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Via Electronic Filing

Florida Public Service Commission
Office of Commission Clerk
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Petition by CSWR-Florida Utility Operating Company, LLC for an Acquisition Adjustment from the Transfer of Facilities of Sunshine Utilities of Central Florida, Inc. and Water Certificate No. 363-W

Dear Commission Clerk:

Attached please find a Petition for an Acquisition Adjustment regarding the transfer of Sunshine Utilities of Central Florida, Inc., filed by CSWR-Florida Utility Operating Company.

Sincerely,

/s/ Thomas A. Crabb

Thomas A. Crabb
Susan F. Clark
Attorneys for Petitioner
CSWR-Florida Utility Operating Company, LLC

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition by CSWR-Florida Utility Operating Company, LLC, For An Acquisition Adjustment From The Transfer Of Facilities Of Sunshine Utilities of Central Florida, Inc And Water Certificate No. 363-W
_____/

Docket No.:_____

PETITION FOR AN ACQUISITION ADJUSTMENT FOR A NON-VIABLE UTILITY

CSWR-Florida Utility Operating Company, LLC ("CSWR-Florida"), pursuant to rule 25-30.0371, Florida Administrative Code, petitions for an acquisition adjustment relating to its 2022 acquisition of the water facilities of Sunshine Utilities of Central Florida, Inc ("Sunshine").

I. PETITIONER INFORMATION

Contact Information for Petitioner:

Name:	CSWR-Florida Utility Operating Company, LLC
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II. INTRODUCTION

The Commission should grant this Petition and establish a positive acquisition adjustment relating to CSWR-Florida's 2022 acquisition of the non-viable Sunshine water systems. Under the Commission's acquisition adjustment rule, 25-30.0371, F.A.C. as amended in 2024, a positive

acquisition adjustment is to be allowed by the Commission when three elements are present: 1) the acquired utility meets the rule definition of a "non-viable" utility; 2) the purchase was made as part of an arms-length transaction; and 3) customers of the acquired utility benefit from the acquisition. CSWR-Florida's acquisition of the Sunshine systems meets and exceeds each of these elements.

The Sunshine water systems were non-viable at the time of acquisition. Among the characteristics of a non-viable utility under the rule is one that is unable to provide and maintain safe, adequate, and reliable service and facilities to its customers. As part of its pre-closing due diligence, CSWR-Florida commissioned a non-affiliated engineering firm to perform a preliminary engineering study for each of the 23 Sunshine water systems. The engineering firm was able to observe the poor quality of system assets, which suggests the systems were nearing the end of their useful lives as a result of age, neglect, or a combination of both. In addition, Sunshine's annual reports to the Commission reveal many years of insufficient investment and inadequate expenditures for repair and maintenance of the systems. Those same annual reports also show that leading up to the acquisition by CSWR-Florida, Sunshine experienced several years of negative net income from utility operations. The cumulative effects of those earnings shortfalls caused the value of the enterprise to decline, as reflected in Sunshine's negative retained earnings, which by 2020 was negative ($335,074).

CSWR's acquisition of the Sunshine systems was an arms-length transaction. CSWR and Sunshine are non-affiliated, independent parties. There was no prior relationship or influence between them.

Customers have clearly benefitted and will continue to benefit from the acquisition of the Sunshine systems by CSWR-Florida. Initial repairs and upgrades to the water systems include replacement or repair of emergency generators, replacement of out of service hydrants, improvements to the electrical system, installation of remote monitoring equipment, and repair or replacement of hydropneumatic tanks that due to age and/or neglect represented a hazard to nearby property and persons. Operations and maintenance personnel have the appropriate qualifications and experience to service the plants. CSWR has implemented technology to monitor the system and a compliance management program. Customer service benefits include a 24/7 call center and electronic communications and billing. Customers further benefit from economies of scale through centralized engineering, accounting, billing, legal and purchasing operations. By rule, the Commission is to allow an acquisition adjustment when customers benefit from the acquisition of a non-viable system. Without question, the customers of the Sunshine systems benefit from this acquisition by CSWR-Florida.

III. RULE 25-30.0371(3)(b), F.A.C., PETITION FILING REQUIREMENTS

1. The amount of the acquisition adjustment requested

CSWR-Florida is requesting a positive acquisition adjustment of $5,751,911, which represents the difference between the purchase price of $6,000,000 and the $248,089 net book value of the systems at the time of acquisition. On March 18, 2022, the Commission issued a Proposed Agency Action Order (PSC-2022-0120-PAA-WU) which established the net book value

of Sunshine's systems at $248,089. Consummating Order No.: PSC-2022-0136-WU was issued on April 11, 2022.

2. The amortization period requested

CSWR-Florida is requesting a 30-year amortization period for the acquisition adjustment requested. CSWR-Florida's proposal for a 30-year amortization period aligns with the average lifespan of a water system. This approach minimizes rate impacts by distributing costs over a 30-year period rather than a shorter time span.

3. An explanation of how the acquisition was made as part of an arms-length transaction

The purchase price and terms of sale were determined through arms-length negotiations between representatives of two non-affiliated and otherwise independent parties: CSWR, LLC, ("CSWR") (acting on behalf of its affiliates Central States Water Resources, Inc., and CSWR-Florida and Sunshine. The parties entered into a *Purchase and Sale Agreement*, dated June 9, 2020, which includes a purchase price of $6,000,000 for the assets used by the seller to provide water service to customers in Marion County. The transaction closed on May 24, 2022.

4. The contract of sale, including the estimated cost of the fees and transaction closing costs to be incurred by the acquiring utility

Attached as **Exhibit 1** is a copy of the *Purchase and Sale Agreement*. The additional fees and transaction closing costs incurred by CSWR-Florida total $73,143.10, broken down on page 2 of the Sunshine Closing Statement, attached as **Exhibit 2**.

5. A calculation of the net book value of the acquired utility including the composite remaining life of the assets purchased

In Order No. PSC-2022-0120-PAA-WU, the Commission determined the net book value of the Sunshine systems was $248,089 as of May 31, 2021. At the time of acquisition, the composite remaining life of the assets purchased was approximately four (4) years. The composite remaining life of the assets was calculated using the utility plant in service ("UPIS") balances at acquisition, alongside the recorded depreciation at that time. To determine the remaining life, the net plant values of individual accounts were divided by the monthly depreciation amount for those accounts. This calculation also considered the average life expectancy of the assets, providing a straightforward assessment of their expected service duration.

6. A statement as to whether the acquired utility is insolvent or unable to service its debt obligations

The facts demonstrate that at the time of the acquisition, Sunshine was insolvent. Annual reports filed by Sunshine Utilities between 2016 and 2020 show several indicia of insolvency. For example, for most of these years Sunshine Utilities recorded negative net income from utility operations, with annual losses ranging from $5,834 to $46,837. Negative net income means the utility is not generating sufficient revenues to cover its operating costs. The value of the enterprise

is reflected in the company's negative retained earnings, which by 2020 was ($335,074). This persistent negative retained earnings trend shows that the company had been operating at a loss for years and lacked the ability to generate sufficient revenue to cover past losses. In addition, Sunshine's deteriorating net utility plant coupled with having no outstanding long-term loans from external lenders shows an inability to attract external capital. Any business that consistently displays these characteristics is financially insolvent.

7. A description of the acquiring utility's managerial, operational, financial, or technical capabilities to furnish and maintain safe and adequate service and facilities over the next 5 years from the date of acquisition

CSWR-Florida is a Florida limited liability company formed to acquire water and wastewater systems in Florida and to operate those systems as a regulated public utility. CSWR-Florida is an affiliate of CSWR, a Missouri limited liability company formed to provide managerial, technical, and financial support to its utility operating affiliates. CSWR's business plan is to pursue the purchase and recapitalization of small water and wastewater systems and to operate those systems as investor-owned regulated utilities. CSWR's business plan and the expertise its personnel provide to affiliates have been approved by regulators in Missouri, Kentucky, Louisiana, Texas, Tennessee, Mississippi, Florida, North Carolina, South Carolina, and Arizona to allow those affiliates to acquire and operate numerous water and wastewater systems in those states. In more than 290 separate orders regulators in each of those states determined our affiliate group has the technical, managerial, and financial qualifications necessary to acquire, own, and operate water and/or wastewater systems. This Commission has made the same determination when it authorized CSWR-Florida to acquire and serve several systems in Florida.

CSWR and CSWR-Florida are part of an affiliate group that currently owns and operates water and wastewater systems serving approximately 434,000 customers. By virtue of that affiliation, CSWR-Florida has the financial, technical, and managerial ability to acquire, own, and operate wastewater systems in a manner that fully complies with applicable health, safety, environmental protection, and regulatory laws and regulations, and to provide reliable, safe, and adequate service to customers.

Since March 2015, CSWR-affiliated companies have, with the approval of state water regulatory authorities, designed, permitted, and completed construction of numerous water systems. These improvements include construction of ground water storage tanks and water pressurization pump assemblies, drilling water wells, erecting or rehabilitating well houses, closing failed wells, blasting/coating water storage tanks, replacing meter pits with new meters, replacing or repairing numerous water distribution lines, installing numerous isolation valve systems, installing a large number of flush hydrants, repairing hundreds of leaking lines, and constructing or rehabilitating various other improvements to existing water systems.

The CSWR group of companies is highly qualified to service small water and wastewater systems based on the number of systems the group has brought into (and kept in) environmental compliance and the experience of our personnel. The affiliate group currently owns and operates more than 940 water and wastewater plants in eleven states. On a daily basis CSWR's utility affiliates treat about 36.5 million gallons of wastewater from almost 100,000 wastewater

connections. Our Louisiana affiliate has removed 240 systems from compliance agreements with the Louisiana Department of Environmental Quality – the fastest timeframe ever for a large group of systems – and we are 100% compliant with environmental compliance agreements entered into with state regulators. These agreements are often necessary because of the extremely distressed nature of many of the systems our group acquires. Our track record of compliance with and removal from these agreements shows our ability to own and operate distressed systems in a manner that complies with applicable laws and regulations, and our ability to provide safe and reliable service to customers.

8. Any notices of violation, consent decrees or other regulatory actions issued by a federal, state, regional, or local agency regarding the provision of the acquired utility's water or wastewater service over the past 5 years from the date of acquisition, including any notices of violation of primary or notices of exceedances of secondary water quality standards

Sunshine is comprised of twenty-three (23) water systems. During the five years prior to their acquisition by CSWR-Florida, these 23 systems had numerous compliance problems. Many issues were recurring and were experienced across multiple facilities, often multiple times, which indicates systemic issues with operations and reporting practices.

The primary types of noncompliance related to monitoring and reporting violations. Ten Sunshine systems were cited for violations related to synthetic organic chemical sampling requirements, 11 facilities were cited for violations related to disinfection byproduct sampling requirements, 6 facilities were cited for violations related to radionuclide sampling requirements, and 1 facility was cited for a violation related to revised total coliform rule sampling requirements. All told, 20 of Sunshine's 23 systems were cited for violations of monitoring and reporting requirements within the five years leading up to CSWR-Florida's acquisition. Properly completing and reporting water sampling is critical because it is the mechanism regulators use and rely on to verify that drinking water is safe for consumers.

Although the numerous citations for failure to comply with monitoring and reporting regulations do not necessarily indicate water provided by Sunshine was unsafe to drink, the requirements are in place to ensure customer safety. A majority of these violations resulted in a Compliance Assistance Offer ("CAO") from the Florida Department of Environmental Protection ("FDEP"). CAOs are an enforcement mechanism FDEP uses to ensure missing sampling is completed. They are an informal enforcement tool that provides a window of time for a utility to correct noncompliance. However, two Sunshine systems had additional noncompliance noted in facility inspections that required corrective action relating to flow meter calibration, repairs to system components, exceedance of permitted capacities, and failure to conduct required tank inspections. One system was subject to a consent order and $1,150 in penalties and costs for three years of disinfection byproduct monitoring and reporting violations. A consent order is a more serious enforcement action used when a CAO fails to achieve compliance or when repeated instances of a violation indicate a lack of effort to comply with requirements.

While the information above summarizes the formal and informal enforcement actions that occurred in the five years prior to CSWR-Florida's acquisition of the Sunshine systems, soon after the acquisition CSWR-Florida invited FDEP to conduct facility inspections to ensure all instances

of noncompliance could be identified and addressed in a cooperative manner with FDEP. The FDEP inspections noted hydropneumatic tanks at three sites that were either actively leaking or patched with temporary patches. CSWR-Florida's actions to address these problems is discussed below in the section of this petition that focuses on improvements planned and completed at each system. The severely deteriorated hydropneumatic tanks CSWR-Florida acquired from Sunshine included one that experienced a catastrophic tank failure (explosion) shortly after closing, which shows Sunshine failed to maintain system components in accordance with FDEP requirements. Indeed, CSWR-Florida identified hydropneumatic tanks at 22 of the 23 Sunshine system sites that did not meet minimum FDEP standards.

Sunshine's history shows a recurring failure to comply with sampling and reporting standards in place to ensure that water delivered is safe for customers. Repeated failures to follow sampling and reporting procedures indicate an inability or unwillingness to responsibly operate drinking water systems in a manner that ensures water consumed by customers is safe.

Below is a table listing the petition exhibits related to noncompliance at the Sunshine drinking water systems in the five years leading up to acquisition by CSWR-Florida. These exhibits document noncompliance and enforcement actions obtained from the FDEP Nexus Information Portal. Sunshine's compliance history with both the FDEP and Federal Safe Drinking Water Information System (SDWIS) note additional instances of noncompliance for which no documentation existed in the database. This information was included in the summary of noncompliance above for the number of systems with various types of monitoring and reporting violations. Some instances of noncompliance were also noted as documented in the FDEP Nexus system which did not appear in the SDWIS system, however a majority of instances of noncompliance noted were represented in the documents found in the Nexus system and included as exhibits.

System	Exhibit Name	Subject
Ashley Heights	Exhibit 3 - Ashely Heights CAO 220310	Ashely Heights CAO for failure to submit reports for synthetic organic chemical (Endothall) testing
Country Walk	Exhibit 4 - Country Walk CAO 220310	Country Walk CAO for failure to submit reports for synthetic organic chemical (Endothall) and late submission of reporting for Radionuclide sampling.
Eleven Oaks	Exhibit 5 - Eleven Oaks CAO 220310	Eleven Oaks CAO for failure to submit reports for synthetic organic chemical (Endothall) testing
Emil-Mar	Exhibit 6 - Emil-Mar CAO 220309	Emil-Mar CAO for failure to submit reports for synthetic organic chemical (Endothall) and late submission of reporting for Radionuclide sampling.

System	Exhibit Name	Subject
Florida Heights	Exhibit 7 - Florida Heights CAO 220310	Florida Heights CAO for failure to submit reports for synthetic organic chemical (Endothall) and late submission of reporting for Radionuclide sampling.
Floyd Creek	Exhibit 8 - Floyd Creek CAO 220310	Floyd Creek CAO for failure to submit reports for synthetic organic chemical (Endothall).
Oak Haven	Exhibit 9 - Oak Haven CAO 220310	Oak Haven CAO for failure to submit reports for synthetic organic chemical (Endothall and Foaming Agent).
Ocklawaha	Exhibit 10 - Ocklawaha CAO 220310	Ocklawaha CAO for failure to submit reports for synthetic organic chemical (Endothall).
Ocklawaha	Exhibit 11 - Ocklawaha Inspection Noncompliance and Response 210217	Email correspondence concerning noncompliance identified during an inspection (nonfunctioning check valve, exceedance of design capacity, flow meter calibration missing)
Ocklawaha	Exhibit 12 - Ocklawaha CAO 191115	Ocklawaha CAO for failure to submit reports for Disinfection Byproduct Monitoring.
Quail Run	Exhibit 13 - Quail Run CAO 220310	Quail Run CAO for failure to submit reports for synthetic organic chemical (Endothall and Foaming Agent).
Whispering Sands	Exhibit 14 - Whispering Sands CAO 220310	Whispering Sands CAO for failure to submit reports for synthetic organic chemical (Endothall).
Belleview Oaks	Exhibit 15 - Belleview Oaks CAO 220310	Belleview Oaks CAO for late submission of reports for sampling of radiological contaminants (radium-228, radium-226, combined uranium, and gross alpha particles excluding radon and uranium).
Fore Oaks	Exhibit 16 - Fore Oaks CAO 220310	Fore Oaks CAO for late submission of reports for sampling of radiological contaminants (radium-228, radium-226, combined uranium, and gross alpha particles excluding radon and uranium).
Oakcrest Villas/Sun Resort	Exhibit 17 - Oakcrest Villas Sun Resort CAO 220310	Oakcrest Villas/Sun Resort CAO for late submission of reports for sampling of radiological contaminants (radium-228, radium-226, combined uranium, and gross alpha particles excluding radon and uranium).

System	Exhibit Name	Subject
Little Lake Weir	Exhibit 18 - Little Lake Weir Public Notice DBP 171219	Little Lake Weir public notice for late submission of reports for Disinfection Byproduct Monitoring.
Ocala Heights	Exhibit 19 - Ocala Heights Public Notice DBP 171219	Ocala Heights 2017 public notice for late submission of reports for Disinfection Byproduct Monitoring.
Ocala Heights	Exhibit 20 - Ocala Heights CAO 191115	Ocala Heights CAO for 2019 failure to submit reports for Disinfection Byproduct Monitoring.
Ocala Heights	Exhibit 21 - Ocala Heights Public Notice DBP 200121	Ocala Heights 2019 public notice for late submission of reports for Disinfection Byproduct Monitoring.
Sandy Acres	Exhibit 22 - Sandy Acres Public Notice DBP 171219	Sandy Acres 2017 public notice for late submission of reports for Disinfection Byproduct Monitoring.
Sun Ray	Exhibit 23 - Sun Ray Public Notice DBP 171219	Sun Ray 2017 public notice for late submission of reports for Disinfection Byproduct Monitoring.
Sun Ray	Exhibit 24 - Sun Ray CAO 191115	Sun Ray CAO for 2019 failure to submit reports for Disinfection Byproduct Monitoring.
Sun Ray	Exhibit 25 - Sun Ray WL 211221	Sun Ray WL (Warning Letter) for 2021 failure to submit reports for Disinfection Byproduct Monitoring.
Sun Ray	Exhibit 26 - Sun Ray CO 220119	Sun Ray CO (Consent Order) with $1,000 penalty for 2017, 2019, and 2021 failure to submit reports for Disinfection Byproduct Monitoring.
Sunlight Acres	Exhibit 27 - Sunlight Acres CAO 200818	Sunlight Acres CAO for inspection with noncompliance for failure to maintain flow meter calibration, hydro tank properly inspected but it was not completed in the required 5 years from installation, note to make sure inspections are completed within statutory timeline in the future.
Winding Waters	Exhibit 28 - Winding Waters Public Notice DBP 171214	Winding Waters 2017 public notice for late submission of reports for Disinfection Byproduct Monitoring.

Attached as **Exhibit 29** is a workbook containing all violations for the Sunshine drinking water systems documented in the EPA SDWIS database in the five years prior to acquisition by CSWR- Florida.

9. The acquired utility's annual capital investments and operations and maintenance expenses over the past 5 years from the date of acquisition, if existing

Sunshine's annual capital investments and operations and maintenance expenses over the 5 years prior to acquisition by CSWR-Florida are summarized in the following table:

Year	Capital Investment	O&M Expenses
2021	$42,342.00	$978,605.00
2020	$80,896.00	$944,780.00
2019	$50,902.00	$967,893.00
2018	$62,384.00	$981,531.00
2017	$99,406.00	$960,069.00

Attached as **Exhibit 30** are the annual reports previously filed with the Commission by Sunshine (2017-2021).

10. Any planned infrastructure additions and maintenance by the acquiring utility to improve the acquired utility's quality of service or compliance with environmental regulations

Each of the 23 Sunshine drinking water systems is a groundwater system that sources water from its own wells. At acquisition, the systems were configured as a pressurized system with one or more hydropneumatic tanks at each site and were disinfecting groundwater with a sodium hypochlorite solution. Most of the systems had a single well, although the Ponderosa Pines and Ocklawaha Water Works systems each had two wells. From each well site water is distributed to customers via distribution systems. At closing, each of the acquired systems had a variety of issues related to the condition of the facilities that needed to be addressed to ensure safe and reliable water service to customers.

The types of rehabilitation and upgrades required at the Sunshine facilities were relatively similar, indicating a consistent pattern of neglect by the previous owner. After closing, CSWR-Florida made initial improvements at every facility. For example, all systems received improvements to their electrical systems. This included installation or replacement of emergency generators, improvements to power supplies and panels, relocation of power services, installation of lighting to enable safe operation in emergency responses after dark, and improvement to site and well head wiring. CSWR-Florida has installed, repaired, or replaced emergency generators at almost every Sunshine site and will complete installations at remaining sites in the near future. Emergency backup power is important to prevent service interruptions at any drinking water facility but is especially important for facilities that rely on hydropneumatic tanks or booster pumps for pressurization.

Prior to acquiring the Sunshine water systems, CSWR-Florida had determined that many of the hydropneumatic tanks were in poor condition and in need of evaluation followed by repair or replacement. Poor maintenance of these tanks by previous ownership was made obvious when

the hydropneumatic tank at the Oakcrest Villas site failed catastrophically and exploded, damaging the site and interrupting service. These sorts of failures are extremely serious because they not only interrupt service but can cause severe damage to property on and around the utility site, thus posing a threat to customers, their property, and persons on or near the site. CSWR-Florida responded immediately to the Oakcrest Villas tank failure and quickly installed three temporary bladder tanks to restore service until a new hydropneumatic tank could be acquired, permitted, and installed.

To prevent similar occurrences, CSWR-Florida has worked to evaluate and repair or replace hydropneumatic tanks at each of the Sunshine sites. This resulted in the replacement of four hydropneumatic tanks to date and replacements or installations of additional tanks planned of 21 of the 23 Sunshine sites. Other existing tanks also will be repaired and recoated at 19 of the 23 sites.

At each of the Sunshine systems CSWR-Florida has implemented improvements to disinfection systems. These include installation of continuous chlorine monitoring to ensure proper disinfection, installation of shade structures over sodium hypochlorite tanks to prevent premature breakdown of chemical and dosage equipment, and installation of proper chemical containment to prevent environmental damage from leaks of sodium hypochlorite solution. In addition, all sites have or will soon undergo evaluation of their wells, and improvements will be made as required. These improvements may involve something as simple as cleanup and recoating of above ground piping, or more comprehensive rehabilitations such as replacement of pumps and motors, redrilling or chemical treatment of the well column, addressing exposed wiring, repairing well casings, installation of new wells, and rehabilitation or proper abandonment of out of service wells.

All water systems are also undergoing distribution system evaluation and improvements to reduce water loss and harden the distribution systems against leaks and breaks leading to service outages. Distribution system improvements, both completed and still planned, include addressing leaks, repairing breaks, replacing substandard material piping (some sections were found to utilize schedule 20 pvc that is not approved for potable water usage), and the addition of flushing hydrants and isolation valves. Above ground piping improvements also have been made at some water production sites. These improvements primarily consist of replacing damaged piping and replacing coatings where they were damaged.

Remote monitoring equipment has also been installed at all sites. This allows operations staff to immediately identify any abnormal operating conditions, which allows for quick responses to minimize and sometimes eliminate service interruptions. Remote monitoring equipment also allows for live recording and tracking of operational data, giving operators a more complete picture of system performance, which allows for better operational control. It also provides information necessary to identify and design system improvements.

All the systems have undergone or are undergoing improvements to general site conditions. These activities include repairs to structures; clearing of vegetation and debris from the site and fence lines; repair, replacement, or installation of fencing; repair or installation of all-weather access equipment; installation of safety equipment; and site grading to address flooding and erosion. In addition, the Ocklawaha Water Works and Oak Haven Quadruplexes systems have improvements planned that include installing sulfur remediation to improve the flavor of water produced.

The following photographs show conditions CSWR-Florida found at the Sunshine systems at the time of acquisition and some of the preliminary improvements that were implemented to address those conditions.

Rust and leaks appearing prior to hydropneumatic tank failure – Oakcrest Villas system

Tank failure and damage to site caused by explosion - Oakcrest Villas system

Temporary tanks installed after closing pending installation of a new hydropneumatic tank – Oakcrest Villas system

New hydropneumatics tank and fencing – Oakcrest Villas system

Before and after Sunshine improvement examples:

Before (Left) & After (Right): Flow Meter Replacement - Asheley Heights system

Before (Left) & After (Right): Chemical containment upgrades - Asheley Heights system.

Before (Left) & After (Right): Disinfection system improvements (shade structure and containment) - Belleview Oaks Estates system.

Before (Left) & After (Right): Disinfection improvements, containment and lighting - Country Walk system.

Before (Left) & After (Right): Chemical containment and shade structure - Emil-Mar system.

Before (Left) & After (Right): New Chemical containment and shade structure - Oakcrest Villas system.

Before (Left) & After (Right): New Chemical containment and shade structure - Ponderosa Pines system.

Before (Left) & After (Right): Hydropneumatic tank replacement (current tank leaking and at risk of failure) - Ashely Heights system.

Before (Left) & After (Right): Hydropneumatic tank replacement - Belleview Oaks Estates system.

Before (Left) & After (Right): Hydropneumatic tank replacement - Country Walk system.

Before (Left) & After (Right): Hydropneumatic tank replacement - Ponderosa Pines system.

Before (Left) & After (Right): Hydropneumatic tank replacement - Winding Waters system.

Before (Left) & After (Right): Electrical Panel Improvements - Eleven Oaks system.

Before (Top Left) & After (Top Right & Bottom): New Electric Panels - Oakcrest Villas system.

Before (Left) & After (Right): Electrical panel improvements - Pondarosa Pines system.

Emergency generator installation - Eleven Oaks system

Emergency generator installation - Ashely Heights system.

New generator - Belleview Oaks Estates system.

New generator - Country Walk system.

New generator - Emil-Mar system.

New generator - Florida Heights system.

New generator and fence - Oakcrest Villas system.

New generator - Ponderosa Pines system.

Remote monitoring unit - Florida Heights system (Note: The same equipment has been installed at all 23 Sunshine systems).

Emergency eye wash station - Ashely Heights system (Note: Similar installations at other systems, as requirea).

New fencing - Emil-Mar system.

New access road - Oakcrest Villas system.

Longer term, CSWR-Florida will make additional improvements and repairs to the systems it acquired from Sunshine. As indicated in the engineering assessments CSWR-Florida commissioned as part of its pre-closing due diligence, preliminary estimates indicate capital investments in excess of $3 million will be required to restore and upgrade the 23 water systems.

11. Any engineering studies or appraisals the acquiring utility procured pertaining to the purchase of the acquired utility

As part of its pre-closing due diligence, CSWR-Florida routinely engages a third-party engineering firm to evaluate the system, identify necessary repairs, upgrades, and improvements, and prepare preliminary estimates of the cost of those repairs, upgrades, and improvements.

Woodard & Curran, an engineering firm located in Lakeland, Florida, prepared the engineering study of the Sunshine systems. Copies of those studies are attached as **Exhibit 31**. No appraisals of the Sunshine systems were obtained as part of CSWR-Florida's acquisition of the system.

12. The 5-year projected impact on the cost of providing service to the customers of the utility system being acquired, including the impact of any operation and maintenance cost savings and economies of scale expected to result from the acquisition transaction, the impact of the cost of any plant infrastructure additions, and the impact of the acquisition adjustment

Sunshine last filed an annual report for 2021. CSWR-Florida acquired the systems from Sunshine on May 24, 2022, so CSWR-Florida's first full year of operating the system was 2023. Attached as **Exhibit 32** is a spreadsheet showing Sunshine's utility operating expenses for 2021 along with CSWR-Florida's utility operating expenses for the last twelve months of actual costs ending in December 31, 2024. The exhibit also includes projected utility operating expenses for the next five years. Accordingly, **Exhibit 32** shows the impact of the acquisition on the cost of providing service to the customers of the system using actual data to the extent it is available and then projections for the remainder of the five years from acquisition.

Economies of scale result when, because of the size of the enterprise, the unit cost of a product or service decreases. Even though they will not always result in reduced annual operating and capital costs when compared to those of Sunshine prior to its acquisition, economies of scale have resulted from CSWR-Florida's acquisition and will continue throughout its ownership. As shown in **Exhibit 32**, following CSWR-Florida's acquisition, annual operating costs have increased compared to those of Sunshine's previous owner. However, these higher costs reflect essential investments in infrastructure, compliance, and service enhancements, all of which support CSWR-Florida's commitment to providing safe and reliable service to customers while also achieving long-term operational efficiencies. The significantly large size of CSWR's affiliate group, especially as compared to a utility like Sunshine operating a single system, enables CSWR-Florida to acquire and provide a host of goods and services at a substantially reduced unit cost. The types and quality of legal, managerial, accounting, engineering, financial, and other services CSWR provides to CSWR-Florida and its out of state affiliates are often not available to small utilities. And when such services are available, they are not available at the low cost CSWR-Florida will pay for such services. Under the cost allocation formula and procedure used by CSWR, CSWR-Florida pays less than 13 percent of the total cost of providing these services.

In addition, because of its relative size and its affiliation with CSWR, CSWR-Florida and its customers get access to technologies and other resources that would either not be available to small standalone systems or would be available but at significantly higher costs. For example, CSWR-affiliated utilities use a computerized, work order-based maintenance management system that uses GPS and RFID technology to create virtual maps and ensure assigned work orders are timely completed. Customers have access to a 24/7/365 call center for questions, billing and payment issues, and emergency service calls. CSWR-affiliated utilities including CSWR-Florida use a cloud-based electronic billing and information portal that gives customers access to use, billing, and payment information.

Since acquiring the Sunshine systems in 2022, CSWR-Florida has made significant plant infrastructure additions to improve compliance and the quality of service to customers and it has many more such additions planned for the future. For details on both completed and planned improvements, please refer to section III.10, above. Additionally, these upgrades are necessary regardless of ownership, as the previous owner would have been required to complete them as well. As a result, the cost increases shown in **Exhibit 32** reflect the essential nature of these upgrades and the associated costs of providing service over the five years following the acquisition, including expenses such as depreciation, which will increase over time as the facility's infrastructure continues to age.

If the Commission grants the $5,751,911 acquisition adjustment requested by this Petition, with a 30-year amortization, the impact of the acquisition adjustment is projected to be two dollars and twenty-four cents ($2.24) per water connection per month. This projection is based on the assumption that the acquisition adjustment would affect rates at a consolidated level for CSWR-Florida, which it intends to propose in its first general rate case to be filed at a later date. CSWR-Florida acknowledges that any future rate increases for the system must be reviewed and approved by the Commission.

CSWR-Florida believes that if the full positive acquisition adjustment is approved, a water rate increase to $48.50 per connection (approximately 119%) is anticipated within 12 months, followed by an increase to $54.24 per connection within 24 months. Without the full acquisition adjustment, the projected water rate increase would be to $46.26 per connection (approximately 109%) within 12 months, followed by an increase to $52.81 per connection within 24 months. Accordingly, if the requested acquisition adjustment is granted in full, the projected impact to water rates is $2.24 per connection per month.

13. An explanation as to how the acquiring utility has greater access to capital than the acquired utility, if applicable

The prior owner's access to capital is unknown. The insolvency and continued losses year after year shown in the annual reports, paired with the history of compliance issues, suggest either an inability or unwillingness to access capital to improve the system for the benefit of customers. CSWR-Florida, through its ultimate parent company CSWR, has access to both debt and equity capital necessary to make required improvements and upgrades to the Sunshine systems, in substantial amounts. CSWR has been able to secure both debt and equity capital necessary to purchase small, oftentimes distressed, water and wastewater systems, make investments necessary to bring those systems into compliance with applicable health, safety, and environmental protection laws and regulations, and also provide working capital necessary to operate the acquired systems until applications for compensatory rates can be prepared and prosecuted.

To date, CSWR has invested through its affiliates, including CSWR-Florida more than $642 million to purchase, upgrade, and operate water and wastewater systems. This includes a capital investment in Florida of more than $71 million. Although CSWR's investment in Florida has to date been exclusively in the form of equity, the company recently secured a $325 million debt facility to balance the capital structure it uses to make the previously described investments. In addition, at the appropriate time (i.e., sometime after the first general rate case) CSWR-Florida

plans to pursue debt financing from non-affiliated commercial sources that would allow it to balance its internal capital structure. In contrast, as reflected in the company's annual reports for various years during the period 2016 through 2020 (see **Exhibit 30**) Sunshine Utilities recorded negative net income. A company in such financial condition cannot easily attract either debt or equity capital necessary to make the level of required investments in its system. Additionally, if Sunshine was able to attract debt, CSWR-Florida believes that Sunshine's low or negative net income, relatively low depreciation expense, and comparatively high amortization means that Sunshine would only be able to incur a maximum of $355,000 of debt. With projected capital expenditures of $3 million to ensure safe and reliable service, this maximum debt ceiling would make it nearly impossible for Sunshine Utilities to have done all of the work necessary to bring the system into working condition.

IV. BASIS FOR GRANTING THE PETITION

CSWR-Florida satisfies each of the three elements required by rule 25-30.0371(3)(a), F.A.C., for an acquisition adjustment to be allowed, as described below.

1. The acquired utility meets the definition of a non-viable utility

As defined in rule 25-30.0371(1)(e), F.A.C., a "non-viable utility" means a utility that meets either of the following subparagraphs:

> 1. A utility that is currently unable or is projected to be unable to provide and maintain safe, adequate, and reliable service and facilities to its customers over the 5-year period following the date of acquisition due to:
> a. Failure to comply with or history of enforcement or compliance actions by federal, state, or local regulatory agencies based on violations of primary or exceedance of secondary water quality standards or other health, safety, and environmental standards; and
> b. Insufficient investment, repair, maintenance of assets or an inability to acquire and maintain adequate managerial, operational, financial, or technical capabilities to ensure safe and reliable service to its customers; or
> 2. A utility that is insolvent, i.e., unable to pay debts.

Sunshine satisfies each of the alternative definitions for a non-viable utility. At the time CSWR-Florida acquired its water systems Sunshine was both "unable or projected to be unable to provide and maintain safe, adequate, and reliable service and facilities to its customers" and was insolvent.

The first indicator of non-viability from the rule is a history of enforcement or compliance actions evidencing a failure to comply with federal, state, or local health, safety, or environmental regulations. Sunshine's history of enforcement and compliance actions are discussed in section III.8. above. The types and pattern of violations during the five-year period immediately preceding the acquisition strongly suggests the same pattern of non-compliance would have continued had CSWR-Florida not acquired the systems.

The second indicator of non-viability from the rule is insufficient investment, repair, and maintenance of system assets or an inability to acquire and maintain adequate managerial, operational, financial, or technical capabilities to ensure safe and reliable service to customers. Sunshine exhibited these deficiencies prior to the sale of the system to CSWR-Florida. Sunshine's annual reports reveal several indicia of insolvency during this period, including negative net income from utility operations, with annual losses ranging from $5,834 to $46,837 in 2018. Negative net income means the utility is not generating sufficient revenues to cover its operating costs. The value of the enterprise is reflected in the company's negative retained earnings, which by 2020 had reached negative ($335,074). This persistent negative retained earnings trend may explain the company's inability to invest adequately in its system assets or to acquire and maintain the necessary capabilities to ensure safe and reliable service to customers.

As detailed in the independent engineering assessment CSWR-Florida commissioned as part of its pre-closing due diligence, at the time of their acquisition each of Sunshine's 23 water systems was in very poor condition. The study was unable to determine the age of most of the systems' assets, which suggests they likely were at or near the end of their useful operating lives. Hydropneumatic water tanks at each system were in such a state of disrepair and neglect that all had to be replaced or extensively rehabilitated after closing. Indeed, the deteriorated state of the Oakcrest Villas system caused the tank to explode soon after closing. Sunshine's previous owners either didn't attempt to maintain and repair the water systems' equipment or their attempts were so inadequate that they failed to address the deteriorating condition of the facilities. The overall deteriorated condition put each of Sunshine's systems at continuous risk of catastrophic failure, which would cause service interruption to customers and result in significant environmental impact.

The inadequacy of Sunshine's operational management prior to acquisition is apparent from the relevant facts. Sunshine operated the system in a such a technically deficient manner that it received numerous citations from FDEP for violations of regulations designed to ensure drinking water is safe for customers. These and other management failures, including failure to replace, repair, and maintain equipment, provided a level of customer service that was neither safe nor adequate.

Finally, with respect to the second of the two alternative definitions of non-viability as specified in rule 25-30.0371(1)(e)(1)b.2., F.A.C. ("[a] utility that is insolvent, i.e., unable to pay debts") CSWR-Florida believes that at the time of its acquisition Sunshine was insolvent. Annual reports filed by Sunshine between 2016 and 2020 show several indicia of insolvency. For example, for most of these years Sunshine Utilities recorded negative net income from utility operations, with annual losses ranging from $5,834 to $46,837 in 2018. Negative net income means the utility is not generating sufficient revenues to cover its operating costs. The value of the enterprise is reflected in the company's negative retained earnings, which by 2020 was negative ($335,074). This persistent negative retained earnings trend shows that the company had been operating at a loss for years and lacked the ability to generate sufficient revenue to cover past losses. Furthermore, the Company's deteriorating net utility plant coupled with the fact that Sunshine Utilities had no outstanding long-term loans from external lenders and instead had a financial structure consisting of short term loans from related parties shows an inability to attract external capital. Any business that consistently displays these characteristics is financially insolvent.

2. CSWR-Florida purchase of the Sunshine water systems was part of an arms-length transaction

The purchase price and terms of sale were determined through arms-length negotiations between representatives of two non-affiliated and otherwise wholly independent parties: CSWR (acting on behalf of its affiliates Central States Water Resources, Inc., and CSWR-Florida and Sunshine. The parties entered into a *Purchase and Sale Agreement*, dated June 9, 2020, which includes a purchase price of $6,000,000 for all assets used by the seller to provide water service to customers in Marion County.

3. Customers of the former Sunshine water systems have benefitted and will continue to benefit from the acquisition of the system by CSWR-Florida.

Rule 25-30.0371(3)(a), F.A.C., identifies six (6) factors the Commission is to consider in determining whether customers of the acquired utility benefit from the acquisition. The application of these factors show the benefit to customers of the former Sunshine systems from the CSWR-Florida acquisition.

A. Anticipated improvements in quality of service

Since the acquisition by CSWR-Florida, there have been significant improvements in the quality of service, including the following, all of which benefit customers:

- Reduced risk of system failures. Customers have benefitted, and will continue to benefit, from CSWR-Florida's significant investments in infrastructure upgrades and preventative maintenance programs that reduce the risk of catastrophic system failures and service that fails to meet customer needs and expectations. These improvements ensure safer, more reliable water systems, minimizing disruptions and protecting public health and the environment.

- Appropriate staffing levels, by highly-qualified O&M personnel. CSWR-Florida uses a highly trained and experienced third-party contractor to perform day-to-day operations and maintenance functions. The contractor's personnel must have and maintain all required state licenses and must perform services in accordance with standards prescribed by CSWR-Florida. These services include, but are not limited to, making a minimum of three weekly site visits, performing weekly inspections of the facilities' components, completing all routinely scheduled work orders, preparing and filing necessary reports with regulatory agencies to ensure ongoing compliance, and ensuring personnel are on-call 24/7 in case of any emergencies.

- Faster work order processing through technology. Operations and maintenance personnel will use cost-effective technologies to help improve service quality while minimizing costs. These technologies include a computerized, work order-based maintenance management system that uses GPS and RFID technology to ensure assigned work orders are timely completed. These off-the-shelf technologies are used

by all CSWR-affiliated utilities, which allows CSWR-Florida to benefit from economies of scale not available to a single system like Sunshine.

- Remote system monitoring. Implementation of remote monitoring technology that allows operators to continually monitor performance of system components. This allows operators to identify and remedy malfunctions before they adversely affect customer service.

- Better regulatory and permit compliance information, in real time. Implementation and use of an Environmental Management Information System that systematically obtains, processes, and makes available environmental information necessary to ensure the system complies with applicable law and permit limits.

- Better and faster system information to customers. CSWR-Florida employs a proactive communications strategy that enhances the quality and substance of information customers regularly receive about their system. This effort includes multiple communications devices – such as periodic letters or postcards, incorporating QR codes on bills for periodic updates, and a Florida-specific website – to keep customers informed regarding system operations and planned and completed system improvements.

- 24/7/365 call center for customers. Use of a well-staffed, centralized third-party call center that provides customers round-the-clock access to systems or personnel who can answer questions, deal with billing and payment issues, and receive emergency service calls. This call center is used by all CSWR-affiliated utilities, which allows CSWR-Florida to benefit from economies of scale not available to a small system like Sunshine on a stand-alone basis.

- Electronic billing and information portal. Use of a cloud-based customer information and billing system (Muni-Link) that affords customers the ability to use electronic billing, online payment and bill processing, work-order management, and access to a portal providing customer-specific usage, billing, and payment information. This system is also used by all CSWR-affiliated utilities, thus allowing CSWR-Florida to benefit from associated economies of scale.

- Customer service response monitoring. Use of a system that tracks key customer service metrics allowing CSWR's affiliated utilities to quickly identify and remedy problems in key metrics such as speed of answer, dropped or abandoned calls, and the time spent with a customer service representative. The system also employs a voluntary survey to gauge customer satisfaction following each customer service call.

B. Anticipated improvements in compliance with water or wastewater regulatory requirements

As demonstrated by CSWR's extensive track record around the country and CSWR-Florida's specific plans for the former Sunshine water systems, customers have experienced and

can continue to anticipate substantial improvements in compliance with regulatory requirements. Based on the number of systems it owns, the number of systems it has purchased and brought into (and kept in) environmental compliance, and the experience of its personnel in rehabilitating distressed small water utilities, CSWR is highly qualified, if not the most qualified utility in the United States, to bring the former Sunshine systems into regulatory compliance. The CSWR group currently owns and operates more than 940 water and wastewater plants in eleven states. Since March 2015, CSWR-affiliated companies have, with the approval of the state water regulatory authorities, designed, permitted, and completed construction of numerous water system improvements. These include pressurization pump assemblies, drilling water wells, erecting or rehabilitating well houses, closing failed wells, blasting/coating water storage tanks, replacing meter pits with new meters, replacing or repairing numerous water distribution lines, installing numerous isolation valve systems, installing a large number of flush hydrants, repairing hundreds of leaking lines, and constructing or rehabilitating various other improvements to existing drinking water systems.

Some systems the CSWR affiliate group acquires are in receivership because their owners, like the previous owners of the Sunshine systems, were unable or unwilling to maintain their systems. CSWR's business plan has been and continues to be making investments in and taking the risks necessary to bring small water systems into compliance with current statutes, rules, and regulations. Through its affiliates, like CSWR-Florida, CSWR has been able to acquire distressed, troubled, and/or undercapitalized systems, invest capital necessary to upgrade or repair physical facilities, and operate those systems in a way that satisfies customers, regulators, and investors alike.

As evidence of its capabilities, regulators in Missouri, Texas, Mississippi, Arizona, and Louisiana have asked CSWR and its utility affiliates to assume emergency operational responsibilities for distressed wastewater systems in those states. For example, in Texas CSWR-Texas acts as an emergency manager trusted by the Texas Public Utility Commission to take over some of the state's most troubled utilities. In Louisiana, CSWR was named as the first emergency manager for a water system by the Louisiana Department of Health, in addition to taking over more than a hundred systems pursuant to a Louisiana Department of Environmental Quality agreed Order addressing serious, ongoing environmental compliance issues. In Arkansas and Kentucky, environmental regulators requested CSWR's state affiliates to take over several distressed utilities. And in December 2021, the Arizona Corporation Commission authorized a CSWR affiliate to acquire distressed utilities, and approved incentives (including the opportunity to recover all or a significant portion of the difference between purchase price and net book value of acquired assets) for those acquisitions.

State regulators have expressly recognized and praised these efforts. In Missouri, both the Missouri Public Service Commission and the Missouri Department of Natural Resources ("MDNR") have recognized the solid track record of CSWR and its affiliates for acquiring, rehabilitating, maintaining, and operating troubled water and wastewater systems. In its Order approving one of the Missouri affiliate's acquisitions, the Missouri Commission noted that affiliate's "sound track record in rehabilitating similarly situated [i.e. troubled] systems" and its "ability to acquire, maintain, and operate the systems . . . to ensure safe and adequate service." In a June 2023 letter from the MDNR, that same affiliate was praised for its

> willingness to acquire systems with long-standing compliance issues [that] has proven to be beneficial to human health and the environment by bringing many of these systems into compliance with environmental laws. The Department looks forward to continuing to work with [the Missouri affiliate] as it continues to acquire wastewater and public water systems in Missouri, in furtherance of the Department's initiative to encourage regionalization and consolidation of the many private systems in Missouri that are struggling to achieve compliance with laws for the protection of public health and the environment.

Similar sentiments were expressed by the Mississippi State Department of Health in a March 14, 2023, letter to Mississippi Public Service Commissioner Brent Bailey. In that letter, the Department of Health stated:

> As you may be aware, Great River Utility Company [CSWR's Mississippi affiliate] has recently acquired several drinking water systems across the state. Great River Utility has worked closely with the [Bureau of Public Water Supply's] compliance and field staff to maintain compliance with the various rules and regulations of the Safe Drinking Water Act. A viable entity such as Great River Utility desiring to help problematic drinking water systems by investing in them for improved services to citizens is very appreciated and supported by the Bureau.

CSWR and CSWR-Florida will bring this same level of commitment to the required renovation of the Sunshine systems.

C. Anticipated impacts on the cost of providing service over the next 5 years from the date of acquisition

Please see section III.12. above for the anticipated impact on the cost of providing service over the next 5 years from the date of acquisition.

D. Anticipated cost efficiencies, including any economies of scale

Because of its significantly larger size, CSWR, on behalf of its affiliated utilities, can achieve economies of scale – i.e., lower unit costs for many goods and services necessary to operate a system – than are available to a small utility like Sunshine on a stand-alone basis. These include services such as engineering, accounting, billing, legal, business planning, and operations management. Many of these services are rendered by employees of CSWR, whose costs are allocated to CSWR-Florida and its affiliates according to a Cost Allocation Manual. In addition, the size of the CSWR affiliate group allows it to purchase equipment and supplies in larger quantities, which allows the group to take advantage of vendor discounts available to large and repeat customers. Please also see section III.12. of the Petition Filing Requirements above for more information relating to economies of scale.

Being part of a large, affiliated group of utilities also allows CSWR-Florida to reap the benefits of operational efficiencies achievable through investments in technology and the

involvement of experienced and well qualified personnel in daily utility and back office activities. None of these efficiencies would be available to a small utility like Sunshine on a stand-alone basis.

E. Ability to attract capital at reasonable cost

The ability of CSWR and CSWR-Florida to attract capital at reasonable cost as outlined in section III.13. of the Petition Filing Requirements, ensures the necessary resources are available to make critical system improvements and upgrades. By securing a $325 million debt facility and strategically balancing its capital structure, CSWR has demonstrated its ability to provide funding for infrastructure investments while maintaining financial prudence. This approach benefits customers by enabling compliance with health, safety, and environmental regulations, ensuring reliable service, and promoting long-term system sustainability, all while mitigating the financial risks associated with distressed water and wastewater systems like Sunshine Utilities, which appears to have historically struggled to attract capital due to persistent negative net income.

F. The professional and experienced managerial, financial, technical, and operational resources of the acquiring utility

The experience and expertise of CSWR's and CSWR-Florida's personnel regarding the technical and managerial of owning and operating a water utility are described in section III.7 of the Petition Filing Requirements above and the financial capabilities are described in section III.13.

V. NOTICE OF THE PETITION

Pursuant to rule 25-30.0371(8), F.A.C., attached as **Exhibit 33** is a draft notice for review by Commission staff. Once staff has approved the notice, CSWR-Florida will provide the notice as provided by the rule and file proof of noticing.

WHEREFORE, CSWR-Florida UOC requests that the Commission grant this Petition and an acquisition adjustment of $5,751,911 to be amortized over 30 years.

Respectfully submitted this 18th day of March, 2025.

/s/ Thomas A. Crabb
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EXHIBIT 1

PURCHASE AND SALE AGREEMENT

THIS PURCHASE AND SALE AGREEMENT (*"Agreement"*) is made as of the 9th day of June, 2020 by and between CENTRAL STATES WATER RESOURCES, INC., a Missouri corporation, (*"Buyer"*), and SUNSHINE UTILITIES OF CENTRAL FLORIDA, INC., a Florida corporation, qualified and registered to transact business in the State of Florida (*"Seller"*).

ARTICLE I
ACQUISITION OF THE PROPERTY

Section 1.01 The Property. Subject to the terms and provisions of this Agreement, Seller agrees to sell to Buyer, and Buyer agrees to purchase from Seller, all of the following described property (the *"Property"*):

(a) All immovable property, including all right, title and interest therein, described in EXHIBIT A, to be attached hereto prior to the conclusion of the Feasibility Period (as hereafter defined) and made a part hereof, including but not limited to any mineral and other subsurface rights, together with all buildings and improvements located thereon, and all appurtenant rights relating thereto, including, but not limited to, warranties and guaranties, access easements and other easements and rights relating thereto, access to utilities, rights of way and similar rights located on or within or relating to any of the foregoing (collectively, the "*Immovable Property*");

(b) All movable property and intangible property used in connection with the ownership and/or operation of the Immovable Property, including, but not limited to, all such property described in EXHIBIT B, to be attached hereto prior to the conclusion of the Feasibility Period (as hereafter defined) and made a part hereof (collectively, the "*Movable Property*");

(c) All of Seller's right, title, and interest in and to the area that the System (as defined below) services (the "*Service Area*"), as determined by Buyer and set forth in EXHIBIT C, to be attached hereto prior to the Closing (as hereinafter defined) and made a part hereof, including but not limited to, all real property interests such as easements, rights of way, permits and leases related to the System, and including any and all water facilities, equipment, lines, plants, pipes, manholes, meters, lift or pump stations and appurtenances; and

(d) All property or rights of whatever nature and kind that Seller owns which in any way is used or is useful in the operation of a water utility system located in Marion County, Florida (the "*System*").

(e) Notwithstanding anything else contained herein, the following are specifically not included in the sale of the property: (1) All vehicles, tools, non-stationary/non-permanently affixed equipment, office leases, office furniture, fixtures and equipment, computers, copiers, burster, telephones, cellular telephones, telephone systems, software and records; (2) Any right, title or interest in any other water system operated in other counties besides Marion County, Florida and the equipment, property or anything else used in the operation of such system; and (3) All other real property or interest in real property owned by Seller that is not utilized in the operation of the System.

Section 1.02 Purchase Price.

(a) The purchase price (the *"Purchase Price"*) for the Property shall be **Six Million and 00/100 Dollars ($6,000,000.00)**. The reasonable allocation of the Purchase Price between the categories in Sections 1.01(a) and 1.01(b) of the Property shall be set forth in EXHIBIT D prior to the Closing.

(b) The Purchase Price less any Earnest Money shall be payable in cash at Closing by wired funds and shall be paid by Buyer to Seller (to the account notified by Seller to Buyer prior to the Closing Date) on the Closing Date as defined in Section 4.01.

Section 1.03 Earnest Money. Within fifteen (15) days after the Effective Date (as defined below), Buyer shall deposit with a title company of its choice (the *"Title Company"*) the sum of **One Thousand and 00/100 Dollars ($1,000.00)** as the earnest money under this Agreement (the "*Earnest Money*"). The Earnest Money shall be returned to Buyer or paid to Seller in accordance with the terms and conditions of this Agreement.

Section 1.04 Termination Reimbursement. If Buyer terminates this Agreement for any reason, Seller shall be entitled to a reimbursement from Buyer for all attorneys' fees and other costs that it has incurred arising out of the preparation and compliance with this Agreement up to a total maximum amount of Twenty Thousand Dollars ($20,000.00). Within twenty (20) days of Buyer terminating this Agreement, Seller shall submit supporting documents setting forth the costs that it is entitled to receive reimbursement from Buyer, and Buyer shall tender payment for the same to Seller within twenty (20) days of receipt of said supporting documents.

ARTICLE II
SURVEY AND TITLE REVIEW

Section 2.01 Survey. Buyer shall have the right, for its own benefit, to procure one or more ALTA surveys of the Immovable Property, subject to Section 2.03 (the *"Survey"*). The Survey shall be current, staked, and shall be made on-the-ground and signed, sealed, and certified in favor of Buyer and Seller by a duly licensed surveyor selected or approved by Buyer and receipt of the Survey by Buyer prior to Closing, subject to Section 2.03, is a condition to Closing. The cost of the Survey shall be borne by the Buyer.

Section 2.02 Title Insurance. The Buyer shall, within fifteen (15) days after the Effective Date, order and must receive prior to the Closing, subject to Section 2.03, as a condition to Closing, a commitment for title insurance and complete, legible copies of all exception documents (the "*Title Commitment*") issued by the Title Company covering the Immovable Property, binding the Title Company to issue to Buyer at Closing an owner's policy of title insurance paid for by Buyer (the "*Title Policy*") on the standard form of policy in the amount specified by Buyer insuring good, merchantable, and insurable fee simple title to the Immovable Property in Buyer, free and clear of all restrictions, easements, encumbrances, mortgages, liens, claims and other matters except any Permitted Exceptions as defined in Section 2.03. Notwithstanding Buyer's Review rights, Buyer acknowledges and agrees that use of right of ways and non-specifically granted easements and access will not be insured and the same is a Permitted Exception.

Section 2.03 Buyer's Review. Buyer shall have until thirty (30) days prior to the expiration of the Feasibility Period to examine the Title Commitment and the Survey, and to deliver to Seller in writing Buyer's objections to any items contained or set forth in the Title Commitment or the Survey (the "*Unacceptable Exceptions*"). If Seller is unable or unwilling to eliminate and remove all of the Unacceptable Exceptions, then within fifteen (15) days after receipt of Buyer's written notice, Seller shall notify Buyer in writing of its inability or unwillingness to remove the Unacceptable Exceptions (and such notice shall set forth which Unacceptable Exceptions that Seller is unable or unwilling to remove) and Buyer may terminate this Agreement by giving written notice of such election delivered to Seller. If Buyer so terminates this Agreement, the Earnest Money shall be promptly returned to Buyer, after which neither Party shall have any further rights, duties or obligations hereunder, except as expressly provided in this Agreement to the contrary. If Buyer does not so terminate this Agreement after receiving Seller's written notice, then the Unacceptable Exceptions together with other exceptions not objected to by Buyer shall become Permitted Exceptions (the "*Permitted Exceptions*").

Section 2.04 Feasibility Period.

(a) Seller shall allow Buyer and its agents, employees, contractors, and consultants access to the Property to conduct soil and engineering tests, inspections of equipment, personal property, lines and other components of the System and to conduct any other tests Buyer deems necessary or appropriate in its sole and absolute discretion to determine the feasibility of the Property for Buyer's intended use (the "*Feasibility Study*"), for a period of **one hundred eighty (180) days** after the Effective Date (the "*Feasibility Period*"). Buyer shall bear all costs and expenses of its investigation and restore the Property to its condition prior to such investigation, ordinary wear and tear excepted.

(b) If Buyer finds the Property unacceptable for any reason or no reason, then Buyer, in its sole and absolute discretion, may terminate this Agreement by written notice to Seller on or before the expiration of the Feasibility Period. If Buyer so terminates this Agreement, the Title Company shall, upon demand by Buyer, promptly return the Earnest Money to Buyer.

(c) Seller shall deliver to Buyer within ten (10) business days after the Effective Date of this Agreement, the most recent title commitments, title policies, surveys, environmental site assessments, preliminary plats and site plans, any cross access and easement documents in connection with the Property, any development agreements affecting the Property, lease agreements affecting the Property, any customer lists for the System and any other documents Buyer may reasonably request related to the Property and/or the System.

Section 2.05 Other Termination Rights. In addition to any other rights and remedies set out herein (including but not limited to the termination rights in Sections 2.03, 2.04, 3.02(b) and 5.02), the Buyer shall have the right to terminate this Agreement as set out below:

(a) At any time up to and including the Closing Date if the regulatory bodies required to approve the sale of the System and the Property to the Buyer have not fully and unconditionally approved the sale upon the terms set out herein. In Buyer's sole and absolute discretion, Buyer may terminate this Agreement if the necessary regulatory approvals are not fully and unconditionally granted to Buyer in a form satisfactory to Buyer (as determined in Buyer's sole and absolute discretion) prior to the Closing by giving written notification of such termination to Seller, and upon such termination the Buyer shall receive a prompt return of the Earnest Money. Buyer however must cooperate with the application to the regulatory bodies and must submit an application for approval of the sale with the required regulatory bodies within a reasonable period of time after the Effective Date of the Agreement.

(b) In the event that, prior to the Closing, all or any portion of the Property is taken, condemned, expropriated, or made the subject of any eminent domain proceedings, or any of the foregoing is threatened (interchangeably, a "*Taking*"), Buyer may elect to either move to Closing and receive any Taking proceeds, plus an assignment of Seller's right, title, and interest thereto and claim therefor, as full satisfaction for the Taking, or Buyer may terminate this Agreement. Buyer shall notify Seller as to which option it elects within five (5) days prior to the Closing. If Buyer does not receive written notice of a Taking more than five (5) days prior to the Closing, the Closing Date shall be postponed to a date that is not less than five (5) days after Buyer's receipt of written notice of a Taking.

Section 2.06. Effect of Termination. Subject to Article V and Section 7.17, upon the termination of this Agreement, the Title Company shall pay the Earnest Money to the appropriate party in accordance with the terms and conditions of this Agreement, and upon such payment being made the parties shall have no further liability hereunder (except with respect to liabilities of Seller accruing prior to such termination and those obligations hereunder which survive the termination of this Agreement).

Section 2.07. Updates of Title. If Closing is scheduled to occur more than thirty (30) days from the date of the Title Commitment, the Title Commitment shall be updated by endorsement ("**Update Endorsement**") which endorsement, together with legible copies of any additional matters identified therein, shall be delivered to Buyer no less than five (5) days before the respective Closing Date. If any Update Endorsement discloses any new requirement, defect, encumbrance or other adverse matter that is not a Permitted Exception, then Buyer shall notify Seller in writing specifying the new title defect. Seller shall have a period of thirty (30) days following the receipt of such notice from Buyer to cure such new title defect and, if necessary, the Closing Date shall be extended as provided above. Seller agrees to use diligent, good faith efforts to attempt to remove the new title defect, as provided above. If Seller fails to cure any such new title defect Buyer shall have the right to terminate this Agreement.

Section 2.08 Indemnification related to Feasibility Study: Buyer hereby agrees to indemnify Seller and hold Seller harmless against all claims, demands and liability, including attorneys' fees, for nonpayment for services rendered to Buyer, for mechanics' liens, or for damage to persons or property arising out of Buyer's inspection of the Property. Notwithstanding anything to the contrary set forth in this Agreement, the indemnification and agreement to hold harmless set forth in this Paragraph shall survive the Closing or the earlier termination of this Agreement as expressly provided herein.

ARTICLE III
REPRESENTATIONS, WARRANTIES AND COVENANTS

Section 3.01 Representations, Warranties and Covenants of Seller. Seller hereby represents and warrants to Buyer that the facts recited below are true, complete and accurate as of the date hereof and will continue to be true, complete and accurate at Closing:

(a) Seller is a corporation, duly formed and in good standing under the laws of the State of Florida, is qualified to conduct business in the State of Florida and has the requisite power and authority to enter into and to perform the terms of this Agreement without obtaining any further consents or approvals from, or the taking of any other actions with respect to, any third parties. Seller is not subject to any law, order, decree, restriction or agreement that prohibits or would be violated by this Agreement or the consummation of the transactions contemplated hereby. The execution and delivery of this Agreement and the consummation of the transaction contemplated hereby have been duly authorized by all requisite action of Seller. This Agreement constitutes, and each document and instrument contemplated hereby to be created and delivered by Seller, when executed and delivered, shall constitute the legal, valid, and binding obligation by Seller, enforceable against Seller in accordance with its respective terms (subject to bankruptcy, reorganization and other similar laws affecting the enforcement of creditors' rights generally).

(b) Neither the execution, delivery and performance of this Agreement, nor the consummation of the transactions contemplated hereby is prohibited by, or requires Seller to obtain any consent, authorization, approval or registration under any law, statute, rule, regulation, judgment, order, writ, injunction or decree which is binding upon Seller, other than any regulatory approvals disclosed in writing to Buyer.

(c) Seller has and will have at Closing good, merchantable, and insurable title, in fee simple, to the Property, free and clear of all mortgages, liens, claims, or other encumbrances (except those required by the Title Company in the Title Commitment to be fully satisfied with the Purchase Price at the Closing). Said title however may be subject to the Permitted Exceptions.

(d) To be best of Seller's Knowledge there are no pending or threatened condemnation, liens, claims, other encumbrances, special assessments, or similar proceedings or charges affecting the Property or Seller by any governmental authority.

(e) Seller is not a foreign corporation, foreign partnership, foreign trust, or foreign estate, or non-resident alien for purposes of US income taxation, pursuant to Section 1445 of the Internal Revenue Code.

(f) Seller has not: (i) filed any voluntary or had involuntarily filed against it in any court or with any governmental body pursuant to any statute either of the United States or of any State, a petition in bankruptcy or insolvency or seeking to effect any plan or other arrangement with creditors, or seeking the appointment of a receiver; (ii) had a receiver, conservator or liquidating agent or similar person appointed for all or a substantial portion of its assets; (iii) suffered the attachment or other judicial seizure of all, or substantially all of its assets; (iv) given notice to any person or governmental body of insolvency; or (v) made an assignment for the benefit of its creditors or taken any other similar action for the protection or benefit of its creditors. Seller is not insolvent and will not be rendered insolvent by the performance of its obligations under this Agreement.

(g) There are no leases affecting any portion of the Property except such leases disclosed to Buyer in writing by Seller and there are no options, rights of first refusal or contracts granting any rights to acquire any right, title or interest in any portion of the Property, except as listed in the Title Commitment, if any.

(h) Seller has not received any notice of any violation of any ordinance, regulation, law or statute of any government agency or instrumentality pertaining to the Property and/or the System or any portion thereof which has not been complied with in all respects.

(i) There is no action, suit, proceeding or claim affecting Seller, the Property and/or the System, relating to or arising out of any lease, option or contract affecting the Property or the System, or the ownership, operation, use or occupancy of the Property or the System, pending or being prosecuted in any court or by or before any agency or

other governmental instrumentality nor, to the best of Seller's Knowledge, has any such action, suit, proceeding or claim been threatened or asserted. There is no proceeding pending or presently being prosecuted in connection with the assessed valuation or taxes of other impositions payable in respect of any portion of the Property. Seller is engaged in litigation involving a lease/easement and title to real property in Citrus County, Florida involving a system of the Seller located in Citrus County, Florida. This action shall not be a proper matter for Buyer to object to performance of the Seller or the closing of this transaction nor relieve the Buyer from performance hereunder.

(j) No work has been performed or is in progress at, and no materials have been furnished to, the Property which might give rise to mechanic's, materialman's or other liens against the Property.

(k) The Property currently has or will have at Seller's sole cost and expense prior to the Closing cross access and easements rights and benefits providing pedestrian and vehicular access to and from the Property and all components within the System necessary to operate the same.

(l) The buildings and improvements, if any, that constitute part of the Immovable Property are structurally sound and there are no defects known to Seller that have not been disclosed to the Buyer in writing by Seller. Seller hereby informs that the tanks for the Lake Weir Pines systems are defective and need replacement and those systems are being run on temporary tanks. By its execution hereunder, Buyer acknowledges and accepts the same agreeing to close the transaction with this defect.

(m) To the best of Seller's Knowledge, there are no pending or contemplated zoning changes, variances, special zoning exceptions, conditions or agreements affecting, or potentially affecting the Property or any part thereof.

(n) Except as has been disclosed to Seller in writing by Buyer, the Property complies with all applicable laws of all governmental or quasi-governmental authorities having jurisdiction over, against or affecting the Property. Seller has not received written notice of any, and there are no violations of any laws, similar rules and regulations relating and/or applicable to the ownership, use and operation of the Property as it is now operated, and/or other licenses or permits, which remain uncured. All governmental or quasi-governmental occupancy and use permits, licenses, consents, approvals, permits, authorizations, certificates, and other requirements of the authorities necessary or required for the continued use and operation of the System and/or the Property for the purposes for which the same are intended (collectively, "*Approvals*"), if any, have been unconditionally and finally issued and paid for and are in full force and effect in accordance with the respective terms thereof. All work or conditions required to be performed or fulfilled pursuant to the Approvals (on or off-site) have been fully performed in accordance with the requirements thereof and the Property fully complies with the Approvals.

(o) To the best of Seller's Knowledge, there is no fact or condition which materially and adversely affects the business, operations, affairs, properties or condition of Seller or the Property, which has not been set forth in this Agreement or in the other documents, certificates or written statements furnished to Buyer in connection with the transactions contemplated hereby.

(p) To the best of Seller's Knowledge, no representation or warranty made by Seller in this Agreement, in any Exhibit attached hereto, or in any letter or certificate furnished to Buyer pursuant to the terms hereof, each of which is incorporated herein by reference and made a part hereof, contains any untrue statement of a fact or omits to state a fact necessary to make the statements contained herein or therein not misleading.

(q) Environmental Matters.

(i) Except as disclosed on the attached EXHIBIT E, to be attached hereto at least thirty (30) days prior to the conclusion of the Feasibility Period and made a part hereof, to the best of Seller's Knowledge, the Property is currently and has been in compliance with all Environmental Laws (as defined below) and Seller has not received any: (i) Environmental Notice (as defined below) or Environmental Claim (as defined below); or (ii) written request for information pursuant to Environmental Law, which, in each case, either remains pending or unresolved, or is the source of ongoing obligations or requirements as of the Closing.

(ii) Except as disclosed on the attached EXHIBIT F, to be attached hereto at least thirty (30) days prior to the conclusion of the Feasibility Period and made a part hereof, to the best of Seller's Knowledge, Seller has obtained and is in material compliance with all Environmental Permits (as defined below) (each of which is disclosed on EXHIBIT F) necessary for operating the System or use of the Property and all such Environmental Permits are in full force and effect and shall be maintained in full force and effect by Seller through the Closing in accordance with Environmental Law, and Seller is not aware of any condition, event or circumstance that might prevent or impede, after the Closing, the operation of the System as currently conducted or the ownership, lease, operation or use of the Property. With respect to any such Environmental Permits, Seller has undertaken, or will undertake prior to the Closing, all measures necessary to facilitate transferability of the same, and Seller is not aware of any condition, event or circumstance that might prevent or impede the transferability of the same and has not received any Environmental Notice or written communication regarding any material adverse change in the status or terms and conditions of the same.

(iii) None of the Property is listed on, or to the best of Seller's Knowledge, has been proposed for listing on, the National Priorities List (or CERCLIS) under CERCLA (as defined below), or any similar state list.

(iv) To the best of Seller's Knowledge, there has been no Release of Hazardous Materials (as defined below) in contravention of Environmental Law with respect to the Property or any real property currently or formerly owned, leased or operated by Seller in connection with the System, and Seller has not received an Environmental Notice that any of the Property or real property currently or formerly owned, leased or operated by Seller in connection with the System (including soils, groundwater, surface water, buildings and other structure located thereon) has been contaminated with any Hazardous Material which could reasonably be expected to result in an Environmental Claim against, or a violation of Environmental Law or term of any Environmental Permit by, Seller.

(v) To the best of Seller's Knowledge, no underground storage tanks are located on the Immovable Property and no construction debris has been buried on or under the Immovable Property.

(vi) EXHIBIT G, to be attached hereto at least thirty (30) days prior to the conclusion of the Feasibility Period and made a part hereof, contains a complete and accurate list of all off-site Hazardous Materials treatment, storage, or disposal facilities or locations used by Seller and, to the best of Seller's Knowledge, any predecessors in connection with the System or the Property as to which Seller may retain liability, and none of these facilities or locations has been placed or proposed for placement on the National Priorities List (or CERCLIS) under CERCLA, or any similar state list, and Seller has not received any Environmental Notice regarding potential liabilities with respect to such off-site Hazardous Materials treatment, storage, or disposal facilities or locations used by Seller.

(vii) Seller has not retained or assumed, by contract or operation of Law, any liabilities or obligations of third parties under Environmental Law.

(viii) Seller has provided or otherwise made available to Buyer, within thirty (30) days of the Effective Date, and listed in EXHIBIT H, to be attached hereto within thirty (30) days of the Effective Date and made a part hereof: (i) the last three (3) years of environmental reports, studies, audits, records, sampling data, site assessments, risk assessments, economic models and other similar documents with respect to the Property or any real property currently or formerly owned, leased or operated by Seller in connection with the System which are in the possession or control of Seller related to compliance with Environmental Laws, Environmental Claims or an Environmental Notice or the Release of Hazardous Materials; and (ii) any and all material documents concerning planned or anticipated capital expenditures required to reduce, offset, limit or otherwise control pollution and/or emissions, manage waste or otherwise ensure compliance with current or future Environmental Laws (including, without limitation, costs of remediation, pollution control equipment and operational changes).

(ix) Seller is not aware of nor reasonably anticipates, as of the Closing, any condition, event or circumstance concerning the Release or regulation of Hazardous Materials that might, after the Closing,

prevent, impede or materially increase the costs associated with the ownership, lease, operation, performance or use of the System and Property as currently carried out.

Section 3.02 Covenants of Seller.

(a) Seller will own, operate, use and manage the System and the Property only in the ordinary course of business consistent with past practice and in any event will ensure that, any provisions of this Agreement to the contrary notwithstanding, (i) the physical and environmental condition of the Property is the same at the time of the Closing as it is as of the Effective Date, only ordinary wear and tear as to the physical condition excepted, and (ii) Seller's title to the Immovable Property and the survey condition of the Immovable Property is the same at the time of the Closing as it is as of the Effective Date, only improvements to the title condition or survey condition performed or undertaken by Seller to address Unacceptable Exceptions excepted.

(b) Intentionally Deleted.

(c) Seller agrees to execute any documents required by the controlling governing authority to replat or rezone the Property.

(d) Seller agrees that from the Effective Date until either the termination of this Agreement or until after the Closing that Seller will not file any notices, requests, compliance documents, pleadings, or any other documents with any governmental or quasi-governmental authority that has jurisdiction over Seller in the operation, regulation or oversight of the System or any other endeavors of Seller (whether related to the System or not) without first providing at least ten (10) days prior notice to the Buyer for review and comment on such filing.

Section 3.03. Certain Definitions.

The following definitions apply in this Agreement:

(a) "*CERCLA*" means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, 42 U.S.C. §§ 9601 et seq.

(b) "*Environmental Claim*" means any action, governmental order, lien, fine, penalty, or, as to each, any settlement or judgment arising therefrom, by or from any person alleging liability of whatever kind or nature (including liability or responsibility for the costs of enforcement proceedings, investigations, cleanup, governmental response, removal or remediation, natural resources damages, property damages, personal injuries, medical monitoring, penalties, contribution, indemnification and injunctive relief) arising out of, based on or resulting from: (a) the presence, Release (as defined below) of, or exposure to, any Hazardous Materials; or (b) any actual or alleged non-compliance with any Environmental Law or term or condition of any Environmental Permit.

(c) "*Environmental Notice*" means any applicable law, and any governmental order or binding agreement with any governmental authority: (a) relating to pollution (or the cleanup thereof) or the protection of natural resources, endangered or threatened species, human health or safety, or the environment (including ambient air, soil, surface water or groundwater, or subsurface strata); or (b) concerning the presence of, exposure to, or the management, manufacture, use, containment, storage, recycling, reclamation, reuse, treatment, generation, discharge, transportation, processing, production, disposal or remediation of any Hazardous Materials.

(d) "*Environmental Laws*" means any written directive, notice of violation or infraction, or notice respecting any Environmental Claim relating to actual or alleged non-compliance with any Environmental Law or any term or condition of any Environmental Permit. The term "Environmental Laws" includes, without limitation, the following (including their implementing regulations and any state analogs): the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, 42 U.S.C. §§ 9601 et seq.; the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended by the Hazardous and Solid Waste Amendments of 1984, 42 U.S.C. §§ 6901 et seq.; the Federal Water Pollution Control Act of 1972, as amended by the Clean Water Act of 1977, 33 U.S.C. §§ 1251 et seq.; the Toxic Substances Control Act of 1976, as amended, 15 U.S.C. §§ 2601 et seq.; the Emergency

Planning and Community Right-to-Know Act of 1986, 42 U.S.C. §§ 11001 et seq.; the Clean Air Act of 1966, as amended by the Clean Air Act Amendments of 1990, 42 U.S.C. §§ 7401 et seq.; and the Occupational Safety and Health Act of 1970, as amended, 29 U.S.C. §§ 651 et seq.

(e) "*Environmental Permits*" means any permit, letter, clearance, consent, waiver, closure, exemption, decision or other action required under or issued, granted, given, authorized by or made pursuant to Environmental Law.

(f) "*Hazardous Materials*" means: (a) any material, substance, chemical, waste, product, derivative, compound, mixture, solid, liquid, mineral or gas, in each case, whether naturally occurring or manmade, that is hazardous, acutely hazardous, toxic, or words of similar import or regulatory effect under Environmental Laws; and (b) any petroleum or petroleum-derived products, radon, radioactive materials or wastes, asbestos in any form, lead or lead-containing materials, urea formaldehyde foam insulation and polychlorinated biphenyls.

(g) "*Knowledge*" or "*Seller's Knowledge*" means the actual knowledge of Seller and each of Seller's Representatives; in each case, after due inquiry.

(h) "*Release*" means any actual or threatened release, spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, abandonment, disposing or allowing to escape or migrate into or through the environment (including, without limitation, ambient air (indoor or outdoor), surface water, groundwater, land surface or subsurface strata or within any building, structure, facility or fixture).

(i) "*Representatives*" in relation to a person means such person's managers, shareholders, officers, directors, employees, agents, advisors, affiliates, successors, and permitted assigns and for the avoidance of doubt the Representatives of Seller.

(j) "*Title Company*" shall refer to Trow & Dobbins, P.A. as an agent of Old Republic Title Insurance Company; however, Buyer shall reserve the right to change the Title Company if it deems such change necessary in its sole discretion.

Section 3.04 Indemnification. From and after the Closing, Seller shall defend, hold harmless and indemnify the Buyer and/or Buyer's Representatives (as defined below) (collectively, "*Indemnified Party*") from and against any and all losses, damages, diminutions in value, liabilities, deficiencies, claims, actions, judgements, settlements, interest, awards, penalties, fines, costs, or expenses of any kind, including professional fees and attorneys' fees, that are suffered or incurred by the Indemnified Party or to which the Indemnified Party may otherwise become subject to at any time (collectively, "*Losses*") arising out of or as a result of: (i) any inaccuracy in or breach of any representation, warranty and/or covenant made by Seller in this Agreement; (ii) any breach or non-fulfillment of any covenant, agreement or obligation to be performed by Seller pursuant to this Agreement; (iii) any actual or alleged liability of Seller and/or Seller's Representatives, or any actual or alleged liability of Buyer that derives from any such liability of Seller and/or Seller's Representatives, whether such liability arises before or after the Closing; and (d) any claim by a third party based upon, resulting from or arising out of (A) the business, operations, properties, assets or obligations of Seller conducted, existing or arising on or prior to the Closing; (B) any inaccuracy in or breach of any representation or warranty made by Seller in this Agreement, or any breach or non-fulfillment of any covenant, agreement or obligation to be performed by Seller pursuant to this Agreement; (C) any negligent or more culpable act or omission of Seller or its Representatives (including any reckless or willful misconduct) in connection with the performance of its obligations under this Agreement; or (D) any failure by Seller or its Representatives to comply with any applicable federal, state or local laws, regulations or codes in the performance of its obligations under this Agreement. Notwithstanding anything to the contrary in this Agreement, Seller is not obligated to indemnify, hold harmless, or defend Indemnified Party against any claim (whether direct or indirect) if such claim or corresponding Losses arise out of or result from Indemnified Party's gross negligence or more culpable act or omission (including recklessness or willful misconduct).

Section 3.05 Representations, Warranties and Covenants of Buyer. Buyer hereby represents and warrants to Seller that the facts recited below are true, complete and accurate as of the date hereof and will continue to be true, complete and accurate at Closing:

(a) Buyer is a corporation, duly formed and in good standing under the laws of the State of Missouri, with full authority to enter into this Agreement and either Buyer or the affiliate that Buyer assigns this Agreement to shall be qualified to conduct business in the State of Florida, shall be in good standing under the laws of Florida prior to the date of Closing and shall have the requisite power and authority to perform the terms of this Agreement without obtaining any further consents or approvals from, or the taking of any other actions with respect to, any third parties. Buyer is not subject to any law, order, decree, restriction or agreement that prohibits or would be violated by this Agreement or the consummation of the transactions contemplated hereby. The execution and delivery of this Agreement and the consummation of the transaction contemplated hereby have been duly authorized by all requisite action of Buyer. This Agreement constitutes, and each document and instrument contemplated hereby to be created and delivered by Buyer, when executed and delivered, shall constitute the legal, valid, and binding obligation by Buyer, enforceable against Buyer in accordance with its respective terms (subject to bankruptcy, reorganization and other similar laws affecting the enforcement of creditors' rights generally).

(b) Neither the execution, delivery and performance of this Agreement, nor the consummation of the transactions contemplated hereby is prohibited by, or requires Buyer to obtain any consent, authorization, approval or registration under any law, statute, rule, regulation, judgment, order, writ, injunction or decree which is binding upon Buyer, other than any regulatory approvals disclosed in writing to Seller.

(c) Buyer shall use reasonable diligent effort in good faith to inspect the Property in an expeditious manner so as to determine as quickly as possible whether the Property is suitable to the Buyer. Buyer will make all applications and diligently pursue such applications with governmental and other bodies as appropriate to facilitate and enable the expeditious closing of the transaction.

Section 3.06 Covenants of Buyer.

(a) After Closing, Buyer will own, operate, use and manage the System and the Property and will continue to supply water services to Seller's customers on existing contracts and fulfill obligations under existing developer and other contractor agreements that have been disclosed to the Buyer during the Feasibility Period to which the Seller is subject in the ordinary course of business of operation of the System.

(b) By its execution of this Agreement, Buyer acknowledges and accepts, waiving any and all claims against the Seller related to the fact that the Oakhaven System and the Ocklawaha System contains sulfur and in the Oakhaven System the Seller adds polyphosphates to the water provided.

(c) Buyer acknowledges that the tanks for the Lake Weir Pines systems are defective and need replacement and those systems are being run on temporary tanks and Buyer accepts the same in their current condition.

Section 3.07 Indemnification. From and after the Closing, Buyer shall defend, hold harmless and indemnify the Seller and/or Seller's Representatives (as defined in Section 3.03(i) above) (collectively, "*Seller Indemnified Party*") from and against any and all losses, damages, diminutions in value, liabilities, deficiencies, claims, actions, judgements, settlements, interest, awards, penalties, fines, costs, or expenses of any kind, including professional fees and attorneys' fees, that are suffered or incurred by the Seller Indemnified Party or to which the Seller Indemnified Party may otherwise become subject to at any time (collectively, "*Losses*") arising out of or as a result of: (i) any inaccuracy in or breach of any representation, warranty and/or covenant made by Buyer in this Agreement; and (ii) any claim by a third party based upon, resulting from or arising out of (A) the business, operations, properties, assets or obligations of Buyer conducted, existing or arising after the Closing; (B) any inaccuracy in or breach of any representation or warranty made by Buyer in this Agreement, or any breach of the covenant and obligation set forth in Section 3.06(c) above; (C) any failure by Buyer or its Representatives to comply with any applicable federal, state or local laws, regulations or codes in the performance of its obligations under this Agreement; or (D) the use and operation of the Property and System after Closing. Notwithstanding anything to the contrary in this Agreement, Buyer is not obligated to indemnify, hold harmless, or defend Seller Indemnified Party against any claim (whether direct or indirect) if such claim or corresponding Losses arise out of or result from Seller Indemnified Party's gross negligence or more culpable act or omission (including recklessness or willful misconduct).

ARTICLE IV
CLOSING

Section 4.01 Closing.

(a) Subject to the terms and conditions of this Agreement, the Closing of the purchase and sale of the Property pursuant to this Agreement (the *"Closing"*) shall take place at the Title Company forty-five (45) days after the later of the expiration of the Feasibility Period and the approval by any regulatory bodies in a form satisfactory to Buyer as set forth in more detail in Section 2.05(a), or (i) such earlier date as is elected by Buyer by giving not less than thirty (30) days prior notice to Seller (with such election, Buyer must, in writing delivered to Seller, waive all outstanding contingencies, the Feasibility Period and accept all matter on the Title Commitment and Surveys and make the Additional Deposit), or (ii) such earlier or later date as agreed in writing by Seller and Buyer (the *"Closing Date"*).

(b) At the Closing, Seller shall deliver to Buyer the following:

(i) A certificate of good standing for Seller plus the requisite duly executed corporate approvals for the sale;

(ii) A general warranty deed in executed form, conveying good, merchantable, and insurable title in fee simple to all of the Immovable Property, free and clear of any and all mortgages, liens, encumbrances, claims, conditions, easements, assessments, and restrictions, except for the Permitted Exceptions, if any;

(iii) A duly executed bill of sale, conveying all of the Movable Property described in EXHIBIT B, free and clear of any and all mortgages, liens, claims, restrictions, and encumbrances;

(iv) A duly executed termination of lease, terminating any existing lease agreements encumbering or relating to the Property, except as applicable to allow for the continued operation of the System by the Buyer, and for such leases an assignment of such lease shall be provided at Closing;

(v) A duly executed assignment of any interest in any other Property used and/or useful in the operation of the System that is owned by Seller;

(vi) Such other instruments and documents that are customarily executed by a seller of immovable property in the county in which the Property is located, including, but not limited to, resolutions or unanimous written consents of the Board of Directors of Seller, and if required the shareholders of Seller, to authorize the sale of the Property to Buyer pursuant to this Agreement;

(vii) Tax statements for calendar year of Closing;

(viii) Possession of the Property;

(ix) If requested by Buyer, and to the extent assignable, duly executed, conveyances and assignments to Buyer of any and all consents, authorizations, variances, waivers, licenses, permits, and approvals from any federal, state, county, municipal, or other governmental or quasi-governmental agency, department, board, commission, bureau, or other entity or instrumentality relating to the Property, including, without limitation, those relating to environmental, foundation, use, utilities, building, fire, traffic, and zoning heretofore or hereafter held by or granted to Seller (collectively, the "*Approvals*"). No additional consideration shall be due by Buyer for the Approvals, it being understood and agreed by Seller that the Purchase Price covers the Property, the Approvals, and the Claims (as hereinafter defined); and

(x) If requested by Buyer, duly executed assignments to Buyer, with full substitution and subrogation, of any and all claims, actions, rights, causes of action, rights of action, and warranties, whether arising in contract, tort, or otherwise, including, but not limited to, environmental claims, actions, rights,

causes of action, rights of action, and warranties, that Seller has or may have against any and all persons and entities as a result of any apparent or non-apparent damage to, destruction of, or diminution in value of the Property, or any part thereof, occurring prior to the Closing (collectively, the "*Claims*"). No additional consideration shall be due by Buyer for the Claims, it being understood and agreed by Seller that the Purchase Price covers the Property, the Approvals, and the Claims.

(c) At the Closing, Buyer shall deliver to Seller the following:

(i) The Purchase Price; and

(ii) Such other instruments and documents that are customarily executed by a buyer of immovable property in the county in which the Property is located.

(iii) Such other agreements or assurances as necessary to indemnify the Seller for existing obligations of the operation of the System and provision of water services.

Section 4.02 Closing Costs and Prorations. Buyer and Seller hereby covenant and agree that:

(a) Seller shall pay the costs of any roll back taxes and Seller's attorneys' fees and expenses. Seller shall also pay all fees, costs, and expenses for title curative work and any other work that Seller agrees to perform or undertake in order to address any Unacceptable Exceptions and/or to otherwise enable Seller to sell and deliver to Buyer good, merchantable, and insurable fee simple title to the Property as required by this Agreement.

(b) Buyer shall pay all remaining title fees charged by the Title Company (including the premium for the issuance of an Owner's Title Policy), recording fees, documentary stamp taxes, and Buyer's attorneys' fees.

(c) All ad valorem real estate taxes and assessments levied or assessed against the Property shall be prorated according to the calendar year as of the Closing Date, based on the most recent tax bill and assessments levied for the same.

ARTICLE V
DEFAULTS AND REMEDIES

Section 5.01 Buyer's Default and Seller's Remedies.

(a) Buyer's Default. Buyer shall be in default under this Agreement if and only if any and all conditions to be satisfied under the terms of this Agreement prior to Closing have been satisfied (or duly waived) and Buyer fails or refuses to perform Buyer's obligations at Closing for any reason other than a default by Seller. For the avoidance of doubt, a termination under Section 2.04 will not constitute an event of default by Buyer.

(b) Seller's Remedies. If Buyer is in default under this Agreement, the sole and exclusive remedy of Seller, shall be receipt of the Earnest Money and Additional Deposit. Buyer and Seller agree that in such case the Earnest Money shall be liquidated or stipulated damages under Florida law for a breach or default by Buyer under this Agreement and/or any other actions or claims that could arise out of or are related to this Agreement because of the difficulty, inconvenience, and uncertainty of ascertaining actual damages for such default. Therefore, in no event shall Buyer be liable for or Seller be entitled to any actual damages or any other type of damages or remedy under any action or claim that could arise out of or that could any way relate to this Agreement other than the right to receive the stipulated amount of the Earnest Money as full satisfaction of Seller's claims.

Section 5.02 Seller's Defaults and Buyer's Remedies.

(a) Seller's Defaults. Seller shall be in default under this Agreement on the occurrence of any of one or more of the following events:

(i) Any breach of a representation or warranty made by Seller in this Agreement or failure of any such representation or warranty to be true, accurate and complete; or

(ii) Any breach or non-fulfillment of any covenant, agreement or obligation to be performed by Seller pursuant to this Agreement.

(b) Buyer's Remedies. If Seller defaults under this Agreement (whether before or after the Closing or before termination or after termination in relation to provision that survive termination) Buyer may:

(i) If such default is identified prior to Closing, terminate this Agreement by written notice to Seller and Title Company, in which event the Title Company shall promptly refund the Earnest Money to Buyer;

(ii) Enforce specific performance of this Agreement against Seller; and/or

(iii) Pursue such other remedies as may be available at law or in equity, including a suit for any damages and the right to recover attorneys' fees and costs.

Section 5.03 Attorneys' Fees. If either party defaults under this Agreement, and the non-defaulting party employs an attorney to enforce the terms hereof, such non-defaulting party shall be entitled to reasonable attorneys' fees and costs from the defaulting party.

Section 5.04 Survival. The provisions of this Section 5 and of Sections 1.04 and 2.08, and of Article III, Article VI, Article VII shall survive the termination of this Agreement. The provisions of Section 2.08 and Article III shall survive the Closing for a period of five (5) years, except that the representations and warranties in Sections 3.01(a), (b), and (c), Sections 3.05(a) and (b) Section 3.04, Section 3.06 and Section 3.07 shall survive indefinitely. All other provisions of this Agreement shall survive Closing unless otherwise expressly stated.

ARTICLE VI
COMMISSIONS

Section 6.01 Commission. No commissions are due and/or owing for the procurement of this Agreement to any third parties. Seller shall defend, indemnify, and hold harmless Buyer from and against any and all claims by any person or entity for brokerage fees, brokerage commissions, finder's or other fees, which shall include, but shall not be limited to, any and all court costs, attorneys' fees and other costs and expenses relating thereto, alleged to be due to any broker and/or agent with whom Seller has dealt in connection with this Agreement or the sale of the Property to Buyer, and Buyer shall defend, indemnify, and hold harmless Seller from and against any and all claims by any person or entity for brokerage fees, brokerage commissions, finder's or other fees, which shall include, but shall not be limited to, any and all court costs, attorneys' fees and other costs and expenses relating thereto, alleged to be due to any broker and/or agent with whom Buyer has dealt in connection with this Agreement or the purchase of the Property by Buyer.

ARTICLE VII
MISCELLANEOUS PROVISIONS

Section 7.01 Effective Date of Agreement. The term "Effective Date" as used herein shall mean the date this Agreement has been fully executed by Seller and Buyer, as indicated by their signatures below, and a signed copy thereof is delivered to and acknowledged by the Title Company.

Section 7.02 Notices. All notices, demands and requests which may be given or which are required to be given by either party to the other, and any exercise of a right of termination provided by this Agreement, shall be in writing and shall be deemed effective when sent to the address or telecopy number of the party to receive such notice set forth below if effected by telecopy, e-mail or other electronic transmission, hand delivery, by Federal Express or other reputable courier service, or when deposited in any post office or mail receptacle regularly maintained by the United States Government, certified or registered mail, return receipt requested, postage prepaid, addressed as follows:

If to Buyer:	Josiah M. Cox Central States Water Resources, Inc. 500 Northwest Plaza Drive Suite 500 St. Ann, MO 63074 Facsimile: _____ E-Mail: jcox@cswrgroup.com
with a copy to:	James A. Beckemeier The Beckemeier Law Firm, LC 13421 Manchester Rd., Ste. 103 St. Louis, MO 63131 Phone: 314-965-2277 Facsimile: 314-965-0127 E-Mail: jim@beckemeierlaw.com
If to Seller:	Dewaine W. Christmas, President Sunshine Utilities of Central Florida, Inc. 10230 E. Highway 25 Belleview, FL 34420 Phone: (352) 347-8228 Facsimile:352-347-6915 E-Mail: sunshineutl@aol.com
with a copy to:	Thomas J. Dobbins, Esquire Trow & Dobbins, P.A. 1301 NE 14th Street Ocala, FL 34470 Phone: 352-369-88830 Facsimile: 352-369-8832 E-Mail: eservice@ocalalawfirm.com and tom @ocalalawfirm.com

Section 7.03 Governing Law. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF FLORIDA AND ALL PROCEEDINGS OR OBLIGATIONS HEREUNDER SHALL BE MADE AND ARE PERFORMABLE IN MARION COUNTY, FLORIDA.

Section 7.04 Successors and Assigns. This Agreement shall apply to, inure to the benefit of and be binding upon and enforceable against the parties hereto and their respective heirs, administrators, successors and assigns. Buyer shall have the right to assign this Agreement to one of its affiliated entities by providing written notice to Seller of such assignment, but in such case shall not be relieved of liability under this Agreement.

Section 7.05 Counterparts and Amendments. This Agreement may be executed in multiple counterparts, each of which shall be deemed an original, and all of which shall constitute but one and the same instrument. This Agreement may only be amended by a written document signed by each of the parties hereto, which document shall make specific reference to this Agreement.

Section 7.06 Time. Time is of the essence in the performance of each term, condition, and covenant contained in this Agreement. No extension of time for performance of any obligation or act shall be deemed an extension of time for performance of any other obligation or act. If any date for performance of any term, condition or provision hereof shall fall on a Saturday, Sunday or legal holiday, then the time of such performance shall be extended to the next business day.

Section 7.07 Severability. This Agreement is intended to be performed in accordance with, and only to the extent permitted by, all applicable laws, ordinances, rules and regulations. If any provision of this Agreement or the application thereof to any person or circumstance shall, for any reason and to any extent, be invalid or unenforceable, the remainder of this Agreement and the application of such provision to other persons or circumstances shall not be affected thereby but shall be enforced to the greatest extent permitted by law.

Section 7.08 Entire Agreement. Buyer and Seller each acknowledges and agrees that at all times each have intended that none of the preliminary negotiations concerning this Agreement would be binding on any party. This Agreement and the Exhibits attached hereto prior to the Closing Date contain all the covenants, conditions, agreements and understandings between the parties and shall supersede all prior covenants, conditions, agreements, letters of intent, term sheets, and understandings between Seller and Buyer with respect to the purchase and sale of the Property and all other matters contained in this Agreement.

Section 7.9 Final Exhibits. The legal description of the Immovable Property contained in the Survey shall be substituted for the legal description of the Immovable Property used in EXHIBIT A as of the date hereof without the necessity of the parties executing any additional amendments to this Agreement. EXHIBIT C shall be included as part of this Agreement when, and in the form, notified to Seller by Buyer in writing. EXHIBIT D shall be included as part of this Agreement if and when it is in the form, agreed by Seller and Buyer in writing prior to Closing. With regard to EXHIBITS E, F, and G, in the event Seller fails to provide a list of all relevant information for the respective Exhibit at least thirty (30) days prior to the end of the Feasibility Period, Buyer will assume there is no such relevant information and the respective Exhibit will be marked "None."

Section 7.10 Buyer Exchange. Seller and Buyer agree to cooperate should the other elect to purchase the Property or other real property as part of a like-kind exchange under IRC section 1031. Any contemplated exchange shall not impose upon the cooperating party any additional liability or financial obligation, and Buyer or Seller, as appropriate agrees to hold the other harmless from any liability that might arise from such exchange. This Agreement is not subject to or contingent upon either party's ability to acquire a suitable exchange property or effectuate an exchange. In the event any exchange contemplated by Buyer or Seller should fail to occur, for whatever reason, the sale of the Property shall nonetheless be consummated as provided herein.

Section 7.11 Rollback Taxes, Standby Fees and Special Assessments. If this sale results in the assessment after Closing of additional taxes, standby fees or special assessments for periods of Seller's ownership (including taxes assessed as a result of a change in ownership or usage), the additional taxes, fees or assessments plus any penalties and interest shall be paid by Seller to Buyer within fifteen (15) days of receipt by Buyer of a statement for such taxes, fees or assessments.

Section 7.12 Ambiguities Not to Be Construed against Party Who Drafted Agreement. The rule of construction that ambiguities in a document will be construed against the party who drafted it will not be applied in interpreting this Agreement.

Section 7.13 No Special Relationship. The parties' relationship is an ordinary commercial relationship of seller and buyer, and they do not intend to create and have not created the relationship of principal and agent, partnership, joint venture, or any other special relationship.

Section 7.14 Confidentiality. The parties will keep confidential this Agreement, this transaction, and all information learned in the course of this transaction, except to the extent disclosure is required by law or court order or to enable third parties to advise or assist Buyer to investigate the Property or either party to close this transaction.

Section 7.15 Business Day. As used in this Agreement, the term "business day" means Monday through Friday of each week, except for days on which banks in Marion County, Florida are closed for business. If the final date of any period which is set out any section of this Agreement falls upon a day which is not a business day, then, and in such event, the time of such period will be extended to the next business day.

Section 7.16 Further Assurances. From the date hereof, Seller and Buyer each agrees to do such things, perform such acts and make, execute, acknowledge and deliver such documents as may be reasonably necessary and

customary to complete the transactions contemplated by this Agreement. In particular, Seller and Buyer each agrees to do such things as may be reasonably necessary with respect to the transfer of the Property.

Section 7.17 Escrow. Buyer and Seller authorize Title Company to act as "Escrow Agent" to receive funds, including but not limited to the Earnest Money and Additional Deposit and other items and, subject to clearance, disburse them in accordance with the terms of this Agreement. Escrow Agent will deposit all funds receive in its Trust Account with the interest on any funds therein being remitted pursuant to the Rules and Regulations of the Florida Bar, such interest shall not belong to Buyer or Seller. If Escrow Agent receives conflicting demands or has a good faith doubt as to Escrow Agent's duties or liabilities under this Agreement he/she may (a) hold the subject matter of the escrow until the parties mutually agree to its disbursement or until issuance of a court order or decision of arbitrator determining the parties' rights regarding the escrow or (b) deposit the subject matter of the escrow with the Clerk of the Circuit Court having jurisdiction over the dispute. Upon notifying the parties of such action, Escrow Agent will be released from all liability except for the duty to account for items previously delivered out of escrow. In any suit or arbitration in which Escrow Agent is made a party because of acting as agent hereunder or interpleads the subject matter of the escrow, Escrow Agent will recover reasonable attorneys' fees and costs at all levels, with such fees and costs to be paid from the escrowed funds or equivalent and charged and awarded as court or other costs in favor of the prevailing party. The parties agree that Escrow Agent will not be liable to any person for misdelivery to Buyer or Seller of escrowed items, unless the misdelivery is due to Escrow Agent's willful breach of this Agreement or gross negligence.

Section 7.18 Assignment: Buyer may assign this Agreement to a related or subsidiary entity of the Buyer, but shall not be relieved of its obligations or liability under the Agreement, but shall rather be jointly and severally liable for the performance to the Seller for the Buyer's obligations hereunder.

Section 7.19 Energy Efficiency: Buyer may have determined the energy efficiency rating of the buildings, if any, located on the Property.

Section 7.20 Radon Gas: Radon is a naturally occurring radioactive gas that, when it has accumulated in a building in sufficient quantities, may present health risks to persons who are exposed to it over time. Levels of radon that exceed federal and state guidelines have been found in buildings in Florida. Additional information regarding radon and radon testing may be obtained from your county health department."

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed under proper authority and effective and binding as of the date first set above.

BUYER:

CENTRAL STATES WATER RESOURCES, INC.,
a Missouri corporation

DocuSigned by:
By: Josiah Cox
144D2DD1440B4DC...
Josiah M. Cox, President

SELLER:

SUNSHINE UTILITIES OF CENTRAL FLORIDA, INC.,
a Florida corporation

By: _____
Dewaine W. Christmas, President

RECEIPT OF EARNEST MONEY

The undersigned Title Company hereby acknowledges its receipt of an executed copy of this Agreement and, the Earnest Money provided herein and, further, agrees to comply with and be bound by the terms and provisions of this Agreement, without demand, including, without limitation, those terms relating to the disposition of the Earnest Money.

_____
Name of Title Company

By: _____

Name: _____

Title: _____

Date: _____

EXHIBIT A

Description of the Immovable Property

(The legal description(s) of the Land, Improvements thereon, Easements, & Rights of Way shall be determined by survey and title commitments, which shall be inserted prior to the Closing).

[TO BE INSERTED PRIOR TO CONCLUSION OF THE FEASIBILITY PERIOD]

EXHIBIT B

Description of the Movable Property
(tools, devices, equipment, furniture, fixtures, machinery, supplies, and other tangible items)

[TO BE PROVIDED BY SELLER PRIOR TO CONCLUSION OF THE FEASIBILITY PERIOD]

EXHIBIT C

Service Area Map
(area in which the System service lines, plant, pipes, manholes, meters, lift or pump stations and appurtenances, utility facilities, etc. are located)

[SERVICE AREA MAPS & LEGAL DESCRIPTIONS TO BE INSERTED PRIOR TO CLOSING]

SYSTEM NAMES:

- Ashley Heights
- Belleview Oaks
- Burks/Ocala Gardens
- Country Walk
- Eleven Oaks
- Emil-Mar
- Florida Heights
- Floyd Clarks
- Fore Oaks
- Hilltop
- Little Lake Weir
- Oakhaven
- Oakhurst
- Ocala Heights
- Ocklawaha
- Ponderosa Pines
- Quail Run
- Sandy Acres
- Sunlight Acres
- Sunray
- Sun Resorts
- Whispering Sands
- Winding Waters

EXHIBIT D
[Purchase Price Allocation]

[TO BE INSERTED PRIOR TO CLOSING]

EXHIBIT E
[Environmental Non-Compliance]

[TO BE PROVIDED BY SELLER THIRTY (30) DAYS PRIOR TO CONCLUSION OF THE FEASIBILITY PERIOD]

EXHIBIT F

[List of Permits and Non-Compliance with Permits]

[TO BE PROVIDED BY SELLER THIRTY (30) DAYS PRIOR TO CONCLUSION OF THE FEASIBILITY PERIOD]

EXHIBIT G

[Off-site Hazardous Materials Locations]

[TO BE PROVIDED BY SELLER THIRTY (30) DAYS PRIOR TO CONCLUSION OF THE FEASIBILITY PERIOD]

EXHIBIT H

[Reports, Studies, Audits, Records, Data, Site Assessment, Economic Models, etc.]

[TO BE PROVIDED BY SELLER WITHIN THIRTY (30) DAYS OF THE EFFECTIVE DATE]

EXHIBIT 2

TROW & DOBBINS, P.A.
1301 NE 14th Street
Ocala, FL 34470

Buyer's Closing Statement

File Number: **SUNSUT-6494.2**

Date: **May 24, 2022**

Sellers: **Sunshine Utilities of Central Florida, Inc. and CH Utility Holdings, LLC**

Buyers: **CSWR-Florida Utility Operating Company, LLC**

Gross Amount Due from Buyer	
Purchase Price	6,000,000.00
Title Insurance to Old Republic National Title Insurance Company	25,644.60
Additional Parcel Search - Parcel #26 to Attorney's Title Fund Services, LLC	125.00
Municipal Lien Search Updates to Gator Lien Search, LLC	4,455.00
Deed Recording Fees	146.00
Deed State Tax/Stamps	42,000.00
Deed - CH Utility Holdings, LLC to Clerk of the Circuit Court	86.50
Assignment - General to Clerk of the Circuit Court	188.50
Assignment Lease - Parcel 16 to Clerk of the Circuit Court	35.50
Assignment Lease - Parcel 18 to Clerk of the Circuit Court	52.50
Assignment Lease - Parcel 21 to Clerk of the Circuit Court	109.50
Escrow for Recording Fees	300.00
Gross Amount Due from Buyer	**6,073,143.10**

Amounts Paid by or in Behalf of Buyer	
Deposit / Earnest Money	1,000.00
Adjustments for Items Unpaid	
Real Property Taxes & Assessments Jan 1, 2022 thru May 23, 2022	2,050.49
Tangible Personal Property Taxes Jan 1, 2022 thru May 23, 2022	5,198.99
Total Paid by / for Buyer	**8,249.48**

Cash at Settlement from / to Buyer	
Gross Amount Due from Buyer	6,073,143.10
Less Amount Paid by / for Buyer	8,249.48
Cash From Buyer	**6,064,893.62**

[Execution On Following Page]

Accepted and Agreed:

BUYER:

CSWR-FLORIDA UTILITY OPERATING COMPANY, LLC, a Florida limited liability company

By: CENTRAL STATES WATER RESOURCES, INC., a Missouri corporation
Its: Manager

By: _____
JOSIAH M. COX, its President

TROW & DOBBINS, P.A.
1301 NE 14th Street
Ocala, FL 34470

Seller's Closing Statement

File Number: **SUNSUT-6494.2**

Date: **May 24, 2022**

Sellers: **Sunshine Utilities of Central Florida, Inc. and CH Utility Holdings, LLC**

Buyers: **CSWR-Florida Utility Operating Company, LLC**

Gross Amount Due to Seller	
Purchase Price	6,000,000.00
Gross Amount Due to Seller	**6,000,000.00**
Reductions in Amount Due to Seller	
Payoff of Credit Line	90,951.17
Attorney Fees to Trow & Dobbins, P.A.	96,164.13
Affidavit - Parcel 1 to Clerk of the Circuit Court	28.00
Affidavit - Parcel 2 to Clerk of the Circuit Court	30.00
Affidavit - Parcel 4 to Clerk of the Circuit Court	33.00
Affidavit - Parcel 23 to Clerk of the Circuit Court	28.00
Escrow for Large Water Utility Regulatory Assessment Fee Return	27,500.00
Escrow for Final Sale's Tax Return	1,000.00
Escrow for Municipal Lien Search	10,000.00
Adjustments for Items Unpaid	
Real Property Taxes & Assessments Jan 1, 2022 thru May 23, 2022	2,050.49
Tangible Personal Property Taxes Jan 1, 2022 thru May 23, 2022	5,198.99
Total Reductions in Amount Due Seller	**232,983.78**
Cash at Settlement to / from Seller	
Gross Amount Due to Seller	6,000,000.00
Less Reductions Amount due Seller	232,983.78
Cash To Seller	**5,767,016.22**

[Execution On Following Page]

Accepted and Agreed:

SELLERS:

SUNSHINE UTILITIES OF CENTRAL FLORIDA, INC., a Florida corporation

By: _____
DEWAINE W. CHRISTMAS, its President

CH UTILITY HOLDINGS, LLC, a Florida limited liability company

By: Clarise Hodges
CLARISE HODGES, its Manager

SETTLEMENT STATEMENT ADDENDA

The undersigned hereby certifies that I/we have carefully reviewed the Closing Disclosure or other settlement statement form, and I/we approve and agree to the payment of all fees, costs, expenses and disbursement as reflected on the Closing Disclosure or other settlement statement form to be paid on my behalf. I/We further certify that I/we have received a copy of the Closing Disclosure or other settlement statement.

Buyer:

CSWR-FLORIDA UTILITY OPERATING COMPANY, LLC, a Florida limited liability company

By: CENTRAL STATES WATER RESOURCES, INC., a Missouri corporation
Its: Manager

By: _____
JOSIAH M. COX, its President

SETTLEMENT STATEMENT ADDENDA

The undersigned hereby certifies that I/we have carefully reviewed the Closing Disclosure or other settlement statement form, and I/we approve and agree to the payment of all fees, costs, expenses and disbursement as reflected on the Closing Disclosure or other settlement statement form to be paid on my behalf. I/We further certify that I/we have received a copy of the Closing Disclosure or other settlement statement.

Sellers:

SUNSHINE UTILITIES OF CENTRAL FLORIDA, INC., a Florida corporation

By: _____
DEWAINE W. CHRISTMAS,
its President

CH UTILITY HOLDINGS, LLC, a Florida limited liability company

By: Clarise Hodges
CLARISE HODGES,
its Manager

Settlement Agent Certification

I have reviewed the Closing Disclosure, the settlement statement, the lender's closing instructions and any and all other forms relative to the escrow funds, including any disclosure of the Florida title insurance premiums being paid, and I agree to disburse the escrow funds in accordance with the terms of this transaction and Florida law.

Settlement Agent Signature	May 24, 2022 Date Signed
Thomas J. Dobbins Settlement Agent Name	0433926 Florida License Number
Trow & Dobbins, P.A. Title Agency Holding Funds	Florida License Number

EXHIBIT 3

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, President
Sunshine Utilities of Central Florida
10230 SE Highway 25
Belleview, Florida 34420-5531
SunShineUTL@aol.com

Re: Compliance Assistance Offer
Ashley Heights S/D
PWS: 3424962
Marion County

Dear Mr. Dewaine Christmas:

A file review was conducted on your facility on March 7, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for the *synthetic organic contaminant: endothall* sampling/testing, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
    - Provide documentation on steps that have been taken to prevent future sampling omissions.
    - Contact the Department to determine if increased sampling is required, or
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

Additionally, Department records indicate your facility did not perform required testing for *radiological contaminants: radium-228, radium-226, combined uranium, and gross alpha particles excluding radon and uranium* on time, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by January 10, 2022 and was submitted late. The report was received by the Department on January 27, 2022.

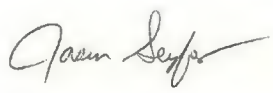
We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
   - Provide documentation on steps that have been taken to prevent future sampling omissions.
   - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Kymberlee Osborne-Benthaus of the Central District Office at 407-897-4337 or via e-mail at Kymberlee.OsborneBenthaus@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,



Jason Seyfert, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Kymberlee Osborne-Benthaus, FDEP

EXHIBIT 4

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

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

Re: Compliance Assistance Offer
Country Walk
3424657
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 2, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for *Synthetic Organic Contaminant Endothall*. Additionally, required reports for *Radiological contaminants* were not submitted on time, both of which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by January 10, 2022 and was submitted late. The report was received by the Department on January 27, 2022.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. For missing *Endothall* sample, describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.

- Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
- Provide documentation on steps that have been taken to prevent future sampling omissions.
- Contact the Department to determine if increased sampling is required

1. For late reporting of *Radiological contaminants*, describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - Provide documentation on steps that have been taken to prevent future sampling omissions.
    - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Alyssa Lenkel of the Central District Office at 407-897-2964 or via e-mail at Alyssa.Lenkel@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Alyssa Lenkel, FDEP
Sunshine Utilities, sunshineutilities@aol.com

EXHIBIT 5

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, President
Sunshine Utilities of Central Florida Inc.
10230 East Highway 25
Belleview, Florida 34420
SunshineUTL@aol.com

Re: Compliance Assistance Offer
Eleven Oaks Subdivision
PWS: 3424099
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 8, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for the *synthetic organic contaminant endothall*, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit.

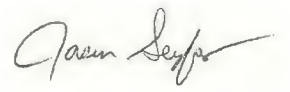
We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
    - Provide documentation on steps that have been taken to prevent future sampling omissions.
    - Contact the Department to determine if increased sampling is required, or
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Kymberlee Osborne-Benthaus of the Central District Office at 407-897-4337 or via e-mail at Kymberlee.OsborneBenthaus@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,



Jason Seyfert, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Kymberlee Osborne-Benthaus, FDEP
Kelvin Edun, Operator, Universal Waters, BlueJay2415@aol.com

EXHIBIT 6

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 9, 2022

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

Re: Compliance Assistance Offer
Emil-Mar Subdivision
3420340
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 2, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for *Synthetic Organic Contaminant Endothall*. Additionally, required reports for *Radiological contaminants* were not submitted on time, both of which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by January 10, 2022 and was submitted late. The report was received by the Department on January 27, 2022.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include the following:

1. For missing *Endothall* sample, describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.

- Provide documentation on steps that have been taken to prevent future sampling omissions.
- Contact the Department to determine if increased sampling is required

1. For late reporting of *Radiological contaminants*, describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
   - Provide documentation on steps that have been taken to prevent future sampling omissions.
   - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Alyssa Lenkel of the Central District Office at 407-897-2964 or via e-mail at Alyssa.Lenkel@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Alyssa Lenkel, FDEP
Kelvin Edun, universalwaters94@yahoo.com
Aquapure, aquapurelisa@gmail.com
Operator, bluejay2415@aol.com
Sunshine Utilities, sunshineutilities@aol.com

EXHIBIT 7

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

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

Re: Compliance Assistance Offer
Florida Heights Subdivision
3424031
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 2, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for *Synthetic Organic Contaminant Endothall*. Additionally, required reports for *Radiological contaminants* were not submitted on time, both of which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by January 10, 2022 and was submitted late. The report was received by the Department on January 27, 2022.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include the following:

1. For missing *Endothall* sample, describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.

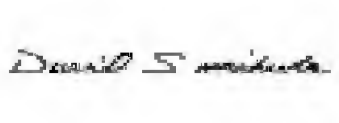
- Provide documentation on steps that have been taken to prevent future sampling omissions.
- Contact the Department to determine if increased sampling is required

1. For late reporting of *Radiological contaminants*, describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
   - Provide documentation on steps that have been taken to prevent future sampling omissions.
   - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Alyssa Lenkel of the Central District Office at 407-897-2964 or via e-mail at Alyssa.Lenkel@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,



David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Alyssa Lenkel, FDEP
Kelvin Edun universalwaters94@yahoo.com
Operator bluejay2415@aol.com
Owner, sunshineutilities@aol.com

EXHIBIT 8

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, President
Sunshine Utilities of Central Florida, Inc.
10230 East Highway 25
Belleview, Florida 34420-5531
SunshineUTL@aol.com

Re: Compliance Assistance Offer
Floyd Clark Subdivision
PWS: 3420411
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 8, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for the *synthetic organic contaminant: endothall* sampling/testing, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
    - Provide documentation on steps that have been taken to prevent future sampling omissions.
    - Contact the Department to determine if increased sampling is required, or
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

Additionally, Department records indicate your facility did not perform required testing for *radiological contaminants: radium-228, radium-226, combined uranium, and gross alpha particles excluding radon and uranium* on time, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by January 10, 2022 and was submitted late. The report was received by the Department on January 27, 2022.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
   - Provide documentation on steps that have been taken to prevent future sampling omissions.
   - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Kymberlee Osborne-Benthaus of the Central District Office at 407-897-4337 or via e-mail at Kymberlee.OsborneBenthaus@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

Jason Seyfert, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Kymberlee Osborne-Benthaus, FDEP

EXHIBIT 9

FLORIDA DEPARTMENT OF
Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, Owner/Office manager
Sunshine Utilities of Central FL, Inc.
10230 SE Highway 25
Belleview, FL 34420
sunshineutl@aol.com
sunshineutilities@aol.com

Re: Compliance Assistance Offer
Oak Haven Quadruplexes
3424106
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 7, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not perform required testing for *Synthetic Organic contaminant Endothall and Secondary Foaming Agents* sampling/testing, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C), or according to your permit.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.

- Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
- Provide documentation on steps that have been taken to prevent future sampling omissions.
- Contact the Department to determine if increased sampling is required, or

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Alyssa Lenkel of the Central District Office at 407-897-2964 or via e-mail at Alyssa.Lenkel@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Alyssa Lenkel, FDEP
Kelvin Edun, universalwaters94@yahoo.com

EXHIBIT 10

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, President
Sunshine Utilities of Central Florida, Inc.
10230 East Highway 25
Belleview, Florida 34420-5531
SunshineUtl@aol.com

Re: Compliance Assistance Offer
Ocklawaha Water Works (2WTPS)
PWS: 3420939
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 8, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not perform required testing for the *synthetic organic contaminant: endothall*, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit.

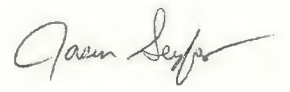
We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
    - Provide documentation on steps that have been taken to prevent future sampling omissions.
    - Contact the Department to determine if increased sampling is required, or
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Kymberlee Osborne-Benthaus of the Central District Office at 407-897-4337 or via e-mail at Kymberlee.OsborneBenthaus@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,



Jason Seyfert, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Kymberlee Osborne-Benthaus, FDEP

EXHIBIT 11

Jonathan Meany

From: sunshineutl@aol.com
Sent: Wednesday, February 17, 2021 1:52 PM
To: Rothenberger, Miranda
Subject: Re: 3420939 Drinking Water Inspection Follow Up
Attachments: OCKLAWAHA FLOW METER.pdf

Miranda:

1.) The check valve was repaired on 2/16/21.

2.) We did exceed our permitted capacity in April and May I believe because we had an influx of Northerners staying here due to Covid-19. I check our gallons billed for those months and they were definitely higher than normal.

3.) I have attached the flow meter calibration.

Thank you,
Dewaine Christmas
Sunshine Utilities

-----Original Message-----
From: Rothenberger, Miranda <Miranda.Rothenberger@FloridaDEP.gov>
To: sunshineutl@aol.com <sunshineutl@aol.com>
Sent: Mon, Feb 8, 2021 5:15 pm
Subject: 3420939 Drinking Water Inspection Follow Up

Good afternoon,

An inspection was conducted at Ocklawaha Water Works on Friday, February 5, 2021. Based on that inspection

- It was noted that the check valve at the Ocklawaha Pines plant was not functioning properly. Please repair or replace and let me know when work has been completed.
- MORs for the Pines plant indicate a well design capacity exceedance in April and May 2020. Please provide a written explanation.
- I did not note flow meter calibrations on site. The flow meters were last calibrated in 2015 according to our records. Please send me the most recent calibration report or calibrate the meters.

Let me know if you have any questions.

Thanks

Miranda Rothenberger
Environmental Specialist II
Compliance Assurance Program
Department of Environmental Protection
Central District – Orlando
Miranda.rothenberger@floridadep.gov
Office: 407-897-4301

Please take a few moments to provide us with valuable feedback!

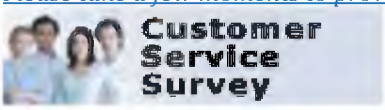


EXHIBIT 12

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

November 15, 2019

Dewaine Christmas, Facility Contact
Sunshine Utilities
10230 East HWY 25
Belleview, FL. 34420
SUNSHINEUTL@AOL.COM

Re: Compliance Assistance Offer
Ocklawaha Water Works
PW 3420939
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on October 30, 2019. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not perform required testing Disinfection By-Product sampling, which were required to be performed annually per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. Upon investigation, a phone and email conversation confirmed that the samples were not collected.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
    - Provide documentation on steps that have been taken to prevent future sampling omissions
    - Contact the Department to determine if increased sampling is required

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for the case manager to visit your facility to discuss the item(s) of concern.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Chandler Hammond of the Central District Office at 407-897-4313 or via e-mail at Chandler.Hammond@FloridaDEP.gov . We look forward to your cooperation with this matter.

Sincerely,

Jill Farris, Environmental Manager
Central District
Florida Department of Environmental Protection

EXHIBIT 13

FLORIDA DEPARTMENT OF
Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, Owner/Office manager
Sunshine Utilities of Central FL, Inc.
10230 SE Highway 25
Belleview, FL 34420
sunshineutl@aol.com
sunshineutilities@aol.com

Re: Compliance Assistance Offer
Quail Run Subdivision
3424046
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 7, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not perform required testing for *Secondary Foaming Agents* sampling/testing, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.

- Provide documentation on steps that have been taken to prevent future sampling omissions.
- Contact the Department to determine if increased sampling is required, or

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Alyssa Lenkel of the Central District Office at 407-897-2964 or via e-mail at Alyssa.Lenkel@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

David Smicherko

David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Alyssa Lenkel, FDEP
Kelvin Edun, universalwaters94@yahoo.com
Operator, bluejay2415@aol.com

EXHIBIT 14

FLORIDA DEPARTMENT OF
Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, Owner/Office manager
Sunshine Utilities of Central FL, Inc.
10230 SE Highway 25
Belleview, FL 34420
sunshineutl@aol.com
sunshineutilities@aol.com

Re: Compliance Assistance Offer
Whispering Sands
3424009
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 7, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not perform required testing for *Synthetic Organic contaminant Endothall* sampling/testing, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.

- Provide documentation on steps that have been taken to prevent future sampling omissions.
- Contact the Department to determine if increased sampling is required, or

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Alyssa Lenkel of the Central District Office at 407-897-2964 or via e-mail at Alyssa.Lenkel@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Alyssa Lenkel, FDEP
Kelvin Edun, universalwaters94@yahoo.com
Operator, bluejay2415@aol.com >

EXHIBIT 15

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, President
Sunshine Utilities of Central Florida Inc.
10230 East Highway 25
Belleview, Florida 34420-5531
SunshineUTL@aol.com

Re: Compliance Assistance Offer
Belleview Oaks Estates
PWS: 3424621
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 8, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for *radiological contaminants: radium-228, radium-226, combined uranium, and gross alpha particles excluding radon and uranium* on time, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by January 10, 2022 and was submitted late. The report was received by the Department on January 27, 2022.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
   - Provide documentation on steps that have been taken to prevent future sampling omissions.
   - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Case Manager Name of the Central District Office at 407-897-4337 or via e-mail at Kymberlee.OsborneBenthaus@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

Jason Seyfert, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Kymberlee Osborne-Benthaus, FDEP

EXHIBIT 16

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 10, 2022

Dewaine Christmas, Owner/Office manager
Sunshine Utilities of Central FL, Inc.
10230 SE Highway 25
Belleview, FL 34420
sunshineutl@aol.com
sunshineutilities@aol.com

Re: Compliance Assistance Offer
Fore Oaks Estates
3424644
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 2, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for *Radiological* contaminants on time, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by January 10, 2022 and was submitted late. The report was received by the Department on January 27, 2022.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
   - Provide documentation on steps that have been taken to prevent future sampling omissions.
   - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Alyssa Lenkel of the Central District Office at 407-897-2964 or via e-mail at Alyssa.Lenkel@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Alyssa Lenkel, FDEP
Kelvin Edun universalwaters94@yahoo.com
Operator, bluejay2415@aol.com
Aquapure, aquapurelisa@gmail.com

EXHIBIT 17

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

March 11, 2022

Dewaine Christmas, Owner/Office manager
Sunshine Utilities of Central FL, Inc.
10230 SE Highway 25
Belleview, FL 34420
sunshineutl@aol.com
sunshineutilities@aol.com

Re: Compliance Assistance Offer
Oakcrest Villas/Sun Resort
3421201
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on March 2, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not submit required reports for *Radiological* contaminants on time, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by January 10, 2022 and was submitted late. The report was received by the Department on January 11, 2022.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
   - Provide documentation on steps that have been taken to prevent future sampling omissions.
   - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Alyssa Lenkel of the Central District Office at 407-897-2964 or via e-mail at Alyssa.Lenkel@FloridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP
Alyssa Lenkel, FDEP
Kelvin Edun, universalwaters94@yahoo.com
Operator, bluejay2415@aol.com

EXHIBIT 18

PWS CERTIFICATION OF DELIVERY OF PUBLIC NOTICE

INSTRUCTIONS: The supplier of water, within ten days of completion of each public notification requirement pursuant to Part IV of Chapter 62-560, Florida Administrative Code, shall submit to the appropriate Department of Environmental Protection District Office or Approved County Health Department a completed DEP Form 62-555.900(22), Certification of Delivery of Public Notice, and include with the form a representative copy of each type of notice distributed, published, posted, and made available to the persons served by the system, and the media. All information provided on this form shall be typed or printed in ink.

I. General Information

Public Water System (PWS) Name: Little Lake Weir		
PWS ID: 3420761		
PWS Type: ☒ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community		
PWS Owner: Sunshine Utilities		
Contact Person: Dewaine Christmas	Contact Person's Title: Manager	
Contact Person's Mailing Address: 10230 East Highway 25		
City: Belleview	State: Fl	Zip Code: 34420
Contact Person's Telephone Number: (352)347-8228	Contact Person's Fax Number: (352)347-6915	
Contact Person's E-Mail Address: SunshineUtl@aol.com		

II. Certification

For Violation/Situation: Missed 3rd Quarter DBP's

Date of Occurrence:

Consultation Date:

Delivery Methods:	☐Radio/TV	☒Mail	☐Newspaper	☐ Hand Delivery	☐Posting	☐Other(describe)
Delivery Date/s:		12/14/2017				

I am duly authorized to sign this form on behalf of the public water system identified in Part I of this form. I certify that the information provided on this form is correct to the best of my knowledge and that public notice has been provided to consumers in accordance with the delivery, content, and format requirements and deadlines in Chapter 62-560, Florida Administrative Code.

12/19/17	Dewaine Christmas	Manager
Signature and Date	Printed or Typed Name	Title

RECEIVED
DEC 22 2017
DEP Central Dist.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Little Lake Weir

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 3rd quarter of this year, we did not monitor for TTHM and HAA5 therefore cannot be sure of the quality of our drinking water during that time. However, we did resample during the 4th quarter and the results show that the concentration of TTHM (**1.09 ug/L**) and HAA5 (**1.60 ug/L**) is under the Maximum Contaminate Level (MCL) (TTHM = 80 ug/L ; HAA5 = 60 ug/L).

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 system, and may have an increased risk of getting cancer.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer

What should I do?

There is nothing you need to do at this time.

What happened? What is being done?

We have since taken the required samples on 11/13/17.

For more information, please contact Dewaine Christmas at (352)347-8228 or Sunshine Utilities, 10230 East Highway 25, Belleview, FL 34420.

> *Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by Sunshine Utilities. State Water System ID#: 3420761.
Date distributed: 12/14/2017

EXHIBIT 19

PWS CERTIFICATION OF DELIVERY OF PUBLIC NOTICE

INSTRUCTIONS: The supplier of water, within ten days of completion of each public notification requirement pursuant to Part IV of Chapter 62-560, Florida Administrative Code, shall submit to the appropriate Department of Environmental Protection District Office or Approved County Health Department a completed DEP Form 62-555.900(22), Certification of Delivery of Public Notice, and include with the form a representative copy of each type of notice distributed, published, posted, and made available to the persons served by the system, and the media. All information provided on this form shall be typed or printed in ink.

I. General Information		
Public Water System (PWS) Name: Ocala Heights		
PWS ID: 3424651		
PWS Type: ☒ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community		
PWS Owner: Sunshine Utilities		
Contact Person: Dewaine Christmas	Contact Person's Title: Manager	
Contact Person's Mailing Address: 10230 East Highway 25		
City: Belleview	State: Fl	Zip Code: 34420
Contact Person's Telephone Number: (352)347-8228	Contact Person's Fax Number: (352)347-6915	
Contact Person's E-Mail Address: SunshineUtl@aol.com		

II. Certification						
For Violation/Situation: Missed 3rd Quarter DBP's						
Date of Occurrence:						
Consultation Date:						
Delivery Methods:	☐Radio/TV	☒Mail	☐Newspaper	☐ Hand Delivery	☐Posting	☐Other(describe)
Delivery Date/s:		12/14/2017				

I am duly authorized to sign this form on behalf of the public water system identified in Part I of this form. I certify that the information provided on this form is correct to the best of my knowledge and that public notice has been provided to consumers in accordance with the delivery, content, and format requirements and deadlines in Chapter 62-560, Florida Administrative Code.

Signature and Date	Printed or Typed Name	Title
12/19/17	Dewaine Christmas	Manager

RECEIVED
DEC 2 2 2017
DEP Central Dist.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Ocala Heights

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 3rd quarter of this year, we did not monitor for TTHM and HAA5 therefore cannot be sure of the quality of our drinking water during that time. However, we did resample during the 4th quarter and the results show that the concentration of TTHM (**0.82 ug/L**) and HAA5 (**0.52 ug/L**) is under the Maximum Contaminate Level (MCL) (TTHM = 80 ug/L ; HAA5 = 60 ug/L).

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 system, and may have an increased risk of getting cancer.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer

What should I do?

There is nothing you need to do at this time.

What happened? What is being done?

We have since taken the required samples on 11/7/17.

For more information, please contact Dewaine Christmas at (352)347-8228 or Sunshine Utilities, 10230 East Highway 25, Belleview, FL 34420.

> *Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by Sunshine Utilities. State Water System ID#: 3424651.
Date distributed: 12/14/2017

EXHIBIT 20

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

November 15, 2019

Dewaine Christmas, Facility Owner
Sunshine Utilities of Central FL Inc.
10230 SE HWY 25
Belleview, FL. 34420
SUNSHINEUTL@AOL.COM

Re: Compliance Assistance Offer
Ocala Heights S/D
PW 3424651
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on October 30, 2019. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not perform required testing for *Disinfection By-Products* sampling, which were required to be performed annually per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. Upon investigation, an email conversation confirmed that the samples were not collected.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
    - Provide documentation on steps that have been taken to prevent future sampling omissions
    - Contact the Department to determine if increased sampling is required

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for the case manager to visit your facility to discuss the item(s) of concern.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Chandler Hammond of the Central District Office at 407-897-4313 or via e-mail at Chandler.Hammond@FloridaDEP.gov . We look forward to your cooperation with this matter.

Sincerely,

Jill Farris, Environmental Manager
Central District
Florida Department of Environmental Protection

cc:
Universal Waters, Operator
BLUEJAY2415@AOL.COM

EXHIBIT 21

PWS CERTIFICATION OF DELIVERY OF PUBLIC NOTICE

INSTRUCTIONS: The supplier of water, within ten days of completion of each public notification requirement pursuant to Part IV of Chapter 62-560, Florida Administrative Code, shall submit to the appropriate Department of Environmental Protection District Office or Approved County Health Department a completed DEP Form 62-555.900(22), Certification of Delivery of Public Notice, and include with the form a representative copy of each type of notice distributed, published, posted, and made available to the persons served by the system, and the media. All information provided on this form shall be typed or printed in ink.

I. General Information		
Public Water System (PWS) Name: Ocala Heights		
PWS ID: 3424651		
PWS Type: ☑ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community		
PWS Owner: Sunshine Utilities		
Contact Person: Dowaine Christmas	Contact Person's Title: Manager	
Contact Person's Mailing Address: 10230 E Hwy 25		
City: Belleview	State: FL	Zip Code: 34420
Contact Person's Telephone Number: 352 347 8228	Contact Person's Fax Number: 352-347-6915	
Contact Person's E-Mail Address: Sunshineutl@AOL.com		

II. Certification						
For Violation/Situation: Failure to take DBP in 3rd Quarter 2019						
Date of Occurrence:						
Consultation Date:						
Delivery Methods:	☐ Radio/TV	☑ Mail	☐ Newspaper	☐ Hand Delivery	☐ Posting	☐ Other(describe)
Delivery Date/s:		1/21/2020				

I am duly authorized to sign this form on behalf of the public water system identified in Part I of this form. I certify that the information provided on this form is correct to the best of my knowledge and that public notice has been provided to consumers in accordance with the delivery, content, and format requirements and deadlines in Chapter 62-560, Florida Administrative Code.

1/22/2020	Dowaine Christmas	Manager
Signature and Date	Printed or Typed Name	Title

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Ocala Heights

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During **3rd quarter** we did not monitor for disinfection by-products and therefore cannot be sure of the quality of our drinking water during that time.

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 system, and may have an increased risk of getting cancer.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

What should I do?

There is nothing you need to do at this time.

What happened? What is being done?

We have since taken the required samples on December 12, 2019 and the results were Total Haloaecetic Acids (HAA5) had an Analysis Result of 0.91 Micro Grams per Liter with a Maximum Contaminant Level (MCL) of 60 Micro Grams per Liter.

Total Trihalomethanes (TTHM)) had an Analysis Result of 3.38 Micro Grams per Liter with a Maximum Contaminant Level (MCL) of 80 Micro Grams per Liter.

For more information, please contact Dewaine Christmas at (352)347-8228 or Sunshine Utilities, 10230 East Hwy 25, Belleview, FL 34420.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by Sunshine Utilities.
State Water System ID#: 3424651
Date distributed: January 21 , 2020

EXHIBIT 22

PWS CERTIFICATION OF DELIVERY OF PUBLIC NOTICE

INSTRUCTIONS: The supplier of water, within ten days of completion of each public notification requirement pursuant to Part IV of Chapter 62-560, Florida Administrative Code, shall submit to the appropriate Department of Environmental Protection District Office or Approved County Health Department a completed DEP Form 62-555.900(22), Certification of Delivery of Public Notice, and include with the form a representative copy of each type of notice distributed, published, posted, and made available to the persons served by the system, and the media. All information provided on this form shall be typed or printed in ink.

I. General Information		
Public Water System (PWS) Name: Sandy Acres		
PWS ID: 3421118		
PWS Type: ☒ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community		
PWS Owner: Sunshine Utilities		
Contact Person: Dewaine Christmas	Contact Person's Title: Manager	
Contact Person's Mailing Address: 10230 East Highway 25		
City: Belleview	State: Fl	Zip Code: 34420
Contact Person's Telephone Number: (352)347-8228	Contact Person's Fax Number: (352)347-6915	
Contact Person's E-Mail Address: SunshineUtl@aol.com		

II. Certification						
For Violation/Situation: Missed 3rd Quarter DBP's						
Date of Occurrence:						
Consultation Date:						
Delivery Methods:	☐Radio/TV	☒Mail	☐Newspaper	☐ Hand Delivery	☐Posting	☐Other(describe)
Delivery Date/s:		12/14/2017				

I am duly authorized to sign this form on behalf of the public water system identified in Part I of this form. I certify that the information provided on this form is correct to the best of my knowledge and that public notice has been provided to consumers in accordance with the delivery, content, and format requirements and deadlines in Chapter 62-560, Florida Administrative Code.

Signature and Date	Printed or Typed Name	Title
12/19/17	Dewaine Christmas	Manager

RECEIVED
DEC 2 2 2017
DEP Central Dist.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Sandy Acres

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 3rd quarter of this year, we did not monitor for TTHM and HAA5 therefore cannot be sure of the quality of our drinking water during that time. However, we did resample during the 4th quarter and the results show that the concentration of TTHM (**0.82 ug/L**) and HAA5 (**1.98 ug/L**) is under the Maximum Contaminate Level (MCL) (TTHM = 80 ug/L ; HAA5 = 60 ug/L).

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 system, and may have an increased risk of getting cancer.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer

What should I do?

There is nothing you need to do at this time.

What happened? What is being done?

We have since taken the required samples on 11/13/17.

For more information, please contact Dewaine Christmas at (352)347-8228 or Sunshine Utilities, 10230 East Highway 25, Belleview, FL 34420.

> *Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by Sunshine Utilities. State Water System ID#: 3421118.
Date distributed: 12/14/2017

EXHIBIT 23

PWS CERTIFICATION OF DELIVERY OF PUBLIC NOTICE

INSTRUCTIONS: The supplier of water, within ten days of completion of each public notification requirement pursuant to Part IV of Chapter 62-560, Florida Administrative Code, shall submit to the appropriate Department of Environmental Protection District Office or Approved County Health Department a completed DEP Form 62-555.900(22), Certification of Delivery of Public Notice, and include with the form a representative copy of each type of notice distributed, published, posted, and made available to the persons served by the system, and the media. All information provided on this form shall be typed or printed in ink.

I. General Information		
Public Water System (PWS) Name: Sunray		
PWS ID: 3421314		
PWS Type: ☒ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community		
PWS Owner: Sunshine Utilities		
Contact Person: Dewaine Christmas	Contact Person's Title: Manager	
Contact Person's Mailing Address: 10230 East Highway 25		
City: Belleview	State: Fl	Zip Code: 34420
Contact Person's Telephone Number: (352)347-8228	Contact Person's Fax Number: (352)347-6915	
Contact Person's E-Mail Address: SunshineUtl@aol.com		

II. Certification						
For Violation/Situation: Missed 3rd Quarter DBP's						
Date of Occurrence:						
Consultation Date:						
Delivery Methods:	☐Radio/TV	☒Mail	☐Newspaper	☐ Hand Delivery	☐Posting	☐Other(describe)
Delivery Date/s:		12/14/2017				

I am duly authorized to sign this form on behalf of the public water system identified in Part I of this form. I certify that the information provided on this form is correct to the best of my knowledge and that public notice has been provided to consumers in accordance with the delivery, content, and format requirements and deadlines in Chapter 62-560, Florida Administrative Code.

Signature and Date	Printed or Typed Name	Title
12/19/17	Dewaine Christmas	Manager

RECEIVED
DEC 22 2017
DEP Central Dist.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Sunray

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 3rd quarter of this year, we did not monitor for TTHM and HAA5 therefore cannot be sure of the quality of our drinking water during that time. However, we did resample during the 4th quarter and the results show that the concentration of TTHM (**1.02 ug/L**) and HAA5 (**0.52 ug/L**) is under the Maximum Contaminate Level (MCL) (TTHM = 80 ug/L ; HAA5 = 60 ug/L).

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 system, and may have an increased risk of getting cancer.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer

What should I do?

There is nothing you need to do at this time.

What happened? What is being done?

We have since taken the required samples on 11/7/17.

For more information, please contact Dewaine Christmas at (352)347-8228 or Sunshine Utilities, 10230 East Highway 25, Belleview, FL 34420.

> *Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by Sunshine Utilities. State Water System ID#: 3421314.
Date distributed: 12/14/2017

EXHIBIT 24

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

November 15, 2019

Dewaine Christmas, Facility Contact
Sunshine Utilities of Central Florida Inc.
NE 35th Ave
Ocala, FL. 34471
SUNSHINEUTL@AOL.COM

Re: Compliance Assistance Offer
Sun Ray Estates
PW 3421314
Marion County

Dear Mr. Christmas:

A file review was conducted on your facility on October 30, 2019. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not perform required testing for *Disinfection By-Product* sampling, which were required to be performed annually per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. Upon investigation, an email conversation confirmed that the samples were not collected.

We request you review the item(s) of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
    - A sample for the missed contaminant must be collected immediately and delivered to an approved laboratory, with analysis results submitted to this office within 14 days of the date of this letter.
    - Distribute a public notice in accordance with 62-560.410 F.A.C. Submit a draft of the public notice to the Department prior to issuance.
    - Provide documentation on steps that have been taken to prevent future sampling omissions
    - Contact the Department to determine if increased sampling is required

2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for the case manager to visit your facility to discuss the item(s) of concern.

It is the Department's desire that you are able adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Chandler Hammond of the Central District Office at 407-897-4313 or via e-mail at Chandler.Hammond@FloridaDEP.gov . We look forward to your cooperation with this matter.

Sincerely,

Jill Farris, Environmental Manager
Central District
Florida Department of Environmental Protection

cc:
Universal Waters, Operator
BLUEJAY2415@AOL.COM

EXHIBIT 25

FLORIDA DEPARTMENT OF
Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

December 21, 2021

Dewaine Christmas, Manager
Sunshine Utilities of Central FL, Inc.
3420 NE 22nd Ct
Ocala, FL 34479
sunshineutl@aol.com

Re: Warning Letter
Sun Ray Estates
PWS ID No. 3421314
Marion County

Dear Mr. Christmas:

On December 21, 2021, a file review of monitoring requirements indicates possible violations continue to exist and must be addressed as soon as possible:

- Failure to monitor for *Disinfection By-Products* contaminants during September 2021 (62-550.730, 62-550.500(2), 62-550.822 F.A.C.)

Violations of Florida Statutes or administrative rules may result in liability for damages and restoration, and the judicial imposition of civil penalties, pursuant to Sections 403.121(4)(d) and 403.161(1)(b).

Contact Miranda Rothenberger, at 407-897-4301 within **7 days** of receipt of this Warning Letter to arrange a meeting to discuss this matter. The Department is interested in receiving any facts you may have that will assist in determining whether any violations have occurred. You may bring anyone with you to the meeting that you feel could help resolve this matter.

Please be advised that this Warning Letter is part of an agency investigation, preliminary to agency action in accordance with Section 120.57(5), Florida Statutes. We look forward to your cooperation in completing the investigation and resolving this matter.

Sincerely,

On behalf of:

Aaron Watkins, Director
Central District
Florida Department of Environmental Protection

AW/nh/mr

EXHIBIT 26

FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

January 21, 2022

Dewaine Christmas, Manager
Sunshine Utilities of Central FL, Inc.
3420 NE 22nd Ct
Ocala, FL 34479
sunshineutl@aol.com

Re: Sun Ray Estates
PW Facility ID #3421314
OGC Case #22-0122

Dear Mr. Christmas:

Enclosed is the executed Consent Order to resolve the above referenced case. This copy is for your records.

Should you have any questions or comments, please contact Miranda Rothenberger at 407-897-4301 or via e-mail at Miranda.Rothenberger@FloridaDEP.gov.

Your cooperation in this matter will be appreciated.

Sincerely,

On behalf of:
Aaron Watkins
Director, Central District

Enclosure

cc: Lea Crandall, OGC
Zoey Carr, Central District
Daun Festa, Central District
Miranda Rothenberger, Central District

FLORIDA DEPARTMENT OF
Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

January 19, 2022

Sunshine Utilities of Central Florida, Inc.
Dewaine Christmas, President
10230 East Hwy 25
Belleview, Florida 34420
sunshineutl@aol.com

SUBJECT: Department of Environmental Protection v. Sunshine Utilities of Central Florida, Inc., OGC File No.: 22-0122
Facility Name: Sun Ray Estates
PWS ID No.: 3421314
3420 NE 22nd Ct
Ocala, Florida 34479

Mr. Christmas:

The State of Florida Department of Environmental Protection ("Department") finds that Sunshine Utilities of Central Florida, Inc. ("Respondent") failed to monitor for disinfection by-products (DBPs) in 2021 during the month of September as specified on the sampling plan for Sun Ray Estates, in violation of 40 Code of Federal Regulations (CFR) 141.620(c)(6)(ii) as adopted in 62-550.514(2)(b), Florida Administrative Code (F.A.C.). Although there are no actions required to correct the violation, the Respondent remains subject to civil penalties as a result of the violation. The Respondent is also responsible for costs incurred by the Department during the investigation of this matter.

The Department's Offer

Based on the violations described above, the Department is seeking $ 1,000.00 in civil penalties and $ 150.00 for costs and expenses the Department has incurred in investigating this matter, which amounts to a total of $ 1,150.00. The civil penalties are apportioned as follows: $ 1,000 for violation of 40 CFR 141.620(c)(6)(ii) as adopted in 62-550.514(2)(b), F.A.C.

Respondent's Acceptance

If you wish to accept this offer and fully resolve the enforcement matter pending against the Respondent, please sign this letter and return it to the Department at 3319 Maguire Blvd, Ste 232, Orlando, Florida 32803 by February 9, 2022. The Department will then countersign it and file it with a designated clerk of the Department. Once the document is filed with the designated clerk, it will constitute a final order of the Department pursuant to Section 120.52(7), F.S. and will be effective unless a request for an administrative hearing is filed by a third party in accordance with Chapter 120, F.S. and the attached Notice of Rights.

By accepting this offer you, Dewaine Christmas:

(1) certify that you are authorized and empowered to negotiate, enter into, and accept the terms of this offer in the name and on behalf of Respondent;

(2) acknowledge and waive Respondent's right to an administrative hearing pursuant to Sections 120.569 and 120.57, F.S., on the terms of this offer, once final;

(3) acknowledge and waive Respondent's right to an appeal pursuant to Section 120.68, F.S.; and

(4) acknowledge that payment of the above amount does not constitute a waiver of the Department's right, if any, to recover emergency response related costs and expenses for this matter.

The Department acknowledges that the Respondent's acceptance of this offer does not constitute an admission of liability for the violation(s) referenced above.

Respondent's Performance

After signing and returning this document to the Department,

(1) Respondent must pay $ 1,150 in full by February 23, 2022.

(2) Respondent shall make all payments required by this Order by cashier's check, money order or on-line payment. Cashier's check or money order shall be made payable to the "Department of Environmental Protection" and shall include both the OGC number assigned to this Order and the notation "Water Quality Assurance Trust Fund." Online payments by e-check can be made by going to the DEP Business Portal at: http://www.fldepportal.com/go/pay/
It will take a number of days after this order is final, effective and filed with the Clerk of the Department before ability to make online payment is available.

The Department may enforce the terms of this document, once final, and seek to collect monies owed pursuant to Sections 120.69 and 403.121, F.S.

Until clerked by the Department, this letter is only a settlement offer and not a final agency action. Consequently, neither the Respondent nor any other party may request an administrative hearing to contest this letter pursuant to Chapter 120, F.S. Once this letter is clerked and becomes a final order of the Department, as explained above, the attached Notice of Rights will apply to parties, other than the Respondent, whose interests will be substantially affected.

Electronic signatures or other versions of the parties' signatures, such as .pdf or facsimile, shall be valid and have the same force and effect as originals. No modifications of the terms of this Order will be effective until reduced to writing, executed by both Respondent and the Department, and filed with the clerk of the Department.

Please be aware that if the Respondent declines to respond to the Department's offer, the Department will assume that the Respondent is not interested in resolving the matter and will proceed accordingly.

If you have any questions, please contact Miranda Rothenberger at 407-897-4301 or at Miranda.Rothenberger@FloridaDEP.gov.

Sincerely,

Aaron Watkins
District Director
Central District

FOR THE RESPONDENT:

I, Dewaine Christmas [Type or Print Name], **HEREBY ACCEPT THE TERMS OF THE SETTLEMENT OFFER IDENTIFIED ABOVE.**

By: _____ Date: 1/19/22
[Signature]

Title: President
[Type or Print]

FOR DEPARTMENT USE ONLY

DONE AND ORDERED this 20 day of January, 2022, in Orange County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

_____ on behalf of
Aaron Watkins
District Director
Central District

Filed, on this date, pursuant to section 120.52, F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.

_____ January 20, 2022
Clerk Date

Attachments: Notice of Rights

Final clerked copy furnished to:
Lea Crandall, Agency Clerk (lea.crandall@dep.state.fl.us)
Miranda Rothenberger, Central District (miranda.rothenberger@FloridaDEP.gov)

NOTICE OF RIGHTS

Persons who are not parties to this Order, but whose substantial interests are affected by it, have a right to petition for an administrative hearing under Sections 120.569 and 120.57, Florida Statutes. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition concerning this Order means that the Department's final action may be different from the position it has taken in the Order.

The petition for administrative hearing must contain all of 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, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; 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 when and how 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 the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed 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 the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received) at the Department's Office of General Counsel, 3900 Commonwealth Boulevard, MS# 35, Tallahassee, Florida 32399-3000 or received via electronic correspondence at Agency_Clerk@floridadep.gov, within 21 days of receipt of this notice. A copy of the petition must also be mailed at the time of filing to the District Office at the address indicated above. Failure to file a petition within the 21-day period constitutes a person's waiver of the right to request an administrative hearing and to participate as a party to this proceeding under Sections 120.569 and 120.57, Florida Statutes. Mediation under Section 120.573, Florida Statutes, is not available in this proceeding.

EXHIBIT 27

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.]

Ellia Ruggiero

Inspector Signature

Ellia Ruggiero
Printed Name

Environmental Specialist
Title

7/28/2020
Date

David Smicherko

Reviewer Signature

David Smicherko
Printed Name

Environmental Manager
Title

8/18/2020
Date

EXHIBIT 28

PWS CERTIFICATION OF DELIVERY OF PUBLIC NOTICE

INSTRUCTIONS: The supplier of water, within ten days of completion of each public notification requirement pursuant to Part IV of Chapter 62-560, Florida Administrative Code, shall submit to the appropriate Department of Environmental Protection District Office or Approved County Health Department a completed DEP Form 62-555.900(22), Certification of Delivery of Public Notice, and include with the form a representative copy of each type of notice distributed, published, posted, and made available to the persons served by the system, and the media. All information provided on this form shall be typed or printed in ink.

I. General Information		
Public Water System (PWS) Name: Winding Waters		
PWS ID: 3424691		
PWS Type: ☒ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community		
PWS Owner: Sunshine Utilities		
Contact Person: Dewaine Christmas	Contact Person's Title: Manager	
Contact Person's Mailing Address: 10230 East Highway 25		
City: Belleview	State: Fl	Zip Code: 34420
Contact Person's Telephone Number: (352)347-8228	Contact Person's Fax Number: (352)347-6915	
Contact Person's E-Mail Address: SunshineUtl@aol.com		

II. Certification						
For Violation/Situation: Missed 3rd Quarter DBP's						
Date of Occurrence:						
Consultation Date:						
Delivery Methods:	☐Radio/TV	☒Mail	☐Newspaper	☐ Hand Delivery	☐Posting	☐Other(describe)
Delivery Date/s:		12/14/2017				

I am duly authorized to sign this form on behalf of the public water system identified in Part I of this form. I certify that the information provided on this form is correct to the best of my knowledge and that public notice has been provided to consumers in accordance with the delivery, content, and format requirements and deadlines in Chapter 62-560, Florida Administrative Code.

Signature and Date	Printed or Typed Name	Title
12/18/17	Dewaine Christmas	Manager

RECEIVED
DEC 22 2017
DEP Central Dist.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Winding Waters

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 3rd quarter of this year, we did not monitor for TTHM and HAA5 therefore cannot be sure of the quality of our drinking water during that time. However, we did resample during the 4th quarter and the results show that the concentration of TTHM (**3.30 ug/L**) and HAA5 (**0.52 ug/L**) is under the Maximum Contaminate Level (MCL) (TTHM = 80 ug/L ; HAA5 = 60 ug/L).

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 system, and may have an increased risk of getting cancer.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer

What should I do?

There is nothing you need to do at this time.

What happened? What is being done?

We have since taken the required samples on 11/7/17.

For more information, please contact Dewaine Christmas at (352)347-8228 or Sunshine Utilities, 10230 East Highway 25, Belleview, FL 34420.

> *Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by Sunshine Utilities. State Water System ID#: 3424691.
Date distributed: 12/14/2017

EXHIBIT 29

Belleview Oaks W SDWIS

Primacy Agency	Primary Source	PWS ID	PWS Name	Activity Status	PWS Type	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	Ground water	FL3424621	BELLEVIEW OAKS ESTATES	Active	Community water system	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2018	20-Nov-2018	Returned to Compliance	26-Nov-2018
Florida	Ground water	FL3424621	BELLEVIEW OAKS ESTATES	Active	Community water system	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2018	20-Nov-2018	Returned to Compliance	26-Nov-2018

Summary

Missed DBP monitoring

Country Walk W SDWIS

Primacy Agency	Primary Source	PWS ID	PWS Name	Service Connections Count	Activity Status	PWS Type	Rule Name	Violation Type	Violation Category Code	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	Ground water	FL3424657	COUNTRY WALK	71	Active	Community water system	Synthetic Organic Chemicals	Monitoring, Regular	MR	Y	01-Jan-2020	31-Dec-2021	14-Jun-2022	Returned to Compliance	16-May-2022

Summary One SOC violation

Eleven Oaks W SDWIS

Primacy Agency	Primary Source	PWS ID	PWS Name	Service Connections Count	Activity Status	PWS Type	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	Compliance Status	RTC Date	V First Reported Date
Florida	Ground water	FL3424099	ELEVEN OAKS SUBDIVISION	42	Active	Community water system	Synthetic Organic Chemicals	Monitoring, Regular	N	Y	01-Jan-2020	31-Dec-2021	Returned to Compliance	14-Jun-2022	16-May-2022

Summary SOC monitoring violation returned to compliance

Florida Heights W SDWIS

Primacy Agency	PWS ID	PWS Name	Primary Source	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3424031	FLORIDA HEIGHTS S/D	Ground water	Synthetic Organic Chemicals	Monitoring, Regular	N	Y	01-Jan-2020	31-Dec-2021	14-Jun-2022	Returned to Compliance	16-May-2022

Summary: Missing SOC sample

Floyd Creek W SDWIS

Primacy Agency	Primary Source	PWS ID	PWS Name	Service Connections Count	Activity Status	PWS Type	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	Compliance Status	RTC Date	V First Reported Date
Florida	Ground water	FL3420411	FLOYD CLARK SUBDIVISION	80	Active	Community water system	Synthetic Organic Chemicals	Monitoring, Regular	N	Y	01-Jan-2020	31-Dec-2021	Returned to Compliance	14-Jun-2022	16-May-2022

Summary One SOC violation

Fore Oaks W SDWIS

Primacy Agency	PWS ID	PWS Name	Primary Source	Service Connections Count	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3424644	FORE OAKS ESTATES	Ground water	232	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2020	31-Dec-2020	25-Nov-2020	Returned to Compliance	17-Nov-2020
Florida	FL3424644	FORE OAKS ESTATES	Ground water	232	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2020	31-Dec-2020	25-Nov-2020	Returned to Compliance	17-Nov-2020

Summary missed dbp monitoring, two parameters

Little Lake Weir W SDWIS

Primacy Agency	PWS ID	PWS Name	Service Connections Count	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3420761	LITTLE LAKE WEIR SUBDIVISION	455	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017
Florida	FL3420761	LITTLE LAKE WEIR SUBDIVISION	455	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017

Summary DBP monitoring violation 2017

Oak Haven W SDWIS

Primacy Agency	Primary Source	PWS ID	PWS Name	Service Connections Count	Activity Status	PWS Type	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	Ground water	FL3424106	OAK HAVEN QUADRUPLEXES	76	Active	Community water system	Synthetic Organic Chemicals	Monitoring, Regular	N	Y	01-Jan-2020	31-Dec-2021	14-Jun-2022	Returned to Compliance	16-May-2022

Summary One SOC violation

Ocala Garden Appt W SDWIS

Primacy Agency	Primary Source	PWS ID	PWS Name	Service Connections Count	Activity Status	PWS Type	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	Ground water	FL3421554	OCALA GARDEN APARTMENTS	26	Active	Community water system	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2018	26-Oct-2018	Returned to Compliance	26-Nov-2018
Florida	Ground water	FL3421554	OCALA GARDEN APARTMENTS	26	Active	Community water system	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2018	26-Oct-2018	Returned to Compliance	26-Nov-2018

Summary DBP monitoring violations

Summary DBP monitoring violation 2017

Ocala Heights W SDWIS

Primacy Agency	PWS ID	PWS Name	Primary Source	Service Connections Count	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3424651	OCALA HEIGHTS S/D	Ground water	418	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017
Florida	FL3424651	OCALA HEIGHTS S/D	Ground water	418	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017
Florida	FL3424651	OCALA HEIGHTS S/D	Ground water	418	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2019	31-Dec-2019	23-Jan-2020	Returned to Compliance	20-Nov-2019
Florida	FL3424651	OCALA HEIGHTS S/D	Ground water	418	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2019	31-Dec-2019	23-Jan-2020	Returned to Compliance	20-Nov-2019
Florida	FL3424651	OCALA HEIGHTS S/D	Ground water	418	Ground Water Rule	Failure to Conduct Assessment Monitoring	N	Y	01-Oct-2020	31-Oct-2020	11-Dec-2020	Returned to Compliance	16-Feb-2021
Florida	FL3424651	OCALA HEIGHTS S/D	Ground water	418	Revised Total Coliform Rule	Monitoring, Routine (RTCR)	N	Y	01-Oct-2020	31-Oct-2020	11-Dec-2020	Returned to Compliance	16-Feb-2021

Summary

DBP 2017 and 2019 monitoring failure
failure to conduct assessment moitoring Oct 2020
RTCR monitoring violation Oct 2020

Ocklawaha W SDWIS

Primacy Agency	PWS ID	PWS Name	Primary Source	Service Connections Count	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3420939	OCKLAWAHA WATER WORKS (2 WTPS)	Ground water	386	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017
Florida	FL3420939	OCKLAWAHA WATER WORKS (2 WTPS)	Ground water	386	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017

Summary Missing DBP parameters for 2017

Quail Run W SDWIS

Primacy Agency	PWS ID	PWS Name	Primary Source	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3424046	QUAIL RUN SUBDIVISION	Ground water	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2018	08-Nov-2018	Returned to Compliance	26-Nov-2018
Florida	FL3424046	QUAIL RUN SUBDIVISION	Ground water	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2018	08-Nov-2018	Returned to Compliance	26-Nov-2018

Summary DBP monitoring violation

Sandy Acres W SDWIS

Primacy Agency	PWS ID	PWS Name	Primary Source	Service Connections Count	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3421118	SANDY ACRES	Ground water	271	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017
Florida	FL3421118	SANDY ACRES	Ground water	271	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017
Florida	FL3421118	SANDY ACRES	Ground water	271	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2018	31-Dec-2018	08-Nov-2018	Returned to Compliance	26-Nov-2018
Florida	FL3421118	SANDY ACRES	Ground water	271	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2018	31-Dec-2018	08-Nov-2018	Returned to Compliance	26-Nov-2018

Summary two sets of DBP missed sampling, consecutive years, two parameters each,

Sun Ray W SDWIS

Primacy Agency	PWS ID	PWS Name	Primary Source	Service Connections Count	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3421314	SUN RAY ESTATES	Ground water	596	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017
Florida	FL3421314	SUN RAY ESTATES	Ground water	596	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2017	22-Dec-2017	Returned to Compliance	01-Dec-2017
Florida	FL3421314	SUN RAY ESTATES	Ground water	596	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2019	31-Dec-2019	23-Jan-2020	Returned to Compliance	20-Nov-2019
Florida	FL3421314	SUN RAY ESTATES	Ground water	596	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2019	31-Dec-2019	23-Jan-2020	Returned to Compliance	20-Nov-2019
Florida	FL3421314	SUN RAY ESTATES	Ground water	596	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2021	31-Dec-2021	02-Mar-2022	Returned to Compliance	16-Feb-2022
Florida	FL3421314	SUN RAY ESTATES	Ground water	596	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2021	31-Dec-2021	02-Mar-2022	Returned to Compliance	16-Feb-2022

Summary DBP monitoring violations in 2017, 2019, and 2021

Sunlight Acres W SDWIS

Primacy Agency	Primary Source	PWS ID	PWS Name	Service Connections Count	Activity Status	PWS Type	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	Ground water	FL3421520	SUNLIGHT ACRES SUBDIVISION	70	Active	Community water system	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2018	08-Nov-2018	Returned to Compliance	26-Nov-2018
Florida	Ground water	FL3421520	SUNLIGHT ACRES SUBDIVISION	70	Active	Community water system	Stage 2 Disinfectants and Disinfection Byproducts Rule	Monitoring and Reporting (DBP)	N	Y	01-Jan-2017	31-Dec-2018	08-Nov-2018	Returned to Compliance	26-Nov-2018

Summary DBP monitoring violation

Whispering Sands W SDWIS

Primacy Agency	PWS ID	PWS Name	Primary Source	Service Connections Count	Rule Name	Violation Type	Is Health Based	Is Major Violation	Compliance Period Begin Date	Compliance Period End Date	RTC Date	Compliance Status	V First Reported Date
Florida	FL3424009	WHISPERING SANDS S/D	Ground water	127	Synthetic Organic Chemicals	Monitoring, Regular	N	Y	01-Jan-2020	31-Dec-2021	14-Jun-2022	Returned to Compliance	16-May-2022

Summary Single SOC missing sample

EXHIBIT 30

CLASS "A" OR "B"

WATER AND/OR WASTEWATER UTILITIES
(Gross Revenue of More Than $200,000 Each)

ANNUAL REPORT

OF

Sunshine Utilities of Central Florida, Inc.
Exact Legal Name of Respondent

363-W
Certificate Number(s)

Submitted To The

STATE OF FLORIDA

PUBLIC SERVICE COMMISSION

FOR THE

YEAR ENDED December 31, 2017

GENERAL INSTRUCTIONS

1. Prepare this report in conformity with the 1996 National Association of Regulatory Utility Commissioners Uniform System of Accounts for Water and/or Wastewater Utilities (USOA).

2. Interpret all accounting words and phrases in accordance with the USOA.

3. Complete each question fully and accurately, even if it has been answered in a previous annual report. Enter the word "None" where it truly and completely states the fact.

4. For any question, section, or page which is not applicable to the respondent, enter the words "Not Applicable". Do not omit any pages.

5. Where dates are called for, the month and day should be stated as well as the year.

6. All schedules requiring dollar entries should be rounded to the nearest dollar unless otherwise specifically indicated.

7. Complete this report by means which result in a permanent record, such as by computer or typewriter.

8. If there is not enough room on any schedule, an additional page or pages may be added; provided the format of the added schedule matches the format of the schedule with not enough room. Such a schedule should reference the appropriate schedules, state the name of the utility, and state the year of the report.

9. If it is necessary or desirable to insert additional statements for the purpose of further explanation of schedules, such statement should be made at the bottom of the page or an additional page inserted. Any additional pages should state the name of the utility, the year of the report, and reference the appropriate schedule.

10. For water and wastewater utilities with more than one rate group and/or system, water and wastewater pages should be completed for each rate group and/or system group. These pages should be grouped together and tabbed by rate group and/or system.

11. All other water and wastewater operations not regulated by the Commission and other regulated industries should be reported as "Other than Reporting Systems".

12. Financial information for multiple systems charging rates which are covered under the same tariff should be reported as one system. However, the engineering data must be reported by individual system.

13. For water and wastewater utilities with more than one system, one (1) copy of workpapers showing the consolidation of systems for the operating sections, should be filed with the annual report.

14. The report should be filled out in quadruplicate and the original and two copies returned by March 31, of the year following the date of the report. The report should be returned to:

Florida Public Service Commission
Division of Economic Regulation
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

The fourth copy should be retained by the utility.

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TABLE OF CONTENTS

EXECUTIVE SUMMARY

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

CERTIFICATION OF ANNUAL REPORT

I HEREBY CERTIFY, to the best of my knowledge and belief:

YES	NO		
X		1.	The utility is in substantial compliance with the Uniform System of Accounts prescribed by the Florida Public Service Commission.
X		2.	The utility is in substantial compliance with all applicable rules and orders of the Florida Public Service Commission.
X		3.	There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices that could have a material effect on the the financial statement of the utility.
X		4.	The annual report fairly represents the financial condition and results of operations of the respondent for the period presented and other information and statements presented in the the report as to the business affairs of the respondent are true, correct and complete for the period for which it represents.

Items Certified

1.	2.	3.	4.
X	X	X	X

(Signature of Chief Executive Officer of the utility) *

1.	2.	3.	4.

(Signature of Chief Financial Officer of the utility) *

* Each of the four items must be certified YES or NO. Each item need not be certified by both officers. The items being certified by the officer should be indicated in the appropriate area to the left of the signature.

NOTICE: Section 837.06, Florida Statutes, provides that any person who knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his duty shall be guilty of a misdemeanor of the second degree.

ANNUAL REPORT OF

YEAR OF REPORT
December 31, 2017

Sunshine Utilities of Central Florida, Inc. County: Marion

(Exact Name of Utility)

List below the exact mailing address of the utility for which normal correspondence should be sent:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228
E Mail Address:
WEB Site:

Sunshine State One-Call of Florida, Inc. Member Number SU-1134

Name and address of person to whom correspondence concerning this report should be addressed:
Josh Shilts
Villela & Shilts, LLC
910 SW 1st Avenue, Suite 201
Ocala, FL 34471
Telephone: (352) 237-3200

List below the address of where the utility's books and records are located:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228

List below any groups auditing or reviewing the records and operations:

Date of original organization of the utility: September 01, 1974

Check the appropriate business entity of the utility as filed with the Internal Revenue Service

Individual	Partnership	Sub S Corporation	1120 Corporation
		X	

List below every corporation or person owning or holding directly or indirectly 5% or more of the voting securities of the utility:

	Name	Percent Ownership
1.	"Hodges Family Trust - Christmas" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
2.	"Hodges Family Trust - Hodges" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
3.	"Hodges Family Trust - Rosin" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
4.	"Hodges Family Trust - Stone" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
5.	Trust split into four separate trust pursuant to QSST election IRC 1361 while maintaining	
6.	control by the co-trustees for the sole beneficiary of Clarise Hodges.	
7.		
8.		
9.		
10.		

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

DIRECTORY OF PERSONNEL WHO CONTACT THE FLORIDA PUBLIC SERVICE COMMISSION

NAME OF COMPANY REPRESENTATIVE (1)	TITLE OR POSITION (2)	ORGANIZATIONAL UNIT TITLE (3)	USUAL PURPOSE FOR CONTACT WITH FPSC
Dewaine W. Christmas	President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Pamela N. Christmas	Secretary	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Josh Shilts	CPA	Villela & Shilts, LLC 352-237-3200	Rate and Accounting Matters
James H Hodges, Jr.	Vice President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Jane M. Rop	Treasurer	Sunshine Utilities of Central Florida, Inc	All Utility Matters

(1) Also list appropriate legal counsel, accountants and others who may not be on general payroll.
(2) Provide individual telephone numbers if the person is not normally reached at the company.
(3) Name of company employed by if not on general payroll.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

COMPANY PROFILE

Provide a brief narrative company profile which covers the following areas:

A. Brief company history.
B. Public services rendered.
C. Major goals and objectives.
D. Major operating divisions and functions.
E. Current and projected growth patterns.
F. Major transactions having a material effect on operations.

A. The company was organized to provide potable water service to various subdivisions in Marion and Citrus Counties

B. The company provides water treatement and distribution services to customers in its certicated area.

C. The primary goal of the Company is to continue rendering quality service to its existing customers.

D. The Company provides water treatement and distribution services, only in Marion and Citrus Counties.

E. The Company expects to continue an average growth rate of approximately 1%.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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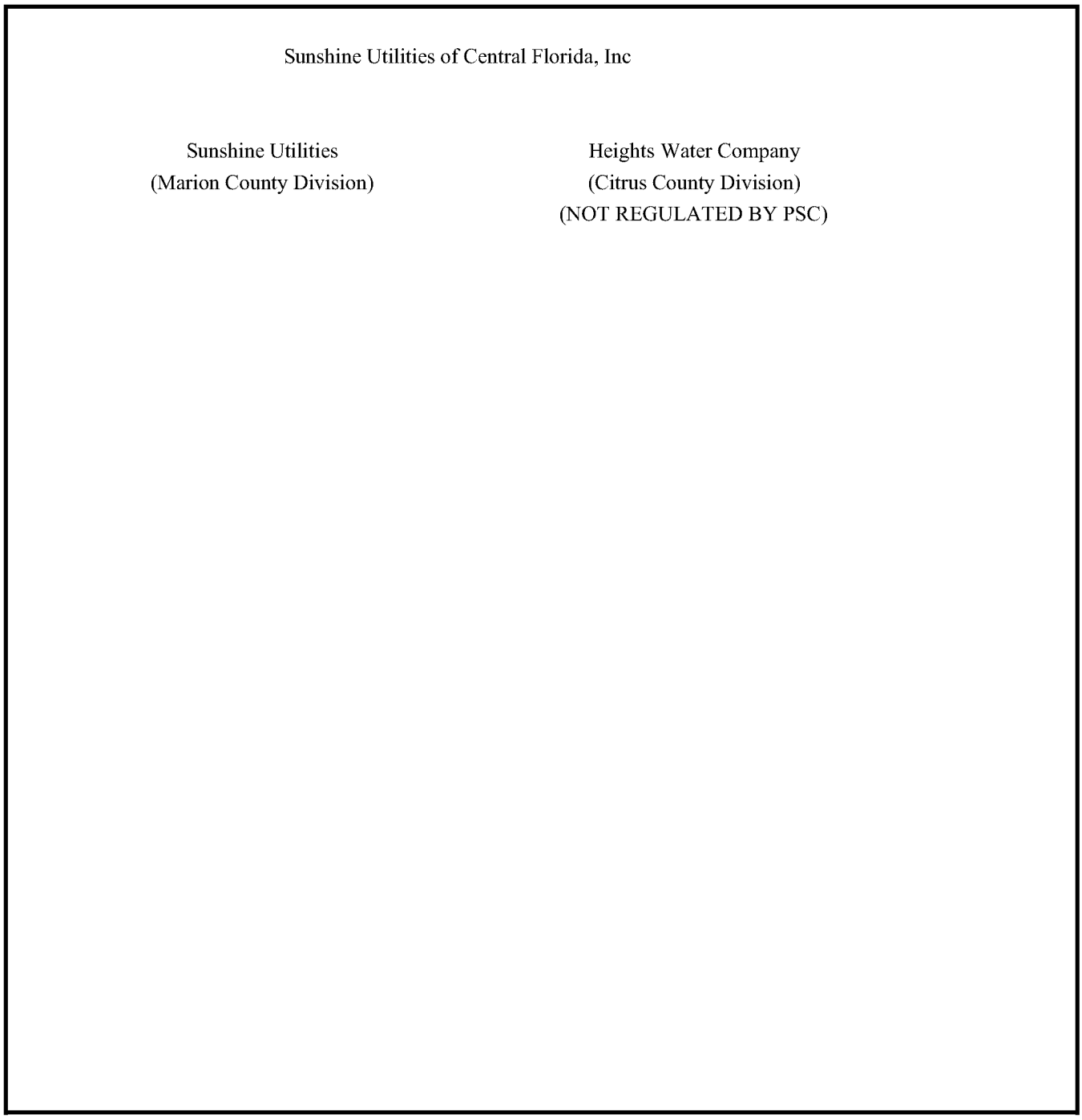
PARENT / AFFILIATE ORGANIZATION CHART

Current as of December 31, 2017

Complete below an organizational chart that show all parents, subsidiaries and affiliates of the utility.
The chart must also show the relationship between the utility and affiliates listed on E-7, E-10(a) and E-10(b).



UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

COMPENSATION OF OFFICERS

For each officer, list the time spent on respondent as an officer compared to time spent on total business activities and the compensation received as an officer from the respondent.

NAME (a)	TITLE (b)	% OF TIME SPENT AS OFFICER OF THE UTILITY (c)	OFFICERS' COMPENSATION (d)
Dewaine W. Christmas	President	100%	$ 60,990
James H. Hodges, Jr.	Vice President	100%	61,642
Pamela N. Christmas	Secretary	100%	45,957
Jane M. Rop	Treasurer	100%	45,121

COMPENSATION OF DIRECTORS

For each director, list the number of director meetings attended by each director and the compensation received as a director from the respondent.

NAME (a)	TITLE (b)	NUMBER OF DIRECTORS' MEETINGS ATTENDED (c)	DIRECTORS' COMPENSATION (d)
Dewaine W. Christmas	Director	100%	$ 0
James H. Hodges, Jr.	Director	100%	0

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

BUSINESS CONTRACTS WITH OFFICERS, DIRECTORS AND AFFILIATES

List all contracts, agreements, or other business arrangements* entered into during the calendar year (other than compensation related to position with Respondents) between the Respondent and officer and director listed on page E-6. In addition, provide the same information with respect to professional services for each firm, partnership, or organization with which the officer or director is affiliated.

NAME OF OFFICER, DIRECTOR OR AFFILIATE (a)	IDENTIFICATION OF SERVICE OR PRODUCT (b)	AMOUNT (c)	NAME AND ADDRESS OF AFFILIATED ENTITY (d)
None		$ -	

* Business Agreement, for this schedule, shall mean any oral or written business deal which binds the concerned parties for products or services during the reporting year or future years. Although the Respondent and/or other companies will benefit from the arrangement, the officer or director is, however, acting on his behalf or for the benefit of other companies or persons.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

AFFILIATION OF OFFICERS AND DIRECTORS

For each of the officials listed on page E-6, list the principal occupation or business affiliations or connections with any other business or financial organizations, firms, or partnerships. For purposes of this part, an official will be considered to have an affiliation with any business or financial organization, firm or partnership in which he is an officer, director, trustee, partner, or a person exercising similar functions.

NAME (a)	PRINCIPAL OCCUPATION OR BUSINESS AFFILIATION (b)	AFFILIATION OR CONNECTION (c)	NAME AND ADDRESS OF AFFILIATION OR CONNECTION (d)
None			

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

BUSINESSES WHICH ARE A BY-PRODUCT, COPRODUCT OR JOINT-PRODUCT RESULT OF PROVIDING WATER OR WASTEWATER SERVICE

Complete the following for any business which is conducted as a byproduct, coproduct, or joint product as a result of providing water and / or wastewater service. This would include any business which requires the use of utility land and facilities. Examples of these types of businesses would be orange groves, nurseries, tree farms, fertilizer manufacturing, etc. This would not include any business for which the assets are properly included in Account 121 - Nonutility Property along with the associated revenue and expenses segregated out as nonutility also.

	ASSETS		REVENUES		EXPENSES	
BUSINESS OR SERVICE CONDUCTED (a)	BOOK COST OF ASSETS (b)	ACCOUNT NUMBER (c)	REVENUES GENERATED (d)	ACCOUNT NUMBER (e)	EXPENSES INCURRED (f)	ACCOUNT NUMBER (g)
None	$		$		$	

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

BUSINESS TRANSACTIONS WITH RELATED PARTIES

List each contract, agreement, or other business transaction exceeding a cumulative amount of $500 in any on year, entered into between the Respondent and a business or financial organization, firm, or partnership named on pages E-2 and E-6, identifying the parties, amounts, dates and product, and asset, or service involved.

Part I. Specific Instructions: Services and Products Received or Provided

1. Enter in this part all transactions involving services and products received or provided.

2. Below are some types of transactions to include:
   - -management, legal and accounting services
   - -computer services
   - -engineering & construction services
   - -repairing and servicing of equipment
   - -material and supplies furnished
   - -leasing of structures, land, and equipment
   - -rental transactions
   - -sale, purchase or transfer of various products

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION SERVICE AND/OR NAME OF PRODUCT (b)	CONTRACT OR AGREEMENT EFFECTIVE DATES (c)	ANNUAL CHARGES (P)urchased (S)old (d)	ANNUAL CHARGES AMOUNT (e)
CH Utility Holdings, LLC	Lot Lease	7/10/2014		$ 105,077
CH Office Holdings, LLC	Office Lease	7/10/2014		8,993

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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BUSINESS TRANSACTIONS WITH RELATED PARTIES (Cont'd)

Part II. Specific Instructions: Sale, Purchase and Transfer of Assets

1. Enter in this part all transactions relating to the purchase, sale, or transfer of assets.

2 Below are examples of some types of transactions to include:
- -purchase, sale or transfer of equipment
- -purchase, sale or transfer of land and structures
- -purchase, sale or transfer of securities
- -noncash transfers of assets
- -noncash dividends other than stock dividends
- -write-off of bad debts or loans

3. The columnar instructions follow:

(a) Enter name of related party or company.
(b) Describe briefly the type of assets purchased, sold or transferred.
(c) Enter the total received or paid. Indicate purchase with "P" and sale with "S".
(d) Enter the net book value for each item reported.
(e) Enter the net profit or loss for each item reported. (column (c) - column (d))
(f) Enter the fair market value for each item reported. In space below or in a supplemental schedule, describe the basis used to calculate fair market value.

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION OF ITEMS (b)	SALE OR PURCHASE PRICE (c)	NET BOOK VALUE (d)	GAIN OR LOSS (e)	FAIR MARKET VALUE (f)
None		$	$	$	$

FINANCIAL SECTION

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	UTILITY PLANT			
101-106	Utility Plant	F-7	$ 3,299,842	$ 3,364,228
108-110	Less: Accumulated Depreciation and Amortization	F-8	2,479,951	2,535,594
	Net Plant		$ 819,891	$ 828,634
114-115	Utility Plant Acquisition adjustment (Net)	F-7	19,054	18,672
116 *	Other Utility Plant Adjustments			
	Total Net Utility Plant		$ 838,945	$ 847,306
	OTHER PROPERTY AND INVESTMENTS			
121	Nonutility Property	F-9	$ 0	$ 0
122	Less: Accumulated Depreciation and Amortization		0	0
	Net Nonutility Property		$ 0	$ 0
123	Investment in Associated Companies	F-10		
124	Utility Investments	F-10		
125	Other Investments	F-10		
126-127	Special Funds	F-10		
	Total Other Property & Investments		$ 0	$ 0
	CURRENT AND ACCRUED ASSETS			
131	Cash		$ 36,524	$ 5,442
132	Special Deposits	F-9	74,265	74,430
133	Other Special Deposits	F-9	170	59
134	Working Funds			
135	Temporary Cash Investments			
141-144	Accounts and Notes Receivable, Less Accumulated Provision for Uncollectible Accounts	F-11	36,714	41,307
145	Accounts Receivable from Associated Companies	F-12		
146	Notes Receivable from Associated Companies	F-12		
151-153	Material and Supplies			
161	Stores Expense			
162	Prepayments		1,074	1,494
171	Accrued Interest and Dividends Receivable			
172 *	Rents Receivable			
173 *	Accrued Utility Revenues			
174	Miscellaneous Current and Accrued Assets	F-12		
	Total Current and Accrued Assets		$ 148,747	$ 122,732

* Not Applicable for Class B Utilities

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED DEBITS			
181	Unamortized Debt Discount & Expense	F-13	$	$
182	Extraordinary Property Losses	F-13		
183	Preliminary Survey & Investigation Charges		-	-
184	Clearing Accounts		-	-
185 *	Temporary Facilities		-	-
186	Miscellaneous Deferred Debits	F-14	21,582	8,535
187 *	Research & Development Expenditures		-	-
190	Accumulated Deferred Income Taxes		-	-
	Total Deferred Debits		$ 21,582	$ 8,535
	TOTAL ASSETS AND OTHER DEBITS		$ 1,009,274	$ 978,573

* Not Applicable for Class B Utilities

NOTES TO THE BALANCE SHEET

The space below is provided for important notes regarding the balance sheet.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	EQUITY CAPITAL			
201	Common Stock Issued	F-15	$ 100	$ 100
204	Preferred Stock Issued	F-15	-	-
202,205 *	Capital Stock Subscribed			
203,206 *	Capital Stock Liability for Conversion			
207 *	Premium on Capital Stock			
209 *	Reduction in Par or Stated Value of Capital Stock			
210 *	Gain on Resale or Cancellation of Reacquired Capital Stock			
211	Other Paid - In Capital		474,492	474,492
212	Discount On Capital Stock			
213	Capital Stock Expense			
214-215	Retained Earnings	F-16	(309,484)	(321,285)
216	Reacquired Capital Stock			
218	Proprietary Capital (Proprietorship and Partnership Only)			
	Total Equity Capital		$ 165,108	$ 153,308
	LONG TERM DEBT			
221	Bonds	F-15		
222 *	Reacquired Bonds			
223	Advances from Associated Companies	F-17	-	-
224	Other Long Term Debt	F-17	54,123	51,122
	Total Long Term Debt		$ 54,123	$ 51,122
	CURRENT AND ACCRUED LIABILITIES			
231	Accounts Payable		112,078	58,828
232	Notes Payable	F-18	57,832	67,463
233	Accounts Payable to Associated Companies	F-18	-	-
234	Notes Payable to Associated Companies	F-18	-	-
235	Customer Deposits		65,645	65,775
236	Accrued Taxes	W/S-3	1,872	19,792
237	Accrued Interest	F-19	40	32
238	Accrued Dividends		34	-
239	Matured Long Term Debt			
240	Matured Interest			
241	Miscellaneous Current & Accrued Liabilities	F-20	14,410	51,029
	Total Current & Accrued Liabilities		$ 251,911	$ 262,919

* Not Applicable for Class B Utilities

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED CREDITS			
251	Unamortized Premium On Debt	F-13	$ -	$ -
252	Advances For Construction	F-20	-	-
253	Other Deferred Credits	F-21	-	-
255	Accumulated Deferred Investment Tax Credits			
	Total Deferred Credits		$ -	$ -
	OPERATING RESERVES			
261	Property Insurance Reserve		$	$
262	Injuries & Damages Reserve			
263	Pensions and Benefits Reserve			
265	Miscellaneous Operating Reserves			
	Total Operating Reserves		$ -	$ -
	CONTRIBUTIONS IN AID OF CONSTRUCTION			
271	Contributions in Aid of Construction	F-22	$ 1,933,638	$ 1,954,254
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	(1,395,506)	(1,443,030)
	Total Net C.I.A.C.		$ 538,132	$ 511,224
	ACCUMULATED DEFERRED INCOME TAXES			
281	Accumulated Deferred Income Taxes - Accelerated Depreciation		$	$
282	Accumulated Deferred Income Taxes - Liberalized Depreciation			
283	Accumulated Deferred Income Taxes - Other			
	Total Accumulated Deferred Income Tax		$ -	$ -
	TOTAL EQUITY CAPITAL AND LIABILITIES		$ 1,009,274	$ 978,573

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

COMPARATIVE OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR * (e)
	UTILITY OPERATING INCOME			
400	Operating Revenues	F-3(b)	$ 1,106,031	$ 1,129,448
469, 530	Less: Guaranteed Revenue and AFPI	F-3(b)	-	-
	Net Operating Revenues		$ 1,106,031	$ 1,129,448
401	Operating Expenses	F-3(b)	$ 934,821	$ 989,888
403	Depreciation Expense:	F-3(b)	$ 94,772	$ 92,055
	Less: Amortization of CIAC	F-22	47,181	47,524
	Net Depreciation Expense		$ 47,591	$ 44,531
406	Amortization of Utility Plant Acquisition Adjustment	F-3(b)	382	1,874
407	Amortization Expense (Other than CIAC)	F-3(b)	-	-
408	Taxes Other Than Income	W/S-3	95,074	98,989
409	Current Income Taxes	W/S-3	-	-
410.10	Deferred Federal Income Taxes	W/S-3	-	-
410.11	Deferred State Income Taxes	W/S-3	-	-
411.10	Provision for Deferred Income Taxes - Credit	W/S-3	-	-
412.10	Investment Tax Credits Deferred to Future Periods	W/S-3	-	-
412.11	Investment Tax Credits Restored to Operating Income	W/S-3	-	-
	Utility Operating Expenses		$ 1,077,868	$ 1,135,282
	Net Utility Operating Income		$ 28,163	$ (5,834)
469, 530	Add Back: Guaranteed Revenue and AFPI	F-3(b)	-	-
413	Income From Utility Plant Leased to Others		-	-
414	Gains (losses) From Disposition of Utility Property		-	-
420	Allowance for Funds Used During Construction		-	-
	Total Utility Operating Income [Enter here and on Page F-3(c)]		$ 28,163	$ (5,834)

* For each account, Column e should agree with Columns f, g and h on F-3(b)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE OPERATING STATEMENT (Cont'd)

WATER SCHEDULE W-3 * (f)	WASTEWATER SCHEDULE S-3 * (g)	OTHER THAN REPORTING SYSTEMS (h)
$ 1,100,526	$ -	$ 28,922
-	$ -	
$ 1,100,526	$ -	$ 28,922
$ 957,021	$ -	$ 32,867
89,234	$ -	2,821
47,035	$ -	489
$ 42,199	$ -	$ 2,332
2,238	$ -	(364)
-	$ -	
96,295	$ -	2,694
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
$ 1,097,753	$ -	$ 37,529
$ 2,774	$ -	$ (8,607)
-	$ -	
-	$ -	
-	$ -	-
-	$ -	
$ 2,774	$ -	$ (8,607)

* Total of Schedules W-3 / S-3 for all rate groups.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE OPERATING STATEMENT (Cont'd)

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
Total Utility Operating Income [from page F-3(a)]			$ 28,163	$ (5,834)
	OTHER INCOME AND DEDUCTIONS			
415	Revenues-Merchandising, Jobbing, and Contract Deductions		$	$
416	Costs & Expenses of Merchandising Jobbing, and Contract Work			
419	Interest and Dividend Income		34	35
421	Nonutility Income		176	(1,157)
426	Miscellaneous Nonutility Expenses			
Total Other Income and Deductions			$ 210	$ (1,122)
	TAXES APPLICABLE TO OTHER INCOME			
408.20	Taxes Other Than Income		$	$
409.20	Income Taxes			
410.20	Provision for Deferred Income Taxes			
411.20	Provision for Deferred Income Taxes - Credit			
412.20	Investment Tax Credits - Net			
412.30	Investment Tax Credits Restored to Operating Income			
Total Taxes Applicable To Other Income			$ -	$ -
	INTEREST EXPENSE			
427	Interest Expense	F-19	$ (5,477)	$ (4,845)
428	Amortization of Debt Discount & Expense	F-13		
429	Amortization of Premium on Debt	F-13		
Total Interest Expense			$ (5,477)	$ (4,845)
	EXTRAORDINARY ITEMS			
433	Extraordinary Income		$	$
434	Extraordinary Deductions			
409.30	Income Taxes, Extraordinary Items			
Total Extraordinary Items			$ -	$ -
NET INCOME			$ 22,896	$ (11,801)

Explain Extraordinary Income:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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SCHEDULE OF YEAR END RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	WATER UTILITY (d)	WASTEWATER UTILITY (e)
101	Utility Plant In Service	F-7	$ 3,281,663	$ -
	Less:			
	Nonused and Useful Plant (1)		-	
108	Accumulated Depreciation	F-8	2,482,046	-
110	Accumulated Amortization	F-8	-	-
271	Contributions in Aid of Construction	F-22	1,954,254	-
252	Advances for Construction	F-20	-	
	Subtotal		$ (1,154,637)	$ -
	Add:			
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	1,443,030	-
	Subtotal		$ 288,393	$ 0
	Plus or Minus:			
114	Acquisition Adjustments (2)	F-7	29,838	-
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(10,443)	-
	Working Capital Allowance (3)		119,628	-
	Other (Specify):			
105	Construction in Process		67	-
	RATE BASE		$ 427,483	$ -
	NET UTILITY OPERATING INCOME		$ 2,774	$ -
	ACHIEVED RATE OF RETURN (Operating Income / Rate Base)		0.65%	

NOTES :

(1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF CURRENT COST OF CAPITAL
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING (1)

CLASS OF CAPITAL (a)	DOLLAR AMOUNT (2) (b)	PERCENTAGE OF CAPITAL (c)	ACTUAL COST RATES (3) (d)	WEIGHTED COST (c x d) (e)
Common Equity	$ 100	-		
Preferred Stock		-		
Long Term Debt		-		
Customer Deposits		-		
Tax Credits - Zero Cost		-		
Tax Credits - Weighted Cost		-		
Deferred Income Taxes		-		
Other (Explain)		-		
		-		
Total	$ 100			

(1) If the utility's capital structure is not used, explain which capital structure is used.

(2) Should equal amounts on Schedule F-6, Column (g).

(3) Mid-point of the last authorized Return On Equity or current leverage formula if none has been established.

Must be calculated using the same methodology used in the last rate proceeding using current annual report year end amounts and cost rates.

APPROVED RETURN ON EQUITY

Current Commission Return on Equity:	9.13
Commission order approving Return on Equity:	12-0357-PAA-WU

APPROVED AFUDC RATE

COMPLETION ONLY REQUIRED IF AFUDC WAS CHARGED DURING YEAR

Current Commission Approved AFUDC rate:	%
Commission order approving AFUDC rate:	

If any utility capitalized any charge in lieu of AFUDC (such as interest only), state the basis of the charge, an explanation as to why AFUDC was not charged and the percentage capitalized.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF CAPITAL STRUCTURE ADJUSTMENTS
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING

CLASS OF CAPITAL (a)	PER BOOK BALANCE (b)	NON-UTILITY ADJUSTMENTS (c)	NON-JURISDICTIONAL ADJUSTMENTS (d)	OTHER (1) ADJUSTMENTS SPECIFIC (e)	OTHER (1) ADJUSTMENTS PRO RATA (f)	CAPITAL STRUCTURE (g)
Common Equity	$ 100	$	$	$	$	$
Preferred Stock						
Long Term Debt						
Customer Deposits						
Tax Credits - Zero Cost						
Tax Credits - Weighted Cost						
Deferred Inc. Taxes						
Other (Explain)						
Total	$ 100	$	$	$	$	$

(1) Explain below all adjustments made in Columns (e) and (f):

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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UTILITY PLANT
ACCOUNTS 101 - 106

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
	Plant Accounts:				
101	Utility Plant In Service	$ 3,281,663	$	$ 82,498	$ 3,364,161
102	Utility Plant Leased to Other				-
103	Property Held for Future Use				-
104	Utility Plant Purchased or Sold				-
105	Construction Work in Progress	67			67
106	Completed Construction Not Classified				-
	Total Utility Plant	$ 3,281,730	$ -	$ 82,498	$ 3,364,228

UTILITY PLANT ACQUISITION ADJUSTMENTS
ACCOUNTS 114 AND 115

Report each acquisition adjustment and related accumulated amortization separately.
For any acquisition adjustments approved by the Commission, include the Order Number.

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
114	Acquisition Adjustment Heights Water Company	$ 10,000			$ 10,000
	Acq Adj - Sandy Acres	39,523			39,523
	Acq Adj - Quail Run	(19,685)			(19,685)
	Acq Adj - Comm. Water			(14,548)	(14,548)
					-
Total Plant Acquisition Adjustments		$ 29,838	$ -	$ (14,548)	$ 15,290
115	Accumulated Amortization AA Heights Water Compan	$ 3,500			$ 3,500
	AA Acq Adj - Sandy Acres	13,833			13,833
	AA Acq Adj - Quail Run	(6,890)			(6,890)
	AA Acq Adj - Comm. Water			(13,825)	(13,825)
					-
Total Accumulated Amortization		$ 10,443	$ -	$ (13,825)	$ (3,382)
Net Acquisition Adjustments		$ 19,395	$ -	$ (723)	$ 18,672

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCUMULATED DEPRECIATION (ACCT. 108) AND AMORTIZATION (ACCT. 110)

DESCRIPTION (a)	WATER (b)	WASTEWATER (c)	OTHER THAN REPORTING SYSTEMS (d)	TOTAL (e)
ACCUMULATED DEPRECIATION Account 108				
Balance first of year	$ 2,428,904	$	$ 51,047	$ 2,479,951
Credit during year:				
Accruals charged to:				
Account 108.1 (1)	$ 89,234	$	$ 2,820	$ 92,054
Account 108.2 (2)				-
Account 108.3 (2)				-
Other Accounts (specify):				-
				-
				-
Salvage	-			-
Other Credits (Specify):	-			-
as per auditor auditor adjustment				-
Total Credits	$ 89,234	$ -	$ 2,820	$ 92,054
Debits during year:				
Book cost of plant retired	36,092		319	36,411
Cost of Removal				-
Other Debits (specify):				-
				-
				-
Total Debits	$ 36,092	$ -	$ 319	$ 36,411
Balance end of year	$ 2,482,046	$ -	$ 53,548	$ 2,535,594
ACCUMULATED AMORTIZATION Account 110				
Balance first of year	$	$	$	$ -
Credit during year:				
ruals charged to:				
	$	$	$	$ -
Account 110.2 (3)				-
Other Accounts (specify):				-
				-
Total credits	$ -	$ -	$ -	$ -
Debits during year:				
Book cost of plant retired				-
Other debits (specify):				-
				-
Total Debits	$ -	$ -	$ -	$ -
Balance end of year	$ -	$ -	$ -	$ -

(1) Account 108 for Class B utilities.

(2) Not applicable for Class B utilities.

(3) Account 110 for Class B utilities.

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REGULATORY COMMISSION EXPENSE
AMORTIZATION OF RATE CASE EXPENSE (ACCOUNTS 666 AND 766)

DESCRIPTION OF CASE (DOCKET NO.) (a)	EXPENSE INCURRED DURING YEAR (b)	CHARGED OFF DURING YEAR	
		ACCT. (d)	AMOUNT (e)
100048-WU	$ -	666	$
Total	$	666	$

NONUTILITY PROPERTY (ACCOUNT 121)

Report separately each item of property with a book cost of $25,000 or more included in Account 121.
Other Items may be grouped by classes of property.

DESCRIPTION (a)	BEGINNING YEAR (b)	ADDITIONS (c)	REDUCTIONS (d)	ENDING YEAR BALANCE (e)
None	$	$	$	$
Total Nonutility Property	$ -	$ -	$ -	$ -

SPECIAL DEPOSITS (ACCOUNTS 132 AND 133)

Report hereunder all special deposits carried in Accounts 132 and 133.

DESCRIPTION OF SPECIAL DEPOSITS (a)	YEAR END BOOK COST (b)
SPECIAL DEPOSITS (Account 132):	
Customer Deposits	$ 74,430
Total Special Deposits	$ 74,430
OTHER SPECIAL DEPOSITS (Account 133):	
Interim Rate Reserve	$ -
Health Insurance Co-Pay	-
Total Other Special Deposits	$ -

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INVESTMENTS AND SPECIAL FUNDS
ACCOUNTS 123 - 127

Report hereunder all investments and special funds carried in Accounts 123 through 127.

DESCRIPTION OF SECURITY OR SPECIAL FUND (a)	FACE OR PAR VALUE (b)	YEAR END BOOK COST (c)
INVESTMENT IN ASSOCIATED COMPANIES (Account 123):	$	$
None		
Total Investment in Associated Companies		$
UTILITY INVESTMENTS (Account 124):	$	$
None		
Total Utility Investment		$
OTHER INVESTMENTS (Account 125):	$	$
None		
Total Other Investment		$
SPECIAL FUNDS (Class A Utilities: Accounts 126 and 127; Class B Utilities: Account 127):		$
None		
Total Special Funds		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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ACCOUNTS AND NOTES RECEIVABLE - NET
ACCOUNTS 141 - 144

Report hereunder all accounts and notes receivable included in Accounts 141, 142, and 144. Amounts included in Amounts included in Accounts 142 and 144 should be listed individually.

DESCRIPTION (a)		TOTAL (b)
CUSTOMER ACCOUNTS RECEIVABLE (Account 141):		
Water	$ 40,075	
Wastewater		
Other		
Total Customer Accounts Receivable		$ 40,075
OTHER ACCOUNTS RECEIVABLE (Account 142):		
Employee accounts receivable	$ 1,232	
Total Other Accounts Receivable		$ 1,232
NOTES RECEIVABLE (Account 144):		
	$	
None		
Total Notes Receivable		$ -
Total Accounts and Notes Receivable		$ 41,307
ACCUMULATED PROVISION FOR UNCOLLECTIBLE ACCOUNTS (Account 143)		
Balance first of year	$	
Add: Provision for uncollectibles for current year	$	
Collection of accounts previously written off		
Utility Accounts		
Others		
Total Additions	$	
Deduct accounts written off during year:		
Utility Accounts		
Others		
Total accounts written off	$	
Balance end of year		$ -
TOTAL ACCOUNTS AND NOTES RECEIVABLE - NET		$ 41,307

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCOUNTS RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 145

Report each account receivable from associated companies separately.

DESCRIPTION (a)	TOTAL (b)
None	$
Total	$

NOTES RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 146

Report each note receivable from associated companies separately.

DESCRIPTION (a)	INTEREST RATE (b)	TOTAL (c)
None	%	$
Total		$

MISCELLANEOUS CURRENT AND ACCRUED ASSETS
ACCOUNT 174

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
None	$
Total Miscellaneous Current and Accrued Liabilities	$

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UNAMORTIZED DEBT DISCOUNT AND EXPENSE AND PREMIUM ON DEBT
ACCOUNTS 181 AND 251

Report the net discount and expense or premium separately for each security issue.

DESCRIPTION (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
UNAMORTIZED DEBT DISCOUNT AND EXPENSE (Account 181):		
None	$	$
Total Unamortized Debt Discount and Expense	$	$
UNAMORTIZED PREMIUM ON DEBT (Account 251):		
None	$	$
Total Unamortized Premium on Debt	$	$ -

EXTRAORDINARY PROPERTY LOSSES
ACCOUNT 182

Report each item separately.

DESCRIPTION (a)	TOTAL (b)
None	$
Total Extraordinary Property Losses	$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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MISCELLANEOUS DEFERRED DEBITS
ACCOUNT 186

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
DEFERRED RATE CASE EXPENSE (Class A Utilities: Account 186.1)		
	$	$ -
Total Deferred Rate Case Expense	$ -	$ -
OTHER DEFERRED DEBITS (Class A Utilities: Account 186.2):		
3 year well maintenance & testing	$ 7,883	3,960
5 year tank testing	5,163	4,575
Total Other Deferred Debits	$ 13,046	$ 8,535
REGULATORY ASSETS (Class A Utilities: Account. 186.3):		
	$	$
Total Regulatory Assets	$ -	$ -
TOTAL MISCELLANEOUS DEFERRED DEBITS	$ 13,046	$ 8,535

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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CAPITAL STOCK
ACCOUNTS 201 AND 204*

DESCRIPTION (a)	RATE (b)	TOTAL (c)
COMMON STOCK		
Par or stated value per share	%	$ 1
Shares authorized		7,500
Shares issued and outstanding		100
Total par value of stock issued	%	$ 100
Dividends declared per share for year	%	$
PREFERRED STOCK		
Par or stated value per share	None %	$
Shares authorized		
Shares issued and outstanding		
Total par value of stock issued	%	$
Dividends declared per share for year	%	$

* Account 204 not applicable for Class B utilities.

BONDS
ACCOUNT 221

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total			$

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

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STATEMENT OF RETAINED EARNINGS

1. Dividends should be shown for each class and series of capital stock. Show amounts as dividends per share.
2. Show separately the state and federal income tax effect of items shown in Account No. 439.

ACCT. NO. (a)	DESCRIPTION (b)	AMOUNTS (c)
215	Unappropriated Retained Earnings:	
	Balance Beginning of Year	$ (309,484)
	Changes to Account:	
439	Adjustments to Retained Earnings (requires Commission approval prior to use):	
	Credits:	$ -
	Total Credits:	$ -
	Debits:	$
	Total Debits:	$ -
435	Balance Transferred from Income	$ (11,801)
436	Appropriations of Retained Earnings:	
	Total Appropriations of Retained Earnings	$ -
	Dividends Declared:	
437	Preferred Stock Dividends Declared	
438	Common Stock Dividends Declared — Shareholder Distributions	-
	Total Dividends Declared	$
215	Year end Balance	$ (321,285)
214	Appropriated Retained Earnings (state balance and purpose of each appropriated amount at year end):	
214	Total Appropriated Retained Earnings	$ -
	Total Retained Earnings	$ (321,285)

Notes to Statement of Retained Earnings:

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ADVANCES FROM ASSOCIATED COMPANIES
ACCOUNT 223

Report each advance separately.

DESCRIPTION (a)	TOTAL (b)
None	$ -
Total	$ -

OTHER LONG-TERM DEBT
ACCOUNT 224

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
Devoloper Payments Due Harper Boulder Hill	0.00 %		$ 286
Developer Payments Due Ellison Country Walk	0.00 %		519
Developer Payments Due Albright Hilltop	0.00 %		7,946
Developer Payments Due Williamson Northwoods	0.00 %		1,589
Developer Payments Due Ellison Stonehill	0.00 %		278
Developer Payments Due Labuinger Silverwood Villa	0.00 %		100
Developer Payments Due Seyler Conventry	0.00 %		3,180
Developer Payments Due Lake Bryant Estates	0.00 %		3,635
Developer Payments Due Albright Lake Weir Hgts 2nd Add	0.00 %		3,612
Developer Payments Due Tuscany Hills	0.00 %		14,250
Developer Payments Due Lexington Estates Developer AGR	0.00 %		15,727
	%		
	%		
	%		
	%		
	%		
Total			$ 51,122

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

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NOTES PAYABLE
ACCOUNTS 232 AND 234

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
NOTES PAYABLE (Account 232):			
	%		$ -
L/P Kyocera Copier	0.00 %	Fixed	1,463
Line of Credit	5.50 %	Prime + 2%	66,000
	%		
	%		
	%		
	%		
	%		
Total Account 232			$ 67,463
NOTES PAYABLE TO ASSOC. COMPANIES (Account 234):			
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total Account 234			$ -

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

ACCOUNTS PAYABLE TO ASSOCIATED COMPANIES
ACCOUNT 233

Report each account payable separately.

DESCRIPTION (a)	TOTAL (b)
	$
None	
Total	$ -

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ACCRUED INTEREST AND EXPENSE
ACCOUNTS 237 AND 427

DESCRIPTION OF DEBIT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR ACCT. DEBIT (c)	INTEREST ACCRUED DURING YEAR AMOUNT (d)	INTEREST PAID DURING YEAR (e)	BALANCE END OF YEAR (f)
ACCOUNT NO. 237.1 - Accrued Interest on Long Term Debt					
	$		$	$	$
	-	427.4	-	-	
		428	-	-	
Total Account 237.1	$ -		$ -	$ -	$ -
ACCOUNT NO. 237.2 - Accrued Interest on Other Liabilities					
Customer Deposits	$ 40	427	$ 1,909	1,917	$ 32
Tract A QR		427	272	272	
Line of Credit		427	2,664	2,664	
Total Account 237.2	$ 40		$ 4,845	$ 4,853	$ 32
Total Account 237 (1)	$ 40		$ 4,845	$ 4,853	$ 32
INTEREST EXPENSED:					
Total accrual Account 237		237	$ 4,845		
Less Capitalized Interest Portion of AFUDC:					
Net Interest Expensed to Account No. 427 (2)			$ 4,845		

(1) Must agree to F-2 (a), Beginning and Ending Balance of Accrued Interest.

(2) Must agree to F-3 (c), Current Year Interest Expense

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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MISCELLANEOUS CURRENT AND ACCRUED LIABILITIES
ACCOUNT 241

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
	$
Accrued Payroll	1,820
Pension & Benefit Reserve	10,623
Accrued Expenses	38,586
Total Miscellaneous Current and Accrued Liabilities	$ 51,029

ADVANCES FOR CONSTRUCTION
ACCOUNT 252

NAME OF PAYOR * (a)	BALANCE BEGINNING OF YEAR (b)	DEBITS		CREDITS (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
	$	252	$		$ -
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252	-		-
		252			-
		252	-		-
Total	$ -		$ -	$ -	$ -

* Report advances separately by reporting group, designating water or wastewater in column (a).

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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OTHER DEFERRED CREDITS
ACCOUNT 253

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
REGULATORY LIABILITIES (Class A Utilities: Account 253.1):		
None	$	$
Total Regulatory Liabilities	$ -	$ -
OTHER DEFERRED LIABILITIES (Class A Utilities: Account 253.2):		
None	$	$
Total Other Deferred Liabilities	$ -	$ -
TOTAL OTHER DEFERRED CREDITS	$ -	$ -

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CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	WATER (W-7) (b)	WASTEWATER (S-7) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,933,638	$ -	$	$ 1,933,638
Add credits during year:	$ 20,616		-	20,616
Less debit charged during the year	$	$ -	$	$ -
Total Contribution In Aid of Construction	$ 1,954,254	$ -	$ -	$ 1,954,254

ACCUMULATED AMORTIZATION OF CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 272

DESCRIPTION (a)	WATER (W-8(a)) (b)	WASTEWATER (S-8(a)) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,395,506	$ -	$	$ 1,395,506
Debits during the year:	$ 47,524			$ 47,524
Credits during the year	$ -	$ -	$	$ -
Total Accumulated Amortization of Contributions In Aid of Construction	$ 1,443,030	$ -	$ -	$ 1,443,030

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

RECONCILIATION OF REPORTED NET INCOME WITH TAXABLE INCOME FOR FEDERAL INCOME TAXES (UTILITY OPERATIONS)

1. The reconciliation should include the same detail as furnished on Schedule M-1 of the federal tax return for the year. The reconciliation shall be submitted even though there is no taxable income for the year. Descriptions should clearly indicate the nature of each reconciling amount and show the computations of all tax accruals.

2. If the utility is a member of a group which files a consolidated federal tax return, reconcile reported net income with taxable net income as if a separate return were to be filed, indicating intercompany amounts to be eliminated in such consolidated return. State names of group members, tax assigned to each group member, and basis of allocation, assignments or sharing of the consolidated tax among the group members.

DESCRIPTION (a)	REF. NO. (b)	AMOUNT (c)
Net income for the year	F-3(c)	$
Reconciling items for the year:		
Taxable income not reported on books:		
		-
		-
		-
		-
Deductions recorded on books not deducted for return:		
Income recorded on books not included in return:		
		-
		-
		-
		-
Deduction on return not charged against book income:		
		-
		-
		-
		-
Federal tax net income		$ -

Computation of tax :

This Corporation is an "S" Corporation, therfore this schedule is not applicable

WATER
OPERATION
SECTION

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

WATER LISTING OF SYSTEM GROUPS

List below the name of each reporting system and its certificate number. Those systems which have been consolidated under the same tariff should be assigned a group number. Each individual system which has not been consolidated should be assigned its own group number.
The water financial schedules (W-2 through W-10) should be filed for the group in total.
The water engineering schedules (W-11 through W-14) must be filed for each system in the group.
All of the following water pages (W-2 through W-14) should be completed for each group and arranged by group number.

SYSTEM NAME / COUNTY	CERTIFICATE NUMBER	GROUP NUMBER
Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)	363W	1
Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines	363W	4

Note: On August 1, 1999 Citrus County took over monitoring responsibilties
Therefore Citrus County is no longer included in this report.

WATER
OPERATION
SECTION
GROUP 1

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 200,973
	Less: Nonused and Useful Plant (1)		621
108	Accumulated Depreciation	W-6(b)	70,729
110	Accumulated Amortization		-
271	Contributions in Aid of Construction	W-7	18,110
252	Advances for Construction	F-20	-
	Subtotal		$ 111,513
272	Add: Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 6,591
	Subtotal		$ 118,104
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	(9,685)
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	3,390
	Working Capital Allowance (3)		7,587
	Other (Specify):		
105	Construction in Process		-
	WATER RATE BASE		$ 119,396
	WATER OPERATING INCOME	W-3	$ 9,311
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		7.80%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 81,614
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 81,614
401	Operating Expenses	W-10(a)	$ 60,696
403	Depreciation Expense	W-6(a)	6,617
	Less: Amortization of CIAC	W-8(a)	547
	Net Depreciation Expense		$ 6,070
406	Amortization of Utility Plant Acquisition Adjustment	F-7	(976)
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		3,673
408.11	Property Taxes		1,173
408.12	Payroll Taxes		1,667
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 6,513
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 72,303
	Utility Operating Income		$ 9,311
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		-
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ 9,311

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ 0	$		$ 0
302	Franchises	0			0
303	Land and Land Rights	36,113	0		36,113
304	Structures and Improvements	5,207			5,207
305	Collecting and Impounding Reservoirs	0			0
306	Lake, River and Other Intakes	0			0
307	Wells and Springs	43,921	0		43,921
308	Infiltration Galleries and Tunnels	0			0
309	Supply Mains	0			0
310	Power Generation Equipment	0			0
311	Pumping Equipment	22,825			22,825
320	Water Treatment Equipment	7,755		-237	7,518
330	Distribution Reservoirs and Standpipes	39,572	0	0	39,572
331	Transmission and Distribution Mains	11,648	0	0	11,648
333	Services	8,427	1,966	0	10,393
334	Meters and Meter Installations	12,356	0	0	12,356
335	Hydrants	0			0
336	Backflow Prevention Devices	0			0
339	Other Plant Miscellaneous Equipment	0			0
340	Office Furniture and Equipment	8,111	135	-42	8,204
341	Transportation Equipment	1,088	786		1,874
342	Stores Equipment	0			0
343	Tools, Shop and Garage Equipment	844	498		1,342
344	Laboratory Equipment	0			0
345	Power Operated Equipment	0			0
346	Communication Equipment	0			0
347	Miscellaneous Equipment	0			0
349	Abandonment of Regional Plant	0			0
	TOTAL WATER PLANT	$ 197,867	$ 3,385	$ -279	$ 200,973

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ 0	$ 0	$	$	$	$
302	Franchises	0	0				
303	Land and Land Rights	36,113		36,113			
304	Structures and Improvements	5,207		5,207			
305	Collecting and Impounding Reservoirs	0		0			
306	Lake, River and Other Intakes	0		0			
307	Wells and Springs	43,921		43,921			
308	Infiltration Galleries and Tunnels	0		0			
309	Supply Mains	0		0			
310	Power Generation Equipment	0		0			
311	Pumping Equipment	22,825		22,825			
320	Water Treatment Equipment	7,518			7,518		
330	Distribution Reservoirs and Standpipes	39,572				39,572	
331	Transmission and Distribution Mains	11,648				11,648	
333	Services	10,393				10,393	
334	Meters and Meter Installations	12,356				12,356	
335	Hydrants	0				0	
336	Backflow Prevention Devices	0					
339	Other Plant Miscellaneous Equipment	0	0				
340	Office Furniture and Equipment	8,204					8,204
341	Transportation Equipment	1,874					1,874
342	Stores Equipment	0					0
343	Tools, Shop and Garage Equipment	1,342					1,342
344	Laboratory Equipment	0					
345	Power Operated Equipment	0					0
346	Communication Equipment	0					0
347	Miscellaneous Equipment	0					0
349	Abandonment of Regional Plant	0					0
	TOTAL WATER PLANT	$ 200,973	$ 0	$ 108,066	$ 7,518	$ 73,969	$ 11,420

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ 0	$ 0		$ 0
304	Structures and Improvements	5,207	0		0
305	Collecting and Impounding Reservoirs	0			0
306	Lake, River and Other Intakes	0			0
307	Wells and Springs	11,619	1,464		1,464
308	Infiltration Galleries and Tunnels	0			0
309	Supply Mains	0	0		0
310	Power Generation Equipment	0	0		0
311	Pumping Equipment	14,012	1,141		1,141
320	Water Treatment Equipment	1,505	345		345
330	Distribution Reservoirs and Standpipes	9,482	1,799		1,799
331	Transmission and Distribution Mains	11,510	138		138
333	Services	440	197		197
334	Meters and Meter Installations	5,790	618		618
335	Hydrants	0			0
336	Backflow Prevention Devices	0			0
339	Other Plant Miscellaneous Equipment	0			0
340	Office Furniture and Equipment	4,127	617		617
341	Transportation Equipment	444	225		225
342	Stores Equipment	0	0		0
343	Tools, Shop and Garage Equipment	255	73		73
344	Laboratory Equipment	0			0
345	Power Operated Equipment	0	0		0
346	Communication Equipment	0	0		0
347	Miscellaneous Equipment	0	0		0
349	Abandonment of Regional Plant	0	0		0
TOTAL WATER ACCUMULATED DEPRECIATION		$ 64,391	$ 6,617	$ 0	$ 6,617

* Auditor Adjustment

Use ( ) to denote reversal entries.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$			$ 0	$ 0
304	Structures and Improvements				0	5,207
305	Collecting and Impounding Reservoirs				0	0
306	Lake, River and Other Intakes				0	0
307	Wells and Springs				0	13,083
308	Infiltration Galleries and Tunnels				0	0
309	Supply Mains			0	0	0
310	Power Generation Equipment				0	0
311	Pumping Equipment	0		0	0	15,153
320	Water Treatment Equipment	237			237	1,613
330	Distribution Reservoirs and Standpipes	0			0	11,281
331	Transmission and Distribution Mains	0			0	11,648
333	Services	0			0	637
334	Meters and Meter Installations	0			0	6,408
335	Hydrants				0	0
336	Backflow Prevention Devices				0	0
339	Other Plant Miscellaneous Equipment				0	0
340	Office Furniture and Equipment	42			42	4,702
341	Transportation Equipment				0	669
342	Stores Equipment				0	0
343	Tools, Shop and Garage Equipment				0	328
344	Laboratory Equipment				0	0
345	Power Operated Equipment				0	0
346	Communication Equipment				0	0
347	Miscellaneous Equipment				0	0
349	Abandonment of Regional Plant				0	0
TOTAL WATER ACCUMULATED DEPRECIATION		$ 279	$ 0	$ 0	$ 279	$ 70,729

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 18,110
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 0
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	0
Total Credits		$ 0
Less debits charged during the year (All debits charged during the year must be explained below)		$ 0
Total Contributions In Aid of Construction		$ 18,110

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	-	$ -	$ -
Other Side Tap 3/4" meter	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
Total Credits			$ -

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 6,044
Debits during the year:	
Accruals charged to Account 272	$ 547
Other debits (specify) :	
Total debits	$ 547
Credits during the year (specify) :	
Audit Adjustment	$ 0
Total credits	$ -
Balance end of year	$ 6,591

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
NA		$
Total Credits		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue			$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	284	286	74,502
461.2	Sales to Commercial Customers			
461.3	Sales to Industrial Customers			
461.4	Sales to Public Authorities			
461.5	Sales Multiple Family Dwellings			
	Total Metered Sales	284	286	$ 74,502
	Fire Protection Revenue:			
462.1	Public Fire Protection			
462.2	Private Fire Protection			
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities			
465	Sales To Irrigation Customers			
466	Sales For Resale			
467	Interdepartmental Sales			
	Total Water Sales	284	286	$ 74,502
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$
470	Forfeited Discounts			
471	Miscellaneous Service Revenues			7,112
472	Rents From Water Property			
473	Interdepartmental Rents			
474	Other Water Revenues			
	Total Other Water Revenues			$ 7,112
	Total Water Operating Revenues			$ 81,614

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 7,351	$	1,094
603	Salaries and Wages - Officers, Directors and Majority Stockholders	15,238		251
604	Employee Pensions and Benefits	4,222		251
610	Purchased Water	-		
615	Purchased Power	3,983	3,808	-
616	Fuel for Power Production	-	-	
618	Chemicals	1,047		
620	Materials and Supplies	1,773		93
631	Contractual Services-Engineering	-	-	
632	Contractual Services - Accounting	4,515		
633	Contractual Services - Legal	-		
634	Contractual Services - Mgt. Fees	-		
635	Contractual Services - Testing	2,065		
636	Contractual Services - Other	9,044		1,643
641	Rental of Building/Real Property	758	-	
642	Rental of Equipment	136		
650	Transportation Expenses	3,682		
656	Insurance - Vehicle	695		
657	Insurance - General Liability	-		
658	Insurance - Workman's Comp.	366		
659	Insurance - Other	-		
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-		
668	Water Resource Conservation Exp.	-		
670	Bad Debt Expense	1,023		
675	Miscellaneous Expenses	$ 4,798	600	-
	Total Water Utility Expenses	$ 60,696	$ 4,408	$ 3,332

UTILITY NAME:	Sunshine Utilities of Central Florida, Inc.	YEAR OF REPORT December 31, 2017
SYSTEM NAME / COUNTY :	Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)	

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	-	-	2,790	2,999	468
	-		228	6,627	8,132
	-		564	1,799	1,607
					175
1,047					
1	-		1,679		-
					4,515
					-
2,065			-		
7,260	-		-	141	-
					758
		-	136		-
				3,682	
				695	
				-	
					366
				1,023	
			-	1,635	2,563
$ 10,373	$ -	$ -	$ 5,397	$ 18,601	$ 18,584

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SYSTEM NAME / COUNTY : Quail Run / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,093	348	745	745
February		666	121	545	545
March		695	91	604	604
April		717	58	659	659
May		743	23	720	720
June		733	73	660	660
July		765	119	646	646
August		911	16	895	895
September		761	18	743	743
October		715	99	616	616
November		846	147	699	699
December		902	39	863	863
Total for Year	-	9,547	1,152	8,395	8,395

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,216,000 *	26,156	Ground Water

* Annual

YEAR OF REPORT
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UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 518400

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

YEAR OF REPORT
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UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Quail Run / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	89	89
3/4"	Displacement	1.5		
1"	Displacement	2.5	16	40
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		129

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 66

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Quail Run / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 129
2. Maximum number of ERCs * which can be served. 139
3. Present system connection capacity (in ERCs *) using existing lines. 1481
4. Future connection capacity (in ERCs *) upon service area buildout. 1481
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424046
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		975	345	630	630
February		905	360	545	545
March		823	308	515	515
April		1,465	717	748	748
May		866	55	811	811
June		953	340	613	613
July		1,065	945	120	120
August		984	135	849	849
September		918	318	600	600
October		955	434	521	521
November		877	364	513	513
December		832	305	527	527
Total for Year	-	11,618	4,626	6,992	6,992

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,000,000	31,830	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ponderosa Pines / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 517,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Ponderosa Pines / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	185	185
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		185

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 55

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 185
2. Maximum number of ERCs * which can be served. 185
3. Present system connection capacity (in ERCs *) using existing lines. 185
4. Future connection capacity (in ERCs *) upon service area buildout. 185
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WATER
OPERATION
SECTION
GROUP 4

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 3,080,690
	Less:		
	Nonused and Useful Plant (1)		56,983
108	Accumulated Depreciation	W-6(b)	2,411,317
110	Accumulated Amortization		
271	Contributions in Aid of Construction	W-7	1,914,478
252	Advances for Construction	F-20	-
	Subtotal		$ (1,302,088)
	Add:		
272	Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 1,423,893
	Subtotal		$ 121,805
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	39,523
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(13,833)
	Working Capital Allowance (3)		112,422
	Other (Specify):		
105	Construction in Process		67
	WATER RATE BASE		$ 259,984
	WATER OPERATING INCOME	W-3	$ (9,586)
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		-3.69%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 1,018,912
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 1,018,912
401	Operating Expenses	W-10(a)	$ 899,373
403	Depreciation Expense	W-6(a)	82,617
	Less: Amortization of CIAC	W-8(a)	46,488
	Net Depreciation Expense		$ 36,129
406	Amortization of Utility Plant Acquisition Adjustment	F-7	3,214
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		45,680
408.11	Property Taxes		16,505
408.12	Payroll Taxes		27,597
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 89,782
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 1,028,498
	Utility Operating Income		$ (9,586)
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ (9,586)

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ 1,660	$ 0	0	$ 1,660
302	Franchises	0	0	0	0
303	Land and Land Rights	70,777	0 *	0	70,777
304	Structures and Improvements	6,227	0	0	6,227
305	Collecting and Impounding Reservoirs	0	0	0	0
306	Lake, River and Other Intakes	0	0	0	0
307	Wells and Springs	75,016	0	0	75,016
308	Infiltration Galleries and Tunnels	0	0	0	0
309	Supply Mains	107,157	0	0	107,157
310	Power Generation Equipment	76,172	11,610	0	87,782
311	Pumping Equipment	493,452	46,261	-26,881	512,832
320	Water Treatment Equipment	205,011	8,319	-5,629	207,701
330	Distribution Reservoirs and Standpipes	44,579	727	0	45,306
331	Transmission and Distribution Mains	1,074,742	0	0	1,074,742
333	Services	144,882	5,504	0	150,386
334	Meters and Meter Installations	204,134	6,632	-2,812	207,954
335	Hydrants	0	0	0	0
336	Backflow Prevention Devices	0	0	0	0
339	Other Plant Miscellaneous Equipment	25,858	0	0	25,858
340	Office Furniture and Equipment	84,117	1,596	-491	85,222
341	Transportation Equipment	105,827	9,321	0	115,148
342	Stores Equipment	4,425	0	0	4,425
343	Tools, Shop and Garage Equipment	27,505	6,051	0	33,556
344	Laboratory Equipment	0	0	0	0
345	Power Operated Equipment	5,200	0	0	5,200
346	Communication Equipment	10,912	0	0	10,912
347	Miscellaneous Equipment	17,436	0	0	17,436
349	Abandonment of Regional Plant	235,393	0	0	235,393
	TOTAL WATER PLANT	$ 3,020,482	$ 96,021	$ -35,813	$ 3,080,690

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.
* auditor adjustment

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ 1,660	$ 1,660	$	$	$	$
302	Franchises	0	0				
303	Land and Land Rights	70,777		70,777	0	0	0
304	Structures and Improvements	6,227		6,227	0	0	0
305	Collecting and Impounding Reservoirs	0		0			
306	Lake, River and Other Intakes	0		0			
307	Wells and Springs	75,016		75,016			
308	Infiltration Galleries and Tunnels	0		0			
309	Supply Mains	107,157		107,157			
310	Power Generation Equipment	87,782		87,782			
311	Pumping Equipment	512,832		512,832	0	0	
320	Water Treatment Equipment	207,701			207,701		
330	Distribution Reservoirs and Standpipes	45,306				45,306	
331	Transmission and Distribution Mains	1,074,742				1,074,742	
333	Services	150,386				150,386	
334	Meters and Meter Installations	207,954				207,954	
335	Hydrants	0				0	
336	Backflow Prevention Devices	0				0	
339	Other Plant Miscellaneous Equipment	25,858	25,858			0	
340	Office Furniture and Equipment	85,222					85,222
341	Transportation Equipment	115,148					115,148
342	Stores Equipment	4,425					4,425
343	Tools, Shop and Garage Equipment	33,556					33,556
344	Laboratory Equipment	0					0
345	Power Operated Equipment	5,200					5,200
346	Communication Equipment	10,912					10,912
347	Miscellaneous Equipment	17,436					17,436
349	Abandonment of Regional Plant	235,393					235,393
	TOTAL WATER PLANT	$ 3,080,690	$ 27,518	$ 859,791	$ 207,701	$ 1,478,388	$ 507,292

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ 1,338	$ 42	0	$ 42
304	Structures and Improvements	2,763	189	0	189
305	Collecting and Impounding Reservoirs	0	0	0	0
306	Lake, River and Other Intakes	0	0	0	0
307	Wells and Springs	75,015	0	0	0
308	Infiltration Galleries and Tunnels	0	0	0	0
309	Supply Mains	33,997	3,062	0	3,062
310	Power Generation Equipment	56,104	5,605	0	5,605
311	Pumping Equipment	431,936	25,208	0	25,208
320	Water Treatment Equipment	205,010	0	0	0
330	Distribution Reservoirs and Standpipes	21,283	2,036	0	2,036
331	Transmission and Distribution Mains	890,019	24,994	0	24,994
333	Services	41,641	3,423	0	3,423
334	Meters and Meter Installations	145,982	10,286	0	10,286
335	Hydrants	0	0	0	0
336	Backflow Prevention Devices	0	0	0	0
339	Other Plant Miscellaneous Equipment	25,858	0	0	0
340	Office Furniture and Equipment	33,735	5,589	0	5,589
341	Transportation Equipment	105,825	0	0	0
342	Stores Equipment	2,581	221	0	221
343	Tools, Shop and Garage Equipment	22,486	1,962	0	1,962
344	Laboratory Equipment	0	0	0	0
345	Power Operated Equipment	5,200	0	0	0
346	Communication Equipment	10,911	0	0	0
347	Miscellaneous Equipment	17,436	0	0	0
349	Abandonment of Regional Plant	235,393	0	0	0
	TOTAL WATER ACCUMULATED DEPRECIATION	$ 2,364,513	$ 82,617	$ 0	$ 82,617

* Specify nature of transaction
Use ( ) to denote reversal entries.

Entered on wrong line in 2007

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$ 0	0	0	$ 0	$ 1,380
304	Structures and Improvements	0	0	0	0	2,952
305	Collecting and Impounding Reservoirs	0	0	0	0	0
306	Lake, River and Other Intakes	0	0	0	0	0
307	Wells and Springs	0	0	0	0	75,015
308	Infiltration Galleries and Tunnels	0	0	0	0	0
309	Supply Mains	0	0	0	0	37,059
310	Power Generation Equipment	0	0	0	0	61,709
311	Pumping Equipment	26,881	0	0	26,881	430,263
320	Water Treatment Equipment	5,629	0	0	5,629	199,381
330	Distribution Reservoirs and Standpipes	0	0	0	0	23,319
331	Transmission and Distribution Mains	0	0	0	0	915,013
333	Services	0	0	0	0	45,064
334	Meters and Meter Installations	2,812	0	0	2,812	153,456
335	Hydrants	0	0	0	0	0
336	Backflow Prevention Devices	0	0	0	0	0
339	Other Plant Miscellaneous Equipment	0	0	0	0	25,858
340	Office Furniture and Equipment	491	0	0	491	38,833
341	Transportation Equipment	0	0	0	0	105,825
342	Stores Equipment	0	0	0	0	2,802
343	Tools, Shop and Garage Equipment	0	0	0	0	24,448
344	Laboratory Equipment	0	0	0	0	0
345	Power Operated Equipment	0	0	0	0	5,200
346	Communication Equipment	0	0	0	0	10,911
347	Miscellaneous Equipment	0	0	0	0	17,436
349	Abandonment of Regional Plant	0	0	0	0	235,393
TOTAL WATER ACCUMULATED DEPRECIATION		$ 35,813	$ 0	$ 0	$ 35,813	$ 2,411,317

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 1,896,813
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 17,665
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	0
Total Credits		$ 17,665
Less debits charged during the year (All debits charged during the year must be explained below)		$ 0
Total Contributions In Aid of Construction		$ 1,914,478

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	19	$ 865	$ 16,435
Other Side Tap 3/4" meter	1	1,230	1,230
0	-	-	-
0	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-			
Total Credits			$ 17,665

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 1,377,405
Debits during the year:	
Accruals charged to Account 272	$ 46,488
Other debits (specify) :	
Auditor Adjustment	0
Total debits	$ 46,488
Credits during the year (specify) :	$ 0
Total credits	$ -
Balance end of year	$ 1,423,893

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
N/A		$ 0
Total Credits		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue	-	-	$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	3,318	-	944,526
461.2	Sales to Commercial Customers			
461.3	Sales to Industrial Customers			
461.4	Sales to Public Authorities			
461.5	Sales Multiple Family Dwellings			
	Total Metered Sales	3,318	-	$ 944,526
	Fire Protection Revenue:			
462.1	Public Fire Protection			
462.2	Private Fire Protection			
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities			
465	Sales To Irrigation Customers			
466	Sales For Resale			
467	Interdepartmental Sales			
	Total Water Sales	3,318	-	$ 944,526
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$
470	Forfeited Discounts			
471	Miscellaneous Service Revenues			74,386
472	Rents From Water Property			
473	Interdepartmental Rents			
474	Other Water Revenues			
	Total Other Water Revenues			$ 74,386
	Total Water Operating Revenues			$ 1,018,912

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 151,339	$ -	19,772
603	Salaries and Wages - Officers, Directors and Majority Stockholders	201,143	-	7,354
604	Employee Pensions and Benefits	68,273	-	5,257
610	Purchased Water	-		
615	Purchased Power	60,606	58,375	-
616	Fuel for Power Production	6,742	6,742	-
618	Chemicals	26,008	-	-
620	Materials and Supplies	42,449	-	12,484
631	Contractual Services-Engineering	-	-	-
632	Contractual Services - Accounting	6,281	-	-
633	Contractual Services - Legal	-	-	-
634	Contractual Services - Mgt. Fees	-	-	-
635	Contractual Services - Testing	28,496	-	-
636	Contractual Services - Other	64,088	-	12,384
641	Rental of Building/Real Property	114,070	105,077	-
642	Rental of Equipment	3,000	-	913
650	Transportation Expenses	44,015	-	-
656	Insurance - Vehicle	8,239	-	-
657	Insurance - General Liability	-	-	-
658	Insurance - Workman's Comp.	4,341	-	-
659	Insurance - Other	-	-	-
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-	-	-
668	Water Resource Conservation Exp.	-	-	-
670	Bad Debt Expense	8,173		
675	Miscellaneous Expenses	$ 62,110	8,404	1,867
	Total Water Utility Expenses	$ 899,373	$ 178,597	$ 60,032

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	427	-	63,625	51,947	15,568
-	238	-	7,226	85,341	100,984
-	129	-	13,743	26,614	22,530
-	-	-	-	-	2,232
-	-	-	-	-	-
26,008	-	-	-	-	-
(1)	63	-	29,883	20	-
-	-	-	-	-	-
-	-	-	-	-	6,281
-	-	-	-	-	-
-	-	-	-	-	-
28,496	-	-	-	-	-
(7,260)	45,768	-	11,420	1,776	-
-	-	-	-	-	8,992
-	-	-	2,087	-	-
-	-	-	-	44,015	-
-	-	-	-	8,239	-
-	-	-	-	-	-
-	-	-	-	-	4,341
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
				8,173	
-	-	-	-	20,539	31,300
$ 47,242	$ 46,624	$ -	$ 127,985	$ 246,664	$ 192,228

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		264	4	260	260
February		222	36	186	186
March		204	33	171	171
April		256	107	149	149
May		286	19	267	267
June		272	51	221	221
July		295	120	175	175
August		204	36	168	168
September		434	140	294	294
October		248	52	196	196
November		236	32	204	204
December		241	8	233	233
Total for Year	-	3,162	638	2,524	2,524

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	22,630,000 *	8,663	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 62000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential				
5/8"	Displacement	1.0	47	47
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
			Total Water System Meter Equivalents	47

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 147

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 47
2. Maximum number of ERCs * which can be served. 47
3. Present system connection capacity (in ERCs *) using existing lines. 47
4. Future connection capacity (in ERCs *) upon service area buildout. 47
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		462	15	447	447
February		360	12	348	348
March		386	38	348	348
April		646	136	510	510
May		675	121	554	554
June		551	62	489	489
July		615	229	386	386
August		667	67	600	600
September		627	183	444	444
October		3,990	3,629	361	361
November		734	366	368	368
December		426	21	405	405
Total for Year	-	10,139	4,879	5,260	5,260

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,700,000 *	27,778	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Belleview Oaks / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	85	85
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		93

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 75

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Belleview Oaks / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 93
2. Maximum number of ERCs * which can be served. 99
3. Present system connection capacity (in ERCs *) using existing lines. 99
4. Future connection capacity (in ERCs *) upon service area buildout. 99
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424621
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? YES
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		154	9	145	145
February		140	69	71	71
March		86	20	66	66
April		112	39	73	73
May		80	1	79	79
June		128	38	90	90
July		119	10	109	109
August		206	57	149	149
September		116	17	99	99
October		74	9	65	65
November		93	20	73	73
December		105	0	105	105
Total for Year	-	1,413	289	1,124	1,124

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,935,000 *	3,871	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Burks;Ocala Garden / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 19,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	23	23
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement, Compound or Turbine	5.0	2	10
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		33

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 123

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 33
2. Maximum number of ERCs * which can be served. 38
3. Present system connection capacity (in ERCs *) using existing lines. 38
4. Future connection capacity (in ERCs *) upon service area buildout. 38
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421554
12. Water Management District Consumptive Use Permit # N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Country Walk / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		550	73	477	477
February		529	219	310	310
March		590	207	383	383
April		611	194	417	417
May		726	153	573	573
June		521	45	476	476
July		551	170	381	381
August		629	164	465	465
September		358	63	295	295
October		529	191	338	338
November		535	163	372	372
December		453	14	439	439
Total for Year	-	6,582	1,656	4,926	4,926

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,090,000 *	18,033	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Country Walk / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 66,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Country Walk / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	67	67
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		67

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 201

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Country Walk / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 67
2. Maximum number of ERCs * which can be served. 75
3. Present system connection capacity (in ERCs *) using existing lines. 75
4. Future connection capacity (in ERCs *) upon service area buildout. 75
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424657
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		179	7	172	172
February		151	19	132	132
March		188	44	144	144
April		223	60	163	163
May		277	71	206	206
June		215	4	211	211
July		181	47	134	134
August		478	326	152	152
September		567	328	239	239
October		280	133	147	147
November		256	90	166	166
December		256	82	174	174
Total for Year	-	3,251	1,211	2,040	2,040

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	14,235,000 *	8,907	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Eleven Oaks / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 39,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Eleven Oaks / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	39	39
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		39

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 143

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 39
2. Maximum number of ERCs * which can be served. 42
3. Present system connection capacity (in ERCs *) using existing lines. 42
4. Future connection capacity (in ERCs *) upon service area buildout. 42
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424099
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		4,422	616	3,806	3,806
February		4,307	1,328	2,979	2,979
March		3,720	608	3,112	3,112
April		5,059	1,699	3,360	3,360
May		6,229	1,127	5,102	5,102
June		5,145	253	4,892	4,892
July		4,248	758	3,490	3,490
August		4,187	1,090	3,097	3,097
September		4,505	94	4,411	4,411
October		4,599	1,203	3,396	3,396
November		4,757	1,326	3,431	3,431
December		4,610	883	3,727	3,727
Total for Year	-	55,788	10,985	44,803	44,803

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	83,600,000	152,844	Ground Water
Well			

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 229041

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	165	165
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		165

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 744

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 165
2. Maximum number of ERCs * which can be served. 172
3. Present system connection capacity (in ERCs *) using existing lines. 172
4. Future connection capacity (in ERCs *) upon service area buildout. 172
5. Estimated annual increase in ERCs *. 3
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420340 & 3421314
12. Water Management District Consumptive Use Permit 3130
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Florida Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		605	89	516	516
February		721	323	398	398
March		1,304	862	442	442
April		1,576	1,002	574	574
May		1,707	1,131	576	576
June		1,177	635	542	542
July		1,860	1,454	406	406
August		564	14	550	550
September		687	223	464	464
October		541	158	383	383
November		559	136	423	423
December		527	83	444	444
Total for Year	-	11,828	6,110	5,718	5,718

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	11,000,000 *	32,405	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Florida Heights / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 30,137

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.):

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Florida Heights / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	104	104
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		104

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 151

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Florida Heights / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 104
2. Maximum number of ERCs * which can be served. 111
3. Present system connection capacity (in ERCs *) using existing lines. 111
4. Future connection capacity (in ERCs *) upon service area buildout. 111
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424031
12. Water Management District Consumptive Use Permit 3131
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		500	56	444	444
February		436	148	288	288
March		430	118	312	312
April		533	203	330	330
May		597	209	388	388
June		471	73	398	398
July		400	100	300	300
August		493	196	297	297
September		525	5	520	520
October		527	110	417	417
November		512	146	366	366
December		693	316	377	377
Total for Year	-	6,117	1,680	4,437	4,437

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,820,000	16,759	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Floyd Clark;Hodges;Northwoods / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 68,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	73	73
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		73

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 167

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 73
2. Maximum number of ERCs * which can be served. 73
3. Present system connection capacity (in ERCs *) using existing lines. 73
4. Future connection capacity (in ERCs *) upon service area buildout. 73
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420411
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,650	172	1,478	1,478
February		1,252	79	1,173	1,173
March		1,494	343	1,151	1,151
April		1,736	608	1,128	1,128
May		1,987	20	1,967	1,967
June		1,913	5	1,908	1,908
July		1,265	176	1,089	1,089
August		1,231	155	1,076	1,076
September		1,763	9	1,754	1,754
October		1,476	329	1,147	1,147
November		1,398	32	1,366	1,366
December		1,383	37	1,346	1,346
Total for Year	-	18,548	1,965	16,583	16,583

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	19,000,000 *	50,816	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Fore Oakes;Coventry;Ballard Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 52,055

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Fore Oakes;Coventry;Ballard Acres / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	232	232
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		232

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 196

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 232
2. Maximum number of ERCs * which can be served. 249
3. Present system connection capacity (in ERCs *) using existing lines. 249
4. Future connection capacity (in ERCs *) upon service area buildout. 249
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424644
12. Water Management District Consumptive Use Permit 3013
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Hilltop / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,318	14	1,304	1,304
February		1,318	328	990	990
March		1,468	375	1,093	1,093
April		2,024	479	1,545	1,545
May		2,224	332	1,892	1,892
June		1,534	192	1,342	1,342
July		1,693	490	1,203	1,203
August		1,975	25	1,950	1,950
September		1,218	51	1,167	1,167
October		1,843	440	1,403	1,403
November		1,036	36	1,000	1,000
December		1,152	8	1,144	1,144
Total for Year	-	18,803	2,770	16,033	16,033

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,800,000	51,515	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Hilltop / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 18,630

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Hilltop / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	198	198
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		206

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 213

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Hilltop / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 206
2. Maximum number of ERCs * which can be served. 271
3. Present system connection capacity (in ERCs *) using existing lines. 271
4. Future connection capacity (in ERCs *) upon service area buildout. 271
5. Estimated annual increase in ERCs *. 5
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424662
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,325	324	2,001	2,001
February		2,191	773	1,418	1,418
March		2,058	543	1,515	1,515
April		2,790	865	1,925	1,925
May		1,949	204	1,745	1,745
June		3,126	1,402	1,724	1,724
July		2,751	1,216	1,535	1,535
August		2,766	464	2,302	2,302
September		2,293	663	1,630	1,630
October		2,104	719	1,385	1,385
November		2,403	959	1,444	1,444
December		2,357	598	1,759	1,759
Total for Year	-	29,113	8,730	20,383	20,383

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	30,842,500	79,762	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Little Lake Weir / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 84,500

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Little Lake Weir / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	421	421
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
			Total Water System Meter Equivalents	424

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 132

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 424
2. Maximum number of ERCs * which can be served. 740
3. Present system connection capacity (in ERCs *) using existing lines. 740
4. Future connection capacity (in ERCs *) upon service area buildout. 740
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420761
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Oak Haven / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		947	286	661	661
February		966	431	535	535
March		874	365	509	509
April		1,008	612	396	396
May		809	234	575	575
June		1,259	667	592	592
July		640	5	635	635
August		989	437	552	552
September		1,218	237	981	981
October		1,244	633	611	611
November		1,957	1,298	659	659
December		892	322	570	570
Total for Year	-	12,803	5,527	7,276	7,276

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	18,000,000	35,077	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Oak Haven / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 49,315

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Oak Haven / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	48	48
3/4"	Displacement	1.5		
1"	Displacement	2.5	6	15
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	6	30
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0	1	15
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	2	60
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		168

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 119

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Oak Haven / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 168
2. Maximum number of ERCs * which can be served. 194
3. Present system connection capacity (in ERCs *) using existing lines. 194
4. Future connection capacity (in ERCs *) upon service area buildout. 194
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424106
12. Water Management District Consumptive Use Permit 3080
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oakhurst / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		819	90	729	729
February		799	227	572	572
March		782	167	615	615
April		1,024	282	742	742
May		1,329	124	1,205	1,205
June		1,016	103	913	913
July		937	399	538	538
August		1,106	599	507	507
September		1,055	301	754	754
October		1,179	655	524	524
November		1,328	715	613	613
December		1,060	422	638	638
Total for Year	-	12,434	4,084	8,350	8,350

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

* The master meter is failing to read low flows thus making the water pumped understated.
The company is is currently looking into replacing the master meter with a special meter to read low flows

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	13,000,000	34,066	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Oakhurst / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 35,616

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Oakhurst / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	108	108
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		108

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 212

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oakhurst / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 108
2. Maximum number of ERCs * which can be served. 108
3. Present system connection capacity (in ERCs *) using existing lines. 108
4. Future connection capacity (in ERCs *) upon service area buildout. 108
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424032
12. Water Management District Consumptive Use Permit 3132
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,675	14	1,661	1,661
February		1,533	209	1,324	1,324
March		1,665	252	1,413	1,413
April		2,463	185	2,278	2,278
May		2,613	539	2,074	2,074
June		1,857	175	1,682	1,682
July		1,841	406	1,435	1,435
August		1,866	99	1,767	1,767
September		2,158	513	1,645	1,645
October		2,091	660	1,431	1,431
November		2,074	637	1,437	1,437
December		1,791	181	1,610	1,610
Total for Year	-	23,627	3,870	19,757	19,757

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	39,600,000	64,732	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 108,493

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	348	348
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		348

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 156

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 348
2. Maximum number of ERCs * which can be served. 550
3. Present system connection capacity (in ERCs *) using existing lines. 550
4. Future connection capacity (in ERCs *) upon service area buildout. 550
5. Estimated annual increase in ERCs *. 15
6. Is the utility required to have fire flow capacity? yes
   If so, how much capacity is required? 500 gmp for two hours
7. Attach a description of the fire fighting facilities. Hydrants
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP?
    c. When will construction begin?
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP?
11. Department of Environmental Protection ID # 3424651
12. Water Management District Consumptive Use Permit 3019
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance?

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,405	321	2,084	2,084
February		2,728	1,085	1,643	1,643
March		2,655	911	1,744	1,744
April		2,746	649	2,097	2,097
May		2,742	433	2,309	2,309
June		2,627	647	1,980	1,980
July		2,738	1,048	1,690	1,690
August		2,765	550	2,215	2,215
September		3,237	1,235	2,002	2,002
October		2,392	884	1,508	1,508
November		2,578	904	1,674	1,674
December		2,729	947	1,782	1,782
Total for Year	-	32,342	9,614	22,728	22,728

If water is purchased for resale, indicate the following:

Vendor: Marion Utilities, Inc

Point of delivery: Ocklawaha Terrace

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	60,955,000	88,608	Ground Water

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ocklawaha;Sanctuary / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 167,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Ocklawaha;Sanctuary / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	341	341
3/4"	Displacement	1.5		
1"	Displacement	2.5	4	10
1 1/4"	Displacement, Compound or Turbine	3.8	2	8
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0	3	24
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		388

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 161

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 388
2. Maximum number of ERCs * which can be served. 577
3. Present system connection capacity (in ERCs *) using existing lines. 577
4. Future connection capacity (in ERCs *) upon service area buildout. 577
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420939
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		390	10	380	380
February		264	10	254	254
March		342	26	316	316
April		481	124	357	357
May		469	39	430	430
June		379	74	305	305
July		371	113	258	258
August		426	5	421	421
September		377	22	355	355
October		467	175	292	292
November		524	200	324	324
December		431	72	359	359
Total for Year	-	4,921	870	4,051	4,051

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,500,000 *	13,482	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 17,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	70	70
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		70

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 159

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 70
2. Maximum number of ERCs * which can be served. 73
3. Present system connection capacity (in ERCs *) using existing lines. 73
4. Future connection capacity (in ERCs *) upon service area buildout. 73
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421520
12. Water Management District Consumptive Use Permit 2996
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		137	4	133	133
February		118	7	111	111
March		114	11	103	103
April		90	6	84	84
May		159	41	118	118
June		131	9	122	122
July		124	20	104	104
August		138	36	102	102
September		165	4	161	161
October		117	5	112	112
November		163	21	142	142
December		142	12	130	130
Total for Year	-	1,598	176	1,422	1,422

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,665,000	4,378	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sun Resorts / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sun Resorts / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	32	32
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		32

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 122

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 32
2. Maximum number of ERCs * which can be served. 32
3. Present system connection capacity (in ERCs *) using existing lines. 32
4. Future connection capacity (in ERCs *) upon service area buildout. 32
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421201
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,322	74	1,248	1,248
February		1,202	291	911	911
March		986	29	957	957
April		1,328	211	1,117	1,117
May		1,191	11	1,180	1,180
June		1,320	23	1,297	1,297
July		1,112	42	1,070	1,070
August		1,457	37	1,420	1,420
September		1,493	127	1,366	1,366
October		1,249	119	1,130	1,130
November		1,482	231	1,251	1,251
December		1,456	28	1,428	1,428
Total for Year	-	15,598	1,223	14,375	14,375

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	15,000,000	42,734	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Whispering Sands / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 41,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Whispering Sands / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	71	71
3/4"	Displacement	1.5		
1"	Displacement	2.5	19	48
1 1/4"	Displacement, Compound or Turbine	3.8	35	133
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		257

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 154

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 257
2. Maximum number of ERCs * which can be served. 857
3. Present system connection capacity (in ERCs *) using existing lines. 857
4. Future connection capacity (in ERCs *) upon service area buildout. 857
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424009
12. Water Management District Consumptive Use Permit 6850
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,788	323	1,465	1,465
February		1,647	361	1,286	1,286
March		1,300	171	1,129	1,129
April		1,515	267	1,248	1,248
May		1,509	14	1,495	1,495
June		1,307	135	1,172	1,172
July		1,333	333	1,000	1,000
August		1,539	47	1,492	1,492
September		1,242	89	1,153	1,153
October		1,244	295	949	949
November		1,298	377	921	921
December		1,306	76	1,230	1,230
Total for Year	-	17,028	2,488	14,540	14,540

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	56,200,000 *	46,652	Ground Water

* Annual

UTILITY NAME:	Sunshine Utilities of Central Florida, Inc.	YEAR OF REPORT December 31, 2017

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 153,973

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	220	220
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/14"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	1	30
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		258

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 154

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 258
2. Maximum number of ERCs * which can be served. 757
3. Present system connection capacity (in ERCs *) using existing lines. 646
4. Future connection capacity (in ERCs *) upon service area buildout. 646
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424691
12. Water Management District Consumptive Use Permit # 3093
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2017

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,633	64	1,569	1,569
February		1,647	428	1,219	1,219
March		1,466	302	1,164	1,164
April		1,829	658	1,171	1,171
May		2,002	283	1,719	1,719
June		2,024	414	1,610	1,610
July		1,577	227	1,350	1,350
August		1,617	335	1,282	1,282
September		1,797	33	1,764	1,764
October		1,617	355	1,262	1,262
November		2,062	757	1,305	1,305
December		1,659	346	1,313	1,313
Total for Year	-	20,930	4,202	16,728	16,728

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	120,888,000	41,344	Ground Water
Well	46,778,400	15,998	Ground Water

* Annual

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 459,360

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2017

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	246	246
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		246

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 186

YEAR OF REPORT
December 31, 2017

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 246
2. Maximum number of ERCs * which can be served. 260
3. Present system connection capacity (in ERCs *) using existing lines. 260
4. Future connection capacity (in ERCs *) upon service area buildout. 260
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421118
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WASTEWATER OPERATION SECTION

THE COMPANY DOES NOT PROVIDE WASTEWATER SERVICES

Reconciliation of Revenue to Regulatory Assessment Fee Revenue

Water Operations
Class A & B

Company:
For the Year Ended December 31, 2017

(a) Accounts	(b) Gross Water Revenues Per Sch. W-9	(c) Gross Water Revenues Per RAF Return	(d) Difference (b) - (c)
Gross Revenue:			
Unmetered Water Revenues (460)	$ 1,100,526	$ 1,100,526	$
Total Metered Sales (461.1 - 461.5)			
Total Fire Protection Revenue (462.1 - 462.2)			
Other Sales to Public Authorities (464)			
Sales to Irrigation Customers (465)			
Sales for Resale (466)			
Interdepartmental Sales (467)			
Total Other Water Revenues (469 - 474)			
Total Water Operating Revenue	$ 1,100,526	$ 1,100,526	$
LESS: Expense for Purchased Water from FPSC-Regulated Utility			
Net Water Operating Revenues	$ 1,100,526	$ 1,100,526	$

Explanations:

Instructions:
For the current year, reconcile the gross water revenues reported on Schedule W-9 with the gross water revenues reported on the company's regulatory assessment fee return. Explain any differences reported in column (d).

CLASS "A" OR "B"

WATER AND/OR WASTEWATER UTILITIES
(Gross Revenue of More Than $200,000 Each)

ANNUAL REPORT

OF

Sunshine Utilities of Central Florida, Inc.
Exact Legal Name of Respondent

363-W
Certificate Number(s)

Submitted To The

STATE OF FLORIDA

PUBLIC SERVICE COMMISSION

FOR THE

YEAR ENDED December 31, 2018

GENERAL INSTRUCTIONS

1. Prepare this report in conformity with the 1996 National Association of Regulatory Utility Commissioners Uniform System of Accounts for Water and/or Wastewater Utilities (USOA).

2. Interpret all accounting words and phrases in accordance with the USOA.

3. Complete each question fully and accurately, even if it has been answered in a previous annual report. Enter the word "None" where it truly and completely states the fact.

4. For any question, section, or page which is not applicable to the respondent, enter the words "Not Applicable". Do not omit any pages.

5. Where dates are called for, the month and day should be stated as well as the year.

6. All schedules requiring dollar entries should be rounded to the nearest dollar unless otherwise specifically indicated.

7. Complete this report by means which result in a permanent record, such as by computer or typewriter.

8. If there is not enough room on any schedule, an additional page or pages may be added; provided the format of the added schedule matches the format of the schedule with not enough room. Such a schedule should reference the appropriate schedules, state the name of the utility, and state the year of the report.

9. If it is necessary or desirable to insert additional statements for the purpose of further explanation of schedules, such statement should be made at the bottom of the page or an additional page inserted. Any additional pages should state the name of the utility, the year of the report, and reference the appropriate schedule.

10. For water and wastewater utilities with more than one rate group and/or system, water and wastewater pages should be completed for each rate group and/or system group. These pages should be grouped together and tabbed by rate group and/or system.

11. All other water and wastewater operations not regulated by the Commission and other regulated industries should be reported as "Other than Reporting Systems".

12. Financial information for multiple systems charging rates which are covered under the same tariff should be reported as one system. However, the engineering data must be reported by individual system.

13. For water and wastewater utilities with more than one system, one (1) copy of workpapers showing the consolidation of systems for the operating sections, should be filed with the annual report.

14. The report should be filled out in quadruplicate and the original and two copies returned by March 31, of the year following the date of the report. The report should be returned to:

Florida Public Service Commission
Division of Economic Regulation
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

The fourth copy should be retained by the utility.

TABLE OF CONTENTS

TABLE OF CONTENTS

EXECUTIVE SUMMARY

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

CERTIFICATION OF ANNUAL REPORT

I HEREBY CERTIFY, to the best of my knowledge and belief:

YES	NO		
X		1.	The utility is in substantial compliance with the Uniform System of Accounts prescribed by the Florida Public Service Commission.
X		2.	The utility is in substantial compliance with all applicable rules and orders of the Florida Public Service Commission.
X		3.	There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices that could have a material effect on the the financial statement of the utility.
X		4.	The annual report fairly represents the financial condition and results of operations of the respondent for the period presented and other information and statements presented in the the report as to the business affairs of the respondent are true, correct and complete for the period for which it represents.

Items Certified

1.	2.	3.	4.
X	X	X	X

1.	2.	3.	4.

(Signature of Chief Executive Officer of the utility) *

(Signature of Chief Financial Officer of the utility) *

* Each of the four items must be certified YES or NO. Each item need not be certified by both officers. The items being certified by the officer should be indicated in the appropriate area to the left of the signature.

NOTICE: Section 837.06, Florida Statutes, provides that any person who knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his duty shall be guilty of a misdemeanor of the second degree.

ANNUAL REPORT OF

YEAR OF REPORT
December 31, 2018

Sunshine Utilities of Central Florida, Inc. County: Marion

(Exact Name of Utility)

List below the exact mailing address of the utility for which normal correspondence should be sent:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228
E Mail Address:
WEB Site:

Sunshine State One-Call of Florida, Inc. Member Number SU-1134

Name and address of person to whom correspondence concerning this report should be addressed:
John Q. Adams II, CPA
Adams & Company, P.A.
2637 E Atlantic Blvd #43374
Pompano Beach, FL 33062
Telephone: (352) 804-2291

List below the address of where the utility's books and records are located:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228

List below any groups auditing or reviewing the records and operations:

Date of original organization of the utility: September 01, 1974

Check the appropriate business entity of the utility as filed with the Internal Revenue Service

Individual	Partnership	Sub S Corporation	1120 Corporation
		X	

List below every corporation or person owning or holding directly or indirectly 5% or more of the voting securities of the utility:

	Name	Percent Ownership
1.	"Hodges Family Trust - Christmas" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
2.	"Hodges Family Trust - Hodges" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
3.	"Hodges Family Trust - Rosin" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
4.	"Hodges Family Trust - Stone" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
5.	Trust split into four separate trust pursuant to QSST election IRC 1361 while maintaining	
6.	control by the co-trustees for the sole beneficiary of Clarise Hodges.	
7.		
8.		
9.		
10.		

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

DIRECTORY OF PERSONNEL WHO CONTACT THE FLORIDA PUBLIC SERVICE COMMISSION

NAME OF COMPANY REPRESENTATIVE (1)	TITLE OR POSITION (2)	ORGANIZATIONAL UNIT TITLE (3)	USUAL PURPOSE FOR CONTACT WITH FPSC
Dewaine W. Christmas	President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Pamela N. Christmas	Secretary	Sunshine Utilities of Central Florida, Inc	All Utility Matters
John Q. Adams, II	CPA	Adams & Company, P.A. 352-804-2291	Rate and Accounting Matters
James H Hodges, Jr.	Vice President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Jane M. Rop	Treasurer	Sunshine Utilities of Central Florida, Inc	All Utility Matters

(1) Also list appropriate legal counsel, accountants and others who may not be on general payroll.
(2) Provide individual telephone numbers if the person is not normally reached at the company.
(3) Name of company employed by if not on general payroll.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

COMPANY PROFILE

Provide a brief narrative company profile which covers the following areas:

A. Brief company history.
B. Public services rendered.
C. Major goals and objectives.
D. Major operating divisions and functions.
E. Current and projected growth patterns.
F. Major transactions having a material effect on operations.

A. The company was organized to provide potable water service to various subdivisions in Marion and Citrus Counties

B. The company provides water treatement and distribution services to customers in its certicated area.

C. The primary goal of the Company is to continue rendering quality service to its existing customers.

D. The Company provides water treatement and distribution services, only in Marion and Citrus Counties.

E. The Company expects to continue an average growth rate of approximately 1%.

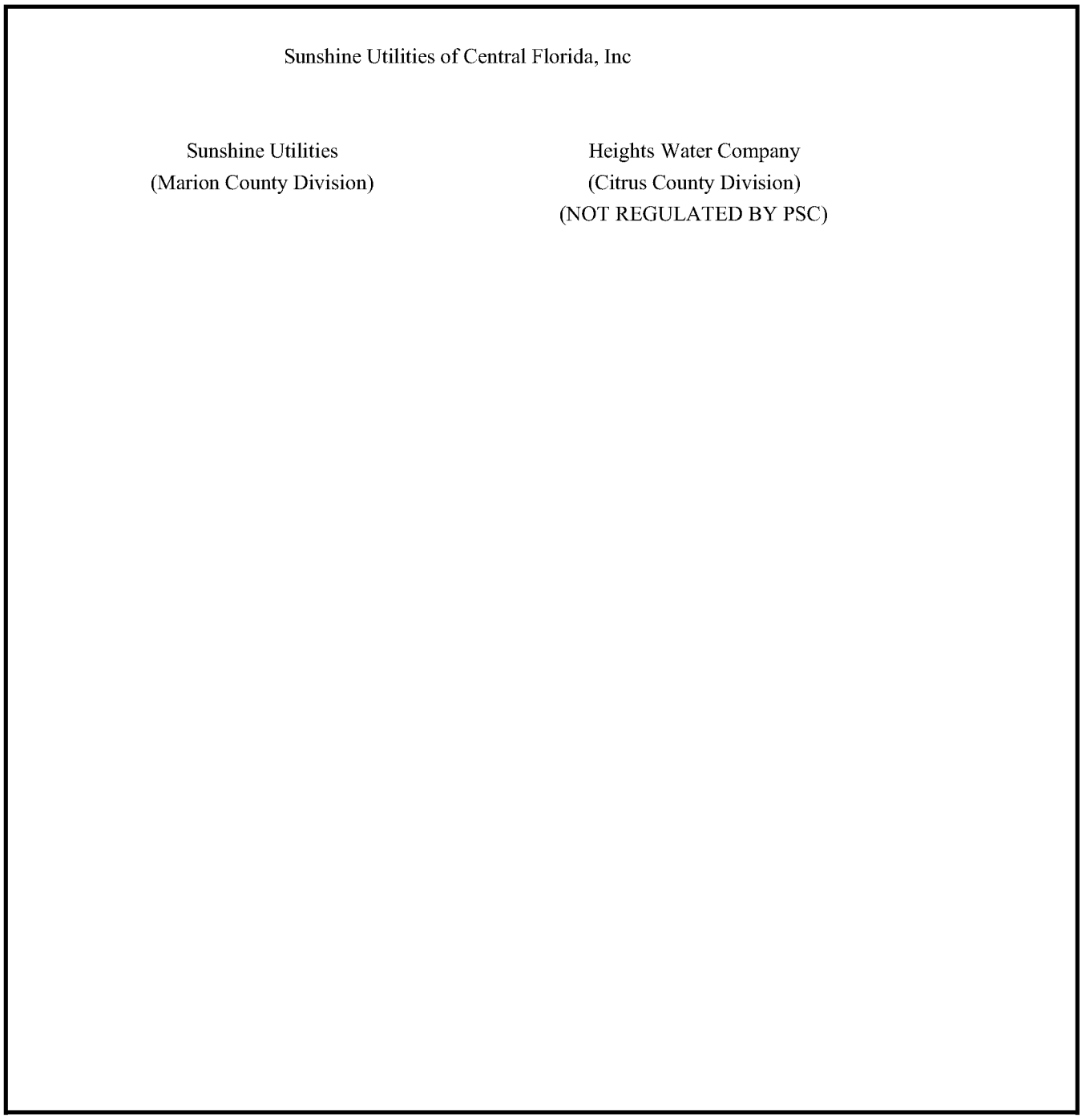
UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

PARENT / AFFILIATE ORGANIZATION CHART

Current as of December 31, 2018

Complete below an organizational chart that show all parents, subsidiaries and affiliates of the utility.
The chart must also show the relationship between the utility and affiliates listed on E-7, E-10(a) and E-10(b).



UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

COMPENSATION OF OFFICERS

For each officer, list the time spent on respondent as an officer compared to time spent on total business activities and the compensation received as an officer from the respondent.

NAME (a)	TITLE (b)	% OF TIME SPENT AS OFFICER OF THE UTILITY (c)	OFFICERS' COMPENSATION (d)
Dewaine W. Christmas	President	100%	$ 62,246
James H. Hodges, Jr.	Vice President	100%	63,026
Pamela N. Christmas	Secretary	100%	46,992
Jane M. Rop	Treasurer	100%	45,923

COMPENSATION OF DIRECTORS

For each director, list the number of director meetings attended by each director and the compensation received as a director from the respondent.

NAME (a)	TITLE (b)	NUMBER OF DIRECTORS' MEETINGS ATTENDED (c)	DIRECTORS' COMPENSATION (d)
Dewaine W. Christmas	Director	100%	$ None
James H. Hodges, Jr.	Director	100%	None

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

BUSINESS CONTRACTS WITH OFFICERS, DIRECTORS AND AFFILIATES

List all contracts, agreements, or other business arrangements* entered into during the calendar year (other than compensation related to position with Respondents) between the Respondent and officer and director listed on page E-6. In addition, provide the same information with respect to professional services for each firm, partnership, or organization with which the officer or director is affiliated.

NAME OF OFFICER, DIRECTOR OR AFFILIATE (a)	IDENTIFICATION OF SERVICE OR PRODUCT (b)	AMOUNT (c)	NAME AND ADDRESS OF AFFILIATED ENTITY (d)
None		$ -	

* Business Agreement, for this schedule, shall mean any oral or written business deal which binds the concerned parties for products or services during the reporting year or future years. Although the Respondent and/or other companies will benefit from the arrangement, the officer or director is, however, acting on his behalf or for the benefit of other companies or persons.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

AFFILIATION OF OFFICERS AND DIRECTORS

For each of the officials listed on page E-6, list the principal occupation or business affiliations or connections with any other business or financial organizations, firms, or partnerships. For purposes of this part, an official will be considered to have an affiliation with any business or financial organization, firm or partnership in which he is an officer, director, trustee, partner, or a person exercising similar functions.

NAME (a)	PRINCIPAL OCCUPATION OR BUSINESS AFFILIATION (b)	AFFILIATION OR CONNECTION (c)	NAME AND ADDRESS OF AFFILIATION OR CONNECTION (d)
None			

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

BUSINESSES WHICH ARE A BY-PRODUCT, COPRODUCT OR JOINT-PRODUCT RESULT OF PROVIDING WATER OR WASTEWATER SERVICE

Complete the following for any business which is conducted as a byproduct, coproduct, or joint product as a result of providing water and / or wastewater service. This would include any business which requires the use of utility land and facilities. Examples of these types of businesses would be orange groves, nurseries, tree farms, fertilizer manufacturing, etc. This would not include any business for which the assets are properly included in Account 121 - Nonutility Property along with the associated revenue and expenses segregated out as nonutility also.

	ASSETS		REVENUES		EXPENSES	
BUSINESS OR SERVICE CONDUCTED (a)	BOOK COST OF ASSETS (b)	ACCOUNT NUMBER (c)	REVENUES GENERATED (d)	ACCOUNT NUMBER (e)	EXPENSES INCURRED (f)	ACCOUNT NUMBER (g)
None	$		$		$	

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

BUSINESS TRANSACTIONS WITH RELATED PARTIES

List each contract, agreement, or other business transaction exceeding a cumulative amount of $500 in any on year, entered into between the Respondent and a business or financial organization, firm, or partnership named on pages E-2 and E-6, identifying the parties, amounts, dates and product, and asset, or service involved.

Part I. Specific Instructions: Services and Products Received or Provided

1. Enter in this part all transactions involving services and products received or provided.

2. Below are some types of transactions to include:
   - -management, legal and accounting services
   - -computer services
   - -engineering & construction services
   - -repairing and servicing of equipment
   - -material and supplies furnished
   - -leasing of structures, land, and equipment
   - -rental transactions
   - -sale, purchase or transfer of various products

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION SERVICE AND/OR NAME OF PRODUCT (b)	CONTRACT OR AGREEMENT EFFECTIVE DATES (c)	ANNUAL CHARGES (P)urchased (S)old (d)	ANNUAL CHARGES AMOUNT (e)
CH Utility Holdings, LLC	Lot Lease	7/10/2014		$ 102,777
CH Office Holdings, LLC	Office Lease	7/10/2014		9,760

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

BUSINESS TRANSACTIONS WITH RELATED PARTIES (Cont'd)

Part II. Specific Instructions: Sale, Purchase and Transfer of Assets

1. Enter in this part all transactions relating to the purchase, sale, or transfer of assets.

2 Below are examples of some types of transactions to include:
- -purchase, sale or transfer of equipment
- -purchase, sale or transfer of land and structures
- -purchase, sale or transfer of securities
- -noncash transfers of assets
- -noncash dividends other than stock dividends
- -write-off of bad debts or loans

3. The columnar instructions follow:

(a) Enter name of related party or company.
(b) Describe briefly the type of assets purchased, sold or transferred.
(c) Enter the total received or paid. Indicate purchase with "P" and sale with "S".
(d) Enter the net book value for each item reported.
(e) Enter the net profit or loss for each item reported. (column (c) - column (d))
(f) Enter the fair market value for each item reported. In space below or in a supplemental schedule, describe the basis used to calculate fair market value.

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION OF ITEMS (b)	SALE OR PURCHASE PRICE (c)	NET BOOK VALUE (d)	GAIN OR LOSS (e)	FAIR MARKET VALUE (f)
None		$	$	$	$

FINANCIAL SECTION

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	UTILITY PLANT			
101-106	Utility Plant	F-7	$ 3,364,228	$ 3,416,718
108-110	Less: Accumulated Depreciation and Amortization	F-8	2,535,950	2,617,389
	Net Plant		$ 828,278	$ 799,329
114-115	Utility Plant Acquisition adjustment (Net)	F-7	18,672	18,290
116 *	Other Utility Plant Adjustments			
	Total Net Utility Plant		$ 846,950	$ 817,619
	OTHER PROPERTY AND INVESTMENTS			
121	Nonutility Property	F-9	$ 0	$ 0
122	Less: Accumulated Depreciation and Amortization		0	0
	Net Nonutility Property		$ 0	$ 0
123	Investment in Associated Companies	F-10		
124	Utility Investments	F-10		
125	Other Investments	F-10		
126-127	Special Funds	F-10		
	Total Other Property & Investments		$ 0	$ 0
	CURRENT AND ACCRUED ASSETS			
131	Cash		$ 5,500	$ -5,711
132	Special Deposits	F-9	74,431	73,245
133	Other Special Deposits	F-9		
134	Working Funds			
135	Temporary Cash Investments			
141-144	Accounts and Notes Receivable, Less Accumulated Provision for Uncollectible Accounts	F-11	42,068	35,655
145	Accounts Receivable from Associated Companies	F-12		
146	Notes Receivable from Associated Companies	F-12		
151-153	Material and Supplies			
161	Stores Expense			
162	Prepayments		1,494	1,254
171	Accrued Interest and Dividends Receivable			
172 *	Rents Receivable			
173 *	Accrued Utility Revenues			
174	Miscellaneous Current and Accrued Assets	F-12		
	Total Current and Accrued Assets		$ 123,493	$ 104,443

* Not Applicable for Class B Utilities

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED DEBITS			
181	Unamortized Debt Discount & Expense	F-13	$	$
182	Extraordinary Property Losses	F-13		
183	Preliminary Survey & Investigation Charges		-	-
184	Clearing Accounts		-	-
185 *	Temporary Facilities		-	-
186	Miscellaneous Deferred Debits	F-14	7,184	40,516
187 *	Research & Development Expenditures		-	-
190	Accumulated Deferred Income Taxes		-	-
	Total Deferred Debits		$ 7,184	$ 40,516
	TOTAL ASSETS AND OTHER DEBITS		$ 977,627	$ 962,578

* Not Applicable for Class B Utilities

NOTES TO THE BALANCE SHEET

The space below is provided for important notes regarding the balance sheet.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	EQUITY CAPITAL			
201	Common Stock Issued	F-15	$ 100	$ 100
204	Preferred Stock Issued	F-15	-	-
202,205 *	Capital Stock Subscribed			
203,206 *	Capital Stock Liability for Conversion			
207 *	Premium on Capital Stock			
209 *	Reduction in Par or Stated Value of Capital Stock			
210 *	Gain on Resale or Cancellation of Reacquired Capital Stock			
211	Other Paid - In Capital		474,492	474,492
212	Discount On Capital Stock			
213	Capital Stock Expense			
214-215	Retained Earnings	F-16	(286,862)	(341,320)
216	Reacquired Capital Stock			
218	Proprietary Capital (Proprietorship and Partnership Only)			
	Total Equity Capital		$ 187,730	$ 133,272
	LONG TERM DEBT			
221	Bonds	F-15		
222 *	Reacquired Bonds			
223	Advances from Associated Companies	F-17	-	-
224	Other Long Term Debt	F-17	51,122	39,789
	Total Long Term Debt		$ 51,122	$ 39,789
	CURRENT AND ACCRUED LIABILITIES			
231	Accounts Payable		58,829	92,389
232	Notes Payable	F-18	67,463	108,313
233	Accounts Payable to Associated Companies	F-18	-	-
234	Notes Payable to Associated Companies	F-18	-	-
235	Customer Deposits		65,777	64,765
236	Accrued Taxes	W/S-3	19,792	18,306
237	Accrued Interest	F-19	32	(49)
238	Accrued Dividends		-	-
239	Matured Long Term Debt			
240	Matured Interest			
241	Miscellaneous Current & Accrued Liabilities	F-20	14,743	19,862
	Total Current & Accrued Liabilities		$ 226,636	$ 303,586

* Not Applicable for Class B Utilities

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED CREDITS			
251	Unamortized Premium On Debt	F-13	$ -	$ -
252	Advances For Construction	F-20	-	-
253	Other Deferred Credits	F-21	-	-
255	Accumulated Deferred Investment Tax Credits			
	Total Deferred Credits		$ -	$ -
	OPERATING RESERVES			
261	Property Insurance Reserve		$	$
262	Injuries & Damages Reserve			
263	Pensions and Benefits Reserve			
265	Miscellaneous Operating Reserves			
	Total Operating Reserves		$ -	$ -
	CONTRIBUTIONS IN AID OF CONSTRUCTION			
271	Contributions in Aid of Construction	F-22	$ 1,955,184	$ 1,978,697
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	(1,443,045)	(1,492,766)
	Total Net C.I.A.C.		$ 512,139	$ 485,931
	ACCUMULATED DEFERRED INCOME TAXES			
281	Accumulated Deferred Income Taxes - Accelerated Depreciation		$	$
282	Accumulated Deferred Income Taxes - Liberalized Depreciation			
283	Accumulated Deferred Income Taxes - Other			
	Total Accumulated Deferred Income Tax		$ -	$ -
	TOTAL EQUITY CAPITAL AND LIABILITIES		$ 977,627	$ 962,578

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR * (e)
	UTILITY OPERATING INCOME			
400	Operating Revenues	F-3(b)	$ 1,129,461	$ 1,115,429
469, 530	Less: Guaranteed Revenue and AFPI	F-3(b)	-	-
	Net Operating Revenues		$ 1,129,461	$ 1,115,429
401	Operating Expenses	F-3(b)	$ 954,952	$ 1,015,567
403	Depreciation Expense:	F-3(b)	$ 92,410	$ 96,570
	Less: Amortization of CIAC	F-22	47,538	49,723
	Net Depreciation Expense		$ 44,872	$ 46,847
406	Amortization of Utility Plant Acquisition Adjustment	F-3(b)	1,874	382
407	Amortization Expense (Other than CIAC)	F-3(b)	-	-
408	Taxes Other Than Income	W/S-3	98,991	99,500
409	Current Income Taxes	W/S-3	-	-
410.10	Deferred Federal Income Taxes	W/S-3	-	-
410.11	Deferred State Income Taxes	W/S-3	-	-
411.10	Provision for Deferred Income Taxes - Credit	W/S-3	-	-
412.10	Investment Tax Credits Deferred to Future Periods	W/S-3	-	-
412.11	Investment Tax Credits Restored to Operating Income	W/S-3	-	-
	Utility Operating Expenses		$ 1,100,689	$ 1,162,296
	Net Utility Operating Income		$ 28,772	$ (46,867)
469, 530	Add Back: Guaranteed Revenue and AFPI	F-3(b)	-	-
413	Income From Utility Plant Leased to Others		-	-
414	Gains (losses) From Disposition of Utility Property		-	-
420	Allowance for Funds Used During Construction		-	-
	Total Utility Operating Income [Enter here and on Page F-3(c)]		$ 28,772	$ (46,867)

* For each account, Column e should agree with Columns f, g and h on F-3(b)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE OPERATING STATEMENT (Cont'd)

WATER SCHEDULE W-3 * (f)	WASTEWATER SCHEDULE S-3 * (g)	OTHER THAN REPORTING SYSTEMS (h)
$ 1,084,607	$ -	$ 30,822
-	$ -	
$ 1,084,607	$ -	$ 30,822
$ 981,532	$ -	$ 34,035
93,666	$ -	2,904
49,228	$ -	495
$ 44,438	$ -	$ 2,409
746	$ -	(364)
-	$ -	
96,765	$ -	2,735
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
$ 1,123,481	$ -	$ 38,815
$ (38,874)	$ -	$ (7,993)
-	$ -	
-	$ -	
-	$ -	-
-	$ -	
$ (38,874)	$ -	$ (7,993)

* Total of Schedules W-3 / S-3 for all rate groups.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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COMPARATIVE OPERATING STATEMENT (Cont'd)

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
Total Utility Operating Income [from page F-3(a)]			$ 28,772	$ (46,867)
	OTHER INCOME AND DEDUCTIONS			
415	Revenues-Merchandising, Jobbing, and Contract Deductions		$	$
416	Costs & Expenses of Merchandising Jobbing, and Contract Work			
419	Interest and Dividend Income		35	41
421	Nonutility Income		2,754	178
426	Miscellaneous Nonutility Expenses		(4,094)	-
Total Other Income and Deductions			$ (1,305)	$ 219
	TAXES APPLICABLE TO OTHER INCOME			
408.20	Taxes Other Than Income		$	$
409.20	Income Taxes			
410.20	Provision for Deferred Income Taxes			
411.20	Provision for Deferred Income Taxes - Credit			
412.20	Investment Tax Credits - Net			
412.30	Investment Tax Credits Restored to Operating Income			
Total Taxes Applicable To Other Income			$ -	$ -
	INTEREST EXPENSE			
427	Interest Expense	F-19	$ (4,845)	$ (7,772)
428	Amortization of Debt Discount & Expense	F-13		
429	Amortization of Premium on Debt	F-13		
Total Interest Expense			$ (4,845)	$ (7,772)
	EXTRAORDINARY ITEMS			
433	Extraordinary Income		$	$
434	Extraordinary Deductions			
409.30	Income Taxes, Extraordinary Items			
Total Extraordinary Items			$ -	$ -
NET INCOME			$ 22,622	$ (54,420)

Explain Extraordinary Income:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF YEAR END RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	WATER UTILITY (d)	WASTEWATER UTILITY (e)
101	Utility Plant In Service	F-7	$ 3,331,265	$ -
	Less:			
	Nonused and Useful Plant (1)		57,604	
108	Accumulated Depreciation	F-8	2,563,286	-
110	Accumulated Amortization	F-8	-	-
271	Contributions in Aid of Construction	F-22	1,957,959	-
252	Advances for Construction	F-20	-	
	Subtotal		$ (1,247,584)	$ -
	Add:			
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	1,479,725	-
	Subtotal		$ 232,141	$ 0
	Plus or Minus:			
114	Acquisition Adjustments (2)	F-7	29,838	-
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(11,189)	-
	Working Capital Allowance (3)		122,692	-
	Other (Specify):			
105	Construction in Process		67	-
	RATE BASE		$ 373,549	$ -
	NET UTILITY OPERATING INCOME		$ (38,874)	$ -
	ACHIEVED RATE OF RETURN (Operating Income / Rate Base)		-10.41%	

NOTES :

(1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SCHEDULE OF CURRENT COST OF CAPITAL
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING (1)

CLASS OF CAPITAL (a)	DOLLAR AMOUNT (2) (b)	PERCENTAGE OF CAPITAL (c)	ACTUAL COST RATES (3) (d)	WEIGHTED COST (c x d) (e)
Common Equity	$ 100	-		
Preferred Stock		-		
Long Term Debt		-		
Customer Deposits		-		
Tax Credits - Zero Cost		-		
Tax Credits - Weighted Cost		-		
Deferred Income Taxes		-		
Other (Explain)		-		
		-		
Total	$ 100			

(1) If the utility's capital structure is not used, explain which capital structure is used.

(2) Should equal amounts on Schedule F-6, Column (g).

(3) Mid-point of the last authorized Return On Equity or current leverage formula if none has been established.

Must be calculated using the same methodology used in the last rate proceeding using current annual report year end amounts and cost rates.

APPROVED RETURN ON EQUITY

Current Commission Return on Equity:	9.13
Commission order approving Return on Equity:	12-0357-PAA-WU

APPROVED AFUDC RATE

COMPLETION ONLY REQUIRED IF AFUDC WAS CHARGED DURING YEAR

Current Commission Approved AFUDC rate:	9.13%
Commission order approving AFUDC rate:	12-0357-PPA-WU

If any utility capitalized any charge in lieu of AFUDC (such as interest only), state the basis of the charge, an explanation as to why AFUDC was not charged and the percentage capitalized.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF CAPITAL STRUCTURE ADJUSTMENTS
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING

CLASS OF CAPITAL (a)	PER BOOK BALANCE (b)	NON-UTILITY ADJUSTMENTS (c)	NON-JURISDICTIONAL ADJUSTMENTS (d)	OTHER (1) ADJUSTMENTS SPECIFIC (e)	OTHER (1) ADJUSTMENTS PRO RATA (f)	CAPITAL STRUCTURE (g)
Common Equity	$ 100	$	$	$	$	$
Preferred Stock						
Long Term Debt						
Customer Deposits						
Tax Credits - Zero Cost						
Tax Credits - Weighted Cost						
Deferred Inc. Taxes						
Other (Explain)						
Total	$ 100	$	$	$	$	$

(1) Explain below all adjustments made in Columns (e) and (f):

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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UTILITY PLANT
ACCOUNTS 101 - 106

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
	Plant Accounts:				
101	Utility Plant In Service	$ 3,331,265	$	$ 85,386	$ 3,416,651
102	Utility Plant Leased to Other				-
103	Property Held for Future Use				-
104	Utility Plant Purchased or Sold				-
105	Construction Work in Progress	67			67
106	Completed Construction Not Classified				-
	Total Utility Plant	$ 3,331,332	$ -	$ 85,386	$ 3,416,718

UTILITY PLANT ACQUISITION ADJUSTMENTS
ACCOUNTS 114 AND 115

Report each acquisition adjustment and related accumulated amortization separately.
For any acquisition adjustments approved by the Commission, include the Order Number.

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
114	Acquisition Adjustment Heights Water Company	$ 10,000			$ 10,000
	Acq Adj - Sandy Acres	39,523			39,523
	Acq Adj - Quail Run	(19,685)			(19,685)
	Acq Adj - Comm. Water			(14,548)	(14,548)
					-
Total Plant Acquisition Adjustments		$ 29,838	$ -	$ (14,548)	$ 15,290
115	Accumulated Amortization AA Heights Water Compan	$ 3,750			$ 3,750
	AA Acq Adj - Sandy Acres	14,821			14,821
	AA Acq Adj - Quail Run	(7,382)			(7,382)
	AA Acq Adj - Comm. Water			(14,189)	(14,189)
					-
Total Accumulated Amortization		$ 11,189	$ -	$ (14,189)	$ (3,000)
Net Acquisition Adjustments		$ 18,649	$ -	$ (359)	$ 18,290

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCUMULATED DEPRECIATION (ACCT. 108) AND AMORTIZATION (ACCT. 110)

DESCRIPTION (a)	WATER (b)	WASTEWATER (c)	OTHER THAN REPORTING SYSTEMS (d)	TOTAL (e)
ACCUMULATED DEPRECIATION Account 108				
Balance first of year	$ 2,482,403	$	$ 53,547	$ 2,535,950
Credit during year:				
Accruals charged to:				
Account 108.1 (1)	$ 93,666	$	$ 2,904	$ 96,570
Account 108.2 (2)				-
Account 108.3 (2)				-
Other Accounts (specify):				-
				-
				-
Salvage	-			-
Other Credits (Specify):	-			-
as per auditor auditor adjustment				-
Total Credits	$ 93,666	$ -	$ 2,904	$ 96,570
Debits during year:				
Book cost of plant retired	12,783		2,348	15,131
Cost of Removal				-
Other Debits (specify):				-
				-
				-
Total Debits	$ 12,783	$ -	$ 2,348	$ 15,131
Balance end of year	$ 2,563,286	$ -	$ 54,103	$ 2,617,389
ACCUMULATED AMORTIZATION Account 110				
Balance first of year	$	$	$	$ -
Credit during year:				
ruals charged to:				
	$	$	$	$ -
Account 110.2 (3)				-
Other Accounts (specify):				-
				-
Total credits	$ -	$ -	$ -	$ -
Debits during year:				
Book cost of plant retired				-
Other debits (specify):				-
				-
Total Debits	$ -	$ -	$ -	$ -
Balance end of year	$ -	$ -	$ -	$ -

(1) Account 108 for Class B utilities.

(2) Not applicable for Class B utilities.

(3) Account 110 for Class B utilities.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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REGULATORY COMMISSION EXPENSE
AMORTIZATION OF RATE CASE EXPENSE (ACCOUNTS 666 AND 766)

DESCRIPTION OF CASE (DOCKET NO.) (a)	EXPENSE INCURRED DURING YEAR (b)	CHARGED OFF DURING YEAR	
		ACCT. (d)	AMOUNT (e)
100048-WU	$ -	0	$
Total	$		$

NONUTILITY PROPERTY (ACCOUNT 121)

Report separately each item of property with a book cost of $25,000 or more included in Account 121.
Other Items may be grouped by classes of property.

DESCRIPTION (a)	BEGINNING YEAR (b)	ADDITIONS (c)	REDUCTIONS (d)	ENDING YEAR BALANCE (e)
None	$	$	$	$
Total Nonutility Property	$ -	$ -	$ -	$ -

SPECIAL DEPOSITS (ACCOUNTS 132 AND 133)

Report hereunder all special deposits carried in Accounts 132 and 133.

DESCRIPTION OF SPECIAL DEPOSITS (a)	YEAR END BOOK COST (b)
SPECIAL DEPOSITS (Account 132):	
Customer Deposits	$ 64,765
Total Special Deposits	$ 74,431
OTHER SPECIAL DEPOSITS (Account 133):	
Interim Rate Reserve	$ -
Health Insurance Co-Pay	-
Total Other Special Deposits	$ -

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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INVESTMENTS AND SPECIAL FUNDS
ACCOUNTS 123 - 127

Report hereunder all investments and special funds carried in Accounts 123 through 127.

DESCRIPTION OF SECURITY OR SPECIAL FUND (a)	FACE OR PAR VALUE (b)	YEAR END BOOK COST (c)
INVESTMENT IN ASSOCIATED COMPANIES (Account 123):	$	$
None		
Total Investment in Associated Companies		$
UTILITY INVESTMENTS (Account 124):	$	$
None		
Total Utility Investment		$
OTHER INVESTMENTS (Account 125):	$	$
None		
Total Other Investment		$
SPECIAL FUNDS (Class A Utilities: Accounts 126 and 127; Class B Utilities: Account 127):		$
None		
Total Special Funds		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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ACCOUNTS AND NOTES RECEIVABLE - NET
ACCOUNTS 141 - 144

Report hereunder all accounts and notes receivable included in Accounts 141, 142, and 144. Amounts included in Amounts included in Accounts 142 and 144 should be listed individually.

DESCRIPTION (a)		TOTAL (b)
CUSTOMER ACCOUNTS RECEIVABLE (Account 141):		
Water	$ 33,667	
Wastewater		
Other		
Total Customer Accounts Receivable		$ 33,667
OTHER ACCOUNTS RECEIVABLE (Account 142):		
Employee accounts receivable	$ 1,988	
Total Other Accounts Receivable		$ 1,988
NOTES RECEIVABLE (Account 144):		
	$	
None		
Total Notes Receivable		$ -
Total Accounts and Notes Receivable		$ 35,655
ACCUMULATED PROVISION FOR UNCOLLECTIBLE ACCOUNTS (Account 143)		
Balance first of year	$	
Add: Provision for uncollectibles for current year	$	
Collection of accounts previously written off		
Utility Accounts		
Others		
Total Additions	$	
Deduct accounts written off during year:		
Utility Accounts		
Others		
Total accounts written off	$	
Balance end of year		$ -
TOTAL ACCOUNTS AND NOTES RECEIVABLE - NET		$ 35,655

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCOUNTS RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 145

Report each account receivable from associated companies separately.

DESCRIPTION (a)	TOTAL (b)
None	$
Total	$

NOTES RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 146

Report each note receivable from associated companies separately.

DESCRIPTION (a)	INTEREST RATE (b)	TOTAL (c)
None	%	$
Total		$

MISCELLANEOUS CURRENT AND ACCRUED ASSETS
ACCOUNT 174

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
None	$
Total Miscellaneous Current and Accrued Liabilities	$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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UNAMORTIZED DEBT DISCOUNT AND EXPENSE AND PREMIUM ON DEBT
ACCOUNTS 181 AND 251

Report the net discount and expense or premium separately for each security issue.

DESCRIPTION (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
UNAMORTIZED DEBT DISCOUNT AND EXPENSE (Account 181):		
None	$	$
Total Unamortized Debt Discount and Expense	$	$
UNAMORTIZED PREMIUM ON DEBT (Account 251):		
None	$	$
Total Unamortized Premium on Debt	$	$ -

EXTRAORDINARY PROPERTY LOSSES
ACCOUNT 182

Report each item separately.

DESCRIPTION (a)	TOTAL (b)
None	$
Total Extraordinary Property Losses	$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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MISCELLANEOUS DEFERRED DEBITS
ACCOUNT 186

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
DEFERRED RATE CASE EXPENSE (Class A Utilities: Account 186.1)		
	$	$ -
Total Deferred Rate Case Expense	$ -	$ -
OTHER DEFERRED DEBITS (Class A Utilities: Account 186.2):		
3 year well maintenance & testing	$ 8,911	23,209
5 year tank testing	3,518	17,307
Total Other Deferred Debits	$ 12,429	$ 40,516
REGULATORY ASSETS (Class A Utilities: Account. 186.3):		
	$	$
Total Regulatory Assets	$ -	$ -
TOTAL MISCELLANEOUS DEFERRED DEBITS	$ 12,429	$ 40,516

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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CAPITAL STOCK
ACCOUNTS 201 AND 204*

DESCRIPTION (a)	RATE (b)	TOTAL (c)
COMMON STOCK		
Par or stated value per share	%	$ 1
Shares authorized		7,500
Shares issued and outstanding		100
Total par value of stock issued	%	$ 100
Dividends declared per share for year	%	$
PREFERRED STOCK		
Par or stated value per share	None %	$
Shares authorized		
Shares issued and outstanding		
Total par value of stock issued	%	$
Dividends declared per share for year	%	$

* Account 204 not applicable for Class B utilities.

BONDS
ACCOUNT 221

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total			$

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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STATEMENT OF RETAINED EARNINGS

1. Dividends should be shown for each class and series of capital stock. Show amounts as dividends per share.
2. Show separately the state and federal income tax effect of items shown in Account No. 439.

ACCT. NO. (a)	DESCRIPTION (b)	AMOUNTS (c)
215	Unappropriated Retained Earnings:	
	Balance Beginning of Year	$ (286,860)
	Changes to Account:	
439	Adjustments to Retained Earnings (requires Commission approval prior to use):	
	Credits:	$ -
	Total Credits:	$ -
	Debits:	$
	Total Debits:	$ -
435	Balance Transferred from Income	$ (54,420)
436	Appropriations of Retained Earnings:	
	Total Appropriations of Retained Earnings	$ -
	Dividends Declared:	
437	Preferred Stock Dividends Declared	
438	Common Stock Dividends Declared — Shareholder Distributions	40
	Total Dividends Declared	$ 40
215	Year end Balance	$ (341,320)
214	Appropriated Retained Earnings (state balance and purpose of each appropriated amount at year end):	
214	Total Appropriated Retained Earnings	$ -
Total Retained Earnings		$ (341,320)

Notes to Statement of Retained Earnings:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

ADVANCES FROM ASSOCIATED COMPANIES
ACCOUNT 223

Report each advance separately.

DESCRIPTION (a)	TOTAL (b)
None	$ -
Total	$ -

OTHER LONG-TERM DEBT
ACCOUNT 224

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
Devoloper Payments Due Harper Boulder Hill	0.00 %		$ 286
Developer Payments Due Ellison Country Walk	0.00 %		519
Developer Payments Due Albright Hilltop	0.00 %		7,946
Developer Payments Due Williamson Northwoods	0.00 %		1,271
Developer Payments Due Ellison Stonehill	0.00 %		278
Developer Payments Due Labuinger Silverwood Villa	0.00 %		100
Developer Payments Due Seyler Conventry	0.00 %		3,445
Developer Payments Due Lake Bryant Estates	0.00 %		3,635
Developer Payments Due Albright Lake Weir Hgts 2nd Add	0.00 %		2,112
Developer Payments Due Tuscany Hills	0.00 %		8,970
Developer Payments Due Lexington Estates Developer AGR	0.00 %		11,227
	%		
	%		
	%		
	%		
	%		
Total			$ 39,789

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

NOTES PAYABLE
ACCOUNTS 232 AND 234

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
NOTES PAYABLE (Account 232):			
	%		$ -
L/P Kyocera Copier	0.00 %	Fixed	313
Line of Credit	7.50 %	Prime + 2%	98,000
Loan Payable Dewaine Christmas	0.00 %		5,000
Loan Payable James Hodges Jr.	0.00 %		5,000
	%		
	%		
	%		
Total Account 232			$ 108,313
NOTES PAYABLE TO ASSOC. COMPANIES (Account 234):			
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total Account 234			$ -

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

ACCOUNTS PAYABLE TO ASSOCIATED COMPANIES
ACCOUNT 233

Report each account payable separately.

DESCRIPTION (a)	TOTAL (b)
	$
None	
Total	$ -

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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ACCRUED INTEREST AND EXPENSE
ACCOUNTS 237 AND 427

DESCRIPTION OF DEBIT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR		INTEREST PAID DURING YEAR (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
ACCOUNT NO. 237.1 - Accrued Interest on Long Term Debt					
	$		$	$	$
	-	427.4	-	-	
		428	-	-	
Total Account 237.1	$ -		$ -	$ -	$ -
ACCOUNT NO. 237.2 - Accrued Interest on Other Liabilities					
Customer Deposits	$ 40	427	$ 1,838	1,927	$ (49)
		427			
Line of Credit		427	5,934	5,934	
Total Account 237.2	$ 32		$ 7,772	$ 7,861	$ (49)
Total Account 237 (1)	$ 32		$ 7,772	$ 7,861	$ (49)
INTEREST EXPENSED:					
Total accrual Account 237		237	$ 7,772		
Less Capitalized Interest Portion of AFUDC:					
Net Interest Expensed to Account No. 427 (2)			$ 7,772		

(1) Must agree to F-2 (a), Beginning and Ending Balance of Accrued Interest.

(2) Must agree to F-3 (c), Current Year Interest Expense

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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MISCELLANEOUS CURRENT AND ACCRUED LIABILITIES
ACCOUNT 241

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
	$
Accrued Payroll	3,035
Pension & Benefit Reserve	16,827
Total Miscellaneous Current and Accrued Liabilities	$ 19,862

ADVANCES FOR CONSTRUCTION
ACCOUNT 252

NAME OF PAYOR * (a)	BALANCE BEGINNING OF YEAR (b)	DEBITS		CREDITS (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
	$	252	$		$ -
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252	-		-
		252			-
		252	-		-
Total	$ -		$ -	$ -	$ -

* Report advances separately by reporting group, designating water or wastewater in column (a).

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

OTHER DEFERRED CREDITS
ACCOUNT 253

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
REGULATORY LIABILITIES (Class A Utilities: Account 253.1):		
None	$	$
Total Regulatory Liabilities	$ -	$ -
OTHER DEFERRED LIABILITIES (Class A Utilities: Account 253.2):		
None	$	$
Total Other Deferred Liabilities	$ -	$ -
TOTAL OTHER DEFERRED CREDITS	$ -	$ -

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	WATER (W-7) (b)	WASTEWATER (S-7) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,935,604	$ -	$ 19,580	$ 1,955,184
Add credits during year:	$ 22,355		1,158	23,513
Less debit charged during the year	$	$ -	$	$ -
Total Contribution In Aid of Construction	$ 1,957,959	$ -	$ 20,738	$ 1,978,697

ACCUMULATED AMORTIZATION OF CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 272

DESCRIPTION (a)	WATER (W-8(a)) (b)	WASTEWATER (S-8(a)) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,430,497	$ -	$ 12,547	$ 1,443,044
Debits during the year:	$ 49,228		494	$ 49,722
Credits during the year	$ -	$ -	$	$ -
Total Accumulated Amortization of Contributions In Aid of Construction	$ 1,479,725	$ -	$ 13,041	$ 1,492,766

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

RECONCILIATION OF REPORTED NET INCOME WITH TAXABLE INCOME FOR FEDERAL INCOME TAXES (UTILITY OPERATIONS)

1. The reconciliation should include the same detail as furnished on Schedule M-1 of the federal tax return for the year. The reconciliation shall be submitted even though there is no taxable income for the year. Descriptions should clearly indicate the nature of each reconciling amount and show the computations of all tax accruals.

2. If the utility is a member of a group which files a consolidated federal tax return, reconcile reported net income with taxable net income as if a separate return were to be filed, indicating intercompany amounts to be eliminated in such consolidated return. State names of group members, tax assigned to each group member, and basis of allocation, assignments or sharing of the consolidated tax among the group members.

DESCRIPTION (a)	REF. NO. (b)	AMOUNT (c)
Net income for the year	F-3(c)	$
Reconciling items for the year:		
Taxable income not reported on books:		
		-
		-
		-
		-
Deductions recorded on books not deducted for return:		
Income recorded on books not included in return:		
		-
		-
		-
		-
Deduction on return not charged against book income:		
		-
		-
		-
		-
Federal tax net income		$ -

Computation of tax :

This Corporation is an "S" Corporation, therfore this schedule is not applicable

WATER
OPERATION
SECTION
GROUP 1

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 204,238
	Less: Nonused and Useful Plant (1)		621
108	Accumulated Depreciation	W-6(b)	75,212
110	Accumulated Amortization		-
271	Contributions in Aid of Construction	W-7	21,539
252	Advances for Construction	F-20	-
	Subtotal		$ 106,866
272	Add: Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 7,261
	Subtotal		$ 114,127
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	(9,685)
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	3,390
	Working Capital Allowance (3)		7,564
	Other (Specify):		
105	Construction in Process		-
	WATER RATE BASE		$ 115,396
	WATER OPERATING INCOME	W-3	$ 10,641
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		9.22%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 82,522
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 82,522
401	Operating Expenses	W-10(a)	$ 60,512
403	Depreciation Expense	W-6(a)	6,503
	Less: Amortization of CIAC	W-8(a)	671
	Net Depreciation Expense		$ 5,832
406	Amortization of Utility Plant Acquisition Adjustment	F-7	(976)
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		3,673
408.11	Property Taxes		1,173
408.12	Payroll Taxes		1,667
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 6,513
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 71,881
	Utility Operating Income		$ 10,641
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		-
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ 10,641

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ 0	$		$ 0
302	Franchises	0			0
303	Land and Land Rights	36,113			36,113
304	Structures and Improvements	5,207			5,207
305	Collecting and Impounding Reservoirs	0			0
306	Lake, River and Other Intakes	0			0
307	Wells and Springs	43,921			43,921
308	Infiltration Galleries and Tunnels	0			0
309	Supply Mains	0			0
310	Power Generation Equipment	0			0
311	Pumping Equipment	22,825	4,218	-1,960	25,083
320	Water Treatment Equipment	7,518	581		8,099
330	Distribution Reservoirs and Standpipes	39,572			39,572
331	Transmission and Distribution Mains	11,648			11,648
333	Services	10,393	311		10,704
334	Meters and Meter Installations	12,356			12,356
335	Hydrants	0			0
336	Backflow Prevention Devices	0			0
339	Other Plant Miscellaneous Equipment	0			0
340	Office Furniture and Equipment	8,204			8,204
341	Transportation Equipment	1,874			1,874
342	Stores Equipment	0			0
343	Tools, Shop and Garage Equipment	1,342	115		1,457
344	Laboratory Equipment	0			0
345	Power Operated Equipment	0			0
346	Communication Equipment	0			0
347	Miscellaneous Equipment	0			0
349	Abandonment of Regional Plant	0			0
	TOTAL WATER PLANT	$ 200,973	$ 5,225	$ -1,960	$ 204,238

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ 0	$ 0	$	$	$	$
302	Franchises	0	0				
303	Land and Land Rights	36,113		36,113			
304	Structures and Improvements	5,207		5,207			
305	Collecting and Impounding Reservoirs	0		0			
306	Lake, River and Other Intakes	0		0			
307	Wells and Springs	43,921		43,921			
308	Infiltration Galleries and Tunnels	0		0			
309	Supply Mains	0		0			
310	Power Generation Equipment	0		0			
311	Pumping Equipment	25,083		25,083			
320	Water Treatment Equipment	8,099			8,099		
330	Distribution Reservoirs and Standpipes	39,572				39,572	
331	Transmission and Distribution Mains	11,648				11,648	
333	Services	10,704				10,704	
334	Meters and Meter Installations	12,356				12,356	
335	Hydrants	0				0	
336	Backflow Prevention Devices	0					
339	Other Plant Miscellaneous Equipment	0	0				
340	Office Furniture and Equipment	8,204					8,204
341	Transportation Equipment	1,874					1,874
342	Stores Equipment	0					0
343	Tools, Shop and Garage Equipment	1,457					1,457
344	Laboratory Equipment	0					
345	Power Operated Equipment	0					0
346	Communication Equipment	0					0
347	Miscellaneous Equipment	0					0
349	Abandonment of Regional Plant	0					0
	TOTAL WATER PLANT	$ 204,238	$ 0	$ 110,324	$ 8,099	$ 74,280	$ 11,535

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ 0	$ 0		$ 0
304	Structures and Improvements	5,207	0		0
305	Collecting and Impounding Reservoirs	0			0
306	Lake, River and Other Intakes	0			0
307	Wells and Springs	13,083	1,464		1,464
308	Infiltration Galleries and Tunnels	0			0
309	Supply Mains	0	0		0
310	Power Generation Equipment	0	0		0
311	Pumping Equipment	15,153	1,081		1,081
320	Water Treatment Equipment	1,610	352		352
330	Distribution Reservoirs and Standpipes	11,281	1,799		1,799
331	Transmission and Distribution Mains	11,647			0
333	Services	641	243		243
334	Meters and Meter Installations	6,408	618		618
335	Hydrants	0			0
336	Backflow Prevention Devices	0			0
339	Other Plant Miscellaneous Equipment	0	0		0
340	Office Furniture and Equipment	4,628	547		547
341	Transportation Equipment	680	312		312
342	Stores Equipment	0	0		0
343	Tools, Shop and Garage Equipment	330	87		87
344	Laboratory Equipment	0			0
345	Power Operated Equipment	0	0		0
346	Communication Equipment	0	0		0
347	Miscellaneous Equipment	0	0		0
349	Abandonment of Regional Plant	0	0		0
TOTAL WATER ACCUMULATED DEPRECIATION		$ 70,668	$ 6,503	$ 0	$ 6,503

* Auditor Adjustment
Use ( ) to denote reversal entries.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$			$ 0	$ 0
304	Structures and Improvements				0	5,207
305	Collecting and Impounding Reservoirs				0	0
306	Lake, River and Other Intakes				0	0
307	Wells and Springs				0	14,547
308	Infiltration Galleries and Tunnels				0	0
309	Supply Mains			0	0	0
310	Power Generation Equipment				0	0
311	Pumping Equipment	1,959		0	1,959	14,275
320	Water Treatment Equipment				0	1,962
330	Distribution Reservoirs and Standpipes				0	13,080
331	Transmission and Distribution Mains				0	11,647
333	Services				0	884
334	Meters and Meter Installations				0	7,026
335	Hydrants				0	0
336	Backflow Prevention Devices				0	0
339	Other Plant Miscellaneous Equipment				0	0
340	Office Furniture and Equipment				0	5,175
341	Transportation Equipment				0	992
342	Stores Equipment				0	0
343	Tools, Shop and Garage Equipment				0	417
344	Laboratory Equipment				0	0
345	Power Operated Equipment				0	0
346	Communication Equipment				0	0
347	Miscellaneous Equipment				0	0
349	Abandonment of Regional Plant				0	0
TOTAL WATER ACCUMULATED DEPRECIATION		$ 1,959	$ 0	$ 0	$ 1,959	$ 75,212

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 20,309
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 1,230
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	0
Total Credits		$ 1,230
Less debits charged during the year (All debits charged during the year must be explained below)		$ 0
Total Contributions In Aid of Construction		$ 21,539

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter		$ 865.0	$ -
Other Side Tap 3/4" meter	1	1,230.0	1,230
-	-	-	-
-	-	-	-
	-		-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-
Total Credits			$ 1,230

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 6,590
Debits during the year:	
Accruals charged to Account 272	$ 671
Other debits (specify) :	
Total debits	$ 671
Credits during the year (specify) :	
Audit Adjustment	$ 0
Total credits	$ -
Balance end of year	$ 7,261

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
NA		$
Total Credits		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue			$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	290	289	75,319
461.2	Sales to Commercial Customers			
461.3	Sales to Industrial Customers			
461.4	Sales to Public Authorities			
461.5	Sales Multiple Family Dwellings			
	Total Metered Sales	290	289	$ 75,319
	Fire Protection Revenue:			
462.1	Public Fire Protection			
462.2	Private Fire Protection			
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities			
465	Sales To Irrigation Customers			
466	Sales For Resale			
467	Interdepartmental Sales			
	Total Water Sales	290	289	$ 75,319
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$
470	Forfeited Discounts			
471	Miscellaneous Service Revenues			7,203
472	Rents From Water Property			
473	Interdepartmental Rents			
474	Other Water Revenues			
	Total Other Water Revenues			$ 7,203
	Total Water Operating Revenues			$ 82,522

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 8,525	$	2,166
603	Salaries and Wages - Officers, Directors and Majority Stockholders	12,918		544
604	Employee Pensions and Benefits	4,489		567
610	Purchased Water	-		
615	Purchased Power	4,232	4,029	-
616	Fuel for Power Production	-	-	
618	Chemicals	1,110		
620	Materials and Supplies	2,154		435
631	Contractual Services-Engineering	-	-	
632	Contractual Services - Accounting	2,858		
633	Contractual Services - Legal	-		
634	Contractual Services - Mgt. Fees	-		
635	Contractual Services - Testing	2,269		
636	Contractual Services - Other	8,833		1,573
641	Rental of Building/Real Property	738	-	
642	Rental of Equipment	440		440
650	Transportation Expenses	4,171		
656	Insurance - Vehicle	675		
657	Insurance - General Liability	-		
658	Insurance - Workman's Comp.	907		
659	Insurance - Other	-		
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-		
668	Water Resource Conservation Exp.	-		
670	Bad Debt Expense	541		
675	Miscellaneous Expenses	$ 5,652	1,000	-
	Total Water Utility Expenses	$ 60,512	$ 5,029	$ 5,725

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	287	-	2,603	3,091	378
	119		281	3,592	8,382
	85		604	1,399	1,834
					203
1,110					
	11		1,708		-
					2,858
					-
2,269			-		
	7,260		-		-
					738
		-			-
				4,171	-
				675	
				-	
					907
				541	
			100	1,509	3,043
$ 3,379	$ 7,762	$ -	$ 5,296	$ 14,978	$ 18,343

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Quail Run / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,093	248	845	845
February		768	113	655	655
March		713	70	643	643
April		772	95	677	677
May		787	18	769	769
June		774	68	706	706
July		1,422	819	603	603
August		911	81	830	830
September		811	8	803	803
October		730	9	721	721
November		799	148	651	651
December		867	183	684	684
Total for Year	-	10,447	1,860	8,587	8,587

If water is purchased for resale, indicate the following:

Vendor _____

Point of delivery _____

If water is sold to other water utilities for redistribution, list names of such utilities below:

_____

_____

_____

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,216,000 *	28,622	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 518400

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Quail Run / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	88	88
3/4"	Displacement	1.5		
1"	Displacement	2.5	16	40
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		128

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 67

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Quail Run / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 128
2. Maximum number of ERCs * which can be served. 138
3. Present system connection capacity (in ERCs *) using existing lines. 1481
4. Future connection capacity (in ERCs *) upon service area buildout. 1481
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424046
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		894	206	688	688
February		1,480	867	613	613
March		925	296	629	629
April		920	320	600	600
May		1,005	322	683	683
June		990	268	722	722
July		954	488	466	466
August		1,080	201	879	879
September		756	134	622	622
October		895	176	719	719
November		818	245	573	573
December		974	446	528	528
Total for Year	-	11,691	3,969	7,722	7,722

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,000,000	32,030	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ponderosa Pines / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 517,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Ponderosa Pines / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	185	185
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		185

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 60

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 185
2. Maximum number of ERCs * which can be served. 185
3. Present system connection capacity (in ERCs *) using existing lines. 185
4. Future connection capacity (in ERCs *) upon service area buildout. 185
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WATER
OPERATION
SECTION
GROUP 4

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 3,127,027
	Less:		
	Nonused and Useful Plant (1)		56,983
108	Accumulated Depreciation	W-6(b)	2,488,074
110	Accumulated Amortization		
271	Contributions in Aid of Construction	W-7	1,936,420
252	Advances for Construction	F-20	-
	Subtotal		$ (1,354,450)
	Add:		
272	Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 1,472,464
	Subtotal		$ 118,014
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	39,523
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(14,579)
	Working Capital Allowance (3)		115,127
	Other (Specify):		
105	Construction in Process		67
	WATER RATE BASE		$ 258,152
	WATER OPERATING INCOME	W-3	$ (49,514)
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		-19.18%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 1,002,085
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 1,002,085
401	Operating Expenses	W-10(a)	$ 921,019
403	Depreciation Expense	W-6(a)	87,163
	Less: Amortization of CIAC	W-8(a)	48,557
	Net Depreciation Expense		$ 38,606
406	Amortization of Utility Plant Acquisition Adjustment	F-7	1,722
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		45,134
408.11	Property Taxes		17,171
408.12	Payroll Taxes		27,947
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 90,252
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 1,051,599
	Utility Operating Income		$ (49,514)
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ (49,514)

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ 1,660	$ 0	0	$ 1,660
302	Franchises	0	0	0	0
303	Land and Land Rights	70,777	0 *	0	70,777
304	Structures and Improvements	6,227	0	0	6,227
305	Collecting and Impounding Reservoirs	0	0	0	0
306	Lake, River and Other Intakes	0	0	0	0
307	Wells and Springs	75,016	0	0	75,016
308	Infiltration Galleries and Tunnels	0	0	0	0
309	Supply Mains	107,157	0	0	107,157
310	Power Generation Equipment	87,782	174	0	87,956
311	Pumping Equipment	512,832	11,250	-6,229	517,853
320	Water Treatment Equipment	207,701	5,015	-1,766	210,950
330	Distribution Reservoirs and Standpipes	45,306	30,926	0	76,232
331	Transmission and Distribution Mains	1,074,742	0	0	1,074,742
333	Services	150,386	2,631	0	153,017
334	Meters and Meter Installations	207,954	5,760	-2,827	210,887
335	Hydrants	0	0	0	0
336	Backflow Prevention Devices	0	0	0	0
339	Other Plant Miscellaneous Equipment	25,858	0	0	25,858
340	Office Furniture and Equipment	85,222	0	0	85,222
341	Transportation Equipment	115,148	0	0	115,148
342	Stores Equipment	4,425	0	0	4,425
343	Tools, Shop and Garage Equipment	33,556	1,403	0	34,959
344	Laboratory Equipment	0	0	0	0
345	Power Operated Equipment	5,200	0	0	5,200
346	Communication Equipment	10,912	0	0	10,912
347	Miscellaneous Equipment	17,436	0	0	17,436
349	Abandonment of Regional Plant	235,393	0	0	235,393
	TOTAL WATER PLANT	$ 3,080,690	$ 57,159	$ -10,822	$ 3,127,027

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.
* auditor adjustment

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ 1,660	$ 1,660	$	$	$	$
302	Franchises	0	0				
303	Land and Land Rights	70,777		70,777	0	0	0
304	Structures and Improvements	6,227		6,227	0	0	0
305	Collecting and Impounding Reservoirs	0		0			
306	Lake, River and Other Intakes	0		0			
307	Wells and Springs	75,016		75,016			
308	Infiltration Galleries and Tunnels	0		0			
309	Supply Mains	107,157		107,157			
310	Power Generation Equipment	87,956		87,956			
311	Pumping Equipment	517,853		517,853	0	0	
320	Water Treatment Equipment	210,950			210,950		
330	Distribution Reservoirs and Standpipes	76,232				76,232	
331	Transmission and Distribution Mains	1,074,742				1,074,742	
333	Services	153,017				153,017	
334	Meters and Meter Installations	210,887				210,887	
335	Hydrants	0				0	
336	Backflow Prevention Devices	0				0	
339	Other Plant Miscellaneous Equipment	25,858	25,858			0	
340	Office Furniture and Equipment	85,222					85,222
341	Transportation Equipment	115,148					115,148
342	Stores Equipment	4,425					4,425
343	Tools, Shop and Garage Equipment	34,959					34,959
344	Laboratory Equipment	0					0
345	Power Operated Equipment	5,200					5,200
346	Communication Equipment	10,912					10,912
347	Miscellaneous Equipment	17,436					17,436
349	Abandonment of Regional Plant	235,393					235,393
	TOTAL WATER PLANT	$ 3,127,027	$ 27,518	$ 864,986	$ 210,950	$ 1,514,878	$ 508,695

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ 1,380	$ 42	0	$ 42
304	Structures and Improvements	2,952	189	0	189
305	Collecting and Impounding Reservoirs	0	0	0	0
306	Lake, River and Other Intakes	0	0	0	0
307	Wells and Springs	75,015	0	0	0
308	Infiltration Galleries and Tunnels	0	0	0	0
309	Supply Mains	37,059	3,062	0	3,062
310	Power Generation Equipment	61,773	5,857	0	5,857
311	Pumping Equipment	429,693	25,554	0	25,554
320	Water Treatment Equipment	199,622	513	0	513
330	Distribution Reservoirs and Standpipes	23,322	3,407	0	3,407
331	Transmission and Distribution Mains	915,013	24,994	0	24,994
333	Services	45,073	3,532	0	3,532
334	Meters and Meter Installations	153,397	10,416	0	10,416
335	Hydrants	0	0	0	0
336	Backflow Prevention Devices	0	0	0	0
339	Other Plant Miscellaneous Equipment	25,858	0	0	0
340	Office Furniture and Equipment	38,884	5,682	0	5,682
341	Transportation Equipment	106,472	1,553	0	1,553
342	Stores Equipment	2,802	221	0	221
343	Tools, Shop and Garage Equipment	24,480	2,141	0	2,141
344	Laboratory Equipment	0	0	0	0
345	Power Operated Equipment	5,200	0	0	0
346	Communication Equipment	10,911	0	0	0
347	Miscellaneous Equipment	17,436	0	0	0
349	Abandonment of Regional Plant	235,393	0	0	0
TOTAL WATER ACCUMULATED DEPRECIATION		$ 2,411,735	$ 87,163	$ 0	$ 87,163

* Specify nature of transaction
Use ( ) to denote reversal entries.

Entered on wrong line in 2007

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$ 0	0	0	$ 0	$ 1,422
304	Structures and Improvements	0	0	0	0	3,141
305	Collecting and Impounding Reservoirs	0	0	0	0	0
306	Lake, River and Other Intakes	0	0	0	0	0
307	Wells and Springs	0	0	0	0	75,015
308	Infiltration Galleries and Tunnels	0	0	0	0	0
309	Supply Mains	0	0	0	0	40,121
310	Power Generation Equipment	0	0	0	0	67,630
311	Pumping Equipment	6,231	0	0	6,231	449,016
320	Water Treatment Equipment	1,766	0	0	1,766	198,369
330	Distribution Reservoirs and Standpipes	0	0	0	0	26,729
331	Transmission and Distribution Mains	0	0	0	0	940,007
333	Services	0	0	0	0	48,605
334	Meters and Meter Installations	2,827	0	0	2,827	160,986
335	Hydrants	0	0	0	0	0
336	Backflow Prevention Devices	0	0	0	0	0
339	Other Plant Miscellaneous Equipment	0	0	0	0	25,858
340	Office Furniture and Equipment	0	0	0	0	44,566
341	Transportation Equipment	0	0	0	0	108,025
342	Stores Equipment	0	0	0	0	3,023
343	Tools, Shop and Garage Equipment	0	0	0	0	26,621
344	Laboratory Equipment	0	0	0	0	0
345	Power Operated Equipment	0	0	0	0	5,200
346	Communication Equipment	0	0	0	0	10,911
347	Miscellaneous Equipment	0	0	0	0	17,436
349	Abandonment of Regional Plant	0	0	0	0	235,393
TOTAL WATER ACCUMULATED DEPRECIATION		$ 10,824	$ 0	$ 0	$ 10,824	$ 2,488,074

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 1,915,295
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 21,125
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	0
Total Credits		$ 21,125
Less debits charged during the year (All debits charged during the year must be explained below)		$ 0
Total Contributions In Aid of Construction		$ 1,936,420

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	23	$ 865	$ 19,895
Other Side Tap 3/4" meter	1	1,230	1,230
0	-	-	-
0	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-			
Total Credits			$ 21,125

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 1,423,907
Debits during the year:	
Accruals charged to Account 272	$ 48,557
Other debits (specify) :	
Auditor Adjustment	0
Total debits	$ 48,557
Credits during the year (specify) :	$ 0
Total credits	$ -
Balance end of year	$ 1,472,464

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
N/A		$ 0
Total Credits		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue	-	-	$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	3,026	3,559	934,179
461.2	Sales to Commercial Customers			
461.3	Sales to Industrial Customers			
461.4	Sales to Public Authorities			
461.5	Sales Multiple Family Dwellings			
	Total Metered Sales	3,026	3,559	$ 934,179
	Fire Protection Revenue:			
462.1	Public Fire Protection			
462.2	Private Fire Protection			
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities			
465	Sales To Irrigation Customers			
466	Sales For Resale			
467	Interdepartmental Sales			
	Total Water Sales	3,026	3,559	$ 934,179
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$
470	Forfeited Discounts			
471	Miscellaneous Service Revenues			67,906
472	Rents From Water Property			
473	Interdepartmental Rents			
474	Other Water Revenues			
	Total Other Water Revenues			$ 67,906
	Total Water Operating Revenues			$ 1,002,085

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 151,393	$ -	19,852
603	Salaries and Wages - Officers, Directors and Majority Stockholders	202,133	-	13,959
604	Employee Pensions and Benefits	65,403	-	6,240
610	Purchased Water	-		
615	Purchased Power	59,566	57,088	-
616	Fuel for Power Production	526	526	-
618	Chemicals	28,014	-	-
620	Materials and Supplies	43,204	-	9,442
631	Contractual Services-Engineering	450	450	-
632	Contractual Services - Accounting	20,450	-	-
633	Contractual Services - Legal	-	-	-
634	Contractual Services - Mgt. Fees	-	-	-
635	Contractual Services - Testing	26,638	-	-
636	Contractual Services - Other	59,760	-	13,572
641	Rental of Building/Real Property	111,800	102,777	-
642	Rental of Equipment	2,046	-	757
650	Transportation Expenses	50,826	-	-
656	Insurance - Vehicle	8,246	-	-
657	Insurance - General Liability	-	-	-
658	Insurance - Workman's Comp.	11,060	-	-
659	Insurance - Other	-	-	-
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-	-	-
668	Water Resource Conservation Exp.	-	-	-
670	Bad Debt Expense	8,389		
675	Miscellaneous Expenses	$ 71,115	9,600	100
	Total Water Utility Expenses	$ 921,019	$ 170,441	$ 63,922

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	1,211	-	66,168	47,470	16,692
-	187	-	20,331	62,579	105,077
-	251	-	16,057	20,359	22,496
-	-	-	-	-	2,478
-	-	-	-	-	-
28,014	-	-	-	-	-
-	205	-	33,557	-	-
-	-	-	-	-	-
-	-	-	-	-	20,450
-	-	-	-	-	-
-	-	-	-	-	-
26,638	-	-	-	-	-
-	38,508	-	7,680	-	-
-	-	-	-	-	9,023
-	-	-	1,289	-	-
-	-	-	-	50,826	-
-	-	-	-	8,246	-
-	-	-	-	-	-
-	-	-	-	-	11,060
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	8,389	
-	-	-	1,698	19,420	40,297
$ 54,652	$ 40,362	$ -	$ 146,780	$ 217,289	$ 227,573

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		232	2	230	230
February		208	4	204	204
March		229	16	213	213
April		268	27	241	241
May		307	11	296	296
June		229	18	211	211
July		213	14	199	199
August		222	74	148	148
September		296	3	293	293
October		219	6	213	213
November		218	7	211	211
December		205	1	204	204
Total for Year	-	2,846	183	2,663	2,663

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	22,630,000 *	7,797	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 62000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential				
5/8"	Displacement	1.0	47	47
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
			Total Water System Meter Equivalents	47

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 155

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 47
2. Maximum number of ERCs * which can be served. 47
3. Present system connection capacity (in ERCs *) using existing lines. 47
4. Future connection capacity (in ERCs *) upon service area buildout. 47
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		462	1	461	461
February		476	79	397	397
March		521	89	432	432
April		479	2	477	477
May		575	115	460	460
June		460	3	457	457
July		541	203	338	338
August		640	55	585	585
September		605	169	436	436
October		700	216	484	484
November		693	271	422	422
December		426	13	413	413
Total for Year	-	6,578	1,216	5,362	5,362

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,700,000 *	18,022	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Belleview Oaks / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	85	85
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		93

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 79

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 93
2. Maximum number of ERCs * which can be served. 99
3. Present system connection capacity (in ERCs *) using existing lines. 99
4. Future connection capacity (in ERCs *) upon service area buildout. 99
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424621
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? YES
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		154	46	108	108
February		140	51	89	89
March		84	3	81	81
April		85	8	77	77
May		128	35	93	93
June		90	8	82	82
July		89	7	82	82
August		105	6	99	99
September		116	14	102	102
October		105	7	98	98
November		82	14	68	68
December		101	19	82	82
Total for Year	-	1,279	218	1,061	1,061

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,935,000 *	3,504	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Burks;Ocala Garden / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 19,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	23	23
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement, Compound or Turbine	5.0	2	10
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		33

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 116

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 33
2. Maximum number of ERCs * which can be served. 38
3. Present system connection capacity (in ERCs *) using existing lines. 38
4. Future connection capacity (in ERCs *) upon service area buildout. 38
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421554
12. Water Management District Consumptive Use Permit # N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Country Walk / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		453	43	410	410
February		452	125	327	327
March		471	70	401	401
April		504	121	383	383
May		556	23	533	533
June		559	200	359	359
July		444	61	383	383
August		487	28	459	459
September		584	138	446	446
October		484	6	478	478
November		481	112	369	369
December		465	144	321	321
Total for Year	-	5,940	1,071	4,869	4,869

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,090,000 *	16,274	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Country Walk / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 66,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Country Walk / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	67	67
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		67

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 199

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Country Walk / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 67
2. Maximum number of ERCs * which can be served. 75
3. Present system connection capacity (in ERCs *) using existing lines. 75
4. Future connection capacity (in ERCs *) upon service area buildout. 75
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424657
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		286	111	175	175
February		267	100	167	167
March		283	128	155	155
April		286	109	177	177
May		270	97	173	173
June		258	106	152	152
July		425	250	175	175
August		250	128	122	122
September		255	53	202	202
October		272	105	167	167
November		304	159	145	145
December		281	124	157	157
Total for Year	-	3,437	1,470	1,967	1,967

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	14,235,000 *	9,416	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Eleven Oaks / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 39,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Eleven Oaks / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	40	40
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		40

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 135

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 40
2. Maximum number of ERCs * which can be served. 43
3. Present system connection capacity (in ERCs *) using existing lines. 43
4. Future connection capacity (in ERCs *) upon service area buildout. 43
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424099
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		4,746	1,070	3,676	3,676
February		4,770	1,519	3,251	3,251
March		4,625	1,870	2,755	2,755
April		5,093	1,084	4,009	4,009
May		5,186	1,607	3,579	3,579
June		4,752	833	3,919	3,919
July		4,742	1,648	3,094	3,094
August		4,948	2,330	2,618	2,618
September		6,229	1,025	5,204	5,204
October		5,004	1,435	3,569	3,569
November		4,618	671	3,947	3,947
December		4,627	1,417	3,210	3,210
Total for Year	-	59,340	16,509	42,831	42,831

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	83,600,000	162,575	Ground Water
Well			

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 229041

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	667	667
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		675

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 174

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 675
2. Maximum number of ERCs * which can be served. 703
3. Present system connection capacity (in ERCs *) using existing lines. 703
4. Future connection capacity (in ERCs *) upon service area buildout. 703
5. Estimated annual increase in ERCs *. 3
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420340 & 3421314
12. Water Management District Consumptive Use Permit 3130
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Florida Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		613	73	540	540
February		654	188	466	466
March		854	365	489	489
April		872	306	566	566
May		1,300	672	628	628
June		2,266	1,761	505	505
July		661	290	371	371
August		673	60	613	613
September		890	437	453	453
October		535	51	484	484
November		574	81	493	493
December		489	87	402	402
Total for Year	-	10,381	4,371	6,010	6,010

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	11,000,000 *	28,441	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Florida Heights / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 30,137

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.):

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Florida Heights / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	106	106
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		106

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 155

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Florida Heights / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 106
2. Maximum number of ERCs * which can be served. 113
3. Present system connection capacity (in ERCs *) using existing lines. 113
4. Future connection capacity (in ERCs *) upon service area buildout. 113
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424031
12. Water Management District Consumptive Use Permit 3131
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,238	867	371	371
February		1,579	1,178	401	401
March		807	439	368	368
April		526	128	398	398
May		560	94	466	466
June		499	56	443	443
July		519	145	374	374
August		593	220	373	373
September		567	5	562	562
October		477	86	391	391
November		551	102	449	449
December		508	134	374	374
Total for Year	-	8,424	3,454	4,970	4,970

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,820,000	23,079	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Floyd Clark;Hodges;Northwoods / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 68,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	77	77
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		77

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 177

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 77
2. Maximum number of ERCs * which can be served. 77
3. Present system connection capacity (in ERCs *) using existing lines. 77
4. Future connection capacity (in ERCs *) upon service area buildout. 77
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420411
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,494	103	1,391	1,391
February		1,975	894	1,081	1,081
March		1,292	114	1,178	1,178
April		1,399	42	1,357	1,357
May		1,549	228	1,321	1,321
June		1,369	66	1,303	1,303
July		1,221	99	1,122	1,122
August		1,398	534	864	864
September		1,913	48	1,865	1,865
October		1,331	127	1,204	1,204
November		1,546	357	1,189	1,189
December		1,227	6	1,221	1,221
Total for Year	-	17,714	2,618	15,096	15,096

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	19,000,000 *	48,532	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Fore Oakes;Coventry;Ballard Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 52,055

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	231	231
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		231

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 179

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 231
2. Maximum number of ERCs * which can be served. 247
3. Present system connection capacity (in ERCs *) using existing lines. 247
4. Future connection capacity (in ERCs *) upon service area buildout. 247
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424644
12. Water Management District Consumptive Use Permit 3013
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Hilltop / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,264	266	998	998
February		1,134	102	1,032	1,032
March		1,198	144	1,054	1,054
April		1,520	237	1,283	1,283
May		1,517	253	1,264	1,264
June		1,110	71	1,039	1,039
July		1,410	291	1,119	1,119
August		1,803	86	1,717	1,717
September		1,327	263	1,064	1,064
October		1,361	25	1,336	1,336
November		1,110	29	1,081	1,081
December		1,294	198	1,096	1,096
Total for Year	-	16,048	1,965	14,083	14,083

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,800,000	43,967	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Hilltop / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 18,630

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Hilltop / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	206	206
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
			Total Water System Meter Equivalents	214

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 180

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Hilltop / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 214
2. Maximum number of ERCs * which can be served. 282
3. Present system connection capacity (in ERCs *) using existing lines. 282
4. Future connection capacity (in ERCs *) upon service area buildout. 282
5. Estimated annual increase in ERCs *. 5
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424662
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,506	718	1,788	1,788
February		2,703	1,183	1,520	1,520
March		2,476	1,006	1,470	1,470
April		2,480	945	1,535	1,535
May		2,924	1,238	1,686	1,686
June		2,071	579	1,492	1,492
July		2,207	886	1,321	1,321
August		2,380	500	1,880	1,880
September		2,293	733	1,560	1,560
October		2,183	363	1,820	1,820
November		1,927	339	1,588	1,588
December		1,734	515	1,219	1,219
Total for Year	-	27,884	9,005	18,879	18,879

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	30,842,500	76,395	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Little Lake Weir / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 84,500

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Little Lake Weir / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	416	416
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
			Total Water System Meter Equivalents	419

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 124

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 419
2. Maximum number of ERCs * which can be served. 731
3. Present system connection capacity (in ERCs *) using existing lines. 731
4. Future connection capacity (in ERCs *) upon service area buildout. 731
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420761
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Oak Haven / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		853	292	561	561
February		982	545	437	437
March		954	411	543	543
April		1,076	472	604	604
May		1,129	505	624	624
June		1,109	521	588	588
July		1,738	1,086	652	652
August		929	391	538	538
September		1,752	786	966	966
October		951	50	901	901
November		1,061	155	906	906
December		1,142	150	992	992
Total for Year	-	13,676	5,364	8,312	8,312

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	18,000,000	37,468	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Oak Haven / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 49,315

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Oak Haven / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	46	46
3/4"	Displacement	1.5		
1"	Displacement	2.5	6	15
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	6	30
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0	1	15
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	2	60
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		166

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 137

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oak Haven / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 166
2. Maximum number of ERCs * which can be served. 192
3. Present system connection capacity (in ERCs *) using existing lines. 192
4. Future connection capacity (in ERCs *) upon service area buildout. 192
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424106
12. Water Management District Consumptive Use Permit 3080
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Oakhurst / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,237	732	505	505
February		1,053	574	479	479
March		681	133	548	548
April		1,015	362	653	653
May		784	174	610	610
June		596	5	591	591
July		751	198	553	553
August		659	238	421	421
September		826	14	812	812
October		815	27	788	788
November		715	55	660	660
December		781	86	695	695
Total for Year	-	9,913	2,598	7,315	7,315

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

* The master meter is failing to read low flows thus making the water pumped understated.
The company is is currently looking into replacing the master meter with a special meter to read low flows

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	13,000,000	27,159	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Oakhurst / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 35,616

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Oakhurst / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	112	112
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		112

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 179

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oakhurst / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 112
2. Maximum number of ERCs * which can be served. 112
3. Present system connection capacity (in ERCs *) using existing lines. 112
4. Future connection capacity (in ERCs *) upon service area buildout. 112
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424032
12. Water Management District Consumptive Use Permit 3132
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,152	504	1,648	1,648
February		1,767	390	1,377	1,377
March		1,655	159	1,496	1,496
April		1,772	177	1,595	1,595
May		1,825	113	1,712	1,712
June		1,709	306	1,403	1,403
July		1,658	357	1,301	1,301
August		1,967	394	1,573	1,573
September		2,009	449	1,560	1,560
October		1,836	455	1,381	1,381
November		1,604	218	1,386	1,386
December		1,842	546	1,296	1,296
Total for Year	-	21,796	4,068	17,728	17,728

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	39,600,000	59,715	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 108,493

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	354	354
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		354

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 137

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 354
2. Maximum number of ERCs * which can be served. 559
3. Present system connection capacity (in ERCs *) using existing lines. 559
4. Future connection capacity (in ERCs *) upon service area buildout. 559
5. Estimated annual increase in ERCs *. 15
6. Is the utility required to have fire flow capacity? yes
   If so, how much capacity is required? 500 gmp for two hours
7. Attach a description of the fire fighting facilities. Hydrants
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424651
12. Water Management District Consumptive Use Permit 3019
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,901	462	2,439	2,439
February		3,788	1,666	2,122	2,122
March		2,978	575	2,403	2,403
April		2,990	830	2,160	2,160
May		2,719	619	2,100	2,100
June		2,839	538	2,301	2,301
July		2,999	1,234	1,765	1,765
August		3,224	346	2,878	2,878
September		3,108	783	2,325	2,325
October		3,072	839	2,233	2,233
November		2,728	658	2,070	2,070
December		2,712	1,288	1,424	1,424
Total for Year	-	36,058	9,838	26,220	26,220

If water is purchased for resale, indicate the following:

Vendor: Marion Utilities, Inc

Point of delivery: Ocklawaha Terrace

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	60,955,000	98,789	Ground Water

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ocklawaha;Sanctuary / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 167,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Ocklawaha;Sanctuary / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	344	344
3/4"	Displacement	1.5		
1"	Displacement	2.5	4	10
1 1/4"	Displacement, Compound or Turbine	3.8	2	8
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0	3	24
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		391

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 184

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 391
2. Maximum number of ERCs * which can be served. 582
3. Present system connection capacity (in ERCs *) using existing lines. 582
4. Future connection capacity (in ERCs *) upon service area buildout. 582
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420939
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		521	85	436	436
February		453	134	319	319
March		448	136	312	312
April		451	146	305	305
May		589	177	412	412
June		513	148	365	365
July		410	106	304	304
August		429	42	387	387
September		445	73	372	372
October		419	73	346	346
November		449	136	313	313
December		438	112	326	326
Total for Year	-	5,565	1,368	4,197	4,197

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,500,000 *	15,247	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 17,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	69	69
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		69

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 167

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sunlight Acres / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 69
2. Maximum number of ERCs * which can be served. 72
3. Present system connection capacity (in ERCs *) using existing lines. 72
4. Future connection capacity (in ERCs *) upon service area buildout. 72
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421520
12. Water Management District Consumptive Use Permit 2996
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		139	7	132	132
February		136	4	132	132
March		84	0	84	84
April		109	8	101	101
May		91	2	89	89
June		99	2	97	97
July		127	16	111	111
August		160	52	108	108
September		255	52	203	203
October		119	13	106	106
November		131	6	125	125
December		161	18	143	143
Total for Year	-	1,611	180	1,431	1,431

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,665,000	4,414	Ground Water

* Annual

UTILITY NAME:	**Sunshine Utilities of Central Florida, Inc.**	**YEAR OF REPORT** December 31, 2018
SYSTEM NAME / COUNTY :	**Sun Resorts / Marion County**	

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sun Resorts / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	32	32
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		32

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 123

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 32
2. Maximum number of ERCs * which can be served. 32
3. Present system connection capacity (in ERCs *) using existing lines. 32
4. Future connection capacity (in ERCs *) upon service area buildout. 32
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421201
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,458	22	1,436	1,436
February		1,457	153	1,304	1,304
March		1,871	724	1,147	1,147
April		1,354	42	1,312	1,312
May		1,197	7	1,190	1,190
June		1,251	33	1,218	1,218
July		1,112	38	1,074	1,074
August		1,493	13	1,480	1,480
September		1,153	82	1,071	1,071
October		1,172	6	1,166	1,166
November		1,209	24	1,185	1,185
December		1,181	125	1,056	1,056
Total for Year	-	15,908	1,269	14,639	14,639

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	15,000,000	43,584	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Whispering Sands / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 41,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Whispering Sands / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	72	72
3/4"	Displacement	1.5		
1"	Displacement	2.5	19	48
1 1/4"	Displacement, Compound or Turbine	3.8	35	133
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		258

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 156

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 258
2. Maximum number of ERCs * which can be served. 861
3. Present system connection capacity (in ERCs *) using existing lines. 861
4. Future connection capacity (in ERCs *) upon service area buildout. 861
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424009
12. Water Management District Consumptive Use Permit 6850
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,724	387	1,337	1,337
February		1,603	289	1,314	1,314
March		1,393	129	1,264	1,264
April		1,340	197	1,143	1,143
May		1,574	410	1,164	1,164
June		1,583	329	1,254	1,254
July		1,767	791	976	976
August		1,803	89	1,714	1,714
September		2,281	1,119	1,162	1,162
October		2,353	1,015	1,338	1,338
November		1,839	611	1,228	1,228
December		1,802	638	1,164	1,164
Total for Year	-	21,062	6,004	15,058	15,058

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	56,200,000 *	57,704	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 153,973

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	222	222
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/14"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	1	30
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		260

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 159

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 260
2. Maximum number of ERCs * which can be served. 763
3. Present system connection capacity (in ERCs *) using existing lines. 646
4. Future connection capacity (in ERCs *) upon service area buildout. 646
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424691
12. Water Management District Consumptive Use Permit # 3093
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,677	389	1,288	1,288
February		1,929	582	1,347	1,347
March		1,896	867	1,029	1,029
April		2,267	828	1,439	1,439
May		2,862	1,243	1,619	1,619
June		2,251	538	1,713	1,713
July		2,095	684	1,411	1,411
August		2,010	918	1,092	1,092
September		1,982	54	1,928	1,928
October		2,227	783	1,444	1,444
November		2,364	594	1,770	1,770
December		2,243	813	1,430	1,430
Total for Year	-	25,803	8,293	17,510	17,510

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	120,888,000	50,970	Ground Water
Well	46,778,400	19,723	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 459,360

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	253	253
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		253

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 190

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 253
2. Maximum number of ERCs * which can be served. 267
3. Present system connection capacity (in ERCs *) using existing lines. 267
4. Future connection capacity (in ERCs *) upon service area buildout. 267
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421118
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WASTEWATER OPERATION SECTION

THE COMPANY DOES NOT PROVIDE WASTEWATER SERVICES

Reconciliation of Revenue to Regulatory Assessment Fee Revenue

Water Operations

Class A & B

Company:

For the Year Ended December 31, 2018

(a) Accounts	(b) Gross Water Revenues Per Sch. W-9	(c) Gross Water Revenues Per RAF Return	(d) Difference (b) - (c)
Gross Revenue:			
Unmetered Water Revenues (460)	$	$	$
Total Metered Sales (461.1 - 461.5)	1,009,498.30	1,009,498.30	
Total Fire Protection Revenue (462.1 - 462.2)			
Other Sales to Public Authorities (464)			
Sales to Irrigation Customers (465)			
Sales for Resale (466)			
Interdepartmental Sales (467)			
Total Other Water Revenues (469 - 474)	75,108.71	75,108.71	
Total Water Operating Revenue	$ 1,084,607.01	$ 1,084,607.01	$
LESS: Expense for Purchased Water from FPSC-Regulated Utility			
Net Water Operating Revenues	$ 1,084,607.01	$ 1,084,607.01	$

Explanations:

Instructions:

For the current year, reconcile the gross water revenues reported on Schedule W-9 with the gross water revenues reported on the company's regulatory assessment fee return. Explain any differences reported in column (d).

CLASS "A" OR "B"

WATER AND/OR WASTEWATER UTILITIES
(Gross Revenue of More Than $200,000 Each)

ANNUAL REPORT

OF

WU239-19-AR

Sunshine Utilities of Central Florida, Inc.
Exact Legal Name of Respondent

363-W
Certificate Number(s)

Submitted To The

STATE OF FLORIDA

PUBLIC SERVICE COMMISSION

FOR THE

YEAR ENDED December 31, 2019

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GENERAL INSTRUCTIONS

1. Prepare this report in conformity with the 1996 National Association of Regulatory Utility Commissioners Uniform System of Accounts for Water and/or Wastewater Utilities (USOA).

2. Interpret all accounting words and phrases in accordance with the USOA.

3. Complete each question fully and accurately, even if it has been answered in a previous annual report. Enter the word "None" where it truly and completely states the fact.

4. For any question, section, or page which is not applicable to the respondent, enter the words "Not Applicable". Do not omit any pages.

5. Where dates are called for, the month and day should be stated as well as the year.

6. All schedules requiring dollar entries should be rounded to the nearest dollar unless otherwise specifically indicated.

7. Complete this report by means which result in a permanent record, such as by computer or typewriter.

8. If there is not enough room on any schedule, an additional page or pages may be added; provided the format of the added schedule matches the format of the schedule with not enough room. Such a schedule should reference the appropriate schedules, state the name of the utility, and state the year of the report.

9. If it is necessary or desirable to insert additional statements for the purpose of further explanation of schedules, such statement should be made at the bottom of the page or an additional page inserted. Any additional pages should state the name of the utility, the year of the report, and reference the appropriate schedule.

10. For water and wastewater utilities with more than one rate group and/or system, water and wastewater pages should be completed for each rate group and/or system group. These pages should be grouped together and tabbed by rate group and/or system.

11. All other water and wastewater operations not regulated by the Commission and other regulated industries should be reported as "Other than Reporting Systems".

12. Financial information for multiple systems charging rates which are covered under the same tariff should be reported as one system. However, the engineering data must be reported by individual system.

13. For water and wastewater utilities with more than one system, one (1) copy of workpapers showing the consolidation of systems for the operating sections, should be filed with the annual report.

14. The report should be filled out in quadruplicate and the original and two copies returned by March 31, of the year following the date of the report. The report should be returned to:

Florida Public Service Commission
Division of Economic Regulation
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

The fourth copy should be retained by the utility.

TABLE OF CONTENTS

TABLE OF CONTENTS

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EXECUTIVE SUMMARY

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UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

CERTIFICATION OF ANNUAL REPORT

I HEREBY CERTIFY, to the best of my knowledge and belief:

YES	NO		
X		1.	The utility is in substantial compliance with the Uniform System of Accounts prescribed by the Florida Public Service Commission.
X		2.	The utility is in substantial compliance with all applicable rules and orders of the Florida Public Service Commission.
X		3.	There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices that could have a material effect on the the financial statement of the utility.
X		4.	The annual report fairly represents the financial condition and results of operations of the respondent for the period presented and other information and statements presented in the the report as to the business affairs of the respondent are true, correct and complete for the period for which it represents.

Items Certified

1.	2.	3.	4.
X	X	X	X

(Signature of Chief Executive Officer of the utility) *

1.	2.	3.	4.

(Signature of Chief Financial Officer of the utility) *

* Each of the four items must be certified YES or NO. Each item need not be certified by both officers. The items being certified by the officer should be indicated in the appropriate area to the left of the signature.

NOTICE: Section 837.06, Florida Statutes, provides that any person who knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his duty shall be guilty of a misdemeanor of the second degree.

ANNUAL REPORT OF

YEAR OF REPORT
December 31, 2019

Sunshine Utilities of Central Florida, Inc. County: Marion

(Exact Name of Utility)

List below the exact mailing address of the utility for which normal correspondence should be sent:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228
E Mail Address:
WEB Site:

Sunshine State One-Call of Florida, Inc. Member Number SU-1134

Name and address of person to whom correspondence concerning this report should be addressed:
John Q. Adams II, CPA
Adams & Company, P.A.
2637 E Atlantic Blvd #43374
Pompano Beach, FL 33062
Telephone: (352) 804-2291

List below the address of where the utility's books and records are located:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228

List below any groups auditing or reviewing the records and operations:

Date of original organization of the utility: September 01, 1974

Check the appropriate business entity of the utility as filed with the Internal Revenue Service

Individual	Partnership	Sub S Corporation	1120 Corporation
		X	

List below every corporation or person owning or holding directly or indirectly 5% or more of the voting securities of the utility:

	Name	Percent Ownership
1.	"Hodges Family Trust - Christmas" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
2.	"Hodges Family Trust - Hodges" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
3.	"Hodges Family Trust - Rosin" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
4.	"Hodges Family Trust - Stone" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
5.	Trust split into four separate trust pursuant to QSST election IRC 1361 while maintaining	
6.	control by the co-trustees for the sole beneficiary of Clarise Hodges.	
7.		
8.		
9.		
10.		

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

DIRECTORY OF PERSONNEL WHO CONTACT THE FLORIDA PUBLIC SERVICE COMMISSION

NAME OF COMPANY REPRESENTATIVE (1)	TITLE OR POSITION (2)	ORGANIZATIONAL UNIT TITLE (3)	USUAL PURPOSE FOR CONTACT WITH FPSC
Dewaine W. Christmas	President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Pamela N. Christmas	Secretary	Sunshine Utilities of Central Florida, Inc	All Utility Matters
John Q. Adams, II	CPA	Adams & Company, P.A. 352-804-2291	Rate and Accounting Matters
James H Hodges, Jr.	Vice President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Jane M. Rop	Treasurer	Sunshine Utilities of Central Florida, Inc	All Utility Matters

(1) Also list appropriate legal counsel, accountants and others who may not be on general payroll.
(2) Provide individual telephone numbers if the person is not normally reached at the company.
(3) Name of company employed by if not on general payroll.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

COMPANY PROFILE

Provide a brief narrative company profile which covers the following areas:

A. Brief company history.
B. Public services rendered.
C. Major goals and objectives.
D. Major operating divisions and functions.
E. Current and projected growth patterns.
F. Major transactions having a material effect on operations.

A. The company was organized to provide potable water service to various subdivisions in Marion and Citrus Counties

B. The company provides water treatement and distribution services to customers in its certicated area.

C. The primary goal of the Company is to continue rendering quality service to its existing customers.

D. The Company provides water treatement and distribution services, only in Marion and Citrus Counties.

E. The Company expects to continue an average growth rate of approximately 1%.

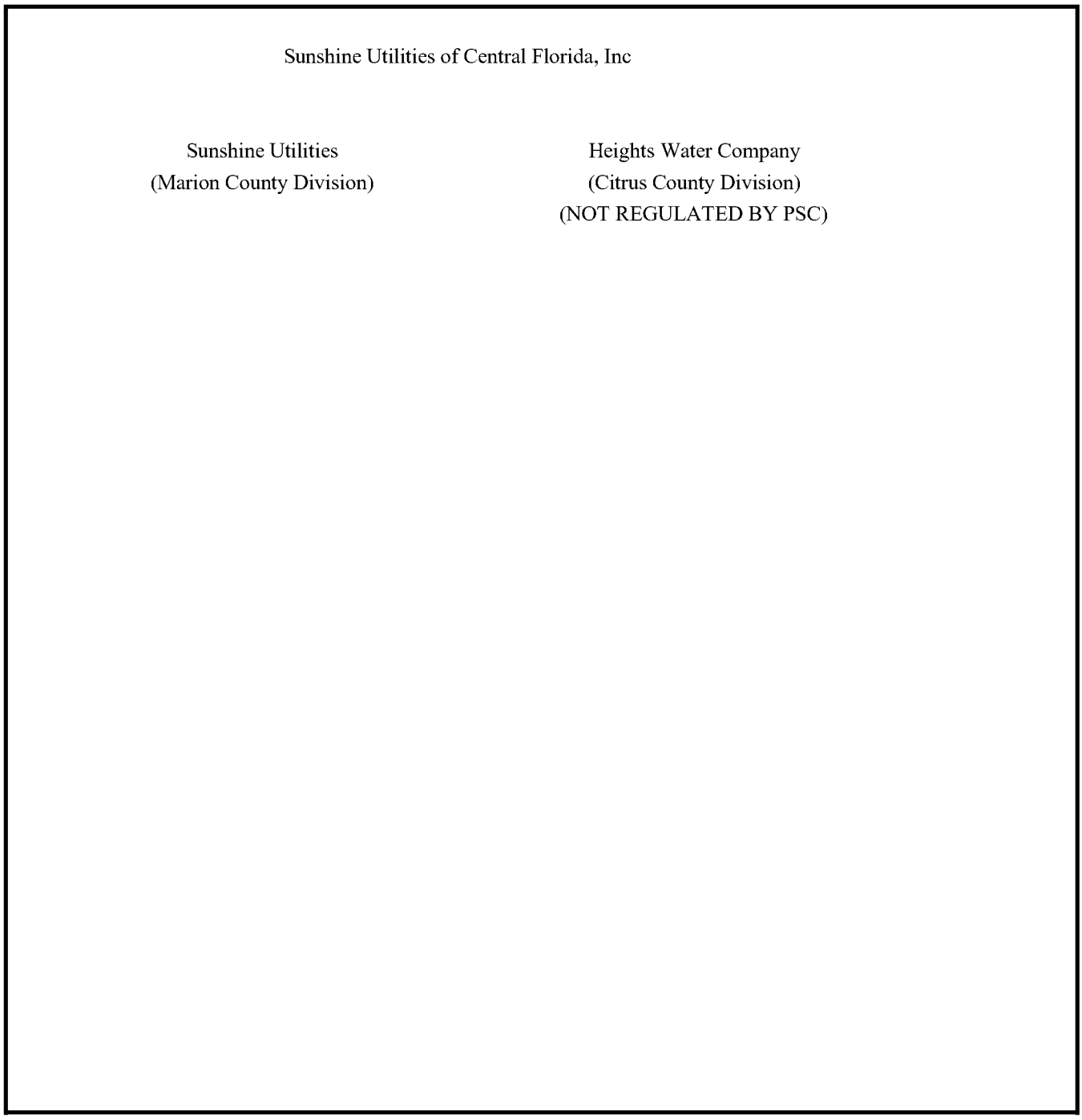
UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

PARENT / AFFILIATE ORGANIZATION CHART

Current as of December 31, 2019

Complete below an organizational chart that show all parents, subsidiaries and affiliates of the utility.
The chart must also show the relationship between the utility and affiliates listed on E-7, E-10(a) and E-10(b).



UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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COMPENSATION OF OFFICERS

For each officer, list the time spent on respondent as an officer compared to time spent on total business activities and the compensation received as an officer from the respondent.

NAME (a)	TITLE (b)	% OF TIME SPENT AS OFFICER OF THE UTILITY (c)	OFFICERS' COMPENSATION (d)
Dewaine W. Christmas	President	100%	$ 63,135
James H. Hodges, Jr.	Vice President	100%	63,129
Pamela N. Christmas	Secretary	100%	47,352
Jane M. Rop	Treasurer	100%	47,391

COMPENSATION OF DIRECTORS

For each director, list the number of director meetings attended by each director and the compensation received as a director from the respondent.

NAME (a)	TITLE (b)	NUMBER OF DIRECTORS' MEETINGS ATTENDED (c)	DIRECTORS' COMPENSATION (d)
Dewaine W. Christmas	Director	100%	$ None
James H. Hodges, Jr.	Director	100%	None

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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BUSINESS CONTRACTS WITH OFFICERS, DIRECTORS AND AFFILIATES

List all contracts, agreements, or other business arrangements* entered into during the calendar year (other than compensation related to position with Respondents) between the Respondent and officer and director listed on page E-6. In addition, provide the same information with respect to professional services for each firm, partnership, or organization with which the officer or director is affiliated.

NAME OF OFFICER, DIRECTOR OR AFFILIATE (a)	IDENTIFICATION OF SERVICE OR PRODUCT (b)	AMOUNT (c)	NAME AND ADDRESS OF AFFILIATED ENTITY (d)
None		$ -	

* Business Agreement, for this schedule, shall mean any oral or written business deal which binds the concerned parties for products or services during the reporting year or future years. Although the Respondent and/or other companies will benefit from the arrangement, the officer or director is, however, acting on his behalf or for the benefit of other companies or persons.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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AFFILIATION OF OFFICERS AND DIRECTORS

For each of the officials listed on page E-6, list the principal occupation or business affiliations or connections with any other business or financial organizations, firms, or partnerships. For purposes of this part, an official will be considered to have an affiliation with any business or financial organization, firm or partnership in which he is an officer, director, trustee, partner, or a person exercising similar functions.

NAME (a)	PRINCIPAL OCCUPATION OR BUSINESS AFFILIATION (b)	AFFILIATION OR CONNECTION (c)	NAME AND ADDRESS OF AFFILIATION OR CONNECTION (d)
None			

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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BUSINESSES WHICH ARE A BY-PRODUCT, COPRODUCT OR JOINT-PRODUCT RESULT OF PROVIDING WATER OR WASTEWATER SERVICE

Complete the following for any business which is conducted as a byproduct, coproduct, or joint product as a result of providing water and / or wastewater service. This would include any business which requires the use of utility land and facilities. Examples of these types of businesses would be orange groves, nurseries, tree farms, fertilizer manufacturing, etc. This would not include any business for which the assets are properly included in Account 121 - Nonutility Property along with the associated revenue and expenses segregated out as nonutility also.

	ASSETS		REVENUES		EXPENSES	
BUSINESS OR SERVICE CONDUCTED (a)	BOOK COST OF ASSETS (b)	ACCOUNT NUMBER (c)	REVENUES GENERATED (d)	ACCOUNT NUMBER (e)	EXPENSES INCURRED (f)	ACCOUNT NUMBER (g)
None	$		$		$	

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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BUSINESS TRANSACTIONS WITH RELATED PARTIES

List each contract, agreement, or other business transaction exceeding a cumulative amount of $500 in any on year, entered into between the Respondent and a business or financial organization, firm, or partnership named on pages E-2 and E-6, identifying the parties, amounts, dates and product, and asset, or service involved.

Part I. Specific Instructions: Services and Products Received or Provided

1. Enter in this part all transactions involving services and products received or provided.

2. Below are some types of transactions to include:
   - -management, legal and accounting services
   - -computer services
   - -engineering & construction services
   - -repairing and servicing of equipment
   - -material and supplies furnished
   - -leasing of structures, land, and equipment
   - -rental transactions
   - -sale, purchase or transfer of various products

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION SERVICE AND/OR NAME OF PRODUCT (b)	CONTRACT OR AGREEMENT EFFECTIVE DATES (c)	ANNUAL CHARGES (P)urchased (S)old (d)	ANNUAL CHARGES AMOUNT (e)
CH Utility Holdings, LLC	Lot Lease	7/10/2014		$ 102,534
CH Office Holdings, LLC	Office Lease	7/10/2014		10,104

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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BUSINESS TRANSACTIONS WITH RELATED PARTIES (Cont'd)

Part II. Specific Instructions: Sale, Purchase and Transfer of Assets

1. Enter in this part all transactions relating to the purchase, sale, or transfer of assets.

2 Below are examples of some types of transactions to include:
- -purchase, sale or transfer of equipment
- -purchase, sale or transfer of land and structures
- -purchase, sale or transfer of securities
- -noncash transfers of assets
- -noncash dividends other than stock dividends
- -write-off of bad debts or loans

3. The columnar instructions follow:

(a) Enter name of related party or company.
(b) Describe briefly the type of assets purchased, sold or transferred.
(c) Enter the total received or paid. Indicate purchase with "P" and sale with "S".
(d) Enter the net book value for each item reported.
(e) Enter the net profit or loss for each item reported. (column (c) - column (d))
(f) Enter the fair market value for each item reported. In space below or in a supplemental schedule, describe the basis used to calculate fair market value.

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION OF ITEMS (b)	SALE OR PURCHASE PRICE (c)	NET BOOK VALUE (d)	GAIN OR LOSS (e)	FAIR MARKET VALUE (f)
None		$	$	$	$

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FINANCIAL SECTION

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	UTILITY PLANT			
101-106	Utility Plant	F-7	$ 3,416,718	$ 3,452,046
108-110	Less: Accumulated Depreciation and Amortization	F-8	2,617,389	2,690,987
	Net Plant		$ 799,329	$ 761,059
114-115	Utility Plant Acquisition adjustment (Net)	F-7	18,290	17,903
116 *	Other Utility Plant Adjustments			
	Total Net Utility Plant		$ 817,619	$ 778,962
	OTHER PROPERTY AND INVESTMENTS			
121	Nonutility Property	F-9	$ 0	$ 0
122	Less: Accumulated Depreciation and Amortization		0	0
	Net Nonutility Property		$ 0	$ 0
123	Investment in Associated Companies	F-10		
124	Utility Investments	F-10		
125	Other Investments	F-10		
126-127	Special Funds	F-10		
	Total Other Property & Investments		$ 0	$ 0
	CURRENT AND ACCRUED ASSETS			
131	Cash		$ -5,711	$ 11,158
132	Special Deposits	F-9	73,245	67,257
133	Other Special Deposits	F-9		
134	Working Funds			
135	Temporary Cash Investments			
141-144	Accounts and Notes Receivable, Less Accumulated Provision for Uncollectible Accounts	F-11	35,655	29,860
145	Accounts Receivable from Associated Companies	F-12		
146	Notes Receivable from Associated Companies	F-12		
151-153	Material and Supplies			
161	Stores Expense			
162	Prepayments		1,254	596
171	Accrued Interest and Dividends Receivable			
172 *	Rents Receivable			
173 *	Accrued Utility Revenues			
174	Miscellaneous Current and Accrued Assets	F-12		
	Total Current and Accrued Assets		$ 104,443	$ 108,871

* Not Applicable for Class B Utilities

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED DEBITS			
181	Unamortized Debt Discount & Expense	F-13	$	$
182	Extraordinary Property Losses	F-13		
183	Preliminary Survey & Investigation Charges		-	-
184	Clearing Accounts		-	-
185 *	Temporary Facilities		-	-
186	Miscellaneous Deferred Debits	F-14	40,516	33,560
187 *	Research & Development Expenditures		-	-
190	Accumulated Deferred Income Taxes		-	-
	Total Deferred Debits		$ 40,516	$ 33,560
	TOTAL ASSETS AND OTHER DEBITS		$ 962,578	$ 921,393

* Not Applicable for Class B Utilities

NOTES TO THE BALANCE SHEET

The space below is provided for important notes regarding the balance sheet.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	EQUITY CAPITAL			
201	Common Stock Issued	F-15	$ 100	$ 100
204	Preferred Stock Issued	F-15	-	-
202,205 *	Capital Stock Subscribed			
203,206 *	Capital Stock Liability for Conversion			
207 *	Premium on Capital Stock			
209 *	Reduction in Par or Stated Value of Capital Stock			
210 *	Gain on Resale or Cancellation of Reacquired Capital Stock			
211	Other Paid - In Capital		474,492	474,492
212	Discount On Capital Stock			
213	Capital Stock Expense			
214-215	Retained Earnings	F-16	(341,320)	(358,771)
216	Reacquired Capital Stock			
218	Proprietary Capital (Proprietorship and Partnership Only)			
	Total Equity Capital		$ 133,272	$ 115,821
	LONG TERM DEBT			
221	Bonds	F-15		
222 *	Reacquired Bonds			
223	Advances from Associated Companies	F-17	-	-
224	Other Long Term Debt	F-17	39,789	24,789
	Total Long Term Debt		$ 39,789	$ 24,789
	CURRENT AND ACCRUED LIABILITIES			
231	Accounts Payable		92,389	99,560
232	Notes Payable	F-18	108,313	112,055
233	Accounts Payable to Associated Companies	F-18	-	-
234	Notes Payable to Associated Companies	F-18	-	-
235	Customer Deposits		64,765	66,728
236	Accrued Taxes	W/S-3	18,306	-
237	Accrued Interest	F-19	(49)	(360)
238	Accrued Dividends		-	-
239	Matured Long Term Debt			
240	Matured Interest			
241	Miscellaneous Current & Accrued Liabilities	F-20	19,862	29,220
	Total Current & Accrued Liabilities		$ 303,586	$ 307,203

* Not Applicable for Class B Utilities

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED CREDITS			
251	Unamortized Premium On Debt	F-13	$ -	$ -
252	Advances For Construction	F-20	-	-
253	Other Deferred Credits	F-21	-	-
255	Accumulated Deferred Investment Tax Credits			
	Total Deferred Credits		$ -	$ -
	OPERATING RESERVES			
261	Property Insurance Reserve		$	$
262	Injuries & Damages Reserve			
263	Pensions and Benefits Reserve			
265	Miscellaneous Operating Reserves			
	Total Operating Reserves		$ -	$ -
	CONTRIBUTIONS IN AID OF CONSTRUCTION			
271	Contributions in Aid of Construction	F-22	$ 1,978,697	$ 2,015,232
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	(1,492,766)	(1,541,652)
	Total Net C.I.A.C.		$ 485,931	$ 473,580
	ACCUMULATED DEFERRED INCOME TAXES			
281	Accumulated Deferred Income Taxes - Accelerated Depreciation		$	$
282	Accumulated Deferred Income Taxes - Liberalized Depreciation			
283	Accumulated Deferred Income Taxes - Other			
	Total Accumulated Deferred Income Tax		$ -	$ -
	TOTAL EQUITY CAPITAL AND LIABILITIES		$ 962,578	$ 921,393

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR * (e)
	UTILITY OPERATING INCOME			
400	Operating Revenues	F-3(b)	$ 1,115,429	$ 1,133,299
469, 530	Less: Guaranteed Revenue and AFPI	F-3(b)	-	-
	Net Operating Revenues		$ 1,115,429	$ 1,133,299
401	Operating Expenses	F-3(b)	$ 1,015,567	$ 1,000,126
403	Depreciation Expense:	F-3(b)	$ 96,570	$ 90,951
	Less: Amortization of CIAC	F-22	49,723	48,884
	Net Depreciation Expense		$ 46,847	$ 42,067
406	Amortization of Utility Plant Acquisition Adjustment	F-3(b)	382	387
407	Amortization Expense (Other than CIAC)	F-3(b)	-	-
408	Taxes Other Than Income	W/S-3	99,500	99,468
409	Current Income Taxes	W/S-3	-	-
410.10	Deferred Federal Income Taxes	W/S-3	-	-
410.11	Deferred State Income Taxes	W/S-3	-	-
411.10	Provision for Deferred Income Taxes - Credit	W/S-3	-	-
412.10	Investment Tax Credits Deferred to Future Periods	W/S-3	-	-
412.11	Investment Tax Credits Restored to Operating Income	W/S-3	-	-
	Utility Operating Expenses		$ 1,162,296	$ 1,142,048
	Net Utility Operating Income		$ (46,867)	$ (8,749)
469, 530	Add Back: Guaranteed Revenue and AFPI	F-3(b)	-	-
413	Income From Utility Plant Leased to Others		-	-
414	Gains (losses) From Disposition of Utility Property		-	-
420	Allowance for Funds Used During Construction		-	-
	Total Utility Operating Income [Enter here and on Page F-3(c)]		$ (46,867)	$ (8,749)

* For each account, Column e should agree with Columns f, g and h on F-3(b)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE OPERATING STATEMENT (Cont'd)

WATER SCHEDULE W-3 * (f)	WASTEWATER SCHEDULE S-3 * (g)	OTHER THAN REPORTING SYSTEMS (h)
$ 1,101,842	$ -	$ 31,457 *
-	$ -	
$ 1,101,842	$ -	$ 31,457
$ 967,893	$ -	$ 32,233 *
86,767	$ -	4,184 *
48,404	$ -	480 *
$ 38,363	$ -	$ 3,704
746	$ -	(359) *
-	$ -	
96,937	$ -	2,531 *
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
$ 1,103,939	$ -	$ 38,109
$ (2,097)	$ -	$ (6,652)
-	$ -	
-	$ -	
-	$ -	-
-	$ -	
$ (2,097)	$ -	$ (6,652)

* Total of Schedules W-3 / S-3 for all rate groups.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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COMPARATIVE OPERATING STATEMENT (Cont'd)

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
Total Utility Operating Income [from page F-3(a)]			$ (46,867)	$ (8,749)
	OTHER INCOME AND DEDUCTIONS			
415	Revenues-Merchandising, Jobbing, and Contract Deductions		$	$
416	Costs & Expenses of Merchandising Jobbing, and Contract Work			
419	Interest and Dividend Income		41	-
421	Nonutility Income		178	512
426	Miscellaneous Nonutility Expenses		-	-
Total Other Income and Deductions			$ 219	$ 512
	TAXES APPLICABLE TO OTHER INCOME			
408.20	Taxes Other Than Income		$	$
409.20	Income Taxes			
410.20	Provision for Deferred Income Taxes			
411.20	Provision for Deferred Income Taxes - Credit			
412.20	Investment Tax Credits - Net			
412.30	Investment Tax Credits Restored to Operating Income			
Total Taxes Applicable To Other Income			$ -	$ -
	INTEREST EXPENSE			
427	Interest Expense	F-19	$ (7,772)	$ (9,214)
428	Amortization of Debt Discount & Expense	F-13		
429	Amortization of Premium on Debt	F-13		
Total Interest Expense			$ (7,772)	$ (9,214)
	EXTRAORDINARY ITEMS			
433	Extraordinary Income		$	$
434	Extraordinary Deductions			
409.30	Income Taxes, Extraordinary Items			
Total Extraordinary Items			$ -	$ -
NET INCOME			$ (54,420)	$ (17,451)

Explain Extraordinary Income:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF YEAR END RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	WATER UTILITY (d)	WASTEWATER UTILITY (e)
101	Utility Plant In Service	F-7	$ 3,366,426	$ -
	Less:			
	Nonused and Useful Plant (1)		57,604	
108	Accumulated Depreciation	F-8	2,634,312	-
110	Accumulated Amortization	F-8	-	-
271	Contributions in Aid of Construction	F-22	1,994,494	-
252	Advances for Construction	F-20	-	
	Subtotal		$ (1,319,984)	$ -
	Add:			
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	1,528,130	-
	Subtotal		$ 208,146	$ 0
	Plus or Minus:			
114	Acquisition Adjustments (2)	F-7	29,838	-
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(11,935)	-
	Working Capital Allowance (3)		120,987	-
	Other (Specify):			
105	Construction in Process		-	-
	RATE BASE		$ 347,036	$ -
	NET UTILITY OPERATING INCOME		$ (2,097)	$ -
	ACHIEVED RATE OF RETURN (Operating Income / Rate Base)		-0.60%	

NOTES :

(1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF CURRENT COST OF CAPITAL
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING (1)

CLASS OF CAPITAL (a)	DOLLAR AMOUNT (2) (b)	PERCENTAGE OF CAPITAL (c)	ACTUAL COST RATES (3) (d)	WEIGHTED COST (c x d) (e)
Common Equity	$ 100	-		
Preferred Stock		-		
Long Term Debt		-		
Customer Deposits		-		
Tax Credits - Zero Cost		-		
Tax Credits - Weighted Cost		-		
Deferred Income Taxes		-		
Other (Explain)		-		
		-		
Total	$ 100			

(1) If the utility's capital structure is not used, explain which capital structure is used.

(2) Should equal amounts on Schedule F-6, Column (g).

(3) Mid-point of the last authorized Return On Equity or current leverage formula if none has been established.

Must be calculated using the same methodology used in the last rate proceeding using current annual report year end amounts and cost rates.

APPROVED RETURN ON EQUITY

Current Commission Return on Equity:	9.13
Commission order approving Return on Equity:	12-0357-PAA-WU

APPROVED AFUDC RATE

COMPLETION ONLY REQUIRED IF AFUDC WAS CHARGED DURING YEAR

Current Commission Approved AFUDC rate:	9.13%
Commission order approving AFUDC rate:	12-0357-PPA-WU

If any utility capitalized any charge in lieu of AFUDC (such as interest only), state the basis of the charge, an explanation as to why AFUDC was not charged and the percentage capitalized.

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SCHEDULE OF CAPITAL STRUCTURE ADJUSTMENTS
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING

CLASS OF CAPITAL (a)	PER BOOK BALANCE (b)	NON-UTILITY ADJUSTMENTS (c)	NON-JURISDICTIONAL ADJUSTMENTS (d)	OTHER (1) ADJUSTMENTS SPECIFIC (e)	OTHER (1) ADJUSTMENTS PRO RATA (f)	CAPITAL STRUCTURE (g)
Common Equity	$ 100	$	$	$	$	$
Preferred Stock						
Long Term Debt						
Customer Deposits						
Tax Credits - Zero Cost						
Tax Credits - Weighted Cost						
Deferred Inc. Taxes						
Other (Explain)						
Total	$ 100	$	$	$	$	$

(1) Explain below all adjustments made in Columns (e) and (f):

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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UTILITY PLANT
ACCOUNTS 101 - 106

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
	Plant Accounts:				
101	Utility Plant In Service	$ 3,366,426	$	$ 85,620	$ 3,452,046
102	Utility Plant Leased to Other				-
103	Property Held for Future Use				-
104	Utility Plant Purchased or Sold				-
105	Construction Work in Progress	-			-
106	Completed Construction Not Classified				-
	Total Utility Plant	$ 3,366,426	$ -	$ 85,620	$ 3,452,046

UTILITY PLANT ACQUISITION ADJUSTMENTS
ACCOUNTS 114 AND 115

Report each acquisition adjustment and related accumulated amortization separately.
For any acquisition adjustments approved by the Commission, include the Order Number.

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
114	Acquisition Adjustment Heights Water Company	$ 10,000			$ 10,000
	Acq Adj - Sandy Acres	39,523			39,523
	Acq Adj - Quail Run	(19,685)			(19,685)
	Acq Adj - Comm. Water			(14,548)	(14,548)
					-
Total Plant Acquisition Adjustments		$ 29,838	$ -	$ (14,548)	$ 15,290
115	Accumulated Amortization AA Heights Water Compan	$ 4,000			$ 4,000
	AA Acq Adj - Sandy Acres	15,809			15,809
	AA Acq Adj - Quail Run	(7,874)			(7,874)
	AA Acq Adj - Comm. Water			(14,548)	(14,548)
					-
Total Accumulated Amortization		$ 11,935	$ -	$ (14,548)	$ (2,613)
Net Acquisition Adjustments		$ 17,903	$ -	$ -	$ 17,903

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCUMULATED DEPRECIATION (ACCT. 108) AND AMORTIZATION (ACCT. 110)

DESCRIPTION (a)	WATER (b)	WASTEWATER (c)	OTHER THAN REPORTING SYSTEMS (d)	TOTAL (e)
ACCUMULATED DEPRECIATION Account 108				
Balance first of year	$ 2,563,286	$	$ 54,103	$ 2,617,389
Credit during year:				
Accruals charged to:				
Account 108.1 (1)	$ 86,767	$	$ 2,956	$ 89,723
Account 108.2 (2)				-
Account 108.3 (2)				-
Other Accounts (specify):				-
				-
				-
Salvage	-			-
Other Credits (Specify):	-			-
as per auditor auditor adjustment				-
Total Credits	$ 86,767	$ -	$ 2,956	$ 89,723
Debits during year:				
Book cost of plant retired	15,741		384	16,125
Cost of Removal				-
Other Debits (specify):				-
				-
				-
Total Debits	$ 15,741	$ -	$ 384	$ 16,125
Balance end of year	$ 2,634,312	$ -	$ 56,675	$ 2,690,987
ACCUMULATED AMORTIZATION Account 110				
Balance first of year	$	$	$	$ -
Credit during year:				
ruals charged to:				
	$	$	$	$ -
Account 110.2 (3)				-
Other Accounts (specify):				-
				-
Total credits	$ -	$ -	$ -	$ -
Debits during year:				
Book cost of plant retired				-
Other debits (specify):				-
				-
Total Debits	$ -	$ -	$ -	$ -
Balance end of year	$ -	$ -	$ -	$ -

(1) Account 108 for Class B utilities.

(2) Not applicable for Class B utilities.

(3) Account 110 for Class B utilities.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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REGULATORY COMMISSION EXPENSE
AMORTIZATION OF RATE CASE EXPENSE (ACCOUNTS 666 AND 766)

DESCRIPTION OF CASE (DOCKET NO.) (a)	EXPENSE INCURRED DURING YEAR (b)	CHARGED OFF DURING YEAR	
		ACCT. (d)	AMOUNT (e)
100048-WU	$ -	0	$
Total	$		$

NONUTILITY PROPERTY (ACCOUNT 121)

Report separately each item of property with a book cost of $25,000 or more included in Account 121.
Other Items may be grouped by classes of property.

DESCRIPTION (a)	BEGINNING YEAR (b)	ADDITIONS (c)	REDUCTIONS (d)	ENDING YEAR BALANCE (e)
None	$	$	$	$
Total Nonutility Property	$ -	$ -	$ -	$ -

SPECIAL DEPOSITS (ACCOUNTS 132 AND 133)

Report hereunder all special deposits carried in Accounts 132 and 133.

DESCRIPTION OF SPECIAL DEPOSITS (a)	YEAR END BOOK COST (b)
SPECIAL DEPOSITS (Account 132):	
Customer Deposits	$ 66,730
Total Special Deposits	$ 74,431
OTHER SPECIAL DEPOSITS (Account 133):	
Interim Rate Reserve	$ -
Health Insurance Co-Pay	-
Total Other Special Deposits	$ -

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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INVESTMENTS AND SPECIAL FUNDS
ACCOUNTS 123 - 127

Report hereunder all investments and special funds carried in Accounts 123 through 127.

DESCRIPTION OF SECURITY OR SPECIAL FUND (a)	FACE OR PAR VALUE (b)	YEAR END BOOK COST (c)
INVESTMENT IN ASSOCIATED COMPANIES (Account 123):	$	$
None		
Total Investment in Associated Companies		$
UTILITY INVESTMENTS (Account 124):	$	$
None		
Total Utility Investment		$
OTHER INVESTMENTS (Account 125):	$	$
None		
Total Other Investment		$
SPECIAL FUNDS (Class A Utilities: Accounts 126 and 127; Class B Utilities: Account 127):		$
None		
Total Special Funds		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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ACCOUNTS AND NOTES RECEIVABLE - NET
ACCOUNTS 141 - 144

Report hereunder all accounts and notes receivable included in Accounts 141, 142, and 144. Amounts included in Amounts included in Accounts 142 and 144 should be listed individually.

DESCRIPTION (a)		TOTAL (b)
CUSTOMER ACCOUNTS RECEIVABLE (Account 141):		
Water	$ 26,431	
Wastewater		
Other		
Total Customer Accounts Receivable		$ 26,431
OTHER ACCOUNTS RECEIVABLE (Account 142):		
Employee accounts receivable	$ 3,429	
Total Other Accounts Receivable		$ 3,429
NOTES RECEIVABLE (Account 144):		
	$	
None		
Total Notes Receivable		$ -
Total Accounts and Notes Receivable		$ 29,860
ACCUMULATED PROVISION FOR UNCOLLECTIBLE ACCOUNTS (Account 143)		
Balance first of year	$	
Add: Provision for uncollectibles for current year	$	
Collection of accounts previously written off		
Utility Accounts		
Others		
Total Additions	$	
Deduct accounts written off during year:		
Utility Accounts		
Others		
Total accounts written off	$	
Balance end of year		$ -
TOTAL ACCOUNTS AND NOTES RECEIVABLE - NET		$ 29,860

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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ACCOUNTS RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 145

Report each account receivable from associated companies separately.

DESCRIPTION (a)	TOTAL (b)
None	$
Total	$

NOTES RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 146

Report each note receivable from associated companies separately.

DESCRIPTION (a)	INTEREST RATE (b)	TOTAL (c)
None	%	$
Total		$

MISCELLANEOUS CURRENT AND ACCRUED ASSETS
ACCOUNT 174

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
None	$
Total Miscellaneous Current and Accrued Liabilities	$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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UNAMORTIZED DEBT DISCOUNT AND EXPENSE AND PREMIUM ON DEBT
ACCOUNTS 181 AND 251

Report the net discount and expense or premium separately for each security issue.

DESCRIPTION (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
UNAMORTIZED DEBT DISCOUNT AND EXPENSE (Account 181):		
None	$	$
Total Unamortized Debt Discount and Expense	$	$
UNAMORTIZED PREMIUM ON DEBT (Account 251):		
None	$	$
Total Unamortized Premium on Debt	$	$ -

EXTRAORDINARY PROPERTY LOSSES
ACCOUNT 182

Report each item separately.

DESCRIPTION (a)	TOTAL (b)
None	$
Total Extraordinary Property Losses	$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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MISCELLANEOUS DEFERRED DEBITS
ACCOUNT 186

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
DEFERRED RATE CASE EXPENSE (Class A Utilities: Account 186.1)		
	$	$ -
Total Deferred Rate Case Expense	$ -	$ -
OTHER DEFERRED DEBITS (Class A Utilities: Account 186.2):		
3 year well maintenance & testing	$ 9,424	14,685
5 year tank testing	4,683	18,875
Total Other Deferred Debits	$ 14,107	$ 33,560
REGULATORY ASSETS (Class A Utilities: Account. 186.3):		
	$	$
Total Regulatory Assets	$ -	$ -
TOTAL MISCELLANEOUS DEFERRED DEBITS	$ 14,107	$ 33,560

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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CAPITAL STOCK
ACCOUNTS 201 AND 204*

DESCRIPTION (a)	RATE (b)	TOTAL (c)
COMMON STOCK		
Par or stated value per share	%	$ 1
Shares authorized		7,500
Shares issued and outstanding		100
Total par value of stock issued	%	$ 100
Dividends declared per share for year	%	$
PREFERRED STOCK		
Par or stated value per share	None %	$
Shares authorized		
Shares issued and outstanding		
Total par value of stock issued	%	$
Dividends declared per share for year	%	$

* Account 204 not applicable for Class B utilities.

BONDS
ACCOUNT 221

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total			$

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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STATEMENT OF RETAINED EARNINGS

1. Dividends should be shown for each class and series of capital stock. Show amounts as dividends per share.
2. Show separately the state and federal income tax effect of items shown in Account No. 439.

ACCT. NO. (a)	DESCRIPTION (b)	AMOUNTS (c)
215	Unappropriated Retained Earnings:	
	Balance Beginning of Year	$ (341,320)
	Changes to Account:	
439	Adjustments to Retained Earnings (requires Commission approval prior to use):	
	Credits:	$ -
	Total Credits:	$ -
	Debits:	$
	Total Debits:	$ -
435	Balance Transferred from Income	$ (17,451)
436	Appropriations of Retained Earnings:	
	Total Appropriations of Retained Earnings	$ -
	Dividends Declared:	
437	Preferred Stock Dividends Declared	
438	Common Stock Dividends Declared — Shareholder Distributions	-
	Total Dividends Declared	$ -
215	Year end Balance	$ (358,771)
214	Appropriated Retained Earnings (state balance and purpose of each appropriated amount at year end):	
214	Total Appropriated Retained Earnings	$ -
Total Retained Earnings		$ (358,771)

Notes to Statement of Retained Earnings:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

ADVANCES FROM ASSOCIATED COMPANIES
ACCOUNT 223

Report each advance separately.

DESCRIPTION (a)	TOTAL (b)
None	$ -
Total	$ -

OTHER LONG-TERM DEBT
ACCOUNT 224

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
Devoloper Payments Due Harper Boulder Hill	0.00 %		$ 286
Developer Payments Due Ellison Country Walk	0.00 %		519
Developer Payments Due Albright Hilltop	0.00 %		7,946
Developer Payments Due Williamson Northwoods	0.00 %		1,271
Developer Payments Due Ellison Stonehill	0.00 %		278
Developer Payments Due Labuinger Silverwood Villa	0.00 %		100
Developer Payments Due Seyler Conventry	0.00 %		3,445
Developer Payments Due Lake Bryant Estates	0.00 %		3,635
Developer Payments Due Albright Lake Weir Hgts 2nd Add	0.00 %		2,112
Developer Payments Due Tuscany Hills	0.00 %		1,470
Developer Payments Due Lexington Estates Developer AGR	0.00 %		3,727
	%		
	%		
	%		
	%		
	%		
Total			$ 24,789

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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NOTES PAYABLE
ACCOUNTS 232 AND 234

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
NOTES PAYABLE (Account 232):			
	%		$ -
L/P Kyocera Copier	0.00 %	Fixed	4,055
Line of Credit	7.50 %	Prime + 2%	98,000
Loan Payable Dewaine Christmas	0.00 %		5,000
Loan Payable James Hodges Jr.	0.00 %		5,000
	%		
	%		
	%		
Total Account 232			$ 112,055
NOTES PAYABLE TO ASSOC. COMPANIES (Account 234):			
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total Account 234			$ -

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

ACCOUNTS PAYABLE TO ASSOCIATED COMPANIES
ACCOUNT 233

Report each account payable separately.

DESCRIPTION (a)	TOTAL (b)
	$
None	
Total	$ -

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

ACCRUED INTEREST AND EXPENSE
ACCOUNTS 237 AND 427

DESCRIPTION OF DEBIT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR		INTEREST PAID DURING YEAR (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
ACCOUNT NO. 237.1 - Accrued Interest on Long Term Debt					
	$		$	$	$
	-	427.4	-	-	
		428	-	-	
Total Account 237.1	$ -		$ -	$ -	$ -
ACCOUNT NO. 237.2 - Accrued Interest on Other Liabilities					
Customer Deposits	$ (49)	427	$ 1,824	2,135	$ (360)
		427			
Line of Credit		427	7,390	7,390	
Total Account 237.2	$ (49)		$ 9,214	$ 9,525	$ (360)
Total Account 237 (1)	$ (49)		$ 9,214	$ 9,525	$ (360)
INTEREST EXPENSED:					
Total accrual Account 237		237	$ 9,214		
Less Capitalized Interest Portion of AFUDC:					
Net Interest Expensed to Account No. 427 (2)			$ 9,214		

(1) Must agree to F-2 (a), Beginning and Ending Balance of Accrued Interest.

(2) Must agree to F-3 (c), Current Year Interest Expense

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

MISCELLANEOUS CURRENT AND ACCRUED LIABILITIES
ACCOUNT 241

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
	$
Accrued Payroll	4,202
Pension & Benefit Reserve	25,018
Total Miscellaneous Current and Accrued Liabilities	$ 29,220

ADVANCES FOR CONSTRUCTION
ACCOUNT 252

NAME OF PAYOR * (a)	BALANCE BEGINNING OF YEAR (b)	DEBITS		CREDITS (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
	$	252	$		$ -
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252	-		-
		252			-
		252	-		-
Total	$ -		$ -	$ -	$ -

* Report advances separately by reporting group, designating water or wastewater in column (a).

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

OTHER DEFERRED CREDITS
ACCOUNT 253

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
REGULATORY LIABILITIES (Class A Utilities: Account 253.1):		
None	$ -	$ -
Total Regulatory Liabilities	$ -	$ -
OTHER DEFERRED LIABILITIES (Class A Utilities: Account 253.2):		
None	$ -	$ -
Total Other Deferred Liabilities	$ -	$ -
TOTAL OTHER DEFERRED CREDITS	$ -	$ -

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	WATER (W-7) (b)	WASTEWATER (S-7) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,957,959	$ -	$ 20,738	$ 1,978,697
Add credits during year:	$ 36,535		-	36,535
Less debit charged during the year	$	$ -	$	$ -
Total Contribution In Aid of Construction	$ 1,994,494	$ -	$ 20,738	$ 2,015,232

ACCUMULATED AMORTIZATION OF CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 272

DESCRIPTION (a)	WATER (W-8(a)) (b)	WASTEWATER (S-8(a)) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,479,726	$ -	$ 13,041	$ 1,492,767
Debits during the year:	$ 48,404		481	$ 48,885
Credits during the year	$ -	$ -	$	$ -
Total Accumulated Amortization of Contributions In Aid of Construction	$ 1,528,130	$ -	$ 13,522	$ 1,541,652

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

RECONCILIATION OF REPORTED NET INCOME WITH TAXABLE INCOME FOR FEDERAL INCOME TAXES (UTILITY OPERATIONS)

1. The reconciliation should include the same detail as furnished on Schedule M-1 of the federal tax return for the year. The reconciliation shall be submitted even though there is no taxable income for the year. Descriptions should clearly indicate the nature of each reconciling amount and show the computations of all tax accruals.

2. If the utility is a member of a group which files a consolidated federal tax return, reconcile reported net income with taxable net income as if a separate return were to be filed, indicating intercompany amounts to be eliminated in such consolidated return. State names of group members, tax assigned to each group member, and basis of allocation, assignments or sharing of the consolidated tax among the group members.

DESCRIPTION (a)	REF. NO. (b)	AMOUNT (c)
Net income for the year	F-3(c)	$
Reconciling items for the year:		
Taxable income not reported on books:		
		-
		-
		-
		-
Deductions recorded on books not deducted for return:		
Income recorded on books not included in return:		
		-
		-
		-
		-
Deduction on return not charged against book income:		
		-
		-
		-
		-
Federal tax net income		$ -

Computation of tax :

This Corporation is an "S" Corporation, therfore this schedule is not applicable

WATER
OPERATION
SECTION

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

WATER LISTING OF SYSTEM GROUPS

List below the name of each reporting system and its certificate number. Those systems which have been consolidated under the same tariff should be assigned a group number. Each individual system which has not been consolidated should be assigned its own group number.
The water financial schedules (W-2 through W-10) should be filed for the group in total.
The water engineering schedules (W-11 through W-14) must be filed for each system in the group.
All of the following water pages (W-2 through W-14) should be completed for each group and arranged by group number.

SYSTEM NAME / COUNTY	CERTIFICATE NUMBER	GROUP NUMBER
Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)	363W	1
Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines	363W	4

Note: On August 1, 1999 Citrus County took over monitoring responsibilties
Therefore Citrus County is no longer included in this report.

WATER
OPERATION
SECTION
GROUP 1

YEAR OF REPORT
December 31, 2019

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 204,897
	Less: Nonused and Useful Plant (1)		621
108	Accumulated Depreciation	W-6(b)	80,950
110	Accumulated Amortization		-
271	Contributions in Aid of Construction	W-7	21,539
252	Advances for Construction	F-20	-
	Subtotal		$ 101,787
272	Add: Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 7,951
	Subtotal		$ 109,738
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	(9,685)
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	3,874
	Working Capital Allowance (3)		7,758
	Other (Specify):		
105	Construction in Process		-
	WATER RATE BASE		$ 111,685
	WATER OPERATING INCOME	W-3	$ 9,997
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		8.95%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

YEAR OF REPORT
December 31, 2019

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 83,703
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 83,703
401	Operating Expenses	W-10(a)	$ 62,061
403	Depreciation Expense	W-6(a)	6,701
	Less: Amortization of CIAC	W-8(a)	690
	Net Depreciation Expense		$ 6,011
406	Amortization of Utility Plant Acquisition Adjustment	F-7	(242)
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		3,767
408.11	Property Taxes		325
408.12	Payroll Taxes		1,784
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 5,876
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 73,706
	Utility Operating Income		$ 9,997
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		-
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ 9,997

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ -	$		$ -
302	Franchises	-			-
303	Land and Land Rights	36,113			36,113
304	Structures and Improvements	5,207			5,207
305	Collecting and Impounding Reservoirs	-			-
306	Lake, River and Other Intakes	-			-
307	Wells and Springs	43,921			43,921
308	Infiltration Galleries and Tunnels	-			-
309	Supply Mains	-			-
310	Power Generation Equipment	-			-
311	Pumping Equipment	25,083	968	-	26,051
320	Water Treatment Equipment	8,099	229	(483)	7,845
330	Distribution Reservoirs and Standpipes	39,572			39,572
331	Transmission and Distribution Mains	11,648			11,648
333	Services	10,704	-		10,704
334	Meters and Meter Installations	12,356			12,356
335	Hydrants	-			-
336	Backflow Prevention Devices	-			-
339	Other Plant Miscellaneous Equipment	-			-
340	Office Furniture and Equipment	8,204	371	(479)	8,096
341	Transportation Equipment	1,874			1,874
342	Stores Equipment	-			-
343	Tools, Shop and Garage Equipment	1,457	53		1,510
344	Laboratory Equipment	-			-
345	Power Operated Equipment	-			-
346	Communication Equipment	-			-
347	Miscellaneous Equipment	-			-
349	Abandonment of Regional Plant	-			-
	TOTAL WATER PLANT	$ 204,238	$ 1,621	$ -962	$ 204,897

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ -	$ -	$	$	$	$
302	Franchises	-	-				
303	Land and Land Rights	36,113		36,113	-	-	-
304	Structures and Improvements	5,207		5,207	-	-	-
305	Collecting and Impounding Reservoirs	-		-			
306	Lake, River and Other Intakes	-		-			
307	Wells and Springs	43,921		43,921			
308	Infiltration Galleries and Tunnels	-		-			
309	Supply Mains	-		-			
310	Power Generation Equipment	-		-			
311	Pumping Equipment	26,051		26,051	-	-	
320	Water Treatment Equipment	7,845			7,845		
330	Distribution Reservoirs and Standpipes	39,572				39,572	
331	Transmission and Distribution Mains	11,648				11,648	
333	Services	10,704				10,704	
334	Meters and Meter Installations	12,356				12,356	
335	Hydrants	-				-	
336	Backflow Prevention Devices	-				-	
339	Other Plant Miscellaneous Equipment	-	-	-	-	-	
340	Office Furniture and Equipment	8,096					8,096
341	Transportation Equipment	1,874					1,874
342	Stores Equipment	-					-
343	Tools, Shop and Garage Equipment	1,510					1,510
344	Laboratory Equipment	-					
345	Power Operated Equipment	-					-
346	Communication Equipment	-					-
347	Miscellaneous Equipment	-					-
349	Abandonment of Regional Plant	-					-
	TOTAL WATER PLANT	$ 204,897	$ 0	$ 111,292	$ 7,845	$ 74,280	$ 11,480

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ -	$ -		$ -
304	Structures and Improvements	5,207	-		-
305	Collecting and Impounding Reservoirs	-			-
306	Lake, River and Other Intakes	-			-
307	Wells and Springs	14,547	1,464		1,464
308	Infiltration Galleries and Tunnels	-			-
309	Supply Mains	-	-		-
310	Power Generation Equipment	-	-		-
311	Pumping Equipment	14,275	1,286		1,286
320	Water Treatment Equipment	1,962	354		354
330	Distribution Reservoirs and Standpipes	13,080	1,799		1,799
331	Transmission and Distribution Mains	11,647	-		-
333	Services	884	249		249
334	Meters and Meter Installations	7,026	618		618
335	Hydrants	-			-
336	Backflow Prevention Devices	-			-
339	Other Plant Miscellaneous Equipment	-	-		-
340	Office Furniture and Equipment	5,175	527		527
341	Transportation Equipment	992	312		312
342	Stores Equipment	-	-		-
343	Tools, Shop and Garage Equipment	417	92		92
344	Laboratory Equipment	-			-
345	Power Operated Equipment	-	-		-
346	Communication Equipment	-	-		-
347	Miscellaneous Equipment	-	-		-
349	Abandonment of Regional Plant	-	-		-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 75,212	$ 6,701	$ 0	$ 6,701

* Auditor Adjustment

Use ( ) to denote reversal entries.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$ -			$ -	$ -
304	Structures and Improvements				-	5,207
305	Collecting and Impounding Reservoirs				-	-
306	Lake, River and Other Intakes				-	-
307	Wells and Springs				-	16,011
308	Infiltration Galleries and Tunnels				-	-
309	Supply Mains			-	-	-
310	Power Generation Equipment				-	-
311	Pumping Equipment			-	-	15,561
320	Water Treatment Equipment	485			485	1,831
330	Distribution Reservoirs and Standpipes	-			-	14,879
331	Transmission and Distribution Mains	(1)			(1)	11,648
333	Services				-	1,133
334	Meters and Meter Installations				-	7,644
335	Hydrants				-	-
336	Backflow Prevention Devices				-	-
339	Other Plant Miscellaneous Equipment				-	-
340	Office Furniture and Equipment	479			479	5,223
341	Transportation Equipment				-	1,304
342	Stores Equipment				-	-
343	Tools, Shop and Garage Equipment				-	509
344	Laboratory Equipment				-	-
345	Power Operated Equipment				-	-
346	Communication Equipment				-	-
347	Miscellaneous Equipment				-	-
349	Abandonment of Regional Plant				-	-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 963	$ 0	$ 0	$ 963	$ 80,950

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 21,539
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 0
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	0
Total Credits		$ 0
Less debits charged during the year (All debits charged during the year must be explained below)		$ 0
Total Contributions In Aid of Construction		$ 21,539

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	-	$ 865.0	$ -
Other Side Tap 3/4" meter	-	1,230.0	-
Other Side Tap 3/4" meter	-	1,165.0	-
Other Side Tap 3/4" meter	-	1,270.0	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
Total Credits			$ -

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 7,261
Debits during the year:	
Accruals charged to Account 272	$ 690
Other debits (specify) :	
Total debits	$ 690
Credits during the year (specify) :	
Audit Adjustment	$ 0
Total credits	$ -
Balance end of year	$ 7,951

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
		$
Total Credits		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue			$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	289	283	76,617
461.2	Sales to Commercial Customers			
461.3	Sales to Industrial Customers			
461.4	Sales to Public Authorities			
461.5	Sales Multiple Family Dwellings			
	Total Metered Sales	289	283	$ 76,617
	Fire Protection Revenue:			
462.1	Public Fire Protection			
462.2	Private Fire Protection			
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities			
465	Sales To Irrigation Customers			
466	Sales For Resale			
467	Interdepartmental Sales			
	Total Water Sales	289	283	$ 76,617
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$
470	Forfeited Discounts			
471	Miscellaneous Service Revenues			7,086
472	Rents From Water Property			
473	Interdepartmental Rents			
474	Other Water Revenues			
	Total Other Water Revenues			$ 7,086
	Total Water Operating Revenues			$ 83,703

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 8,074	$	1,152
603	Salaries and Wages - Officers, Directors and Majority Stockholders	14,141		476
604	Employee Pensions and Benefits	4,589		336
610	Purchased Water	-		
615	Purchased Power	4,641	4,431	-
616	Fuel for Power Production	-	-	
618	Chemicals	977		
620	Materials and Supplies	1,940		106
631	Contractual Services-Engineering	-	-	
632	Contractual Services - Accounting	4,821		
633	Contractual Services - Legal	-		
634	Contractual Services - Mgt. Fees	-		
635	Contractual Services - Testing	2,660		
636	Contractual Services - Other	8,556		1,296
641	Rental of Building/Real Property	727	-	
642	Rental of Equipment	-		-
650	Transportation Expenses	3,384		
656	Insurance - Vehicle	785		
657	Insurance - General Liability	-		
658	Insurance - Workman's Comp.	437		
659	Insurance - Other	-		
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-		
668	Water Resource Conservation Exp.	-		
670	Bad Debt Expense	737		
675	Miscellaneous Expenses	$ 5,592	600	12
	Total Water Utility Expenses	$ 62,061	$ 5,031	$ 3,378

YEAR OF REPORT
December 31, 2019

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	112	-	3,188	3,216	406
	170		1,589	3,455	8,451
	58		987	1,378	1,830
					210
977					
	-		1,834		-
					4,821
					-
2,660			-		
	7,260		-		-
					727
		-			-
				3,384	-
				785	
				-	
				109	328
				737	
			98	1,627	3,255
$ 3,637	$ 7,600	$ -	$ 7,696	$ 14,691	$ 20,028

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Quail Run / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		847	21	826	826
February		768	125	643	643
March		867	19	848	848
April		855	115	740	740
May		806	171	635	635
June		802	205	597	597
July		749	122	627	627
August		943	69	874	874
September		795	184	611	611
October		763	154	609	609
November		788	174	614	614
December		748	16	732	732
Total for Year	-	9,731	1,375	8,356	8,356

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,216,000 *	26,660	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 518400

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	88	88
3/4"	Displacement	1.5		
1"	Displacement	2.5	16	40
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		128

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 65

W-13
GROUP 1
SYSTEM Quail Run

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 128
2. Maximum number of ERCs * which can be served. 138
3. Present system connection capacity (in ERCs *) using existing lines. 1481
4. Future connection capacity (in ERCs *) upon service area buildout. 1481
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424046
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		949	284	665	665
February		1,003	447	556	556
March		822	196	626	626
April		904	195	709	709
May		1,205	484	721	721
June		1,297	531	766	766
July		1,061	257	804	804
August		1,607	831	776	776
September		1,112	492	620	620
October		1,304	385	919	919
November		1,061	495	566	566
December		1,131	599	532	532
Total for Year	-	13,456	5,196	8,260	8,260

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,000,000	36,866	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ponderosa Pines / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 517,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Ponderosa Pines / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	179	179
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		179

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 65

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ponderosa Pines / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 179
2. Maximum number of ERCs * which can be served. 179
3. Present system connection capacity (in ERCs *) using existing lines. 179
4. Future connection capacity (in ERCs *) upon service area buildout. 179
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WATER
OPERATION
SECTION
GROUP 4

YEAR OF REPORT
December 31, 2019

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 3,161,529
	Less:		
	Nonused and Useful Plant (1)		56,983
108	Accumulated Depreciation	W-6(b)	2,553,362
110	Accumulated Amortization		
271	Contributions in Aid of Construction	W-7	1,972,955
252	Advances for Construction	F-20	-
	Subtotal		$ (1,421,771)
	Add:		
272	Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 1,520,179
	Subtotal		$ 98,408
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	39,523
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(15,809)
	Working Capital Allowance (3)		113,229
	Other (Specify):		
105	Construction in Process		-
	WATER RATE BASE		$ 235,351
	WATER OPERATING INCOME	W-3	$ (12,094)
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		-5.14%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

YEAR OF REPORT
December 31, 2019

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 1,018,139
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 1,018,139
401	Operating Expenses	W-10(a)	$ 905,832
403	Depreciation Expense	W-6(a)	80,066
	Less: Amortization of CIAC	W-8(a)	47,714
	Net Depreciation Expense		$ 32,352
406	Amortization of Utility Plant Acquisition Adjustment	F-7	988
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		45,855
408.11	Property Taxes		18,078
408.12	Payroll Taxes		27,128
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 91,061
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 1,030,233
	Utility Operating Income		$ (12,094)
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ (12,094)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ 1,660	$ -	-	$ 1,660
302	Franchises	-	-	-	-
303	Land and Land Rights	70,777	-	-	70,777
304	Structures and Improvements	6,227	-	-	6,227
305	Collecting and Impounding Reservoirs	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-
307	Wells and Springs	75,016	-	-	75,016
308	Infiltration Galleries and Tunnels	-	-	-	-
309	Supply Mains	107,157	-	-	107,157
310	Power Generation Equipment	87,956	321	-	88,277
311	Pumping Equipment	517,853	10,096	(5,036)	522,913
320	Water Treatment Equipment	210,950	3,629	(1,602)	212,977
330	Distribution Reservoirs and Standpipes	76,232	19,572	-	95,804
331	Transmission and Distribution Mains	1,074,742	-	-	1,074,742
333	Services	153,017	4,992	-	158,009
334	Meters and Meter Installations	210,887	5,231	(2,203)	213,915
335	Hydrants	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-
339	Other Plant Miscellaneous Equipment	25,858	-	-	25,858
340	Office Furniture and Equipment	85,222	4,613	(5,938)	83,897
341	Transportation Equipment	115,148	-	-	115,148
342	Stores Equipment	4,425	-	-	4,425
343	Tools, Shop and Garage Equipment	34,959	827	-	35,786
344	Laboratory Equipment	-	-	-	-
345	Power Operated Equipment	5,200	-	-	5,200
346	Communication Equipment	10,912	-	-	10,912
347	Miscellaneous Equipment	17,436	-	-	17,436
349	Abandonment of Regional Plant	235,393	-	-	235,393
	TOTAL WATER PLANT	$ 3,127,027	$ 49,281	$ -14,779	$ 3,161,529

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.
* auditor adjustment

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ 1,660	$ 1,660	$	$	$	$
302	Franchises	-	-				
303	Land and Land Rights	70,777		70,777	-	-	-
304	Structures and Improvements	6,227		6,227	-	-	-
305	Collecting and Impounding Reservoirs	-		-			
306	Lake, River and Other Intakes	-		-			
307	Wells and Springs	75,016		75,016			
308	Infiltration Galleries and Tunnels	-		-			
309	Supply Mains	107,157		107,157			
310	Power Generation Equipment	88,277		88,277			
311	Pumping Equipment	522,913		522,913	-	-	
320	Water Treatment Equipment	212,977			212,977		
330	Distribution Reservoirs and Standpipes	95,804				95,804	
331	Transmission and Distribution Mains	1,074,742				1,074,742	
333	Services	158,009				158,009	
334	Meters and Meter Installations	213,915				213,915	
335	Hydrants	-				-	
336	Backflow Prevention Devices	-				-	
339	Other Plant Miscellaneous Equipment	25,858	25,858	-	-	-	
340	Office Furniture and Equipment	83,897					83,897
341	Transportation Equipment	115,148					115,148
342	Stores Equipment	4,425					4,425
343	Tools, Shop and Garage Equipment	35,786					35,786
344	Laboratory Equipment	-					-
345	Power Operated Equipment	5,200					5,200
346	Communication Equipment	10,912					10,912
347	Miscellaneous Equipment	17,436					17,436
349	Abandonment of Regional Plant	235,393					235,393
	TOTAL WATER PLANT	$ 3,161,529	$ 27,518	$ 870,367	$ 212,977	$ 1,542,470	$ 508,197

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ 1,422	$ 41	-	$ 41
304	Structures and Improvements	3,141	189	-	189
305	Collecting and Impounding Reservoirs	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-
307	Wells and Springs	75,015	-	-	-
308	Infiltration Galleries and Tunnels	-	-	-	-
309	Supply Mains	40,121	3,062	-	3,062
310	Power Generation Equipment	67,630	5,878	-	5,878
311	Pumping Equipment	449,016	18,257	-	18,257
320	Water Treatment Equipment	198,369	688	-	688
330	Distribution Reservoirs and Standpipes	26,729	3,551	-	3,551
331	Transmission and Distribution Mains	940,007	24,993	-	24,993
333	Services	48,605	3,593	-	3,593
334	Meters and Meter Installations	160,986	10,543	-	10,543
335	Hydrants	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-
339	Other Plant Miscellaneous Equipment	25,858	-	-	-
340	Office Furniture and Equipment	44,566	5,439	-	5,439
341	Transportation Equipment	108,025	1,554	-	1,554
342	Stores Equipment	3,023	221	-	221
343	Tools, Shop and Garage Equipment	26,621	2,057	-	2,057
344	Laboratory Equipment	-	-	-	-
345	Power Operated Equipment	5,200	-	-	-
346	Communication Equipment	10,911	-	-	-
347	Miscellaneous Equipment	17,436	-	-	-
349	Abandonment of Regional Plant	235,393	-	-	-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 2,488,074	$ 80,066	$ 0	$ 80,066

* Specify nature of transaction
Use ( ) to denote reversal entries.

W-6(a)
GROUP 4

Entered on wrong line in 2007

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$ -	-	-	$ -	$ 1,463
304	Structures and Improvements	-	-	-	-	3,330
305	Collecting and Impounding Reservoirs	-	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-	-
307	Wells and Springs	-	-	-	-	75,015
308	Infiltration Galleries and Tunnels	-	-	-	-	-
309	Supply Mains	-	-	-	-	43,183
310	Power Generation Equipment	-	-	-	-	73,508
311	Pumping Equipment	5,036	-	-	5,036	462,237
320	Water Treatment Equipment	1,601	-	-	1,601	197,456
330	Distribution Reservoirs and Standpipes	-	-	-	-	30,280
331	Transmission and Distribution Mains	-	-	-	-	965,000
333	Services	-	-	-	-	52,198
334	Meters and Meter Installations	2,203	-	-	2,203	169,326
335	Hydrants	-	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-	-
339	Other Plant Miscellaneous Equipment	-	-	-	-	25,858
340	Office Furniture and Equipment	5,938	-	-	5,938	44,067
341	Transportation Equipment	-	-	-	-	109,579
342	Stores Equipment	-	-	-	-	3,244
343	Tools, Shop and Garage Equipment	-	-	-	-	28,678
344	Laboratory Equipment	-	-	-	-	-
345	Power Operated Equipment	-	-	-	-	5,200
346	Communication Equipment	-	-	-	-	10,911
347	Miscellaneous Equipment	-	-	-	-	17,436
349	Abandonment of Regional Plant	-	-	-	-	235,393
TOTAL WATER ACCUMULATED DEPRECIATION		$ 14,778	$ 0	$ 0	$ 14,778	$ 2,553,362

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 1,936,420
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 36,535
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	-
Total Credits		$ 36,535
Less debits charged during the year (All debits charged during the year must be explained below)		$ -
Total Contributions In Aid of Construction		$ 1,972,955

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

YEAR OF REPORT
December 31, 2019

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	38	$ 865	$ 32,870
Other Side Tap 3/4" meter	1	1,230	1,230
Other Side Tap 3/4" meter	1	1,165	1,165
Other Side Tap 3/4" meter	1	1,270	1,270
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
Total Credits			$ 36,535

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 1,472,465
Debits during the year:	
Accruals charged to Account 272	$ 47,714
Other debits (specify) :	
Auditor Adjustment	0
Total debits	$ 47,714
Credits during the year (specify) :	
	$ -
Total credits	$ -
Balance end of year	$ 1,520,179

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
N/A		$ 0
Total Credits		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue	-	-	$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	3,559	3,610	948,809
461.2	Sales to Commercial Customers	-	-	-
461.3	Sales to Industrial Customers	-	-	-
461.4	Sales to Public Authorities	-	-	-
461.5	Sales Multiple Family Dwellings	-	-	-
	Total Metered Sales	3,559	3,610	$ 948,809
	Fire Protection Revenue:			
462.1	Public Fire Protection	-	-	-
462.2	Private Fire Protection	-	-	-
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities	-	-	-
465	Sales To Irrigation Customers	-	-	-
466	Sales For Resale	-	-	-
467	Interdepartmental Sales	-	-	-
	Total Water Sales	3,559	3,610	$ 948,809
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$ -
470	Forfeited Discounts			-
471	Miscellaneous Service Revenues			69,330
472	Rents From Water Property			-
473	Interdepartmental Rents			-
474	Other Water Revenues			-
	Total Other Water Revenues			$ 69,330
	Total Water Operating Revenues			$ 1,018,139

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 145,442	$ -	14,417
603	Salaries and Wages - Officers, Directors and Majority Stockholders	205,018	-	35,622
604	Employee Pensions and Benefits	69,290	-	9,893
610	Purchased Water	-	-	-
615	Purchased Power	65,440	62,824	-
616	Fuel for Power Production	1,991	1,991	-
618	Chemicals	29,407	-	-
620	Materials and Supplies	32,180	-	7,855
631	Contractual Services-Engineering	-	-	-
632	Contractual Services - Accounting	20,640	-	-
633	Contractual Services - Legal	70	-	-
634	Contractual Services - Mgt. Fees	-	-	-
635	Contractual Services - Testing	30,060	-	-
636	Contractual Services - Other	61,845	-	11,517
641	Rental of Building/Real Property	111,568	102,534	-
642	Rental of Equipment	2,879	-	1,973
650	Transportation Expenses	39,741	-	-
656	Insurance - Vehicle	9,743	-	-
657	Insurance - General Liability	-	-	-
658	Insurance - Workman's Comp.	5,428	-	-
659	Insurance - Other	-	-	-
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-	-	-
668	Water Resource Conservation Exp.	-	-	-
670	Bad Debt Expense	7,347		
675	Miscellaneous Expenses	$ 67,743	8,000	255
	Total Water Utility Expenses	$ 905,832	$ 175,349	$ 81,532

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2019

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	892	-	61,382	51,730	17,021
-	136	-	20,799	44,030	104,431
-	203	-	16,248	18,933	24,013
-	-	-	-	-	-
-	-	-	-	-	2,616
-	-	-	-	-	-
29,407	-	-	-	-	-
-	106	-	24,219	-	-
-	-	-	-	-	-
-	-	-	-	-	20,640
-	-	-	-	-	70
-	-	-	-	-	-
30,060	-	-	-	-	-
-	38,508	-	11,820	-	-
-	-	-	-	-	9,034
-	-	-	906	-	-
-	-	-	-	39,741	-
-	-	-	-	9,743	-
-	-	-	-	-	-
-	-	-	-	1,359	4,069
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	1,753	7,347 21,540	36,195
$ 59,467	$ 39,845	$ -	$ 137,127	$ 194,423	$ 218,089

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		219	15	204	204
February		186	6	180	180
March		191	2	189	189
April		243	1	242	242
May		224	44	180	180
June		252	3	249	249
July		215	15	200	200
August		222	8	214	214
September		261	4	257	257
October		243	4	239	239
November		219	1	218	218
December		243	7	236	236
Total for Year	-	2,718	110	2,608	2,608

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	22,630,000 *	7,447	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 62000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential				
5/8"	Displacement	1.0	45	45
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
			Total Water System Meter Equivalents	45

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 159

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 45
2. Maximum number of ERCs * which can be served. 45
3. Present system connection capacity (in ERCs *) using existing lines. 45
4. Future connection capacity (in ERCs *) upon service area buildout. 45
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		575	30	545	545
February		476	129	347	347
March		466	24	442	442
April		522	100	422	422
May		526	129	397	397
June		545	59	486	486
July		488	101	387	387
August		464	27	437	437
September		519	321	198	198
October		519	137	382	382
November		555	160	395	395
December		568	230	338	338
Total for Year	-	6,223	1,447	4,776	4,776

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,700,000 *	17,049	Ground Water

* Annual

UTILITY NAME:	**Sunshine Utilities of Central Florida, Inc.**	**YEAR OF REPORT** December 31, 2018

SYSTEM NAME / COUNTY : **Belleview Oaks / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Belleview Oaks / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	86	86
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		94

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 76

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Belleview Oaks / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 94
2. Maximum number of ERCs * which can be served. 100
3. Present system connection capacity (in ERCs *) using existing lines. 100
4. Future connection capacity (in ERCs *) upon service area buildout. 100
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424621
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? YES
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		154	34	120	120
February		140	65	75	75
March		108	9	99	99
April		121	4	117	117
May		116	17	99	99
June		135	1	134	134
July		111	2	109	109
August		100	2	98	98
September		142	68	74	74
October		101	7	94	94
November		91	18	73	73
December		86	9	77	77
Total for Year	-	1,405	236	1,169	1,169

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,935,000 *	3,849	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 19,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Burks;Ocala Garden / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	23	23
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement, Compound or Turbine	5.0	2	10
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		33

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 128

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Burks;Ocala Garden / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 33
2. Maximum number of ERCs * which can be served. 38
3. Present system connection capacity (in ERCs *) using existing lines. 38
4. Future connection capacity (in ERCs *) upon service area buildout. 38
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421554
12. Water Management District Consumptive Use Permit # N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Country Walk / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		492	73	419	419
February		320	62	258	258
March		463	64	399	399
April		567	140	427	427
May		505	124	381	381
June		623	138	485	485
July		465	54	411	411
August		426	23	403	403
September		488	130	358	358
October		549	100	449	449
November		439	128	311	311
December		465	100	365	365
Total for Year	-	5,802	1,136	4,666	4,666

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,090,000 *	15,896	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Country Walk / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 66,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Country Walk / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	68	68
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		68

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 188

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Country Walk / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 68
2. Maximum number of ERCs * which can be served. 77
3. Present system connection capacity (in ERCs *) using existing lines. 77
4. Future connection capacity (in ERCs *) upon service area buildout. 77
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424657
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		439	280	159	159
February		634	487	147	147
March		1,115	962	153	153
April		245	55	190	190
May		258	108	150	150
June		258	44	214	214
July		250	57	193	193
August		174	10	164	164
September		214	36	178	178
October		333	67	266	266
November		332	172	160	160
December		199	8	191	191
Total for Year	-	4,451	2,286	2,165	2,165

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	14,235,000 *	12,195	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Eleven Oaks / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 39,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer: _____

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer: _____

Gravity (in GPM/square feet): _____ Manufacturer: _____

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Eleven Oaks / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	40	40
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		40

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 148

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Eleven Oaks / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 40
2. Maximum number of ERCs * which can be served. 43
3. Present system connection capacity (in ERCs *) using existing lines. 43
4. Future connection capacity (in ERCs *) upon service area buildout. 43
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424099
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		4,876	1,928	2,948	2,948
February		4,770	1,902	2,868	2,868
March		5,093	2,135	2,958	2,958
April		5,146	1,450	3,696	3,696
May		4,546	1,076	3,470	3,470
June		4,662	589	4,073	4,073
July		6,025	2,290	3,735	3,735
August		4,504	900	3,604	3,604
September		4,520	948	3,572	3,572
October		4,416	676	3,740	3,740
November		4,743	1,226	3,517	3,517
December		4,678	1,726	2,952	2,952
Total for Year	-	57,979	16,846	41,133	41,133

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	83,600,000	158,847	Ground Water
Well			

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 229041

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	668	668
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		676

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 167

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 676
2. Maximum number of ERCs * which can be served. 704
3. Present system connection capacity (in ERCs *) using existing lines. 704
4. Future connection capacity (in ERCs *) upon service area buildout. 704
5. Estimated annual increase in ERCs *. 3
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420340 & 3421314
12. Water Management District Consumptive Use Permit 3130
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Florida Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		541	41	500	500
February		417	64	353	353
March		871	130	741	741
April		944	438	506	506
May		663	204	459	459
June		615	99	516	516
July		585	146	439	439
August		589	107	482	482
September		585	180	405	405
October		586	148	438	438
November		630	172	458	458
December		512	177	335	335
Total for Year	-	7,538	1,906	5,632	5,632

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	11,000,000 *	20,652	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Florida Heights / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 30,137

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.):

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Florida Heights / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	105	105
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		105

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 147

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Florida Heights / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 105
2. Maximum number of ERCs * which can be served. 112
3. Present system connection capacity (in ERCs *) using existing lines. 112
4. Future connection capacity (in ERCs *) upon service area buildout. 112
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424031
12. Water Management District Consumptive Use Permit 3131
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		567	167	400	400
February		475	160	315	315
March		459	154	305	305
April		564	132	432	432
May		576	221	355	355
June		671	137	534	534
July		660	251	409	409
August		581	150	431	431
September		560	183	377	377
October		511	133	378	378
November		581	259	322	322
December		519	169	350	350
Total for Year	-	6,724	2,116	4,608	4,608

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,820,000	18,422	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 68,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	77	77
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		77

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 164

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Floyd Clark;Hodges;Northwoods / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 77
2. Maximum number of ERCs * which can be served. 77
3. Present system connection capacity (in ERCs *) using existing lines. 77
4. Future connection capacity (in ERCs *) upon service area buildout. 77
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420411
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,342	142	1,200	1,200
February		1,221	232	989	989
March		1,179	94	1,085	1,085
April		1,482	113	1,369	1,369
May		1,317	266	1,051	1,051
June		1,577	130	1,447	1,447
July		1,666	618	1,048	1,048
August		1,244	50	1,194	1,194
September		1,304	61	1,243	1,243
October		1,290	14	1,276	1,276
November		1,353	139	1,214	1,214
December		1,918	755	1,163	1,163
Total for Year	-	16,893	2,614	14,279	14,279

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	19,000,000 *	46,282	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Fore Oakes;Coventry;Ballard Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 52,055

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Fore Oakes;Coventry;Ballard Acres / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	230	230
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		230

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 170

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Fore Oakes;Coventry;Ballard Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 230
2. Maximum number of ERCs * which can be served. 246
3. Present system connection capacity (in ERCs *) using existing lines. 246
4. Future connection capacity (in ERCs *) upon service area buildout. 246
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424644
12. Water Management District Consumptive Use Permit 3013
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Hilltop / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,309	27	1,282	1,282
February		1,309	375	934	934
March		1,611	291	1,320	1,320
April		2,277	261	2,016	2,016
May		2,053	655	1,398	1,398
June		1,843	213	1,630	1,630
July		1,365	142	1,223	1,223
August		1,784	302	1,482	1,482
September		1,881	486	1,395	1,395
October		2,350	392	1,958	1,958
November		2,054	997	1,057	1,057
December		1,788	655	1,133	1,133
Total for Year	-	21,624	4,796	16,828	16,828

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,800,000	59,244	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Hilltop / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 18,630

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Hilltop / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	219	219
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		227

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 203

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Hilltop / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 227
2. Maximum number of ERCs * which can be served. 299
3. Present system connection capacity (in ERCs *) using existing lines. 299
4. Future connection capacity (in ERCs *) upon service area buildout. 299
5. Estimated annual increase in ERCs *. 5
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424662
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,979	107	1,872	1,872
February		2,703	1,312	1,391	1,391
March		1,705	9	1,696	1,696
April		1,865	138	1,727	1,727
May		2,271	793	1,478	1,478
June		2,041	307	1,734	1,734
July		2,159	443	1,716	1,716
August		2,159	173	1,986	1,986
September		1,832	271	1,561	1,561
October		2,377	445	1,932	1,932
November		1,500	49	1,451	1,451
December		1,938	383	1,555	1,555
Total for Year	-	24,529	4,430	20,099	20,099

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	30,842,500	67,203	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 84,500

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Little Lake Weir / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	422	422
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		425

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 130

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Little Lake Weir / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 425
2. Maximum number of ERCs * which can be served. 742
3. Present system connection capacity (in ERCs *) using existing lines. 742
4. Future connection capacity (in ERCs *) upon service area buildout. 742
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420761
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Oak Haven / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,204	247	957	957
February		1,086	227	859	859
March		1,041	325	716	716
April		1,172	298	874	874
May		859	150	709	709
June		986	71	915	915
July		1,179	347	832	832
August		1,404	371	1,033	1,033
September		1,271	256	1,015	1,015
October		1,850	891	959	959
November		3,003	1,755	1,248	1,248
December		2,038	999	1,039	1,039
Total for Year	-	17,093	5,937	11,156	11,156

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	18,000,000	46,830	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oak Haven / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 49,315

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Oak Haven / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	62	62
3/4"	Displacement	1.5		
1"	Displacement	2.5	6	15
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	4	20
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0	1	15
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	2	60
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		172

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 178

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Oak Haven / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 172
2. Maximum number of ERCs * which can be served. 199
3. Present system connection capacity (in ERCs *) using existing lines. 199
4. Future connection capacity (in ERCs *) upon service area buildout. 199
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424106
12. Water Management District Consumptive Use Permit 3080
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Oakhurst / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		611	85	526	526
February		540	50	490	490
March		633	72	561	561
April		784	147	637	637
May		955	336	619	619
June		810	54	756	756
July		592	125	467	467
August		714	126	588	588
September		731	8	723	723
October		688	94	594	594
November		652	73	579	579
December		602	153	449	449
Total for Year	-	8,312	1,323	6,989	6,989

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

* The master meter is failing to read low flows thus making the water pumped understated.
The company is is currently looking into replacing the master meter with a special meter to read low flows

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	13,000,000	22,773	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Oakhurst / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 35,616

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Oakhurst / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	109	109
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		109

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 176

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oakhurst / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 109
2. Maximum number of ERCs * which can be served. 109
3. Present system connection capacity (in ERCs *) using existing lines. 109
4. Future connection capacity (in ERCs *) upon service area buildout. 109
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424032
12. Water Management District Consumptive Use Permit 3132
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,698	370	1,328	1,328
February		1,604	433	1,171	1,171
March		1,471	180	1,291	1,291
April		1,722	305	1,417	1,417
May		1,630	287	1,343	1,343
June		1,887	295	1,592	1,592
July		1,846	361	1,485	1,485
August		1,788	64	1,724	1,724
September		1,765	491	1,274	1,274
October		2,030	529	1,501	1,501
November		1,774	358	1,416	1,416
December		1,459	314	1,145	1,145
Total for Year	-	20,674	3,987	16,687	16,687

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	39,600,000	56,641	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 108,493

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	368	368
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		368

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 124

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY: **Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 368
2. Maximum number of ERCs * which can be served. 581
3. Present system connection capacity (in ERCs *) using existing lines. 581
4. Future connection capacity (in ERCs *) upon service area buildout. 581
5. Estimated annual increase in ERCs *. 15
6. Is the utility required to have fire flow capacity? yes
   If so, how much capacity is required? 500 gmp for two hours
7. Attach a description of the fire fighting facilities. Hydrants
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP?
    c. When will construction begin?
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP?
11. Department of Environmental Protection ID # 3424651
12. Water Management District Consumptive Use Permit 3019
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance?

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,766	560	2,206	2,206
February		3,317	1,556	1,761	1,761
March		2,957	902	2,055	2,055
April		3,310	1,111	2,199	2,199
May		2,778	940	1,838	1,838
June		2,815	577	2,238	2,238
July		2,584	346	2,238	2,238
August		2,796	738	2,058	2,058
September		2,945	946	1,999	1,999
October		3,082	988	2,094	2,094
November		3,075	1,225	1,850	1,850
December		2,217	663	1,554	1,554
Total for Year	-	34,642	10,552	24,090	24,090

If water is purchased for resale, indicate the following:

Vendor Marion Utilities, Inc

Point of delivery Ocklawaha Terrace

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	60,955,000	94,910	Ground Water

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 167,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Ocklawaha;Sanctuary / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	348	348
3/4"	Displacement	1.5		
1"	Displacement	2.5	4	10
1 1/4"	Displacement, Compound or Turbine	3.8	2	8
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0	3	24
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		395

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 167

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 395
2. Maximum number of ERCs * which can be served. 588
3. Present system connection capacity (in ERCs *) using existing lines. 588
4. Future connection capacity (in ERCs *) upon service area buildout. 588
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420939
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		506	43	463	463
February		503	170	333	333
March		419	68	351	351
April		449	154	295	295
May		436	142	294	294
June		475	163	312	312
July		484	104	380	380
August		445	127	318	318
September		680	437	243	243
October		523	234	289	289
November		383	124	259	259
December		335	67	268	268
Total for Year	-	5,638	1,833	3,805	3,805

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,500,000 *	15,447	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 17,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	67	67
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		67

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 156

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 67
2. Maximum number of ERCs * which can be served. 70
3. Present system connection capacity (in ERCs *) using existing lines. 70
4. Future connection capacity (in ERCs *) upon service area buildout. 70
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421520
12. Water Management District Consumptive Use Permit 2996
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		480	48	432	432
February		136	15	121	121
March		112	2	110	110
April		168	4	164	164
May		121	5	116	116
June		103	3	100	100
July		90	5	85	85
August		103	3	100	100
September		105	6	99	99
October		131	49	82	82
November		89	3	86	86
December		91	4	87	87
Total for Year	-	1,729	147	1,582	1,582

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,665,000	4,737	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sun Resorts / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	32	32
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		32

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 135

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sun Resorts / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 32
2. Maximum number of ERCs * which can be served. 32
3. Present system connection capacity (in ERCs *) using existing lines. 32
4. Future connection capacity (in ERCs *) upon service area buildout. 32
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421201
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,458	70	1,388	1,388
February		1,170	214	956	956
March		2,431	1,192	1,239	1,239
April		1,393	94	1,299	1,299
May		1,253	33	1,220	1,220
June		1,338	122	1,216	1,216
July		1,031	14	1,017	1,017
August		1,493	108	1,385	1,385
September		1,208	203	1,005	1,005
October		1,197	473	724	724
November		1,333	63	1,270	1,270
December		1,209	74	1,135	1,135
Total for Year	-	16,514	2,660	13,854	13,854

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	15,000,000	45,244	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Whispering Sands / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 41,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Whispering Sands / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	72	72
3/4"	Displacement	1.5		
1"	Displacement	2.5	19	48
1 1/4"	Displacement, Compound or Turbine	3.8	35	133
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		258

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 147

YEAR OF REPORT
December 31, 2018

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 258
2. Maximum number of ERCs * which can be served. 861
3. Present system connection capacity (in ERCs *) using existing lines. 861
4. Future connection capacity (in ERCs *) upon service area buildout. 861
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424009
12. Water Management District Consumptive Use Permit 6850
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,041	601	1,440	1,440
February		1,578	643	935	935
March		1,589	248	1,341	1,341
April		1,704	538	1,166	1,166
May		1,649	591	1,058	1,058
June		1,913	449	1,464	1,464
July		2,248	1,022	1,226	1,226
August		1,659	417	1,242	1,242
September		1,916	731	1,185	1,185
October		1,984	197	1,787	1,787
November		1,370	79	1,291	1,291
December		1,433	190	1,243	1,243
Total for Year	-	21,084	5,706	15,378	15,378

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	56,200,000 *	57,764	Ground Water

* Annual

UTILITY NAME:	**Sunshine Utilities of Central Florida, Inc.**	**YEAR OF REPORT** December 31, 2018

SYSTEM NAME / COUNTY : **Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 153,973

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	206	206
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/14"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	1	30
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		244

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 173

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 244
2. Maximum number of ERCs * which can be served. 716
3. Present system connection capacity (in ERCs *) using existing lines. 646
4. Future connection capacity (in ERCs *) upon service area buildout. 646
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424691
12. Water Management District Consumptive Use Permit # 3093
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,881	509	1,372	1,372
February		2,262	1,060	1,202	1,202
March		2,339	1,062	1,277	1,277
April		2,649	1,215	1,434	1,434
May		2,139	505	1,634	1,634
June		2,488	820	1,668	1,668
July		2,047	308	1,739	1,739
August		2,026	296	1,730	1,730
September		2,194	468	1,726	1,726
October		2,257	541	1,716	1,716
November		1,639	179	1,460	1,460
December		1,983	653	1,330	1,330
Total for Year	-	25,904	7,616	18,288	18,288

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	120,888,000	51,169	Ground Water
Well	46,778,400	19,800	Ground Water

* Annual

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 459,360

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2018

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	257	257
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		257

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 195

YEAR OF REPORT
December 31, 2018

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 257
2. Maximum number of ERCs * which can be served. 271
3. Present system connection capacity (in ERCs *) using existing lines. 271
4. Future connection capacity (in ERCs *) upon service area buildout. 271
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421118
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WASTEWATER OPERATION SECTION

THE COMPANY DOES NOT PROVIDE WASTEWATER SERVICES

Reconciliation of Revenue to Regulatory Assessment Fee Revenue

Water Operations

Class A & B

Company:

For the Year Ended December 31, 2019

(a) Accounts	(b) Gross Water Revenues Per Sch. W-9	(c) Gross Water Revenues Per RAF Return	(d) Difference (b) - (c)
Gross Revenue: Unmetered Water Revenues (460)	$ 1,025,426	$ 1,025,426.54	$ .54
Total Metered Sales (461.1 - 461.5)			
Total Fire Protection Revenue (462.1 - 462.2)			
Other Sales to Public Authorities (464)			
Sales to Irrigation Customers (465)			
Sales for Resale (466)			
Interdepartmental Sales (467)			
Total Other Water Revenues (469 - 474)	76,416	77,280.60	865.40
Total Water Operating Revenue	$ 1,101,842	$ 1,102,707.14	$ 865.14
LESS: Expense for Purchased Water from FPSC-Regulated Utility			
Net Water Operating Revenues	$ 1,101,842	$ 1,102,707.14	$ 865.14

Explanations:

Instructions:

For the current year, reconcile the gross water revenues reported on Schedule W-9 with the gross water revenues reported on the company's regulatory assessment fee return. Explain any differences reported in column (d).

CLASS "A" OR "B"

WATER AND/OR WASTEWATER UTILITIES
(Gross Revenue of More Than $200,000 Each)

ANNUAL REPORT

OF

Sunshine Utilities of Central Florida, Inc.
Exact Legal Name of Respondent

363-W
Certificate Number(s)

Submitted To The

STATE OF FLORIDA

PUBLIC SERVICE COMMISSION

FOR THE

YEAR ENDED December 31, 2020

Form PSC/ECR 003-W (Rev. 12/99)

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GENERAL INSTRUCTIONS

1. Prepare this report in conformity with the 1996 National Association of Regulatory Utility Commissioners Uniform System of Accounts for Water and/or Wastewater Utilities (USOA).

2. Interpret all accounting words and phrases in accordance with the USOA.

3. Complete each question fully and accurately, even if it has been answered in a previous annual report. Enter the word "None" where it truly and completely states the fact.

4. For any question, section, or page which is not applicable to the respondent, enter the words "Not Applicable". Do not omit any pages.

5. Where dates are called for, the month and day should be stated as well as the year.

6. All schedules requiring dollar entries should be rounded to the nearest dollar unless otherwise specifically indicated.

7. Complete this report by means which result in a permanent record, such as by computer or typewriter.

8. If there is not enough room on any schedule, an additional page or pages may be added; provided the format of the added schedule matches the format of the schedule with not enough room. Such a schedule should reference the appropriate schedules, state the name of the utility, and state the year of the report.

9. If it is necessary or desirable to insert additional statements for the purpose of further explanation of schedules, such statement should be made at the bottom of the page or an additional page inserted. Any additional pages should state the name of the utility, the year of the report, and reference the appropriate schedule.

10. For water and wastewater utilities with more than one rate group and/or system, water and wastewater pages should be completed for each rate group and/or system group. These pages should be grouped together and tabbed by rate group and/or system.

11. All other water and wastewater operations not regulated by the Commission and other regulated industries should be reported as "Other than Reporting Systems".

12. Financial information for multiple systems charging rates which are covered under the same tariff should be reported as one system. However, the engineering data must be reported by individual system.

13. For water and wastewater utilities with more than one system, one (1) copy of workpapers showing the consolidation of systems for the operating sections, should be filed with the annual report.

14. The report should be filled out in quadruplicate and the original and two copies returned by March 31, of the year following the date of the report. The report should be returned to:

Florida Public Service Commission
Division of Economic Regulation
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

The fourth copy should be retained by the utility.

TABLE OF CONTENTS

TABLE OF CONTENTS

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EXECUTIVE SUMMARY

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UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

CERTIFICATION OF ANNUAL REPORT

I HEREBY CERTIFY, to the best of my knowledge and belief:

YES	NO		
X		1.	The utility is in substantial compliance with the Uniform System of Accounts prescribed by the Florida Public Service Commission.
X		2.	The utility is in substantial compliance with all applicable rules and orders of the Florida Public Service Commission.
X		3.	There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices that could have a material effect on the the financial statement of the utility.
X		4.	The annual report fairly represents the financial condition and results of operations of the respondent for the period presented and other information and statements presented in the the report as to the business affairs of the respondent are true, correct and complete for the period for which it represents.

Items Certified

1.	2.	3.	4.
X	X	X	X

1.	2.	3.	4.

(Signature of Chief Executive Officer of the utility) *

(Signature of Chief Financial Officer of the utility) *

* Each of the four items must be certified YES or NO. Each item need not be certified by both officers. The items being certified by the officer should be indicated in the appropriate area to the left of the signature.

NOTICE: Section 837.06, Florida Statutes, provides that any person who knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his duty shall be guilty of a misdemeanor of the second degree.

ANNUAL REPORT OF

YEAR OF REPORT
December 31, 2020

Sunshine Utilities of Central Florida, Inc. County: Marion
(Exact Name of Utility)

List below the exact mailing address of the utility for which normal correspondence should be sent:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228
E Mail Address:
WEB Site:

Sunshine State One-Call of Florida, Inc. Member Number SU-1134

Name and address of person to whom correspondence concerning this report should be addressed:
John Q. Adams II, CPA
Adams & Company, P.A.
2637 E Atlantic Blvd #43374
Pompano Beach, FL 33062
Telephone: (352) 804-2291

List below the address of where the utility's books and records are located:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228

List below any groups auditing or reviewing the records and operations:

Date of original organization of the utility: September 01, 1974

Check the appropriate business entity of the utility as filed with the Internal Revenue Service

Individual	Partnership	Sub S Corporation	1120 Corporation
		X	

List below every corporation or person owning or holding directly or indirectly 5% or more of the voting securities of the utility:

	Name	Percent Ownership
1.	"Hodges Family Trust - Christmas" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
2.	"Hodges Family Trust - Hodges" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
3.	"Hodges Family Trust - Rosin" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
4.	"Hodges Family Trust - Stone" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
5.	Trust split into four separate trust pursuant to QSST election IRC 1361 while maintaining	
6.	control by the co-trustees for the sole beneficiary of Clarise Hodges.	
7.		
8.		
9.		
10.		

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

DIRECTORY OF PERSONNEL WHO CONTACT THE FLORIDA PUBLIC SERVICE COMMISSION

NAME OF COMPANY REPRESENTATIVE (1)	TITLE OR POSITION (2)	ORGANIZATIONAL UNIT TITLE (3)	USUAL PURPOSE FOR CONTACT WITH FPSC
Dewaine W. Christmas	President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Pamela N. Christmas	Secretary	Sunshine Utilities of Central Florida, Inc	All Utility Matters
John Q. Adams, II	CPA	Adams & Company, P.A. 352-804-2291	Rate and Accounting Matters
James H Hodges, Jr.	Vice President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Jane M. Rop	Treasurer	Sunshine Utilities of Central Florida, Inc	All Utility Matters

(1) Also list appropriate legal counsel, accountants and others who may not be on general payroll.
(2) Provide individual telephone numbers if the person is not normally reached at the company.
(3) Name of company employed by if not on general payroll.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

COMPANY PROFILE

Provide a brief narrative company profile which covers the following areas:

A. Brief company history.
B. Public services rendered.
C. Major goals and objectives.
D. Major operating divisions and functions.
E. Current and projected growth patterns.
F. Major transactions having a material effect on operations.

A. The company was organized to provide potable water service to various subdivisions in Marion and Citrus Counties

B. The company provides water treatement and distribution services to customers in its certicated area.

C. The primary goal of the Company is to continue rendering quality service to its existing customers.

D. The Company provides water treatement and distribution services, only in Marion and Citrus Counties.

E. The Company expects to continue an average growth rate of approximately 1%.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

PARENT / AFFILIATE ORGANIZATION CHART

Current as of December 31, 2020

Complete below an organizational chart that show all parents, subsidiaries and affiliates of the utility.
The chart must also show the relationship between the utility and affiliates listed on E-7, E-10(a) and E-10(b).

Sunshine Utilities of Central Florida, Inc

Sunshine Utilities
(Marion County Division)

Heights Water Company
(Citrus County Division)
(NOT REGULATED BY PSC)

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

COMPENSATION OF OFFICERS

For each officer, list the time spent on respondent as an officer compared to time spent on total business activities and the compensation received as an officer from the respondent.

NAME (a)	TITLE (b)	% OF TIME SPENT AS OFFICER OF THE UTILITY (c)	OFFICERS' COMPENSATION (d)
Dewaine W. Christmas	President	100%	$ 63,451
James H. Hodges, Jr.	Vice President	100%	64,013
Pamela N. Christmas	Secretary	100%	48,826
Jane M. Rop	Treasurer	100%	47,764

COMPENSATION OF DIRECTORS

For each director, list the number of director meetings attended by each director and the compensation received as a director from the respondent.

NAME (a)	TITLE (b)	NUMBER OF DIRECTORS' MEETINGS ATTENDED (c)	DIRECTORS' COMPENSATION (d)
Dewaine W. Christmas	Director	100%	$ None
James H. Hodges, Jr.	Director	100%	None

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

BUSINESS CONTRACTS WITH OFFICERS, DIRECTORS AND AFFILIATES

List all contracts, agreements, or other business arrangements* entered into during the calendar year (other than compensation related to position with Respondents) between the Respondent and officer and director listed on page E-6. In addition, provide the same information with respect to professional services for each firm, partnership, or organization with which the officer or director is affiliated.

NAME OF OFFICER, DIRECTOR OR AFFILIATE (a)	IDENTIFICATION OF SERVICE OR PRODUCT (b)	AMOUNT (c)	NAME AND ADDRESS OF AFFILIATED ENTITY (d)
None		$ -	

* Business Agreement, for this schedule, shall mean any oral or written business deal which binds the concerned parties for products or services during the reporting year or future years. Although the Respondent and/or other companies will benefit from the arrangement, the officer or director is, however, acting on his behalf or for the benefit of other companies or persons.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

AFFILIATION OF OFFICERS AND DIRECTORS

For each of the officials listed on page E-6, list the principal occupation or business affiliations or connections with any other business or financial organizations, firms, or partnerships. For purposes of this part, an official will be considered to have an affiliation with any business or financial organization, firm or partnership in which he is an officer, director, trustee, partner, or a person exercising similar functions.

NAME (a)	PRINCIPAL OCCUPATION OR BUSINESS AFFILIATION (b)	AFFILIATION OR CONNECTION (c)	NAME AND ADDRESS OF AFFILIATION OR CONNECTION (d)
None			

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

BUSINESSES WHICH ARE A BY-PRODUCT, COPRODUCT OR JOINT-PRODUCT RESULT OF PROVIDING WATER OR WASTEWATER SERVICE

Complete the following for any business which is conducted as a byproduct, coproduct, or joint product as a result of providing water and / or wastewater service. This would include any business which requires the use of utility land and facilities. Examples of these types of businesses would be orange groves, nurseries, tree farms, fertilizer manufacturing, etc. This would not include any business for which the assets are properly included in Account 121 - Nonutility Property along with the associated revenue and expenses segregated out as nonutility also.

	ASSETS		REVENUES		EXPENSES	
BUSINESS OR SERVICE CONDUCTED (a)	BOOK COST OF ASSETS (b)	ACCOUNT NUMBER (c)	REVENUES GENERATED (d)	ACCOUNT NUMBER (e)	EXPENSES INCURRED (f)	ACCOUNT NUMBER (g)
None	$		$		$	

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

BUSINESS TRANSACTIONS WITH RELATED PARTIES

List each contract, agreement, or other business transaction exceeding a cumulative amount of $500 in any on year, entered into between the Respondent and a business or financial organization, firm, or partnership named on pages E-2 and E-6, identifying the parties, amounts, dates and product, and asset, or service involved.

Part I. Specific Instructions: Services and Products Received or Provided

1. Enter in this part all transactions involving services and products received or provided.

2. Below are some types of transactions to include:
   - -management, legal and accounting services
   - -computer services
   - -engineering & construction services
   - -repairing and servicing of equipment
   - -material and supplies furnished
   - -leasing of structures, land, and equipment
   - -rental transactions
   - -sale, purchase or transfer of various products

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION SERVICE AND/OR NAME OF PRODUCT (b)	CONTRACT OR AGREEMENT EFFECTIVE DATES (c)	ANNUAL CHARGES (P)urchased (S)old (d)	ANNUAL CHARGES AMOUNT (e)
CH Utility Holdings, LLC	Lot Lease	7/10/2014		$ 104,840
CH Office Holdings, LLC	Office Lease	7/10/2014		9,670

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

BUSINESS TRANSACTIONS WITH RELATED PARTIES (Cont'd)

Part II. Specific Instructions: Sale, Purchase and Transfer of Assets

1. Enter in this part all transactions relating to the purchase, sale, or transfer of assets.

2 Below are examples of some types of transactions to include:
- -purchase, sale or transfer of equipment
- -purchase, sale or transfer of land and structures
- -purchase, sale or transfer of securities
- -noncash transfers of assets
- -noncash dividends other than stock dividends
- -write-off of bad debts or loans

3. The columnar instructions follow:

(a) Enter name of related party or company.
(b) Describe briefly the type of assets purchased, sold or transferred.
(c) Enter the total received or paid. Indicate purchase with "P" and sale with "S".
(d) Enter the net book value for each item reported.
(e) Enter the net profit or loss for each item reported. (column (c) - column (d))
(f) Enter the fair market value for each item reported. In space below or in a supplemental schedule, describe the basis used to calculate fair market value.

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION OF ITEMS (b)	SALE OR PURCHASE PRICE (c)	NET BOOK VALUE (d)	GAIN OR LOSS (e)	FAIR MARKET VALUE (f)
None		$	$	$	$

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FINANCIAL SECTION

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	UTILITY PLANT			
101-106	Utility Plant	F-7	$ 3,452,046	$ 3,432,374
108-110	Less: Accumulated Depreciation and Amortization	F-8	2,690,987	2,692,153
	Net Plant		$ 761,059	$ 740,221
114-115	Utility Plant Acquisition adjustment (Net)	F-7	17,903	17,157
116 *	Other Utility Plant Adjustments			
	Total Net Utility Plant		$ 778,962	$ 757,378
	OTHER PROPERTY AND INVESTMENTS			
121	Nonutility Property	F-9	$ 0	$ 0
122	Less: Accumulated Depreciation and Amortization		0	0
	Net Nonutility Property		$ 0	$ 0
123	Investment in Associated Companies	F-10		
124	Utility Investments	F-10		
125	Other Investments	F-10		
126-127	Special Funds	F-10		
	Total Other Property & Investments		$ 0	$ 0
	CURRENT AND ACCRUED ASSETS			
131	Cash		$ 11,158	$ 51,214
132	Special Deposits	F-9	67,257	64,596
133	Other Special Deposits	F-9		0
134	Working Funds			
135	Temporary Cash Investments			
141-144	Accounts and Notes Receivable, Less Accumulated Provision for Uncollectible Accounts	F-11	29,860	21,259
145	Accounts Receivable from Associated Companies	F-12		
146	Notes Receivable from Associated Companies	F-12		
151-153	Material and Supplies			
161	Stores Expense			
162	Prepayments		596	705
171	Accrued Interest and Dividends Receivable			
172 *	Rents Receivable			
173 *	Accrued Utility Revenues			
174	Miscellaneous Current and Accrued Assets	F-12		
	Total Current and Accrued Assets		$ 108,871	$ 137,774

* Not Applicable for Class B Utilities

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED DEBITS			
181	Unamortized Debt Discount & Expense	F-13	$	$
182	Extraordinary Property Losses	F-13		
183	Preliminary Survey & Investigation Charges		-	-
184	Clearing Accounts		-	-
185 *	Temporary Facilities		-	-
186	Miscellaneous Deferred Debits	F-14	33,560	19,937
187 *	Research & Development Expenditures		-	-
190	Accumulated Deferred Income Taxes		-	-
	Total Deferred Debits		$ 33,560	$ 19,937
	TOTAL ASSETS AND OTHER DEBITS		$ 921,393	$ 915,089

* Not Applicable for Class B Utilities

NOTES TO THE BALANCE SHEET

The space below is provided for important notes regarding the balance sheet.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	EQUITY CAPITAL			
201	Common Stock Issued	F-15	$ 100	$ 100
204	Preferred Stock Issued	F-15	-	-
202,205 *	Capital Stock Subscribed			
203,206 *	Capital Stock Liability for Conversion			
207 *	Premium on Capital Stock			
209 *	Reduction in Par or Stated Value of Capital Stock			
210 *	Gain on Resale or Cancellation of Reacquired Capital Stock			
211	Other Paid - In Capital		474,492	474,492
212	Discount On Capital Stock			
213	Capital Stock Expense			
214-215	Retained Earnings	F-16	(358,771)	(335,074)
216	Reacquired Capital Stock			
218	Proprietary Capital (Proprietorship and Partnership Only)			
	Total Equity Capital		$ 115,821	$ 139,518
	LONG TERM DEBT			
221	Bonds	F-15		
222 *	Reacquired Bonds			
223	Advances from Associated Companies	F-17	-	-
224	Other Long Term Debt	F-17	24,789	37,628
	Total Long Term Debt		$ 24,789	$ 37,628
	CURRENT AND ACCRUED LIABILITIES			
231	Accounts Payable		99,560	83,591
232	Notes Payable	F-18	112,055	110,511
233	Accounts Payable to Associated Companies	F-18	-	-
234	Notes Payable to Associated Companies	F-18	-	-
235	Customer Deposits		66,728	64,280
236	Accrued Taxes	W/S-3	-	1,841
237	Accrued Interest	F-19	(360)	(444)
238	Accrued Dividends		-	-
239	Matured Long Term Debt			
240	Matured Interest			
241	Miscellaneous Current & Accrued Liabilities	F-20	29,220	30,685
	Total Current & Accrued Liabilities		$ 307,203	$ 290,464

* Not Applicable for Class B Utilities

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED CREDITS			
251	Unamortized Premium On Debt	F-13	$ -	$ -
252	Advances For Construction	F-20	-	-
253	Other Deferred Credits	F-21	-	-
255	Accumulated Deferred Investment Tax Credits			
	Total Deferred Credits		$ -	$ -
	OPERATING RESERVES			
261	Property Insurance Reserve		$	$
262	Injuries & Damages Reserve			
263	Pensions and Benefits Reserve			
265	Miscellaneous Operating Reserves			
	Total Operating Reserves		$ -	$ -
	CONTRIBUTIONS IN AID OF CONSTRUCTION			
271	Contributions in Aid of Construction	F-22	$ 2,015,232	$ 2,021,509
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	(1,541,652)	(1,574,030)
	Total Net C.I.A.C.		$ 473,580	$ 447,479
	ACCUMULATED DEFERRED INCOME TAXES			
281	Accumulated Deferred Income Taxes - Accelerated Depreciation		$	$
282	Accumulated Deferred Income Taxes - Liberalized Depreciation			
283	Accumulated Deferred Income Taxes - Other			
	Total Accumulated Deferred Income Tax		$ -	$ -
	TOTAL EQUITY CAPITAL AND LIABILITIES		$ 921,393	$ 915,089

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

COMPARATIVE OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR * (e)
	UTILITY OPERATING INCOME			
400	Operating Revenues	F-3(b)	$ 1,133,299	$ 1,137,310
469, 530	Less: Guaranteed Revenue and AFPI	F-3(b)	-	-
	Net Operating Revenues		$ 1,133,299	$ 1,137,310
401	Operating Expenses	F-3(b)	$ 1,000,126	$ 977,997
403	Depreciation Expense:	F-3(b)	$ 90,951	$ 75,218
	Less: Amortization of CIAC	F-22	48,884	53,116
	Net Depreciation Expense		$ 42,067	$ 22,102
406	Amortization of Utility Plant Acquisition Adjustment	F-3(b)	387	746
407	Amortization Expense (Other than CIAC)	F-3(b)	-	-
408	Taxes Other Than Income	W/S-3	99,468	99,232
409	Current Income Taxes	W/S-3	-	-
410.10	Deferred Federal Income Taxes	W/S-3	-	-
410.11	Deferred State Income Taxes	W/S-3	-	-
411.10	Provision for Deferred Income Taxes - Credit	W/S-3	-	-
412.10	Investment Tax Credits Deferred to Future Periods	W/S-3	-	-
412.11	Investment Tax Credits Restored to Operating Income	W/S-3	-	-
	Utility Operating Expenses		$ 1,142,048	$ 1,100,077
	Net Utility Operating Income		$ (8,749)	$ 37,233
469, 530	Add Back: Guaranteed Revenue and AFPI	F-3(b)	-	-
413	Income From Utility Plant Leased to Others		-	-
414	Gains (losses) From Disposition of Utility Property		-	(15,372)
420	Allowance for Funds Used During Construction		-	-
	Total Utility Operating Income [Enter here and on Page F-3(c)]		$ (8,749)	$ 21,861

* For each account, Column e should agree with Columns f, g and h on F-3(b)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

COMPARATIVE OPERATING STATEMENT (Cont'd)

WATER SCHEDULE W-3 * (f)	WASTEWATER SCHEDULE S-3 * (g)	OTHER THAN REPORTING SYSTEMS (h)
$ 1,104,634	$ -	$ 32,676 *
-	$ -	
$ 1,104,634	$ -	$ 32,676
$ 944,780	$ -	$ 33,217 *
72,623	$ -	2,595 *
45,900	$ -	7,216 *
$ 26,723	$ -	$ (4,621)
746	$ -	- *
-	$ -	
96,664	$ -	2,568 *
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
$ 1,068,913	$ -	$ 31,164
$ 35,721	$ -	$ 1,512
-	$ -	
-	$ -	
(2,279)	$ -	(13,093)
-	$ -	
$ 33,442	$ -	$ (11,581)

* Total of Schedules W-3 / S-3 for all rate groups.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

COMPARATIVE OPERATING STATEMENT (Cont'd)

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
Total Utility Operating Income [from page F-3(a)]			$ (8,749)	$ 21,861
	OTHER INCOME AND DEDUCTIONS			
415	Revenues-Merchandising, Jobbing, and Contract Deductions		$	$
416	Costs & Expenses of Merchandising Jobbing, and Contract Work			
419	Interest and Dividend Income		-	-
421	Nonutility Income		512	9,186
426	Miscellaneous Nonutility Expenses		-	-
	Total Other Income and Deductions		$ 512	$ 9,186
	TAXES APPLICABLE TO OTHER INCOME			
408.20	Taxes Other Than Income		$	$
409.20	Income Taxes			
410.20	Provision for Deferred Income Taxes			
411.20	Provision for Deferred Income Taxes - Credit			
412.20	Investment Tax Credits - Net			
412.30	Investment Tax Credits Restored to Operating Income			
	Total Taxes Applicable To Other Income		$ -	$ -
	INTEREST EXPENSE			
427	Interest Expense	F-19	$ (9,214)	$ (7,350)
428	Amortization of Debt Discount & Expense	F-13		
429	Amortization of Premium on Debt	F-13		
	Total Interest Expense		$ (9,214)	$ (7,350)
	EXTRAORDINARY ITEMS			
433	Extraordinary Income		$	$
434	Extraordinary Deductions			
409.30	Income Taxes, Extraordinary Items			
	Total Extraordinary Items		$ -	$ -
	NET INCOME		$ (17,451)	$ 23,697

Explain Extraordinary Income:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF YEAR END RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	WATER UTILITY (d)	WASTEWATER UTILITY (e)
101	Utility Plant In Service	F-7	$ 3,424,265	$ -
	Less: Nonused and Useful Plant (1)		57,604	
108	Accumulated Depreciation	F-8	2,686,159	-
110	Accumulated Amortization	F-8	-	-
271	Contributions in Aid of Construction	F-22	2,021,509	-
252	Advances for Construction	F-20	-	
	Subtotal		$ (1,341,007)	$ -
272	Add: Accumulated Amortization of Contributions in Aid of Construction	F-22	1,574,030	-
	Subtotal		$ 233,023	$ -
	Plus or Minus:			
114	Acquisition Adjustments (2)	F-7	29,838	-
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(12,681)	-
	Working Capital Allowance (3)		118,098	-
	Other (Specify):			
105	Construction in Process		-	-
	RATE BASE		$ 368,278	$ -
	NET UTILITY OPERATING INCOME		$ 33,442	$ -
	ACHIEVED RATE OF RETURN (Operating Income / Rate Base)		9.08%	

NOTES :

(1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF CURRENT COST OF CAPITAL
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING (1)

CLASS OF CAPITAL (a)	DOLLAR AMOUNT (2) (b)	PERCENTAGE OF CAPITAL (c)	ACTUAL COST RATES (3) (d)	WEIGHTED COST (c x d) (e)
Common Equity	$ 100	-		
Preferred Stock		-		
Long Term Debt		-		
Customer Deposits		-		
Tax Credits - Zero Cost		-		
Tax Credits - Weighted Cost		-		
Deferred Income Taxes		-		
Other (Explain)		-		
		-		
Total	$ 100			

(1) If the utility's capital structure is not used, explain which capital structure is used.

(2) Should equal amounts on Schedule F-6, Column (g).

(3) Mid-point of the last authorized Return On Equity or current leverage formula if none has been established.

Must be calculated using the same methodology used in the last rate proceeding using current annual report year end amounts and cost rates.

APPROVED RETURN ON EQUITY

Current Commission Return on Equity:	9.13
Commission order approving Return on Equity:	12-0357-PAA-WU

APPROVED AFUDC RATE

COMPLETION ONLY REQUIRED IF AFUDC WAS CHARGED DURING YEAR

Current Commission Approved AFUDC rate:	9.13%
Commission order approving AFUDC rate:	12-0357-PPA-WU

If any utility capitalized any charge in lieu of AFUDC (such as interest only), state the basis of the charge, an explanation as to why AFUDC was not charged and the percentage capitalized.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SCHEDULE OF CAPITAL STRUCTURE ADJUSTMENTS
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING

CLASS OF CAPITAL (a)	PER BOOK BALANCE (b)	NON-UTILITY ADJUSTMENTS (c)	NON-JURISDICTIONAL ADJUSTMENTS (d)	OTHER (1) ADJUSTMENTS SPECIFIC (e)	OTHER (1) ADJUSTMENTS PRO RATA (f)	CAPITAL STRUCTURE (g)
Common Equity	$ 100	$	$	$	$	$
Preferred Stock						
Long Term Debt						
Customer Deposits						
Tax Credits - Zero Cost						
Tax Credits - Weighted Cost						
Deferred Inc. Taxes						
Other (Explain)						
Total	$ 100	$	$	$	$	$

(1) Explain below all adjustments made in Columns (e) and (f):

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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UTILITY PLANT
ACCOUNTS 101 - 106

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
	Plant Accounts:				
101	Utility Plant In Service	$ 3,424,265	$	$ 8,109	$ 3,432,374
102	Utility Plant Leased to Other				-
103	Property Held for Future Use				-
104	Utility Plant Purchased or Sold				-
105	Construction Work in Progress	-			-
106	Completed Construction Not Classified				-
	Total Utility Plant	$ 3,424,265	$ -	$ 8,109	$ 3,432,374

UTILITY PLANT ACQUISITION ADJUSTMENTS
ACCOUNTS 114 AND 115

Report each acquisition adjustment and related accumulated amortization separately.
For any acquisition adjustments approved by the Commission, include the Order Number.

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
114	Acquisition Adjustment Heights Water Company	$ 10,000			$ 10,000
	Acq Adj - Sandy Acres	39,523			39,523
	Acq Adj - Quail Run	(19,685)			(19,685)
	Acq Adj - Comm. Water			-	-
					-
Total Plant Acquisition Adjustments		$ 29,838	$ -	$ -	$ 29,838
115	Accumulated Amortization AA Heights Water Company	$ 4,250			$ 4,250
	AA Acq Adj - Sandy Acres	16,797			16,797
	AA Acq Adj - Quail Run	(8,366)			(8,366)
	AA Acq Adj - Comm. Water			-	-
					-
Total Accumulated Amortization		$ 12,681	$ -	$ -	$ 12,681
Net Acquisition Adjustments		$ 17,157	$ -	$ -	$ 17,157

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCUMULATED DEPRECIATION (ACCT. 108) AND AMORTIZATION (ACCT. 110)

DESCRIPTION (a)	WATER (b)	WASTEWATER (c)	OTHER THAN REPORTING SYSTEMS (d)	TOTAL (e)
ACCUMULATED DEPRECIATION Account 108				
Balance first of year	$ 2,634,312	$	$ 56,674	$ 2,690,986
Credit during year:				
Accruals charged to:				
Account 108.1 (1)	$ 72,623	$	$ 2,595	$ 75,218
Account 108.2 (2)				-
Account 108.3 (2)				-
Other Accounts (specify):				-
				-
				-
Salvage	-			-
Other Credits (Specify):	-			-
as per auditor auditor adjustment				-
Total Credits	$ 72,623	$ -	$ 2,595	$ 75,218
Debits during year:				
Book cost of plant retired	20,776		53,275	74,051
Cost of Removal				-
Other Debits (specify):				-
				-
				-
Total Debits	$ 20,776	$ -	$ 53,275	$ 74,051
Balance end of year	$ 2,686,159	$ -	$ 5,994	$ 2,692,153
ACCUMULATED AMORTIZATION Account 110				
Balance first of year	$	$	$	$ -
Credit during year:				
ruals charged to:				
	$	$	$	$ -
Account 110.2 (3)				-
Other Accounts (specify):				-
				-
Total credits	$ -	$ -	$ -	$ -
Debits during year:				
Book cost of plant retired				-
Other debits (specify):				-
				-
Total Debits	$ -	$ -	$ -	$ -
Balance end of year	$ -	$ -	$ -	$ -

(1) Account 108 for Class B utilities.

(2) Not applicable for Class B utilities.

(3) Account 110 for Class B utilities.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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REGULATORY COMMISSION EXPENSE
AMORTIZATION OF RATE CASE EXPENSE (ACCOUNTS 666 AND 766)

DESCRIPTION OF CASE (DOCKET NO.) (a)	EXPENSE INCURRED DURING YEAR (b)	CHARGED OFF DURING YEAR	
		ACCT. (d)	AMOUNT (e)
100048-WU	$ -	0	$
Total	$		$

NONUTILITY PROPERTY (ACCOUNT 121)

Report separately each item of property with a book cost of $25,000 or more included in Account 121.
Other Items may be grouped by classes of property.

DESCRIPTION (a)	BEGINNING YEAR (b)	ADDITIONS (c)	REDUCTIONS (d)	ENDING YEAR BALANCE (e)
None	$	$	$	$
Total Nonutility Property	$ -	$ -	$ -	$ -

SPECIAL DEPOSITS (ACCOUNTS 132 AND 133)

Report hereunder all special deposits carried in Accounts 132 and 133.

DESCRIPTION OF SPECIAL DEPOSITS (a)	YEAR END BOOK COST (b)
SPECIAL DEPOSITS (Account 132):	
Customer Deposits	$ 64,596
Total Special Deposits	$ 64,596
OTHER SPECIAL DEPOSITS (Account 133):	
Interim Rate Reserve	$ -
Health Insurance Co-Pay	-
Total Other Special Deposits	$ -

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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INVESTMENTS AND SPECIAL FUNDS
ACCOUNTS 123 - 127

Report hereunder all investments and special funds carried in Accounts 123 through 127.

DESCRIPTION OF SECURITY OR SPECIAL FUND (a)	FACE OR PAR VALUE (b)	YEAR END BOOK COST (c)
INVESTMENT IN ASSOCIATED COMPANIES (Account 123):	$	$
None		
Total Investment in Associated Companies		$
UTILITY INVESTMENTS (Account 124):	$	$
None		
Total Utility Investment		$
OTHER INVESTMENTS (Account 125):	$	$
None		
Total Other Investment		$
SPECIAL FUNDS (Class A Utilities: Accounts 126 and 127; Class B Utilities: Account 127):		$
None		
Total Special Funds		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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ACCOUNTS AND NOTES RECEIVABLE - NET
ACCOUNTS 141 - 144

Report hereunder all accounts and notes receivable included in Accounts 141, 142, and 144. Amounts included in Amounts included in Accounts 142 and 144 should be listed individually.

DESCRIPTION (a)		TOTAL (b)
CUSTOMER ACCOUNTS RECEIVABLE (Account 141):		
Water	$ 19,242	
Wastewater		
Other		
Total Customer Accounts Receivable		$ 19,242
OTHER ACCOUNTS RECEIVABLE (Account 142):		
Employee accounts receivable	$ 2,017	
Total Other Accounts Receivable		$ 2,017
NOTES RECEIVABLE (Account 144):		
	$	
None		
Total Notes Receivable		$ -
Total Accounts and Notes Receivable		$ 21,259
ACCUMULATED PROVISION FOR UNCOLLECTIBLE ACCOUNTS (Account 143)		
Balance first of year	$	
Add: Provision for uncollectibles for current year	$	
Collection of accounts previously written off		
Utility Accounts		
Others		
Total Additions	$	
Deduct accounts written off during year:		
Utility Accounts		
Others		
Total accounts written off	$	
Balance end of year		$ -
TOTAL ACCOUNTS AND NOTES RECEIVABLE - NET		$ 21,259

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCOUNTS RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 145

Report each account receivable from associated companies separately.

DESCRIPTION (a)	TOTAL (b)
None	$
Total	$

NOTES RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 146

Report each note receivable from associated companies separately.

DESCRIPTION (a)	INTEREST RATE (b)	TOTAL (c)
None	%	$
Total		$

MISCELLANEOUS CURRENT AND ACCRUED ASSETS
ACCOUNT 174

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
None	$
Total Miscellaneous Current and Accrued Liabilities	$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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UNAMORTIZED DEBT DISCOUNT AND EXPENSE AND PREMIUM ON DEBT
ACCOUNTS 181 AND 251

Report the net discount and expense or premium separately for each security issue.

DESCRIPTION (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
UNAMORTIZED DEBT DISCOUNT AND EXPENSE (Account 181):		
None		
Total Unamortized Debt Discount and Expense	$	$
UNAMORTIZED PREMIUM ON DEBT (Account 251):		
None		
Total Unamortized Premium on Debt	$	$ -

EXTRAORDINARY PROPERTY LOSSES
ACCOUNT 182

Report each item separately.

DESCRIPTION (a)	TOTAL (b)
None	
Total Extraordinary Property Losses	$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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MISCELLANEOUS DEFERRED DEBITS
ACCOUNT 186

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
DEFERRED RATE CASE EXPENSE (Class A Utilities: Account 186.1)		
	$	$ -
Total Deferred Rate Case Expense	$ -	$ -
OTHER DEFERRED DEBITS (Class A Utilities: Account 186.2):		
3 year well maintenance & testing	$ 9,424	6,383
5 year tank testing	4,683	13,554
Total Other Deferred Debits	$ 14,107	$ 19,937
REGULATORY ASSETS (Class A Utilities: Account. 186.3):		
	$	$
Total Regulatory Assets	$ -	$ -
TOTAL MISCELLANEOUS DEFERRED DEBITS	$ 14,107	$ 19,937

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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CAPITAL STOCK
ACCOUNTS 201 AND 204*

DESCRIPTION (a)	RATE (b)	TOTAL (c)
COMMON STOCK		
Par or stated value per share	%	$ 1
Shares authorized		7,500
Shares issued and outstanding		100
Total par value of stock issued	%	$ 100
Dividends declared per share for year	%	$
PREFERRED STOCK		
Par or stated value per share	None %	$
Shares authorized		
Shares issued and outstanding		
Total par value of stock issued	%	$
Dividends declared per share for year	%	$

* Account 204 not applicable for Class B utilities.

BONDS
ACCOUNT 221

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total			$

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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STATEMENT OF RETAINED EARNINGS

1. Dividends should be shown for each class and series of capital stock. Show amounts as dividends per share.
2. Show separately the state and federal income tax effect of items shown in Account No. 439.

ACCT. NO. (a)	DESCRIPTION (b)	AMOUNTS (c)
215	Unappropriated Retained Earnings:	
	Balance Beginning of Year	$ (358,771)
	Changes to Account:	
439	Adjustments to Retained Earnings (requires Commission approval prior to use):	
	Credits:	$ -
	Total Credits:	$ -
	Debits:	$
	Total Debits:	$ -
435	Balance Transferred from Income	$ 23,697
436	Appropriations of Retained Earnings:	
	Total Appropriations of Retained Earnings	$ -
	Dividends Declared:	
437	Preferred Stock Dividends Declared	
438	Common Stock Dividends Declared — Shareholder Distributions	-
	Total Dividends Declared	$ -
215	Year end Balance	$ (335,074)
214	Appropriated Retained Earnings (state balance and purpose of each appropriated amount at year end):	
214	Total Appropriated Retained Earnings	$ -
Total Retained Earnings		$ (335,074)

Notes to Statement of Retained Earnings:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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ADVANCES FROM ASSOCIATED COMPANIES
ACCOUNT 223

Report each advance separately.

DESCRIPTION (a)	TOTAL (b)
None	$ -
Total	$ -

OTHER LONG-TERM DEBT
ACCOUNT 224

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
Devoloper Payments Due Harper Boulder Hill	0.00 %		$ 286
Developer Payments Due Albright Hilltop	0.00 %		7,946
Developer Payments Due Williamson Northwoods	0.00 %		1,271
Developer Payments Due Ellison Stonehill	0.00 %		278
Developer Payments Due Labuinger Silverwood Villa	0.00 %		100
Developer Payments Due Seyler Conventry	0.00 %		3,445
Developer Payments Due Lake Bryant Estates	0.00 %		3,635
Developer Payments Due Albright Lake Weir Hgts 2nd Add	0.00 %		612
Developer Payments Due Lexington Estates Developer AGR	0.00 %		20,055
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total			$ 37,628

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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NOTES PAYABLE
ACCOUNTS 232 AND 234

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
NOTES PAYABLE (Account 232):			
	%		$ -
L/P Kyocera Copier	0.00 %	Fixed	3,021
Line of Credit	5.60 %	Prime + 2%	98,000
Loan Payable Dewaine Christmas	0.00 %		5,000
Loan Payable James Hodges Jr.	0.00 %		4,490
	%		
	%		
	%		
Total Account 232			$ 110,511
NOTES PAYABLE TO ASSOC. COMPANIES (Account 234):			
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total Account 234			$ -

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

ACCOUNTS PAYABLE TO ASSOCIATED COMPANIES
ACCOUNT 233

Report each account payable separately.

DESCRIPTION (a)	TOTAL (b)
	$
None	
Total	$ -

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCRUED INTEREST AND EXPENSE
ACCOUNTS 237 AND 427

DESCRIPTION OF DEBIT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR ACCT. DEBIT (c)	INTEREST ACCRUED DURING YEAR AMOUNT (d)	INTEREST PAID DURING YEAR (e)	BALANCE END OF YEAR (f)
ACCOUNT NO. 237.1 - Accrued Interest on Long Term Debt					
	$		$	$	$
	-	427.4	-	-	
		428	-	-	
Total Account 237.1	$ -		$ -	$ -	$ -
ACCOUNT NO. 237.2 - Accrued Interest on Other Liabilities					
Customer Deposits	$ (360)	427	$ 1,856	1,940	$ (444)
		427			
Line of Credit		427	5,494	5,494	
Total Account 237.2	$ (360)		$ 7,350	$ 7,434	$ (444)
Total Account 237 (1)	$ (360)		$ 7,350	$ 7,434	$ (444)
INTEREST EXPENSED:					
Total accrual Account 237		237	$ 7,350		
Less Capitalized Interest Portion of AFUDC:					
Net Interest Expensed to Account No. 427 (2)			$ 7,350		

(1) Must agree to F-2 (a), Beginning and Ending Balance of Accrued Interest.

(2) Must agree to F-3 (c), Current Year Interest Expense

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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MISCELLANEOUS CURRENT AND ACCRUED LIABILITIES
ACCOUNT 241

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
	$
Accrued Payroll	-
Pension & Benefit Reserve	30,685
Total Miscellaneous Current and Accrued Liabilities	$ 30,685

ADVANCES FOR CONSTRUCTION
ACCOUNT 252

NAME OF PAYOR * (a)	BALANCE BEGINNING OF YEAR (b)	DEBITS		CREDITS (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
	$	252	$		$ -
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252	-		-
		252			-
		252	-		-
Total	$ -		$ -	$ -	$ -

* Report advances separately by reporting group, designating water or wastewater in column (a).

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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OTHER DEFERRED CREDITS
ACCOUNT 253

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
REGULATORY LIABILITIES (Class A Utilities: Account 253.1):		
None	$	$
Total Regulatory Liabilities	$ -	$ -
OTHER DEFERRED LIABILITIES (Class A Utilities: Account 253.2):		
None	$	$
Total Other Deferred Liabilities	$ -	$ -
TOTAL OTHER DEFERRED CREDITS	$ -	$ -

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	WATER (W-7) (b)	WASTEWATER (S-7) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,994,494	$ -	$ 20,738	$ 2,015,232
Add credits during year:	$ 27,015		-	27,015
Less debit charged during the year	$	$ -	$ 20,738	$ 20,738
Total Contribution In Aid of Construction	$ 2,021,509	$ -	$ -	$ 2,021,509

ACCUMULATED AMORTIZATION OF CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 272

DESCRIPTION (a)	WATER (W-8(a)) (b)	WASTEWATER (S-8(a)) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,528,130	$ -	$ 13,041	$ 1,541,171
Debits during the year:	$ 45,900		13,522	$ 59,422
Credits during the year	$ -	$ -	$ 26,563	$ 26,563
Total Accumulated Amortization of Contributions In Aid of Construction	$ 1,574,030	$ -	$ -	$ 1,574,030

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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RECONCILIATION OF REPORTED NET INCOME WITH TAXABLE INCOME FOR FEDERAL INCOME TAXES (UTILITY OPERATIONS)

1. The reconciliation should include the same detail as furnished on Schedule M-1 of the federal tax return for the year. The reconciliation shall be submitted even though there is no taxable income for the year. Descriptions should clearly indicate the nature of each reconciling amount and show the computations of all tax accruals.

2. If the utility is a member of a group which files a consolidated federal tax return, reconcile reported net income with taxable net income as if a separate return were to be filed, indicating intercompany amounts to be eliminated in such consolidated return. State names of group members, tax assigned to each group member, and basis of allocation, assignments or sharing of the consolidated tax among the group members.

DESCRIPTION (a)	REF. NO. (b)	AMOUNT (c)
Net income for the year	F-3(c)	$
Reconciling items for the year:		
Taxable income not reported on books:		
		-
		-
		-
		-
Deductions recorded on books not deducted for return:		
Income recorded on books not included in return:		
		-
		-
		-
		-
Deduction on return not charged against book income:		
		-
		-
		-
		-
Federal tax net income		$ -

Computation of tax :

This Corporation is an "S" Corporation, therfore this schedule is not applicable

WATER
OPERATION
SECTION

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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December 31, 2020

WATER LISTING OF SYSTEM GROUPS

List below the name of each reporting system and its certificate number. Those systems which have been consolidated under the same tariff should be assigned a group number. Each individual system which has not been consolidated should be assigned its own group number.
The water financial schedules (W-2 through W-10) should be filed for the group in total.
The water engineering schedules (W-11 through W-14) must be filed for each system in the group.
All of the following water pages (W-2 through W-14) should be completed for each group and arranged by group number.

SYSTEM NAME / COUNTY	CERTIFICATE NUMBER	GROUP NUMBER
Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)	363W	1
Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines	363W	4

Note: On August 1, 1999 Citrus County took over monitoring responsibilties
Therefore Citrus County is no longer included in this report.

WATER
OPERATION
SECTION
GROUP 1

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 205,164
	Less: Nonused and Useful Plant (1)		621
108	Accumulated Depreciation	W-6(b)	87,342
110	Accumulated Amortization		-
271	Contributions in Aid of Construction	W-7	21,539
252	Advances for Construction	F-20	-
	Subtotal		$ 95,662
272	Add: Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 8,641
	Subtotal		$ 104,303
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	(9,685)
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	4,116
	Working Capital Allowance (3)		7,213
	Other (Specify):		
105	Construction in Process		-
	WATER RATE BASE		$ 105,947
	WATER OPERATING INCOME	W-3	$ 9,541
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		9.01%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 80,301
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 80,301
401	Operating Expenses	W-10(a)	$ 57,702
403	Depreciation Expense	W-6(a)	6,663
	Less: Amortization of CIAC	W-8(a)	690
	Net Depreciation Expense		$ 5,973
406	Amortization of Utility Plant Acquisition Adjustment	F-7	(242)
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		3,614
408.11	Property Taxes		1,364
408.12	Payroll Taxes		1,581
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 6,559
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 69,992
	Utility Operating Income		$ 10,309
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		(768)
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ 9,541

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ -	$		$ -
302	Franchises	-			-
303	Land and Land Rights	36,113			36,113
304	Structures and Improvements	5,207			5,207
305	Collecting and Impounding Reservoirs	-			-
306	Lake, River and Other Intakes	-			-
307	Wells and Springs	43,921			43,921
308	Infiltration Galleries and Tunnels	-			-
309	Supply Mains	-			-
310	Power Generation Equipment	-			-
311	Pumping Equipment	26,051	595	(200)	26,446
320	Water Treatment Equipment	7,845	507	(801)	7,551
330	Distribution Reservoirs and Standpipes	39,572			39,572
331	Transmission and Distribution Mains	11,648			11,648
333	Services	10,704	-		10,704
334	Meters and Meter Installations	12,356			12,356
335	Hydrants	-			-
336	Backflow Prevention Devices	-			-
339	Other Plant Miscellaneous Equipment	-			-
340	Office Furniture and Equipment	8,096	148	(21)	8,223
341	Transportation Equipment	1,874			1,874
342	Stores Equipment	-			-
343	Tools, Shop and Garage Equipment	1,510	57	(18)	1,549
344	Laboratory Equipment	-			-
345	Power Operated Equipment	-			-
346	Communication Equipment	-			-
347	Miscellaneous Equipment	-			-
349	Abandonment of Regional Plant	-			-
	TOTAL WATER PLANT	$ 204,897	$ 1,307	$ -1,040	$ 205,164

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ -	$ -	$	$	$	$
302	Franchises	-	-				
303	Land and Land Rights	36,113		36,113	-	-	-
304	Structures and Improvements	5,207		5,207	-	-	-
305	Collecting and Impounding Reservoirs	-		-			
306	Lake, River and Other Intakes	-		-			
307	Wells and Springs	43,921		43,921			
308	Infiltration Galleries and Tunnels	-		-			
309	Supply Mains	-		-			
310	Power Generation Equipment	-		-			
311	Pumping Equipment	26,446		26,446	-	-	
320	Water Treatment Equipment	7,551			7,551		
330	Distribution Reservoirs and Standpipes	39,572				39,572	
331	Transmission and Distribution Mains	11,648				11,648	
333	Services	10,704				10,704	
334	Meters and Meter Installations	12,356				12,356	
335	Hydrants	-				-	
336	Backflow Prevention Devices	-				-	
339	Other Plant Miscellaneous Equipment	-	-	-	-	-	
340	Office Furniture and Equipment	8,223					8,223
341	Transportation Equipment	1,874					1,874
342	Stores Equipment	-					-
343	Tools, Shop and Garage Equipment	1,549					1,549
344	Laboratory Equipment	-					
345	Power Operated Equipment	-					-
346	Communication Equipment	-					-
347	Miscellaneous Equipment	-					-
349	Abandonment of Regional Plant	-					-
	TOTAL WATER PLANT	$ 205,164	$ 0	$ 111,687	$ 7,551	$ 74,280	$ 11,646

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ -	$ -		$ -
304	Structures and Improvements	5,207	-		-
305	Collecting and Impounding Reservoirs	-			-
306	Lake, River and Other Intakes	-			-
307	Wells and Springs	16,011	1,464		1,464
308	Infiltration Galleries and Tunnels	-			-
309	Supply Mains	-	-		-
310	Power Generation Equipment	-	-		-
311	Pumping Equipment	15,561	1,312		1,312
320	Water Treatment Equipment	1,831	350		350
330	Distribution Reservoirs and Standpipes	14,879	1,799		1,799
331	Transmission and Distribution Mains	11,648	-		-
333	Services	1,133	249		249
334	Meters and Meter Installations	7,644	618		618
335	Hydrants	-			-
336	Backflow Prevention Devices	-			-
339	Other Plant Miscellaneous Equipment	-	-		-
340	Office Furniture and Equipment	5,223	544		544
341	Transportation Equipment	1,304	232		232
342	Stores Equipment	-	-		-
343	Tools, Shop and Garage Equipment	509	95		95
344	Laboratory Equipment	-			-
345	Power Operated Equipment	-	-		-
346	Communication Equipment	-	-		-
347	Miscellaneous Equipment	-	-		-
349	Abandonment of Regional Plant	-	-		-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 80,950	$ 6,663	$ 0	$ 6,663

* Auditor Adjustment
Use ( ) to denote reversal entries.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$			$ -	$ -
304	Structures and Improvements				-	5,207
305	Collecting and Impounding Reservoirs				-	-
306	Lake, River and Other Intakes				-	-
307	Wells and Springs				-	17,475
308	Infiltration Galleries and Tunnels				-	-
309	Supply Mains			-	-	-
310	Power Generation Equipment				-	-
311	Pumping Equipment	26		-	26	16,847
320	Water Treatment Equipment	221			221	1,960
330	Distribution Reservoirs and Standpipes	-			-	16,678
331	Transmission and Distribution Mains	-			-	11,648
333	Services				-	1,382
334	Meters and Meter Installations				-	8,262
335	Hydrants				-	-
336	Backflow Prevention Devices				-	-
339	Other Plant Miscellaneous Equipment				-	-
340	Office Furniture and Equipment	14			14	5,753
341	Transportation Equipment				-	1,536
342	Stores Equipment				-	-
343	Tools, Shop and Garage Equipment	10			10	594
344	Laboratory Equipment				-	-
345	Power Operated Equipment				-	-
346	Communication Equipment				-	-
347	Miscellaneous Equipment				-	-
349	Abandonment of Regional Plant				-	-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 271	$ 0	$ 0	$ 271	$ 87,342

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 21,539
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 0
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	0
Total Credits		$ 0
Less debits charged during the year (All debits charged during the year must be explained below)		$ 0
Total Contributions In Aid of Construction		$ 21,539

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	-	$ 865.0	$ -
Other Side Tap 3/4" meter	-	1,230.0	-
Other Side Tap 3/4" meter	-	1,165.0	-
Other Side Tap 3/4" meter	-	1,270.0	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
Total Credits			$ -

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 7,951
Debits during the year:	
Accruals charged to Account 272	$ 690
Other debits (specify) :	
Total debits	$ 690
Credits during the year (specify) :	
Audit Adjustment	$ 0
Total credits	$ -
Balance end of year	$ 8,641

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
		$
Total Credits		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue			$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	283	287	74,686
461.2	Sales to Commercial Customers			
461.3	Sales to Industrial Customers			
461.4	Sales to Public Authorities			
461.5	Sales Multiple Family Dwellings			
	Total Metered Sales	283	287	$ 74,686
	Fire Protection Revenue:			
462.1	Public Fire Protection			
462.2	Private Fire Protection			
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities			
465	Sales To Irrigation Customers			
466	Sales For Resale			
467	Interdepartmental Sales			
	Total Water Sales	283	287	$ 74,686
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$
470	Forfeited Discounts			
471	Miscellaneous Service Revenues			5,615
472	Rents From Water Property			
473	Interdepartmental Rents			
474	Other Water Revenues			
	Total Other Water Revenues			$ 5,615
	Total Water Operating Revenues			$ 80,301

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 6,931	$	874
603	Salaries and Wages - Officers, Directors and Majority Stockholders	12,625		164
604	Employee Pensions and Benefits	4,480		238
610	Purchased Water	-		
615	Purchased Power	4,493	4,286	-
616	Fuel for Power Production	-	-	
618	Chemicals	1,247		
620	Materials and Supplies	3,637		349
631	Contractual Services-Engineering	-	-	
632	Contractual Services - Accounting	2,000		
633	Contractual Services - Legal	-		
634	Contractual Services - Mgt. Fees	-		
635	Contractual Services - Testing	2,699		
636	Contractual Services - Other	9,051		1,791
641	Rental of Building/Real Property	647	-	
642	Rental of Equipment	-		-
650	Transportation Expenses	3,306		
656	Insurance - Vehicle	709		
657	Insurance - General Liability	-		
658	Insurance - Workman's Comp.	400		
659	Insurance - Other	-		
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-		
668	Water Resource Conservation Exp.	-		
670	Bad Debt Expense	$ 755		
675	Miscellaneous Expenses	$ 4,722	600	
	Total Water Utility Expenses	$ 57,702	$ 4,886	$ 3,416

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	61	-	2,572	2,873	551
	68		1,020	3,419	7,954
	30		823	1,441	1,948
					207
1,247					
	-		3,288		-
					2,000
					-
2,699			-		
	7,260		-		-
					647
		-			-
				3,306	-
				709	
				-	
					400
				755	
			115	1,631	2,376
$ 3,946	$ 7,419	$ -	$ 7,818	$ 14,134	$ 16,083

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Quail Run / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		739	234	505	505
February		765	147	618	618
March		713	171	542	542
April		820	206	614	614
May		765	191	574	574
June		793	171	622	622
July		759	87	672	672
August		897	194	703	703
September		646	97	549	549
October		663	210	453	453
November		754	20	734	734
December		663	86	577	577
Total for Year	-	8,977	1,814	7,163	7,163

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,216,000 *	24,595	Ground Water

* Annual

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UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Quail Run / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 518400

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	89	89
3/4"	Displacement	1.5		
1"	Displacement	2.5	16	40
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		129

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 56

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 129
2. Maximum number of ERCs * which can be served. 139
3. Present system connection capacity (in ERCs *) using existing lines. 1481
4. Future connection capacity (in ERCs *) upon service area buildout. 1481
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424046
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,118	384	734	734
February		1,060	494	566	566
March		2,797	2,200	597	597
April		1,559	756	803	803
May		1,288	456	832	832
June		1,139	502	637	637
July		1,187	490	697	697
August		1,196	346	850	850
September		1,088	518	570	570
October		1,201	392	809	809
November		1,029	468	561	561
December		1,102	357	745	745
Total for Year	-	15,764	7,363	8,401	8,401

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,000,000	43,189	Ground Water

* Annual

YEAR OF REPORT
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UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 517,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	182	182
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		182

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 66

YEAR OF REPORT
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UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 182
2. Maximum number of ERCs * which can be served. 182
3. Present system connection capacity (in ERCs *) using existing lines. 182
4. Future connection capacity (in ERCs *) upon service area buildout. 182
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WATER
OPERATION
SECTION
GROUP 4

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 3,219,101
	Less: Nonused and Useful Plant (1)		56,983
108	Accumulated Depreciation	W-6(b)	2,598,817
110	Accumulated Amortization		
271	Contributions in Aid of Construction	W-7	1,999,970
252	Advances for Construction	F-20	-
	Subtotal		$ (1,436,669)
272	Add: Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 1,565,389
	Subtotal		$ 128,720
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	39,523
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(16,797)
	Working Capital Allowance (3)		110,885
	Other (Specify):		
105	Construction in Process		-
	WATER RATE BASE		$ 262,331
	WATER OPERATING INCOME	W-3	$ 23,901
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		9.11%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

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UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 1,024,333
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 1,024,333
401	Operating Expenses	W-10(a)	$ 887,078
403	Depreciation Expense	W-6(a)	65,960
	Less: Amortization of CIAC	W-8(a)	45,210
	Net Depreciation Expense		$ 20,750
406	Amortization of Utility Plant Acquisition Adjustment	F-7	988
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		46,095
408.11	Property Taxes		16,884
408.12	Payroll Taxes		27,126
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 90,105
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 998,921
	Utility Operating Income		$ 25,412
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		(1,511)
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ 23,901

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ 1,660	$ -	-	$ 1,660
302	Franchises	-	-	-	-
303	Land and Land Rights	70,777	-	-	70,777
304	Structures and Improvements	6,227	-	-	6,227
305	Collecting and Impounding Reservoirs	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-
307	Wells and Springs	75,016	136	-	75,152
308	Infiltration Galleries and Tunnels	-	-	-	-
309	Supply Mains	107,157	29,084	-	136,241
310	Power Generation Equipment	88,277	3,845	(2,387)	89,735
311	Pumping Equipment	522,913	11,944	(4,489)	530,368
320	Water Treatment Equipment	212,977	5,794	(3,503)	215,268
330	Distribution Reservoirs and Standpipes	95,804	2,143	-	97,947
331	Transmission and Distribution Mains	1,074,742	-	-	1,074,742
333	Services	158,009	6,122	-	164,131
334	Meters and Meter Installations	213,915	17,547	(11,140)	220,322
335	Hydrants	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-
339	Other Plant Miscellaneous Equipment	25,858	-	-	25,858
340	Office Furniture and Equipment	83,897	1,898	(270)	85,525
341	Transportation Equipment	115,148	-	-	115,148
342	Stores Equipment	4,425	-	-	4,425
343	Tools, Shop and Garage Equipment	35,786	1,076	(228)	36,634
344	Laboratory Equipment	-	-	-	-
345	Power Operated Equipment	5,200	-	-	5,200
346	Communication Equipment	10,912	-	-	10,912
347	Miscellaneous Equipment	17,436	-	-	17,436
349	Abandonment of Regional Plant	235,393	-	-	235,393
	TOTAL WATER PLANT	$ 3,161,529	$ 79,589	$ -22,017	$ 3,219,101

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.
* auditor adjustment

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ 1,660	$ 1,660	$	$	$	$
302	Franchises	-	-				
303	Land and Land Rights	70,777		70,777	-	-	-
304	Structures and Improvements	6,227		6,227	-	-	-
305	Collecting and Impounding Reservoirs	-		-			
306	Lake, River and Other Intakes	-		-			
307	Wells and Springs	75,152		75,152			
308	Infiltration Galleries and Tunnels	-		-			
309	Supply Mains	136,241		136,241			
310	Power Generation Equipment	89,735		89,735			
311	Pumping Equipment	530,368		530,368	-	-	
320	Water Treatment Equipment	215,268			215,268		
330	Distribution Reservoirs and Standpipes	97,947				97,947	
331	Transmission and Distribution Mains	1,074,742				1,074,742	
333	Services	164,131				164,131	
334	Meters and Meter Installations	220,322				220,322	
335	Hydrants	-				-	
336	Backflow Prevention Devices	-				-	
339	Other Plant Miscellaneous Equipment	25,858	25,858	-	-	-	
340	Office Furniture and Equipment	85,525					85,525
341	Transportation Equipment	115,148					115,148
342	Stores Equipment	4,425					4,425
343	Tools, Shop and Garage Equipment	36,634					36,634
344	Laboratory Equipment	-					-
345	Power Operated Equipment	5,200					5,200
346	Communication Equipment	10,912					10,912
347	Miscellaneous Equipment	17,436					17,436
349	Abandonment of Regional Plant	235,393					235,393
	TOTAL WATER PLANT	$ 3,219,101	$ 27,518	$ 908,500	$ 215,268	$ 1,557,142	$ 510,673

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ 1,463	$ 41	-	$ 41
304	Structures and Improvements	3,330	188	-	188
305	Collecting and Impounding Reservoirs	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-
307	Wells and Springs	75,015	3	-	3
308	Infiltration Galleries and Tunnels	-	-	-	-
309	Supply Mains	43,183	3,477	-	3,477
310	Power Generation Equipment	73,508	5,696	-	5,696
311	Pumping Equipment	462,237	3,679	-	3,679
320	Water Treatment Equipment	197,456	903	-	903
330	Distribution Reservoirs and Standpipes	30,280	4,403	-	4,403
331	Transmission and Distribution Mains	965,000	24,994	-	24,994
333	Services	52,198	3,746	-	3,746
334	Meters and Meter Installations	169,326	10,856	-	10,856
335	Hydrants	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-
339	Other Plant Miscellaneous Equipment	25,858	-	-	-
340	Office Furniture and Equipment	44,067	5,648	-	5,648
341	Transportation Equipment	109,579	1,554	-	1,554
342	Stores Equipment	3,244	221	-	221
343	Tools, Shop and Garage Equipment	28,678	551	-	551
344	Laboratory Equipment	-	-	-	-
345	Power Operated Equipment	5,200	-	-	-
346	Communication Equipment	10,911	-	-	-
347	Miscellaneous Equipment	17,436	-	-	-
349	Abandonment of Regional Plant	235,393	-	-	-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 2,553,362	$ 65,960	$ 0	$ 65,960

* Specify nature of transaction
Use ( ) to denote reversal entries.

W-6(a)
GROUP 4

Entered on wrong line in 2007

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$ -	-	-	$ -	$ 1,504
304	Structures and Improvements	-	-	-	-	3,518
305	Collecting and Impounding Reservoirs	-	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-	-
307	Wells and Springs	-	-	-	-	75,018
308	Infiltration Galleries and Tunnels	-	-	-	-	-
309	Supply Mains	-	-	-	-	46,660
310	Power Generation Equipment	2,314	-	-	2,314	76,890
311	Pumping Equipment	4,489	-	-	4,489	461,427
320	Water Treatment Equipment	3,503	-	-	3,503	194,856
330	Distribution Reservoirs and Standpipes	-	-	-	-	34,683
331	Transmission and Distribution Mains	-	-	-	-	989,994
333	Services	-	-	-	-	55,944
334	Meters and Meter Installations	9,810	-	-	9,810	170,372
335	Hydrants	-	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-	-
339	Other Plant Miscellaneous Equipment	-	-	-	-	25,858
340	Office Furniture and Equipment	160	-	-	160	49,555
341	Transportation Equipment	-	-	-	-	111,133
342	Stores Equipment	1	-	-	1	3,464
343	Tools, Shop and Garage Equipment	228	-	-	228	29,001
344	Laboratory Equipment	-	-	-	-	-
345	Power Operated Equipment	-	-	-	-	5,200
346	Communication Equipment	-	-	-	-	10,911
347	Miscellaneous Equipment	-	-	-	-	17,436
349	Abandonment of Regional Plant	-	-	-	-	235,393
TOTAL WATER ACCUMULATED DEPRECIATION		$ 20,505	$ 0	$ 0	$ 20,505	$ 2,598,817

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 1,972,955
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 27,015
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	-
Total Credits		$ 27,015
Less debits charged during the year (All debits charged during the year must be explained below)		$ -
Total Contributions In Aid of Construction		$ 1,999,970

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

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UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	30	$ 865	$ 25,950
Other Side Tap 3/4" meter	3	1,230	3,690
Other Side Tap 3/4" meter		1,165	-
Other Side Tap 3/4" meter		1,270	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
Total Credits			$ 29,640

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 1,520,179
Debits during the year:	
Accruals charged to Account 272	$ 45,210
Other debits (specify) :	
Auditor Adjustment	0
Total debits	$ 45,210
Credits during the year (specify) :	
	$ -
Total credits	$ -
Balance end of year	$ 1,565,389

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
N/A		$ 0
Total Credits		$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue	-	-	$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	3,610	3,647	963,495
461.2	Sales to Commercial Customers	-	-	-
461.3	Sales to Industrial Customers	-	-	-
461.4	Sales to Public Authorities	-	-	-
461.5	Sales Multiple Family Dwellings	-	-	-
	Total Metered Sales	3,610	3,647	$ 963,495
	Fire Protection Revenue:			
462.1	Public Fire Protection	-	-	-
462.2	Private Fire Protection	-	-	-
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities	-	-	-
465	Sales To Irrigation Customers	-	-	-
466	Sales For Resale	-	-	-
467	Interdepartmental Sales	-	-	-
	Total Water Sales	3,610	3,647	$ 963,495
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$ -
470	Forfeited Discounts			-
471	Miscellaneous Service Revenues			60,838
472	Rents From Water Property			-
473	Interdepartmental Rents			-
474	Other Water Revenues			-
	Total Other Water Revenues			$ 60,838
	Total Water Operating Revenues			$ 1,024,333

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 137,136	$ -	13,849
603	Salaries and Wages - Officers, Directors and Majority Stockholders	206,995	-	32,887
604	Employee Pensions and Benefits	64,322	-	8,735
610	Purchased Water	-	-	-
615	Purchased Power	59,405	56,762	-
616	Fuel for Power Production	1,217	1,217	-
618	Chemicals	23,535	-	-
620	Materials and Supplies	40,338	-	6,530
631	Contractual Services-Engineering	-	-	-
632	Contractual Services - Accounting	13,568	-	-
633	Contractual Services - Legal	-	-	-
634	Contractual Services - Mgt. Fees	-	-	-
635	Contractual Services - Testing	28,903	-	-
636	Contractual Services - Other	64,546	-	23,848
641	Rental of Building/Real Property	113,862	104,839	-
642	Rental of Equipment	2,154	-	709
650	Transportation Expenses	44,306	-	-
656	Insurance - Vehicle	9,883	-	-
657	Insurance - General Liability	-	-	-
658	Insurance - Workman's Comp.	5,947	-	-
659	Insurance - Other	-	-	-
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-	-	-
668	Water Resource Conservation Exp.	-	-	-
670	Bad Debt Expense	$ 10,794		
675	Miscellaneous Expenses	$ 60,167	7,600	700
	Total Water Utility Expenses	$ 887,078	$ 170,418	$ 87,258

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	1,030	-	56,685	46,721	18,851
-	221	-	25,558	43,709	104,620
-	234	-	15,372	16,902	23,079
-	-	-	-	-	-
-	-	-	-	-	2,643
-	-	-	-	-	-
23,535	-	-	-	-	-
-	156	-	33,652	-	-
-	-	-	-	-	-
-	-	-	-	-	13,568
-	-	-	-	-	-
-	-	-	-	-	-
28,903	-	-	-	-	-
-	38,508	-	2,290	-	(100)
-	-	-	-	-	9,023
-	-	-	1,445	-	-
-	-	-	-	44,306	-
-	-	-	-	9,883	-
-	-	-	-	-	-
-	-	-	-	64	5,883
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	10,794	
-	-	-	1,537	20,500	29,830
$ 52,438	$ 40,149	$ -	$ 136,539	$ 192,879	$ 207,397

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		233	4	229	229
February		265	72	193	193
March		243	40	203	203
April		292	37	255	255
May		318	66	252	252
June		271	5	266	266
July		237	15	222	222
August		284	6	278	278
September		298	69	229	229
October		261	97	164	164
November		297	12	285	285
December		336	2	334	334
Total for Year	-	3,335	425	2,910	2,910

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	22,630,000 *	9,137	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 62000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential				
5/8"	Displacement	1.0	48	48
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		48

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 166

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 48
2. Maximum number of ERCs * which can be served. 48
3. Present system connection capacity (in ERCs *) using existing lines. 48
4. Future connection capacity (in ERCs *) upon service area buildout. 48
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		858	507	351	351
February		661	249	412	412
March		466	109	357	357
April		526	36	490	490
May		488	12	476	476
June		545	105	440	440
July		545	39	506	506
August		555	8	547	547
September		518	126	392	392
October		519	145	374	374
November		555	151	404	404
December		464	93	371	371
Total for Year	-	6,700	1,580	5,120	5,120

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,700,000 *	18,356	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	87	87
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		95

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 84

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Belleview Oaks / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 95
2. Maximum number of ERCs * which can be served. 102
3. Present system connection capacity (in ERCs *) using existing lines. 102
4. Future connection capacity (in ERCs *) upon service area buildout. 102
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424621
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? YES
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		104	28	76	76
February		105	25	80	80
March		83	12	71	71
April		97	7	90	90
May		100	16	84	84
June		118	19	99	99
July		101	2	99	99
August		105	1	104	104
September		95	1	94	94
October		111	26	85	85
November		124	1	123	123
December		130	3	127	127
Total for Year	-	1,273	141	1,132	1,132

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,935,000 *	3,488	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 19,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Burks;Ocala Garden / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	24	24
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement, Compound or Turbine	5.0	2	10
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		34

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 119

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 34
2. Maximum number of ERCs * which can be served. 39
3. Present system connection capacity (in ERCs *) using existing lines. 39
4. Future connection capacity (in ERCs *) upon service area buildout. 39
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421554
12. Water Management District Consumptive Use Permit # N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Country Walk / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		424	110	314	314
February		468	110	358	358
March		580	159	421	421
April		683	134	549	549
May		577	155	422	422
June		628	175	453	453
July		535	25	510	510
August		513	29	484	484
September		449	137	312	312
October		393	117	276	276
November		424	52	372	372
December		426	116	310	310
Total for Year	-	6,100	1,319	4,781	4,781

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,090,000 *	16,712	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Country Walk / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 66,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Country Walk / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	71	71
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		71

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 184

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Country Walk / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 71
2. Maximum number of ERCs * which can be served. 80
3. Present system connection capacity (in ERCs *) using existing lines. 80
4. Future connection capacity (in ERCs *) upon service area buildout. 80
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424657
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		290	102	188	188
February		245	80	165	165
March		258	104	154	154
April		350	178	172	172
May		247	49	198	198
June		296	74	222	222
July		266	58	208	208
August		338	93	245	245
September		214	43	171	171
October		270	148	122	122
November		390	185	205	205
December		199	32	167	167
Total for Year	-	3,363	1,146	2,217	2,217

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	14,235,000 *	9,214	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 39,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	40	40
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		40

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 152

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Eleven Oaks / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 40
2. Maximum number of ERCs * which can be served. 43
3. Present system connection capacity (in ERCs *) using existing lines. 43
4. Future connection capacity (in ERCs *) upon service area buildout. 43
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424099
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		4,798	1,726	3,072	3,072
February		4,215	1,243	2,972	2,972
March		2,743	1,059	1,684	1,684
April		4,523	500	4,023	4,023
May		4,410	94	4,316	4,316
June		4,785	56	4,729	4,729
July		4,698	1,223	3,475	3,475
August		5,171	1,481	3,690	3,690
September		4,594	734	3,860	3,860
October		4,327	1,621	2,706	2,706
November		5,632	2,023	3,609	3,609
December		4,769	1,430	3,339	3,339
Total for Year	-	54,665	13,190	41,475	41,475

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	83,600,000	149,767	Ground Water
Well			

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 229041

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	666	666
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		669

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 170

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 669
2. Maximum number of ERCs * which can be served. 696
3. Present system connection capacity (in ERCs *) using existing lines. 696
4. Future connection capacity (in ERCs *) upon service area buildout. 696
5. Estimated annual increase in ERCs *. 3
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420340 & 3421314
12. Water Management District Consumptive Use Permit 3130
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Florida Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		637	175	462	462
February		688	188	500	500
March		651	192	459	459
April		798	187	611	611
May		776	231	545	545
June		781	221	560	560
July		865	152	713	713
August		666	26	640	640
September		667	190	477	477
October		680	205	475	475
November		805	264	541	541
December		807	391	416	416
Total for Year	-	8,821	2,422	6,399	6,399

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	11,000,000 *	24,167	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Florida Heights / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 30,137

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.):

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Florida Heights / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	105	105
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		105

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 167

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Florida Heights / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 105
2. Maximum number of ERCs * which can be served. 112
3. Present system connection capacity (in ERCs *) using existing lines. 112
4. Future connection capacity (in ERCs *) upon service area buildout. 112
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424031
12. Water Management District Consumptive Use Permit 3131
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		651	353	298	298
February		655	342	313	313
March		626	337	289	289
April		536	148	388	388
May		521	114	407	407
June		586	138	448	448
July		549	149	400	400
August		663	109	554	554
September		486	152	334	334
October		1,270	844	426	426
November		540	161	379	379
December		458	135	323	323
Total for Year	-	7,541	2,982	4,559	4,559

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,820,000	20,660	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 68,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	75	75
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		75

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 167

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Floyd Clark;Hodges;Northwoods / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 75
2. Maximum number of ERCs * which can be served. 75
3. Present system connection capacity (in ERCs *) using existing lines. 75
4. Future connection capacity (in ERCs *) upon service area buildout. 75
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420411
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,221	226	995	995
February		1,369	240	1,129	1,129
March		1,388	342	1,046	1,046
April		1,917	334	1,583	1,583
May		1,655	194	1,461	1,461
June		2,042	338	1,704	1,704
July		1,471	8	1,463	1,463
August		1,602	45	1,557	1,557
September		1,422	283	1,139	1,139
October		1,302	291	1,011	1,011
November		1,468	202	1,266	1,266
December		1,406	181	1,225	1,225
Total for Year	-	18,263	2,684	15,579	15,579

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	19,000,000 *	50,036	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 52,055

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	232	232
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		232

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 184

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 232
2. Maximum number of ERCs * which can be served. 249
3. Present system connection capacity (in ERCs *) using existing lines. 249
4. Future connection capacity (in ERCs *) upon service area buildout. 249
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424644
12. Water Management District Consumptive Use Permit 3013
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Hilltop / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,641	360	1,281	1,281
February		2,143	1,118	1,025	1,025
March		1,304	232	1,072	1,072
April		1,992	282	1,710	1,710
May		2,001	240	1,761	1,761
June		1,641	124	1,517	1,517
July		1,541	224	1,317	1,317
August		1,821	437	1,384	1,384
September		2,257	1,263	994	994
October		1,349	111	1,238	1,238
November		1,210	6	1,204	1,204
December		1,642	608	1,034	1,034
Total for Year	-	20,542	5,005	15,537	15,537

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,800,000	56,279	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Hilltop / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 18,630

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Hilltop / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	224	224
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		232

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 183

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Hilltop / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 232
2. Maximum number of ERCs * which can be served. 306
3. Present system connection capacity (in ERCs *) using existing lines. 306
4. Future connection capacity (in ERCs *) upon service area buildout. 306
5. Estimated annual increase in ERCs *. 5
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424662
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,959	127	1,832	1,832
February		2,695	1,100	1,595	1,595
March		2,303	536	1,767	1,767
April		2,836	608	2,228	2,228
May		2,771	913	1,858	1,858
June		2,155	345	1,810	1,810
July		3,123	1,285	1,838	1,838
August		2,772	691	2,081	2,081
September		2,663	933	1,730	1,730
October		2,540	849	1,691	1,691
November		2,611	1,028	1,583	1,583
December		2,562	836	1,726	1,726
Total for Year	-	30,990	9,251	21,739	21,739

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	30,842,500	84,904	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 84,500

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	426	426
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		429

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 139

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Little Lake Weir / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 429
2. Maximum number of ERCs * which can be served. 749
3. Present system connection capacity (in ERCs *) using existing lines. 749
4. Future connection capacity (in ERCs *) upon service area buildout. 749
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420761
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oak Haven / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,889	994	895	895
February		1,233	283	950	950
March		1,211	414	797	797
April		1,321	521	800	800
May		1,301	378	923	923
June		1,100	337	763	763
July		1,324	401	923	923
August		1,326	329	997	997
September		1,040	375	665	665
October		1,181	564	617	617
November		1,109	333	776	776
December		1,145	452	693	693
Total for Year	-	15,180	5,381	9,799	9,799

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	18,000,000	41,589	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oak Haven / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 49,315

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oak Haven / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	63	63
3/4"	Displacement	1.5		
1"	Displacement	2.5	6	15
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	4	20
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0	1	15
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	2	60
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		173

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 155

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oak Haven / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 173
2. Maximum number of ERCs * which can be served. 200
3. Present system connection capacity (in ERCs *) using existing lines. 200
4. Future connection capacity (in ERCs *) upon service area buildout. 200
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424106
12. Water Management District Consumptive Use Permit 3080
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oakhurst / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		591	109	482	482
February		657	96	561	561
March		642	139	503	503
April		969	217	752	752
May		955	62	893	893
June		892	48	844	844
July		771	79	692	692
August		731	10	721	721
September		566	37	529	529
October		583	196	387	387
November		645	18	627	627
December		604	123	481	481
Total for Year	-	8,606	1,134	7,472	7,472

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

* The master meter is failing to read low flows thus making the water pumped understated.
The company is is currently looking into replacing the master meter with a special meter to read low flow

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	13,000,000	23,578	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oakhurst / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 35,616

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oakhurst / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	108	108
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		108

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 190

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Oakhurst / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 108
2. Maximum number of ERCs * which can be served. 108
3. Present system connection capacity (in ERCs *) using existing lines. 108
4. Future connection capacity (in ERCs *) upon service area buildout. 108
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424032
12. Water Management District Consumptive Use Permit 3132
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,614	165	1,449	1,449
February		1,533	243	1,290	1,290
March		1,533	350	1,183	1,183
April		1,999	409	1,590	1,590
May		1,698	96	1,602	1,602
June		1,887	253	1,634	1,634
July		1,846	185	1,661	1,661
August		1,887	72	1,815	1,815
September		1,765	445	1,320	1,320
October		1,774	644	1,130	1,130
November		1,810	251	1,559	1,559
December		2,134	841	1,293	1,293
Total for Year	-	21,480	3,954	17,526	17,526

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	39,600,000	58,849	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 108,493

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	383	383
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		383

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 125

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY: **Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 383
2. Maximum number of ERCs * which can be served. 605
3. Present system connection capacity (in ERCs *) using existing lines. 605
4. Future connection capacity (in ERCs *) upon service area buildout. 605
5. Estimated annual increase in ERCs *. 15
6. Is the utility required to have fire flow capacity? yes
   If so, how much capacity is required? 500 gmp for two hours
7. Attach a description of the fire fighting facilities. Hydrants
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424651
12. Water Management District Consumptive Use Permit 3019
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,229	634	1,595	1,595
February		2,329	608	1,721	1,721
March		2,508	774	1,734	1,734
April		2,591	521	2,070	2,070
May		3,419	1,168	2,251	2,251
June		2,940	506	2,434	2,434
July		2,791	796	1,995	1,995
August		2,974	521	2,453	2,453
September		2,560	602	1,958	1,958
October		2,410	236	2,174	2,174
November		2,386	713	1,673	1,673
December		2,752	847	1,905	1,905
Total for Year	-	31,889	7,926	23,963	23,963

If water is purchased for resale, indicate the following:

Vendor: Marion Utilities, Inc

Point of delivery: Ocklawaha Terrace

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	60,955,000	87,367	Ground Water

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 167,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	354	354
3/4"	Displacement	1.5		
1"	Displacement	2.5	4	10
1 1/4"	Displacement, Compound or Turbine	3.8	2	8
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0	3	24
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		401

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 164

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 401
2. Maximum number of ERCs * which can be served. 597
3. Present system connection capacity (in ERCs *) using existing lines. 597
4. Future connection capacity (in ERCs *) upon service area buildout. 597
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420939
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunlight Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		339	78	261	261
February		362	85	277	277
March		400	135	265	265
April		593	182	411	411
May		551	192	359	359
June		456	101	355	355
July		537	72	465	465
August		475	48	427	427
September		306	19	287	287
October		390	152	238	238
November		432	75	357	357
December		417	147	270	270
Total for Year	-	5,258	1,286	3,972	3,972

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,500,000 *	14,405	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunlight Acres / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 17,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunlight Acres / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	69	69
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		69

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 158

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 69
2. Maximum number of ERCs * which can be served. 72
3. Present system connection capacity (in ERCs *) using existing lines. 72
4. Future connection capacity (in ERCs *) upon service area buildout. 72
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421520
12. Water Management District Consumptive Use Permit 2996
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		92	2	90	90
February		93	5	88	88
March		93	2	91	91
April		160	60	100	100
May		105	8	97	97
June		113	3	110	110
July		121	6	115	115
August		116	2	114	114
September		100	12	88	88
October		108	30	78	78
November		83	2	81	81
December		91	3	88	88
Total for Year	-	1,275	135	1,140	1,140

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,665,000	3,493	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Sun Resorts / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	32	32
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		32

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 98

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sun Resorts / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 32
2. Maximum number of ERCs * which can be served. 32
3. Present system connection capacity (in ERCs *) using existing lines. 32
4. Future connection capacity (in ERCs *) upon service area buildout. 32
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421201
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,284	9	1,275	1,275
February		1,344	38	1,306	1,306
March		1,208	93	1,115	1,115
April		1,338	69	1,269	1,269
May		1,253	91	1,162	1,162
June		1,338	123	1,215	1,215
July		1,553	86	1,467	1,467
August		1,493	81	1,412	1,412
September		1,208	35	1,173	1,173
October		1,333	216	1,117	1,117
November		1,536	99	1,437	1,437
December		1,167	39	1,128	1,128
Total for Year	-	16,055	979	15,076	15,076

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	15,000,000	43,986	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 41,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	73	73
3/4"	Displacement	1.5		
1"	Displacement	2.5	26	65
1 1/4"	Displacement, Compound or Turbine	3.8	28	106
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		249

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 166

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 249
2. Maximum number of ERCs * which can be served. 833
3. Present system connection capacity (in ERCs *) using existing lines. 833
4. Future connection capacity (in ERCs *) upon service area buildout. 833
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424009
12. Water Management District Consumptive Use Permit 6850
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,779	225	1,554	1,554
February		1,627	589	1,038	1,038
March		2,077	1,019	1,058	1,058
April		1,741	568	1,173	1,173
May		1,830	616	1,214	1,214
June		2,412	1,068	1,344	1,344
July		2,065	1,086	979	979
August		1,714	373	1,341	1,341
September		1,463	436	1,027	1,027
October		1,293	600	693	693
November		1,428	522	906	906
December		1,337	433	904	904
Total for Year	-	20,766	7,535	13,231	13,231

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	56,200,000 *	56,893	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 153,973

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	206	206
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/14"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	1	30
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		244

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 149

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 244
2. Maximum number of ERCs * which can be served. 716
3. Present system connection capacity (in ERCs *) using existing lines. 646
4. Future connection capacity (in ERCs *) upon service area buildout. 646
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424691
12. Water Management District Consumptive Use Permit # 3093
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,796	630	1,166	1,166
February		1,877	610	1,267	1,267
March		1,799	506	1,293	1,293
April		2,825	1,374	1,451	1,451
May		2,873	986	1,887	1,887
June		1,945	179	1,766	1,766
July		1,931	426	1,505	1,505
August		2,028	180	1,848	1,848
September		1,969	166	1,803	1,803
October		2,322	1,163	1,159	1,159
November		2,091	414	1,677	1,677
December		2,109	501	1,608	1,608
Total for Year	-	25,565	7,135	18,430	18,430

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	120,888,000	50,500	Ground Water
Well	46,778,400	19,541	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 459,360

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	262	262
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		262

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 193

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 262
2. Maximum number of ERCs * which can be served. 277
3. Present system connection capacity (in ERCs *) using existing lines. 277
4. Future connection capacity (in ERCs *) upon service area buildout. 277
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421118
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WASTEWATER OPERATION SECTION

THE COMPANY DOES NOT PROVIDE WASTEWATER SERVICES

Reconciliation of Revenue to Regulatory Assessment Fee Revenue

Water Operations

Class A & B

Company:

For the Year Ended December 31, 2017

(a) Accounts	(b) Gross Water Revenues Per Sch. W-9	(c) Gross Water Revenues Per RAF Return	(d) Difference (b) - (c)
Gross Revenue:			
Unmetered Water Revenues (460)	$ 1,100,526	$ 1,100,526	$
Total Metered Sales (461.1 - 461.5)			
Total Fire Protection Revenue (462.1 - 462.2)			
Other Sales to Public Authorities (464)			
Sales to Irrigation Customers (465)			
Sales for Resale (466)			
Interdepartmental Sales (467)			
Total Other Water Revenues (469 - 474)			
Total Water Operating Revenue	$ 1,100,526	$ 1,100,526	$
LESS: Expense for Purchased Water from FPSC-Regulated Utility			
Net Water Operating Revenues	$ 1,100,526	$ 1,100,526	$

Explanations:

Instructions:

For the current year, reconcile the gross water revenues reported on Schedule W-9 with the gross water revenues reported on the company's regulatory assessment fee return. Explain any differences reported in column (d).

CLASS "A" OR "B"

WATER AND/OR WASTEWATER UTILITIES
(Gross Revenue of More Than $200,000 Each)

ANNUAL REPORT

OF

Sunshine Utilities of Central Florida, Inc.
Exact Legal Name of Respondent

363-W
Certificate Number(s)

Submitted To The

STATE OF FLORIDA

PUBLIC SERVICE COMMISSION

FOR THE

YEAR ENDED December 31, 2021

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GENERAL INSTRUCTIONS

1. Prepare this report in conformity with the 1996 National Association of Regulatory Utility Commissioners Uniform System of Accounts for Water and/or Wastewater Utilities (USOA).

2. Interpret all accounting words and phrases in accordance with the USOA.

3. Complete each question fully and accurately, even if it has been answered in a previous annual report. Enter the word "None" where it truly and completely states the fact.

4. For any question, section, or page which is not applicable to the respondent, enter the words "Not Applicable". Do not omit any pages.

5. Where dates are called for, the month and day should be stated as well as the year.

6. All schedules requiring dollar entries should be rounded to the nearest dollar unless otherwise specifically indicated.

7. Complete this report by means which result in a permanent record, such as by computer or typewriter.

8. If there is not enough room on any schedule, an additional page or pages may be added; provided the format of the added schedule matches the format of the schedule with not enough room. Such a schedule should reference the appropriate schedules, state the name of the utility, and state the year of the report.

9. If it is necessary or desirable to insert additional statements for the purpose of further explanation of schedules, such statement should be made at the bottom of the page or an additional page inserted. Any additional pages should state the name of the utility, the year of the report, and reference the appropriate schedule.

10. For water and wastewater utilities with more than one rate group and/or system, water and wastewater pages should be completed for each rate group and/or system group. These pages should be grouped together and tabbed by rate group and/or system.

11. All other water and wastewater operations not regulated by the Commission and other regulated industries should be reported as "Other than Reporting Systems".

12. Financial information for multiple systems charging rates which are covered under the same tariff should be reported as one system. However, the engineering data must be reported by individual system.

13. For water and wastewater utilities with more than one system, one (1) copy of workpapers showing the consolidation of systems for the operating sections, should be filed with the annual report.

14. The report should be filled out in quadruplicate and the original and two copies returned by March 31, of the year following the date of the report. The report should be returned to:

Florida Public Service Commission
Division of Economic Regulation
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

The fourth copy should be retained by the utility.

TABLE OF CONTENTS

TABLE OF CONTENTS

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EXECUTIVE SUMMARY

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UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

CERTIFICATION OF ANNUAL REPORT

I HEREBY CERTIFY, to the best of my knowledge and belief:

YES	NO		
X		1.	The utility is in substantial compliance with the Uniform System of Accounts prescribed by the Florida Public Service Commission.
X		2.	The utility is in substantial compliance with all applicable rules and orders of the Florida Public Service Commission.
X		3.	There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices that could have a material effect on the the financial statement of the utility.
X		4.	The annual report fairly represents the financial condition and results of operations of the respondent for the period presented and other information and statements presented in the the report as to the business affairs of the respondent are true, correct and complete for the period for which it represents.

Items Certified

1.	2.	3.	4.
X	X	X	X

(Signature of Chief Executive Officer of the utility) *

1.	2.	3.	4.

(Signature of Chief Financial Officer of the utility) *

* Each of the four items must be certified YES or NO. Each item need not be certified by both officers. The items being certified by the officer should be indicated in the appropriate area to the left of the signature.

NOTICE: Section 837.06, Florida Statutes, provides that any person who knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his duty shall be guilty of a misdemeanor of the second degree.

ANNUAL REPORT OF

YEAR OF REPORT
December 31, 2021

Sunshine Utilities of Central Florida, Inc. County: Marion
(Exact Name of Utility)

List below the exact mailing address of the utility for which normal correspondence should be sent:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228
E Mail Address:
WEB Site:

Sunshine State One-Call of Florida, Inc. Member Number SU-1134

Name and address of person to whom correspondence concerning this report should be addressed:
John Q. Adams II, CPA
Adams & Company, P.A.
2637 E Atlantic Blvd #43374
Pompano Beach, FL 33062
Telephone: (352) 804-2291

List below the address of where the utility's books and records are located:
10230 E Highway 25
Bellview, Florida 34420

Telephone: 352 347-8228

List below any groups auditing or reviewing the records and operations:

Date of original organization of the utility: September 01, 1974

Check the appropriate business entity of the utility as filed with the Internal Revenue Service

Individual	Partnership	Sub S Corporation	1120 Corporation
		X	

List below every corporation or person owning or holding directly or indirectly 5% or more of the voting securities of the utility:

	Name	Percent Ownership
1.	"Hodges Family Trust - Christmas" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
2.	"Hodges Family Trust - Hodges" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
3.	"Hodges Family Trust - Rosin" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
4.	"Hodges Family Trust - Stone" - Dewaine Christmas & James Hodges Jr. Co-trustees	25%
5.	Trust split into four separate trust pursuant to QSST election IRC 1361 while maintaining	
6.	control by the co-trustees for the sole beneficiary of Clarise Hodges.	
7.		
8.		
9.		
10.		

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

DIRECTORY OF PERSONNEL WHO CONTACT THE FLORIDA PUBLIC SERVICE COMMISSION

NAME OF COMPANY REPRESENTATIVE (1)	TITLE OR POSITION (2)	ORGANIZATIONAL UNIT TITLE (3)	USUAL PURPOSE FOR CONTACT WITH FPSC
Dewaine W. Christmas	President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Pamela N. Christmas	Secretary	Sunshine Utilities of Central Florida, Inc	All Utility Matters
John Q. Adams, II	CPA	Adams & Company, P.A. 352-804-2291	Rate and Accounting Matters
James H Hodges, Jr.	Vice President	Sunshine Utilities of Central Florida, Inc	All Utility Matters
Jane M. Rop	Treasurer	Sunshine Utilities of Central Florida, Inc	All Utility Matters

(1) Also list appropriate legal counsel, accountants and others who may not be on general payroll.
(2) Provide individual telephone numbers if the person is not normally reached at the company.
(3) Name of company employed by if not on general payroll.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

COMPANY PROFILE

Provide a brief narrative company profile which covers the following areas:

A. Brief company history.
B. Public services rendered.
C. Major goals and objectives.
D. Major operating divisions and functions.
E. Current and projected growth patterns.
F. Major transactions having a material effect on operations.

A. The company was organized to provide potable water service to various subdivisions in Marion and Citrus Counties

B. The company provides water treatement and distribution services to customers in its certicated area.

C. The primary goal of the Company is to continue rendering quality service to its existing customers.

D. The Company provides water treatement and distribution services, only in Marion and Citrus Counties.

E. The Company expects to continue an average growth rate of approximately 1%.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

PARENT / AFFILIATE ORGANIZATION CHART

Current as of December 31, 2021

Complete below an organizational chart that show all parents, subsidiaries and affiliates of the utility.
The chart must also show the relationship between the utility and affiliates listed on E-7, E-10(a) and E-10(b).

Sunshine Utilities of Central Florida, Inc

Sunshine Utilities
(Marion County Division)

Heights Water Company
(Citrus County Division)
(NOT REGULATED BY PSC)

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

COMPENSATION OF OFFICERS

For each officer, list the time spent on respondent as an officer compared to time spent on total business activities and the compensation received as an officer from the respondent.

NAME (a)	TITLE (b)	% OF TIME SPENT AS OFFICER OF THE UTILITY (c)	OFFICERS' COMPENSATION (d)
Dewaine W. Christmas	President	100%	$ 65,340
James H. Hodges, Jr.	Vice President	100%	65,115
Pamela N. Christmas	Secretary	100%	48,446
Jane M. Rop	Treasurer	100%	47,383

COMPENSATION OF DIRECTORS

For each director, list the number of director meetings attended by each director and the compensation received as a director from the respondent.

NAME (a)	TITLE (b)	NUMBER OF DIRECTORS' MEETINGS ATTENDED (c)	DIRECTORS' COMPENSATION (d)
Dewaine W. Christmas	Director	100%	$ None
James H. Hodges, Jr.	Director	100%	None

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

BUSINESS CONTRACTS WITH OFFICERS, DIRECTORS AND AFFILIATES

List all contracts, agreements, or other business arrangements* entered into during the calendar year (other than compensation related to position with Respondents) between the Respondent and officer and director listed on page E-6. In addition, provide the same information with respect to professional services for each firm, partnership, or organization with which the officer or director is affiliated.

NAME OF OFFICER, DIRECTOR OR AFFILIATE (a)	IDENTIFICATION OF SERVICE OR PRODUCT (b)	AMOUNT (c)	NAME AND ADDRESS OF AFFILIATED ENTITY (d)
None		$ -	

* Business Agreement, for this schedule, shall mean any oral or written business deal which binds the concerned parties for products or services during the reporting year or future years. Although the Respondent and/or other companies will benefit from the arrangement, the officer or director is, however, acting on his behalf or for the benefit of other companies or persons.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

AFFILIATION OF OFFICERS AND DIRECTORS

For each of the officials listed on page E-6, list the principal occupation or business affiliations or connections with any other business or financial organizations, firms, or partnerships. For purposes of this part, an official will be considered to have an affiliation with any business or financial organization, firm or partnership in which he is an officer, director, trustee, partner, or a person exercising similar functions.

NAME (a)	PRINCIPAL OCCUPATION OR BUSINESS AFFILIATION (b)	AFFILIATION OR CONNECTION (c)	NAME AND ADDRESS OF AFFILIATION OR CONNECTION (d)
None			

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

BUSINESSES WHICH ARE A BY-PRODUCT, COPRODUCT OR JOINT-PRODUCT RESULT OF PROVIDING WATER OR WASTEWATER SERVICE

Complete the following for any business which is conducted as a byproduct, coproduct, or joint product as a result of providing water and / or wastewater service. This would include any business which requires the use of utility land and facilities. Examples of these types of businesses would be orange groves, nurseries, tree farms, fertilizer manufacturing, etc. This would not include any business for which the assets are properly included in Account 121 - Nonutility Property along with the associated revenue and expenses segregated out as nonutility also.

	ASSETS		REVENUES		EXPENSES	
BUSINESS OR SERVICE CONDUCTED (a)	BOOK COST OF ASSETS (b)	ACCOUNT NUMBER (c)	REVENUES GENERATED (d)	ACCOUNT NUMBER (e)	EXPENSES INCURRED (f)	ACCOUNT NUMBER (g)
None	$		$		$	

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

BUSINESS TRANSACTIONS WITH RELATED PARTIES

List each contract, agreement, or other business transaction exceeding a cumulative amount of $500 in any on year, entered into between the Respondent and a business or financial organization, firm, or partnership named on pages E-2 and E-6, identifying the parties, amounts, dates and product, and asset, or service involved.

Part I. Specific Instructions: Services and Products Received or Provided

1. Enter in this part all transactions involving services and products received or provided.

2. Below are some types of transactions to include:
   - -management, legal and accounting services
   - -computer services
   - -engineering & construction services
   - -repairing and servicing of equipment
   - -material and supplies furnished
   - -leasing of structures, land, and equipment
   - -rental transactions
   - -sale, purchase or transfer of various products

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION SERVICE AND/OR NAME OF PRODUCT (b)	CONTRACT OR AGREEMENT EFFECTIVE DATES (c)	ANNUAL CHARGES (P)urchased (S)old (d)	ANNUAL CHARGES AMOUNT (e)
CH Utility Holdings, LLC	Lot Lease	7/10/2014		$ 105,707
CH Office Holdings, LLC	Office Lease	7/10/2014		9,244

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

BUSINESS TRANSACTIONS WITH RELATED PARTIES (Cont'd)

Part II. Specific Instructions: Sale, Purchase and Transfer of Assets

1. Enter in this part all transactions relating to the purchase, sale, or transfer of assets.

2 Below are examples of some types of transactions to include:
- -purchase, sale or transfer of equipment
- -purchase, sale or transfer of land and structures
- -purchase, sale or transfer of securities
- -noncash transfers of assets
- -noncash dividends other than stock dividends
- -write-off of bad debts or loans

3. The columnar instructions follow:

(a) Enter name of related party or company.
(b) Describe briefly the type of assets purchased, sold or transferred.
(c) Enter the total received or paid. Indicate purchase with "P" and sale with "S".
(d) Enter the net book value for each item reported.
(e) Enter the net profit or loss for each item reported. (column (c) - column (d))
(f) Enter the fair market value for each item reported. In space below or in a supplemental schedule, describe the basis used to calculate fair market value.

NAME OF COMPANY OR RELATED PARTY (a)	DESCRIPTION OF ITEMS (b)	SALE OR PURCHASE PRICE (c)	NET BOOK VALUE (d)	GAIN OR LOSS (e)	FAIR MARKET VALUE (f)
None		$	$	$	$

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FINANCIAL SECTION

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	UTILITY PLANT			
101-106	Utility Plant	F-7	$ 3,432,374	$ 3,442,725
108-110	Less: Accumulated Depreciation and Amortization	F-8	2,692,153	2,731,306
	Net Plant		$ 740,221	$ 711,419
114-115	Utility Plant Acquisition adjustment (Net)	F-7	17,157	16,411
116 *	Other Utility Plant Adjustments			
	Total Net Utility Plant		$ 757,378	$ 727,830
	OTHER PROPERTY AND INVESTMENTS			
121	Nonutility Property	F-9	$ 0	$ 0
122	Less: Accumulated Depreciation and Amortization		0	0
	Net Nonutility Property		$ 0	$ 0
123	Investment in Associated Companies	F-10		
124	Utility Investments	F-10		
125	Other Investments	F-10		
126-127	Special Funds	F-10		
	Total Other Property & Investments		$ 0	$ 0
	CURRENT AND ACCRUED ASSETS			
131	Cash		$ 51,214	$ 47,810
132	Special Deposits	F-9	64,596	64,690
133	Other Special Deposits	F-9		0
134	Working Funds			
135	Temporary Cash Investments			
141-144	Accounts and Notes Receivable, Less Accumulated Provision for Uncollectible Accounts	F-11	21,259	21,047
145	Accounts Receivable from Associated Companies	F-12		
146	Notes Receivable from Associated Companies	F-12		
151-153	Material and Supplies			
161	Stores Expense			
162	Prepayments		705	234
171	Accrued Interest and Dividends Receivable			
172 *	Rents Receivable			
173 *	Accrued Utility Revenues			
174	Miscellaneous Current and Accrued Assets	F-12		
	Total Current and Accrued Assets		$ 137,774	$ 133,781

* Not Applicable for Class B Utilities

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

COMPARATIVE BALANCE SHEET
ASSETS AND OTHER DEBITS

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED DEBITS			
181	Unamortized Debt Discount & Expense	F-13	$	$
182	Extraordinary Property Losses	F-13		
183	Preliminary Survey & Investigation Charges		-	-
184	Clearing Accounts		-	-
185 *	Temporary Facilities		-	-
186	Miscellaneous Deferred Debits	F-14	19,937	56,949
187 *	Research & Development Expenditures		-	-
190	Accumulated Deferred Income Taxes		-	-
	Total Deferred Debits		$ 19,937	$ 56,949
	TOTAL ASSETS AND OTHER DEBITS		$ 915,089	$ 918,560

* Not Applicable for Class B Utilities

NOTES TO THE BALANCE SHEET

The space below is provided for important notes regarding the balance sheet.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	EQUITY CAPITAL			
201	Common Stock Issued	F-15	$ 100	$ 100
204	Preferred Stock Issued	F-15	-	-
202,205 *	Capital Stock Subscribed			
203,206 *	Capital Stock Liability for Conversion			
207 *	Premium on Capital Stock			
209 *	Reduction in Par or Stated Value of Capital Stock			
210 *	Gain on Resale or Cancellation of Reacquired Capital Stock			
211	Other Paid - In Capital		474,492	474,492
212	Discount On Capital Stock			
213	Capital Stock Expense			
214-215	Retained Earnings	F-16	(335,074)	(264,365)
216	Reacquired Capital Stock			
218	Proprietary Capital (Proprietorship and Partnership Only)			
	Total Equity Capital		$ 139,518	$ 210,227
	LONG TERM DEBT			
221	Bonds	F-15		
222 *	Reacquired Bonds			
223	Advances from Associated Companies	F-17	-	-
224	Other Long Term Debt	F-17	37,628	17,473
	Total Long Term Debt		$ 37,628	$ 17,473
	CURRENT AND ACCRUED LIABILITIES			
231	Accounts Payable		83,591	61,484
232	Notes Payable	F-18	110,511	103,857
233	Accounts Payable to Associated Companies	F-18	-	-
234	Notes Payable to Associated Companies	F-18	-	-
235	Customer Deposits		64,280	64,690
236	Accrued Taxes	W/S-3	1,841	-
237	Accrued Interest	F-19	(444)	(189)
238	Accrued Dividends		-	-
239	Matured Long Term Debt			
240	Matured Interest			
241	Miscellaneous Current & Accrued Liabilities	F-20	30,685	29,383
	Total Current & Accrued Liabilities		$ 290,464	$ 259,225

* Not Applicable for Class B Utilities

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE BALANCE SHEET
EQUITY CAPITAL AND LIABILITIES

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	DEFERRED CREDITS			
251	Unamortized Premium On Debt	F-13	$ -	$ -
252	Advances For Construction	F-20	-	-
253	Other Deferred Credits	F-21	-	-
255	Accumulated Deferred Investment Tax Credits			
	Total Deferred Credits		$ -	$ -
	OPERATING RESERVES			
261	Property Insurance Reserve		$	$
262	Injuries & Damages Reserve			
263	Pensions and Benefits Reserve			
265	Miscellaneous Operating Reserves			
	Total Operating Reserves		$ -	$ -
	CONTRIBUTIONS IN AID OF CONSTRUCTION			
271	Contributions in Aid of Construction	F-22	$ 2,021,509	$ 2,050,313
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	(1,574,030)	(1,618,678)
	Total Net C.I.A.C.		$ 447,479	$ 431,635
	ACCUMULATED DEFERRED INCOME TAXES			
281	Accumulated Deferred Income Taxes - Accelerated Depreciation		$	$
282	Accumulated Deferred Income Taxes - Liberalized Depreciation			
283	Accumulated Deferred Income Taxes - Other			
	Total Accumulated Deferred Income Tax		$ -	$ -
	TOTAL EQUITY CAPITAL AND LIABILITIES		$ 915,089	$ 918,560

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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COMPARATIVE OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR * (e)
	UTILITY OPERATING INCOME			
400	Operating Revenues	F-3(b)	$ 1,137,310	$ 1,118,979
469, 530	Less: Guaranteed Revenue and AFPI	F-3(b)	-	-
	Net Operating Revenues		$ 1,137,310	$ 1,118,979
401	Operating Expenses	F-3(b)	$ 977,997	$ 978,605
403	Depreciation Expense:	F-3(b)	$ 75,218	$ 69,029
	Less: Amortization of CIAC	F-22	53,116	44,648
	Net Depreciation Expense		$ 22,102	$ 24,381
406	Amortization of Utility Plant Acquisition Adjustment	F-3(b)	746	746
407	Amortization Expense (Other than CIAC)	F-3(b)	-	-
408	Taxes Other Than Income	W/S-3	99,232	99,392
409	Current Income Taxes	W/S-3	-	-
410.10	Deferred Federal Income Taxes	W/S-3	-	-
410.11	Deferred State Income Taxes	W/S-3	-	-
411.10	Provision for Deferred Income Taxes - Credit	W/S-3	-	-
412.10	Investment Tax Credits Deferred to Future Periods	W/S-3	-	-
412.11	Investment Tax Credits Restored to Operating Income	W/S-3	-	-
	Utility Operating Expenses		$ 1,100,077	$ 1,103,124
	Net Utility Operating Income		$ 37,233	$ 15,855
469, 530	Add Back: Guaranteed Revenue and AFPI	F-3(b)	-	-
413	Income From Utility Plant Leased to Others		-	-
414	Gains (losses) From Disposition of Utility Property		(15,372)	-
420	Allowance for Funds Used During Construction		-	-
	Total Utility Operating Income [Enter here and on Page F-3(c)]		$ 21,861	$ 15,855

* For each account, Column e should agree with Columns f, g and h on F-3(b)

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE OPERATING STATEMENT (Cont'd)

WATER SCHEDULE W-3 * (f)	WASTEWATER SCHEDULE S-3 * (g)	OTHER THAN REPORTING SYSTEMS (h)
$ 1,118,979	$ -	$ - *
-	$ -	
$ 1,118,979	$ -	$ -
$ 978,605	$ -	$ - *
69,029	$ -	- *
44,648	$ -	- *
$ 24,381	$ -	$ -
746	$ -	- *
-	$ -	
99,392	$ -	- *
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
-	$ -	
$ 1,103,124	$ -	$ -
$ 15,855	$ -	$ -
-	$ -	
-	$ -	
-	$ -	-
-	$ -	
$ 15,855	$ -	$ -

* Total of Schedules W-3 / S-3 for all rate groups.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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COMPARATIVE OPERATING STATEMENT (Cont'd)

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
Total Utility Operating Income [from page F-3(a)]			$ 21,861	$ 15,855
	OTHER INCOME AND DEDUCTIONS			
415	Revenues-Merchandising, Jobbing, and Contract Deductions		$	$
416	Costs & Expenses of Merchandising Jobbing, and Contract Work			
419	Interest and Dividend Income		-	-
421	Nonutility Income		9,186	62,821
426	Miscellaneous Nonutility Expenses		-	(1,010)
	Total Other Income and Deductions		$ 9,186	$ 61,811
	TAXES APPLICABLE TO OTHER INCOME			
408.20	Taxes Other Than Income		$	$
409.20	Income Taxes			
410.20	Provision for Deferred Income Taxes			
411.20	Provision for Deferred Income Taxes - Credit			
412.20	Investment Tax Credits - Net			
412.30	Investment Tax Credits Restored to Operating Income			
	Total Taxes Applicable To Other Income		$ -	$ -
	INTEREST EXPENSE			
427	Interest Expense	F-19	$ (7,350)	$ (6,957)
428	Amortization of Debt Discount & Expense	F-13		
429	Amortization of Premium on Debt	F-13		
	Total Interest Expense		$ (7,350)	$ (6,957)
	EXTRAORDINARY ITEMS			
433	Extraordinary Income		$	$
434	Extraordinary Deductions			
409.30	Income Taxes, Extraordinary Items			
	Total Extraordinary Items		$ -	$ -
	NET INCOME		$ 23,697	$ 70,709

Explain Extraordinary Income:

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SCHEDULE OF YEAR END RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	WATER UTILITY (d)	WASTEWATER UTILITY (e)
101	Utility Plant In Service	F-7	$ 3,442,725	$ -
	Less: Nonused and Useful Plant (1)		57,604	
108	Accumulated Depreciation	F-8	2,731,306	-
110	Accumulated Amortization	F-8	-	-
271	Contributions in Aid of Construction	F-22	2,050,313	-
252	Advances for Construction	F-20	-	
	Subtotal		$ (1,396,498)	$ -
272	Add: Accumulated Amortization of Contributions in Aid of Construction	F-22	1,618,678	-
	Subtotal		$ 222,180	$ -
	Plus or Minus:			
114	Acquisition Adjustments (2)	F-7	29,838	-
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(13,427)	-
	Working Capital Allowance (3)		122,326	-
	Other (Specify):			
105	Construction in Process		-	-
	RATE BASE		$ 360,917	$ -
	NET UTILITY OPERATING INCOME		$ 15,855	$ -
	ACHIEVED RATE OF RETURN (Operating Income / Rate Base)		4.39%	

NOTES :

(1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

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SCHEDULE OF CURRENT COST OF CAPITAL
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING (1)

CLASS OF CAPITAL (a)	DOLLAR AMOUNT (2) (b)	PERCENTAGE OF CAPITAL (c)	ACTUAL COST RATES (3) (d)	WEIGHTED COST (c x d) (e)
Common Equity	$ 100	-		
Preferred Stock		-		
Long Term Debt		-		
Customer Deposits		-		
Tax Credits - Zero Cost		-		
Tax Credits - Weighted Cost		-		
Deferred Income Taxes		-		
Other (Explain)		-		
		-		
Total	$ 100			

(1) If the utility's capital structure is not used, explain which capital structure is used.

(2) Should equal amounts on Schedule F-6, Column (g).

(3) Mid-point of the last authorized Return On Equity or current leverage formula if none has been established.

Must be calculated using the same methodology used in the last rate proceeding using current annual report year end amounts and cost rates.

APPROVED RETURN ON EQUITY

Current Commission Return on Equity:	9.13
Commission order approving Return on Equity:	12-0357-PAA-WU

APPROVED AFUDC RATE

COMPLETION ONLY REQUIRED IF AFUDC WAS CHARGED DURING YEAR

Current Commission Approved AFUDC rate:	9.13%
Commission order approving AFUDC rate:	12-0357-PPA-WU

If any utility capitalized any charge in lieu of AFUDC (such as interest only), state the basis of the charge, an explanation as to why AFUDC was not charged and the percentage capitalized.

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SCHEDULE OF CAPITAL STRUCTURE ADJUSTMENTS
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING

CLASS OF CAPITAL (a)	PER BOOK BALANCE (b)	NON-UTILITY ADJUSTMENTS (c)	NON-JURISDICTIONAL ADJUSTMENTS (d)	OTHER (1) ADJUSTMENTS SPECIFIC (e)	OTHER (1) ADJUSTMENTS PRO RATA (f)	CAPITAL STRUCTURE (g)
Common Equity	$ 100	$	$	$	$	$
Preferred Stock						
Long Term Debt						
Customer Deposits						
Tax Credits - Zero Cost						
Tax Credits - Weighted Cost						
Deferred Inc. Taxes						
Other (Explain)						
Total	$ 100	$	$	$	$	$

(1) Explain below all adjustments made in Columns (e) and (f):

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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UTILITY PLANT
ACCOUNTS 101 - 106

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
	Plant Accounts:				
101	Utility Plant In Service	$ 3,442,725	$	$ -	$ 3,442,725
102	Utility Plant Leased to Other				-
103	Property Held for Future Use				-
104	Utility Plant Purchased or Sold				-
105	Construction Work in Progress	-			-
106	Completed Construction Not Classified				-
	Total Utility Plant	$ 3,442,725	$ -	$ -	$ 3,442,725

UTILITY PLANT ACQUISITION ADJUSTMENTS
ACCOUNTS 114 AND 115

Report each acquisition adjustment and related accumulated amortization separately.
For any acquisition adjustments approved by the Commission, include the Order Number.

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
114	Acquisition Adjustment Heights Water Company	$ 10,000			$ 10,000
	Acq Adj - Sandy Acres	39,523			39,523
	Acq Adj - Quail Run	(19,685)			(19,685)
	Acq Adj - Comm. Water			-	-
					-
Total Plant Acquisition Adjustments		$ 29,838	$ -	$ -	$ 29,838
115	Accumulated Amortization AA Heights Water Company	$ 4,500			$ 4,500
	AA Acq Adj - Sandy Acres	17,785			17,785
	AA Acq Adj - Quail Run	(8,858)			(8,858)
	AA Acq Adj - Comm. Water			-	-
					-
Total Accumulated Amortization		$ 13,427	$ -	$ -	$ 13,427
Net Acquisition Adjustments		$ 16,411	$ -	$ -	$ 16,411

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ACCUMULATED DEPRECIATION (ACCT. 108) AND AMORTIZATION (ACCT. 110)

DESCRIPTION (a)	WATER (b)	WASTEWATER (c)	OTHER THAN REPORTING SYSTEMS (d)	TOTAL (e)
ACCUMULATED DEPRECIATION Account 108				
Balance first of year	$ 2,686,159	$	$	$ 2,686,159
Credit during year:				
Accruals charged to:				
Account 108.1 (1)	$ 69,029	$	$	$ 69,029
Account 108.2 (2)				-
Account 108.3 (2)				-
Other Accounts (specify):				-
				-
				-
Salvage	-			-
Other Credits (Specify):	-			-
as per auditor auditor adjustment				-
Total Credits	$ 69,029	$ -	$ -	$ 69,029
Debits during year:				
Book cost of plant retired	23,882			23,882
Cost of Removal				-
Other Debits (specify):				-
				-
				-
Total Debits	$ 23,882	$ -	$ -	$ 23,882
Balance end of year	$ 2,731,306	$ -	$ -	$ 2,731,306
ACCUMULATED AMORTIZATION Account 110				
Balance first of year	$	$	$	$ -
Credit during year:				
ruals charged to:				
	$	$	$	$ -
Account 110.2 (3)				-
Other Accounts (specify):				-
				-
Total credits	$ -	$ -	$ -	$ -
Debits during year:				
Book cost of plant retired				-
Other debits (specify):				-
				-
Total Debits	$ -	$ -	$ -	$ -
Balance end of year	$ -	$ -	$ -	$ -

(1) Account 108 for Class B utilities.

(2) Not applicable for Class B utilities.

(3) Account 110 for Class B utilities.

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REGULATORY COMMISSION EXPENSE
AMORTIZATION OF RATE CASE EXPENSE (ACCOUNTS 666 AND 766)

DESCRIPTION OF CASE (DOCKET NO.) (a)	EXPENSE INCURRED DURING YEAR (b)	CHARGED OFF DURING YEAR	
		ACCT. (d)	AMOUNT (e)
100048-WU	$ -	0	$
Total	$		$

NONUTILITY PROPERTY (ACCOUNT 121)

Report separately each item of property with a book cost of $25,000 or more included in Account 121.
Other Items may be grouped by classes of property.

DESCRIPTION (a)	BEGINNING YEAR (b)	ADDITIONS (c)	REDUCTIONS (d)	ENDING YEAR BALANCE (e)
None	$	$	$	$
Total Nonutility Property	$ -	$ -	$ -	$ -

SPECIAL DEPOSITS (ACCOUNTS 132 AND 133)

Report hereunder all special deposits carried in Accounts 132 and 133.

DESCRIPTION OF SPECIAL DEPOSITS (a)	YEAR END BOOK COST (b)
SPECIAL DEPOSITS (Account 132):	
Customer Deposits	$ 64,690
Total Special Deposits	$ 64,690
OTHER SPECIAL DEPOSITS (Account 133):	
Interim Rate Reserve	$ -
Health Insurance Co-Pay	-
Total Other Special Deposits	$ -

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INVESTMENTS AND SPECIAL FUNDS
ACCOUNTS 123 - 127

Report hereunder all investments and special funds carried in Accounts 123 through 127.

DESCRIPTION OF SECURITY OR SPECIAL FUND (a)	FACE OR PAR VALUE (b)	YEAR END BOOK COST (c)
INVESTMENT IN ASSOCIATED COMPANIES (Account 123):	$	$
None		
Total Investment in Associated Companies		$
UTILITY INVESTMENTS (Account 124):	$	$
None		
Total Utility Investment		$
OTHER INVESTMENTS (Account 125):	$	$
None		
Total Other Investment		$
SPECIAL FUNDS (Class A Utilities: Accounts 126 and 127; Class B Utilities: Account 127):		$
None		
Total Special Funds		$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCOUNTS AND NOTES RECEIVABLE - NET
ACCOUNTS 141 - 144

Report hereunder all accounts and notes receivable included in Accounts 141, 142, and 144. Amounts included in Amounts included in Accounts 142 and 144 should be listed individually.

DESCRIPTION (a)		TOTAL (b)
CUSTOMER ACCOUNTS RECEIVABLE (Account 141):		
Water	$ 19,030	
Wastewater		
Other		
Total Customer Accounts Receivable		$ 19,030
OTHER ACCOUNTS RECEIVABLE (Account 142):		
Employee accounts receivable	$ 2,017	
Total Other Accounts Receivable		$ 2,017
NOTES RECEIVABLE (Account 144):		
	$	
None		
Total Notes Receivable		$ -
Total Accounts and Notes Receivable		$ 21,047
ACCUMULATED PROVISION FOR UNCOLLECTIBLE ACCOUNTS (Account 143)		
Balance first of year	$	
Add: Provision for uncollectibles for current year	$	
Collection of accounts previously written off		
Utility Accounts		
Others		
Total Additions	$	
Deduct accounts written off during year:		
Utility Accounts		
Others		
Total accounts written off	$	
Balance end of year		$ -
TOTAL ACCOUNTS AND NOTES RECEIVABLE - NET		$ 21,047

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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ACCOUNTS RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 145

Report each account receivable from associated companies separately.

DESCRIPTION (a)	TOTAL (b)
None	$
Total	$

NOTES RECEIVABLE FROM ASSOCIATED COMPANIES
ACCOUNT 146

Report each note receivable from associated companies separately.

DESCRIPTION (a)	INTEREST RATE (b)	TOTAL (c)
None	%	$
Total		$

MISCELLANEOUS CURRENT AND ACCRUED ASSETS
ACCOUNT 174

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
None	$
Total Miscellaneous Current and Accrued Liabilities	$

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UNAMORTIZED DEBT DISCOUNT AND EXPENSE AND PREMIUM ON DEBT ACCOUNTS 181 AND 251

Report the net discount and expense or premium separately for each security issue.

DESCRIPTION (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
UNAMORTIZED DEBT DISCOUNT AND EXPENSE (Account 181):		
None		
Total Unamortized Debt Discount and Expense	$	$
UNAMORTIZED PREMIUM ON DEBT (Account 251):		
None		
Total Unamortized Premium on Debt	$	$ -

EXTRAORDINARY PROPERTY LOSSES ACCOUNT 182

Report each item separately.

DESCRIPTION (a)	TOTAL (b)
None	
Total Extraordinary Property Losses	$

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MISCELLANEOUS DEFERRED DEBITS
ACCOUNT 186

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
DEFERRED RATE CASE EXPENSE (Class A Utilities: Account 186.1)		
	$	$ -
Total Deferred Rate Case Expense	$ -	$ -
OTHER DEFERRED DEBITS (Class A Utilities: Account 186.2):		
3 year well maintenance & testing	$ 8,887	47,845
5 year tank testing	4,450	9,104
Total Other Deferred Debits	$ 13,337	$ 56,949
REGULATORY ASSETS (Class A Utilities: Account. 186.3):		
	$	$
Total Regulatory Assets	$ -	$ -
TOTAL MISCELLANEOUS DEFERRED DEBITS	$ 13,337	$ 56,949

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CAPITAL STOCK
ACCOUNTS 201 AND 204*

DESCRIPTION (a)	RATE (b)	TOTAL (c)
COMMON STOCK		
Par or stated value per share	%	$ 1
Shares authorized		7,500
Shares issued and outstanding		100
Total par value of stock issued	%	$ 100
Dividends declared per share for year	%	$
PREFERRED STOCK		
Par or stated value per share	None %	$
Shares authorized		
Shares issued and outstanding		
Total par value of stock issued	%	$
Dividends declared per share for year	%	$

* Account 204 not applicable for Class B utilities.

BONDS
ACCOUNT 221

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total			$

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

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STATEMENT OF RETAINED EARNINGS

1. Dividends should be shown for each class and series of capital stock. Show amounts as dividends per share.
2. Show separately the state and federal income tax effect of items shown in Account No. 439.

ACCT. NO. (a)	DESCRIPTION (b)	AMOUNTS (c)
215	Unappropriated Retained Earnings:	
	Balance Beginning of Year	$ (335,074)
	Changes to Account:	
439	Adjustments to Retained Earnings (requires Commission approval prior to use):	
	Credits:	$ -
	Total Credits:	$ -
	Debits:	$
	Total Debits:	$ -
435	Balance Transferred from Income	$ 70,709
436	Appropriations of Retained Earnings:	
	Total Appropriations of Retained Earnings	$ -
	Dividends Declared:	
437	Preferred Stock Dividends Declared	
438	Common Stock Dividends Declared — Shareholder Distributions	-
	Total Dividends Declared	$ -
215	Year end Balance	$ (264,365)
214	Appropriated Retained Earnings (state balance and purpose of each appropriated amount at year end):	
214	Total Appropriated Retained Earnings	$ -
	Total Retained Earnings	$ (264,365)

Notes to Statement of Retained Earnings:

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ADVANCES FROM ASSOCIATED COMPANIES
ACCOUNT 223

Report each advance separately.

DESCRIPTION (a)	TOTAL (b)
None	$ -
Total	$ -

OTHER LONG-TERM DEBT
ACCOUNT 224

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
Devoloper Payments Due Harper Boulder Hill	0.00 %		$ 286
Developer Payments Due Albright Hilltop	0.00 %		7,946
Developer Payments Due Williamson Northwoods	0.00 %		1,271
Developer Payments Due Ellison Stonehill	0.00 %		278
Developer Payments Due Labuinger Silverwood Villa	0.00 %		-
Developer Payments Due Seyler Conventry	0.00 %		3,445
Developer Payments Due Lake Bryant Estates	0.00 %		3,635
Developer Payments Due Albright Lake Weir Hgts 2nd Add	0.00 %		612
Developer Payments Due Lexington Estates Developer AGR	0.00 %		-
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total			$ 17,473

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

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NOTES PAYABLE
ACCOUNTS 232 AND 234

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
NOTES PAYABLE (Account 232):	%		$ -
L/P Kyocera Copier	0.00 %	Fixed	2,067
Line of Credit	5.25 %	Prime + 2%	92,300
Loan Payable Dewaine Christmas	0.00 %		5,000
Loan Payable James Hodges Jr.	0.00 %		4,490
	%		
	%		
	%		
Total Account 232			$ 103,857
NOTES PAYABLE TO ASSOC. COMPANIES (Account 234):	%		$
None	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total Account 234			$ -

* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

ACCOUNTS PAYABLE TO ASSOCIATED COMPANIES
ACCOUNT 233

Report each account payable separately.

DESCRIPTION (a)	TOTAL (b)
	$
None	
Total	$ -

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ACCRUED INTEREST AND EXPENSE
ACCOUNTS 237 AND 427

DESCRIPTION OF DEBIT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR ACCT. DEBIT (c)	INTEREST ACCRUED DURING YEAR AMOUNT (d)	INTEREST PAID DURING YEAR (e)	BALANCE END OF YEAR (f)
ACCOUNT NO. 237.1 - Accrued Interest on Long Term Debt					
	$		$	$	$
	-	427.4	-	-	
		428	-	-	
Total Account 237.1	$ -		$ -	$ -	$ -
ACCOUNT NO. 237.2 - Accrued Interest on Other Liabilities					
Customer Deposits	$ (444)	427	$ 1,808	1,553	$ (189)
		427			
Line of Credit		427	5,149	5,149	
Total Account 237.2	$ (444)		$ 6,957	$ 6,702	$ (189)
Total Account 237 (1)	$ (444)		$ 6,957	$ 6,702	$ (189)
INTEREST EXPENSED:					
Total accrual Account 237		237	$ 6,957		
Less Capitalized Interest Portion of AFUDC:					
Net Interest Expensed to Account No. 427 (2)			$ 6,957		

(1) Must agree to F-2 (a), Beginning and Ending Balance of Accrued Interest.

(2) Must agree to F-3 (c), Current Year Interest Expense

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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MISCELLANEOUS CURRENT AND ACCRUED LIABILITIES
ACCOUNT 241

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
	$
Accrued Payroll	1,470
Pension & Benefit Reserve	27,913
Total Miscellaneous Current and Accrued Liabilities	$ 29,383

ADVANCES FOR CONSTRUCTION
ACCOUNT 252

NAME OF PAYOR * (a)	BALANCE BEGINNING OF YEAR (b)	DEBITS		CREDITS (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
	$	252	$		$ -
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252			-
		252	-		-
		252			-
		252	-		-
Total	$ -		$ -	$ -	$ -

* Report advances separately by reporting group, designating water or wastewater in column (a).

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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OTHER DEFERRED CREDITS
ACCOUNT 253

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
REGULATORY LIABILITIES (Class A Utilities: Account 253.1):		
None	$	$
Total Regulatory Liabilities	$ -	$ -
OTHER DEFERRED LIABILITIES (Class A Utilities: Account 253.2):		
None	$	$
Total Other Deferred Liabilities	$ -	$ -
TOTAL OTHER DEFERRED CREDITS	$ -	$ -

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	WATER (W-7) (b)	WASTEWATER (S-7) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 2,021,509	$ -	$ -	$ 2,021,509
Add credits during year:	$ 28,804		-	28,804
Less debit charged during the year	$	$ -	$ -	$ -
Total Contribution In Aid of Construction	$ 2,050,313	$ -	$ -	$ 2,050,313

ACCUMULATED AMORTIZATION OF CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 272

DESCRIPTION (a)	WATER (W-8(a)) (b)	WASTEWATER (S-8(a)) (c)	W & WW OTHER THAN SYSTEM REPORTING (d)	TOTAL (e)
Balance first of year	$ 1,574,030	$ -	$ -	$ 1,574,030
Debits during the year:	$ 44,648		-	$ 44,648
Credits during the year	$ -	$ -	$ -	$ -
Total Accumulated Amortization of Contributions In Aid of Construction	$ 1,618,678	$ -	$ -	$ 1,618,678

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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RECONCILIATION OF REPORTED NET INCOME WITH TAXABLE INCOME FOR FEDERAL INCOME TAXES (UTILITY OPERATIONS)

1. The reconciliation should include the same detail as furnished on Schedule M-1 of the federal tax return for the year. The reconciliation shall be submitted even though there is no taxable income for the year. Descriptions should clearly indicate the nature of each reconciling amount and show the computations of all tax accruals.

2. If the utility is a member of a group which files a consolidated federal tax return, reconcile reported net income with taxable net income as if a separate return were to be filed, indicating intercompany amounts to be eliminated in such consolidated return. State names of group members, tax assigned to each group member, and basis of allocation, assignments or sharing of the consolidated tax among the group members.

DESCRIPTION (a)	REF. NO. (b)	AMOUNT (c)
Net income for the year	F-3(c)	$
Reconciling items for the year:		
Taxable income not reported on books:		
		-
		-
		-
		-
Deductions recorded on books not deducted for return:		
Income recorded on books not included in return:		
		-
		-
		-
		-
Deduction on return not charged against book income:		
		-
		-
		-
		-
Federal tax net income		$ -

Computation of tax :

This Corporation is an "S" Corporation, therfore this schedule is not applicable

WATER
OPERATION
SECTION

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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WATER LISTING OF SYSTEM GROUPS

List below the name of each reporting system and its certificate number. Those systems which have been consolidated under the same tariff should be assigned a group number. Each individual system which has not been consolidated should be assigned its own group number.
The water financial schedules (W-2 through W-10) should be filed for the group in total.
The water engineering schedules (W-11 through W-14) must be filed for each system in the group.
All of the following water pages (W-2 through W-14) should be completed for each group and arranged by group number.

SYSTEM NAME / COUNTY	CERTIFICATE NUMBER	GROUP NUMBER
Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)	363W	1
Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines	363W	4

Note: On August 1, 1999 Citrus County took over monitoring responsibilties
Therefore Citrus County is no longer included in this report.

WATER
OPERATION
SECTION
GROUP 1

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 206,030
	Less: Nonused and Useful Plant (1)		621
108	Accumulated Depreciation	W-6(b)	93,191
110	Accumulated Amortization		-
271	Contributions in Aid of Construction	W-7	22,404
252	Advances for Construction	F-20	-
	Subtotal		$ 89,814
272	Add: Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 9,346
	Subtotal		$ 99,160
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	(9,685)
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	4,358
	Working Capital Allowance (3)		7,935
	Other (Specify):		
105	Construction in Process		-
	WATER RATE BASE		$ 101,768
	WATER OPERATING INCOME	W-3	$ 5,830
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		5.73%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 81,143
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 81,143
401	Operating Expenses	W-10(a)	$ 63,478
403	Depreciation Expense	W-6(a)	6,143
	Less: Amortization of CIAC	W-8(a)	705
	Net Depreciation Expense		$ 5,438
406	Amortization of Utility Plant Acquisition Adjustment	F-7	(242)
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		3,651
408.11	Property Taxes		1,385
408.12	Payroll Taxes		1,603
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 6,639
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 75,313
	Utility Operating Income		$ 5,830
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		-
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ 5,830

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ -	$		$ -
302	Franchises	-			-
303	Land and Land Rights	36,113			36,113
304	Structures and Improvements	5,207			5,207
305	Collecting and Impounding Reservoirs	-			-
306	Lake, River and Other Intakes	-			-
307	Wells and Springs	43,921			43,921
308	Infiltration Galleries and Tunnels	-			-
309	Supply Mains	-			-
310	Power Generation Equipment	-	20		20
311	Pumping Equipment	26,446	102	-	26,548
320	Water Treatment Equipment	7,551	854	(294)	8,111
330	Distribution Reservoirs and Standpipes	39,572			39,572
331	Transmission and Distribution Mains	11,648			11,648
333	Services	10,704	148		10,852
334	Meters and Meter Installations	12,356			12,356
335	Hydrants	-			-
336	Backflow Prevention Devices	-			-
339	Other Plant Miscellaneous Equipment	-			-
340	Office Furniture and Equipment	8,223	-	-	8,223
341	Transportation Equipment	1,874			1,874
342	Stores Equipment	-			-
343	Tools, Shop and Garage Equipment	1,549	36	-	1,585
344	Laboratory Equipment	-			-
345	Power Operated Equipment	-			-
346	Communication Equipment	-			-
347	Miscellaneous Equipment	-			-
349	Abandonment of Regional Plant	-			-
	TOTAL WATER PLANT	$ 205,164	$ 1,160	$ -294	$ 206,030

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ -	$ -	$	$	$	$
302	Franchises	-	-				
303	Land and Land Rights	36,113		36,113	-	-	-
304	Structures and Improvements	5,207		5,207	-	-	-
305	Collecting and Impounding Reservoirs	-		-			
306	Lake, River and Other Intakes	-		-			
307	Wells and Springs	43,921		43,921			
308	Infiltration Galleries and Tunnels	-		-			
309	Supply Mains	-		-			
310	Power Generation Equipment	20		20			
311	Pumping Equipment	26,548		26,548	-	-	
320	Water Treatment Equipment	8,111			8,111		
330	Distribution Reservoirs and Standpipes	39,572				39,572	
331	Transmission and Distribution Mains	11,648				11,648	
333	Services	10,852				10,852	
334	Meters and Meter Installations	12,356				12,356	
335	Hydrants	-				-	
336	Backflow Prevention Devices	-				-	
339	Other Plant Miscellaneous Equipment	-	-	-	-	-	
340	Office Furniture and Equipment	8,223					8,223
341	Transportation Equipment	1,874					1,874
342	Stores Equipment	-					-
343	Tools, Shop and Garage Equipment	1,585					1,585
344	Laboratory Equipment	-					
345	Power Operated Equipment	-					-
346	Communication Equipment	-					-
347	Miscellaneous Equipment	-					-
349	Abandonment of Regional Plant	-					-
	TOTAL WATER PLANT	$ 206,030	$ 0	$ 111,809	$ 8,111	$ 74,428	$ 11,682

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
	Water Plant Composite Depreciation Rate *			

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ -	$ -		$ -
304	Structures and Improvements	5,207	-		-
305	Collecting and Impounding Reservoirs	-			-
306	Lake, River and Other Intakes	-			-
307	Wells and Springs	17,475	1,464		1,464
308	Infiltration Galleries and Tunnels	-			-
309	Supply Mains	-	-		-
310	Power Generation Equipment	-	1		1
311	Pumping Equipment	16,847	890		890
320	Water Treatment Equipment	1,960	345		345
330	Distribution Reservoirs and Standpipes	16,678	1,799		1,799
331	Transmission and Distribution Mains	11,648	-		-
333	Services	1,382	249		249
334	Meters and Meter Installations	8,262	618		618
335	Hydrants	-			-
336	Backflow Prevention Devices	-			-
339	Other Plant Miscellaneous Equipment	-	-		-
340	Office Furniture and Equipment	5,753	548		548
341	Transportation Equipment	1,536	131		131
342	Stores Equipment	-	-		-
343	Tools, Shop and Garage Equipment	594	98		98
344	Laboratory Equipment	-			-
345	Power Operated Equipment	-	-		-
346	Communication Equipment	-	-		-
347	Miscellaneous Equipment	-	-		-
349	Abandonment of Regional Plant	-	-		-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 87,342	$ 6,143	$ 0	$ 6,143

* Auditor Adjustment
Use ( ) to denote reversal entries.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$			$ -	$ -
304	Structures and Improvements				-	5,207
305	Collecting and Impounding Reservoirs				-	-
306	Lake, River and Other Intakes				-	-
307	Wells and Springs				-	18,939
308	Infiltration Galleries and Tunnels				-	-
309	Supply Mains			-	-	-
310	Power Generation Equipment				-	1
311	Pumping Equipment	-		-	-	17,737
320	Water Treatment Equipment	294			294	2,011
330	Distribution Reservoirs and Standpipes	-			-	18,477
331	Transmission and Distribution Mains	-			-	11,648
333	Services				-	1,631
334	Meters and Meter Installations				-	8,880
335	Hydrants				-	-
336	Backflow Prevention Devices				-	-
339	Other Plant Miscellaneous Equipment				-	-
340	Office Furniture and Equipment	-			-	6,301
341	Transportation Equipment				-	1,667
342	Stores Equipment				-	-
343	Tools, Shop and Garage Equipment	-			-	692
344	Laboratory Equipment				-	-
345	Power Operated Equipment				-	-
346	Communication Equipment				-	-
347	Miscellaneous Equipment				-	-
349	Abandonment of Regional Plant				-	-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 294	$ 0	$ 0	$ 294	$ 93,191

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
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SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 21,539
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 865
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	0
Total Credits		$ 865
Less debits charged during the year (All debits charged during the year must be explained below)		$ 0
Total Contributions In Aid of Construction		$ 22,404

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

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UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	1.00	$ 865.0	$ 865
Other Side Tap 3/4" meter	-	1,230.0	-
Other Side Tap 3/4" meter	-	1,165.0	-
Other Side Tap 3/4" meter	-	1,270.0	-
Other Side Tap 1" meter	-	2,409.0	-
Same Side Tap 3/4" meter	-	945.0	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
Total Credits			$ 865

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 8,641
Debits during the year:	
Accruals charged to Account 272	$ 705
Other debits (specify) :	
Total debits	$ 705
Credits during the year (specify) :	
Audit Adjustment	$ 0
Total credits	$ -
Balance end of year	$ 9,346

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
		$
Total Credits		$

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)**

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue			$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	287	288	76,004
461.2	Sales to Commercial Customers			
461.3	Sales to Industrial Customers			
461.4	Sales to Public Authorities			
461.5	Sales Multiple Family Dwellings			
	Total Metered Sales	287	287	$ 76,004
	Fire Protection Revenue:			
462.1	Public Fire Protection			
462.2	Private Fire Protection			
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities			
465	Sales To Irrigation Customers			
466	Sales For Resale			
467	Interdepartmental Sales			
	Total Water Sales	287	287	$ 76,004
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$
470	Forfeited Discounts			
471	Miscellaneous Service Revenues			5,139
472	Rents From Water Property			
473	Interdepartmental Rents			
474	Other Water Revenues			
	Total Other Water Revenues			$ 5,139
	Total Water Operating Revenues			$ 81,143

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

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SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 7,973	$	1,727
603	Salaries and Wages - Officers, Directors and Majority Stockholders	11,884		-
604	Employee Pensions and Benefits	5,204		453
610	Purchased Water	-		
615	Purchased Power	4,491	4,297	-
616	Fuel for Power Production	-	-	
618	Chemicals	965		
620	Materials and Supplies	5,556		3,642
631	Contractual Services-Engineering	-	-	
632	Contractual Services - Accounting	4,000		
633	Contractual Services - Legal	-		
634	Contractual Services - Mgt. Fees	-		
635	Contractual Services - Testing	2,667		
636	Contractual Services - Other	9,196		1,576
641	Rental of Building/Real Property	736	61	
642	Rental of Equipment	-		-
650	Transportation Expenses	4,235		
656	Insurance - Vehicle	829		
657	Insurance - General Liability	-		
658	Insurance - Workman's Comp.	537		
659	Insurance - Other	-		
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-		
668	Water Resource Conservation Exp.	-		
670	Bad Debt Expense	$ 416		
675	Miscellaneous Expenses	$ 4,789	600	
	Total Water Utility Expenses	$ 63,478	$ 4,958	$ 7,398

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - Quail Run & Ponerosa Pines)

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	149	-	2,494	3,352	251
	-		340	3,463	8,081
	39		743	1,786	2,183
					194
965					
	-		1,914		-
					4,000
					-
2,667			-		
	7,260		360		-
					675
		-			-
				4,235	-
				829	
				-	
				91	446
				416	
			108	1,682	2,399
$ 3,632	$ 7,448	$ -	$ 5,959	$ 15,854	$ 18,229

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Quail Run / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		777	18	759	759
February		624	40	584	584
March		644	80	564	564
April		850	22	828	828
May		615	13	602	602
June		765	25	740	740
July		617	39	578	578
August		764	18	746	746
September		629	1	628	628
October		686	105	581	581
November		745	0	745	745
December		734	90	644	644
Total for Year	-	8,450	451	7,999	7,999

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,216,000 *	23,151	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Quail Run / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 518400

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	88	88
3/4"	Displacement	1.5		
1"	Displacement	2.5	16	40
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
			Total Water System Meter Equivalents	128

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 63

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Quail Run / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 128
2. Maximum number of ERCs * which can be served. 138
3. Present system connection capacity (in ERCs *) using existing lines. 1481
4. Future connection capacity (in ERCs *) upon service area buildout. 1481
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424046
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		870	302	568	568
February		1,191	629	562	562
March		1,135	429	706	706
April		1,174	433	741	741
May		1,385	584	801	801
June		1,243	506	737	737
July		1,139	402	737	737
August		1,114	458	656	656
September		803	132	671	671
October		1,007	289	718	718
November		1,692	1,164	528	528
December		1,087	448	639	639
Total for Year	-	13,840	5,776	8,064	8,064

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	189,000,000	37,918	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 517,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	184	184
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		184

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 63

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ponderosa Pines / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 184
2. Maximum number of ERCs * which can be served. 184
3. Present system connection capacity (in ERCs *) using existing lines. 184
4. Future connection capacity (in ERCs *) upon service area buildout. 184
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WATER
OPERATION
SECTION
GROUP 4

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

SCHEDULE OF YEAR END WATER RATE BASE

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	$ 3,236,695
	Less: Nonused and Useful Plant (1)		56,983
108	Accumulated Depreciation	W-6(b)	2,638,115
110	Accumulated Amortization		
271	Contributions in Aid of Construction	W-7	2,027,909
252	Advances for Construction	F-20	-
	Subtotal		$ (1,486,312)
272	Add: Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	$ 1,609,332
	Subtotal		$ 123,020
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	39,523
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	(17,785)
	Working Capital Allowance (3)		114,391
	Other (Specify):		
105	Construction in Process		-
	WATER RATE BASE		$ 259,149
	WATER OPERATING INCOME	W-3	$ 10,025
	ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)		3.87%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

YEAR OF REPORT
December 31, 2021

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER OPERATING STATEMENT

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	$ 1,037,836
469	Less: Guaranteed Revenue and AFPI	W-9	-
	Net Operating Revenues		$ 1,037,836
401	Operating Expenses	W-10(a)	$ 915,127
403	Depreciation Expense	W-6(a)	62,886
	Less: Amortization of CIAC	W-8(a)	43,943
	Net Depreciation Expense		$ 18,943
406	Amortization of Utility Plant Acquisition Adjustment	F-7	988
407	Amortization Expense (Other than CIAC)	F-8	-
	Taxes Other Than Income		
408.10	Utility Regulatory Assessment Fee		46,703
408.11	Property Taxes		17,878
408.12	Payroll Taxes		28,172
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		$ 92,753
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		$ 1,027,811
	Utility Operating Income		$ 10,025
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	$ -
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		$ 10,025

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER UTILITY PLANT ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	$ 1,660	$ -	-	$ 1,660
302	Franchises	-	-	-	-
303	Land and Land Rights	70,777	-	-	70,777
304	Structures and Improvements	6,227	-	-	6,227
305	Collecting and Impounding Reservoirs	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-
307	Wells and Springs	75,152	-	-	75,152
308	Infiltration Galleries and Tunnels	-	-	-	-
309	Supply Mains	136,241	-	(5,804)	130,437
310	Power Generation Equipment	89,735	257	-	89,992
311	Pumping Equipment	530,368	21,996	(8,695)	543,669
320	Water Treatment Equipment	215,268	4,164	(3,748)	215,684
330	Distribution Reservoirs and Standpipes	97,947	-	-	97,947
331	Transmission and Distribution Mains	1,074,742	-	-	1,074,742
333	Services	164,131	5,770	-	169,901
334	Meters and Meter Installations	220,322	8,545	(5,341)	223,526
335	Hydrants	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-
339	Other Plant Miscellaneous Equipment	25,858	-	-	25,858
340	Office Furniture and Equipment	85,525	-	-	85,525
341	Transportation Equipment	115,148	-	-	115,148
342	Stores Equipment	4,425	-	-	4,425
343	Tools, Shop and Garage Equipment	36,634	450	-	37,084
344	Laboratory Equipment	-	-	-	-
345	Power Operated Equipment	5,200	-	-	5,200
346	Communication Equipment	10,912	-	-	10,912
347	Miscellaneous Equipment	17,436	-	-	17,436
349	Abandonment of Regional Plant	235,393	-	-	235,393
	TOTAL WATER PLANT	$ 3,219,101	$ 41,182	$ -23,588	$ 3,236,695

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.
* auditor adjustment

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	$ 1,660	$ 1,660	$	$	$	$
302	Franchises	-	-				
303	Land and Land Rights	70,777		70,777	-	-	-
304	Structures and Improvements	6,227		6,227	-	-	-
305	Collecting and Impounding Reservoirs	-		-			
306	Lake, River and Other Intakes	-		-			
307	Wells and Springs	75,152		75,152			
308	Infiltration Galleries and Tunnels	-		-			
309	Supply Mains	130,437		130,437			
310	Power Generation Equipment	89,992		89,992			
311	Pumping Equipment	543,669		543,669	-	-	
320	Water Treatment Equipment	215,684			215,684		
330	Distribution Reservoirs and Standpipes	97,947				97,947	
331	Transmission and Distribution Mains	1,074,742				1,074,742	
333	Services	169,901				169,901	
334	Meters and Meter Installations	223,526				223,526	
335	Hydrants	-				-	
336	Backflow Prevention Devices	-				-	
339	Other Plant Miscellaneous Equipment	25,858	25,858	-	-	-	
340	Office Furniture and Equipment	85,525					85,525
341	Transportation Equipment	115,148					115,148
342	Stores Equipment	4,425					4,425
343	Tools, Shop and Garage Equipment	37,084					37,084
344	Laboratory Equipment	-					-
345	Power Operated Equipment	5,200					5,200
346	Communication Equipment	10,912					10,912
347	Miscellaneous Equipment	17,436					17,436
349	Abandonment of Regional Plant	235,393					235,393
	TOTAL WATER PLANT	$ 3,236,695	$ 27,518	$ 916,254	$ 215,684	$ 1,566,116	$ 511,123

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

BASIS FOR WATER DEPRECIATION CHARGES

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	33		3.03%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs	30		3.33%
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	15		6.67%
311	Pumping Equipment	20		5.00%
320	Water Treatment Equipment	22		4.55%
330	Distribution Reservoirs and Standpipes	22		4.55%
331	Transmission and Distribution Mains	43		2.33%
333	Services	43		2.33%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment	25		4.00%
340	Office Furniture and Equipment	15		6.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment	20		5.00%
343	Tools, Shop and Garage Equipment	16		6.25%
344	Laboratory Equipment	10		10.00%
345	Power Operated Equipment	12		8.33%
346	Communication Equipment	10		10.00%
347	Miscellaneous Equipment	15		6.67%
349	Abandonment of Regional Plant	8		12.50%
Water Plant Composite Depreciation Rate *				

* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
301	Organization	$ 1,504	$ 41	-	$ 41
304	Structures and Improvements	3,518	188	-	188
305	Collecting and Impounding Reservoirs	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-
307	Wells and Springs	75,018	4	-	4
308	Infiltration Galleries and Tunnels	-	-	-	-
309	Supply Mains	46,660	3,727	-	3,727
310	Power Generation Equipment	76,890	1,069	-	1,069
311	Pumping Equipment	461,427	4,395	-	4,395
320	Water Treatment Equipment	194,856	1,118	-	1,118
330	Distribution Reservoirs and Standpipes	34,683	4,452	-	4,452
331	Transmission and Distribution Mains	989,994	24,994	-	24,994
333	Services	55,944	3,897	-	3,897
334	Meters and Meter Installations	170,372	10,919	-	10,919
335	Hydrants	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-
339	Other Plant Miscellaneous Equipment	25,858	-	-	-
340	Office Furniture and Equipment	49,555	5,702	-	5,702
341	Transportation Equipment	111,133	1,554	-	1,554
342	Stores Equipment	3,464	221	-	221
343	Tools, Shop and Garage Equipment	29,001	605	-	605
344	Laboratory Equipment	-	-	-	-
345	Power Operated Equipment	5,200	-	-	-
346	Communication Equipment	10,911	-	-	-
347	Miscellaneous Equipment	17,436	-	-	-
349	Abandonment of Regional Plant	235,393	-	-	-
TOTAL WATER ACCUMULATED DEPRECIATION		$ 2,598,817	$ 62,886	$ 0	$ 62,886

* Specify nature of transaction
Use ( ) to denote reversal entries.

W-6(a)
GROUP 4

Entered on wrong line in 2007

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (l)
301	Organization	$ -	-	-	$ -	$ 1,545
304	Structures and Improvements	-	-	-	-	3,706
305	Collecting and Impounding Reservoirs	-	-	-	-	-
306	Lake, River and Other Intakes	-	-	-	-	-
307	Wells and Springs	-	-	-	-	75,022
308	Infiltration Galleries and Tunnels	-	-	-	-	-
309	Supply Mains	5,804	-	-	5,804	44,583
310	Power Generation Equipment	-	-	-	-	77,959
311	Pumping Equipment	8,695	-	-	8,695	457,127
320	Water Treatment Equipment	3,748	-	-	3,748	192,226
330	Distribution Reservoirs and Standpipes	-	-	-	-	39,135
331	Transmission and Distribution Mains	-	-	-	-	1,014,988
333	Services	-	-	-	-	59,841
334	Meters and Meter Installations	5,341	-	-	5,341	175,950
335	Hydrants	-	-	-	-	-
336	Backflow Prevention Devices	-	-	-	-	-
339	Other Plant Miscellaneous Equipment	-	-	-	-	25,858
340	Office Furniture and Equipment	-	-	-	-	55,257
341	Transportation Equipment	-	-	-	-	112,687
342	Stores Equipment	-	-	-	-	3,685
343	Tools, Shop and Garage Equipment	-	-	-	-	29,606
344	Laboratory Equipment	-	-	-	-	-
345	Power Operated Equipment	-	-	-	-	5,200
346	Communication Equipment	-	-	-	-	10,911
347	Miscellaneous Equipment	-	-	-	-	17,436
349	Abandonment of Regional Plant	-	-	-	-	235,393
TOTAL WATER ACCUMULATED DEPRECIATION		$ 23,588	$ 0	$ 0	$ 23,588	$ 2,638,115

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

CONTRIBUTIONS IN AID OF CONSTRUCTION
ACCOUNT 271

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		$ 1,999,970
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	$ 27,939
Contributions received from Developer or Contractor Agreements in cash or property	W-8(a)	-
Total Credits		$ 27,939
Less debits charged during the year (All debits charged during the year must be explained below)		$ -
Total Contributions In Aid of Construction		$ 2,027,909

If any prepaid CIAC has been collected, provide a supporting schedule showing how the amount is determined.

Explain all debits charged to Account 271 during the year below:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER CIAC SCHEDULE "A"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY, MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Same Side Tap 3/4" meter	27	$ 865	$ 23,355
Other Side Tap 3/4" meter	1	1,230	1,230
Other Side Tap 3/4" meter	-	1,165	-
Other Side Tap 3/4" meter	-	1,270	-
Other Side Tap 1" meter	1	2,409	2,409
Same Side Tap 3/4" meter	1	945	945
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
Total Credits			$ 27,939

ACCUMULATED AMORTIZATION OF WATER CONTRIBUTIONS IN AID OF CONSTRUCTION

DESCRIPTION (a)	WATER (b)
Balance first of year	$ 1,565,389
Debits during the year:	
Accruals charged to Account 272	$ 43,943
Other debits (specify) :	
Auditor Adjustment	0
Total debits	$ 43,943
Credits during the year (specify) :	
	$ -
Total credits	$ -
Balance end of year	$ 1,609,332

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER CIAC SCHEDULE "B"

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
N/A		$ 0
Total Credits		$

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER OPERATING REVENUE

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
	Water Sales:			
460	Unmetered Water Revenue	-	-	$ -
	Metered Water Revenue:			
461.1	Sales to Residential Customers	3,647	3,712	980,745
461.2	Sales to Commercial Customers	-	-	-
461.3	Sales to Industrial Customers	-	-	-
461.4	Sales to Public Authorities	-	-	-
461.5	Sales Multiple Family Dwellings	-	-	-
	Total Metered Sales	3,647	3,712	$ 980,745
	Fire Protection Revenue:			
462.1	Public Fire Protection	-	-	-
462.2	Private Fire Protection	-	-	-
	Total Fire Protection Revenue	-	-	$ -
464	Other Sales To Public Authorities	-	-	-
465	Sales To Irrigation Customers	-	-	-
466	Sales For Resale	-	-	-
467	Interdepartmental Sales	-	-	-
	Total Water Sales	3,647	3,712	$ 980,745
	Other Water Revenues:			
469	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			$ -
470	Forfeited Discounts			-
471	Miscellaneous Service Revenues			57,091
472	Rents From Water Property			-
473	Interdepartmental Rents			-
474	Other Water Revenues			-
	Total Other Water Revenues			$ 57,091
	Total Water Operating Revenues			$ 1,037,836

* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : **Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines**

WATER UTILITY EXPENSE ACCOUNTS

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	$ 155,371	$ -	21,838
603	Salaries and Wages - Officers, Directors and Majority Stockholders	211,228	-	42,318
604	Employee Pensions and Benefits	76,055	-	13,310
610	Purchased Water	-	-	-
615	Purchased Power	65,134	62,669	-
616	Fuel for Power Production	-	-	-
618	Chemicals	26,715	-	26,715
620	Materials and Supplies	34,286	-	4,044
631	Contractual Services-Engineering	-	-	-
632	Contractual Services - Accounting	12,000	-	-
633	Contractual Services - Legal	-	-	-
634	Contractual Services - Mgt. Fees	-	-	-
635	Contractual Services - Testing	27,620	-	-
636	Contractual Services - Other	52,358	-	11,250
641	Rental of Building/Real Property	114,215	105,646	-
642	Rental of Equipment	2,741	-	539
650	Transportation Expenses	53,499	-	-
656	Insurance - Vehicle	10,525	-	-
657	Insurance - General Liability	-	-	-
658	Insurance - Workman's Comp.	6,815	-	-
659	Insurance - Other	-	-	-
660	Advertising Expense	-		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	-		
667	Regulatory Commission Exp.-Other	-	-	-
668	Water Resource Conservation Exp.	-	-	-
670	Bad Debt Expense	$ 5,975		
675	Miscellaneous Expenses	$ 60,590	8,522	800
	Total Water Utility Expenses	$ 915,127	$ 176,837	$ 120,814

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2021

SYSTEM NAME / COUNTY : Sunshine Utilities (Marion County - All Except Quail Run & Ponderosa Pines

WATER EXPENSE ACCOUNT MATRIX

.3 WATER TREATMENT EXPENSES - OPERATIONS (f)	.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)	.5 TRANSMISSION & DISTRIBUTION EXPENSES - OPERATIONS (h)	.6 TRANSMISSION & DISTRIBUTION EXPENSES - MAINTENANCE (i)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)
-	1,017	-	68,669	49,108	14,739
-	-	-	20,555	44,435	103,920
-	211	-	18,511	19,407	24,616
-	-	-	-	-	-
-	-	-	-	-	2,465
-	-	-	-	-	-
-	-	-	-	-	-
-	134	-	30,108	-	-
-	-	-	-	-	-
-	-	-	-	-	12,000
-	-	-	-	-	-
-	-	-	-	-	-
27,620	-	-	-	-	-
-	38,508	-	2,600	-	-
-	-	-	-	-	8,569
-	-	-	2,202	-	-
-	-	-	-	53,499	-
-	-	-	-	10,525	-
-	-	-	-	-	-
-	-	-	-	1,152	5,663
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	5,975	
-	-	-	1,377	21,593	28,298
$ 27,620	$ 39,870	$ -	$ 144,022	$ 205,694	$ 200,270

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		293	14	279	279
February		227	11	216	216
March		193	18	175	175
April		277	1	276	276
May		232	9	223	223
June		300	23	277	277
July		244	75	169	169
August		484	319	165	165
September		244	18	226	226
October		249	54	195	195
November		245	25	220	220
December		225	4	221	221
Total for Year	-	3,213	571	2,642	2,642

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	22,630,000 *	8,803	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 62000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ashley Heights / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential				
5/8"	Displacement	1.0	49	49
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		49

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 148

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Ashley Heights / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 49
2. Maximum number of ERCs * which can be served. 49
3. Present system connection capacity (in ERCs *) using existing lines. 49
4. Future connection capacity (in ERCs *) upon service area buildout. 49
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424962
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		858	382	476	476
February		661	324	337	337
March		466	30	436	436
April		526	33	493	493
May		706	271	435	435
June		768	248	520	520
July		815	444	371	371
August		728	202	526	526
September		1,422	971	451	451
October		1,036	659	377	377
November		583	124	459	459
December		536	158	378	378
Total for Year	-	9,105	3,846	5,259	5,259

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,700,000 *	24,945	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Belleview Oaks / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	85	85
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		93

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 78

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Belleview Oaks / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 93
2. Maximum number of ERCs * which can be served. 99
3. Present system connection capacity (in ERCs *) using existing lines. 99
4. Future connection capacity (in ERCs *) upon service area buildout. 99
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424621
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? YES
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		111	6	105	105
February		88	7	81	81
March		99	15	84	84
April		200	77	123	123
May		104	8	96	96
June		136	6	130	130
July		117	2	115	115
August		99	0	99	99
September		103	18	85	85
October		115	20	95	95
November		100	13	87	87
December		99	23	76	76
Total for Year	-	1,371	195	1,176	1,176

If water is purchased for resale, indicate the following:

Vendor

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,935,000 *	3,756	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 19,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Burks;Ocala Garden / Marion County**

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	23	23
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement, Compound or Turbine	5.0	2	10
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		33

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 129

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Burks;Ocala Garden / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 33
2. Maximum number of ERCs * which can be served. 38
3. Present system connection capacity (in ERCs *) using existing lines. 38
4. Future connection capacity (in ERCs *) upon service area buildout. 38
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421554
12. Water Management District Consumptive Use Permit # N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Country Walk / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		431	89	342	342
February		425	166	259	259
March		431	159	272	272
April		656	155	501	501
May		569	201	368	368
June		834	310	524	524
July		431	143	288	288
August		526	83	443	443
September		490	134	356	356
October		500	170	330	330
November		539	139	400	400
December		495	183	312	312
Total for Year	-	6,327	1,932	4,395	4,395

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,090,000 *	17,334	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Country Walk / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 66,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Country Walk / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	70	70
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		70

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 172

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Country Walk / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 70
2. Maximum number of ERCs * which can be served. 79
3. Present system connection capacity (in ERCs *) using existing lines. 79
4. Future connection capacity (in ERCs *) upon service area buildout. 79
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424657
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		290	98	192	192
February		245	88	157	157
March		258	122	136	136
April		350	141	209	209
May		298	125	173	173
June		454	224	230	230
July		421	262	159	159
August		757	578	179	179
September		488	300	188	188
October		388	234	154	154
November		703	521	182	182
December		339	149	190	190
Total for Year	-	4,991	2,842	2,149	2,149

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	14,235,000 *	13,674	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 39,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	41	41
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		41

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 144

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Eleven Oaks / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 41
2. Maximum number of ERCs * which can be served. 45
3. Present system connection capacity (in ERCs *) using existing lines. 45
4. Future connection capacity (in ERCs *) upon service area buildout. 45
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424099
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		5,492	2,043	3,449	3,449
February		5,295	2,307	2,988	2,988
March		4,944	2,550	2,394	2,394
April		5,876	2,139	3,737	3,737
May		6,618	2,587	4,031	4,031
June		6,918	2,109	4,809	4,809
July		5,315	2,284	3,031	3,031
August		5,247	1,934	3,313	3,313
September		5,359	1,287	4,072	4,072
October		4,791	1,646	3,145	3,145
November		6,459	2,738	3,721	3,721
December		4,063	910	3,153	3,153
Total for Year	-	66,377	24,534	41,843	41,843

If water is purchased for resale, indicate the following:

Vendor _____

Point of delivery _____

If water is sold to other water utilities for redistribution, list names of such utilities below:

_____

_____

_____

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	83,600,000	181,855	Ground Water
Well			

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 229041

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Emil-Marr;SunRay / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	666	666
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		669

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/No of Meters)/365 Days 171

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Emil-Marr;SunRay / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 669
2. Maximum number of ERCs * which can be served. 696
3. Present system connection capacity (in ERCs *) using existing lines. 696
4. Future connection capacity (in ERCs *) upon service area buildout. 696
5. Estimated annual increase in ERCs *. 3
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420340 & 3421314
12. Water Management District Consumptive Use Permit 3130
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Florida Heights / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		722	199	523	523
February		712	402	310	310
March		592	41	551	551
April		856	324	532	532
May		932	448	484	484
June		1,362	830	532	532
July		774	365	409	409
August		786	279	507	507
September		915	454	461	461
October		1,020	491	529	529
November		693	339	354	354
December		681	236	445	445
Total for Year	-	10,045	4,408	5,637	5,637

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	11,000,000 *	27,521	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Florida Heights / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 30,137

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.):

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Florida Heights / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	106	106
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		106

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 146

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Florida Heights / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 106
2. Maximum number of ERCs * which can be served. 113
3. Present system connection capacity (in ERCs *) using existing lines. 113
4. Future connection capacity (in ERCs *) upon service area buildout. 113
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424031
12. Water Management District Consumptive Use Permit 3131
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		409	75	334	334
February		426	122	304	304
March		504	214	290	290
April		540	90	450	450
May		457	40	417	417
June		681	199	482	482
July		320	39	281	281
August		442	117	325	325
September		436	33	403	403
October		446	106	340	340
November		489	27	462	462
December		396	20	376	376
Total for Year	-	5,546	1,082	4,464	4,464

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	24,820,000	15,195	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 68,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Floyd Clark;Hodges;Northwoods / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	79	79
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		79

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 155

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Floyd Clark;Hodges;Northwoods / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 79
2. Maximum number of ERCs * which can be served. 79
3. Present system connection capacity (in ERCs *) using existing lines. 79
4. Future connection capacity (in ERCs *) upon service area buildout. 79
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420411
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,522	255	1,267	1,267
February		1,575	405	1,170	1,170
March		1,547	598	949	949
April		1,797	47	1,750	1,750
May		1,816	59	1,757	1,757
June		2,702	686	2,016	2,016
July		1,724	431	1,293	1,293
August		1,910	624	1,286	1,286
September		2,026	494	1,532	1,532
October		1,904	732	1,172	1,172
November		1,918	417	1,501	1,501
December		1,319	127	1,192	1,192
Total for Year	-	21,760	4,875	16,885	16,885

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	19,000,000 *	59,616	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 52,055

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	232	232
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		232

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 199

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Fore Oakes;Coventry;Ballard Acres / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 232
2. Maximum number of ERCs * which can be served. 249
3. Present system connection capacity (in ERCs *) using existing lines. 249
4. Future connection capacity (in ERCs *) upon service area buildout. 249
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424644
12. Water Management District Consumptive Use Permit 3013
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Hilltop / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,959	612	1,347	1,347
February		1,872	939	933	933
March		1,563	401	1,162	1,162
April		2,045	174	1,871	1,871
May		1,914	430	1,484	1,484
June		1,892	246	1,646	1,646
July		1,649	376	1,273	1,273
August		1,632	137	1,495	1,495
September		1,635	311	1,324	1,324
October		2,350	1,214	1,136	1,136
November		3,264	2,188	1,076	1,076
December		1,608	483	1,125	1,125
Total for Year	-	23,383	7,511	15,872	15,872

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,800,000	64,063	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Hilltop / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 18,630

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Hilltop / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	236	236
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		244

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 178

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Hilltop / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 244
2. Maximum number of ERCs * which can be served. 322
3. Present system connection capacity (in ERCs *) using existing lines. 322
4. Future connection capacity (in ERCs *) upon service area buildout. 322
5. Estimated annual increase in ERCs *. 5
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424662
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,665	482	2,183	2,183
February		2,367	993	1,374	1,374
March		2,225	387	1,838	1,838
April		2,173	310	1,863	1,863
May		3,386	1,504	1,882	1,882
June		2,689	626	2,063	2,063
July		2,434	658	1,776	1,776
August		2,953	939	2,014	2,014
September		2,759	1,010	1,749	1,749
October		3,398	1,672	1,726	1,726
November		3,135	1,424	1,711	1,711
December		2,884	1,307	1,577	1,577
Total for Year	-	33,068	11,312	21,756	21,756

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	30,842,500	90,597	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 84,500

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Little Lake Weir / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	434	434
3/4"	Displacement	1.5		
1"	Displacement	2.5	1	3
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		437

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 137

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Little Lake Weir / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 437
2. Maximum number of ERCs * which can be served. 763
3. Present system connection capacity (in ERCs *) using existing lines. 763
4. Future connection capacity (in ERCs *) upon service area buildout. 763
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420761
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oak Haven / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,330	531	799	799
February		1,236	475	761	761
March		1,177	492	685	685
April		1,010	223	787	787
May		1,054	203	851	851
June		1,259	467	792	792
July		1,274	399	875	875
August		1,295	494	801	801
September		1,126	39	1,087	1,087
October		941	178	763	763
November		900	178	722	722
December		1,128	318	810	810
Total for Year	-	13,730	3,997	9,733	9,733

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	18,000,000	37,616	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oak Haven / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 49,315

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oak Haven / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	63	63
3/4"	Displacement	1.5		
1"	Displacement	2.5	6	15
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0	4	20
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0	1	15
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	2	60
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		173

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 154

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Oak Haven / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 173
2. Maximum number of ERCs * which can be served. 200
3. Present system connection capacity (in ERCs *) using existing lines. 200
4. Future connection capacity (in ERCs *) upon service area buildout. 200
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424106
12. Water Management District Consumptive Use Permit 3080
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oakhurst / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		638	42	596	596
February		639	147	492	492
March		582	147	435	435
April		770	138	632	632
May		799	77	722	722
June		915	153	762	762
July		597	134	463	463
August		670	228	442	442
September		669	110	559	559
October		649	122	527	527
November		735	154	581	581
December		643	179	464	464
Total for Year	-	8,306	1,631	6,675	6,675

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

* The master meter is failing to read low flows thus making the water pumped understated.
The company is is currently looking into replacing the master meter with a special meter to read low flow

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	13,000,000	22,756	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oakhurst / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 35,616

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Oakhurst / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	110	110
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		110

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 166

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Oakhurst / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 110
2. Maximum number of ERCs * which can be served. 110
3. Present system connection capacity (in ERCs *) using existing lines. 110
4. Future connection capacity (in ERCs *) upon service area buildout. 110
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424032
12. Water Management District Consumptive Use Permit 3132
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,925	319	1,606	1,606
February		1,761	622	1,139	1,139
March		1,643	476	1,167	1,167
April		1,880	93	1,787	1,787
May		2,026	444	1,582	1,582
June		2,294	423	1,871	1,871
July		1,979	508	1,471	1,471
August		2,231	482	1,749	1,749
September		2,070	477	1,593	1,593
October		2,571	11	2,560	2,560
November		1,554	137	1,417	1,417
December		2,035	597	1,438	1,438
Total for Year	-	23,969	4,589	19,380	19,380

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	39,600,000	65,668	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 108,493

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	408	408
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		408

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 130

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY: **Ocala Heights;Reynolds;Silverwood Villas/;Spanish Palms;Country Aire;Lexington Estates / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 408
2. Maximum number of ERCs * which can be served. 644
3. Present system connection capacity (in ERCs *) using existing lines. 644
4. Future connection capacity (in ERCs *) upon service area buildout. 644
5. Estimated annual increase in ERCs *. 15
6. Is the utility required to have fire flow capacity? yes
   If so, how much capacity is required? 500 gmp for two hours
7. Attach a description of the fire fighting facilities. Hydrants
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424651
12. Water Management District Consumptive Use Permit 3019
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		3,393	1,216	2,177	2,177
February		2,723	1,046	1,677	1,677
March		2,610	440	2,170	2,170
April		2,759	326	2,433	2,433
May		2,983	563	2,420	2,420
June		2,925	302	2,623	2,623
July		2,534	294	2,240	2,240
August		2,716	371	2,345	2,345
September		2,554	356	2,198	2,198
October		2,944	785	2,159	2,159
November		2,759	494	2,265	2,265
December		2,801	632	2,169	2,169
Total for Year	-	33,701	6,825	26,876	26,876

If water is purchased for resale, indicate the following:

Vendor: Marion Utilities, Inc

Point of delivery: Ocklawaha Terrace

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	60,955,000	92,332	Ground Water

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 167,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	354	354
3/4"	Displacement	1.5		
1"	Displacement	2.5	4	10
1 1/4"	Displacement, Compound or Turbine	3.8	2	8
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0	3	24
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		401

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 184

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Ocklawaha;Sanctuary / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 401
2. Maximum number of ERCs * which can be served. 597
3. Present system connection capacity (in ERCs *) using existing lines. 597
4. Future connection capacity (in ERCs *) upon service area buildout. 597
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   Elevated Water Tank, extend main lines and combine 5 systems (Belleview, Hilltop, Lakeview Hills, Little Lake Weir, Ocklawaha #1 and Ocklawaha #2
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3420939
12. Water Management District Consumptive Use Permit 2993
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunlight Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		458	141	317	317
February		497	243	254	254
March		408	152	256	256
April		487	109	378	378
May		635	305	330	330
June		781	361	420	420
July		559	276	283	283
August		512	90	422	422
September		450	95	355	355
October		438	98	340	340
November		433	72	361	361
December		368	27	341	341
Total for Year	-	6,026	1,969	4,057	4,057

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	6,500,000 *	16,510	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sunlight Acres / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 17,808

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sunlight Acres / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	73	73
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		73

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 152

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sunlight Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 73
2. Maximum number of ERCs * which can be served. 76
3. Present system connection capacity (in ERCs *) using existing lines. 76
4. Future connection capacity (in ERCs *) upon service area buildout. 76
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421520
12. Water Management District Consumptive Use Permit 2996
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		85	1	84	84
February		86	2	84	84
March		83	9	74	74
April		101	4	97	97
May		95	1	94	94
June		93	3	90	90
July		87	6	81	81
August		82	4	78	78
September		126	2	124	124
October		136	3	133	133
November		113	2	111	111
December		106	3	103	103
Total for Year	-	1,193	40	1,153	1,153

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	7,665,000	3,268	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 21,000

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A

Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A

Manufacturer:

Gravity (in GPM/square feet):

Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sun Resorts / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	32	32
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		32

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 99

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sun Resorts / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 32
2. Maximum number of ERCs * which can be served. 32
3. Present system connection capacity (in ERCs *) using existing lines. 32
4. Future connection capacity (in ERCs *) upon service area buildout. 32
5. Estimated annual increase in ERCs *. None
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421201
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,553	5	1,548	1,548
February		1,710	553	1,157	1,157
March		1,422	7	1,415	1,415
April		1,549	37	1,512	1,512
May		1,139	16	1,123	1,123
June		1,242	94	1,148	1,148
July		1,287	177	1,110	1,110
August		1,410	19	1,391	1,391
September		1,300	52	1,248	1,248
October		1,152	69	1,083	1,083
November		1,294	61	1,233	1,233
December		1,137	127	1,010	1,010
Total for Year	-	16,195	1,217	14,978	14,978

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	15,000,000	44,370	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 41,096

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	68	68
3/4"	Displacement	1.5		
1"	Displacement	2.5	26	65
1 1/4"	Displacement, Compound or Turbine	3.8	28	106
1 1/2"	Displacement or Turbine	5.0	1	5
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		244

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 168

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Whispering Sands / Marion County

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 244
2. Maximum number of ERCs * which can be served. 817
3. Present system connection capacity (in ERCs *) using existing lines. 817
4. Future connection capacity (in ERCs *) upon service area buildout. 817
5. Estimated annual increase in ERCs *. 1
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424009
12. Water Management District Consumptive Use Permit 6850
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		1,400	109	1,291	1,291
February		1,027	71	956	956
March		1,966	778	1,188	1,188
April		1,478	362	1,116	1,116
May		1,524	635	889	889
June		1,564	663	901	901
July		1,462	633	829	829
August		1,764	550	1,214	1,214
September		1,526	657	869	869
October		2,043	607	1,436	1,436
November		1,409	669	740	740
December		1,655	617	1,038	1,038
Total for Year	-	18,818	6,351	12,467	12,467

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	56,200,000 *	51,556	Ground Water

* Annual

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 153,973

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Wellhead

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	229	229
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/14"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0	1	8
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0	1	30
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		267

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 128

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : **Winding Waters;Urban MHP-1;Lake Bryant Fish Camp-1;Lake Forrest-1;Lake Bryant Ridge / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 267
2. Maximum number of ERCs * which can be served. 784
3. Present system connection capacity (in ERCs *) using existing lines. 646
4. Future connection capacity (in ERCs *) upon service area buildout. 646
5. Estimated annual increase in ERCs *. 10
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3424691
12. Water Management District Consumptive Use Permit # 3093
    a. Is the system in compliance with the requirements of the CUP? Yes
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE (Omit 000's) (b)	FINISHED WATER PUMPED FROM WELLS (Omit 000's) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED (Omit 000's) [(b)+(c)-(d)] (e)	WATER SOLD TO CUSTOMERS (Omit 000's) (f)
January		2,203	824	1,379	1,379
February		2,424	938	1,486	1,486
March		2,376	1,091	1,285	1,285
April		2,322	543	1,779	1,779
May		2,253	602	1,651	1,651
June		3,006	853	2,153	2,153
July		2,715	980	1,735	1,735
August		2,967	1,197	1,770	1,770
September		3,136	1,145	1,991	1,991
October		2,825	1,218	1,607	1,607
November		2,922	1,140	1,782	1,782
December		2,582	857	1,725	1,725
Total for Year	-	31,731	11,388	20,343	20,343

If water is purchased for resale, indicate the following:

Vendor N/A

Point of delivery

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
Well	120,888,000	62,680	Ground Water
Well	46,778,400	24,254	Ground Water

* Annual

YEAR OF REPORT
December 31, 2020

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD): 459,360

Location of measurement of capacity (i.e. Wellhead, Storage Tank): Storage Tank

Type of treatment (reverse osmosis, (sedimentation, chemical, aerated, etc.): Chlorinator

LIME TREATMENT

Unit rating (i.e., GPM, pounds per gallon): N/A Manufacturer:

FILTRATION

Type and size of area:

Pressure (in square feet): N/A Manufacturer:

Gravity (in GPM/square feet): Manufacturer:

UTILITY NAME: Sunshine Utilities of Central Florida, Inc.

YEAR OF REPORT
December 31, 2020

SYSTEM NAME / COUNTY : Sandy Acres / Marion County

CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	267	267
3/4"	Displacement	1.5		
1"	Displacement	2.5		
1 1/4"	Displacement, Compound or Turbine	3.8		
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
		Total Water System Meter Equivalents		267

CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).
Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:
ERC = (Total SFR gallons sold (Omit 000) / 365 days / 350 gallons per day)

ERC Calculation:

(SFR gallons sold/365)/350GPD 209

YEAR OF REPORT
December 31, 2020

UTILITY NAME: **Sunshine Utilities of Central Florida, Inc.**

SYSTEM NAME / COUNTY : **Sandy Acres / Marion County**

OTHER WATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERC's * the system can efficiently serve. 267
2. Maximum number of ERCs * which can be served. 282
3. Present system connection capacity (in ERCs *) using existing lines. 282
4. Future connection capacity (in ERCs *) upon service area buildout. 282
5. Estimated annual increase in ERCs *. 2
6. Is the utility required to have fire flow capacity? No
   If so, how much capacity is required? _____
7. Attach a description of the fire fighting facilities.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system.
   None Planned
9. When did the company last file a capacity analysis report with the DEP? N/A
10. If the present system does not meet the requirements of DEP rules: N/A
    a. Attach a description of the plant upgrade necessary to meet the DEP rules.
    b. Have these plans been approved by DEP? _____
    c. When will construction begin? _____
    d. Attach plans for funding the required upgrading.
    e. Is this system under any Consent Order with DEP? _____
11. Department of Environmental Protection ID # 3421118
12. Water Management District Consumptive Use Permit N/A
    a. Is the system in compliance with the requirements of the CUP? N/A
    b. If not, what are the utility's plans to gain compliance? _____

* An ERC is determined based on the calculation on the bottom of Page W-13.

WASTEWATER OPERATION SECTION

THE COMPANY DOES NOT PROVIDE WASTEWATER SERVICES

Reconciliation of Revenue to Regulatory Assessment Fee Revenue

Water Operations

Class A & B

Company:

For the Year Ended December 31, 2017

(a) Accounts	(b) Gross Water Revenues Per Sch. W-9	(c) Gross Water Revenues Per RAF Return	(d) Difference (b) - (c)
Gross Revenue:			
Unmetered Water Revenues (460)	$ 1,100,526	$ 1,100,526	$
Total Metered Sales (461.1 - 461.5)			
Total Fire Protection Revenue (462.1 - 462.2)			
Other Sales to Public Authorities (464)			
Sales to Irrigation Customers (465)			
Sales for Resale (466)			
Interdepartmental Sales (467)			
Total Other Water Revenues (469 - 474)			
Total Water Operating Revenue	$ 1,100,526	$ 1,100,526	$
LESS: Expense for Purchased Water from FPSC-Regulated Utility			
Net Water Operating Revenues	$ 1,100,526	$ 1,100,526	$

Explanations:

Instructions:

For the current year, reconcile the gross water revenues reported on Schedule W-9 with the gross water revenues reported on the company's regulatory assessment fee return. Explain any differences reported in column (d).

EXHIBIT 31

WATER SYSTEM ASSESSMENT

Ashley Heights Subdivision

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Ashley Heights. A summary of the main parameters for the water system are summarized below in Table 1-1.

Table 1-1: Ashley Heights System Information

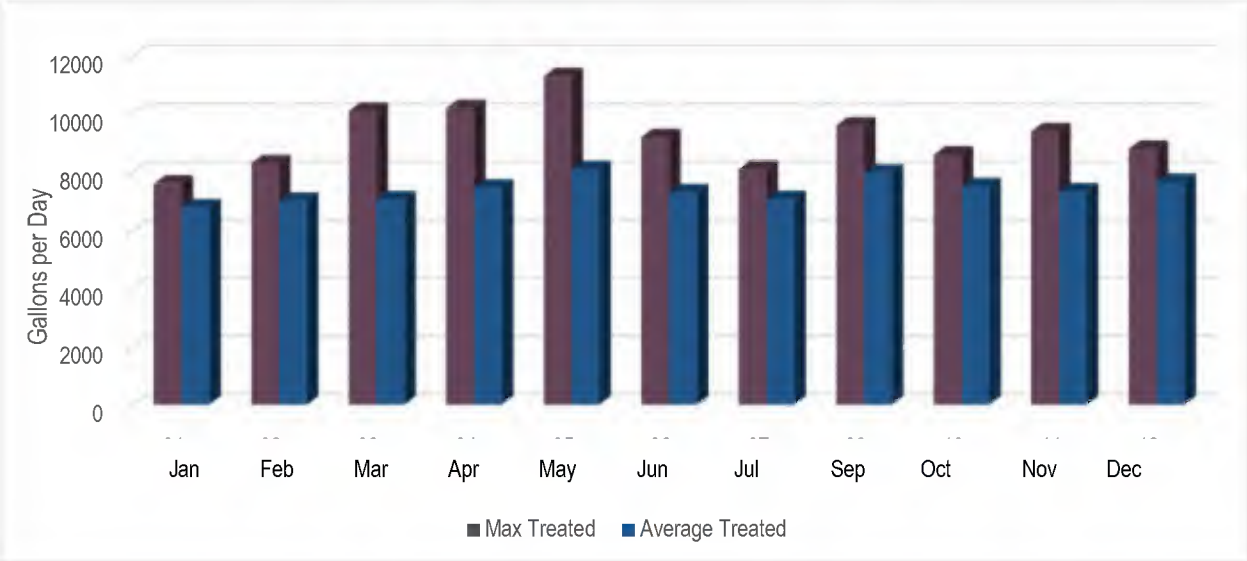
Water System Name	Ashley Heights
PWD ID Number	3424962
Classification	Community
Plant Category & Class	5D
Street Address	5580 NE 11th Ave
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	154 (Sanitary Survey)
Number of Service Connections	44 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	7,384 GPD (2019 Monthly Reporting)
Maximum Day Water Use	63,000 GPD* (Sanitary Survey)
Max-Day Design Capacity	44,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

*Abnormality Recorded on January 3rd, 2020, possibly due to a leak

1.2 Water Use

Potable water usage in the Ashley Heights community is depicted in Figure 1-1.

Figure 1-1: Ashley Heights Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 though a 2-inch Master Meter and check valve into the 5,000-gallon steel hydropneumatic tank. The well pump turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and flows through a 3-inch Kent flow meter and out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	120 feet deep, 62 GPM	1991 (Sanitary Survey)	Poor
Treatment	Disinfection	Sodium Hypochlorite	Unknown	Poor
Storage	Hydropneumatic Tank	5,000 gallons, Steel	Unknown	Poor
Building	CMU	8 by 5.3 feet	Unknown	Fair

2.1.1 Source

The Ashley Heights well is located next to the treatment building and tank within a locked fenced in area and is about 25 feet from NE 11th Avenue The top of well casing is about 12 inches above grade and within a concrete pad. The well is 120 feet deep with one submersible Sta-Rite 62 GPM pump, 5 HP motor, single phase, and 230 Volts.

There is a check-valve on the discharge of the well pipe with a screen that is used as the air vent, and a sample tap. There is a capped pipe off the side for the purpose of introducing shock chlorination to the well, if needed.

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydro pneumatic tank. The chlorine mix is unknown and is housed in two 35-gallon day tanks located inside the pump station building. The chemical pump is a peristaltic 17 GPD Stenner Pump, set at 50% stroke. The average distribution residual in 2019 was 0.8 mg/L.

The chlorine pump will turn on when the pump is energized. The chemical pump outlet is wired to the well pump starter.

Table 2-2: Ashley Heights Chemical Metering Pumps

Chemical Pump	Chlorine
Number of Pumps	1
Brand	Stenner
Model	85MPHP17
Size	17 GPD

Figure 2-2: Chlorine Treatment

2.1.3 Storage

The Ashley Heights water treatment plant has a 5,000-gallon hydropneumatic storage tank on-site. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed, as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in December 2018 and stated that the tank shell and head was in overall fair condition, the exterior condition was in overall good condition, but the interior coating was in poor condition with corrosion and areas with no interior coating. Please refer to Appendix B for the 2018 Tank Inspection Report.

During the site inspection, the tank was observed to be waterlogged likely due to a faulty check valve on the tank inlet line.

2.1.4 Pump Station Building

The pump station building is an 8 by 5.3-foot CMU building with a wooden roof primarily used for storage of the chlorine mixing, injection tank, and facility logbook. The building has no door but has an opening with a width of 41 inches. The building had no evidence of roof leaks or rodents, but the open door provides no containment for spills or protection from weather, rodents, and insects. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

Figure 2-3: Pump Station Building and Storage Tank

2.1.5 Back-Up Power

There is no emergency generator onsite or quick-connect for a portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on December 18, 2020 and stated that no deficiencies were noted during the inspection. In addition, no compliance issues or violations were observed in the Florida Department of Environmental Protection information portal in the last ten years. Please refer to Appendix E for the Sanitary Survey Report.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be necessary for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the

site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Source of Supply

There is a screened check valve on the well head that is functioning as an air vent that appears to have failed. This should be replaced. The well pump injects air into the hydropneumatic tank with each cycle, and without the functioning vent, the hydropneumatic tank was observed to be out of balance (waterlogged).

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental spills into the environment. Currently there are two 35-gallon drums for chlorine. These containers should be stored on a pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005.

Compliance can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG PAK 604 containment pallet with a 66-gallon containment capacity , kept in the pump station building. An example of the containment pallet is shown in Figure 2-4. Containment pallets are cost effective and available through multiple suppliers.

Figure 2-4: PIG 66-Gallon Containment Pallet

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The system has a 3-inch Kent meter on the discharge side of the pressure tank, which is read by the operator and manually recorded. This will have to be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

The hydropneumatic tank inspection report noted the tank interior to be in poor condition, with significant areas where no coating was present. Corrosion was also noted throughout the interior walls. The tank age is not known, but likely over fifteen years old. The tank interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in the 1991 and supplies water to four blocks using 6-inch PVC water main in a loop configuration with blowoff valves on dead ends. The loop has gate valves to isolate sections if needed and three blow-off valves. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes, and each home as its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the Ashley Heights plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Ashley Heights to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Ashley Heights is: **$22,000**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$10,000
Mission Monitoring at Well	$10,000
Total	$21,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,000
Total	$1,000

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Ashley Heights to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Table 4-3 through 4-6. The total cost estimate for Capital Improvements at Ashley Heights is: **$74,000**.

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$3,500
Total	$3,500

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$7,000
Total	$18,500

Table 4-5: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Total	$27,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
General Building and Site Improvements	$25,000
Total	$25,000

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

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

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 +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: 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 (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 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.
▪

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:

_____

☐ 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 refincries; 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 deposit
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

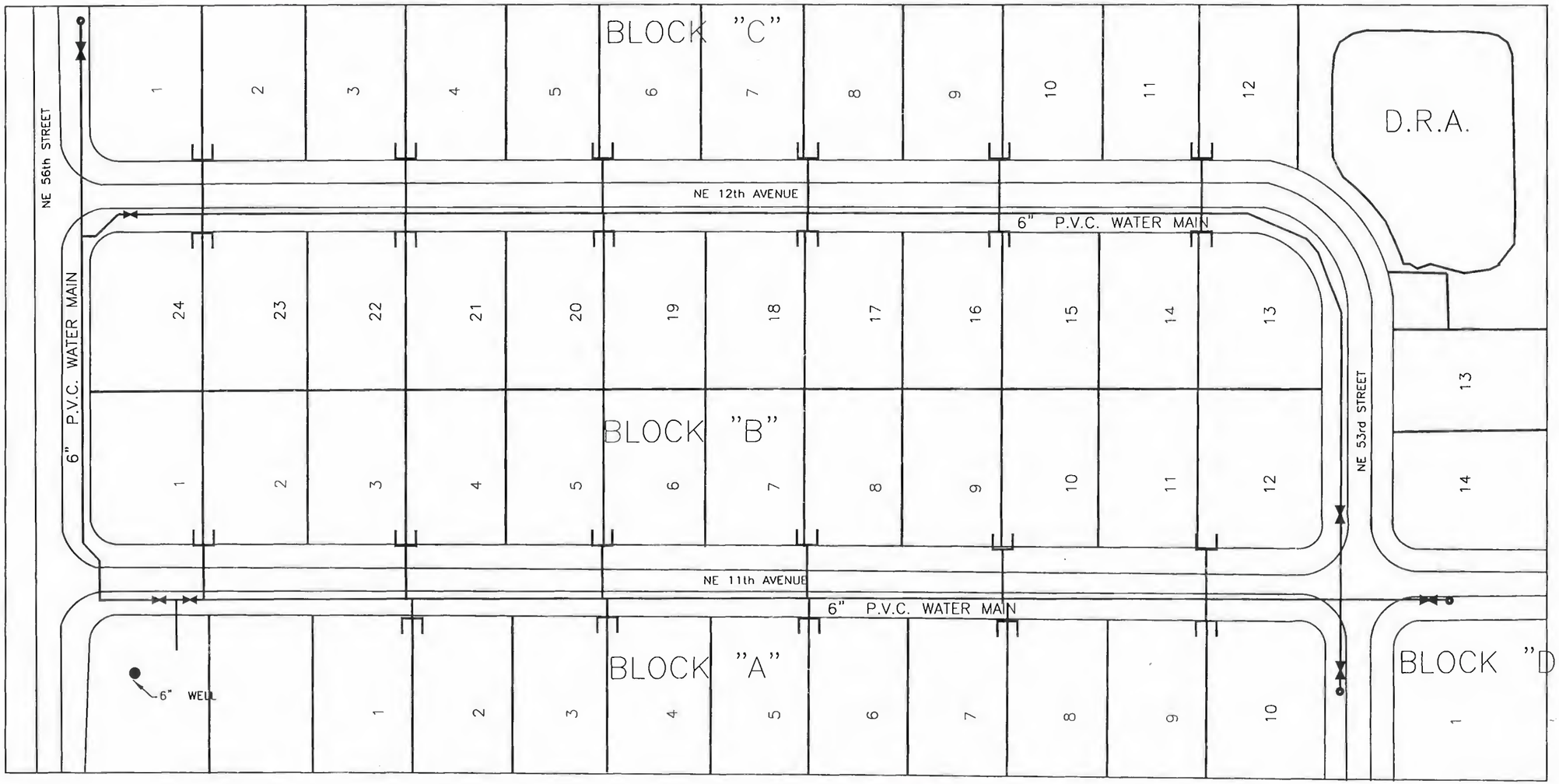
ASHLEY HEIGHTS SUBDIVISON

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



H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST., SUITE 602 OCALA, FLORIDA 34471
PH (352) 840-9600 FAX (352) 840-9774

ASHLEY HEIGHTS
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9635-02

1

Sheet 1 Of 1

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Belleview Oaks Estates. A summary of the main parameters for the water system are summarized below in Table 1-1.

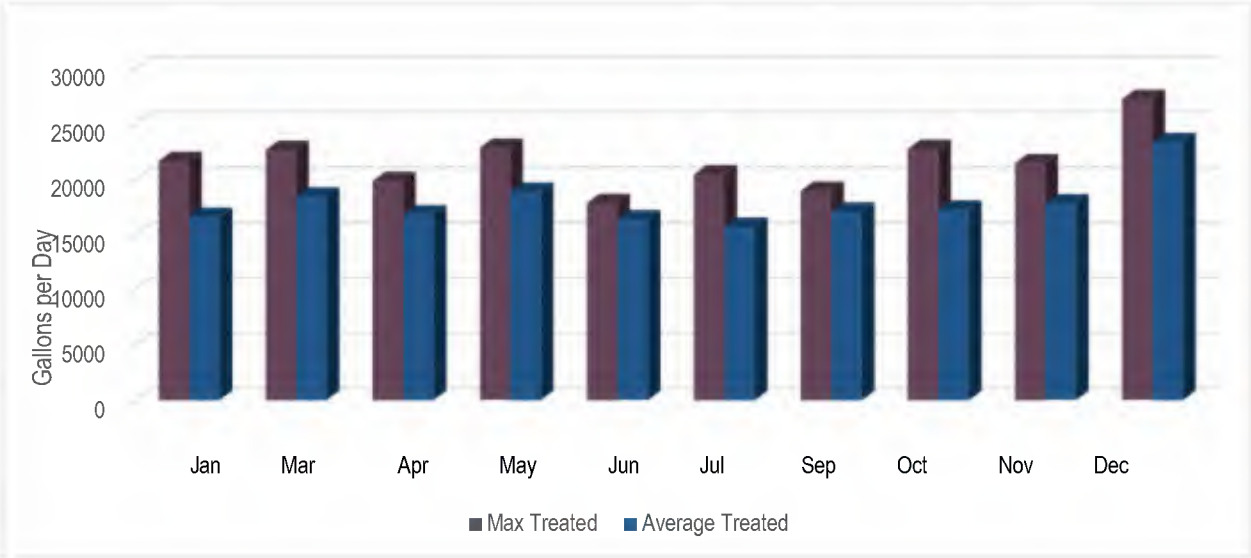
Table 1-1: Belleview Oaks Estates System Information

Water System Name	Belleview Oaks Estates
PWD ID Number	3424621
Classification	Community
Plant Category & Class	5D
Street Address	CR 25A & SE 76th Avenue
City, State	Belleview, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	294 (Sanitary Survey)
Number of Service Connections	84 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	17,780 GPD (2019 Monthly Reporting)
Maximum Day Water Use	27,200 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	147,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Belleview Heights community is depicted in Figure 1-1.

Figure 1-1: Belleview Oaks Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 through a 3-inch swing check valve into a 2,000-gallon steel hydro pneumatic tank. The well pump turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and normally flows through a 3-inch flow meter and out to the distribution system. At the time of the inspection, the flow meter was not working, and Sunshine Utility installed a temporary tube to bypass flow.

Table 2-1: Major System Components

Purpose	Type	Deta ls	Age (Source)	Condition
Source	Well 1	160 feet deep, 150 GPM	1983 (Sanitary Survey)	Fair
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	2,000 gallons, Steel	Approx. 1988 (Tank Inspection Report)	Poor

2.1.1 Source

The Belleview Oaks Estates well is located within a locked fenced in area and is located roughly 20 feet from SE 76th Avenue. The top of the well casing is 12 inches above grade and within a concrete pad. The well is 160 feet deep with one submersible 150 GPM pump with a 10 hp motor at 230 Volts.

There is a check-valve on the discharge of the well pipe with a screen that is used as the air vent, and a sample tap.

There is one potential source of contamination within a 1000-foot radius of the well. The potential contaminant source is a petroleum storage tank and is listed as a low concern level by FDEP. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydro pneumatic tank. The chlorine mix is 1:4 of 10.5% chlorine to water and is housed in two 50-gallon drums located outdoors, one is used for mixing the chlorine and the other drum is used for storage. The chlorine pump is a diaphragm 12 GPD Uni-Dose, set at 60% stroke. The average distribution residual in 2019 was 0.8 mg/L. The chemical metering pump at Belleview Oaks Estates is shown in Table 2-2.

The chlorine pump will turn on when the pump is energized, and the chemical pump outlet is wired to the well pump starter.

Table 2-2: Belleview Oaks Chemical Metering Pumps

Chemical Pump	Chlorine
Number of Pumps	1
Brand	Uni-Dose
Model	U021-2811TT
Size	0.50 GPH

Figure 2-2: Chemical Treatment

2.1.3 Storage

The Belleview Oaks water treatment plant has a 2,000-gallon hydropneumatic storage tank on-site, shown in Figure 2-3. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed, and a drain gate valve located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The sight tube is installed so that the top of the tube is in the middle of the tank and the working volume is typically at the ¾ mark of the tank, so the tank water level is not visible. The pressure gauge in the tank had water in the casing and was

reading a pressure of 50 psi. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup. During the inspection, rust was observed on the exterior of the tank.

The most recent inspection on the storage tank was performed by Enviro-Tech in November 2018 and stated that the tank exterior was in overall good condition and the interior of the tank appeared to be in poor condition. The tank interior had significant areas with no coating and corrosion noted throughout the floor and walls of the interior. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-3: Storage Tank

2.1.4 Pump Station Building

The Belleview Oaks treatment plant has no building on-site. The well, tank, and chemical treatment is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

2.1.5 Back-Up Power

There is no emergency generator onsite or a quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years, however Sunshine Utility's 2018 and 2017 Consumer Confidence reports did report more than one-half of the allowable limits of nitrates. Please refer to Appendix D for the 2019 Consumer Confidence Report.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on March 30, 2020 and the report stated that no deficiencies were noted at the time of inspection. Please refer to Appendix E for the Sanitary Survey Report. The plant received two violations in the past ten years related to Disinfection By-products Monitoring and Reporting on November

20, 2018, and the plant returned to compliance on November 26, 2018. Additionally, the plant had no bacteria detected during monthly sampling in 2019.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The plant has no building or structure in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to construct a building onsite to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-4), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-4: Belleview Electrical Box

2.3.2 Source of Supply

The plant's original well was collapsed back in the 1980's, and the well casing is capped and still located onsite, shown in Figure 2-5. This should be plugged by filling with grout from bottom to top per FL Administrative Code 40D-3.531.

Figure 2-5: Collapsed Well

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 50-gallon drums for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005.

In order to install secondary containment for the chemical storage, a structure will have to be installed to protect the secondary containment from filling with rainwater. In addition, a structure around the chemical drums will offer an added protection from damage. This can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-6.

Figure 2-6: PIG 66-Gallon Tank Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The system has a broken 3-inch Kent meter on the discharge side of the pressure tank, which is read by the operator and manually recorded. The broken flow meter is inhibiting flow so there is a temporary by-pass tubing setup, shown in Figure 2-7. The broken meter should be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

Figure 2-7: Bypass Tubing

The hydropneumatic tank inspection report noted the tank interior to be in poor condition, with significant areas where the no coating was present. Corrosion was also noted throughout the interior walls. There was also observed rust on the tank exterior, see Figure 2-8. The tank is over fifteen years old, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

Figure 2-8: Rust on Storage Tank

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1983 and supplies water using a 4-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed and has plugs at dead ends. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system, and Appendix G for the As-Built plans.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. There does not appear to be any blow-off points. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

The distribution system map does not show any flush points in the system but does have plugs located on dead-ends. The plugs on the end of the system at the intersection of S.E. 112th Lane and S.E. 74th Avenue and the dead end at the plug at the end of Country Road 25 A should be replaced with flush points. An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Belleview Oaks to normal operating conditions are summarized with cost estimates in Tables 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Belleview Oaks Estates is: **$31,200.**

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$15,000
Mission Monitoring at Well	$10,000
Total	$26,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1 700
Replace Distribution Meter	$3,500
Total	$5,200

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Belleview Oaks to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-6.The total cost estimate for Capital Improvements at Belleview Oaks Estates is: **$76,500.**

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Plug Abandoned Well	$4,000
Total	$4,000

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$5,000
Total	$16,500

Table 4-5: Water Distribution System Capital Improvements

Recommendation	Estimate
Install Blowoff Valves	$4,000
Automatic Flushing Unit	$27,000
Total	$31,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repair	$25,000
Total	$25,000

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

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

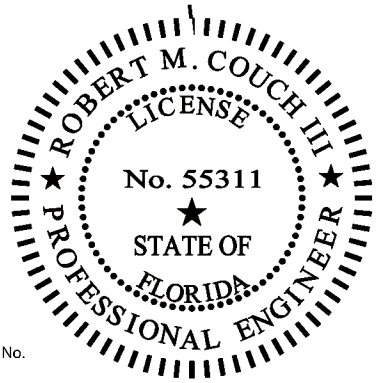
Belleview Oaks Estates Subdivision Tank

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



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 +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: 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 (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 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:

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 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:

_____

☐ 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

Amada Fernandez
Printed Name

Environmental Specialist II
Title

4/13/20
Date

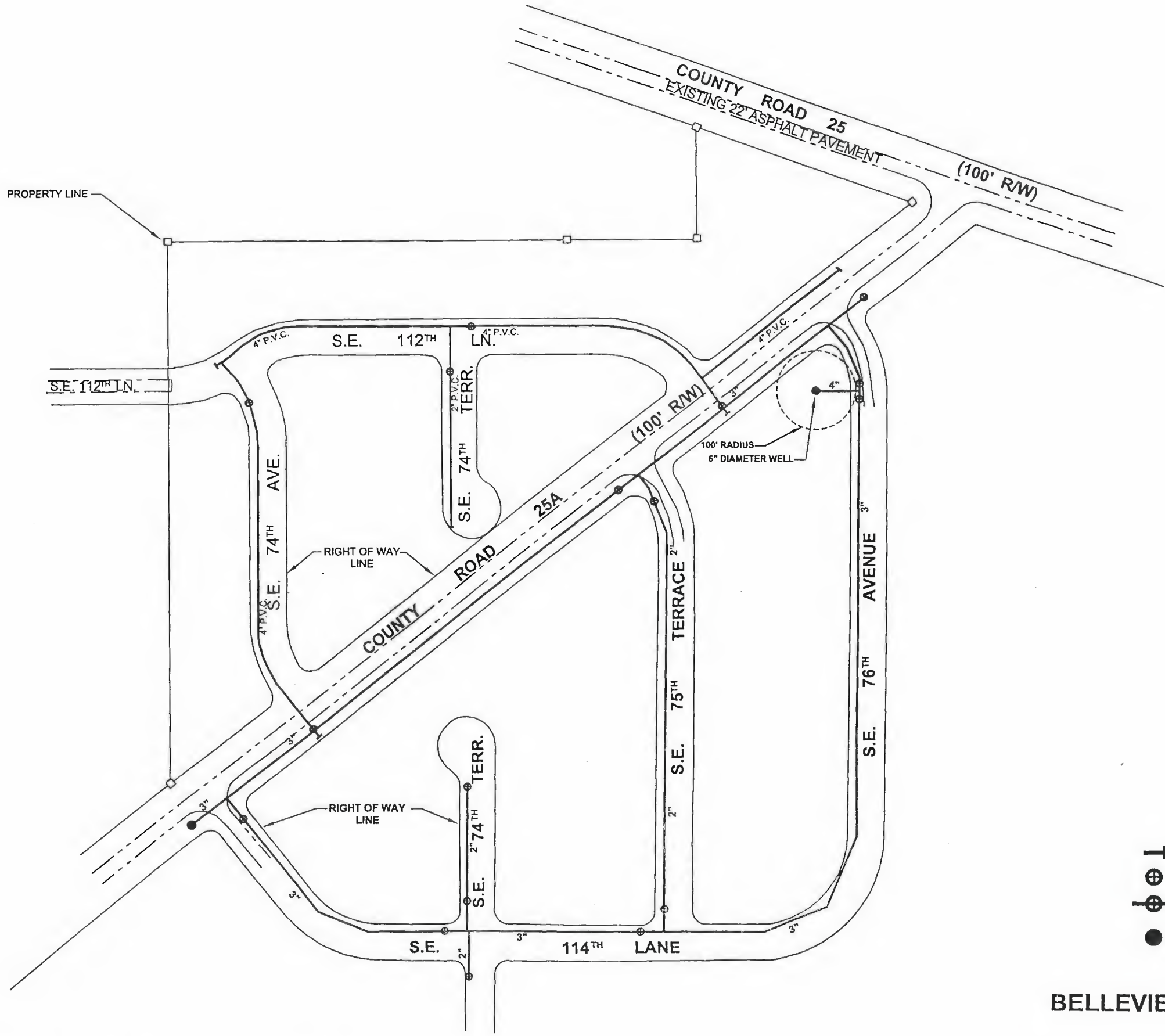
Reviewer Signature

Jill Farris
Printed Name

Environmental Manager
Title

4/16/20
Date

APPENDIX F: DISTRIBUTION MAP



LEGEND

- PLUG
- 4" GATE VALVE
- 4" TAPPING SLEEVE W/ GATE VALVE
- WELL

N.T.S.

BELLEVIEW OAKS ESTATES

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

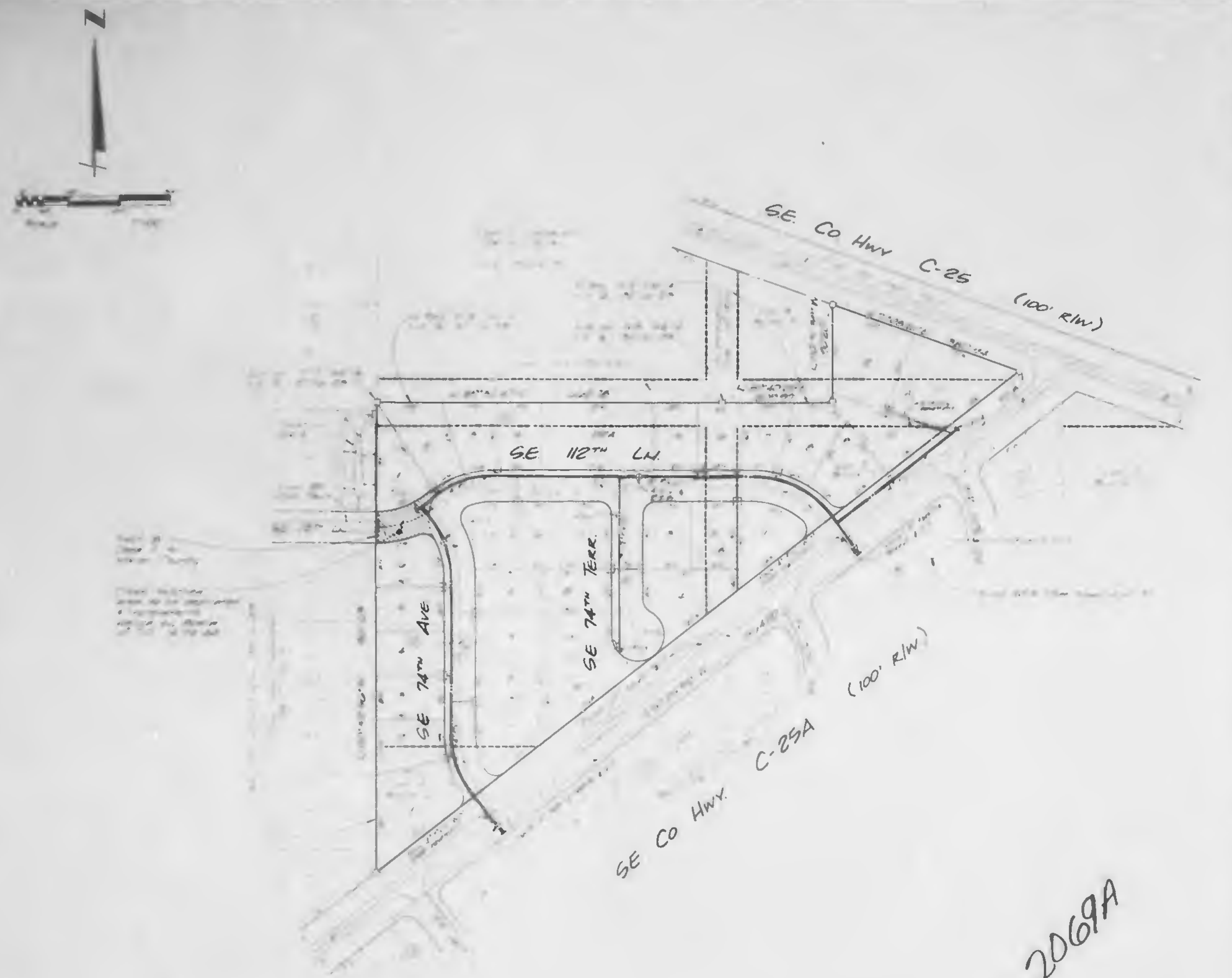
FACILITY WATER SYSTEM

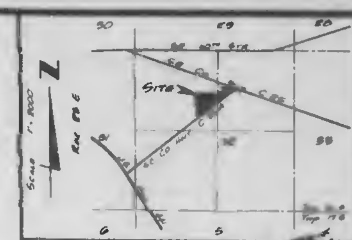
BELLEVIEW OAKS ESTATES
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRN	CHK	DATE	DESCRIPTION
SAD	RJW	14 JUL 99	ORIGINAL ISSUE

Project No. 9636-02

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, 1944.00 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, 662.70 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°4?'25"E., along the North boundary of said West 1/2 209.97 feet; 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

LEGEND:

- ℄ Centerline
- R/W Right-of-Way
- R Radius
- WM Water Main
- GV Gate Valve
- TB Temporary Blowoff
- FH Fire Hydrant
- PVC Poly-vinyl Chloride
- GIP Galvanized Iron Pipe
- DIP Ductile Iron Pipe
- HP Horsepower
- LF Lineal Feet
- LS Lump Sum
- EA Each
- Gate Valve
- Single Water Service
- Double Water Service
- WPS Water Plant Site
- SLS Sewer Lift Station
- DRA Drainage Retention Area
- DROW Drainage Right-of-Way
- DER Department of Environmental Regulation

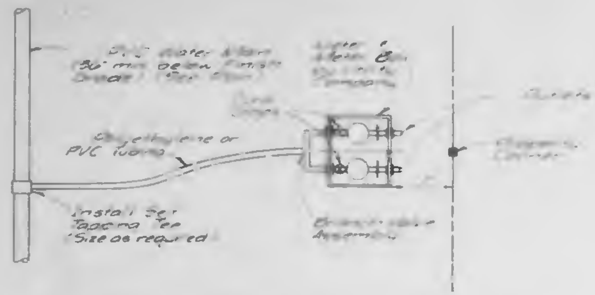
APPROVED
WATER SYSTEM
AUG 15 1984

Water Distribution System

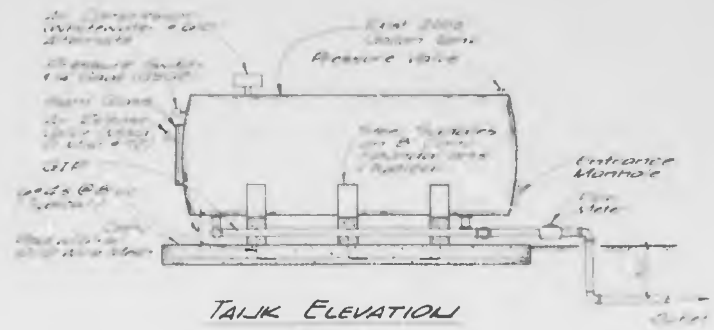
Belleview Oaks Estates
Unit No. 2
Class "A" Group 1 Subdivision
Marion County Florida

Sheet 1 of 3

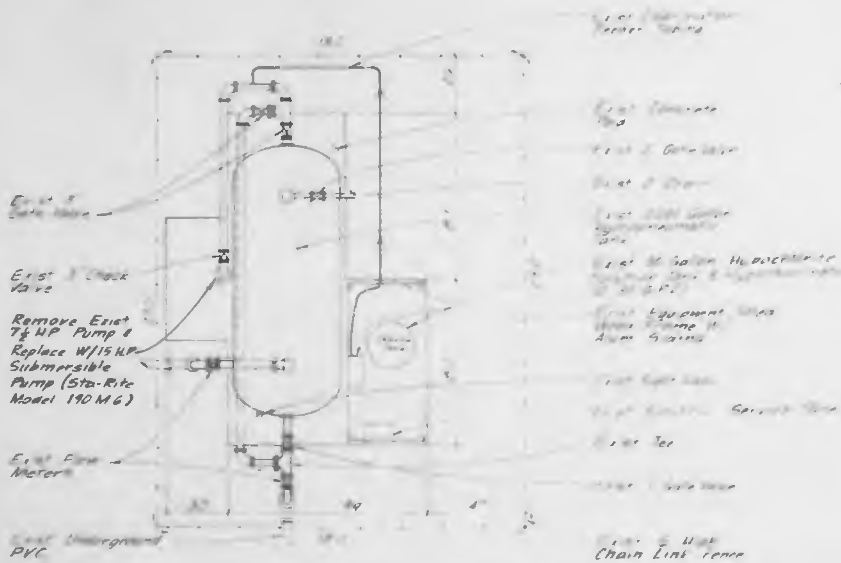
CARBAUGH & ASSOCIATES
ENGINEERS • SURVEYORS
2101 SW COLLEGE ROAD SUITE NO. 8
OCALA, FL 32674 TELE (904) 237-2161



TYPICAL WATER SERVICE CONNECTION

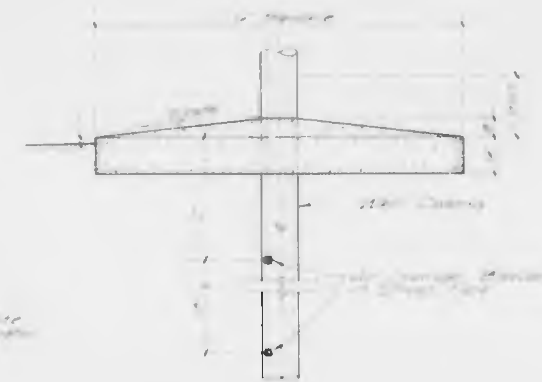


TANK ELEVATION



EXISTING PNEUMATIC WATER SUPPLY SYSTEM

NO SCALE



WELL PAD DETAIL

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 Chapter 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 @ 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 ... North or West of street ℄ unless otherwise shown.

CARBAUGH & ASSOCIATES
ENGINEERS · SURVEYORS

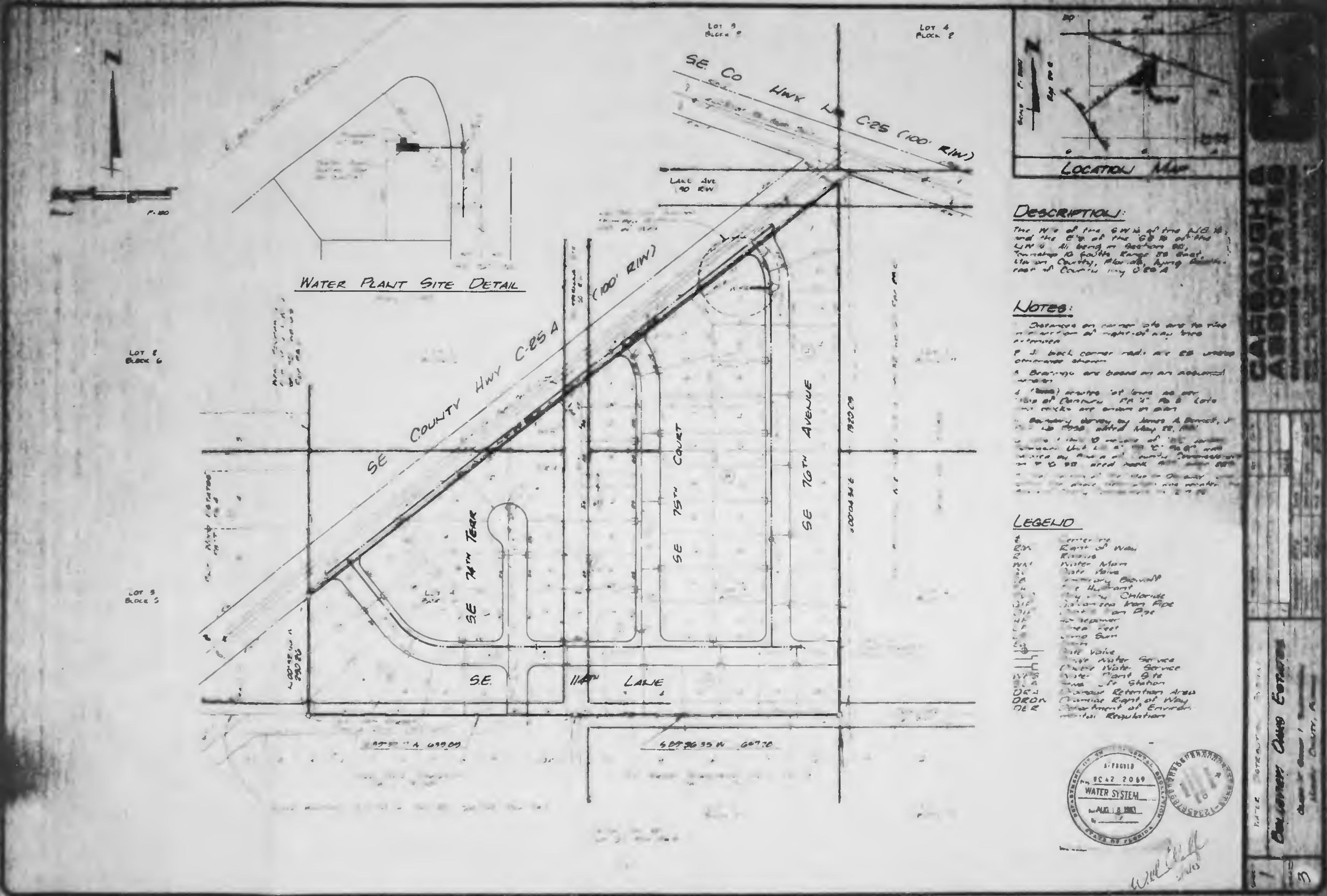
EXISTING ... SUPPLY SYSTEM

BELLEVIEW OAKS ESTATES

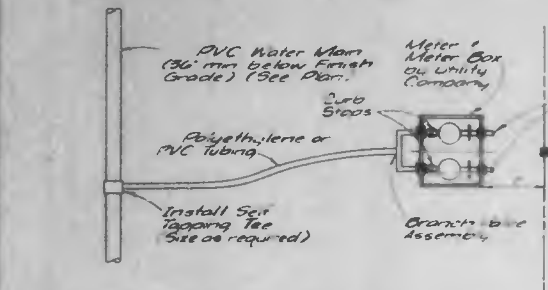
APPROVED

2

3

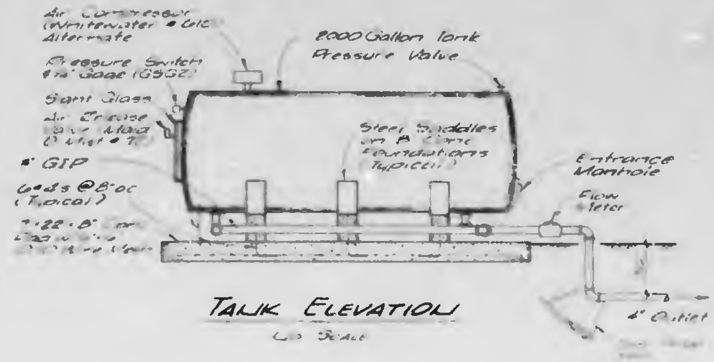


WATER PLANT SITE DETAIL
SE CO HWY No C-25 (100' R/W)
SE COUNTY HWY C-25 A
(100' R/W)
LAKE AVE
90 R/W
LOT 8
BLOCK 6
LOT 9
BLOCK 5
LOT 4
BLOCK 8
SE 74TH TERR
SE 75TH COURT
SE 76TH AVENUE
SE 114TH LANE
LOCATION MAP
DESCRIPTION:
NOTES:
LEGEND
Right of Way
Radius
Water Main
Fire Hydrant
Galvanized Iron Pipe
Gate Valve
Single Water Service
Double Water Service
Water Plant Site
Drainage Retention Area
Drainage Right of Way
Department of Environmental Regulation
WATER SYSTEM



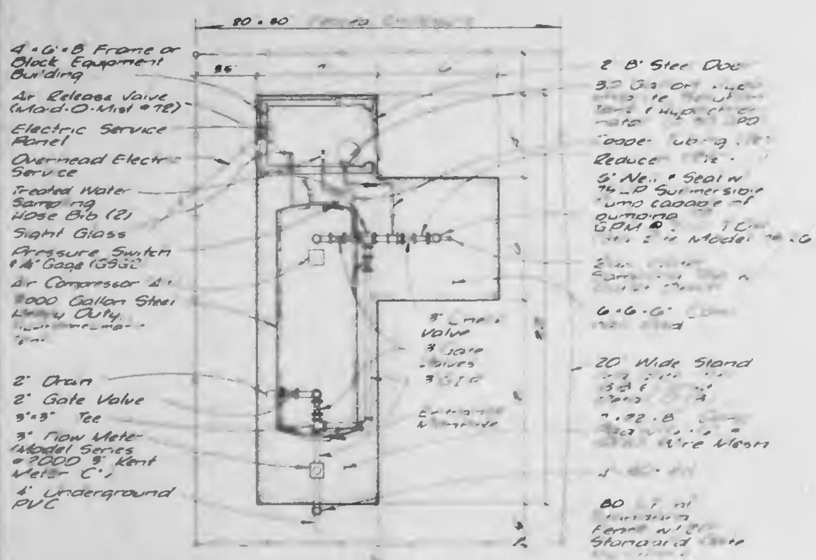
TYPICAL WATER SERVICE CONNECTION

No Scale



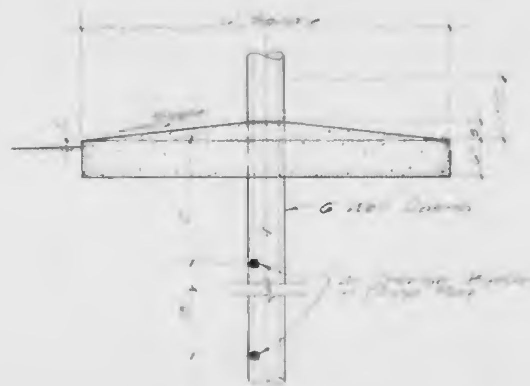
TANK ELEVATION

No Scale



PNEUMATIC WATER SUPPLY SYSTEM PLAN

No Scale



WELL PAD DETAIL

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 [illegible] Tech, Model 030 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 [illegible] Works Manual of Marion County Florida

10 All waterlines shall be installed 17' North or West of street [illegible] 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 [illegible] contractor

13 All PVC pipe must bear the [illegible] for Potable Water [illegible]

14 Water Valves and covers shall not be located in pavement unless necessary

15 All dead end lines shall be [illegible] with temporary blow-offs [illegible] be [illegible] after [illegible] and satisfactory test results

16 The waterline contractor shall make pressure tests and [illegible] bacteria [illegible] samples from locations [illegible] to the DER [illegible]

17 All materials shall be in accordance with the construction [illegible] of the "Public Works Manual of Marion County, Florida only to the extent of Material Requirements and Quality Control

18 [illegible] contractor shall [illegible] satisfactory well survey [illegible] of a minimum of 30 [illegible] in accordance with DER [illegible] and obtain [illegible] and secondary chemical [illegible] analyses and gross alpha

19 Well completion report, well [illegible] and water analysis shall be submitted to the project [illegible] prior to construction of the Water Supply System [illegible] waterline

WATER SUPPLY SYSTEM

BELLEVIEW OAKS ESTATE

2

3

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Country Walk Subdivision

WOODARD &CURRAN

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

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Country Walk. A summary of the main parameters for the water system are summarized below in Table 1-1.

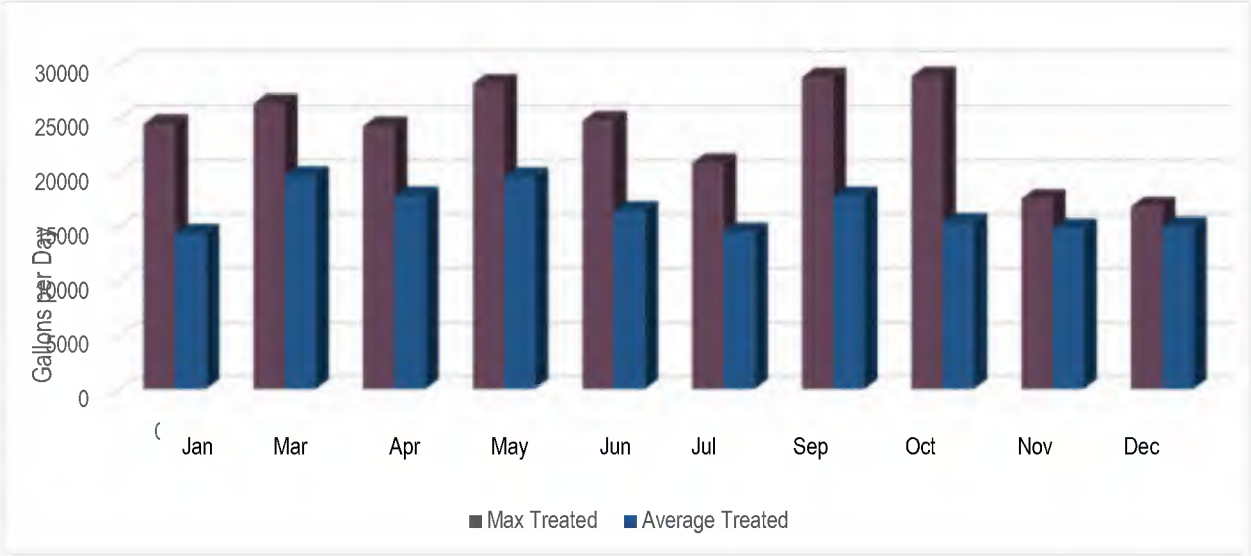
Table 1-1: Country Walk System Information

Water System Name	Country Walk
PWD ID Number	3424657
Classification	Community
Plant Category & Class	5D
Street Address	6036 SE 122nd Lane
City, State	Belleview, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	189 (Sanitary Survey)
Number of Service Connections	65 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	16,457 GPD (2019 Monthly Reporting)
Maximum Day Water Use	28,800 GPD (Sanitary Survey)
Max-Day Design Capacity	132,480 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in Country Walk community is depicted in Figure 1-1.

Figure 1-1: Country Walk Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 though a check valve and a 2-inch Master flow meter and into the 2,000-gallon steel hydropneumatic tank. The well pump turns on when the pressure tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and flows out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	140 feet deep, 150 GPM	1985 (Sanitary Survey)	Fair
Treatment	Disinfection	Sodium Hypochlorite	Unknown	Poor
Storage	Hydropneumatic Tank	2,000 gallons, Steel	Unknown	Poor
Building	CMU	10 by 5.3 Feet	Unknown	Fair

2.1.1 Source

The Country Walk well is located next to the treatment building and tank within a locked fenced in area and is about 30 feet from SE 122nd Ln. The top of the well casing is 12 inches above grade and within a concrete pad. The well is 140 feet deep with one submersible 150 GPM pump, 10 HP motor at 230 Volts and is shown in Figure 2-1. There is a 2-inch Master Meter at the well, shown in Figure 2-2.

There is a check-valve on the discharge of the well pipe with a screen that is used as the air vent, and a sample tap off the top.

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

Figure 2-2: Well Meter

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydro pneumatic tank. The chlorine mix is 1:4 of 10.5% chlorine to water and is housed in two 50-gallon drums. One drum is used for mixing and one drum is used for chemical

storage and are located inside the pump station building. The chemical storage tank is shown in Figure 2-3. The chemical pump is a peristaltic 15 GPD Chem-Tech Pump, set at 50% stroke. The average distribution residual in 2019 was 1.3 mg/L. The chemical metering pump at Country Walk is shown in Table 2-2.

The chlorine pump will turn on when the well pump is energized. The chemical pump outlet is wired to the well pump starter.

Table 2-2: Country Walk Chemical Metering Pumps

Chemical Pump	Chlorine
Number of Pumps	1
Brand	Chem-Tech
Model	X015-XA-AAAFXXX
Size	15 GPD

Figure 2-3: Chlorine Treatment

2.1.3 Storage

The Country Walk water treatment plant has a 2,000-gallon hydro pneumatic storage tank on-site, shown in Figure 2-4. The tank is plumbed with 3-inch isolation butterfly valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector

on the sight tube to inject air if needed as a backup. There is a broken 3-inch meter after the tank, shown in Figure 2-5.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in November 2018 and stated that the tank exterior appeared to be in fair condition, but the interior coating was in poor condition with significant areas with no coating and corrosion noted throughout the tank interior. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-4: Storage Tank

Figure 2-5: Broken Distribution Meter

2.1.4 Pump Station Building

The pump station building is a 10 by 5.3-foot CMU building with a wooden roof primarily used for storage of the chlorine mixing, injection tank, and facility logbook. The building has no door but has an opening with a width of 40 inches. The building had no evidence of roof leaks or rodents, but the open door provides no containment for spills or protection from weather, rodents and insects. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

Figure 2-6: Pump Station Building

2.1.5 Back-Up Power

There is no emergency generator onsite or a quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on March 30, 2020 and stated that no deficiencies were noted during the inspection. Please refer to Appendix E for the Sanitary Survey Report. In addition, no compliance

issues or violations were observed in the Florida Department of Environmental Protection information portal in the last ten years.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be needed for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The system has a 2-inch Master meter after the well and a broken 3-inch meter on the discharge side of the pressure tank. The broken meter should be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 50-gallon drums for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. Given the tight space in the building, the additional secondary containment will likely need to move outside. This can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-5. Containment pallets are cost effective and available through multiple suppliers.

Figure 2-7: PIG 66-Gallon Tank Enclosure

The hydropneumatic tank inspection report noted the tank interior to be in poor condition, with significant areas where the no coating was present. Corrosion was also noted throughout the interior walls. The tank is likely over fifteen years old and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1985 and supplies water using 2 to 4-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections if needed, but no blowoff valves were indicated on the distribution map. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes, and each home as its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

The distribution system map does not show any flush points in the system and the map is difficult to read to see if there are any dead-end plugs. Blow off valves should be installed at the end of S.E. 123rd Lane, S.E. 122nd Lane, and along the bottom of S.E. 124th Lane.

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Country Walk to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Country Walk is: **$62,700**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$50,000
Mission Monitoring at Well	$10,000
Total	$61,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Total	$1,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Country Walk to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-6 The total cost estimate for Capital Improvements at Country Walk is: **$74,000**.

.

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$3,500
Total	$3,500

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$5,000
Total	$16,500

Table 4-5: Transmission and Distribution System Capital Improvements

Recommendation	Estimate
Automatic Flashing Unit	$27,000
Install Blowoff Valves	$4,000
Total	$31,000

Table 4-6: General Plant Capital Improvement

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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

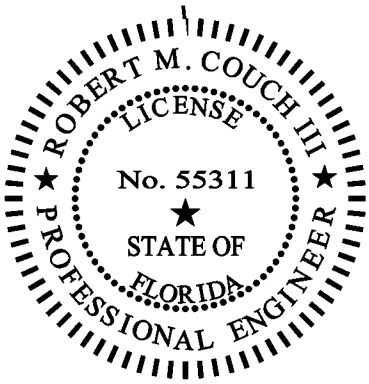
Country Walk Subdivision Tank

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 +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: 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 (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 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.

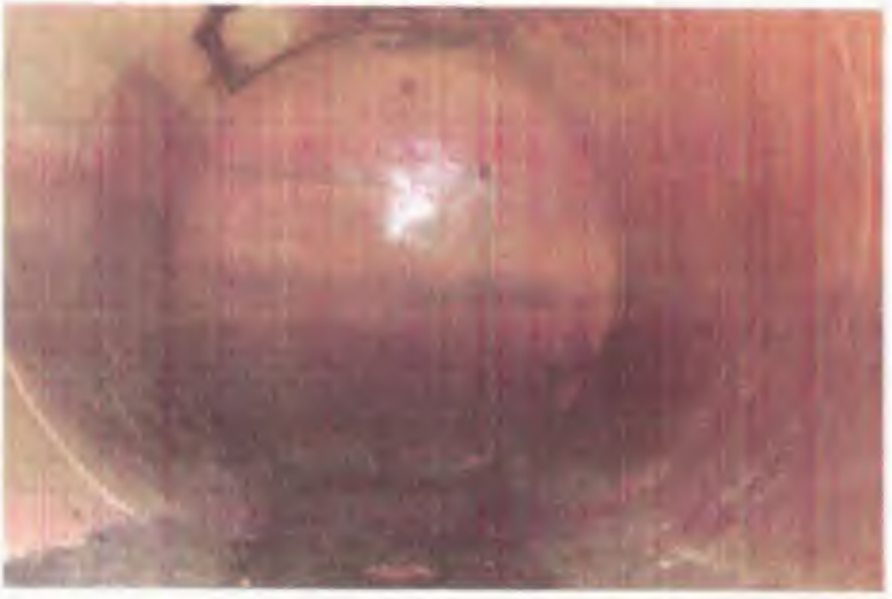
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating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

Table of Contents

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:

_____

☐ 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 deposi
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.]

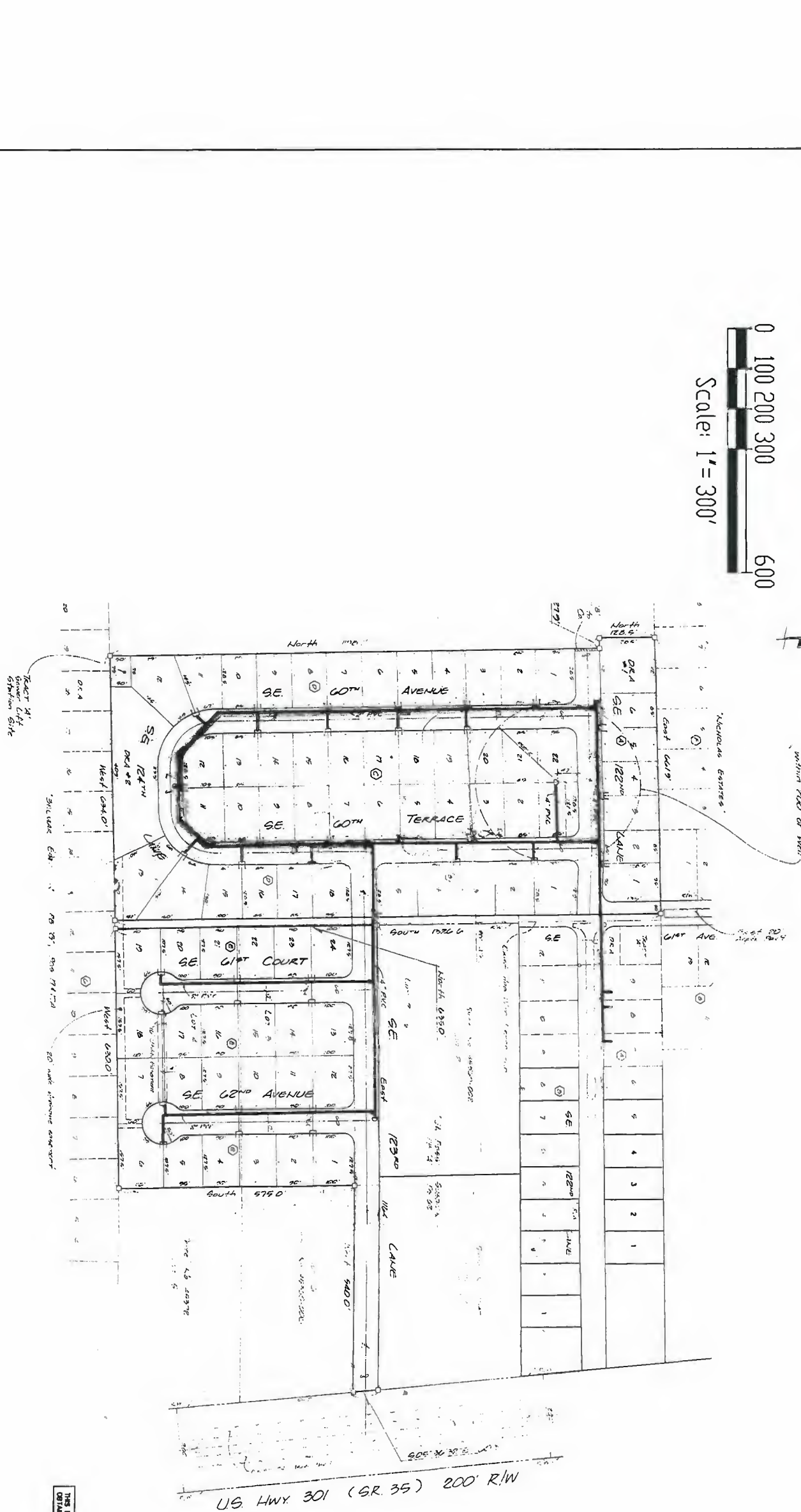
- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

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

0 100 200 300 600

Scale: 1"= 300'



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. 838-02

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) 840-9528
(352) 840-9774

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Eleven Oaks Subdivision. A summary of the main parameters for the water system are summarized below in Table 1-1.

Table 1-1: Eleven Oaks System Information

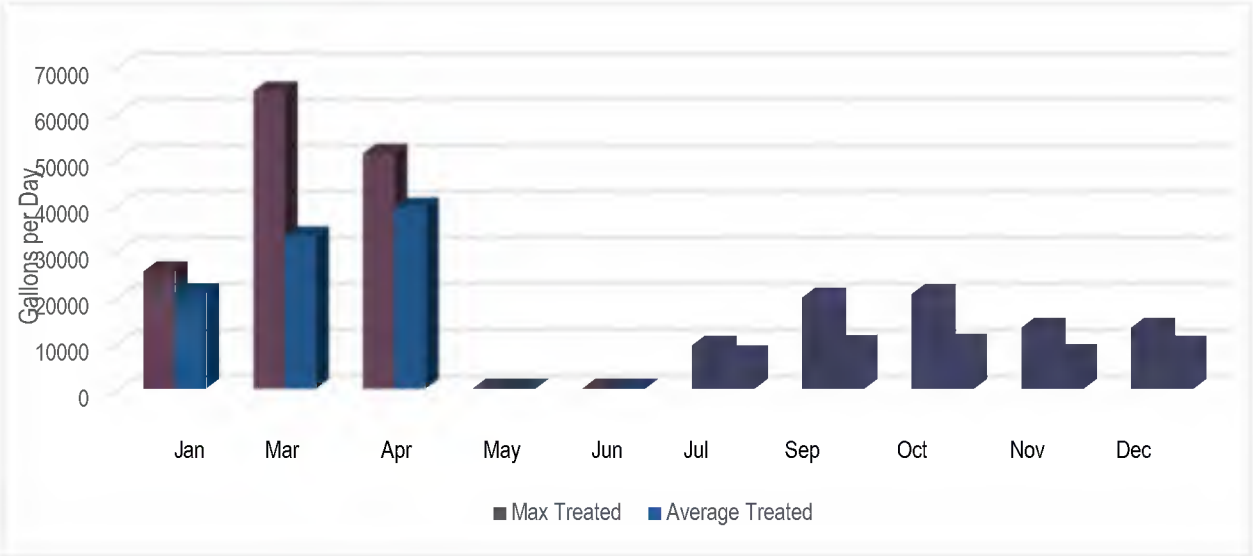
Water System Name	Eleven Oaks
PWD ID Number	3424099
Classification	Community
Plant Category & Class	5D
Street Address	2767 NE 60th Lane
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	126 (Sanitary Survey)
Number of Service Connections	36 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	17,074 GPD (2019 Monthly Reporting)
Maximum Day Water Use	65,500 GPD* (2019 Monthly Reporting)
Max-Day Design Capacity	39,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

*The system exceeded the max day capacity in February and March 2019. The cause is not known.

1.2 Water Use

Potable water usage in the Eleven Oaks community is depicted in Figure 1-1.

Figure 1-1: Eleven Oaks Average Water Use 2019



Source: 2019 Monthly Operating Reports
Flow meter was not working from March 16th to July 16th, 2019.

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 through a check valve and two screen strainers into a 2,000-gallon steel hydropneumatic tank. The well pump turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Prior to entering the tank chlorine is injected for disinfection and polyphosphate (Aqua Gold) is injected for iron sequestration. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and flows through a 3-inch Kent flow meter and out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	200 feet deep, 55 GPM	1981 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Treatment	Corrosion Control	Aqua Gold	Unknown	Poor
Storage	Hydropneumatic Tank	2,000 gallons, Steel	Approx. 2003 (Tank Inspection Report)	Poor

2.1.1 Source

The Eleven Oaks well, shown in Figure 2-1, is located next to the tank within a locked fenced in area and is located roughly 80 feet down a tight dirt road as shown in Figure 2-2. The top of the well casing is about 6 inches above grade and within a concrete pad. The well is 200 feet deep with one submersible Sta-Rite 55 GPM pump, 3 HP motor, and 230 Volts. The well pump was recently replaced in 2018. The top of the well head casing is lower than the required 12-inch height. FDEP has noted they will continue to accept the current height unless there is evidence of chemical or microbial contamination.

There is a bleeder vent that is used as the air vent, and a sample tap off the top. The well casing appeared to be in poor condition with missing bolts, and the case exterior was rusted.

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

Figure 2-2: Well and Treatment Access Road

2.1.2 Treatment

Prior to chemical injection, there are two 3-inch screen strainers with flush points, shown in Figure 2-3. Chlorine is injected for disinfection, and the mix is 1:5 of 10.5% chlorine to water. Straight chlorine is housed in a 50-gallon drum and diluted chlorine is housed in a 30-gallon drum; both are located outside and shown in Figure 2-4. The chlorine pump is a diaphragm 12 GPD Unidose, set at 90% stroke. The average distribution residual in 2019 was 1.0 mg/L.

Phosphate (Aquagold 170) is injected for iron and manganese sequestration. The solution is not diluted and is housed in a 30-gallon drum located outside next to the chlorine treatment. The Aqua Gold pump is a peristaltic 17 GPD Stenner set at 30% stroke. The chlorine and phosphate pumps will turn on when the pump is energized. The chemical pump outlets are wired to the well pump starter. The chemical metering pumps located on site are shown in Table 2-2.

Table 2-2: Eleven Oaks Chemical Metering Pumps

Chemical Pump	Chlorine	Poly Phosphate
Number of Pumps	1	
Brand	Stenner	Uni-Dose
Model	85MPHP17	U021-281TT
Size	17 GPD	0.5 GPH

Figure 2-3: Screen Strainers

Figure 2-4: Chemical Treatment

2.1.3 Storage

The Eleven Oaks water treatment plant has a 2,000-gallon hydropneumatic storage tank on-site, shown in Figure 2-5. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed, and a drain gate valve located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in December 2018 and stated that the tank shell, head, and exterior condition was in overall good condition and the interior of the tank appeared to be in fair condition. The tank interior did have significant areas where the coating had failed on the interior tank surface and there was corrosion noted on the ridge and side walls of the tank interior. There is a steel patch located on top of the tank, apparently applied to address a leak. This patch was added after the 2018 Tank Inspection Report. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-5: Storage Tank

2.1.4 Pump Station Building

The Eleven Oaks treatment plant has no building on-site. The well, tank, and chemical treatment is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

There is heavy vegetation growing around and above the site.

2.1.5 Back-Up Power

There is no emergency generator onsite or a quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 13, 2018 and stated that no deficiencies were noted during the inspection. Please refer to Appendix E for the Sanitary Survey Report.

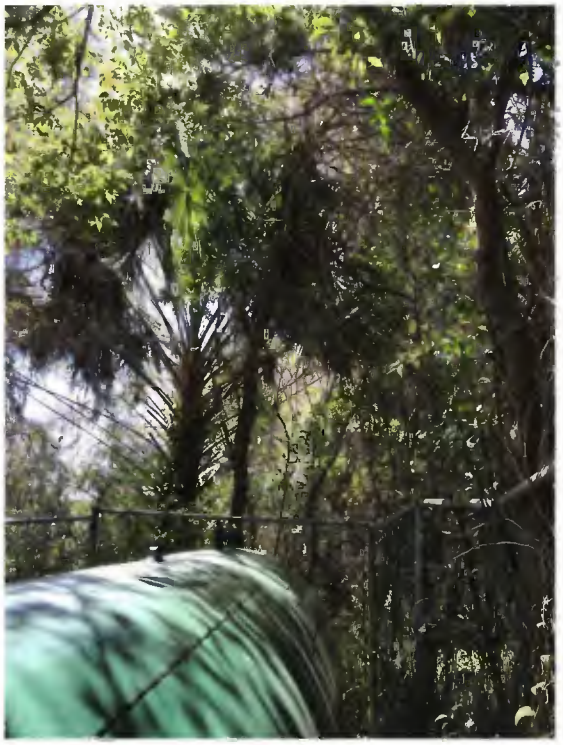
The plant received one violation in the past ten years related monitoring and reporting of the source water in 2014.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

The treatment site has no building or structure around the equipment, and it is located in an area with heavy vegetation. It is recommended the trees and branches above and around the site be cleared, and the growth along the access path be cut back. This will cut down on debris build-up at the site and damage from a fallen tree or branch. A photograph of the vegetation growth is shown in Figure 2-6.

Figure 2-6: Vegetation Growth at Site



There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The plant has no building or structure in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to construct a building onsite to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be needed for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Source of Supply

The well is in poor condition, with portions of the well exposed to atmosphere. This puts the well at risk of microbial contamination. Figure 2-7 shows a missing bolt that should be replaced to properly seal the well. The Florida Administrative Code 64E-8.005 requires the well to be watertight.

Figure 2-7: Unsealed Wellhead

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental spills into the environment. Currently there are two 30-gallon tanks for chlorine, 30-gallon tank for poly phosphate, a spare poly phosphate 30-gallon tank. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals, and the spare poly phosphate tank should be removed. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. Two tank enclosures can be used to store the chlorine and phosphate, such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-8.

Figure 2-8: PIG 66-Gallon Tank Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The system has a 3-inch Kent meter on the discharge side of the pressure tank, which is read by the operator and manually recorded. This will have to be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

The hydropneumatic tank inspection report noted the tank interior to be in fair condition, with significant areas where the coating had failed. Corrosion was also noted in the interior walls. Since the tank inspection was done in 2018, a steel patch has been welded on to the exterior wall to address a leak that had formed. The tank is over fifteen years old, and the interior should be sand blasted and re-coated with a minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1981 and supplies water to four blocks using a 2-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. There does not appear to be any blow-off points in the system. The system supplies water to single homes with mostly double service lines off the water main. Each home as its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

The distribution system map does not show any flush points in the system. A flush point should be installed on the north section of NE 25th Avenue. An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Eleven Oaks to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Eleven Oaks is: **$31,200.**

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$15,000
Mission Monitoring at Well	$10,000
Clear Vegetation	$2,000
Total	$28,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$3,400
Total	$3,400

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Eleven Oaks to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-5. The total cost estimate for Capital Improvements at Eleven Oaks is: **$74,000.**

Table 4-3: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$5,000
Replace Distribution Meter	$3,500
Total	$20,000

Table 4-4: Transmission and Distribution System Capital Improvements

Recommendation	Estimate
Recommendation	Estimate
Automatic Flushing Unit	$27,000
Install Blowoff Valve	$2,000
Total	$31,000

Table 4-5: General Plant Capital Improvements

Recommendation	Estimate
Install Blowoff Valve	$25,000
Total	$25,000

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

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

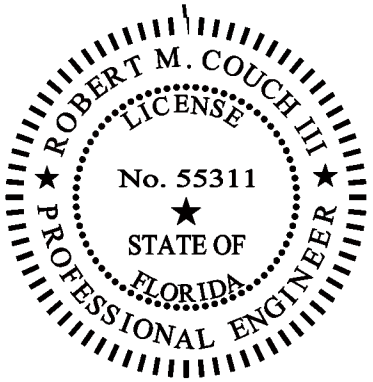
Eleven Oaks Subdivision Tank

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 +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: 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 (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 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.
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

Table of Contents

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.	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:

_____

☐ 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: 6/20/20

☒ **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

Viviana Penuela Useche
Printed Name

Environmental Specialist
Title

2-21-18
Date

Reviewer Signature

Christine Daniel
Printed Name

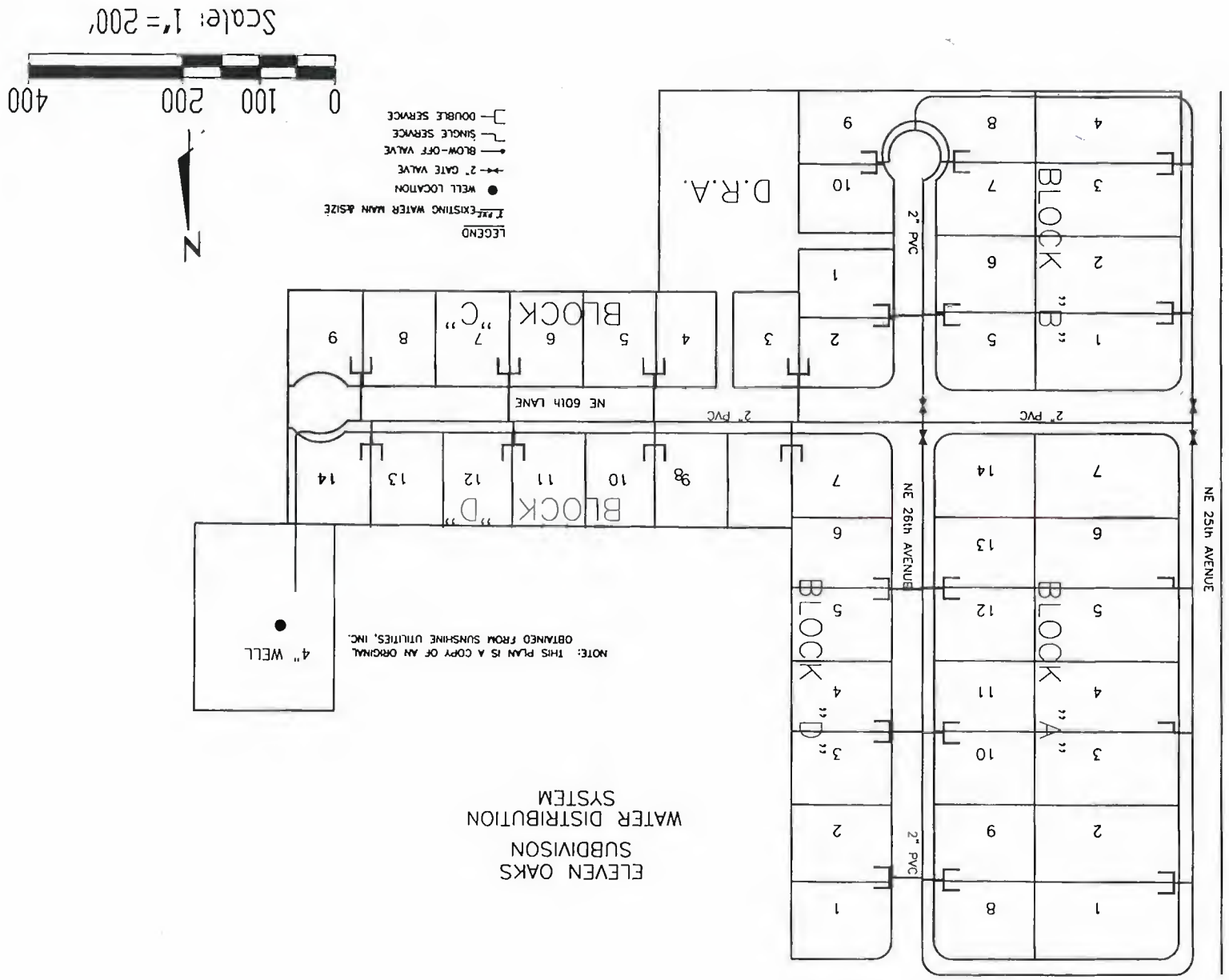
Environmental Manager
Title

3/1/18
Date

APPENDIX F: DISTRIBUTION MAP

ELEVEN OAKS

SUNSHINE INDUSTRIES INC.
OCALA, FLORIDA



H. W. BARRINEAU & ASSOCIATES, INC.
8100 SOUTHEAST 17TH ST. SUITE #08
OCALA, FLORIDA 34471
FAX (352) 840-0608
(352) 840-0774

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Emil-Mar. A summary of the main parameters for the water system are summarized below in Table 1-1.

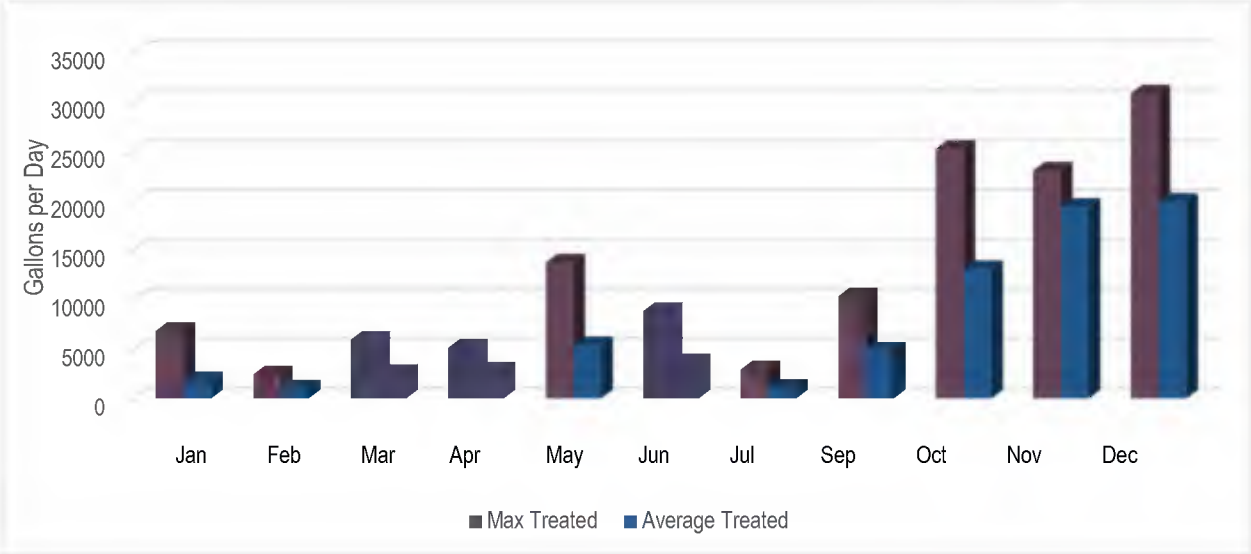
Table 1-1: Emil-Mar System Information

Water System Name	Emil-Mar
PWD ID Number	3420340
Classification	Community
Plant Category & Class	5D
Street Address	2199 NE 38th Street
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	255 (Sanitary Survey)
Number of Service Connections	73 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	6,840 GPD (2019 Monthly Reporting)
Maximum Day Water Use	30,800 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	72,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Emil-Mar community is depicted in Figure 1-1.

Figure 1-1: Emil-Mar Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 through a 2-inch Neptune flow meter and check valve into a 2,500-gallon steel hydropneumatic tank. The well pump turns on when the pressure in the tank is at 45 psi and turns off a 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 2-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	79 feet deep 62 GPM	1977 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	2,500 gallons, Steel	Approx. 1988 (Tank Inspection Report)	Fair

2.1.1 Source

The Emil-Mar well is located next to the tank within a locked fenced in area and is located roughly 20 feet from the NE 38th Street. Well 1 is shown in Figure 2-1. The well casing had buildup of rust on the exterior as shown in Figure 2-2. The top of the well casing is about 12 inches above grade and within a concrete pad. The well is 79 feet deep with a submersible Sta-Rite 62 GPM pump, 3 HP motor, and 230 Volts. There is a 2-inch Neptune meter at the well in good condition, shown in Figure 2-3.

There is a flapper valve that is used as an air vent and a sample tap off the top of the well. The well casing had corrosion on the shell and bolts, and the screen on the flapper vent was partially removed.

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

Figure 2-2: Well Casing Corrosion

Figure 2-3: Source Meter

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is 1:5 of 10.5% chlorine water and stored in two 55-gallon drums located outdoors, one drum is used for mixing the chlorine and one drum is used for storing and distribution, as shown in Figure 2-4. The chlorine pump is a diaphragm 15 GPD Chemtech,

set at 90% stroke. The average distribution residual in 2019 was 0.9 mg/L. The chlorine tank had a large amount of plant debris accumulated from overhead trees. The chemical metering pump at Emil-Mar is shown in Table 2-2.

The chlorine pump will turn on when the pump is energized, and the chemical pump outlet is wired to the well pump starter.

Table 2-2: Emil-Mar Chemical Metering Pump

Chemical Pump	Chlorine
Number of Pumps	1
Brand	Chem-Tech
Model	X015-XA-AAAFXXX
Size	15 GPD

Figure 2-4: Chemical Treatment

2.1.3 Storage

The Emil-Mar water treatment plant has a 2,500-gallon hydro pneumatic storage tank on-site as shown in Figure 2-5. The tank is plumbed with 2-inch isolation gate valves at the inlet and outlet of the tank with a 2-inch bypass line that is normally closed, and a drain gate valve located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup. During the inspection, the air release valve on the storage tank was leaking.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in December 2018 and stated that the tank shell, head, and exterior condition was in overall good condition and the interior of the tank appeared to be in fair condition. The tank interior had areas where the tank coating was beginning to fail and there was corrosion noted on the side walls of the tank interior. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-5: Storage Tank

2.1.4 Pump Station Building

The Emil-Mar treatment plant has no building on-site. The well, tank, and chemical treatment is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

2.1.5 Back-Up Power

There is no emergency generator onsite or a quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years, however Sunshine Utility's 2018 and 2017 Consumer Confidence reports did report more than one-half of the allowable limits of nitrates. Please refer to Appendix D for the 2019 Consumer Confidence Report.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 13, 2018 and stated that a check valve was leaking or not functioning properly, the deficiency was corrected on February 12, 2018 by replacing the check valve. Please refer to Appendix E for the Sanitary Survey Report. The plant received one violation in the past ten years related to Monitoring and Reporting in 2016.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The plant has no building or structure in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to construct a building onsite to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be needed for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Source of Supply

The screen on the vent should be replaced to prevent contamination.

2.3.3 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The air release valve on the hydropneumatic tank was leaking and should be replaced.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 55-gallon tanks for chlorine treatment. This container should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-6.

Figure 2-6: PIG 66-Gallon Tank Enclosure

The hydropneumatic tank inspection report noted the tank interior to be in fair condition, and that the tank had areas where the tank coating was beginning to fail and there was corrosion noted on the side walls of the tank interior. The tank is over fifteen years old, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1977 and supplies water to four blocks using a 2 to 4-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. There does not appear to be any blow-off points. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

The distribution system map does not show any flush points in the system. Flush points should be installed on the southern end of NE 22nd Court and on the southern end of NE 24th Court. An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Emil Mar to normal operating conditions are summarized with cost estimates in Table 4-1 through Table 4-3. The total cost estimate for Triage Repairs at Emil-Mar is: **$18,700.**

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$5,000
Mission Monitoring at Well	$10,000
Total	$16,000

Table 4-2: Source of Supply Triage Repairs

Recommendation	Estimate
Replace screen on vent, replace leaking air release valve	$1,000
Total	$1,000

Table 4-3: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Total	$1,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Emil Mar to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-4 through Table 4-7. The total cost estimate for Capital Improvements at Emil-Mar is: **$76,000.**

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$5,000
Total	$16,500

Table 4-5: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$3,500
Total	$3,500

Table 4-6: Transmission and Distribution System Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Install Blowoff Valves	$4,000
Total	$31,000

Table 4-7: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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

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

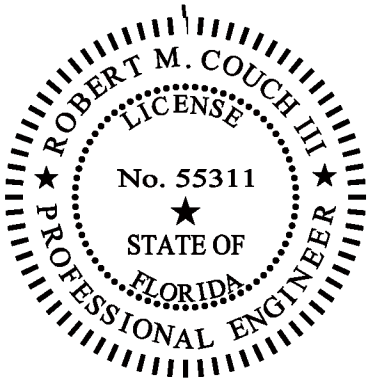
Emil-Marr Subdivision Tank

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



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 +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'-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 (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 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.

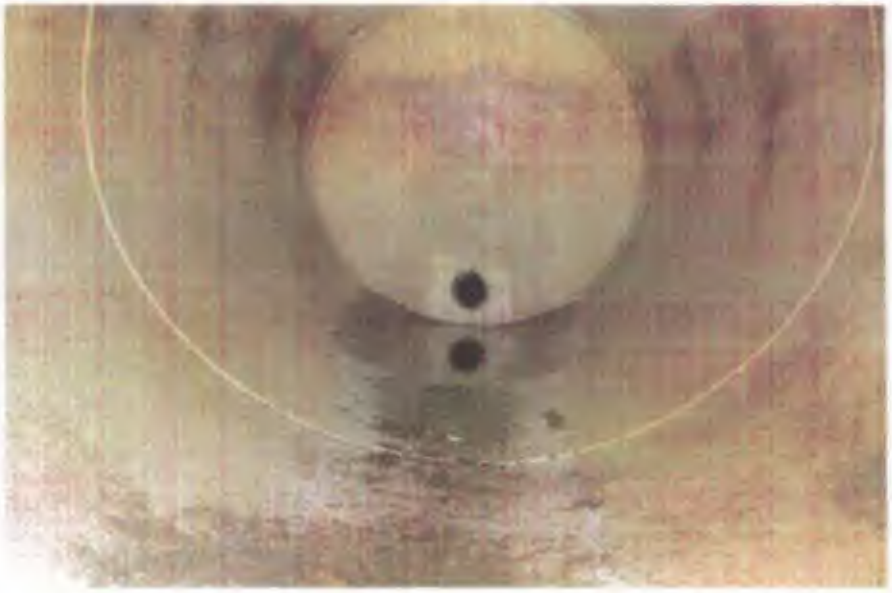
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating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

Table of Contents

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 Em I 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: 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:

_____

☐ 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*

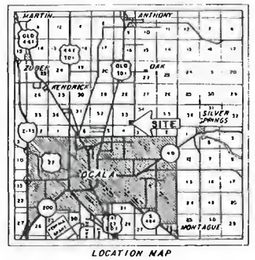
APPENDIX F: DISTRIBUTION MAP

EMIL - MARR

IN

SECTION 33, TOWNSHIP 14 SOUTH, RANGE 22 EAST

MARION COUNTY, FLORIDA



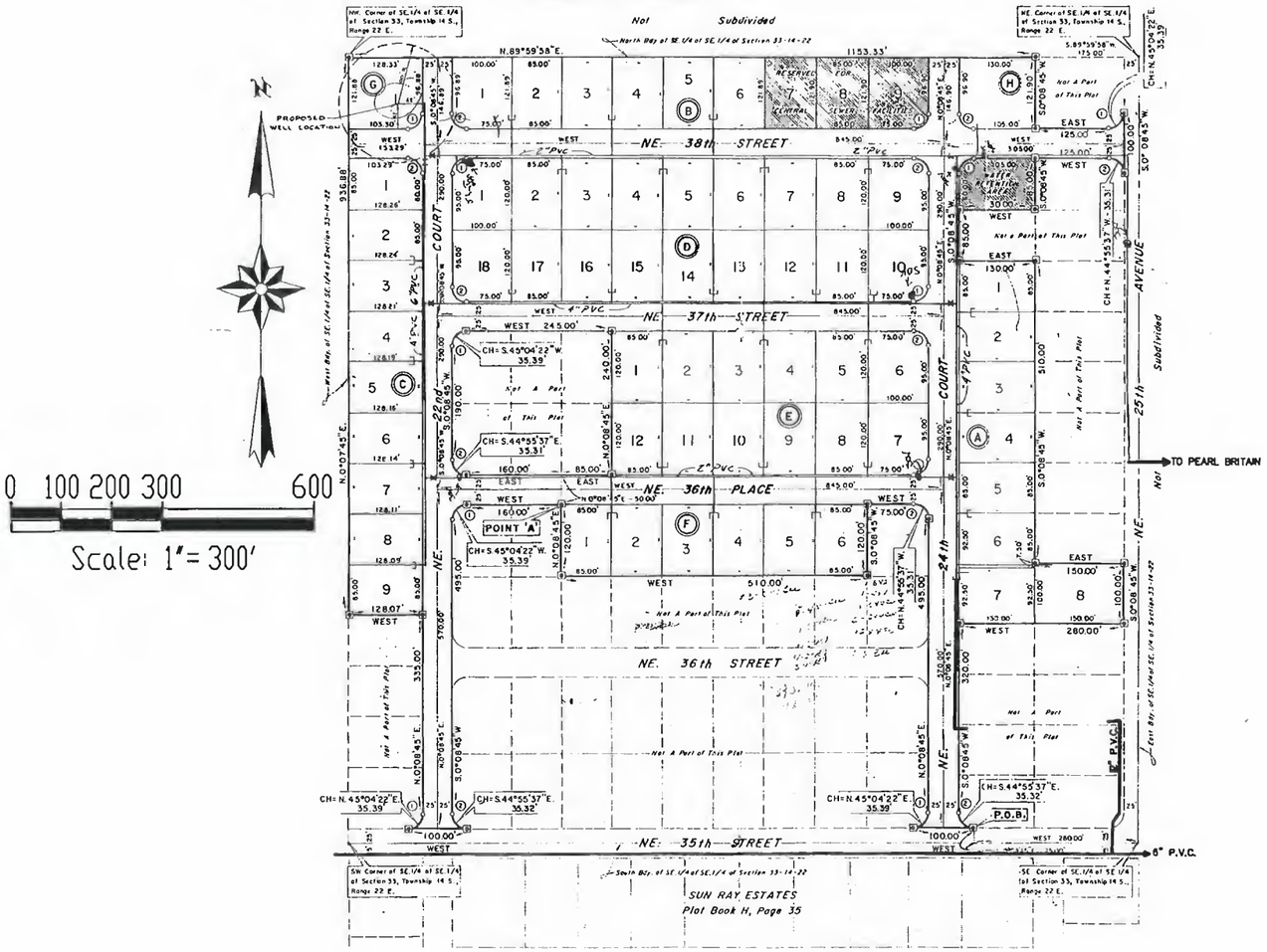
LOCATION MAP

GRAPHIC SCALE
SCALE 1"=100'

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°58'15"	25.06'	39.30'	25.00'	35.39'	N.45°04'22"E.
2	90°08'45"	24.94'	39.23'	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 202
OCALA, FLORIDA 34471
PH (352) 840-8588
(352) 840-8774

EMIL MARR
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

PROJECT NO. 96.36-02

1

Sheet 1 Of 1

WOODARD &CURRAN

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

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Florida Heights. A summary of the main parameters for the water system are summarized below in Table 1-1.

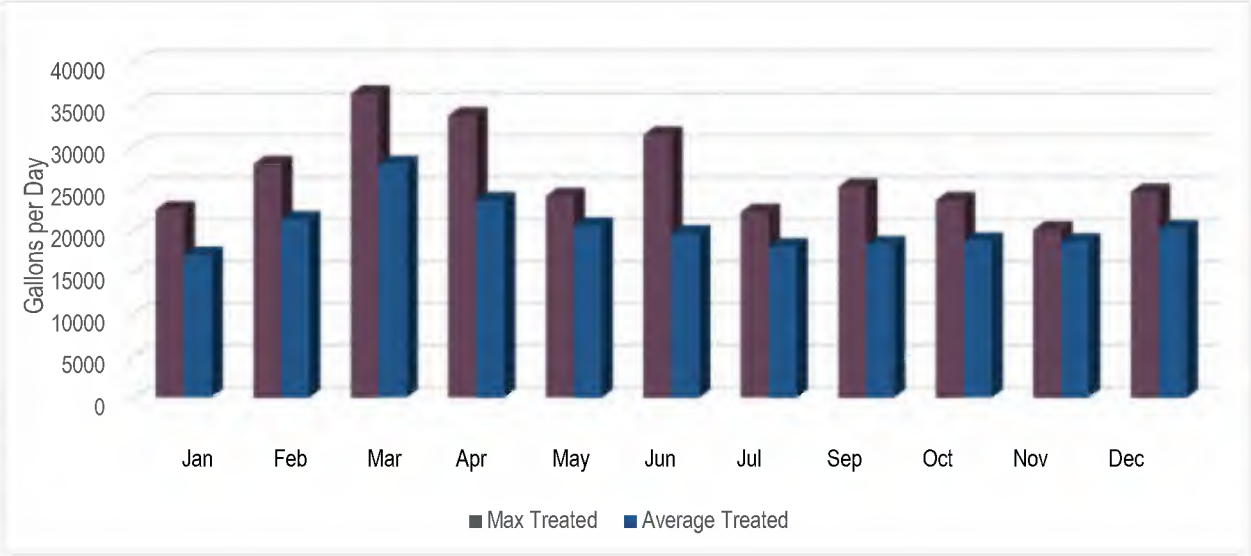
Table 1-1: Florida Heights System Information

Water System Name	Florida Heights Subdivision
PWD ID Number	3424031
Classification	Community
Plant Category & Class	5D
Street Address	6860 SE 53rd Place
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	346 (Sanitary Survey)
Number of Service Connections	99 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	20,284 GPD (2019 Monthly Reporting)
Maximum Day Water Use	36,200 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	144,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Florida Heights community is depicted in Figure 1-1.

Figure 1-1: Florida Heights Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two wells onsite: Well 1 and Well 2. Water from Well 1 is pumped through a 3-inch Sensus flow meter, 3-inch butterfly valve, 3-inch ball valve, and 4-inch gate valve before going into the 3,000-gallon steel hydropneumatic tank. Water is pumped from Well 2 through a 3-inch Master flow meter, 3-inch swing check valve, and 3-inch gate valve before going into the storage tank. Well 1 turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Well 2 will turn on as the lag pump to supplement flow as needed. Chlorine is injected for disinfection prior to entering the tank. There is a 4-inch line for flow from Well 1 to bypass the storage tank that is normally closed. Water exits the tank on the opposite side from where it enters and flows out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	146 feet deep, 100 GPM	1980 (Sanitary Survey)	Fair
Source	Well 2	146 feet deep, 100 GPM	1980 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	3,000 gallons, Steel	2016 (Tank Information Plate)	Fair
Building	CMU	6.7 by 7.4 feet	Unknown	Fair

2.1.1 Source

Well 1 is located within a locked fenced in area and is located roughly 2.5 feet from the pump station building and is shown in Figure 2-1. The top of the well casing is 12 inches above grade and within a concrete pad. The well is 146 feet deep. The Sanitary Survey states the well has a submersible Sta-Rite 100 GPM pump and 5 HP motor, however this may have been changed and not updated because the pump starter box notes a 7.5 HP motor. Well 1 acts as a "lead" well and supplies most of the water used in distribution. The well has sample tap off the top of the well, and a screened ¾-inch vent on the casing. There is a 3-inch Sensus meter after the well.

Figure 2-1: Well 1

Figure 2-2: Well 1 3/4 -Inch Screened Vent

Well 2 serves as the "lag" well and will only turn on if Well 1 cannot keep up with the water demand. Well 2 is located 10 feet from Well 1 and 5 feet from the hydropneumatic storage tank and is shown in Figure 2-3. The well casing is 12 inches above grade and within a concrete pad. The well is 146 feet deep. The Sanitary Survey states the well has a submersible Sta-Rite 100 GPM pump and 5 HP motor, however this may have been changed and not updated because the pump starter box notes a 10 HP motor. The well is equipped with a bleeder tee to allow air to charge the tank, and a flapper vent at the top of the well to allow excess air to be vented off. The flapper vent had no screen at the time of inspection, and the conduit for the well pump was not sealed and wires were exposed and unprotected from the environment. There is a 3-inch Master Meter after the well.

Figure 2-3: Well 2

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is 1:4 of 10.5% chlorine to water and is housed in two 55-gallon drums located indoors, one drum is used for diluting chlorine and one drum is used for chemical storage as shown in Figure 2-4. The chlorine is delivered through two diaphragm pumps. The chemical injection for Well 1 is supplied from a 30 GPD Unidose pump, set at 90% stroke. The chlorine for Well 2 is supplied by a 30 GPD Chemtech pump set at 90% stroke. The chemical metering pumps at Florida Heights Water System is shown in Table 2-2. The average distribution residual in 2019 was 1.2 mg/L.

The chlorine pumps will turn on when the well pump is energized, and the chemical pump outlets are wired to their respective well pump starter.

Table 2-2: Florida Heights Chemical Metering Pumps

Chemical Pump	Chlorine – Well #1	Chlorine – Well #2
Number of Pumps		
Brand	Uni-Dose	Chem-Tech
Model	U041-281TT	X030-XA-AAAXXX
Size	30 GPD	30 GPD

Figure 2-4: Chemical Treatment

2.1.3 Storage

The Florida Heights water treatment plant has a 3,000-gallon hydropneumatic storage tank onsite as shown in Figure 2-5. The tank is plumbed with 3-inch isolation gate valves at the inlet and a 4-inch isolation gate valve at outlet of the tank with a 4-inch bypass line that is normally closed, and a drain gate valve located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed.

According to FDEP, the storage tank at the Florida Heights water treatment plant ruptured on December 29, 2017, and the facility installed a new storage tank within the last 3 years. The storage tank currently on site has a plate stating that the tank was constructed in 2016 and installed in 2018. The storage tank has not received a five-year inspection yet, but one will be due in 2023.

Figure 2-5: Storage Tank

2.1.4 Pump Station Building

The pump station building is a 6.7 by 7.4-foot CMU building with a wooden roof, shown in Figure 2-6, primarily used for storage of the chlorine mixing tank, injection tanks, and facility logbook. The building has no door but has an opening with a width of 40 inches. The building had no evidence of roof leaks or rodents, but the open door provides no containment for spills or protection from weather, rodents, and insects. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

Figure 2-6: Pump Station Building

2.1.5 Back-Up Power

There is no emergency generator onsite or a quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix B for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix C for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 23, 2018 and noted no deficiencies during the inspection. Please refer to Appendix D for the Sanitary Survey Report. Additionally, no compliance issues or violations were observed in the Florida Department of Environmental Protection information portal in the last ten years.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-7), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-7: Electrical Panel and Wiring

2.3.2 Source of Supply

Well #1 has a 3-inch Sensus meter, and well #2 has a 3-inch Master meter. These meters should be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

Well #2 was not properly sealed to protect from bacteria contamination. The pump wires were exposed, and the vent had no screen, as shown in Figure 2-8. The pump wires should be sealed in a conduit and a vent screen should be added.

Figure 2-8: Well 2 Exposed Conduit Wire and Unscreened Vent

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 55-gallon drums for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical drums to a more compact 30-gallon drum and storing the chemicals on a containment pallet such as the PIG PAK604 Containment Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-9.

Figure 2-9: PIG 66-Gallon Containment Pallet

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1980 and supplies water using a 2 to 4-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed and one blowoff valve located on a dead end in the southwest corner. The system provides the community with potable water only (no fire flow water). Refer to Appendix E for a map of the water distribution system and Appendix G for As-Built plans.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter located behind each house. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Florida Heights to normal operating conditions are summarized with cost estimates in Table 4-1 through Table 4-3. The total cost estimate for Triage Repairs at Florida Heights is: **$63,000**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$50,000
Mission Monitoring at Well	$10,000
Total	$61,000

Table 4-2: Source of Supply Capital Improvements

Recommendation	Estimate
Replace screen on vent. Fix exposed well pump wire	$1,000
Total	$1,000

Table 4-3: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,000
Total	$1,000

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Florida Heights to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-4 through Table 4-7. The total cost estimate for Capital Improvements at Florida Heights is: **$77,500.**

Table 4-4: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Two Source Meters	$7,000
Total	$7,000

Table 4-5: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$7,000
Total	$18,500

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

Table 4-7: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Total	$27,000

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

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

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

Table of Contents

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: 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

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:

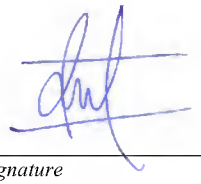
- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  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.]



Inspector Signature

Viviana Penuela Useche
Printed Name

Environmental Specialist
Title

2-21-18
Date

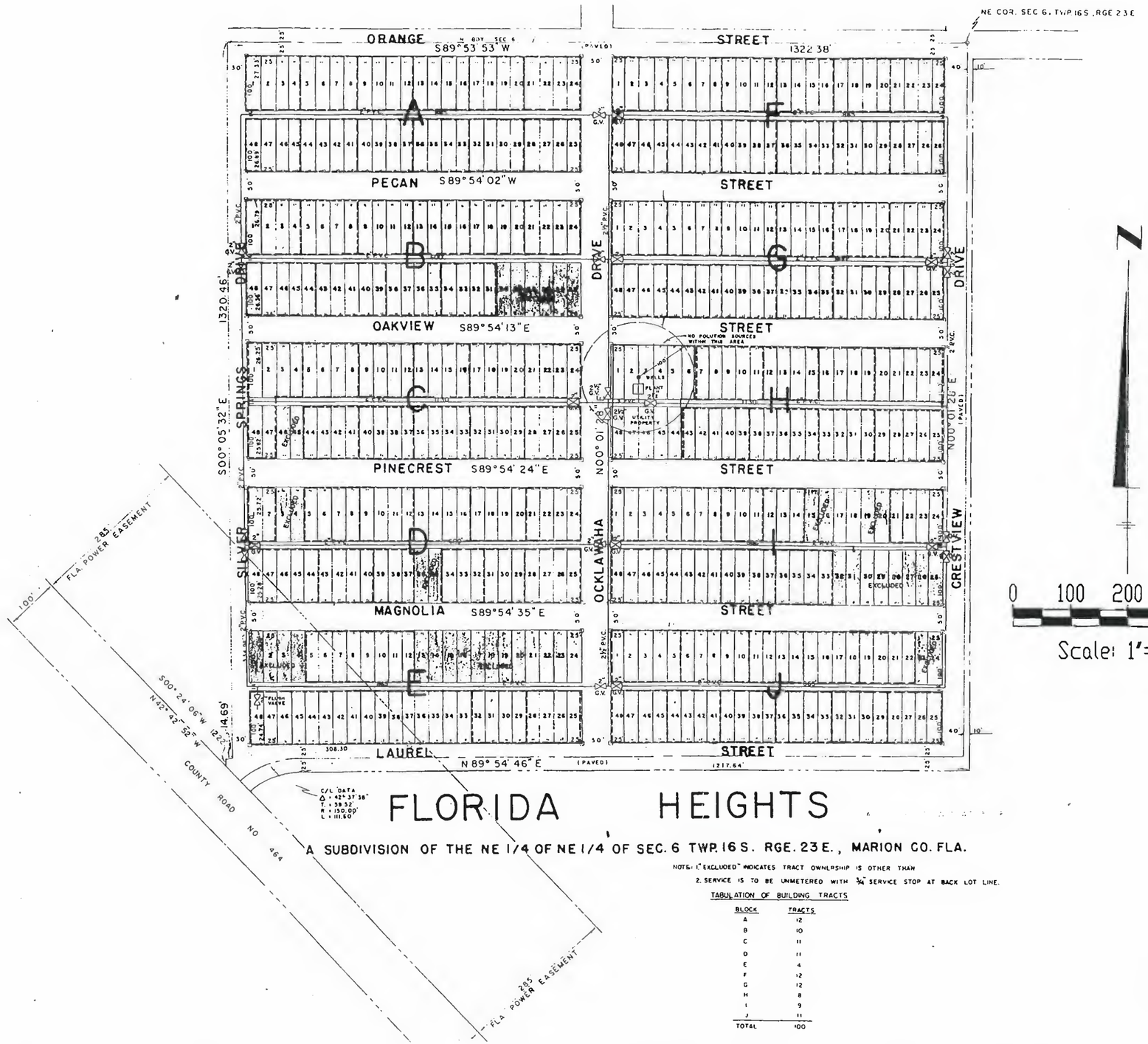
Reviewer Signature

Christine Daniel
Printed Name

Environmental Manager
Title

3/1/18
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 802 OCALA, FLORIDA 34471
PH (352) 840-9638 FAX (352) 840-9774

FLORIDA HEIGHTS
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	11 APR 97	HWB	PWM

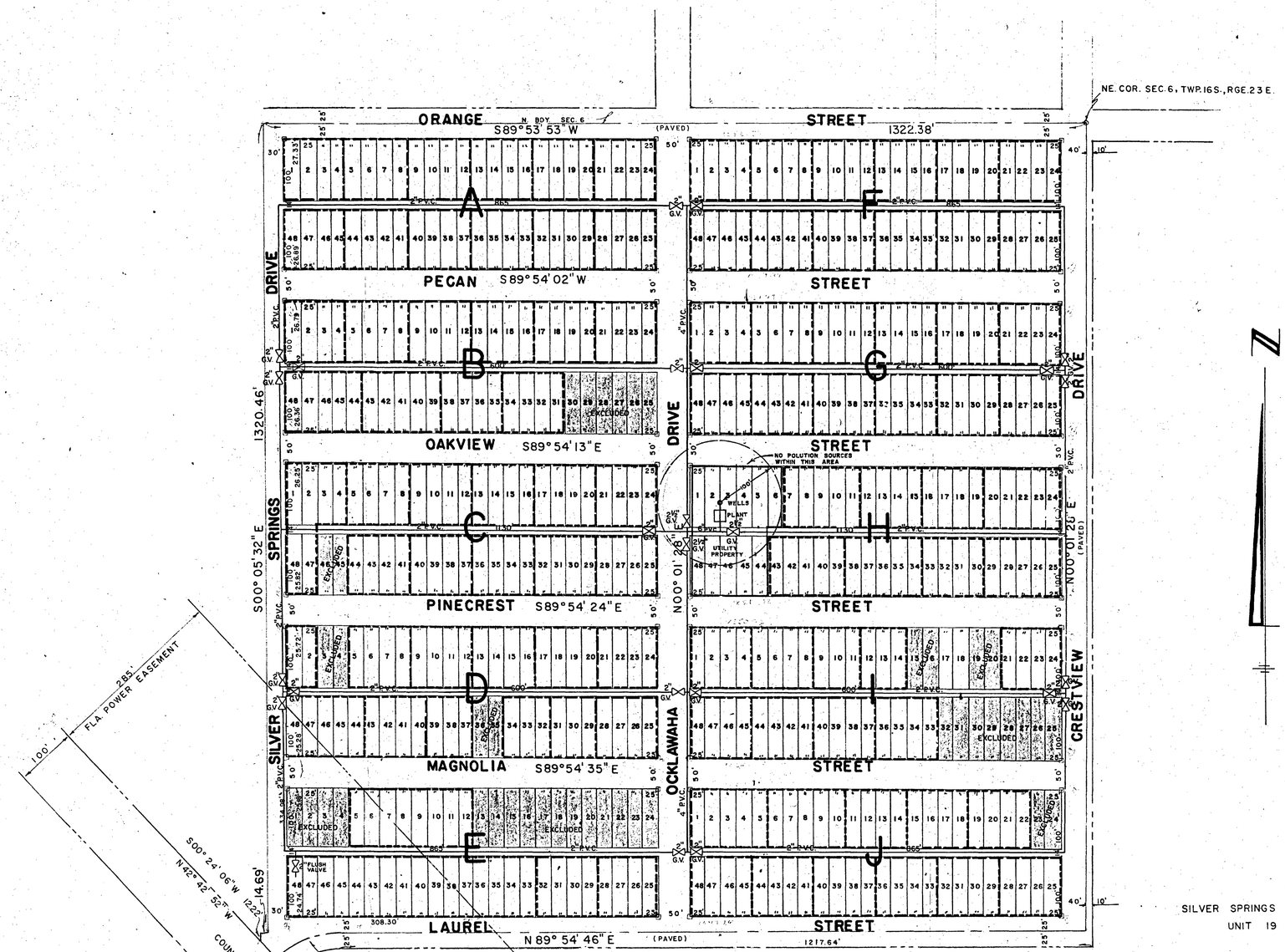
Project No. 9636-02

1

Sheet 1 Of 1

APPENDIX F: AS-BUILT PLANS

SILVER SPRINGS SHORES
UNIT 19



FLORIDA HEIGHTS

AS RECORDED IN PLAT BOOK B, PAGE 256, MARION COUNTY, FLORIDA

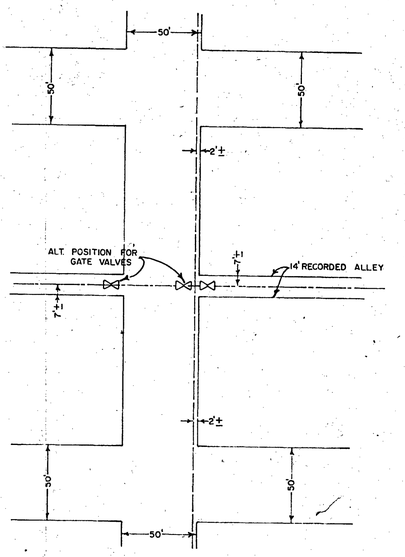
A SUBDIVISION OF THE NE 1/4 OF NE 1/4 OF SEC. 6 TWP. 16 S. RGE. 23 E., MARION CO. FLA.

NOTE: 1" EXCLUDED" INDICATES TRACT OWNERSHIP IS OTHER THAN
2. SERVICE IS TO BE UNMETERED WITH ¾" SERVICE STOP AT BACK LOT LINE.

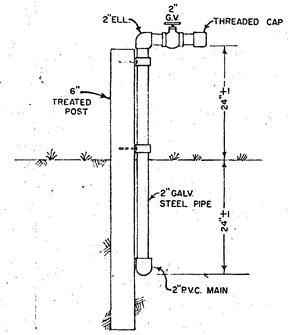
TABULATION OF BUILDING TRACTS

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



TYPICAL LOCATION DETAIL
(NOT TO SCALE)



TYPICAL FLUSH VALVE DETAIL
(NOT TO SCALE)

SILVER SPRINGS SHORES
UNIT 19

B.M. 4X4 CONC. MON.

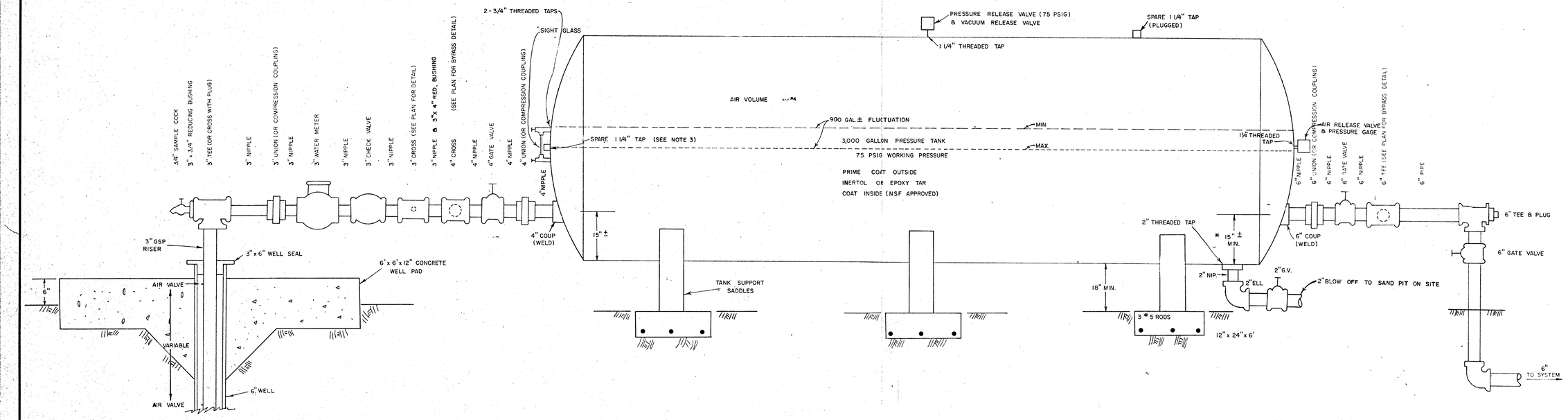
RECEIVED
JUN 1980
Saint Johns River Water Management District

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 198M



* 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.

NOTE: INSERT 3" GATE VALVE INTO PIPING AT THIS LOCATION

NOTE: SUPPORT OR BURY 4" BYPASS LINE

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

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Floyd Clark. A summary of the main parameters for the water system are summarized below in Table 1-1.

Table 1-1: Floyd Clark System Information

Water System Name	Floyd Clark
PWD ID Number	3420411
Classification	Community
Plant Category & Class	5D
Street Address	1441 NE 38th Street
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	251 (Sanitary Survey)
Number of Service Connections	72 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	18,547 GPD (2019 Monthly Reporting)
Maximum Day Water Use	26,400 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	68,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Floyd Cark community is depicted in Figure 1-1.

Figure 1-1: Floyd Clark Average Water Use 2019

Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 through a 2-inch Sensus flow meter and check valve into a 5,500-gallon steel hydropneumatic tank. The well pump turns on when the pressure in the tank is at 45 psi and turns off a 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 2-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and flows out to the distribution system. There are sample points off the top of the well, the storage tank, and prior to distribution.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	80 feet deep, 62 GPM	1974 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	5,500 gallons, Steel	Approx. 1983 (Tank Inspection Report)	Fair
Building	CMU	9.8 by 6.7 feet	Unknown	Fair

2.1.1 Source

The Floyd Clark well, shown in Figure 2-1, is located next to the tank within a locked fenced in area and is located roughly 20 feet from NE 38th Street. The well is about 5 inches above grade and within a concrete pad. The well is 80 feet deep with one submersible Sta-Rite 62 GPM pump, 5 HP motor, and 230 Volts. There is a vent and a sample tap off the top of the well shown in Figure 2-1, and a 2-inch Sensus meter after the well shown in Figure 2-2.

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

Figure 2-2: Well 1 Meter

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydro pneumatic tank. The chlorine is mixed 1:5 of 10.5% chlorine to water and is housed in two 55-gallon drums as shown in Figure 2-3. One drum is used for chemical storage and one drum is used for chemical mixing. The drums are located within the pump station building. The chlorine pump is a diaphragm 30 GPD Uni-dose, set at 90% stroke. The chemical metering pump at Floyd Clark is shown in Table 2-2. The average distribution residual in 2019 was 0.9 mg/L.

The chlorine pump will turn on when the well pump is energized, and the chemical pump outlet is wired to the well pump starter.

Table 2-2: Floyd Clark Chemical Metering Pump

Chemical Pump	Chlorine
Number of Pumps	1
Brand	Uni-Dose
Model	U041-2811TT
Size	30 GPD

Figure 2-3: Chemical Treatment

2.1.3 Storage

The Floyd Clark water treatment plant has a 5,500-gallon hydro pneumatic storage tank on-site as shown in Figure 2-4. The tank is plumbed with 2-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed, and a drain valve located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in December 2018 and stated that the exterior condition was in overall good condition and the interior of the tank appeared to be in fair condition. The tank interior had significant areas where the tank coating was beginning to fail and there was corrosion noted on the side walls of the tank interior. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-4: Storage Tank

2.1.4 Pump Station Building

The Floyd Clark treatment plant has a 9.8 by 6.7-foot CMU building with a wooden roof as shown in Figure 2-5. There is no door on the building and has an opening with a width of 4 feet. The building had holes along the bottom of the walls and a significant amount of insects and plant debris. The well, tank, and chemical treatment is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

Figure 2-5: Pump Station Building

2.1.5 Back-Up Power

There is no emergency generator onsite or a quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years, and no bacteria was detected during monthly bacteria samples during 2019. Please refer to Appendix D for the 2019 Consumer Confidence Report.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 23, 2018 and stated that a well casing vent was not properly screened, the deficiency was corrected on February 12, 2018 by replacing the screen. The plant received no violations in the last ten years. Please refer to Appendix E for the Sanitary Survey Report.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is a large tree growing next to the hydropneumatic tank and should be removed to prevent any damage from fallen branches.

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The building had holes along the bottom of the walls and a significant amount of insects and plant debris as well as general degradation from chlorine off gassing and weather over time. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-6), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-6: Rusted Pump Starter Panel

2.3.2 Source of Supply

The system has a 2-inch Sensus meter after the well. This meter should be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

There is no screen on the well vent and should be added to protect the well from contamination. See Figure 2-7.

Figure 2-7: Unscreened Well Vent

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 55-gallon drums for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by storing the chemicals on a pallet such as the PIG PAK 604 containment pallet with a 66-gallon containment capacity, and keep it stored in the pump station building. An example is shown in Figure 2-8.

Figure 2-8: PIG 66-Gallon Containment Pallet

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank inspection report noted the tank interior to be in fair condition, with significant areas where the coating had failed. Corrosion was also noted in the interior walls. The tank is over fifteen years old, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1974 and supplies water to six blocks using a 2 to 4-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed, and there does not appear to be any flushing points. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home as its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

A flushing point should be added at the end of NE 37th Street. An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Floyd Clark to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Floyd Clark is: **$54,000.**

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$40,000
Clear Vegetation	$2,000
Mission Monitoring at Well	$10,000
Total	$53,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,000
Total	$1,000

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Floyd Clark to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-6. The total cost estimate for Capital Improvements at Floyd Clark is: **$76,000.**

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$3,500
Total	$3,500

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$7,000
Total	$18,500

Table 4-5: Transmission and Distribution System Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Install Blowoff Valves	$2,000
Total	$29,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Replace Source Meter	$25,000
Total	$25,000

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

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

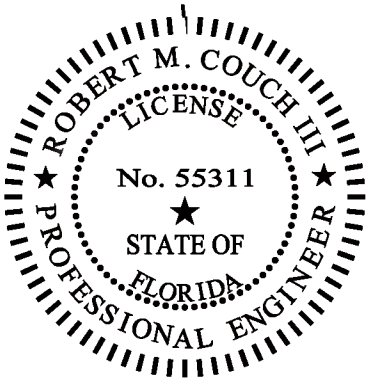
Floyd Clark Subdivision Tank

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 +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: 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 (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 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:

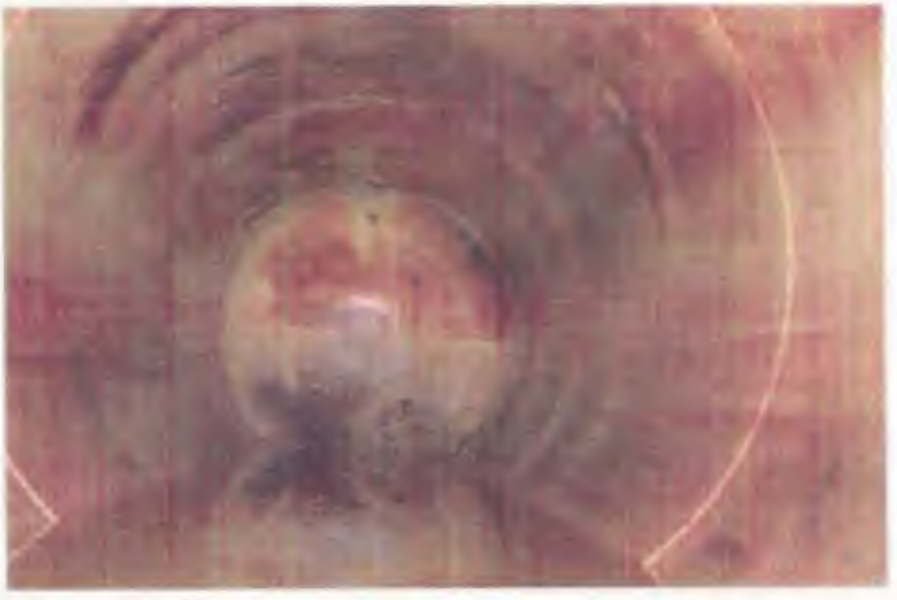
- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if 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
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	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:

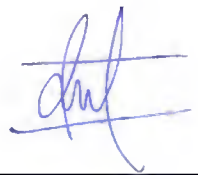
- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  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

Viviana Penuela Useche
Printed Name

Environmental Specialist
Title

2-21-18
Date

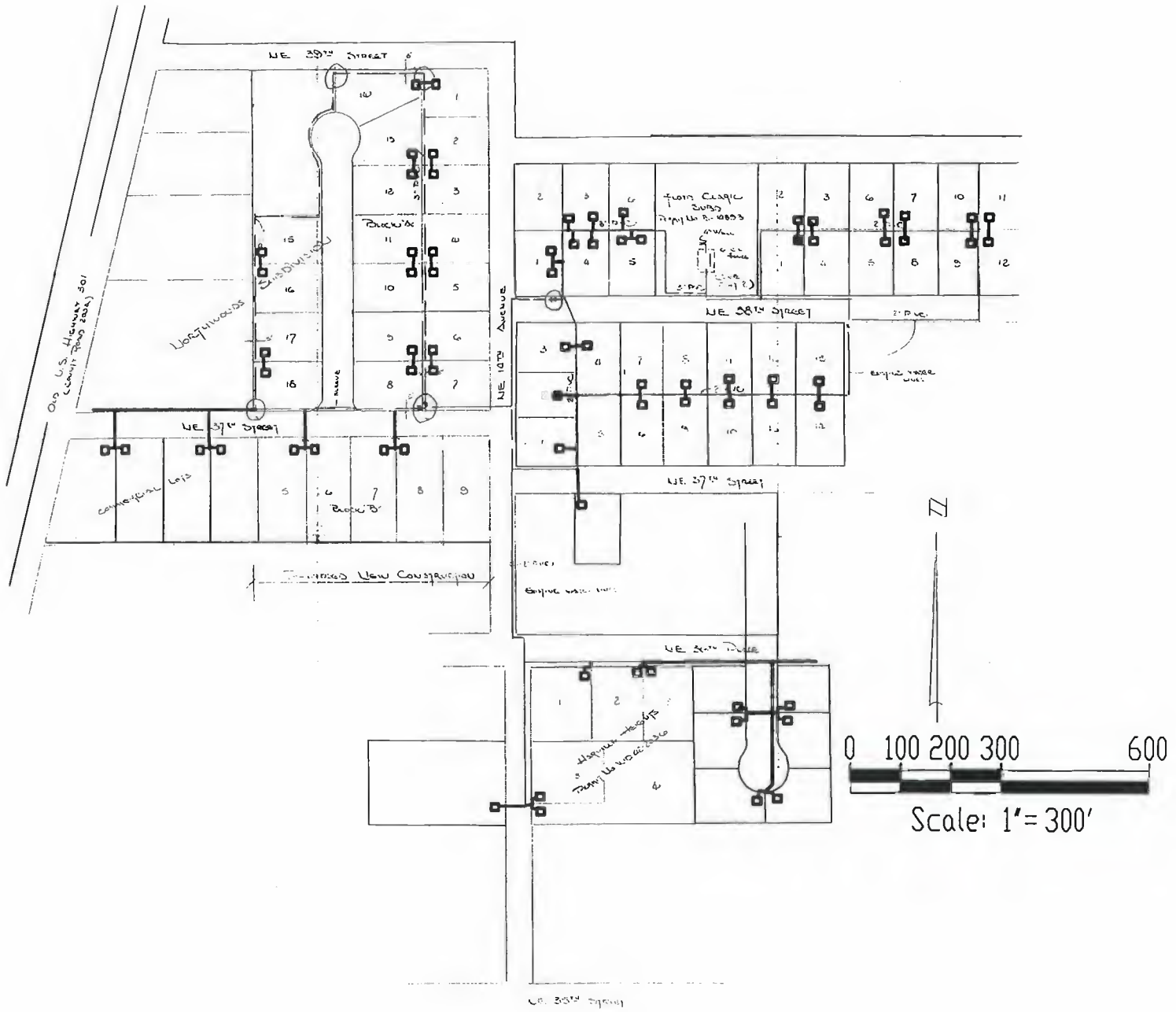
Reviewer Signature

Christine Daniel
Printed Name

Environmental Manager
Title

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.
2100 SOUTHEAST 17TH ST., SUITE 602 FAX (352) 840-0568
OCALA, FLORIDA 34471 (352) 840-0774

HODGES ~~NORTH~~

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

Fore Oaks Estates

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Fore Oaks Estates. A summary of the main parameters for the water system are summarized below in Table 1-1.

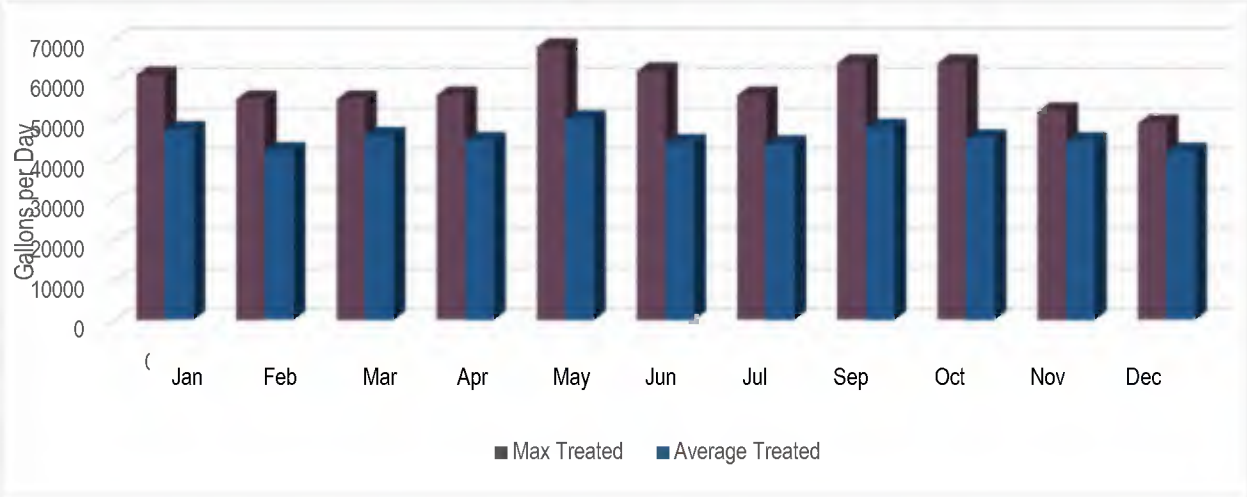
Table 1-1: Fore Oaks Estates System Information

Water System Name	Fore Oaks Estates
PWD ID Number	3424644
Classification	Community
Plant Category & Class	5C
Street Address	5148 NE 1st Avenue
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	793 (Sanitary Survey)
Number of Service Connections	227 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	45,243 GPD (2019 Monthly Reporting)
Maximum Day Water Use	68,000 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	421,200 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Fore Oaks community is depicted in Figure 1-1.

Figure 1-1: Fore Oaks Estates Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two wells onsite, Well 2 and Well 3. Water is pumped from Well 3 though a check valve, 4-inch Sensus flow meter, and an additional check valve with a swing arm. Water is pumped from Well 2 through a 2-inch Sensus flow meter and check valve and then joins with the flow from Well 3 before entering the 10,000-gallon steel hydropneumatic tank. The well turns on when the pressure in the tank is at 40 psi and turns off at 60 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 2	165 feet deep 225 GPM	1985 (Sanitary Survey)	Fair
Source	Well 3	165 feet deep, 330 GPM	1992 (Sanitary Survey)	Poor
Treatment	Disinfection	Sodium Hypochlorite	Unknown	Poor
Storage	Hydropneumatic Tank	10,000 gallons, Steel	Approx. 1989 (Tank Inspection Report)	Fair
Generator	Generac Generator	38 kW, 47.5 KVA	2015 (Info on Generator)	Good
Building	CMU	8 by 6 feet	Unknown	Fair

2.1.1 Source

Fore Oaks Well 2 is the lag well and is shown in Figure 2-1. The top of the well casing is about 6 inches above grade and within a concrete pad. FDEP requires the well to be a minimum of 12 inches high but will accept the current height as is unless there are any new issues with microbial contamination. The well is 165 feet deep with a submersible Sta-rite 225 GPM pump, 10 HP motor, single phase. Well 2 has a flapper valve with a screen that is used as the air vent, and a sample tap off the top. There is a 2-inch Sensus meter after Well 2, shown in Figure 2-2. It is located within a locked fenced in area, as shown in Figure 2-3, and is about 40 feet from NE 1st Ave.

Figure 2-1: Well 2

Figure 2-2: Well 2 Meter

Figure 2-3: Well 2 Fenced Area

Fore Oaks Well 3 is the lead well and is shown in Figure 2-4. The top of the well casing is about 14 inches off the ground and within a concrete pad. The well is 165 feet deep with a submersible Sta-Rite 330 GPM pump, 20 HP motor, single phase. Well 3 has a flapper valve with a screen on a sample tap that is used as the air vent, and an additional sample tap off the top. There is a capped pipe off the side for the purpose of introducing shock chlorination if needed. Well 3 has a 4-inch Sensus Meter, shown in Figure 2-5. It is located with a locked fenced in area, as shown in Figure 2-6, and is about 30 feet from NE 1st Ave.

At the time of the inspection, the tap that is used as a vent was closed, causing the tank to become waterlogged, and the well pump was starting and stopping frequently.

Figure 2-4: Well 3

Figure 2-5: Well 3 Meter

Figure 2-6: Well 3 Fenced Area

The Fore Oaks Well 1 is an abandoned well, but the top of the well casing is still onsite as shown in Figure 2-7. Sunshine Utilities did not know if the well was plugged by filling them bottom to top with grout as required by FL Administrative Code 40D-3.531.

Figure 2-7: Abandoned Well 1

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydro pneumatic tank. The chlorine strength is 10.5% and mixed 1:4 chlorine-water. The chlorine mix is housed in a 35-gallon and a 55-gallon drums located inside the

pump station building as shown in Figure 2-8. One drum is used for storing pure chlorine and the second drum is used for mixing the chlorine and chemical treatment. The chemical pump for Well #2 is a diaphragm 24 GPD Uni-Dose Pump, set at 100% stroke. There is an additional chemical treatment Uni-dose diaphragm pump for lag-well #2, but it had no tubing and was not connected to an outlet. The average distribution residual in 2019 was 0.8 mg/L.

The chlorine pump will turn on when Well #3 pump is energized. The well #3 chemical pump outlet is wired to the Well pump #3 starter.

Table 2-2: Fore Oaks Chemical Metering Pumps

Chemical Pump	Well #2	Well #3
Number of Pumps	1	1
Brand	Uni-Dose	Uni-Dose
Model	UD001-238NU	UD001-238NU
Size	24 GPD	24 GPD

Figure 2-8: Chlorine Treatment

2.1.3 Storage

The Fore Oaks Estates water treatment plant has a 10,000-gallon hydro pneumatic storage tank on-site. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed, and a tank drain located underneath the tank. There were several leak repairs with sleeves on the bypass line, as shown in Figure 2-9. The operating set points for the tank are to turn on the well at 40 psi and turn off at 60 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup. During the inspection, the tank was waterlogged and had a ball valve on sight tube that was leaking.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in December 2018 and stated that the tank exterior appeared to be in good structural condition. The interior coating was in fair condition but there were

significant areas where the coating had begun to fail and surface corrosion was noted in various areas throughout the tank interior. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-9: Leak Repairs on Bypass Piping

2.1.4 Pump Station Building

The pump station building is an 8 by 6 feet CMU building with a wooden roof, as shown in Figure 2-10, primarily used for storage of the chlorine mixing tank, injection tank, and facility logbook. The building has no door but has an opening with a width of 4 feet. The building had no evidence of roof leaks or rodents, but the open door provides no containment for spills or protection from weather, rodents, and insects. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite.

Figure 2-10: Pump Station Building and Storage Tank

2.1.5 Back-Up Power

The Fore Oaks plant has a 38 kW Generac Generator unit onsite, as shown in Figure 2-11, to power the well pumps and treatment if there is an interruption in power supply. The generator is automatically exercised one hour per week, and the site is equipped with an automatic transfer switch. The generator runs on propane and is supplied by two 120-gallon propane tanks. At the time of the inspection, one tank was at 80% capacity and the other was at 60% capacity. The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

Figure 2-11: Back-up Power Generator

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 23, 2018 and stated that no deficiencies were noted during the inspection. According to the Florida Department of Environmental Protection's database, the Fore Oaks plant received two violations for disinfection by-product monitoring and reporting in November of 2020.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-12), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-12: Rusted Electrical Panel

2.3.2 Source of Supply

A sample tap on Well #3 is being used as a vent. At the time of the inspection, the sample tap was found to be closed, causing issues with the operation of the well. The tap was opened but should be replaced to prevent the issue from reoccurring.

The system has a 2-inch Sensus meter after Well 2 and a 4-inch Sensus meter after Well 3. This meter should be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

2.3.3 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there is a 35-gallon and a 55-gallon drums for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by replacing both chemical drums with 30-gallon tanks and storing the on a containment pallet such as the PIG PAK 604 containment pallet with a 66-gallon containment capacity, and keep it stored in the pump station building. An example is shown in Figure 2-13.

Figure 2-13: PIG 66-Gallon Containment Pallet

The ball valve located on the pressure tank sight tube is leaking and should be replaced during the next tank inspection or sooner if the leak becomes worse.

The hydropneumatic tank inspection report noted the tank interior to be in fair condition, with significant areas where the coating had failed. Corrosion was also noted in various areas of the interior. The tank is over fifteen years old, and the interior should be sand blasted and re-coated with a minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in the 1985 and supplies water using a 2 to 6-inch PVC water main in a loop configuration with blowoff valves on dead ends. The loop has gate valves to isolate sections if needed located at most roadway intersections and blow-off points on many of the system dead ends. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Fore Oaks to normal operating conditions are summarized with cost estimates in Table 4-1 through Table 4-3. The total cost estimate for Triage Repairs at Fore Oaks is: **$32,000**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$20,000
Mission Monitoring at Well	$10,000
Total	$31,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,000
Total	$1,000

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Fore Oaks to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Table 4-3 trough Table 4-6. The total cost estimate for Capital Improvements at Fore Oaks is: **$79,500**.

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Well 2 and Well 3 Source Meter	$8,000
Total	$8,000

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$8,000
Total	$19,500

Table 4-5: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27 000
Total	$27,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25 000
Total	$25,000

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

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

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

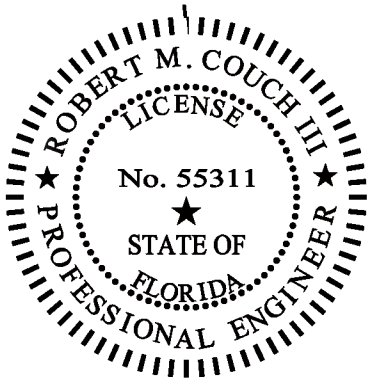
Fore Oaks Estates Tank

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 +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: 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 (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 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:

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" 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 deposi
Selenium	(ppb)	JUN'18	No	0.6	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural
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 deposi

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.]

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

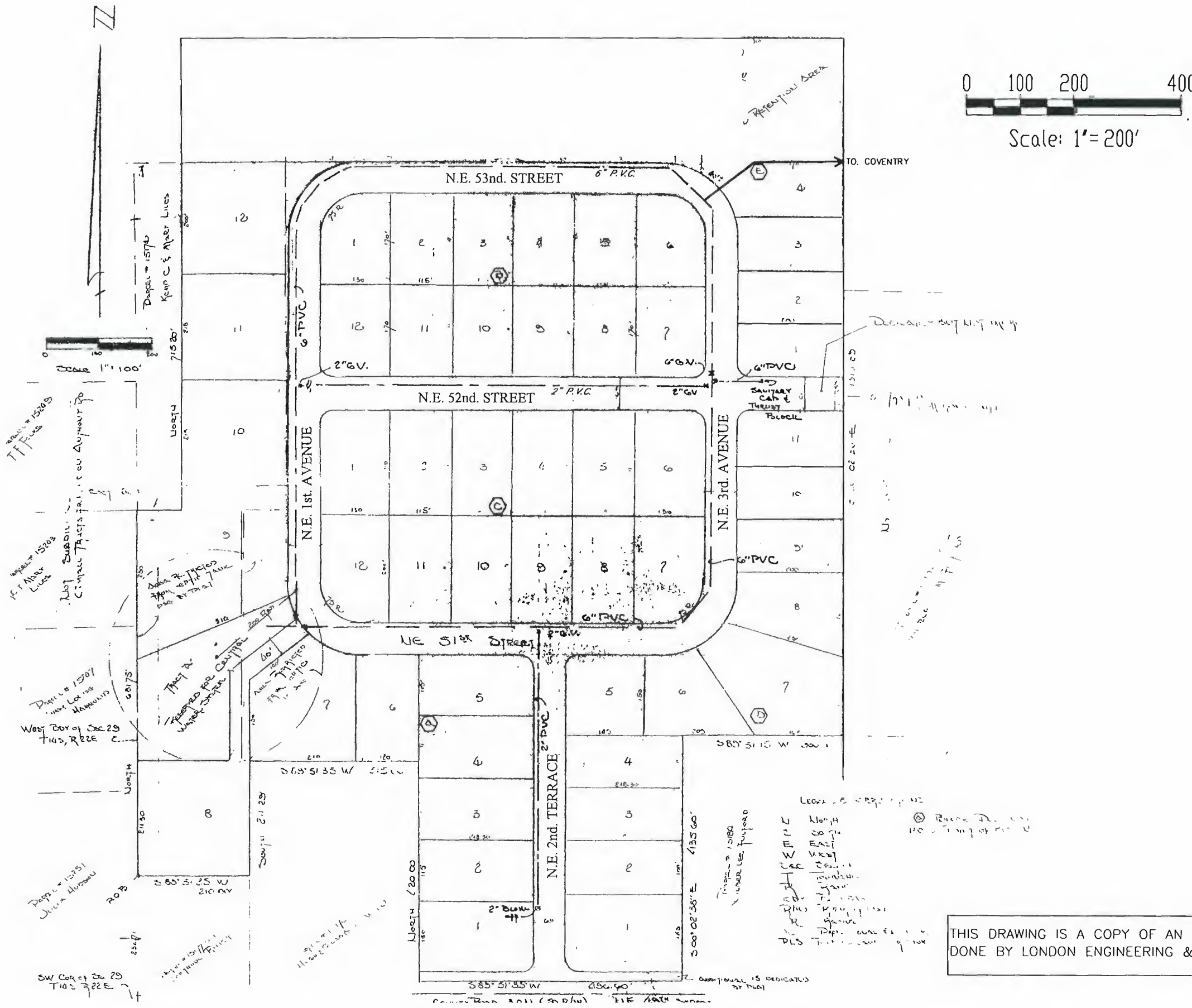
Reviewer Signature

Christine Daniel
Printed Name

Environmental Manager
Title

3/1/18

APPENDIX F: DISTRIBUTION MAP



H.W. BARRINEAU & ASSOCIATES, INC.
3100 SOUTHEAST 17TH ST, SUITE 808 OCALA, FLORIDA 34471
TEL (352) 840-8588 FAX (352) 840-8774

FORE OAKS

SUNSHINE UTILITIES, INC.

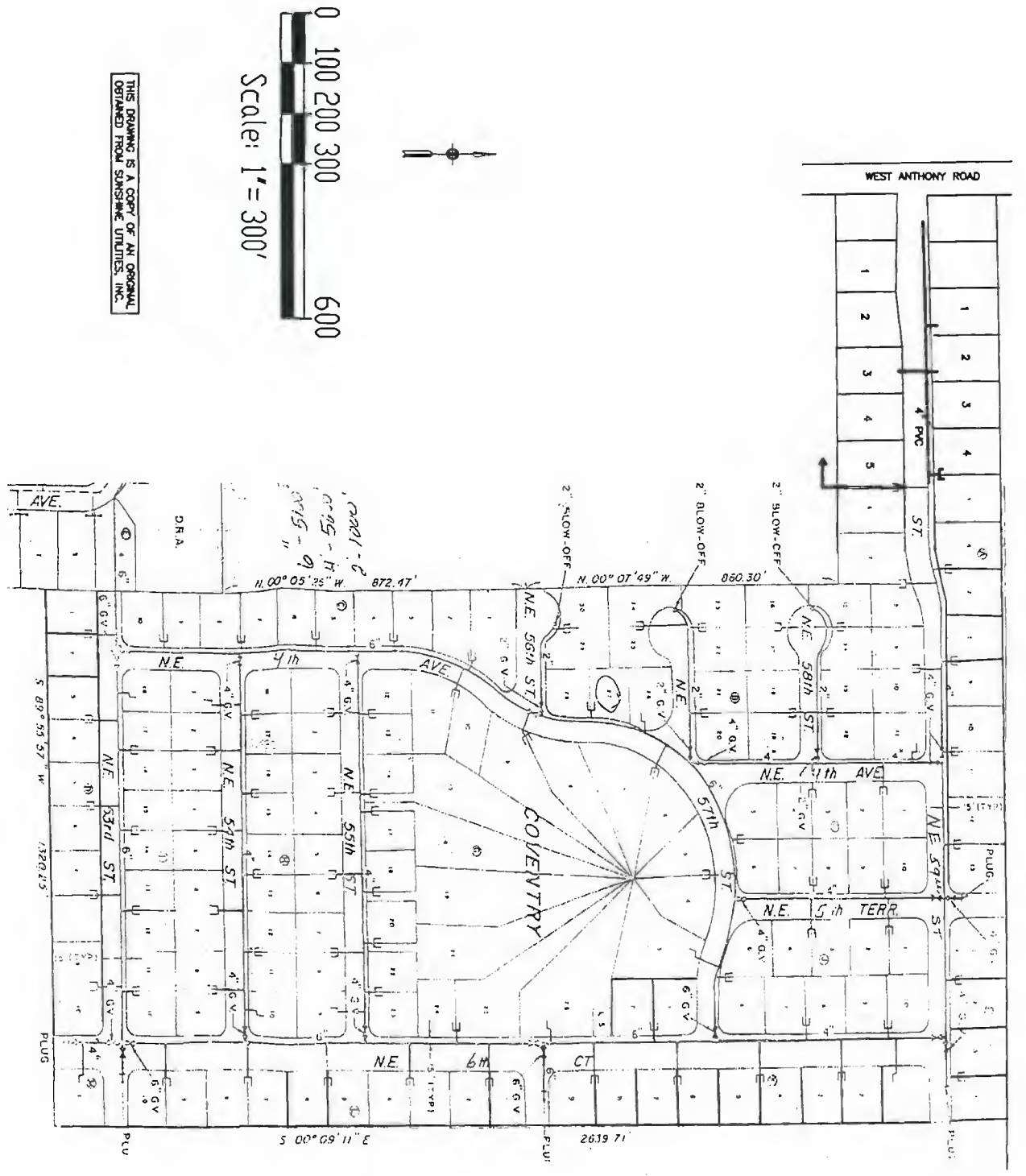
MARION COUNTY, FLORIDA

DRN	CHK	DATE	DESCRIPTION
CEL	WAB	23 FEB 00	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1



DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9638-02

Sheet 1 OF 1

COVENTRY

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

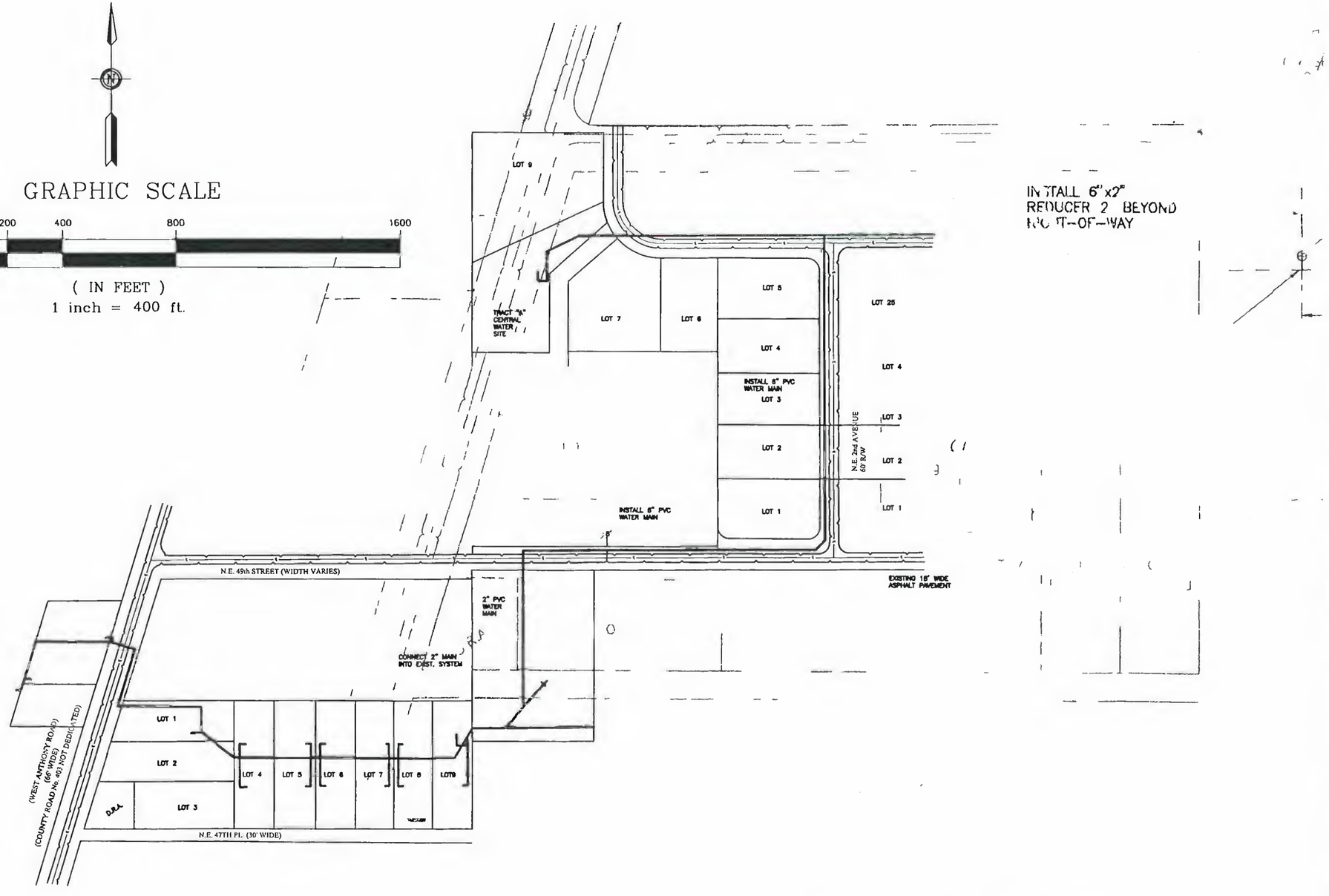
H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 602
OCALA, FLORIDA 34471
FAX (352) 840-9526
(352) 840-9774

GRAPHIC SCALE

400 0 200 400 800 1600

(IN FEET)

1 inch = 400 ft.



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H. W. BARRINEAU & ASSOCIATES, INC.
3700 SOUTHEAST 17th ST. SUITE 603 OCALA, FLORIDA 34471
TEL (352) 840-8600 (352) 840-8774

BALLARD ACRES

SUNSHINE UTILITIES INC.

OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HMB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Hilltop at Lake Weir Subdivision

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Hilltop at Lake Weir. A summary of the main parameters for the water system are summarized below in Table 1-1.

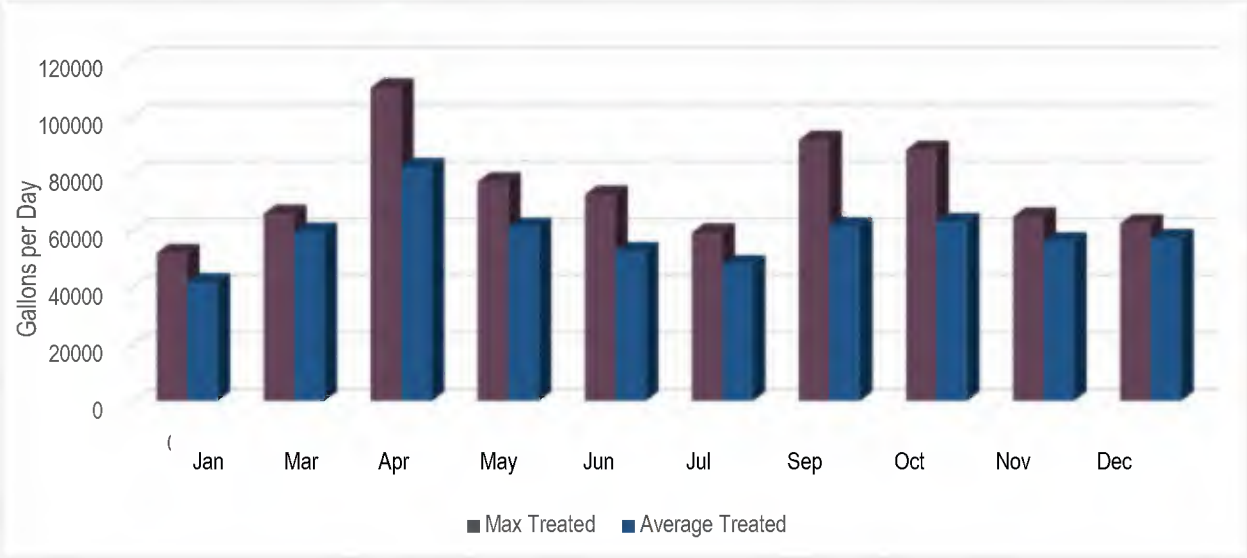
Table 1-1: Hilltop at Lake Weir System Information

Water System Name	Hilltop at Lake Weir
PWD ID Number	3424662
Classification	Community
Plant Category & Class	5C
Street Address	SE 125th Place and CR 25
City, State	Belleview, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	448 (Sanitary Survey)
Number of Service Connections	179 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	58,057 GPD (2019 Monthly Reporting)
Maximum Day Water Use	109,900 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	313,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Hilltop community is depicted in Figure 1-1.

Figure 1-1: Hilltop at Lake Weir Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two water wells onsite, Well 1 and Well 2. Water from Well 1 is pumped through a check valve, ball valve, and flow meter. Water is pumped from Well 2 through a flow meter, check valve and ball valve and then joins with water from Well 1 before entering the 10,000-gallon steel hydropneumatic tank. The well pump turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 4-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side and flows through a 4-inch flow meter and out to distribution.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	224 feet deep, 190 GPM	1984 (Sanitary Survey)	Fair
Source	Well 2	210 feet deep, 245 GPM	2005 (Sanitary Survey)	Fair
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	10,000 gallons, Steel	Unknown	Fair
Generator	Generac Generator	45 kW, 56 kVA	2005 (Info on Generator)	Good
Building	CMU	11.3 by 7.3 feet	Unknown	Poor

2.1.1 Source

Hilltop at Lake Weir Well 1, shown in Figure 2-1, is located next to the tank within a locked fenced in area and is located roughly 2.5 feet from the pump station building. The well is 8 inches off the ground and within a concrete pad. The well is 224 feet deep with a submersible Sta-Rite 190 GPM pump and 15 HP motor. Well 1 acts as a "lag" well and runs whenever more water is needed than Well 2 can supply.

Figure 2-1: Well 1

Hilltop at Lake Weir Well 2, shown in Figure 2-2, is located 50 feet from the road and 20 feet from the hydropneumatic tank. The well is about 14 inches off the ground and within a concrete pad. The well is 210 feet deep with a submersible Grunfos 245 GPM pump and 15 HP motor. The well is equipped with a vent at the top of the well, sample tap, check valve, and a 3-inch Sensus meter. Well 2 serves as the "lead" well and supplies most of the water used in distribution.

Figure 2-2: Well 2

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine used is 10.5% strength and is pumped straight. The chlorine is housed in two 50-gallon drums located in the pump station building as shown in Figure 2-3. The chlorine is delivered through two diaphragm 0.5 GPH Unidose pumps, set at 30% stroke for Well 1 and 100% stroke for Well 2. The chemical metering pumps at the plant are shown in Table 2-2. The average distribution residual in 2019 was 1.1 mg/L.

The chlorine pump will turn on when the pump is energized, and the chemical pump outlet is wired to each of the well pump starters.

Table 2-2: Hilltop at Lake Weir Chemical Metering Pumps

Chemical Pump	Chlorine – Well #1	Chlorine – Well #2
Number of Pumps	1	
Brand	Uni-Dose	Uni-Dose
Model	U021-281TT	U021-281TT
Size	0.5 GPH	0.5 GPH

Figure 2-3: Chemical Treatment

2.1.3 Storage

The Hilltop at Lake Weir water treatment plant has a 10,000-gallon hydropneumatic storage tank onsite as shown in Figure 2-4. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed, and a drain gate valve located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in January 2019 and stated that the tank interior and exterior appeared to be in fair condition. The report also stated that the tank interior had areas where the tank coating was beginning to fail and there was corrosion noted on the tank interior surface. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-4: Storage Tank

2.1.4 Pump Station Building

The pump station building is an 11-foot 4-inch by 7-foot 4-inch CMU building with a wooden roof primarily used for storage of the chlorine mixing tank, injection tanks, and facility logbook. The building has no door but has an opening with a width of 40 inches. The building had no evidence of roof leaks or rodents, but the open door provides no containment for spills or protection from weather, rodents, and insects. The base of the building is degrading, an example is shown in Figure 2-5. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

Figure 2-5: Building Condition

2.1.5 Back-Up Power

The plant has a 45 kW Generac Generator unit onsite, as shown in Figure 2-6, to power the well pumps if there is an interruption in power supply. The site is equipped with an automatic transfer switch, but the generator is not exercised on a regular interval. The generator runs on propane and is supplied by a 250-gallon storage tank. The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

Figure 2-6: Generator and Pump Station Building

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on March 30, 2020 and noted no deficiencies during the inspection. The plant received no violations within the last ten years. Please refer to Appendix E for the Sanitary Survey Report.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time and the building base is degrading. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be necessary for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Source of Supply

The system has a two 3-inch meters after each well. The meters should be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 50-gallon drums for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical drums to have more compact 30-gallon tanks and storing the chemicals on a pallet such as the PIG PAK 604 containment pallet with a 66-gallon containment capacity, and keep it stored in the pump station building. An example is shown in Figure 2-7.

Figure 2-7: PIG 66-Gallon Containment Pallet

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank inspection report noted the tank interior to be in fair condition, had minor areas where the tank coating was beginning to fail and there was corrosion noted on the side walls of the tank interior. The tank is likely over fifteen years old, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1984 and supplies water using a 4 to 6-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed and one blowoff valve located on a dead end. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Hilltop at Lake Weir to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Hilltop at Lake Weir is: **$32,000**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$20,000
Mission Monitoring at Well	$10,000
Total	$31,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,000
Total	$1,000

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Hilltop at Lake Weir to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Table 4-3 through Table 4-6. The total cost estimate for Capital Improvements at Hilltop at Lake Weir is: **$78,500**.

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Two Source Meters	$7 000
Total	$7,000

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$8,000
Total	$19,500

Table 4-5: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Total	$27,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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

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

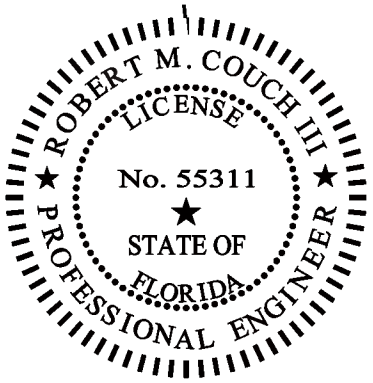
Hilltop at Lake Weir Tank

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 +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: 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 (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 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.
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For more information or additional copies of this document contact:

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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		
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:

_____

☐ 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

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 (ug/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

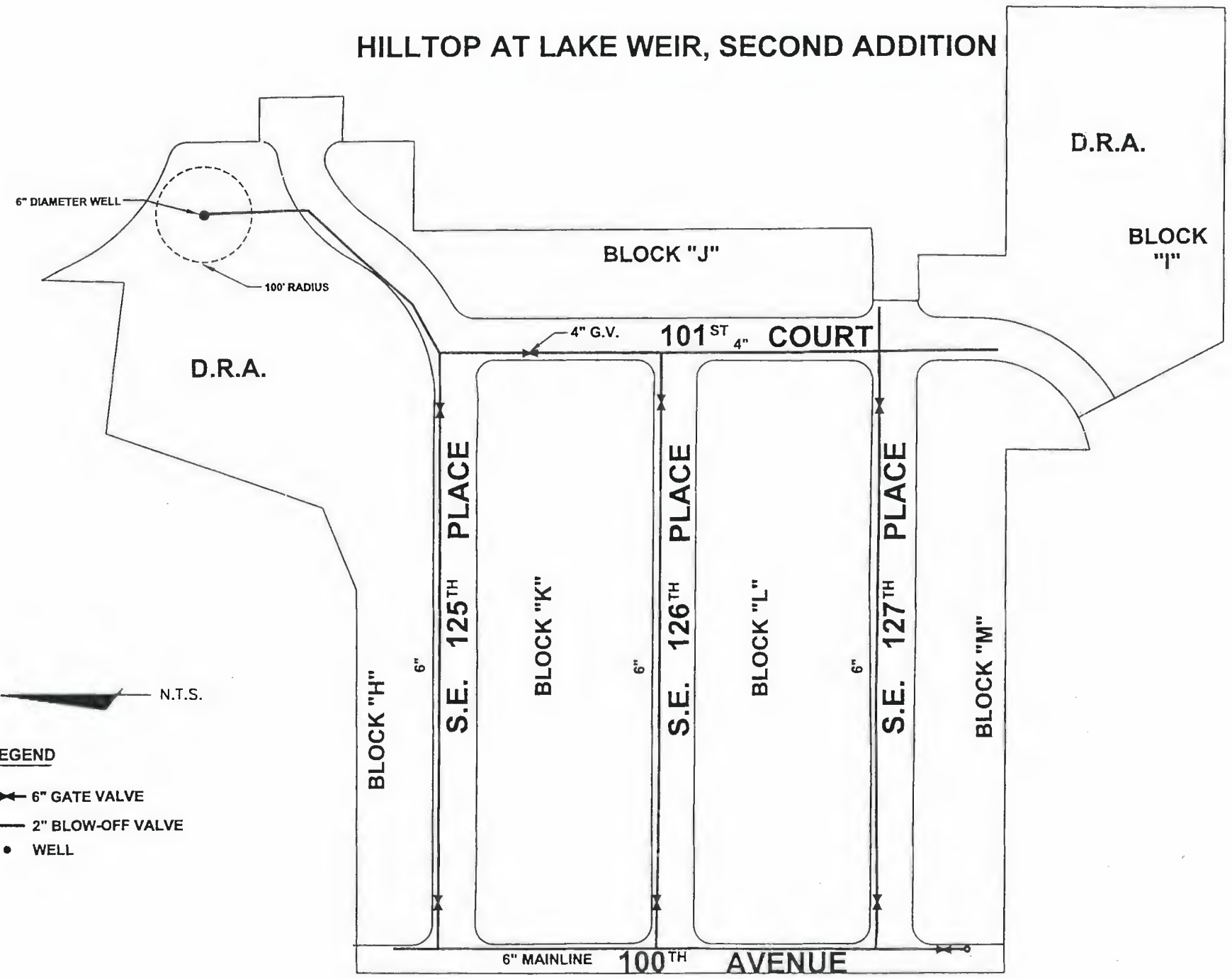
Reviewer Signature

Jill Farris
Printed Name

Environmental Manager
Title

4/16/20
Date

APPENDIX F: DISTRIBUTION MAP



H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST. SUITE 802 OCALA, FLORIDA 34471
FAX (352) 840-2588
(352) 840-9774

FACILITY WATER SYSTEM

HILLTOP AT LAKE WEIR
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	14 JUL 99	RJW	SAD

Project No. 9636-02

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Little Lake Weir Subdivision

WOODARD &CURRAN

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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FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Little Lake Weir. A summary of the main parameters for the water system are summarized below in Table 1-1.

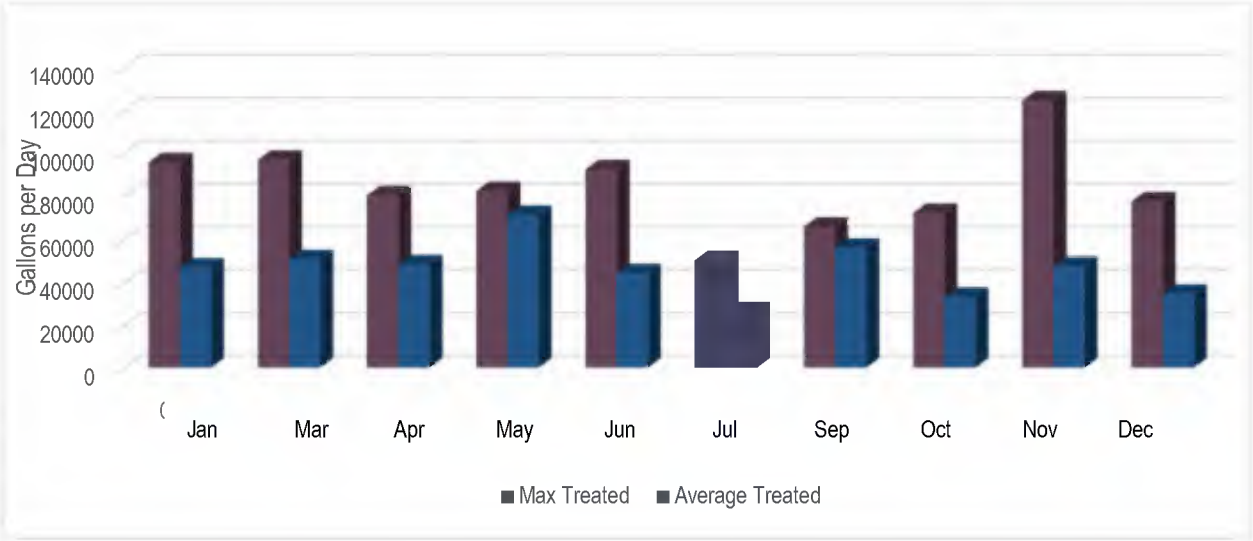
Table 1-1: Little Lake Weir System Information

Water System Name	Little Lake Weir Subdivision
PWD ID Number	3420761
Classification	Community
Plant Category & Class	5D
Street Address	9003 SE 144th Lane
City, State	Summerfield, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	963 (Sanitary Survey)
Number of Service Connections	385 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	45,536 GPD (2019 Monthly Reporting)
Maximum Day Water Use	124,300 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	106,560 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Little Lake Weir community is depicted in Figure 1-1.

Figure 1-1: Little Lake Weir Average Water Use 2019



Source: 2019 Monthly Operating Reports. Monthly Operating Report missing from 02/2019 and 08/2019

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two water wells onsite, Well 1 and Well 2. Water is pumped from Well 1 through a 2-inch Master flow meter and a check valve. Water is pumped from Well 2 through a check valve and a 2-inch Sensus flow meter before going through a 2-inch butterfly valve and a 4-inch gate valve before meeting up with the flow from Well 1 and entering the 5,000-gallon steel hydropneumatic storage tank. The well turns on when the pressure at the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 4-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and goes out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	250 feet deep. 75 GPM	Unknown	Poor
Source	Well 2	170 feet deep, 73 GPM	1980 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	5,000 gallons, Steel	Approx. 1992 (Tank Inspection Report)	Fair
Generator	Kohler Generator	38 kW, 47.5 KVA	Unknown	Fair
Building	Wood	9 by 4 feet	Unknown	Poor

2.1.1 Source

Well 1 is located within a locked fenced in area and is shown in Figure 2-1. The well is one foot from the pump station building and one foot from a roof over generator. The top of the well casing is 12 inches above grade and within a concrete pad. The well is 250 feet deep with a submersible Sta-rite 75 GPM pump with a 5 HP motor. Well 1 has two sample taps, one tap is used as an air vent after a check valve and the second sample tap is used for sampling. Well 1 has a 2-inch Sensus meter. Well 1 acts as the "lag" well, so it only supplies water if the community water demands is greater than what Well 2 can provide.

Figure 2-1: Well 1

Well 2 is the lead well and located with a small locked fenced in area. The well is 170-feet deep with a submersible 73 GPM pump with a 5 HP motor. Well 2 has a two sample taps, typically one sample tap is equipped with a check valve and used as an air vent for the well, but both sample taps had no check valve so the well effectively had no vent. Well 2 has a 2-inch Master Meter. The well and piping has no coating and has signs of rust and corrosion. Well 2 acts as the lead well, so it supplies most of the community water demands.

The top of the well casing is 2 inches above grade and within a concrete pad. FDEP requires the well to be 12-inches off the ground but will accept the current height unless there is evidence of microbial contamination.

Figure 2-2: Well 2

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine strength is 10.5%, is not diluted, and is stored in two 35-gallon drums located outside. There are two chemical pumps, one for each well, however the chemical pump for well #1 was not plugged into an outlet at the time of inspection. The well #1 chemical pump is a diaphragm 15 GPD Chem-Tech Pump, set at 50% stroke, and the well #2 chemical pump is a 24 GPD Uni-dose diaphragm pump set at 25% stroke. The average distribution residual in 2019 was 0.3 mg/L.

The chlorine pumps will turn on when the pumps are energized. Each chemical pump outlet is wired to the well pump starter.

Table 2-2: Little Lake Weir Chemical Metering Pumps

Chemical Pump	Chlorine – Well #1	Chlorine – Well #2
Number of Pumps	1	1
Brand	Chem Tech	Uni Dose
Model	Not legible	UD001-238NU
Size	Not legible	1.0 GPH

Figure 2-3: Chlorine Treatment

2.1.3 Storage

The water treatment plant has a 10,000-gallon hydro pneumatic storage tank on-site, shown in Figure 2-4. The tank is plumbed with 4-inch isolation gate valves at the inlet and outlet of the tank with a 4-inch bypass line that is normally closed, and a tank drain located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference, and the pressure recorded during the site inspection was 62 psi. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed. The tank was waterlogged at the time of inspection.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in April 2019 and stated that the tank exterior appeared to be in good structural condition. The interior coating was in fair condition with only slight surface corrosion noted along the tank ridge. Please refer to Appendix B for the 2019 Tank Inspection Report.

Figure 2-4: Storage Tank

2.1.4 Pump Station Building

The pump station building is a 9-foot by 4-foot wood building with a wooden roof primarily used for storage of the facility logbook and control panels. The building has a door that opens out with a width of 3 feet. The building has holes that could allow water or insects to enter the building and what appeared to be some water damage on the interior walls. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite.

Figure 2-5: Pump Station Building

Figure 2-6 Pump Station Building Interior

2.1.5 Back-Up Power

The Little Lake Weir plant has a 15 kW Guardian Generator unit onsite to power the well pumps if there is an interruption in power supply. The generator is not exercised on a periodic basis, and the site is equipped with an automatic transfer switch. The generator runs on propane and is supplied by a 120-gallon propane tank. The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

Figure 2-7: Back-up Power Generator

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 9, 2020 and noted two deficiencies in the report. The deficiencies were related to biogrowth on the drainpipe of the tank and missing monthly operation reports for February and August of 2019. Sunshine corrected the deficiencies on January 9, 2020 for the biogrowth and January 14, 2020 for the missing reports. According to the Florida Department of Environmental Protection's database, the Little Lake Weir plant received four violations for disinfectants and disinfection byproducts monitoring and reporting in December and March of 2017 but was returned to compliance in December of 2017.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is poor lighting at the site. It is recommended flood lights be installed to allow the site to be safely accessed at night.

The wooden building has holes that could allow water or insects to enter the building and what appeared to be some water damage on the interior walls. It is recommended that the building be upgraded to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Components

From the site visit and visual of the electrical components, replacement may be needed for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

The generator on site is old and will likely be due for replacement. Standby power is required at this site per Florida Administrative Code 62-555.320 (14) (a).

2.3.2 Source of Supply

On Well #1 there is a sample tap attached to a check valve that is functioning as a vent. The sample tap should be removed to prevent it from accidently being closed, and a screen should be installed.

There is no vent on Well #2, which likely caused the hydropneumatic tank to become waterlogged. A screened vent should be installed on the well.

There is a 2-inch Sensus meter on Well #1 and a 2-inch Master meter on Well #2. These meters should be replaced with meters that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 35-gallon drums for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-8.

Figure 2-8: PIG 66-Gallon Tank Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank inspection report noted the tank interior to be in fair condition, had minor areas where the tank coating was beginning to fail and there was corrosion noted on the side walls of the tank interior. The tank is over fifteen years old, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1980 and supplies water using a 2-inch PVC water main in a loop configuration with blowoff valves on dead ends. The loop has gate valves to isolate sections if needed located at most roadway intersections. There are seven blow-off valves in the distribution map. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Little Lake Weir to normal operating conditions are summarized with cost estimates in Tables 4-1 and 4-2. The total cost estimate for Triage Repairs at Little Lake Weir is: **$32,700**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$20,000
Mission Monitoring at Well	$10,000
Total	$31,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Total	$1,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Little Lake Weir to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-6. The total cost estimate for Capital Improvements at Little Lake Weir is: **$112,500**.

Table 4-3: General Plant Capital Improvements

Recommendation	Estimate
Generator Replacement	$35,000
Building and Site Repairs	$25,000
Total	$60,000

Table 4-4: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Two Source Meters	$7,000
Total	$7,000

Table 4-5: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Interior Tank Coating	$7,000
Total	$18,500

Table 4-6: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27 000
Total	$27,000

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

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

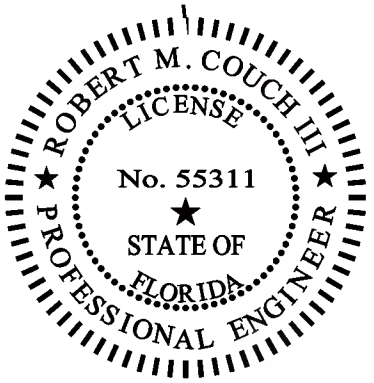
Little Lake Weir Subdivision Tank

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 +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: 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 (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 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.
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

Table of Contents

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	(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. Litt e 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: _____

☐ 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

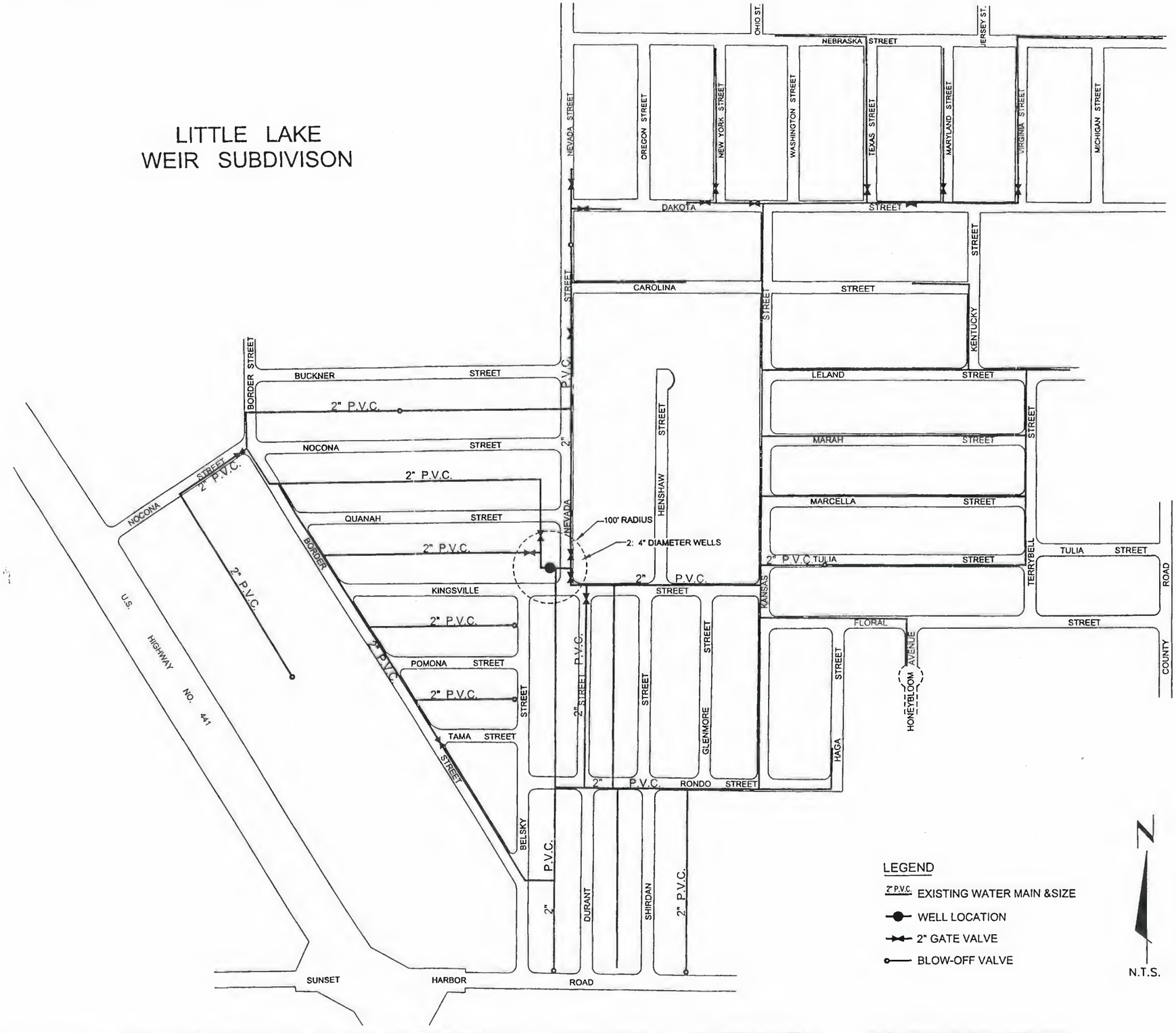
Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

- 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.]

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



H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST. SUITE 802 OCALA, FLORIDA 34471
PHX (352) 840-9568
(352) 840-9774

FACILITY WATER SYSTEM
LITTLE LAKE WEIR SUBDIVISION
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRN	CHK	DATE	DESCRIPTION
SAO	RJW	14 JUL 99	ORIGINAL ISSUE

Project No. 9636-02

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Oak Haven Quadruplexes. A summary of the main parameters for the water system are summarized below in Table 1-1.

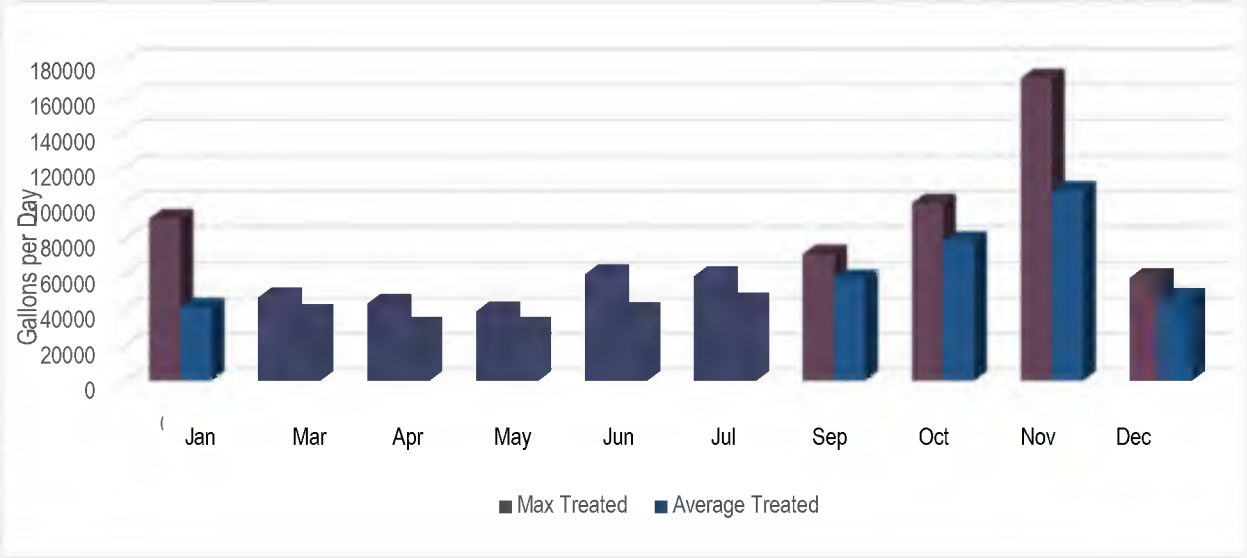
Table 1-1: Oak Haven System Information

Water System Name	Oak Haven Quadruplexes
PWD ID Number	3424106
Classification	Community
Plant Category & Class	5C
Street Address	4224 NW 21st Avenue
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	103 (Sanitary Survey)
Number of Service Connections	41 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	51,212 GPD (2019 Monthly Reporting)
Maximum Day Water Use	170,200 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	288,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

The Oak Haven Water System uses a very high amount of water for the system size. The system representative offered an explanation that there are two complexes that each have multiple quads in each. Each complex has their own master meter. The system representative did not know the population of the complexes, or if the listed population was inaccurate. Potable water usage in the Oak Haven community is depicted in Figure 1-1.

Figure 1-1: Oak Haven Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 through a check valve and a 3-inch Master Meter flow meter into a 5,000-gallon steel hydropneumatic tank. The well turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine and phosphate are injected for disinfection and metal sequestration, respectively, prior to entering the tank. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and flows out to two separate distribution pipelines. The plant also has 4 blowoff valves and two system shutoff valves for the two discharge pipelines.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	285 feet deep, 400 GPM	1982 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Treatment	Corrosion Control	Aqua Gold	Unknown	Poor
Storage	Hydropneumatic Tank	5,000 gallons, Steel	Approx. 2008 (Tank Inspection Report)	Fair

2.1.1 Source

Oak Haven Well 1, shown in Figure 2-1, is located next to the tank within a locked fenced in area and is located 10 feet from the road. The well is 10 inches off the ground and within a concrete pad. The well is 285 feet deep with a submersible Sta-Rite 400 GPM pump and a 30 HP motor at 230 Volts. There is a bleeder vent that is used as the air vent, and a sample tap off the top. The well casing appeared to have some rusting on casing and was missing a screen on the air vent. The well has a 3-inch Master meter, shown in Figure 2-2.

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

Figure 2-2: Source Meter

2.1.2 Treatment

Chlorine and poly phosphate are injected for the purpose of disinfection and corrosion control, respectively, prior to the hydropneumatic tank, shown in Figure 2-3. The chlorine strength is 10.5% and is not diluted. The poly phosphate chemical brand is Aqua Gold, and it is stored in a 30-gallon drum. There are five 30-gallon drums of poly phosphate onsite. The Chlorine is stored in a 300-gallon tank. Both chemical treatment storage tanks are located outdoors. The chlorine pump is a diaphragm 30 GPD Unidose, set at 80% stroke. The phosphate pump is a peristaltic 17 GPD Stenner set at 30% stroke. The chemical metering pumps at the plant are shown in Table 2-2. The average distribution residual in 2019 was 3.0 mg/L.

The chlorine and phosphate pumps will turn on when the pump is energized. The chemical pump outlets are wired to the well pump starter.

Table 2-2: Oak Haven Chemical Metering Pumps

Chemical Pump	Chlorine	Poly Phosphate
Brand	Uni-Dose	Stenner
Model	U041-281TT	85MHP17
Size	1.25 GPH	17 GPD

Figure 2-3: Chemical Treatment

2.1.3 Storage

The Oak Haven water treatment plant has a 5,000-gallon hydropneumatic storage tank onsite, shown in Figure 2-4. The tank is plumbed with 3-inch butterfly valve at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed and a ball valve to drain the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in December 2018 and the report stated that the exterior was in overall good condition and the interior of the tank appeared to be in fair condition. The tank interior did have slight corrosion noted on the tank ridge. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-4: Storage Tank

2.1.4 Pump Station Building

The treatment plant has no building onsite. The well, tank, and chemical treatment is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite. There is heavy vegetation above and around the site.

2.1.5 Back-Up Power

There is no emergency generator onsite or quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on September 26, 2018 and had one deficiency regarding a late tank inspection. The plant was returned to compliance on January 8, 2019. The plant has received no violations in the last 10 years, and no positive bacteria results were noted during 2019 monthly sampling. Please refer to Appendix E for the Sanitary Survey Report.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is poor lighting at the site, and it is recommended that flood lights be installed to allow the site to be safely accessed at night.

The plant has no building or structure in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to construct a building onsite to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail

- System Pressure
- Chlorine Level

2.3.1.1 Electrical Components

From the site visit and visual of the electrical components (example shown in Figure 2-5), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended that a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-5: Well Starter Outlet

2.3.2 Source of Supply

Well #1 has a check valve functioning as a vent. A screen should be installed to prevent contamination.

There is a 3-inch Master meter on Well #1. This meter should be replaced with meters that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

2.3.3 Water Treatment and Pumping

The chlorine injection point was noted to be leaking at the time of the inspection. This should be fixed or replaced.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there is a 300-gallon tank for chlorine, and five 30-gallon containers for the polyphosphate. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals, and the extra containers of the polyphosphate should be removed. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chlorine bulk tank with a more compact 275-gallon intermediate bulk

container (IBC), and storing the chemicals in an enclosed container such as the PIG IBC Roll Top Hardcover Spill Pallet, with a 360-gallon containment capacity. An example is shown in Figure 2-6.

Figure 2-6: PIG 275-gallon IBC and Enclosure

For the polyphosphate, two tanks should be stored in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-7.

Figure 2-7: PIG 66-Gallon Tank Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank inspection report noted the tank interior to be in fair condition, with only slight surface corrosion noted. This should be re-checked in the next tank inspection.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1982 and supplies water to four blocks using a 1.5 to 4-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed, and one blowoff valve in the Northside Villas. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home as its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Oak Haven to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Oak Haven is: **$31,500**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1000
Upgrade Electrical	$15,000
Mission Monitoring at Well	$10,000
Total	$26,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$5,500
Total	$5,500

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Oak Haven to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-4 through Table 4-7. The total cost estimate for Capital Improvements at Oak Haven is: **$67,000.**

Table 4-4: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Two Source Meters	$3,500
Total	$3,500

Table 4-5: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Total	$11,500

Table 4-6: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27 000
Total	$27,000

Table 4-7: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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 +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: 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 (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 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.

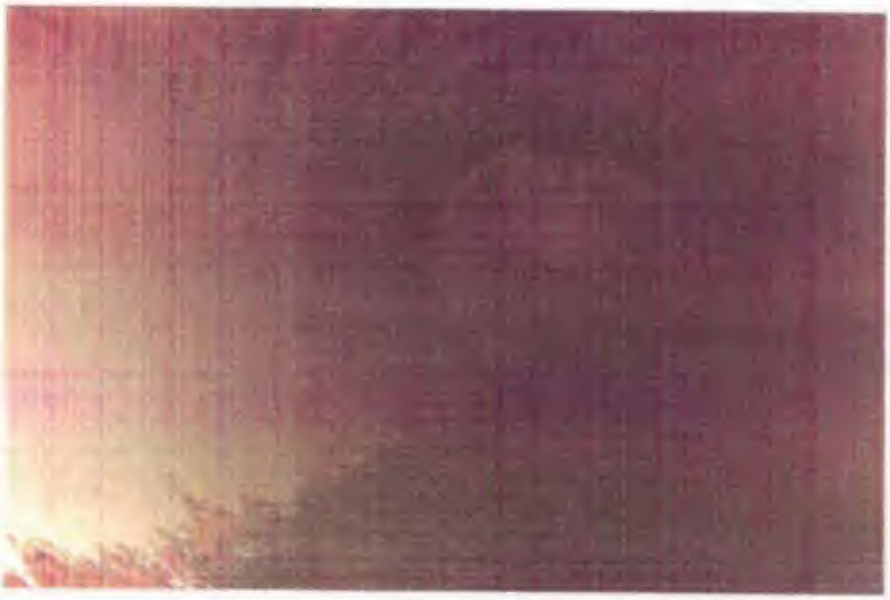
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating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

Table of Contents

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: _____

☐ 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

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

PWS ID # 3424106
Date 09/26/2018

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.

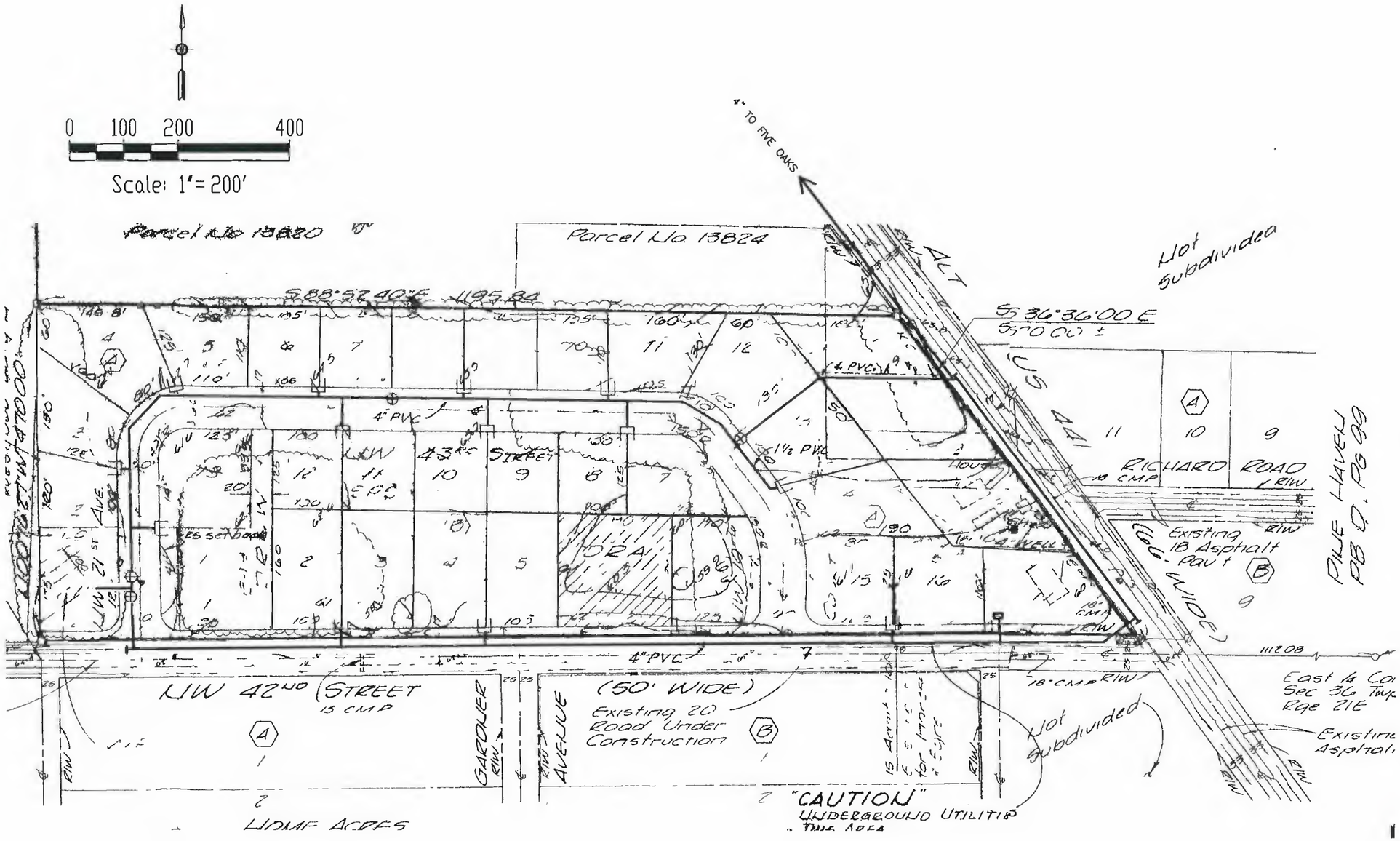
  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers 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 502 OCALA, FLORIDA 34471
PH: (352) 840-8500 FAX: (352) 840-8777

OAK HAVEN

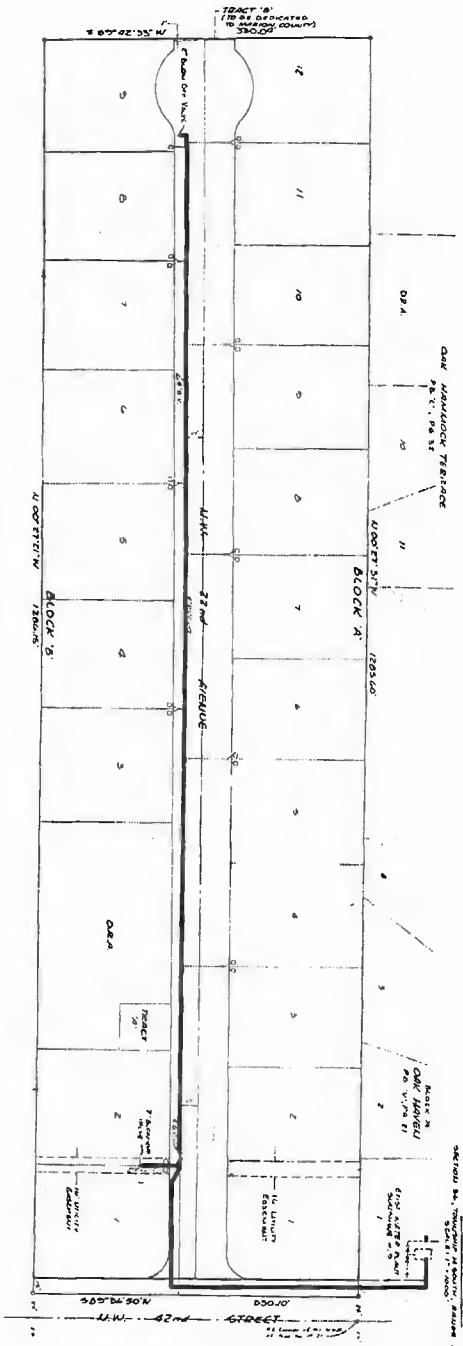
SUNSHINE UTILITIES INC.
MARION COUNTY, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9838-02

1

Sheet 1 Of 1



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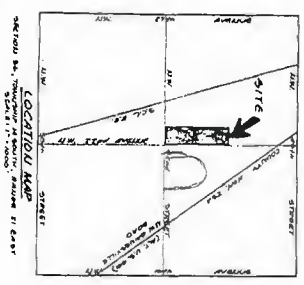

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DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

Sheet 1 OF 1

NORTHSIDE VILLAS

SUNSHINE INDUSTRIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST, SUITE 502
OCALA, FLORIDA 34471
FAX (352) 840-9538
(352) 840-9774

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Oakcrest Villas Sun Resort. A summary of the main parameters for the water system are summarized below in Table 1-1.

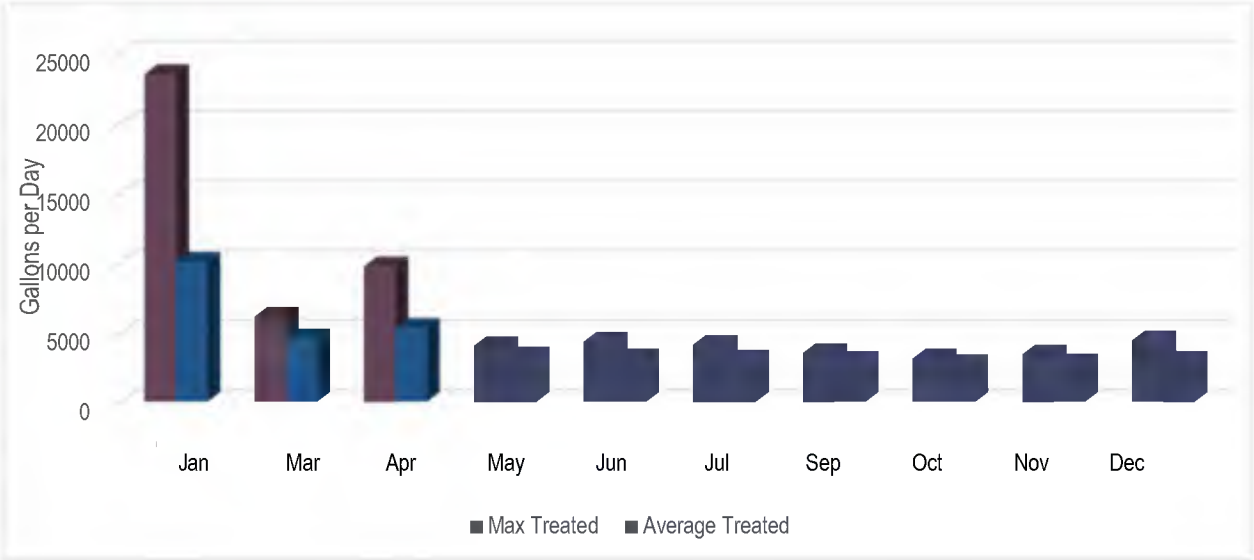
Table 1-1: Oakcrest Villas System Information

Water System Name	Oakcrest Villas/Sun Resort
PWD ID Number	3421201
Classification	Community
Plant Category & Class	5D
Street Address	CR 326 & 71st Place
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	80 (Sanitary Survey)
Number of Service Connections	32 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	4,059 GPD (2019 Monthly Reporting)
Maximum Day Water Use	23,500 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	21,600 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Oakcrest Villas community is depicted in Figure 1-1.

Figure 1-1: Oakcrest Villas Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 through a check valve and into a 300-gallon steel hydropneumatic vertical tank. The well turns on at 45 psi and off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 2-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side and flows through a 2-inch Master flow meter and then out to distribution.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	100 feet deep, 30 GPM	1974 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	300 gallons, Steel	Approx. 2003 (Tank Inspection Report)	Poor

2.1.1 Source

The Oakcrest Villas well, shown in Figure 2-1, is located next to the tank within a locked fenced in area and is located 30 feet from the road. The well is in the middle of a field between apartment complexes. The top of the well casing is about 6 inches above grade and within a concrete pad. The well is 100 feet deep with one submersible Sta-Rite 30 GPM pump and a 2 HP motor at 230 Volts. There is a bleeder vent that is used as the air vent, and a sample tap off the top. The well pump was recently replaced, and the conduit was open with exposed wire during the time of the inspection.

There are 3 potential contaminant sources within a 1000-foot radius of the well. All three contaminant sources are petroleum storage tanks for gas stations with a low concern level as listed by FDEP. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is 1:5 of 10.5% chlorine to water. The chlorine is stored in two 35-gallon drums, one for mixing and one for chemical storage, shown in Figure 2-2. The chlorine pump is a diaphragm 24 GPD Unidose, set at 50% stroke. The chemical metering pump at the facility is shown in Table 2-2. The average distribution residual in 2019 was 0.8 mg/L.

The chlorine pump will turn on when the pump is energized. The chemical pump outlet is wired to the well pump starter.

Table 2-2: Oakcrest Villas Chemical Metering Pumps

Chemical Pump	Chlorine
Number of Pumps	1
Brand	Uni-Dose
Model	X015-XA-AAAFXXX
Size	24 GPD

Figure 2-2: Chemical Treatment

2.1.3 Storage

The Oakcrest Villas water treatment plant has a 300-gallon hydropneumatic storage tank onsite, shown in Figure 2-3. The tank is plumbed with 2-inch gate valve at the inlet and outlet of the tank with a 2-inch bypass line that is normally closed. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube connector, but the sight tube was removed at the time of inspection. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The storage tank had no exterior coating and was rusting in places along the side of the tank.

The most recent inspection on the storage tank was performed in December 2018 and the report stated that the exterior tank appeared to be in overall fair condition except for one pin hole. It appears this leak was patched as shown in Figure 2-4, and another leak has formed as shown in Figure 2-5. The interior of the tank was not inspected because the tank has no man way or opening. Please refer to Appendix B for the Tank Inspection Report.

Figure 2-3: Storage Tank

Figure 2-4: Patch on Storage Tank

Figure 2-5: Storage Tank Leak

2.1.4 Pump Station Building

The treatment plant has no building onsite, shown in Figure 2-6. The well, tank, and chemical treatment is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite.

Figure 2-6: Oakcrest Villa Treatment Site Layout

2.1.5 Back-Up Power

There is no emergency generator onsite or quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years, however the level for nitrates, which are sampled quarterly, was greater than half of the allowable limit all four quarters. Please refer to Appendix D for the 2019 Consumer Confidence Report.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 23, 2018 and the report stated that no deficiencies were noted during the inspection. The plant has received no violations in the last 10 years, and no positive bacteria results were noted during 2019 monthly sampling. Please refer to Appendix E for the Sanitary Survey Report.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The plant has no building or structure in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to construct a building onsite to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Components

From the site visit and visual of the electrical components, replacement may be necessary for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended that a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Source of Supply

The well pump was recently replaced, and the conduit was open with exposed wire during the time of the inspection and therefore the well casing is not watertight. This is required under Florida Administrative Code 64-E.8005(2)(g).

2.3.3 Water Treatment and Pumping

The system has a 2-inch Master meter after the tank which will have to be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 35-gallon tanks for chlorine treatment. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-7.

Figure 2-7: PIG 66-Gallon Tank Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank had a leak and will need a patch applied. A sight tube should be installed to be able to visually check the tank level. The tank inspection report noted the tank interior could not be inspected because there were no manways to inspect the interior.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1974 and supplies water to two blocks using a 2-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

The distribution system map does not show any flush points in the system. A flush point should be installed on the northwestern section of the distribution loop across from the 2-inch gate valve. An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Oakcrest Villas to normal operating conditions are summarized with cost estimates in Table 4-1 through Table 4-3. The total cost estimate for Triage Repairs at Oakcrest Villas is: **$29,700**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$15,000
Mission Monitoring at Well	$10,000
Total	$26,000

Table 4-2: Source of Supply Triage Repairs

Recommendation	Estimate
Repair Exposed Well Pump Wires	$1,000
Total	$1,000

Table 4-3: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Patch Leak on Tank	$1,000
Total	$2,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Oakcrest Villas to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-5 through Table 4-7. The total cost estimate for Capital Improvements at Fore Oaks is: **$69,000**.

Table 4-5: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Replace Distribution Meter	$3,500
Total	$15,000

Table 4-6: Water Distribution System Capital Improvements

Recommendation	Estimate
Install Blowoff Valve	$2,000
Automatic Flushing Unit	$27,000
Total	$29,000

Table 4-7: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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

Accessibility Information

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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Table of Contents

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 +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: 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 (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 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
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

Table of Contents

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		

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: _____

☐ 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

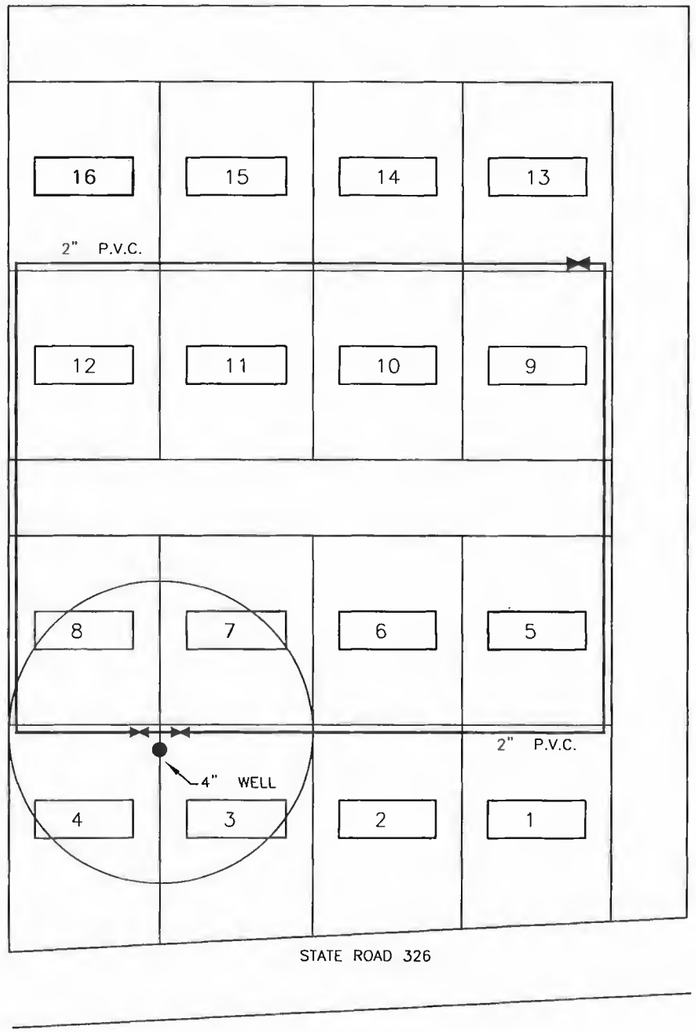
COMMENTS (continued):

- 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

N

0 100 200

Scale: 1"= 100'

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

H. W. BARRINEAU & ASSOCIATES, INC.
5100 SOUTHEAST 17TH ST. SUITE 808 OCALA, FLORIDA 34471
PH (352) 840-0808 FAX (352) 840-8774

SUTTON'S DUPLEX

SUNSHINE INDUSTRIES INC.

OCALA, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	11 APR 97	HWB	PWM

Project No. 9636-02

1

Sheet 1 Of 1

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Oakhurst
Subdivision

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Oakhurst Subdivision. A summary of the main parameters for the water system are summarized below in Table 1-1.

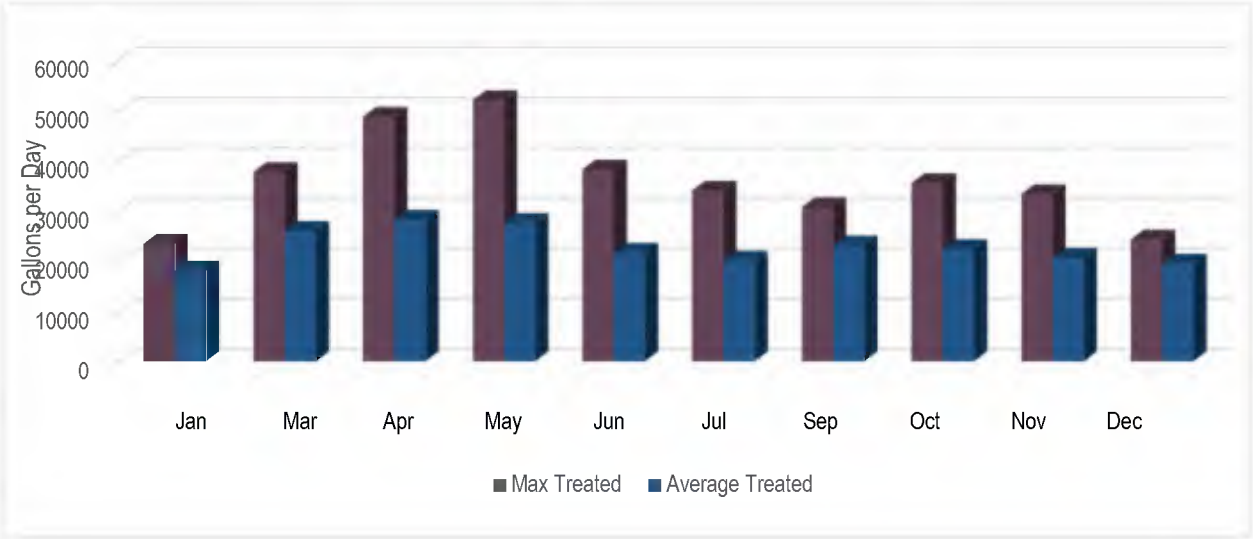
Table 1-1: Oakhurst Subdivision System Information

Water System Name	Oakhurst Subdivision
PWD ID Number	3424032
Classification	Community
Plant Category & Class	5C
Street Address	2040 SE 56th Terrace
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	346 (Sanitary Survey)
Number of Service Connections	99 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	22,629 GPD (2019 Monthly Reporting)
Maximum Day Water Use	51,900 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	288,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Oakhurst Subdivision community is depicted in Figure 1-1.

Figure 1-1: Oakhurst Subdivision Average Water Use 2019



Source: 2019 Monthly Reporting

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 though a check valve and a 3-inch Master Meter into the 3,000-gallon steel hydropneumatic tank. The well turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and flows out to the distribution system.

Table 2-1: Major System Components

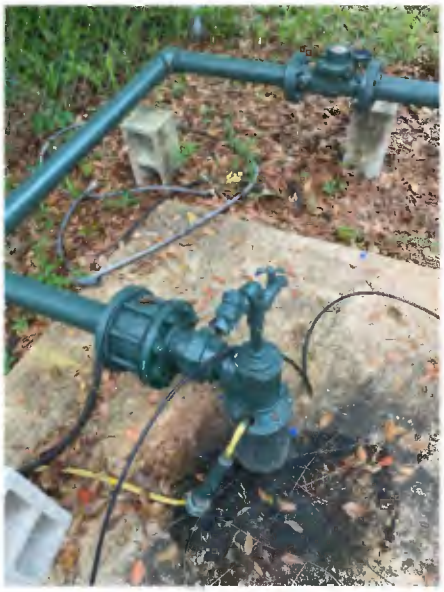
Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	138 feet deep, 200 GPM	1978 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	3,000 gallons, Steel	2019 (Tank Information Plate)	Good
Building	Wood	8.25 by 3.8 feet	Unknown	Poor

2.1.1 Source

The Oakhurst Subdivision well, shown in Figure 2-1, is located next to the tank within a locked fenced in area and is about 10 feet from SE 56th Ter. The top of the well casing is 12 inches above grade and within a concrete pad. The well is 138 feet deep with one submersible Sta-Rite 200 GPM pump, 10 HP motor, and 230 Volts. The well has a flapper vent that is used as the air vent, and a sample tap off the top. The well pump wire is not sealed in a conduit. There is a 3-inch Master Meter after the well.

There is one known potential source of contamination within a 1000-foot radius of the well. The potential source is petroleum contamination from a petroleum storage tank at a gasoline service station. FDEP lists the contaminant source as a moderate concern level. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1



2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydro pneumatic tank. The chlorine mix is 1:3 of 10.5% chlorine to water and is housed in two 35-gallon drums, one drum is used for mixing the chlorine and the other drum is used for chemical storage, and they located in the pump station building, as shown in Figure 2-2. The chemical pump is a peristaltic 24 GPD Uni-Dose Pump, set at 25% stroke. Refer to Table 2-2 for the chemical pump information. The average distribution residual in 2019 was 1.2 mg/L.

The chlorine pump will turn on when the pump is energized. The chemical pump outlet is wired to the well pump starter.

Table 2-2: Oakhurst Chemical Metering Pumps

Chemical Pump	Chlorine
Number of Pumps	1
Brand	Uni-Dose
Model	UD001-238NU
Size	24 GPD

Figure 2-2: Chlorine Treatment

2.1.3 Storage

The Oakhurst water treatment plant has a 3,000-gallon hydropneumatic storage tank on-site, shown in Figure 2-3. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor, and air is injected

into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The storage tank onsite was installed in 2019 to replace an older storage tank. The tank is not required to have its 5-year inspection until 2024.

Figure 2-3: Storage Tank

2.1.4 Pump Station Building

The pump station structure is an 8.25 by 3.8-foot wood enclosure primarily used for storage of the chlorine mixing, injection tank, and facility logbook, shown in Figure 2-4. There is an open wall and provides no containment for spills or protection from rodents and insects. The roof is sagging and does not appear to be able to provide adequate protection for the chemical storage in the event of a hurricane. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

Figure 2-4: Pump Station Building

2.1.5 Back-Up Power

There is no emergency generator onsite or quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix B for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix C for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on December 18, 2020 and stated that no deficiencies were noted during the inspection. In addition, no compliance issues or violations were observed in the Florida Department of Environmental Protection information portal in the last ten years. Please refer to Appendix D for the Sanitary Survey Report.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The wooden shed onsite has been subject to degradation from chlorine off gassing and general weathering over time and the roof is sagging and does not appear to be able to provide adequate protection for the chemical storage in the event of a hurricane. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made. Remote monitoring of the following parameters is recommended:

- Flow (Instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Components

From the site visit and visual of the electrical components (example shown in Figure 2-5), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended that a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-5: Electrical Components

2.3.2 Source of Supply

The well pump wire was exposed and without a conduit during the time of the inspection and therefore the well casing is not watertight. This is required under Florida Administrative Code 64-E.8005(2)(g).

The system has a 2-inch master meter after the well. The meter should be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 35-gallon tanks for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical drums to have more compact 30-gallon drums and storing the chemicals in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-6.

Figure 2-6: PIG 66-Gallon Tank Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1978 and supplies water to ten blocks using 2-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections if needed and one blow-off valve. The system provides the community with potable water only (no fire flow water). Refer to Appendix E for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes, and each home has its own aboveground meter located behind each lot. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Oakhurst to normal operating conditions are summarized with cost estimates in Tables 4-1 and 4-2. The total cost estimate for Triage Repairs at Oakhurst is: **$27,700**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$15,000
Mission Monitoring at Well	$10,000
Total	$26,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Total	$1,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Oakhurst to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-6. The total cost estimate for Capital Improvements at Oakhurst is: **$67,000**.

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$3,500
Total	$3,500

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Total	$11,500

Table 4-5: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Total	$27,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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

Table of Contents

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:

_____

☐ 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

PWS ID # 3424032
Date 1/23/18

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.]

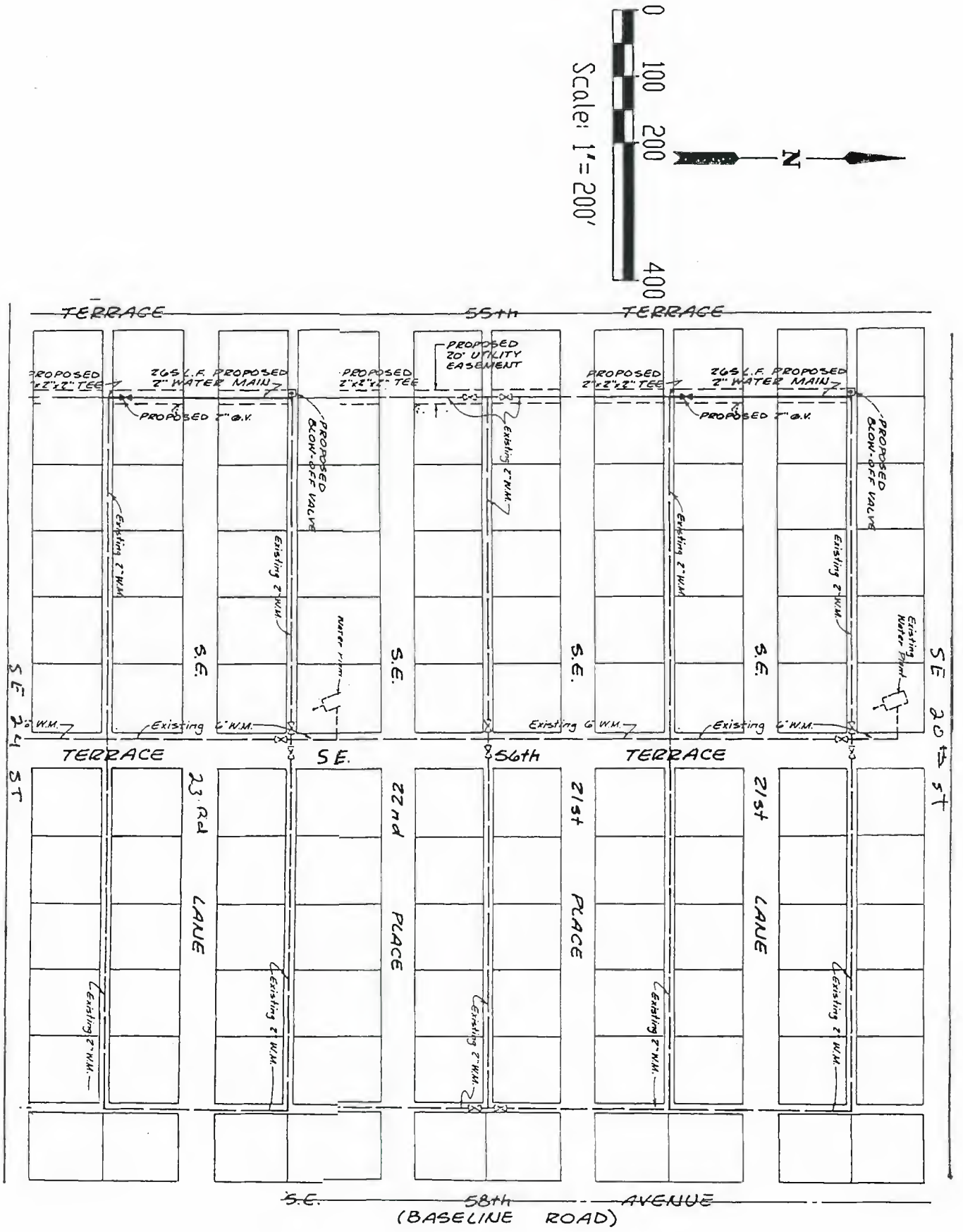
PWS ID # 3424032
Date 1/23/18

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	*Reviewer Signature*
Viviana Penuela Useche	Christine Daniel
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
2-21-18	3/1/18

APPENDIX E: DISTRIBUTION MAP



DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9639-02

1

OAKHURST

SUNSHINE INDUSTRIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 302
OCALA, FLORIDA 34471
FAX (352) 840-9298
(352) 840-9774

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Ocala Gardens Apartments

WOODARD &CURRAN

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

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

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July 2021

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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Ocala Gardens. A summary of the main parameters for the water system are summarized below in Table 1-1.

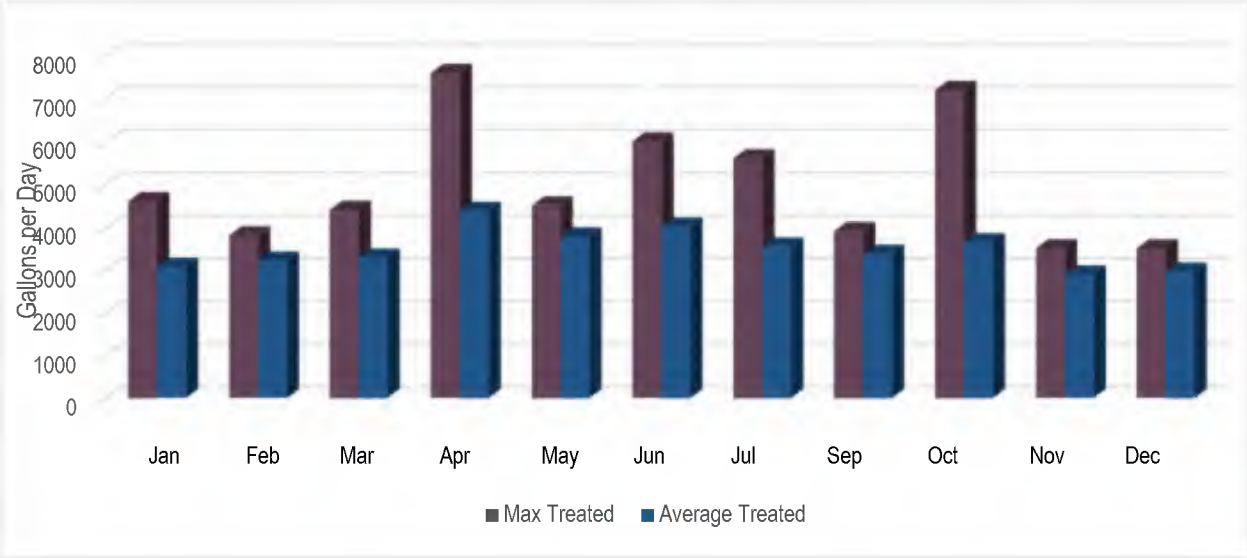
Table 1-1: Ocala Garden System Information

Water System Name	Ocala Gardens Apartments
PWD ID Number	3421554
Classification	Community
Plant Category & Class	5D
Street Address	581 SW 23rd Street
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	48 (Sanitary Survey)
Number of Service Connections	24 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	3,464 GPD (2019 Monthly Reporting)
Maximum Day Water Use	7,600 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	39,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Ocala Gardens community is depicted in Figure 1-1.

Figure 1-1: Ocala Garden Average Water Use 2019



Source: 2019 Monthly Reporting

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 through a check valve and into a 900-gallon steel hydropneumatic vertical tank. The well turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 2-inch bypass line for the tank that is normally closed. Water exits the tank and flows through a 2-inch Master flow meter and then out to distribution.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	240 feet deep, 50 GPM	1991 (Sanitary Survey)	Fair
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	900 gallons, Steel	Unknown	Fair

2.1.1 Source

The Ocala Garden well is located next to the tank within a small, locked fenced in area and is located 10 feet from SW 23rd Street and 40 feet from a railroad. The top of the well casing is 3 feet above grade and within a concrete pad. Sunshine Utility representative stated that the well was modified within the last 5 years to be 3 feet above ground level because the surrounding area had severe flooding during hurricanes. They stated that hurricanes can leave up to a foot of flooding and typically takes over a month to drain. The well is 240 feet deep with a submersible 50 GPM pump and a 2 HP motor at 230 Volts. There is a tap with a check valve that is used as the air vent, and a sample tap off the top. Well 1 is shown in Figure 2-1.

There are no potential contaminant sources within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is unknown. The chlorine is stored in a 35-gallon day tank. The chlorine pump is a diaphragm 12 GPD Unidose, set at 50% stroke. The average distribution residual in 2019 was 0.9 mg/L. The chemical metering pump at the facility is shown in Table 2-2.

The chlorine pump will turn on when the pump is energized. The chemical pump outlet is wired to the well pump starter.

Table 2-2: Ocala Gardens Chemical Metering Pumps

Chemical Pump	Chlorine
Number of Pumps	1
Brand	Uni-Dose
Model	U021-2811TT
Size	0.50 GPH

Figure 2-2: Chemical Treatment

2.1.3 Storage

The Ocala Gardens water treatment plant has a 900-gallon hydropneumatic storage tank onsite, shown in Figure 2-3. The tank is plumbed with 2-inch ball valve at the inlet and outlet of the tank with a 2-inch bypass line that is normally closed. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and a pressure gauge for quick reference. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in December 2018 and stated that the tank exterior appeared to be in good structural condition. The tank has no manway or opening to view the interior

of the tank, therefore no interior inspection was performed. Please refer to Appendix B for the 2018 Tank Inspection Report.

Figure 2-3: Storage Tank

2.1.4 Pump Station Building

The treatment plant has no building onsite. The well, tank, and chemical treatment is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite. The area is susceptible to flooding especially during hurricanes.

2.1.5 Back-Up Power

There is no emergency generator onsite or quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on February 6, 2020 and the report stated that no deficiencies were noted during the inspection. Please refer to Appendix E for the Sanitary Survey Report. The plant has received two violations in the last 10 years, both related to late reporting for disinfection byproducts. The violations were issued on October 26, 2018 and were resolved on November 26, 2018. Additionally, no positive bacteria results were noted during 2019 monthly sampling.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The plant has no building or structure in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to construct a building onsite to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be needed for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended that a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Water Treatment and Pumping

The system has a 2-inch meter after the tank which will have to be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there is a 35-gallon tank for chlorine treatment. The container should be stored on a secondary containment pallet that can contain the total volume of the chemical. The container is also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical storage tank to have more a more compact 30-gallon tank and storing the chemicals in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-4.

Figure 2-4: PIG 66-Gallon Tank Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1991 and supplies water to two blocks using a 2-inch PVC water main in a loop configuration. The loop does not appear to have valves for isolating part of the loop or any blowoff valves. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that there are no backflow prevention devices or fire hydrants in the distribution system. The Ocala Gardens plant services mostly quadplex apartments, with each tenant having its own water meter. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

The distribution system map does not show any flush points in the system and the map is difficult to read to see if there are any dead-end plugs or valves in the system. A blowoff valve should be installed at one of the corners of the distribution loop. An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Ocala Gardens to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Capital Improvements at Ocala Gardens is: **$27,700**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$15,000
Mission Monitoring at Well	$10,000
Total	$26,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Total	$1,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Ocala Gardens to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 and Table 4-5. The total cost estimate for Capital Improvements at Ocala Gardens is: **$79,500**.

Table 4-3: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Replace Distribution Meter	$3,500
Total	$15,000

Table 4-4: Water Distribution System Capital Improvements

Recommendation	Estimate
Install Blowoff Valve	$2,000
Automatic Flushing Unit	$27,000
Total	$29,000

Table 4-5: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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

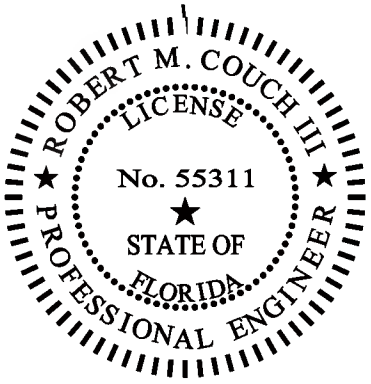
Burks-Ocala Gardens Subdivision Tank

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 +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: 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 (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 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.
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

Table of Contents

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) 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:

_____

☐ 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

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

Ellia Ruggiero

Inspector Signature

Ellia Ruggiero
Printed Name

Environmental Specialist II
Title

2/06/2020
Date

David Smicherko

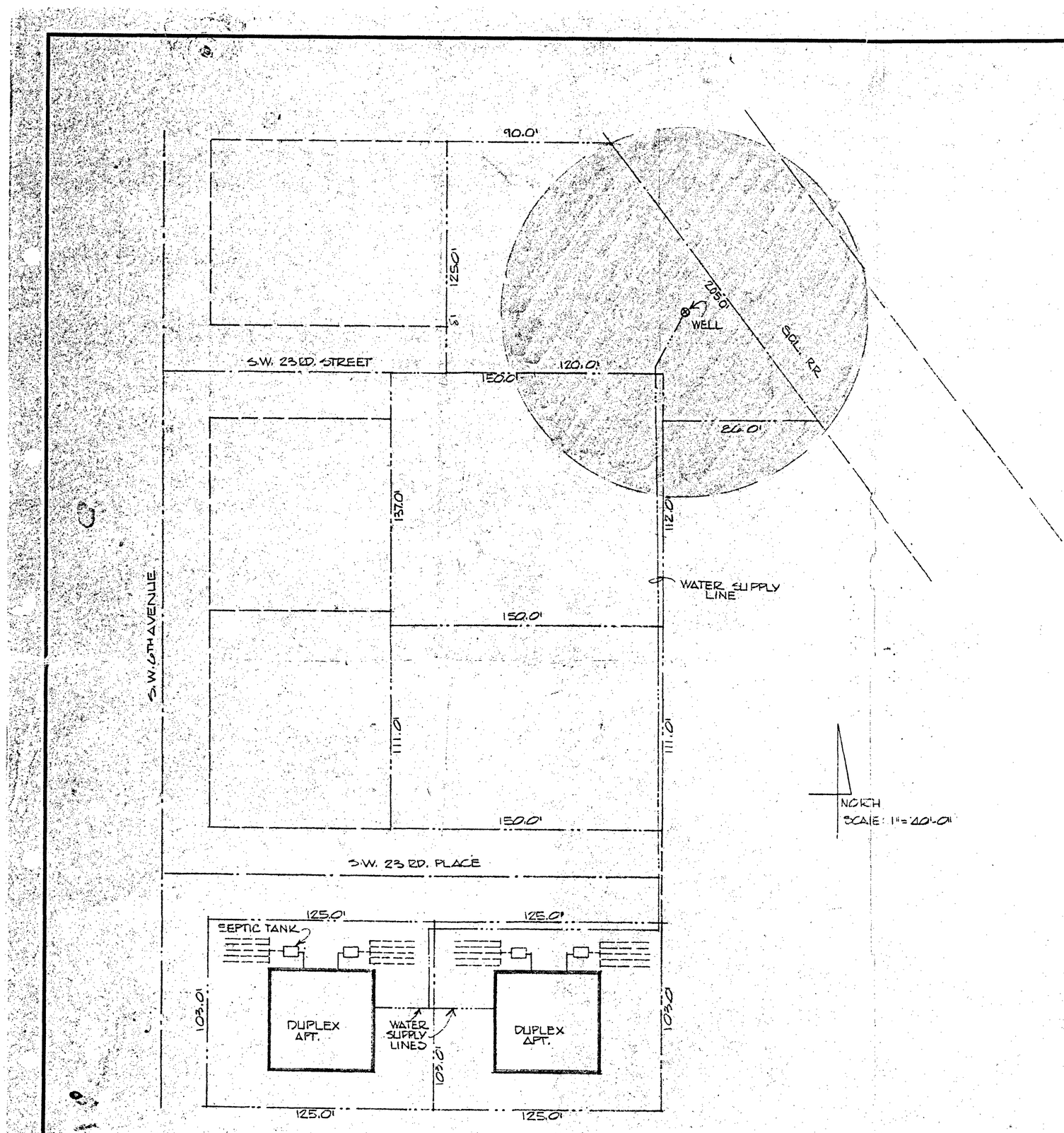
Reviewer Signature

David Smicherko
Printed Name

Environmental Manager
Title

2/17/2020
Date

APPENDIX F: DISTRIBUTION MAP



SITE PLAN

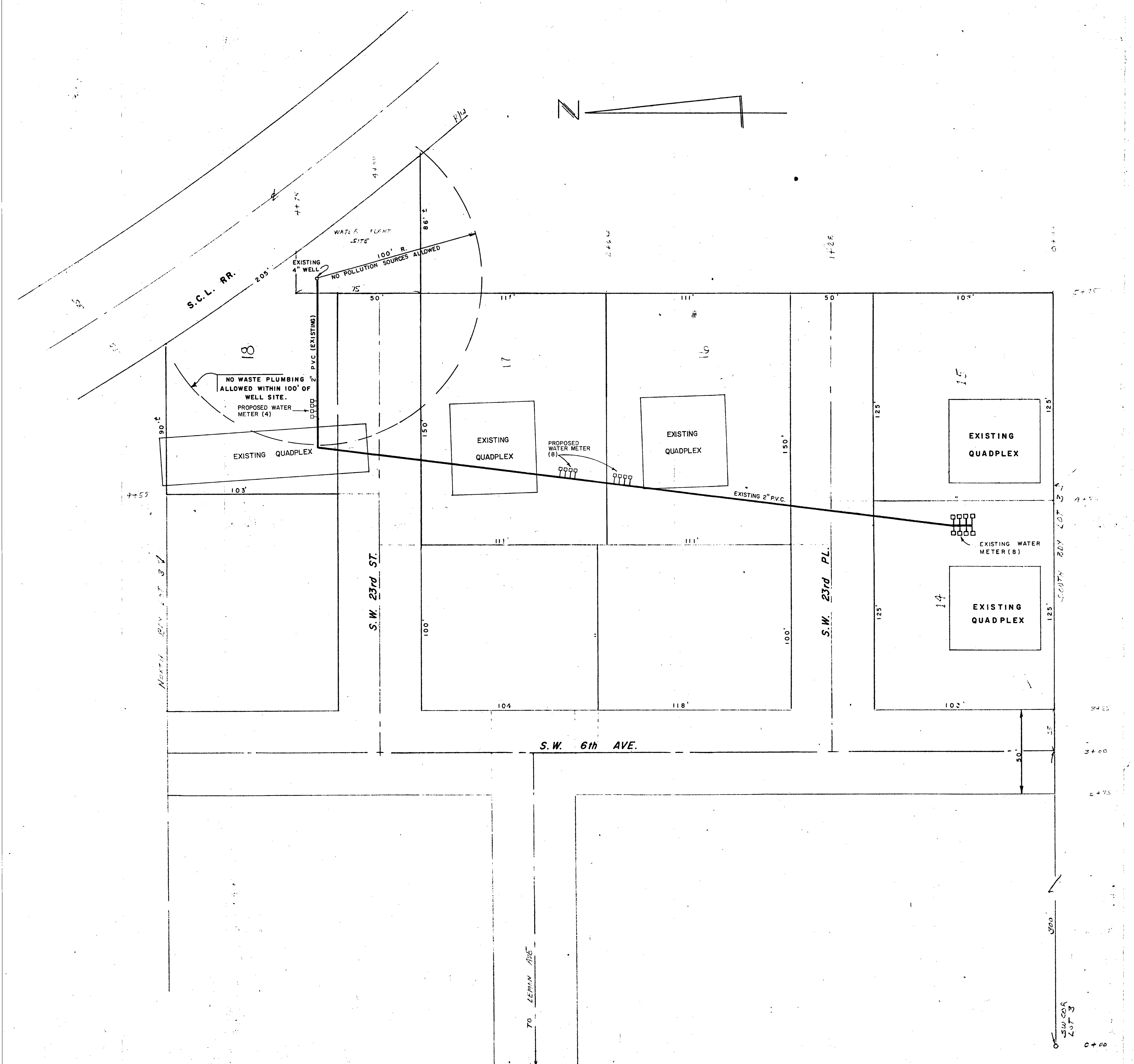
PLANS BY...

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



	5-79	WATER METERS
REV.	3-79	AS BUILT BUILDINGS

WATER DISTRIBUTION SYSTEM

THOMPSON QUADPLEXES

MARION COUNTY, FLORIDA

MOORHEAD ENGINEERING COMPANY
CONSULTING ENGINEERS · LAND SURVEYORS · LAND PLANNERS
home office
P.O. BOX 998 305 SE. 1st AVE. OCALA, FLORIDA
branch offices
HOMOSASSA - CRYSTAL RIVER and LEESBURG, FLORIDA

Drawn by: J S P	Date: MAY, 1978.	Job No. 77-178
Approved by: JRG	Scale: 1" = 30'	FB. Pg.

SHEET NO. 1 OF 2 SHEETS

WOODARD &CURRAN

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

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Ocala Heights. A summary of the main parameters for the water system are summarized below in Table 1-1.

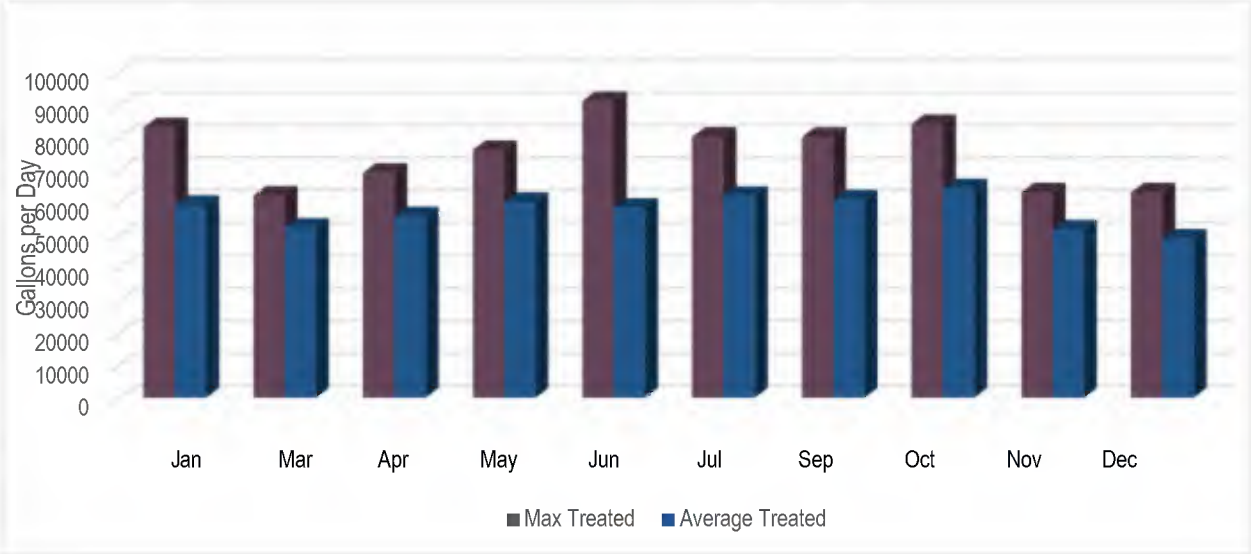
Table 1-1: Ocala Heights System Information

Water System Name	Ocala Heights S/D
PWD ID Number	3424651
Classification	Community
Plant Category & Class	5C
Street Address	190 NE 68th Ct
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	825 (Sanitary Survey)
Number of Service Connections	331 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	57,256 GPD (2019 Monthly Reporting)
Maximum Day Water Use	91,000 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	676,800 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Ocala Heights community is depicted in Figure 1-1.

Figure 1-1: Ocala Heights Average Water Use 2019



Source: 2019 Monthly Reporting

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two water wells onsite, Well 1 and Well 2. Water is pumped from both wells through check valves and joins before flowing through a 4-inch Neptune flow meter then into the 10,000-gallon steel hydropneumatic tank. The well turns on when pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 4-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and goes through a 6-inch Master flow meter and out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	150 feet deep, 120 GPM	1984 (Sanitary Survey)	Fair
Source	Well 2	140 feet deep, 470 GPM	1988 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	10,000 gallons, Steel	Unknown	Fair
Generator	Kohler Generator	38 kW, 47.5 KVA	Unknown	Fair
Building	CMU	9.8 by 5.3 feet	Unknown	Fair

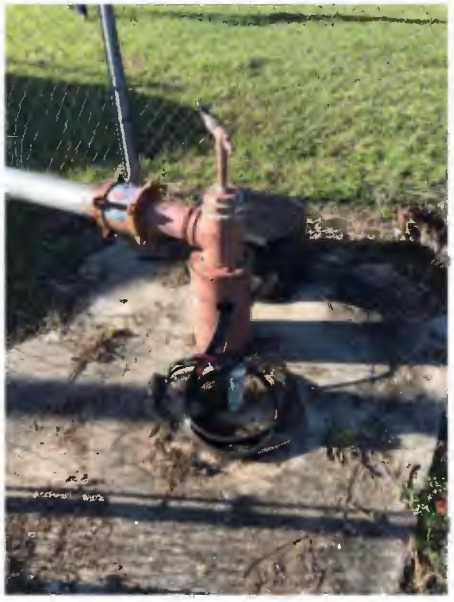
2.1.1 Source

The Ocala Heights Well 1 is the lead well and located with a locked fenced in area near the storage tank. The top of the well casing is 8 inches above grade and within a concrete pad. The well is 150-feet deep with a submersible Sta-Rite 120 GPM pump, 10 HP motor. Well 1 has a two sample taps, the sample tap on top is used as an air vent with a check valve and the second sample tap is used for sampling. Well 1 is shown in Figure 2-1.

Figure 2-1: Well 1

The Ocala Heights Well 2 is located within a locked fenced-in area and is about 20 feet from the tank. The top of the well casing is 16 inches above grade and within a concrete pad. The well is 140-feet deep with a submersible Sta-rite 470 GPM pump, 30 HP motor. The well pump appeared to be recently replaced, but the Sunshine Utilities representative could not remember the installation date. The conduit was not sealed and was exposed to the atmosphere. Well 2 has two sample taps, one tap is used as an air vent with a check valve and the second sample tap is used for sampling. There is a capped pipe off the side for the purpose of introducing shock chlorination to the well if needed. Well 2 is shown in Figure 2-2.

Figure 2-2: Well 2



The wells have a combined 4-inch Neptune meter located prior to the hydropneumatic tank. The meter is shown in Figure 2-3.

Figure 2-3: Well 1 and 2 Combined Flow Meter

There are two unique potential contaminant sources within a 1000-foot radius of the well. Both sources are related to a domestic wastewater treatment facility, the Ocala East Villas Wastewater Treatment Facility, which are listed as a low level of concern by FDEP. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is 1:4 of 10.5% Chlorine to water and the mix is stored in a 55-gallon drum. There is a second 55-gallon drum to store the chlorine. There are two chemical pumps, one for each well, however the chemical pump for well #2 did not have tubing or injection point. The well #1 chemical pump is a diaphragm 30 GPD Chem-Tech Pump, set at 100% stroke, and the well #2 chemical pump is a 30 GPD Uni-dose diaphragm pump. The chemical metering pumps at Ocala Heights are shown in Table 2-2. The average distribution residual in 2019 was 1.3 mg/L.

The chlorine pump will turn on when the pump is energized. Each chemical pump outlet is wired to the well pump starter.

Table 2-2: Ocala Heights Chemical Metering Pumps

Chemical Pump	Chlorine Pump #1	Chlorine Pump #2
Number of Pumps		
Brand	Chem-Tech	Uni-Dose
Model	Illegible	Illegible
Size	30 GPD	30 GPD

Figure 2-4: Chlorine Treatment

2.1.3 Storage

The Ocala Heights water treatment plant has a 10,000-gallon hydropneumatic storage tank on-site, shown in Figure 2-5. The tank is plumbed with 4-inch isolation butterfly valves at the inlet and outlet of the tank with a 4-inch bypass line that is normally closed, and a tank drain located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference, but the pressure gauge

was illegible. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in April 2019 and stated that the tank exterior appeared to be in fair structural condition. The interior coating was in fair condition but there were areas where the coating had begun to fail and surface corrosion was noted in various areas throughout the tank interior. Please refer to Appendix B for the 2018 Tank Inspection Report.

2.1.4 Pump Station Building

The pump station building is a 9.8 by 5.3-foot CMU building with a wooden roof primarily used for storage of the chlorine mixing tank, facility logbook, and control panels. The building has no door but has an opening with a width of 3.9 feet. The building had no evidence of roof leaks or rodents, but the open door provides no containment for spills or protection from weather, rodents, and insects, and some of the sidewalls were showing signs of degradation. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite. The building is shown in Figure 2-5.

Figure 2-5: Pump Station Building and Storage Tank

2.1.5 Back-Up Power

The Ocala Heights plant has a 38 kW Kohler Generator unit onsite to power the well pumps if there is an interruption in power supply, shown in Figure 2-6. The generator is exercised one hour per week, and the site is equipped with an automatic transfer switch. The generator runs on propane and is supplied by a 120-gallon propane tank. The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

Figure 2-6: Back-up Power Generator

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 23, 2018 and stated that no deficiencies were noted during the inspection. According to the Florida Department of Environmental Protection's database, the Fore Oaks plant received two violations for disinfection by-product monitoring and reporting in November of 2020.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the sites, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-7), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended that a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-7: Rusted Well Starter Box

The generator on site is old and will likely be due for replacement. Standby power is required at this site per Florida Administrative Code 62-555.320 (14) (a).

2.3.2 Source of Supply

Well 2 is in poor condition, with portions of the well exposed to atmosphere. This puts the well at risk of microbial contamination. Figure 2-8 shows exposed pump wire that should be in a conduit to properly seal the well. The Florida Administrative Code 64E-8.005 requires the well to be watertight.

Figure 2-8: Exposed Conduit on Well 2

Both wells have a sample tap on the vent. These should be removed to prevent the taps from accidently being closed, and a screen should be installed on the vent.

The wells have a combined 4-inch Neptune meter. The meter should be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

2.3.3 Water Treatment and Pumping

The chemical pump for Well #2 had no tubing. Tubing should be installed, and an injection point should be added.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 55-gallon tanks for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon tanks and storing the chemicals outside in an enclosed container such as the PIG PAK601 Roll Top Hardcover Spill Pallet with a 66-gallon containment capacity. An example is shown in Figure 2-9.

Figure 2-9: PIG 66-Gallon Tank Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank inspection report noted the tank interior to be in fair condition, with some areas of corrosion noted. The tank age is unknown but likely over fifteen years old, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1984 and supplies water using a 2 to 8-inch PVC water main in a loop configuration with two blowoff valves. The loop has gate valves to isolate sections if needed located at most roadway intersections. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Ocala Heights to normal operating conditions are summarized with cost estimates in Table 4-1 through Table 4-3. The total cost estimate for Triage Repairs at Ocala Heights is: **$65,200**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$50,000
Mission Monitoring at Well	$10,000
Total	$61,000

Table 4-2: Source of Supply Triage Repairs

Recommendation	Estimate
Repair Exposed Well Pump Wire	$1,500
Total	$1,500

Table 4-3: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Add Chemical Tubing and Injection Point for Well 2	$1,000
Total	$2,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Ocala Heights to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Table 4-4 through Table 4-7.The total cost estimate for Capital Improvements at Ocala Heights is: **$110,500**

Table 4-4: General Plant Capital Improvements

Recommendation	Estimate
Generator Replacement	$35 000
Building and Site Repairs	$25,000
Total	$60,000

Table 4-5: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$4,000
Total	$4,000

Table 4-6: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Interior Tank Coating	$8,000
Transmitters and Other Monitoring Equipment	$2,500
Total	$19,500

Table 4-7: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27 000
Total	$27,000

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 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

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 +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: 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 (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 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:

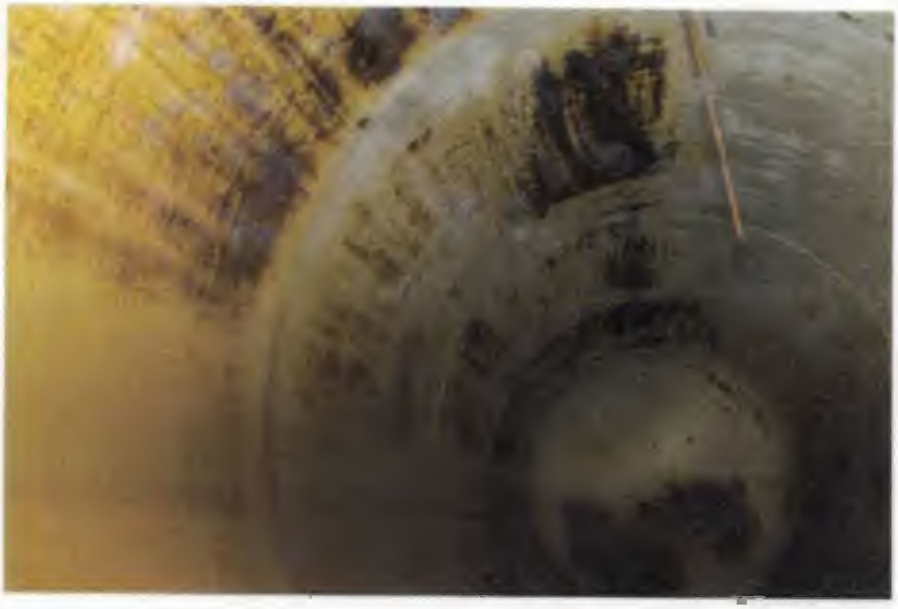
- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected at the next 5 year inspection event, and if necessary, 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:

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

Table of Contents

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:

_____

☐ 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

PWS ID # 3424651
Date 1/23/18

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.]

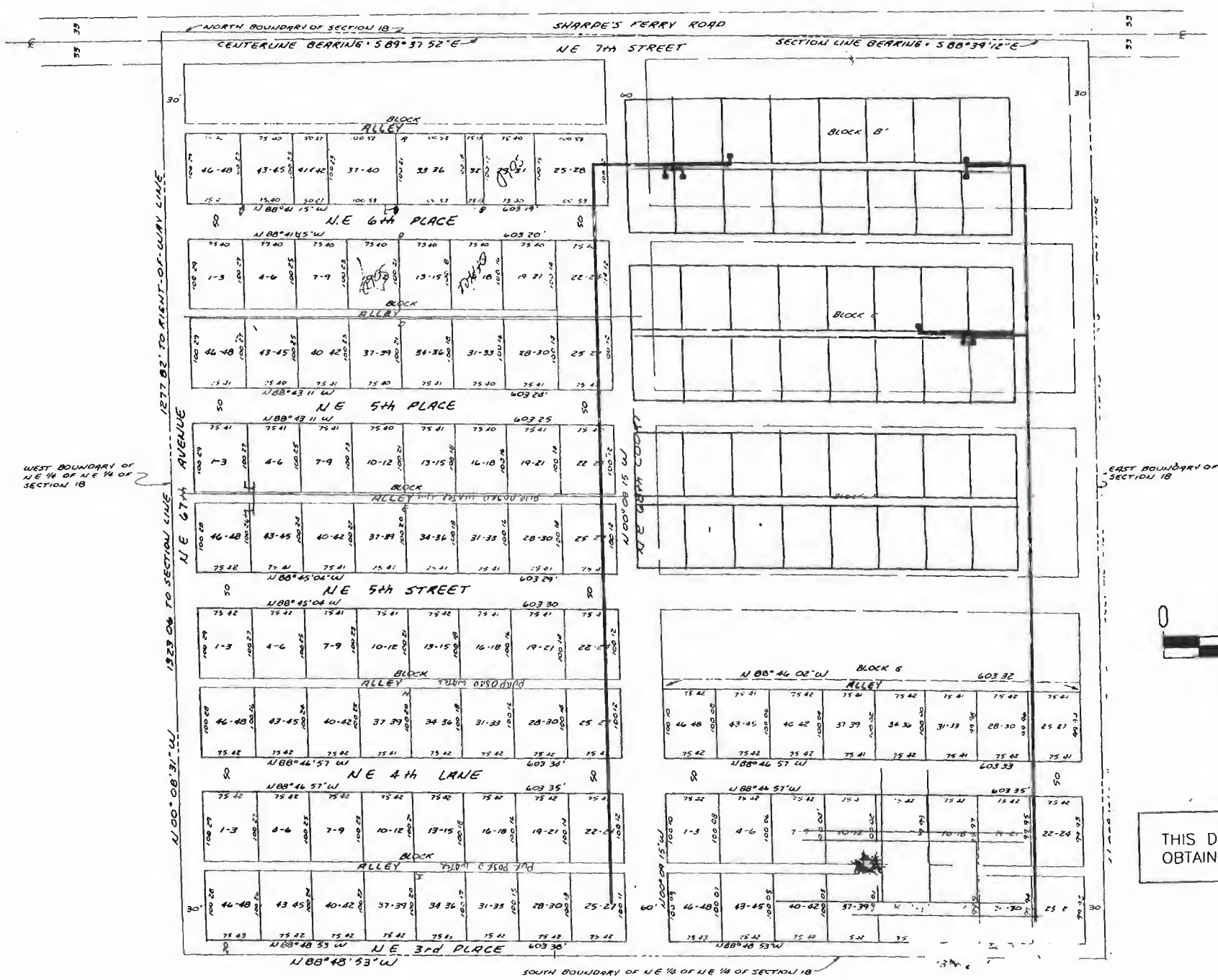
PWS ID # 3424651
Date 1/23/18

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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H.W. BARRINEAU & ASSOCIATES, INC.
8100 SOUTHEAST 17TH ST., SUITE 602 OCALA, FLORIDA 34471
PHONE (352) 840-8580 FAX (352) 840-8774

OCALA HEIGHTS

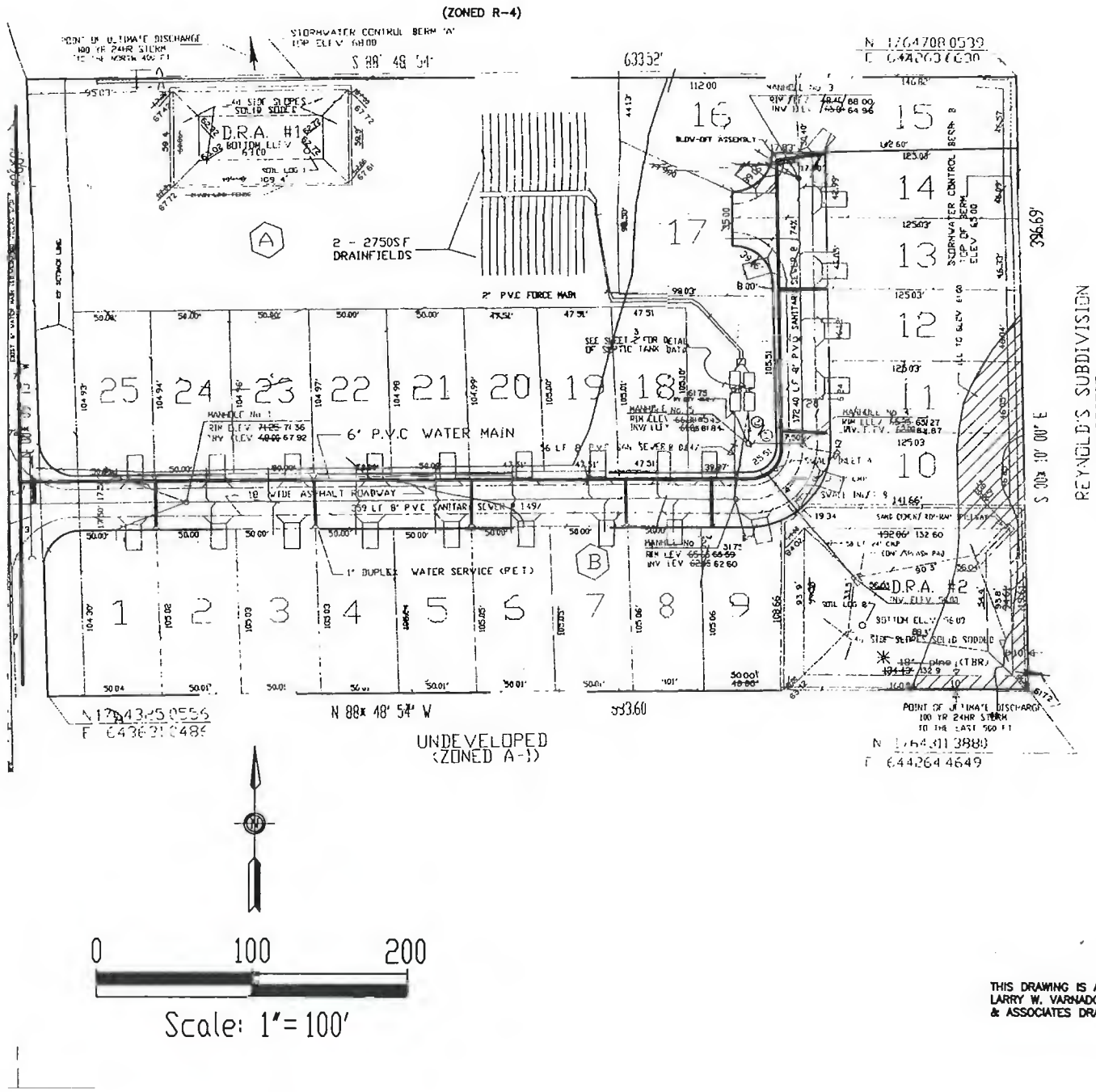
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1



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H. W. BARRINEAU & ASSOCIATES, INC.
3100 SOUTHEAST 17TH ST, SUITE 202 OCALA, FLORIDA 34471
TEL (352) 840-8538
FAX (352) 840-8774

COUNTRY AIRE

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9635-02

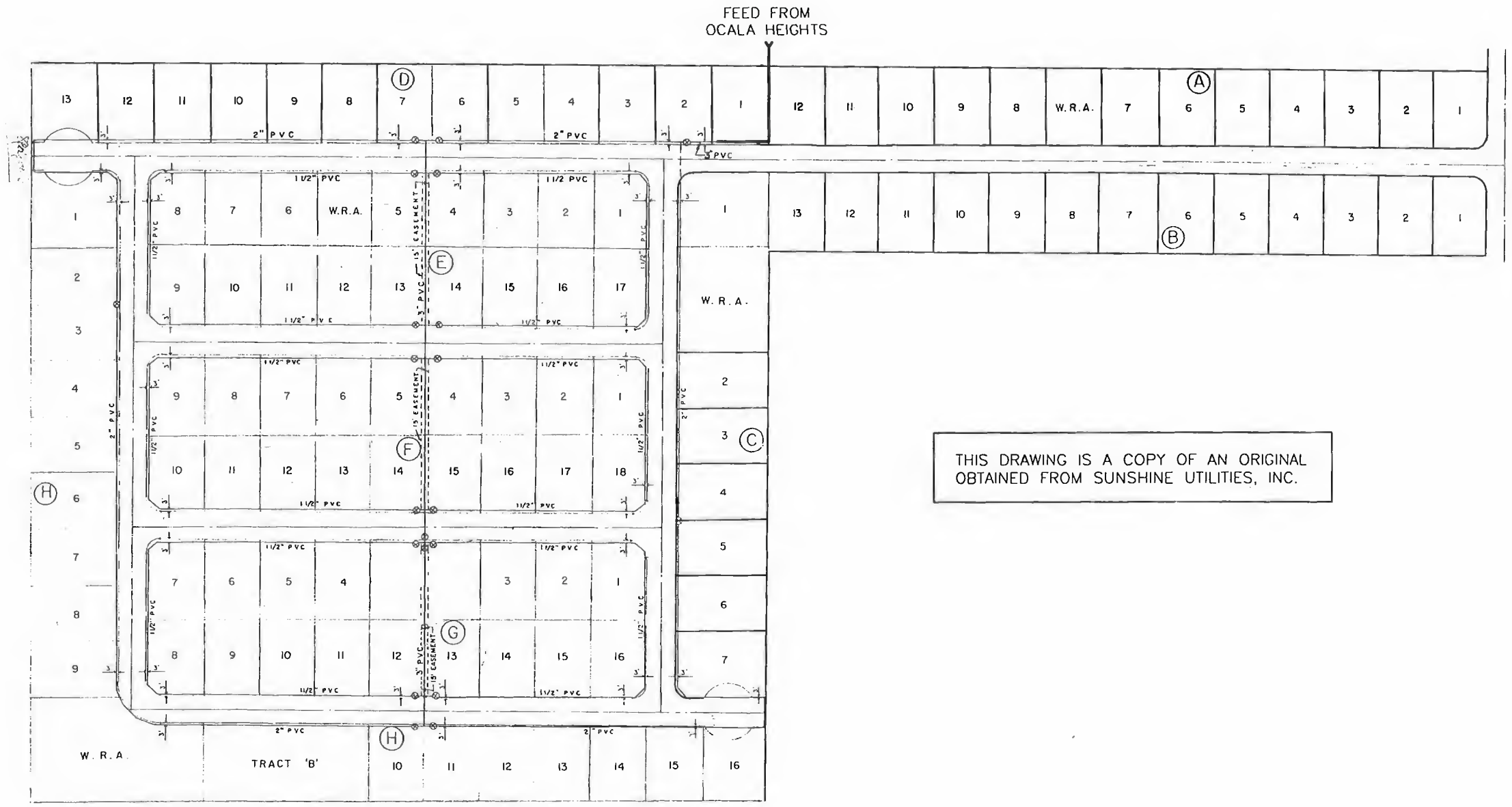
1

Sheet 1 Of 1

0 100 200 400

Scale: 1"= 200'

N



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H.W. BARRINEAU & ASSOCIATES, INC.
8100 SOUTHEAST 17th ST., SUITE 202 FAX (352) 840-0580
OCALA, FLORIDA 34471 (352) 840-0774

REYNOLD'S

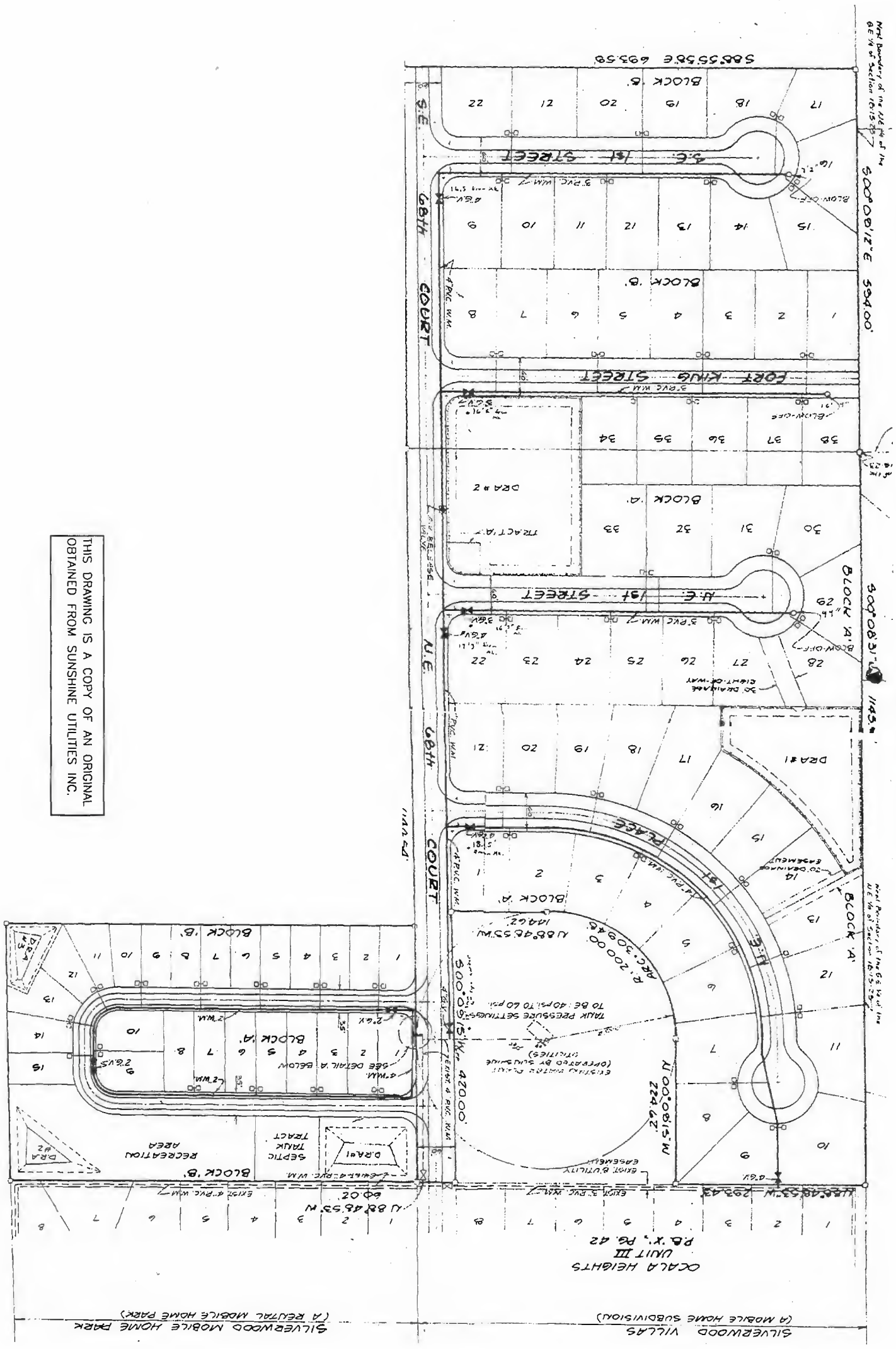
SUNSHINE INDUSTRIES INC.
OCALA, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	11 APR 97	HWB	PWM

Project No. 96356-02

1

Sheet 1 Of 1



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DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9639-02

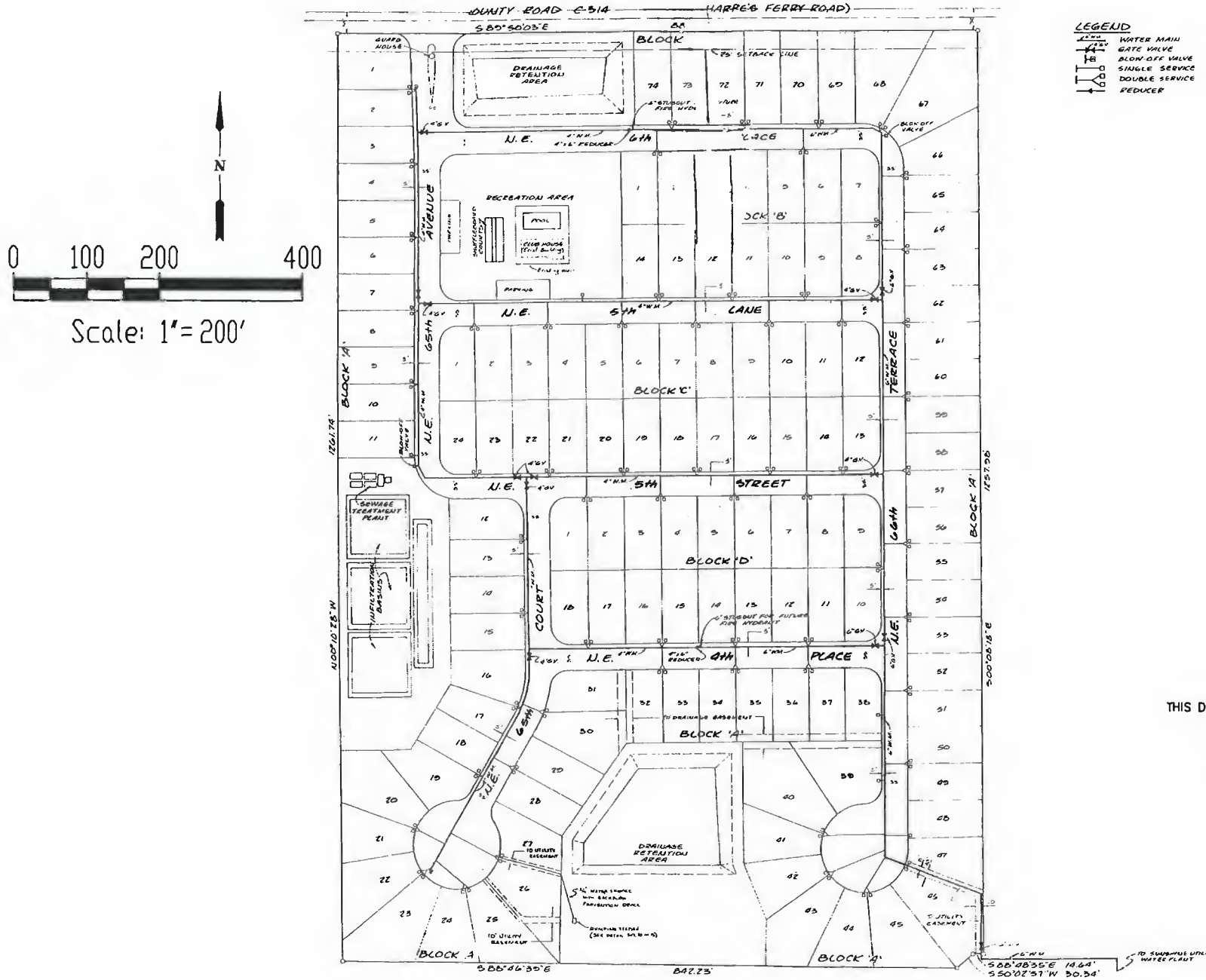
1

Sheet 1 OF 1

SILVERWOOD VILLAS

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



LEGEND

- WATER MAIN
- GATE VALVE
- BLOW-OFF VALVE
- SINGLE SERVICE
- DOUBLE SERVICE
- REDUCER

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FREDERICK BELL
CONSULTING ENGINEERS INC.
OCALA, FLORIDA

H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST., SUITE 202
OCALA, FLORIDA 34471
PH (352) 840-0580
FAX (352) 840-0774

SPANISH PALMS

SUNSHINE INDUSTRIES INC.

FT. KING & MAIN
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Ocklawaha Water Works

WOODARD &CURRAN

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

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

A summary of the main parameters for the Ocklawaha Water Works System are summarized in Table 1-1, below.

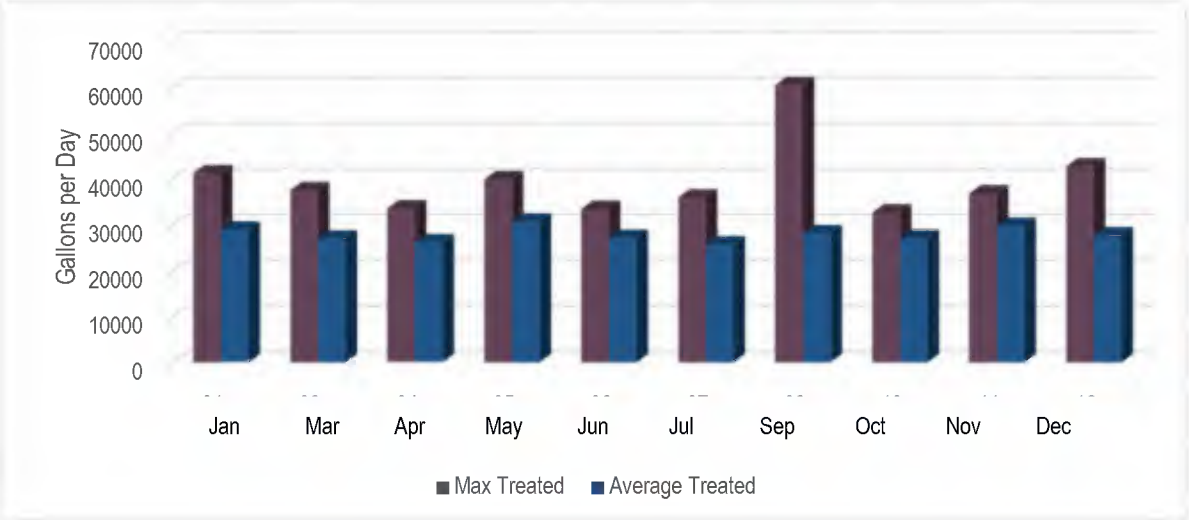
Table 1-1: Ocklawaha Water Works System Information

Water System Name	Ocklawaha Water Works (Ocklawaha Terrace & Ocklawaha Pines)
PWD ID Number	3420939-1 (Ocklawaha Terrace) 3420939-2 (Ocklawaha Pines)
Classification	Community
Plant Category & Class	5D
Street Address	12780 E Hwy 25 (Terrace) 14455 E Hwy 25 (Pines)
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	1,130 (Sanitary Survey)
Number of Service Connections	329 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	27,867 GPD (Terrace) 64,279 GPD (Pines) (2019 Monthly Reporting)
Maximum Day Water Use	60,600 GPD (Terrace) 114,300 GPD (Pines) (2019 Monthly Reporting)
Max-Day Design Capacity	216,000 GPD (Terrace) 91,449 GPD (Pines) (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

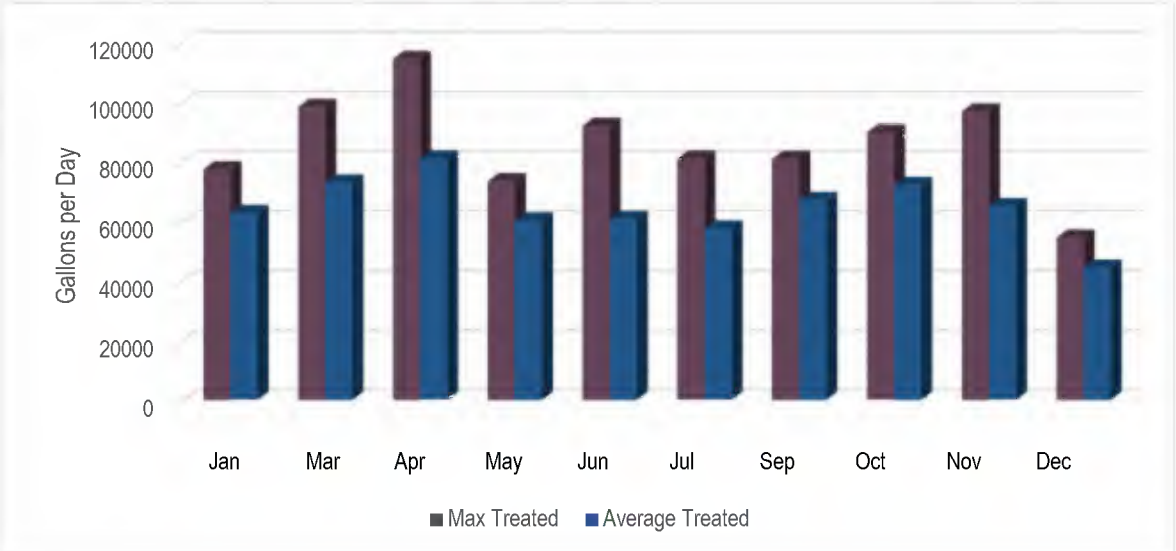
Potable water usage in the Ocklawaha community is depicted in Figure 1-1 and Figure 1-2 in gallons per day (GPD).

Figure 1-1: Ocklawaha Terrace Water Works Average Water Use 2019



Source: 2019 Monthly Operating Reports

Figure 1-2: Ocklawaha Pines Water Works Average Water Use 2019



Source: 2019 Monthly Operating Reports

The Sanitary Survey notes that the Pines Water Treatment Plant (WTP) exceeded its maximum-day design on several occasions in 2017, which caused the facility to adjust pressures between plants to assure design capacities are not exceeded for the Pines WTP. The 2019 data shows the Pines WTP at times still exceeds the Max-day Design capacity of 91,449 GPD.

2. WATER TREATMENT FACILITY

2.1 Facility Description

Ocklawaha Water Works has two Water Treatment Plants (WTPs) under the same FDEP permit. The two plants are called Ocklawaha Terrace and Ocklawaha Pines.

At Ocklawaha Pines, water is pumped from the well through a 3-inch check valve and a 3-inch Sensus flow meter before flowing into a temporary 5,000-gallon hydropneumatics storage tank. Water flows out of the storage tank and then out to distribution. The well pump turns on at when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the storage tank. There is a 3-inch bypass line for the tank that is normally closed.

At Ocklawaha Terrace, water is pumped from the well through a check valve and 3-inch Master flow meter before flowing into a 5,000-gallon hydropneumatics storage tank and then out to distribution. The well pump turns on when pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the storage tank. There is a 4-inch bypass line for the tank that is normally closed.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Pines Well 1	264 feet deep, 127 GPM	1985 (Sanitary Survey Report)	Poor
Source	Terrace Well 1	Unknown depth, 300 GPM	Unknown	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Pines Hydropneumatic Tank	7,500 gallons, Steel	Approx. 1983 (Tank Inspection Report)	Out of Service
Storage	Terrace Hydropneumatic Tank	5,000 gallons, Steel	2015 (Tank Plate)	Good
Building	Pines Station Building	10 by 6.75 feet CMU building	Unknown	Fair
Building	Terrace Station Building	4 by 6.75 feet wood building	Unknown	Poor

2.1.1 Source

2.1.1.1 Pines WTP

Ocklawaha Pines has one well that is located 5 feet from the storage tank and 6 feet from the pump station building. The entire site is secured by a locked fenced in area. The top of the well casing is 12 inches above grade and within a concrete pad. The well is 264 feet deep with a submersible Sta-rite 127 GPM pump with a 7.5 HP motor. The well has a sample tap and a flapper check valve off the top of the well that is used as a vent, and has a 3-inch Sensus meter, as shown in Figure 2-1 and Figure 2-2. The well was running frequently while onsite because of a failed check valve and waterlogged tank.

Figure 2-1: Pines Well

Figure 2-2: Pines Source Meter

2.1.1.2 Terrace WTP

Ocklawaha Terrace has one well that is located within the locked fenced in area. The top of the well casing is 18 inches above grade and within a concrete pad, as shown in Figure 2-3. The well has one submersible Sta-Rite 300 GPM pump with a 15 HP motor. The well has a sample tap and a flapper check valve off the top of the well that is used as a vent, and a 3-inch Master Meter shown in Figure 2-4. The well casing was not completely sealed and there was an opening on the conduit connection to the well pump, shown in Figure 2-5.

Figure 2-3: Terrace Well

Figure 2-4: Terrace Well Source Meter

Figure 2-5: Terrace Well Condition

There is one potential contaminant within 1,000 feet of the Terrace and Pines site. The potential contaminant is a petroleum storage tank from a gasoline service station and is listed as a low concern level by the FDEP. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank for both WTPs. The chlorine used at both sites is 10.5% strength. At the Pines site, the chlorine is stored in a 240-gallon storage tank and uses a Chemtech diaphragm pump set at 80% stroke. At the Terrace site, the chlorine is stored in a 300-gallon storage tank and uses a 30 GPD Chemtech diaphragm pump set at 60% stroke. The average distribution chlorine residual in 2019 was 3.0 mg/L.

The chlorine pumps turn on when the well pumps are energized. Each chemical pump outlet is wired to the well pump stater.

Table 2-2: Ocklawaha Water Works Chemical Metering Pumps

Chemical Pump	Pines Chlorine	Terrace Chlorine
Number of Pumps	1	1
Brand	Chem- Tech	Chem- Tech
Model	Not legible	X030-XA-AAAFXXX
Size	Not legible	30 GPD

Figure 2-6: Pines Chlorine Treatment

Figure 2-7: Terrace Chlorine Treatment

2.1.3 Storage

2.1.3.1 Pines WTP

The Pines site has a 5,000-gallon temporary storage tank and a 7,500-gallon decommissioned storage tank. The 7,500-gallon steel hydropneumatic storage tank is original to the site, but it is in the process of being removed. The 7,500-gallon storage tank was last inspected in 2013 and was decommissioned before its 5-year inspection was due and the plant is currently using a temporary storage tank.

The 7,500-gallon tank began leaking 2 years ago and Sunshine attempted to repair the leaks with patches while diverting flow into a temporary 5,000-gallon tank. Sunshine representative stated that they abandoned the tank after multiple repairs and had begun taking out large pieces of the tank.

The well currently bypasses the decommissioned storage tank using the existing bypass line and flows into the temporary storage tank. The operating set points for the temporary tank are to turn on the well at 45 psi and turn off the well at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The temporary tank is equipped with a sight tube and pressure gauge for quick reference. The temporary tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The temporary tank is equipped with a portable air compressor connector on the sight tube to inject air if needed.

On May 1, 2019, Sunshine Utilities was issued a construction permit from FDEP to remove the existing failed 7,500-gallon tank and replace it with a 5,000-gallon tank. The permit expiration date is April 30, 2024, and transferable to a new owner only upon FDEP approval, and persons proposing to transfer the permit must jointly apply within 30 days after the sale or legal transfer of ownership. Please see Appendix B for the 2019 Construction Permit. At the time of the site visit, Sunshine Utilities stated they had not purchased a new tank or have a timeframe of the repair.

Figure 2.8 and Figure 2.9 depict the storage tanks.

Figure 2-8: Pines Decommissioned Storage Tank

Figure 2-9: Pines Temporary Storage Tank and Decommissioned Storage tank

2.1.3.2 Terrance WTP

The Terrace plant has a 5,000-gallon hydropneumatic storage tank on-site. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line, a 4-inch tank drain located off the side of the tank, and a 2-inch tank drain located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off the well at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference, and the pressure recorded during the site inspection was 40 psi. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup. The tank was constructed in 2015 and is due for its first formal 5-year tank inspection. Figure 2-10 is a view of the Terrace WTP.

Figure 2-10: Terrace Storage Tank and Station Building

2.1.4 Pump Station Buildings

2.1.4.1 Pines WTP

The Pines WTP has a 10-foot by 6.75-foot CMU building with a wooden roof. The building has a doorway with a width of 41 inches but has no door. The mortar between the CMU bricks is beginning to fail on many portions of the building and does not offer total protection from rain or insects. The site is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite.

Figure 2-11: Pines Pump Station Building

2.1.4.2 Terrace WTP

The Terrace WTP has a 4-foot by 6.75-foot wooden building. The building has a single door that opens out with a width of 32 inches. The building had no evidence of roof leaks but had some evidence of mouse droppings inside the building. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite. The building is in poor condition with corrosion on the door and some evidence of moisture; however, it does not store anything inside other than a logbook and electrical outlet. The building is shown in Figure 2-8, and the corrosion on the door is shown in Figure 2-10.

Figure 2-12: Terrace Pump Station Door

2.1.5 Back-Up Power

There is no emergency generator onsite or quick-connect for a portable generator at the Terrace site. The Pines site has a 12 kW Briggs and Stratton emergency generator unit onsite to power the well pump if there is an interruption in power supply (Figure 2-13). The generator does not have an automatic exerciser, and the site is equipped with an automatic transfer switch. The generator runs on propane and is supplied by a 120-gallon propane tank. The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

Figure 2-13: Pines Back-up Power Generator

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There were no water quality or MCL exceedances reported in the annual drinking water quality report for the previous three years for both the Pines and Terrace sites. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey was conducted on August 16, 2018 and the report noted one deficiency related to an exceedance of the maximum day design capacity. The plant was brought back into compliance on September 7, 2018 because Sunshine Utilities adjusted the system pressures between the two plants to ensure that the maximum capacities are not exceeded.

Please refer to Appendix E for the Sanitary Survey Report. According to the Florida Department of Environmental Protection's database, the Ocklawaha Water Works plants have received 13 violations within the last 10 years. All the violations were related to late or missing monitoring and reporting. The most recent return to compliance date is February 3, 2020.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the sites, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The buildings onsite have been subject to degradation and general weathering over time. The buildings also offer little protection from weather and tampering and there is no door at the Pines Pump Station Building. It is recommended that the buildings be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-14), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended that a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-14: Pines WTP Well Pump Starter

2.3.2 Source of Supply

The 3-inch check valve on the Pines well has failed causing water to back-feed into the well, and the well pump was turning on frequently. The check valve should be replaced.

The Terrace WTP well has a 3-inch Master meter that is not compatible with the Mission Monitoring System. The meter should be changed out with a meter that has a 4-20 mA connection so it could we wired into the Mission Monitoring System.

The well pump wires for the Terrace well were exposed. These should be sealed in a conduit to prevent contamination.

2.3.3 Water Treatment and Pumping

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there is a 240-gallon tank located outside at the Pines WTP, and a 300-gallon tank located outside at the Terrace WTP. These containers should be stored on a secondary containment pallet that contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005.

In order to install secondary containment for the chemical storage, a structure will have to be installed to protect the secondary containment from filling with rainwater. In addition, a structure around the chemical drums will offer an added protection from damage. This can be accomplished by changing out the bulk tanks with a more compact 275-gallon intermediate bulk container (IBC), and storing the chemicals in an enclosed container such as the PIG IBC Roll Top Hardcover Spill Pallet, with a 360-gallon containment capacity. An example is shown in Figure 2-14.

Figure 2-15: PIG 275-gallon IBC and Enclosure

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine at both sites. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration basin will likely need to be installed for the discharge water.

The Pines hydropneumatic tank is out of service with a temporary tank on site. A new permanent hydropneumatic tank should be installed. The tank supports also need to be replaced with the new tank.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1985 and supplies water using a 2 to 6-inch steel and PVC water main in a loop configuration. The loop has gate valves to isolate sections if needed located at most roadway intersections. One blow-off valve was noted on the water distribution map. The system provides the community with potable water only (no fire flow water).

Refer to Appendix F for a map of the water distribution system. Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Ocklawaha Water Works to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-3. The total cost estimate for Triage Repairs at Ocklawaha Water Works is: **$215,600**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$2,000
Upgrade Electrical (Terrace)	$15,000
Upgrade Electrical (Pine)	$20,000
Mission Monitoring at Well	$20,000
Total	$57,000

Table 4-2: Source of Supply Triage Repairs

Recommendation	Estimate
Replace Check Valve	$1,000
Total	$1,000

Table 4-3: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$7,600
Install New Pressure Tank (Pines)	$150,000
Total	$157,600

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Ocklawaha Water Works to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-5 through 4-6. The total cost estimate for Capital Improvements at Ocklawaha Water Works is: **$134,000**.

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$7,000
Total	$7,000

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$18,000
Transmitters and Other Monitoring Equipment	$5,000
Total	$23,000

Table 4-5: Water Distribution System Capital Improvements

Recommendation	Estimate
Automatic Flushing Units	$54,000
Total	$54,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$50,000
Total	$50,000

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

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

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

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:

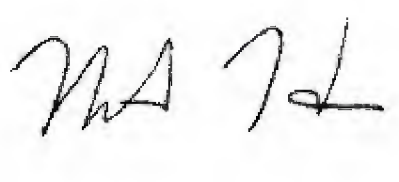
ftp://ftp.dep.state.fl.us/pub/incoming/Central_District/Water%20Electronic%20Applications.

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

Table of Contents

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:

_____

☐ 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: 6/22/20

☒ **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

PWS ID # 3420939
Date 8/16/18

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

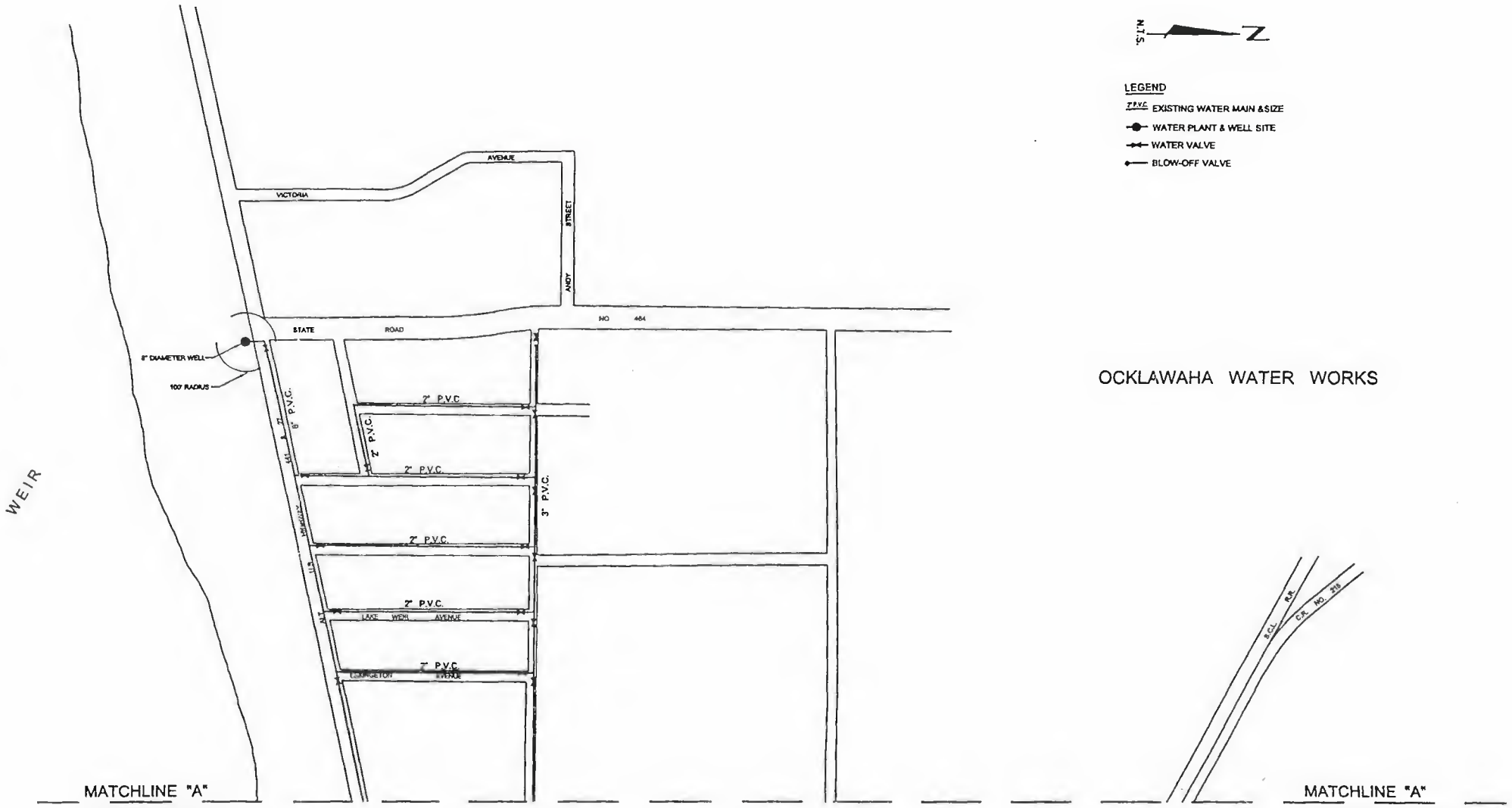
expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with 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

- 2"P.V.C. EXISTING WATER MAIN & SIZE
- WATER PLANT & WELL SITE
- WATER VALVE
- BLOW-OFF VALVE

OCKLAWAHA WATER WORKS

OCKLAWAHA WATER WORKS

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST, SUITE 802
OCALA, FLORIDA 34471
PHX (352) 840-9568
(352) 840-9774

FACILITY WATER SYSTEM

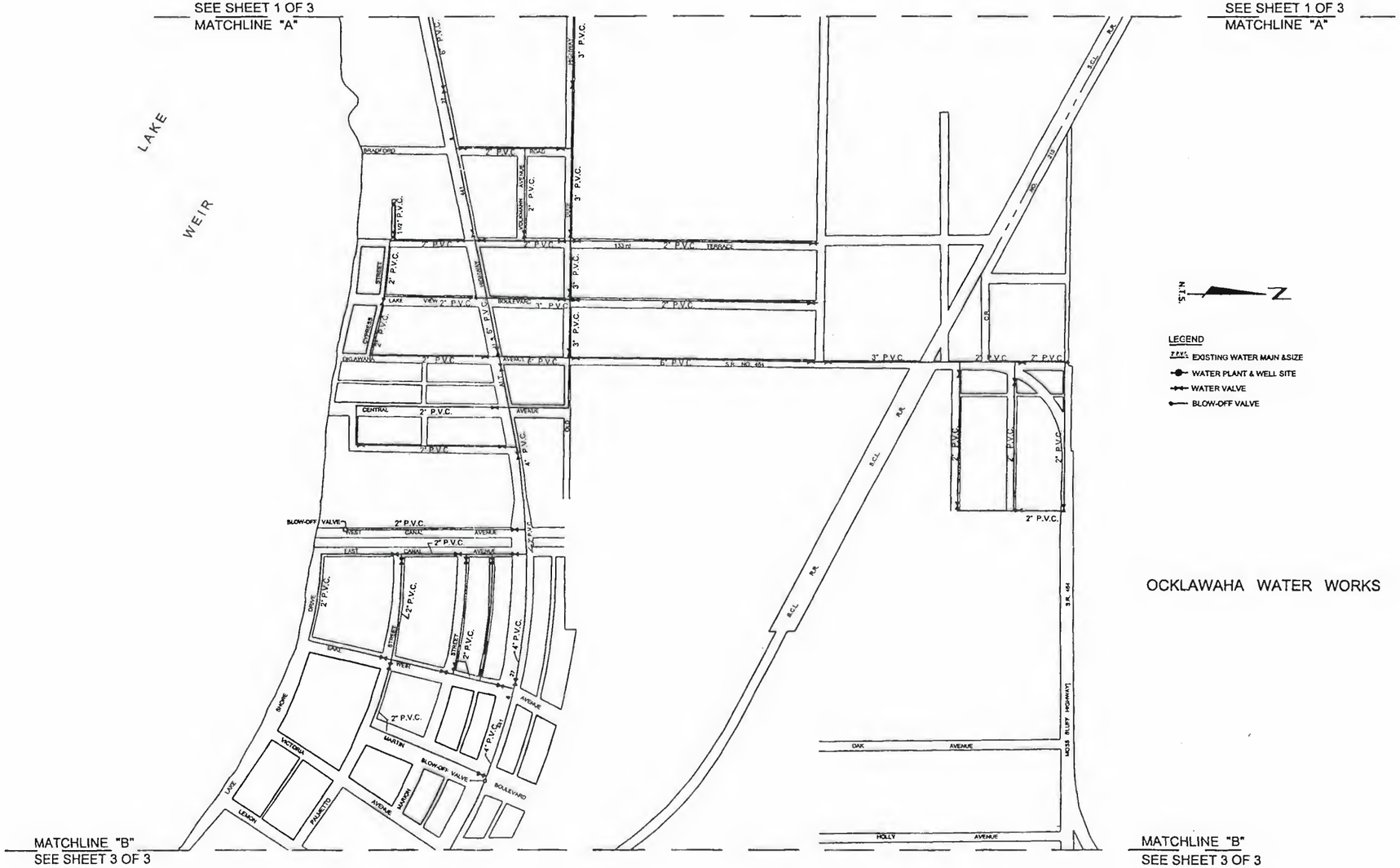
OCKLAWAHA WATER WORKS
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	15 JUL 99	RJW	SAD

Project No. 9636-02

SEE SHEET 1 OF 3
MATCHLINE "A"

SEE SHEET 1 OF 3
MATCHLINE "A"



OCKLAWAHA WATER WORKS

MATCHLINE "B"
SEE SHEET 3 OF 3

MATCHLINE "B"
SEE SHEET 3 OF 3

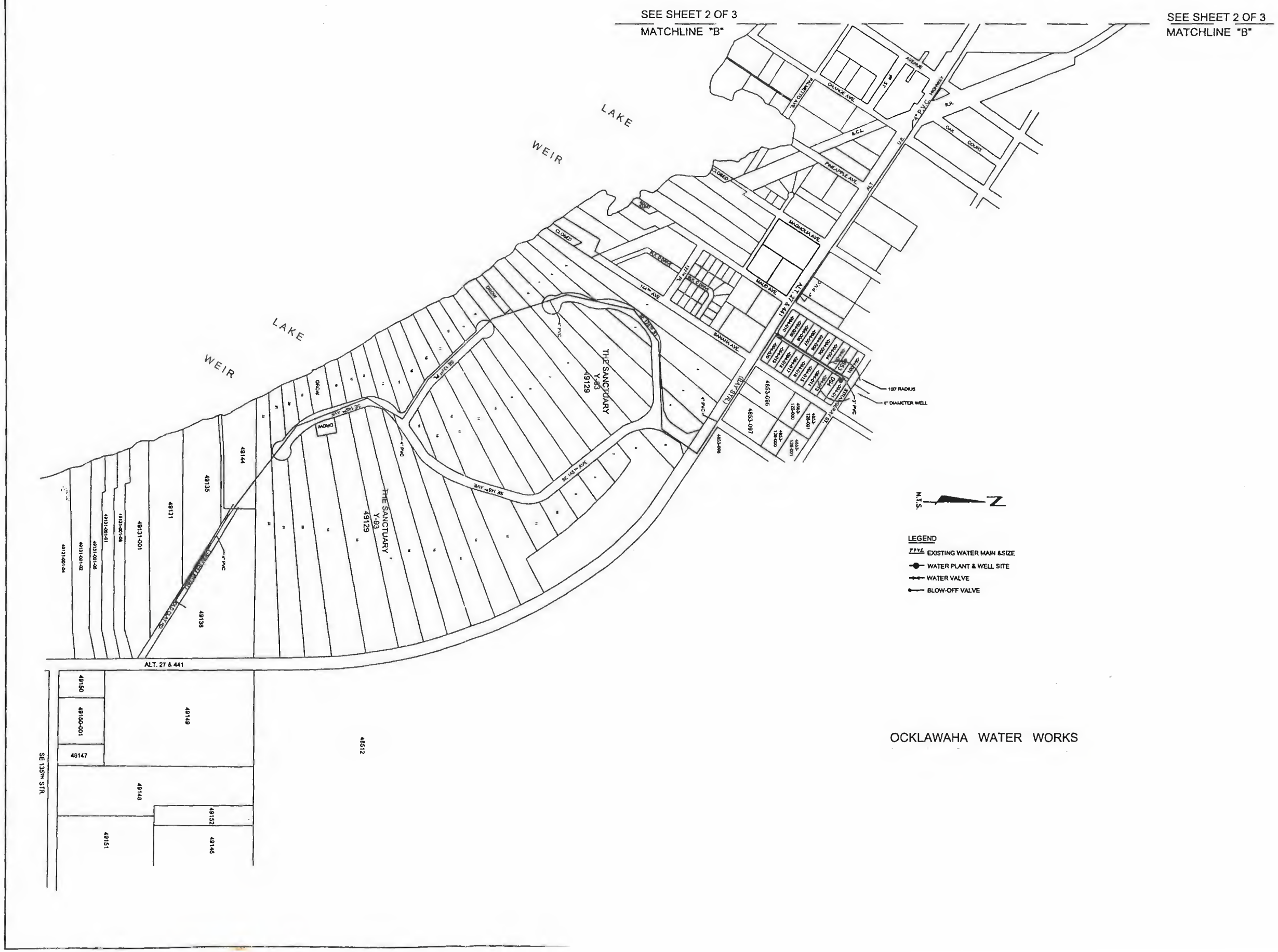
H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST. SUITE 802
OCALA, FLORIDA 34471
FAX (352) 840-2588
(352) 840-2774

FACILITY WATER SYSTEM
OCKLAWAHA WATER WORKS
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRN	CHK	DATE	DESCRIPTION
SAO	RJW	13 JUL 99	ORIGINAL ISSUE

Project No. 9636-02

2



OCKLAWAHA WATER WORKS

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

FACILITY WATER SYSTEM

OCKLAWAHA WATER WORKS
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRN	CHK	DATE	DESCRIPTION
SMO	RJW	15 JUL 99	ORIGINAL ISSUE

Project No. 9636-02

3

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Ponderosa Pines

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Ponderosa Pines. A summary of the main parameters for the water system are summarized below in Table 1-1.

Table 1-1: Ponderosa Pines System Information

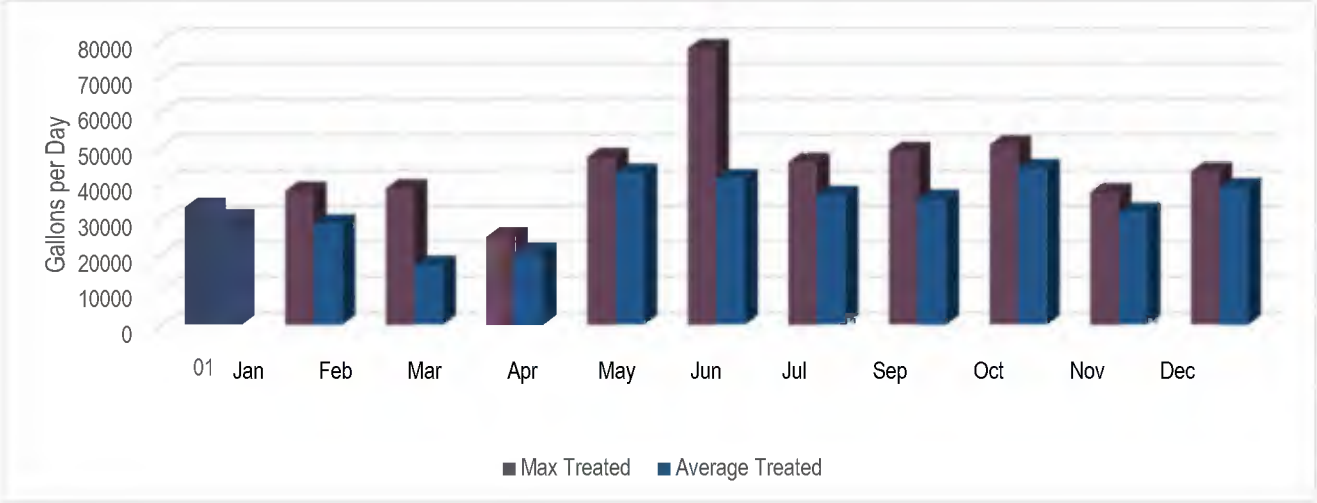
Water System Name	Ponderosa Pines (2 WPS)
PWD ID Number	3424062-1 & 3424062-2
Classification	Community
Plant Category & Class	5D
Street Address	Corner of SE 185th Terrace and SE 20th Place (WTP 1) 18536 SE 21st Lane (WTP 2)
City, State	Silver Springs, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	465 (Sanitary Survey)
Number of Service Connections	186 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	33,131 GPD (WTP 1) 2,332 GPD (WTP 2) (2019 Monthly Reporting)
Maximum Day Water Use	77,600 GPD (WTP 1) 15,000 GPD (WTP 2) (Sanitary Survey)
Max-Day Design Capacity	40,320 GPD (WTP 1) 43,200 GPD (WTP 2) (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Maximum day capacitie for WTP 1 was exceeded multiple times in 2019. FDEP stated that an email from Sunshine Utilities was sent on 3/24/20 that indicated that pressure settings were adjusted to increase usage of WTP 2 to compensate.

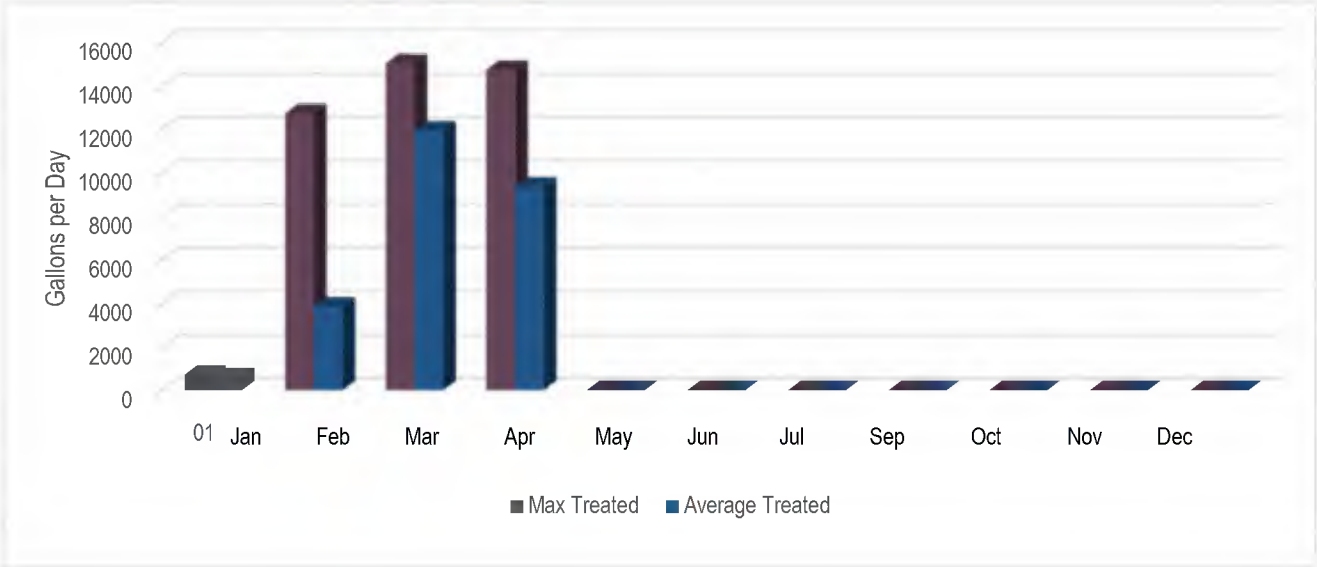
Potable water usage in the Ponderosa Pines community is depicted in Figure 1-1, and Figure 1-2.

Figure 1-1: Ponderosa Pines WTP 1 Average Water Use 2019



Source: 2019 Monthly Operating Reports

Figure 1-2: Ponderosa Pines WTP 2 Average Water Use 2019



Source: 2019 Monthly Operating Reports

2. WATER TREATMENT FACILITY

2.1 Facility Description

Ponderosa Pines has two Water Treatment Plants (WTPs) under the same FDEP permit. The two plants are called Ponderosa Pines WTP 1 and Ponderosa Pines WTP 2.

At WTP 1, water is pumped from the well through a check valve and 2-inch Sensus flow meter before flowing into a 2,000-gallon steel hydropneumatic storage tank and then out to the distribution system. The well pump turns on when pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the storage tank. There is no bypass line available for the water to bypass the storage tank if needed. WTP 1 has an additional 800-gallon storage tank onsite but it has been taken out of service and the connections to the system have been removed.

At WTP 2, water is pumped from the well through a 1.5-inch check valve before flowing into a 2,000-gallon steel hydropneumatic tank. Water flows out of the storage tank through a 1.5-inch Sensus flow meter and then out to distribution. During the inspection, a welding company was onsite patching the storage tank due to leaks, and a temporary storage tank was brought onsite and has been in use for the past few months. Both storage tanks were off due to repair work. The well pump turns on when pressure in the tank is at 45 psi and turns off at 65 psi. Chlorine is injected for disinfection prior to entering the storage tank. There is a 1.5-inch bypass line for the tank that is normally closed.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	WTP 1 Well 1	430 feet deep, 56 GPM	2004 (Sanitary Survey Report)	Poor
Source	WTP 2 Well 1	390 feet deep, 60 GPM	1985 (Sanitary Survey Report)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	WTP 1 Hydropneumatic Tank	2,000 gallons, Steel	Approx. 2003 (Tank Inspection Report)	Fair
Storage	WTP 2 Hydropneumatic Tank	2,000 gallons, Steel	Approx. 1997 (Tank Inspection Report)	Poor
Building	WTP 2 Pump Station Building	8 by 14 feet Aluminum building	Unknown	Fair

2.1.1 Source

2.1.1.1 WTP 1 Source

WTP 1 has one well that is located within the locked fenced in area. The top of the well casing is 17 inches above grade and within a concrete pad. The well is 390-feet deep with a submersible Sta-Rite 60 GPM pump with a 3 HP motor. The well has a sample tap off the top of the well but it has no vent. There is a 2-inch Sensus meter after the well. Well 1 is shown in Figure 2-1.

Figure 2-1: WTP 1 Well

2.1.1.2 WTP 2 Source

WTP 2 has one well that is located within the locked fenced in area, shown in Figure 2-2. The top of the well casing is 8 inches above grade and within a concrete pad. The well is not the required height of at least 12 inches, however FDEP typically accepts the lower height provided there is no evidence of microbial contamination. The well is 430 feet deep with a submersible Sta-rite 56 GPM pump with a 5 HP motor. The well has a screened vent and a sample tap. The well casing was not completely sealed with missing bolts and a loose conduit connection, and has rust and corrosion beginning to form on the casing, shown in Figure 2-3. The pressure switch controlling the well pump did not have a cover.

Figure 2-2: WTP 2 Well

There are no potential sources of contamination within 1000 feet of either of the wells at the water treatment plant. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank for both WTPs. The chlorine strength is 10.5% and mix for both sites is unknown. At WTP 1, the chlorine is stored in a 55-gallon storage tank and mixed in a 55-gallon tank and uses a 7 GPD Chem-Tech diaphragm pump set at 100% stroke. At WTP 2, the chlorine is stored in a 55-gallon tank and mixed in a 30-gallon storage tank and uses a 3 GPD Stenner peristaltic pump. The average chlorine residual in 2019 was 0.6 mg/L. The chemical metering pumps at the facilities are shown in Table 2-2. The treatment at each site is shown in Figure 2-4 and Figure 2-5.

The chlorine pumps will turn on when the well pumps are energized. Each chemical pump outlet is wired to the well pump stater.

Table 2-2: Ponderosa Pines Chemical Metering Pumps

Chemical Pump	Chlorine (WTP 1)	Chlorine (WTP 2)
Number of Pumps	1	
Brand	Chem-Tech	Stenner
Model	X007-XA-AAAAXXX	45MHP2
Size	7 GPD	3 GPD

Figure 2-3: WTP 1 Chlorine Treatment

Figure 2-4: WTP 2 Chlorine Treatment

2.1.3 Storage

2.1.3.1 WTP 1 Storage

WTP 1 has a 2,000-gallon hydropneumatic storage tank on-site. The tank is plumbed with 2-inch isolation gate valves at the inlet and outlet of the tank with no bypass line, and a tank drain located underneath the tank. The operation set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference, and the pressure recorded during the site inspection was 50 psi. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed. In addition to the 2,000-gallon tank, there is a decommissioned 800-gallon tank onsite and all connections to the tank were removed.

The most recent inspection on the WTP 1 storage tank was performed by Enviro-Tech, Inc. in December 2018 and stated that the tank exterior appeared to be in good structural condition and the tank interior appeared to be in fair condition. The report stated that there were significant areas with no coating present on the interior tank surface and there was corrosion noted on the floor and side walls. Please refer to Appendix B for the 2018 Tank Inspection Report.

Figure 2-5: WTP 1 Storage Tank

2.1.3.2 WTP 2 Storage

WTP 2 has a 2,000-gallon hydropneumatic storage tank on-site, shown in Figure 2-6. The tank is plumbed with 2-inch isolation gate valves at the inlet and outlet of the tank with a 2-inch bypass line that is normally closed, and a tank drain located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed. The tank was out of service at the time of inspection because a welding crew was adding a patch on the tank to repair a leak.

The most recent inspection on the WTP 2 storage tank was performed by Enviro-Tech, Inc. in April 2019 and stated that the tank exterior appeared to be in poor condition with a pinhole leak noted and the tank interior appeared to be in fair condition. The report stated that the tank interior appeared to have significant areas with no coating present and corrosion noted on the floor and side walls of the tank interior. Please refer to Appendix B for the 2018 Tank Inspection Report.

After the tank there is a 1.5-inch Sensus meter distribution meter. The meter is shown in Figure 2-7.

Figure 2-6: WTP 2 Storage Tank

Figure 2-7: WTP 2 Meter

2.1.4 Pump Station Building

Ponderosa WTP 1 has an 8-foot by 4-foot aluminum building that is not used. The building has a single door that opens out with a width of 44 inches. The building had no evidence of roof leaks or rodents, but the building has holes in the aluminum siding and provides no protection from rodents and insects. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site.

Ponderosa WTP 1 does not have a pump station building onsite. The site is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite.

Figure 2-8: WTP 1 Pump Station Building

2.1.5 Back-Up Power

There is no emergency generator onsite or quick-connect for a portable generator at either of the Ponderosa Pines sites. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at each site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

Per Florida Administrative Code 62-555.320 (14) (a), this system should be required to have back up power since it services over 350 people and has over 150 connections. In the sanitary survey, the two WTP are noted to be on separate electrical grids and were not given any deficiencies.

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey was conducted on March 13, 2020 and the report stated that no deficiencies were noted at the time of inspection. Please refer to Appendix E for the most recent Sanitary Survey Report. According to the Florida Department of Environmental Protection's database, both Ponderosa Pines plants have received no violations within the last 10 years.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at either site, and floodlights should be installed to allow the sites to be safely accessed at night.

WTP 1 has an aluminum building that is not used. The building had no evidence of roof leaks or rodents, but the building has holes in the aluminum siding and provides no protection from rodents and insects. WTP 2 has no buildings

or structures in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to upgrade or replace the building at WTP 1 and construct a building onsite at WTP 2 to protect sensitive equipment from weather and tampering.

Given the isolated location of the stations, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be needed for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended that a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Source of Supply

The well at WTP 1 should have a screened vent installed. The wires to the well pump should be sealed in a conduit, and were exposed going into the starter box, shown in Figure 2-9.

Figure 2-9: WTP 1 Well Pump Exposed Wires

The casings for the well at WTP 2 was not completely sealed with missing bolts and exposed pump wires. These are potential routes of microbial contamination and should be sealed, which is also required under Florida Administrative Code 64-E.8005(2)(g). The pressure switch was missing a cover, and the cover should be replaced.

Figure 2-10: WTP 2 Well Condition

WTP 2 has a 1.5-inch Sensus meter that will have to be replaced with a meter that have a 4-20 mA connection so that they can report flow to the Mission Monitoring system. WTP 1 has a 2-inch Sensus meter that looks to be compatible.

2.3.3 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The most recent storage tank inspection for WTP 1 noted the exterior of the tank to be in good condition, and the interior to be in fair condition, with significant areas with no coating present. The tank is over fifteen years old, and interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

The storage tank inspection for WTP 2 noted the exterior of the tank to be in poor condition with a pinhole leak noted. At the time of the site visit, the storage tank was drained, and a large patch was being installed by a welder. The interior was noted to be in fair condition, with significant areas with no coating present. The tank is over fifteen years old, and interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion, as noted in the Tank Inspection Report .

There are chemicals stored onsite have no secondary containment to protect against accidental release into the environment. At both plants there is a 55-gallon tank for storing chlorine and a 55-gallon or 30-gallon tank for chlorine mixing. The tanks should be stored on a pallet that can contain the total volume of the chemicals. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005.

To install secondary containment for the chemical storage, a structure will have to be installed to protect the secondary containment from filling with rainwater. In addition, a structure around the chemical drums will offer an added protection from damage. This can be accomplished by changing out all the tanks with a smaller 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG Roll Top Hardcover Spill Pallet, with a 66-gallon containment capacity. An example is shown in Figure 2-11.

Figure 2-11: PIG Roll Top Hardcover Spill Pallet

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1985 and supplies water using a 2-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections if needed located at most roadway intersections. No blow-off valves are noted on the water distribution map. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Ponderosa Pines to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Ponderosa Pines is: **$55,000**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$2,000
Upgrade Electrical	$30,000
Mission Monitoring at Well	$20,000
Total	$52,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$3 400
Total	$3,400

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Ponderosa Pines to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-6. The total cost estimate for Capital Improvements at Ponderosa Pines is: **$152,000.**

Table 4-3: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$18,000
Transmitters and Other Monitoring Equipment	$5,000
Replace Distribution Meter (WTP 2)	$3,500
Interior Tank Coating	$10,000
Total	$36,500

Table 4-4: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter (WTP 1)	$3,500
Total	$3,500

Table 4-5: Water Distribution System Capital Improvements

Recommendation	Estimate
Install Blowoff Valve (WTP 1)	$8,000
Automatic Flushing Units	$54,000
Total	$62,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$50,000
Total	$50,000

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

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

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

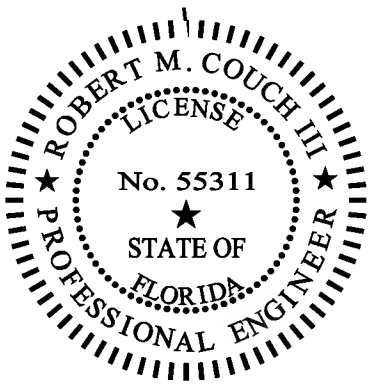
Ponderosa Pines No. 1 Subdivision Tank

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.
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 21:44:58 -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 +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: 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 (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 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

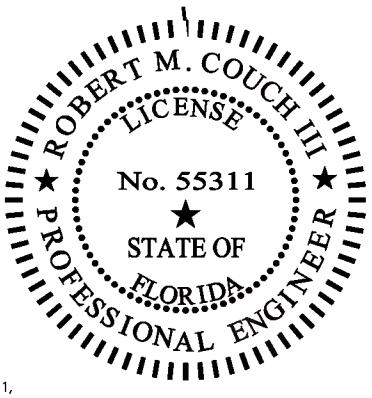
Ponderosa Pines No. 2 Subdivision Tank

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.

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 21:22:59 -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 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: _____

☐ 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

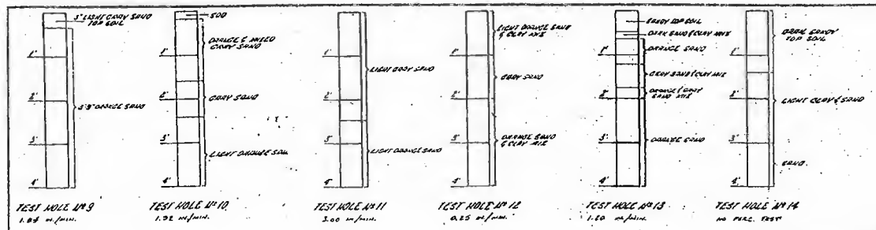
Jill M. Farris
Printed Name

Environmental Manager
Title

4/2/20
Date

APPENDIX F: DISTRIBUTION MAP

PROJECT NUMBER	SHEET NUMBER
FY 90/91-30,300-C	3 OF 17



Water Main
Service Crossing
Main Crossing
Main Changes

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

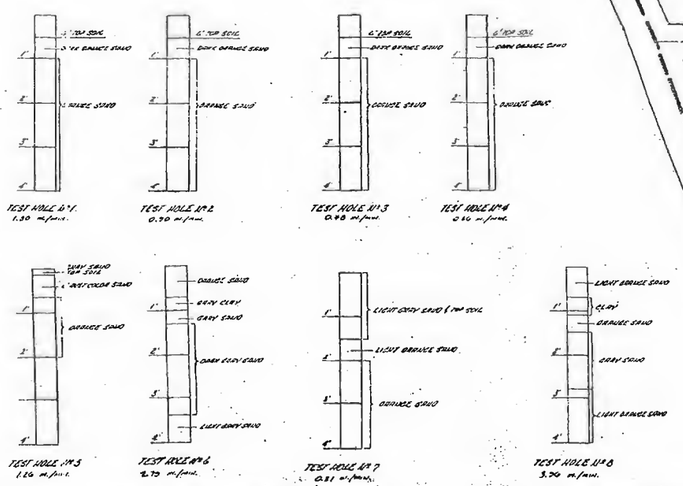
BASIN BOUNDARY

100 YR. FLOOD LINE
AS PER FEMA ZONE A-1 ELEV. 55.00
120-160-0540B JAN. 19, 1983

Address Pink
Acc # Yellow

REVISIONS																				
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION									
												DESIGNED BY			DRAWN BY			HORIZONTAL SCALE:	1" = 100 ft	DRAINAGE MAP
												CHECKED BY			CHECKED BY			VERTICAL SCALE:		
												SUPERVISED BY:						CADD NAME:	ORSHVA3	

MARION COUNTY DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS ENGINEERING DIVISION



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

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Quail Run Subdivision. A summary of the main parameters for the water system are summarized below in Table 1-1.

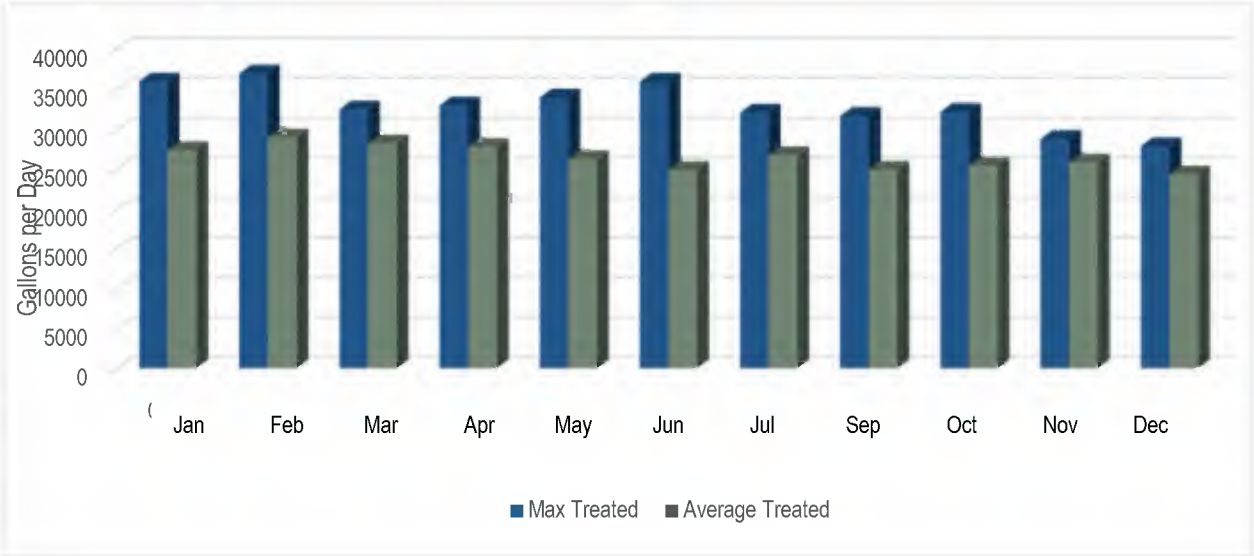
Table 1-1: Quail Run Subdivision System Information

Water System Name	Quail Run Subdivision
PWD ID Number	3424046
Classification	Transient Non-Community
Plant Category & Class	5C
Street Address	1878 SW 107th PL
City, State	Belleview, Florida
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	230 (Sanitary Survey)
Number of Service Connections	92 (Sanitary Survey)
Pending Developments	None (Sunshine Utility)
Average Day Water Use	25,020 GPD (2019 Monthly Reporting)
Maximum Day Water Use	36,900 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	260,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Quail Run community is depicted in Figure 1-1.

Figure 1-1: Quail Run Subdivision Average Water Use 2019



Source: 2019 Monthly Reporting

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 though a 2-inch meter and a check valve before going into the 3,000-gallon steel hydropneumatic tank. The well turns on when the pressure in the tank is at 45 psi and turns off a 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	Unknown depth, 360 GPM	1980 (Sanitary Survey)	Fair
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	3,000 gallons, Steel	2014 (Tank Plate)	Good

2.1.1 Source

The Quail Run well is located near the tank within a locked fenced in area and is about 25 feet from SW 107th PL. The top of the well casing is 12 inches above grade and within a concrete pad. The well uses one submersible Sta-Rite 360 GPM pump with a 30 HP motor at 230 Volts. The water is pumped from the well through a 2-inch Master meter and a check valve. The well has a sample tap off the top but has no vent. The well is shown in Figure 2-1.

There are no potential sources of contamination within 1000 feet of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is unknown and there is a 50-gallon drum for storing chlorine and a 30-gallon drum for chlorine mixing stored in a small plastic shed. The chemical pump is a diaphragm 12 GPD Uni-Dose Pump, set at 60% stroke. The chemical metering pump at the facility is shown in Table 2-2. The average distribution residual in 2019 was 0.7 mg/L.

The chlorine pump will turn on when the pump is energized. The chemical pump outlet is wired to the well pump starter.

Table 2-2: Quail Run Chemical Metering Pumps

Chemical Pump	Chlorine (Well 1)
Number of Pumps	
Brand	Uni-dose
Model	U021-281TT
Size	12 GPD

Figure 2-2: Chlorine Treatment Tank

2.1.3 Storage

The Quail Run water treatment plant has a 3,000-gallon hydropneumatic storage tank on-site, shown in Figure 2-3. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The storage tank was installed in 2014. The storage tank was last inspected by Enviro-Tech, Inc. on November 24, 2020. The tank inspection report stated that the tank interior and exterior appeared to be in good condition with some areas on the interior of the tank where coating had begun to fail, and corrosion was beginning to form. Refer to Appendix B for the Tank Inspection Report.

Figure 2-3: Storage Tank

2.1.4 Pump Station Building

There is no pump station building onsite. The plant is located is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, or PPE available on-site. There is lighting on site. The site layout is shown in Figure 2-4.

Figure 2-4: Pump Station

2.1.5 Back-Up Power

There is no emergency generator onsite or a quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on November 19, 2020 and stated that no deficiencies were noted during the inspection. Please refer to Appendix E for the Sanitary Survey Report. The plant has received three violations within the past 10 years. Two of the violations were for monitoring and reporting of stage 2 disinfectants and disinfection byproducts on November 8, 2018, which the plant returned to compliance on November 26, 2018. The plant violated the total coliform rule by exceeding the maximum contaminant level on November 14, 2014 and returned to compliance on November 16, 2014.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

The plant has no building or structure in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to construct a building onsite to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be needed for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Source of Supply

There is no vent on the well, and it is not clear how the hydropneumatic tank is balanced. If the hydropneumatic tank becomes waterlogged a vent should be installed on the well drop pipe.

The system has a 2-inch source meter prior to the tank which will have to be replaced with a meter that has a 4-20 mA connection so that it can report flow back to the Mission Monitoring system.

2.3.3 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there is a 50-gallon tank for storing chlorine and a 30-gallon tank for mixing chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005.

To install secondary containment for the chemical storage, a structure will have to be installed to protect the secondary containment from filling with rainwater. In addition, a structure around the chemical drums will offer an added protection from damage. This can be accomplished by changing out all the tanks with a smaller 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG Roll Top Hardcover Spill Pallet, with a 66-gallon containment capacity. An example is shown in Figure 2-5.

Figure 2-5: PIG Roll Top Hardcover Spill Pallet

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in the 1978 and supplies water to ten blocks using 2 to 4-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections if needed. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes, and each home as its own aboveground meter located in the right of way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

The distribution map does not show any blowoff valves in the system. A blowoff valve should be installed on the 4-inch stub on the south end of S.W. 18th Terrace. An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Quail Run to normal operating conditions are summarized with cost estimates in Tables 4-1 and 4-2. The total cost estimate for Triage Repairs at Quail Run is: **$16,700**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Upgrade Electrical	$5,000
Mission Monitoring at Well	$10,000
Total	$15,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Total	$1,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Quail Run to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-7. The total cost estimate for Capital Improvements at Quail Run is: **$69,000**.

Table 4-3: Source of Supply Capital Improvements

Recommendation	Estimate
Replace 2-Inch Source Meter	$3,500
Total	$3,500

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Transmitters and Other Monitoring Equipment	$2,500
Total	$11,500

Table 4-6: Water Distribution System Capital Improvements

Recommendation	Estimate
Install Blowoff Valve	$2,000
Automatic Flushing Unit	$27,000
Total	$29,000

Table 4-7: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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

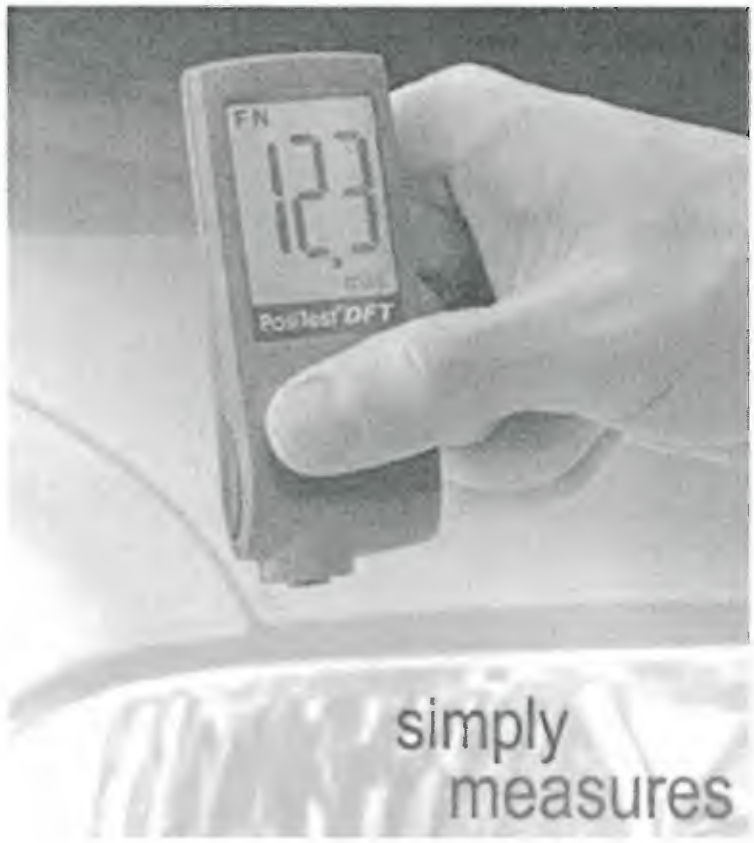
4.2.2 Features

- 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:

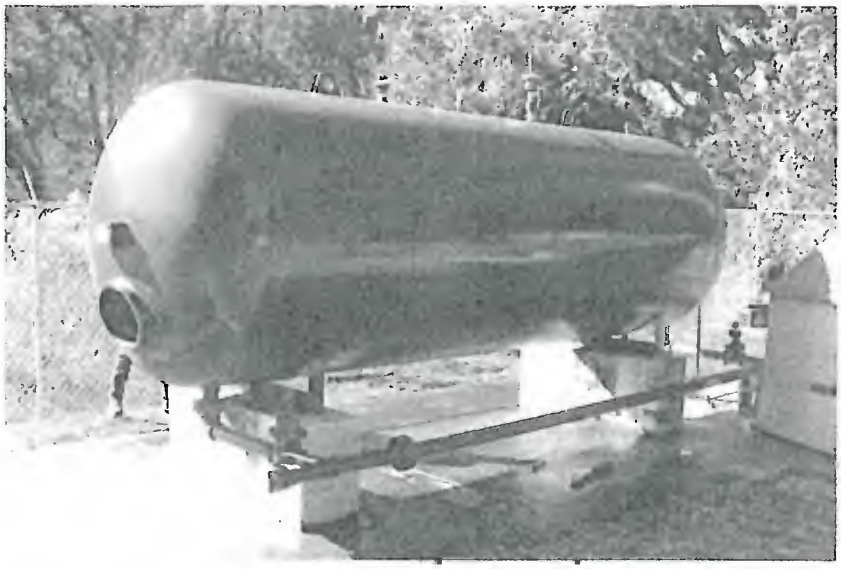
- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected at the next 5 year inspection event, and if necessary, 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.

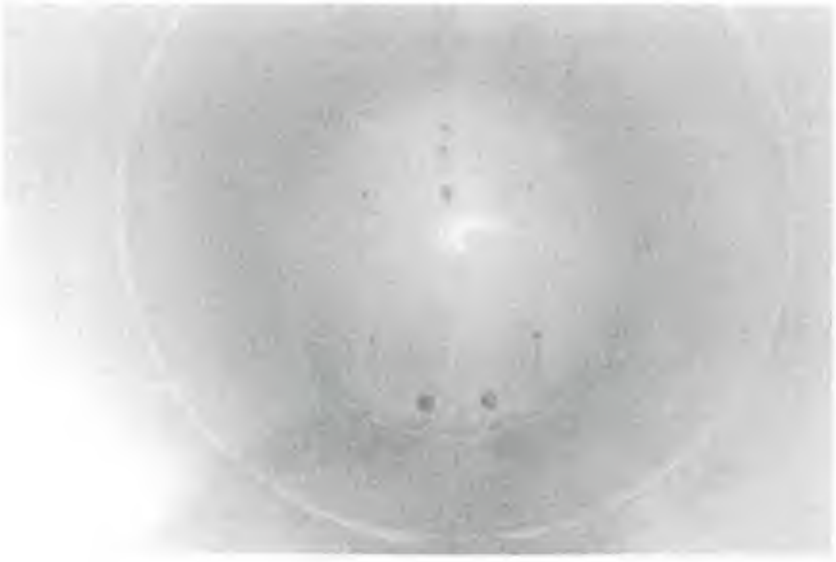
Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the average working pressure does not exceed 50 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

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.
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

Table of Contents

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: 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 CWS. 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)	DEC19	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.]

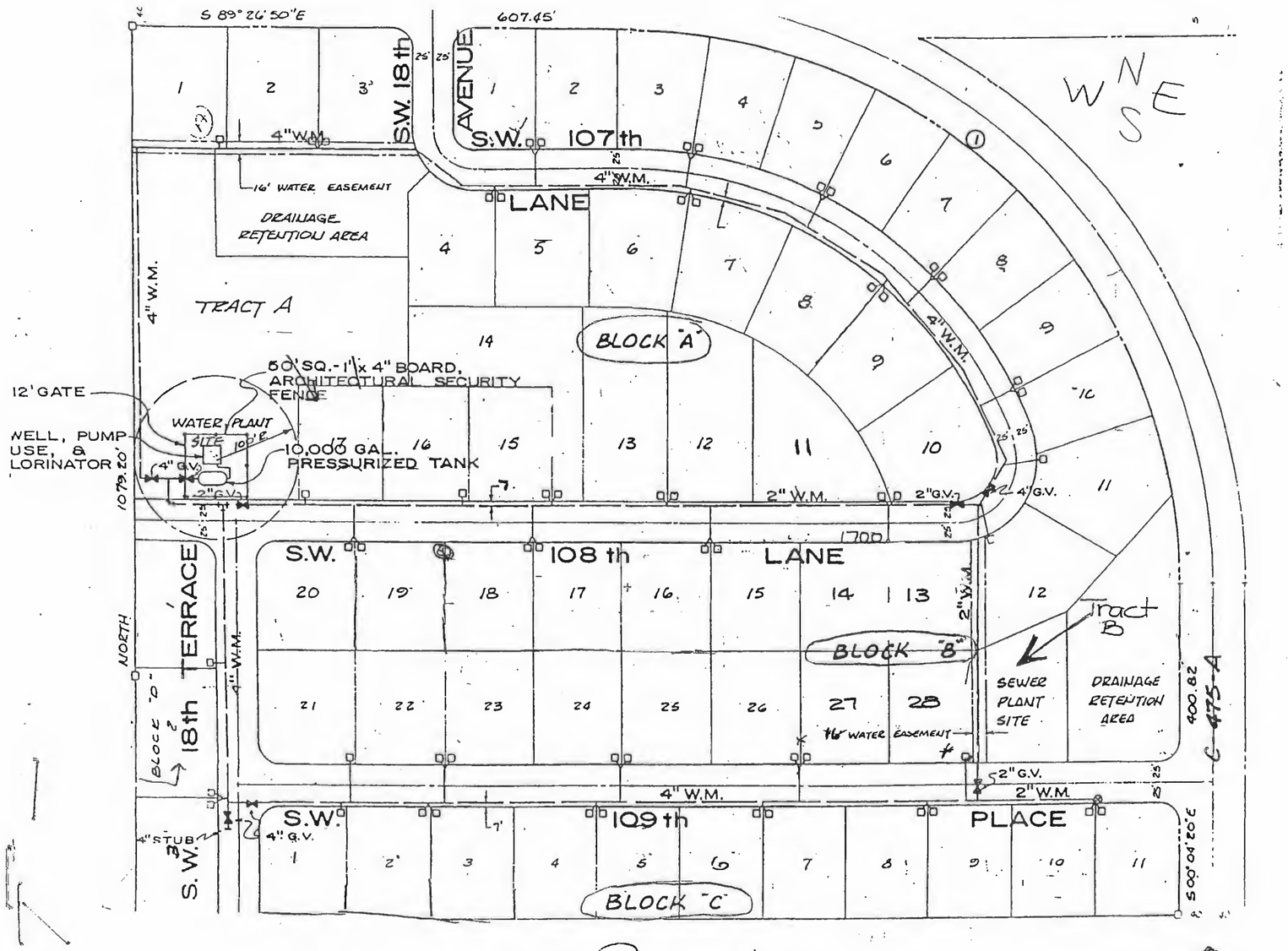
- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

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

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Sandy Acres

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Little Lake Weir. A summary of the main parameters for the water system are summarized below in Table 1-1.

Table 1-1: Sandy Acres System Information

Water System Name	Sandy Acres
PWD ID Number	3421118
Classification	Community
Plant Category & Class	5D
Street Address	16968 SE 251St Ter
City, State	Umatilla, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	607 (Sanitary Survey)
Number of Service Connections	243 (Sanitary Survey)
Pending Developments	Sunshine representative noted there are quite a few empty lots in the service area.
Average Day Water Use	70,851 GPD (2019 Monthly Reporting)
Maximum Day Water Use	99,000 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	230,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Sandy Acres community is depicted in Figure 1-1.

Figure 1-1: Sandy Acres Average Water Use 2019

Source: 2019 Monthly Reporting

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two wells onsite, Well 1 and Well 2. Water is pumped from Well 1 through a swing arm check valve and a 4-inch gate valve. Water is pumped from Well 2 through a 3-inch swing arm check valve and a 3-inch weight lever check valve before joining with the water from Well 1 and flowing through a 4-inch Sensus flow meter. Chlorine is injected for disinfection. There are two points where water flows to distribution, one prior to the hydropneumatic tank and one after the 2,000-gallon steel hydropneumatic storage tank. The well pump turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. There is a 4-inch bypass line for the tank that is normally closed.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	180 feet deep, 230 GPM	1981 (Sanitary Survey)	Fair
Source	Well 2	179 feet deep, 89 GPM	1981(Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	2,000 gallons, Steel	Unknown	Fair
Generator	Sentry Pro	12 kW	Unknown	Poor
Pump Station Building	Wooden with Aluminum Siding	10 by 19-foot building	Unknown	Poor

2.1.1 Source

Well 1 is located within a locked fenced in area near the pump station building and 50 feet from SE 251St Ter. The well is located 3 feet from the back of the building and 16 feet from the fence line. The top of the well casing is 1 inch above grade and within a concrete pad. The well is 180 feet deep with a submersible Sta-rite 230 GPM pump with a 15 HP motor. Well 1 has a sample tap and a screened vent with a flapper check valve on the top of the well. Well 1 acts as the "lead" well, so it supplies most of the community water demands.

Well 2 is located 10 feet from Well 1. The top of the well casing is 4 inches above grade and within a concrete pad. The well is 179-feet deep with a submersible 89 GPM pump with a 5 HP motor. Well 2 has a sample tap and a screened vent on top of the well. The well and piping has no coating and has signs of rust and corrosion. Well 2 acts as the "lag" well, so it only supplies water if the community water demands is greater than what Well 1 can provide. Well 1 and Well 2 are shown in Figure 2-1.

The flow from both wells joins inside the pump station building and flows through a 4-inch Sensus meter shown in Figure 2-2.

Both wells are below the required 12-inch height, however FDEP has noted they will continue to accept the casing height unless there are signs of contamination.

There are no potential sources of contamination within 1000 feet of either of the wells at the water treatment plant. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1 and Well 2

Figure 2-2: Combined Source Meter

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine strength is 10.5%, the mix is 1:4 and is stored in a 55-gallon drum located inside the pump station building with an additional 55-gallon drum used for storing chlorine. There are two chemical pumps, one for each well, however the chemical pump for well #2 was not plugged into an outlet at the time of inspection but was plugged back in after it was brought to the attention of the Sunshine Utilities representative. The outlet for the chemical treatment pumps is not sealed to the conduit and has exposed wires, it should be replaced. Both chemical pumps are a 12 GPD Uni-Dose pump set at 50% stroke. The chemical metering pumps at the facility are shown in Table 2-2. The average distribution residual in 2019 was 1.5 mg/L.

The chlorine pumps will turn on when their respective pump is energized. Each chemical pump outlet is wired to the well pump starter. The outlet is not intact with exposed wires going to the outlet, shown in Figure 2-4.

Table 2-3: Sandy Acres Chemical Metering Pumps

Chemical Pump	Chlorine (Well 1)	Chlorine (Well 2)
Number of Pumps	1	1
Brand	Uni-dose	Uni-dose
Model	U021-281TT	U021-281TT
Size	12 GPD	12 GPD

Figure 2-3: Chlorine Treatment

Figure 2-4: Chemical Pump Outlet

2.1.3 Storage

The water treatment plant has a 2,000-gallon steel hydropneumatic storage tank on-site. The tank is plumbed with 4-inch isolation gate valves at the inlet and outlet of the tank with a 4-inch bypass line that is normally closed, and a tank drain located underneath the tank. The set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference, and the pressure recorded during the site inspection was 55 psi. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. on December 13, 2018 and stated that the tank exterior appeared to be in good structural condition. The interior coating was in fair condition with only slight surface corrosion noted along the tank ridge. Please refer to Appendix B for the 2018 Tank Inspection Report.

Figure 2-5: Storage Tank

2.1.4 Pump Station Building

The pump station building is a 19-foot by 10-foot wood building with aluminum siding primarily used for storage of the chemical treatment, facility logbook, generator, control panels, and piping from the wells to the storage tank. The building has two sections, one is used for the chemical treatment and the other holds the generator, control panels, and piping. The building's wood siding had portions that were failing, and the overall condition of the building was poor. The building is within a fence with a locked gate, and has no floor drains, chemical containment, or PPE on site. There is a fire extinguisher onsite, however it was observed to be empty. There are lights inside the building, but they did not work. The building and building interior is shown in Figure 2-6 and Figure 2-7.

Figure 2-6: Pump Station Building

Figure 2-7: Pump Station Building Interior

2.1.5 Back-Up Power

The Ocala Heights plant has a 12 kW Sentry Pro generator unit onsite to power the well pumps if there is an interruption in power supply, shown in Figure 2-8. The generator is not exercised on a periodic basis, and the site is equipped with an automatic transfer switch. The generator runs on propane and is supplied by a 120-gallon propane tank. During the inspection, the petroleum tank was at 55% storage capacity. The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

Figure 2-8: Back-up Power Generator

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on February 5, 2021 and the report stated that no deficiencies were noted during the inspection. Refer to Appendix E for the most recent Sanitary Survey Report. According to the Florida Department of Environmental Protection's database, the Sandy Acres plant received six violations for disinfectants and disinfection byproducts monitoring and reporting. The most recent violation was on November 8, 2018 and the facility was brought back into compliance November 26, 2018.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

The lighting at the building does not work, and there is no outside lighting. It is recommended the lights inside the building be fixed and floodlights be installed outside the building so it can be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time, the building's wood siding had portions that were failing, and the overall condition of the building was poor. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-4), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

The generator on site is old and will likely be due for replacement. Standby power is required at this site per Florida Administrative Code 62-555.320 (14) (a).

2.3.2 Source of Supply

The conduit wires supplying power to the pump in Well 2 are not sealed and therefore the well casing is not water-tight. This is required under Florida Administrative Code 64-E.8005(2)(g).

Figure 2-9: Exposed Conduit Wires on Well 2

2.3.3 Water Treatment and Pumping

continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 55-gallon drums for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005.

This can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon tanks and storing the chemicals on a pallet such as the PIG PAK 604 containment pallet with a 66-gallon containment capacity and keep it stored in the pump station building. An example is shown in Figure 2-10.

Figure 2-10: PIG 66-Gallon Containment Pallet

The most recent storage tank inspection stated that the interior coating was in fair condition with only slight surface corrosion noted along the tank ridge. The tank interior should be checked again during the next tank inspection to see if the interior should be sandblasted and recoated, as noted in the tank inspection recommendations.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1981 and supplies water using a 2 to 6-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections if needed located at most roadway intersections. The system provides the community with potable water only (no fire flow water). Sunshine utility representatives stated that there are blowoff valves on most dead ends in the system, although these are not shown on the distribution map. Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant but there are many vacant lots.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Sandy Acres to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Sandy Acres is: **$52,000**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$40,000
Mission Monitoring at Well	$10,000
Total	$51,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,000
Total	$1,000

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Sandy Acres to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Table 4-3 through Table 4-6. The total cost estimate for Capital Improvements at Fore Oaks is: **$107,500**.

Table 4-3: General Plant Capital Improvements

Recommendation	Estimate
Generator Replacement	$35,000
Building and Site Repair	$25,000
Total	$60,000

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Interior Tank Coating	$5,000
Transmitters and Other Monitoring Equipment	$2,500
Total	$16,500

Table 4-5: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Total	$27,000

Table 4-6: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$4,000
Total	$4,000

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

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

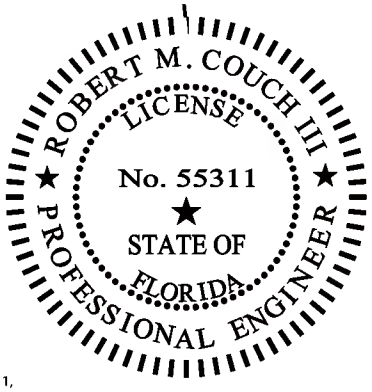
Sandy Acres Subdivision Tank

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:

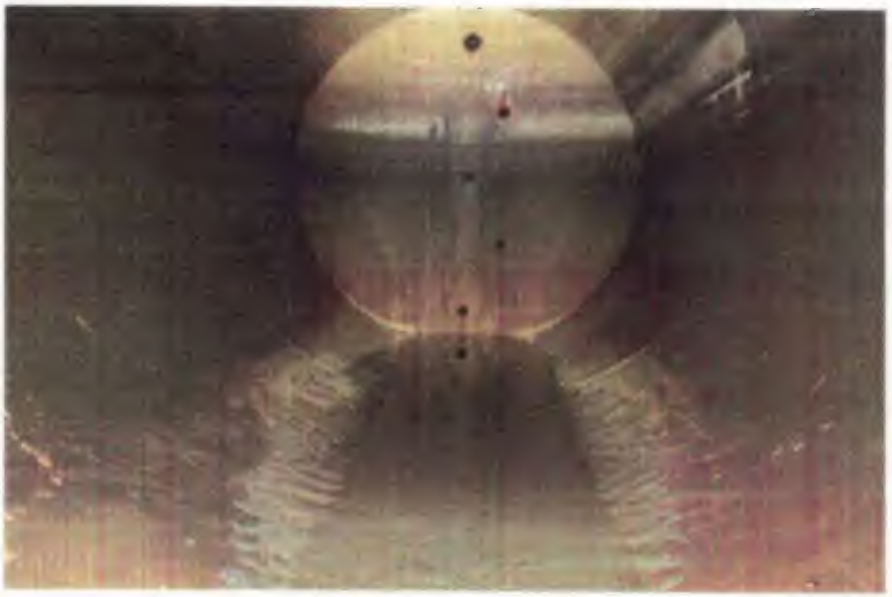
- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if 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

Table of Contents

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:

_____

☐ 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

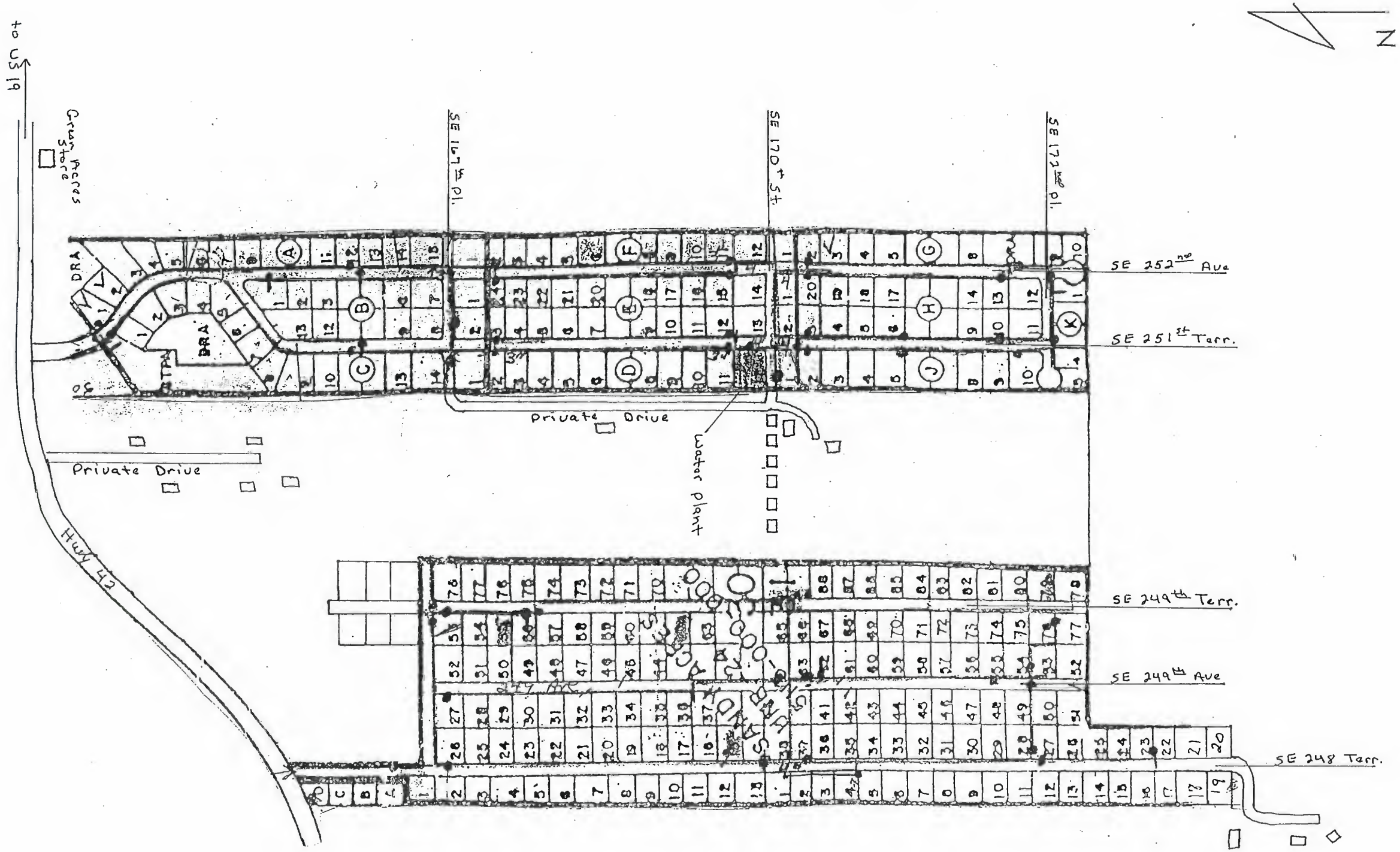
Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

- 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	
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


N
to US 19
Crum Acres Store
SE 167th Pl.
SE 170th St
SE 172nd Pl.
SE 252nd Ave
SE 251st Terr.
Private Drive
Private Drive
Water plant
Hwy 42
SE 249th Terr.
SE 249th Ave
SE 248 Terr.
DRA
DRA
TPH

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Sun Ray Estates

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Sun Ray Estates. A summary of the main parameters for the water system are summarized below in Table 1-1.

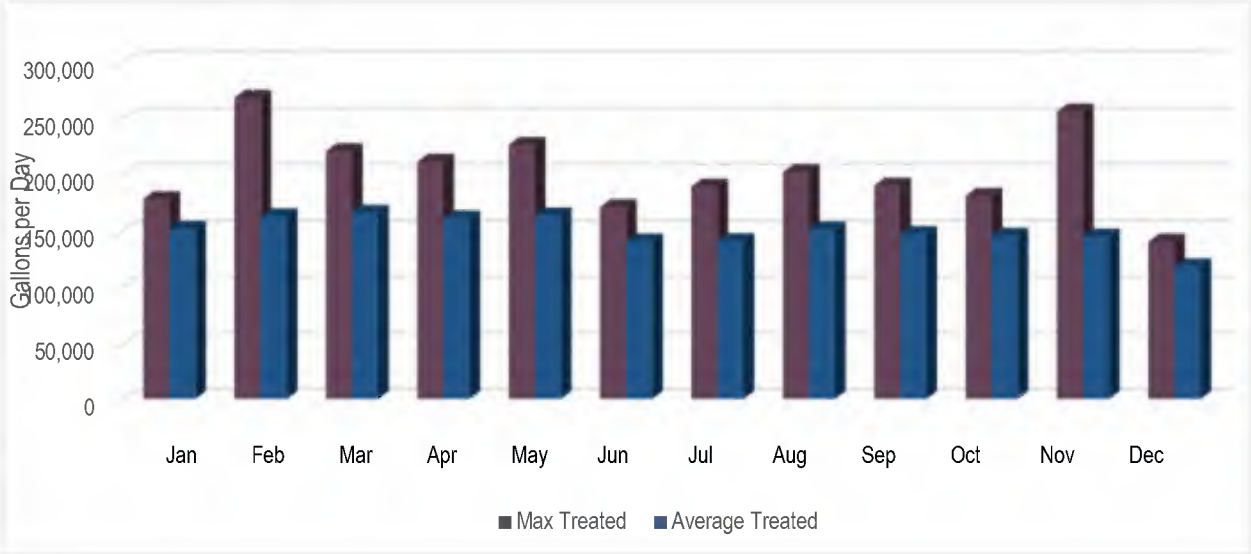
Table 1-1: Sun Ray Estates System Information

Water System Name	Sun Ray Estates
PWD ID Number	3421314
Classification	Community
Plant Category & Class	5C
Street Address	3420 NE 22nd Ct
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	1,999 (Sanitary Survey)
Number of Service Connections	572 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	149,016 GPD (2018 Monthly Reporting)
Maximum Day Water Use	268,000 GPD (2018 Monthly Reporting)
Max-Day Design Capacity	396,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Sun Ray Estates community is depicted in Figure 1-1.

Figure 1-1: Sun Ray Estates Average Water Use 2018



Source: 2018 Monthly Reporting

Data displayed is from 2018 because the facility's flow meter was inoperable in 2019. It was replaced in September 2020.

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two water wells onsite, Well 1 and Well 2. Water from Well 1 and Well 2 each flow through check valves with swing arms before chlorine chemical injection points and then flow is combined before entering into the 10,000-gallon steel hydropneumatic storage tank. The well pumps are called to turn on when the pressure in the tank is at 45 psi and turn off at 65 psi by a pressure switch located at the tank. Chlorine is added to the well water for disinfection prior to entering the tank. There is a 4-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side of the inlet and travels through a 4-inch Neptune flow meter before being delivered to the distribution system. The distribution network has three (3) separate distribution pipes with valves to isolate different subdivisions, shown in Figure 2-1. The distribution pipes were labeled as Jason's Landing, Stone Hill, and Sunray.

Figure 2-1: Distribution Network

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	165 feet deep, 410 GPM	1965 (Sanitary Survey)	Poor
Source	Well 2	160 feet deep, 140 GPM	1972 (Sanitary Survey)	Fair
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	10,000 gallons, Steel	Unknown	Poor
Generator	Generac	34 kW	Unknown	Fair
Building	CMU	17.5 by 19-foot	Unknown	Fair

2.1.1 Source

Well 1 is located within a locked fenced in area 15 feet from the pump station building and 35 feet from NE 22nd Ct. The well is located near the back fence. The top of the well casing is 4-inches above grade and within a concrete pad. This is lower than the required 12-inches however FDEP noted they will continue to accept the current height unless the well shows chemical or microbial contamination. The well is 165 feet deep with a submersible Sta-rite 410 GPM pump with a 25 HP motor. Well 1 has a sample tap and an open vent with a check valve but no screen. Well 1 acts as

the "lag" well, so it only supplies water if the community water demand is greater than what Well 2 can supply. During the inspection, the chlorine injection tubing was not connected to the injection point. The reason for this is unknown. Well 1 is shown in Figure 2-2.

Figure 2-2: Well 1

Well 2 is the located 3 feet from the pump station building and 35 feet from NE 22nd Ct. The well is also located near the back fence. The top of the well casing is 12 inches above grade and within a concrete pad. The well is 160-feet deep with a submersible 140 GPM pump with a 10 HP motor. Well 2 has a screened vent with a check valve and a sample tap off the top of the well. Well 2 acts as the lead well, so it supplies most of the community water demands. Well 2 is shown in Figure 2-3.

Figure 2-3: Well 2

There are no potential sources of contamination within 1000 feet of either of the wells at the water treatment plant. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is added to the well water for the purpose of disinfection prior to the hydropneumatic tank. 10.5% liquid sodium hypochlorite is injected directly into the pipe between the well and the storage tank and is stored in a 165-gallon storage tank located inside the pump station building. There are two chemical pumps, one for each well, however the chemical pump for Well #1 had no tubing attached. The system representative did not know the reason it was removed. Both

wells are supplied by 24 GPD Uni-Dose pumps, set at 75% stroke from Well #2 and 50% stroke for Well #1 The chemical metering pumps at the facility are shown in Table 2-2. The average distribution residual in 2019 was 1.5 mg/L.

The chlorine pumps are interlocked with the well pumps to supply chlorine to the water when the well pumps are energized. Each chemical pump electrical outlets are hardwired to the well pump starters.

Table 2-2: Sun Ray Estates Chemical Metering Pumps

Chemical Pump	Chlorine (Well 1)	Chlorine (Well 2)
Number of Pumps	1	1
Brand	Uni-dose	Uni-dose
Model	UD001-238NU	UD001-238NU
Size	24 GPD	24 GPD

Figure 2-4: Chlorine Treatment

2.1.3 Storage

The water treatment plant has a 10,000-gallon hydro pneumatic storage tank on-site, shown in Figure 2-5. The tank is plumbed with 4-inch isolation gate valves at the inlet and outlet of the tank with a 4-inch bypass line that is normally closed, and a tank drain located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference, and the pressure recorded during the site inspection was 60 psi. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup. A 4-inch Neptune meter is located downstream of the tank to measure drinking water delivered to the distribution system as shown in Figure 2-6.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in January 2019 and stated that the tank exterior appeared to be in fair condition and the tank interior appeared to be in poor condition. The report stated that there were significant areas where the coating had failed, and corrosion had formed on the interior tank surface. Please refer to Appendix B for the 2019 Tank Inspection Report.

Figure 2-5: Storage Tank

Figure 2-6: Distribution Meter

2.1.4 Pump Station Building

The pump station building is a 17.5 by 19-foot CMU building with a wooden roof primarily used for storage of the facility logbook, control panels, and chemical storage tank. The building is accessed by a door that opens outward and is an overall width of 4.5 feet. The building had no evidence of roof leaks but did have evidence of rodents and the building has holes that could allow water or insects to enter the building. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available onsite.

Figure 2-7: Pump Station Building and Generator

Figure 2-8: Pump Station Building Interior

Figure 2-9: Pump Station Building Interior

2.1.5 Back-Up Power

The Sun Ray Estates plant has a 34 kW Generac Generator unit onsite to power the well pumps if there is an interruption in power supply. The site is equipped with automatic transfer switch to energize the generator if distribution power is interrupted. The generator runs on propane and is supplied by two 120-gallon propane tanks. The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There were no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on January 23, 2018 and the report stated that no deficiencies were noted during this inspection. According to the Florida Department of Environmental Protection's database, the Sun Ray Estates plant received six violations for disinfectants and disinfection byproducts monitoring and reporting in 2017 and 2020. The plant was most recently returned to compliance on January 23, 2020.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and floodlights should be installed to allow the site to be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time. The building had evidence of rodents and has holes that could allow water or insects to enter the building. The building also offers little protection from weather and tampering as there is no door. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. A system similar to that as supplied by Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

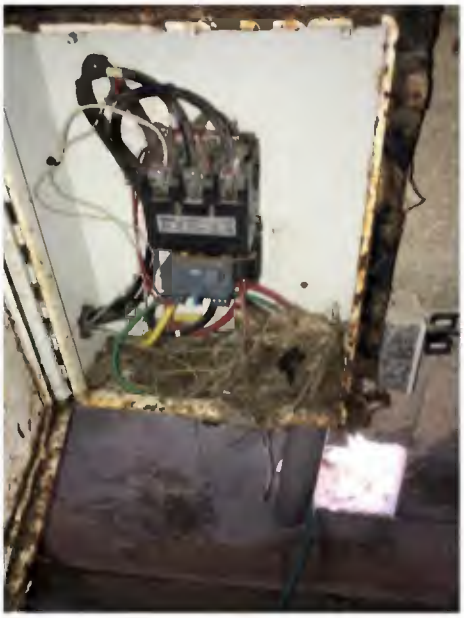
- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-10), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a conceptual level cost estimate.

Figure 2-10: Debris Build-Up in Panel



2.3.2 Source of Supply

The vent on Well #1 should have an insect screen installed over the vent.

2.3.3 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow notification to the operations staff if the chlorine dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The chemical pump tubing for well #1 should be reinstalled.

There are chemicals stored onsite have no secondary containment to protect against accidental release into the environment. Currently there is a 165-gallon storage tank for chlorine. The tank should be stored on a pallet that can contain the total volume of the chemical. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the bulk tanks with a 275-gallon intermediate bulk container (IBC), and storing the chemicals in a pallet such as the PIG IBC Spill Containment Pallet, with a 360-gallon containment capacity. An example is shown in Figure 2-11.

Figure 2-11: PIG IBC Spill Containment Pallet

The hydropneumatic tank inspection report noted that the interior coating was in poor condition with significant areas where the coating had begun to fail, and corrosion had formed on the tank interior surface. The tank is likely over fifteen years old, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was constructed in 1970s and expanded in the 1980s and supplies water through a piping network ranging from 2 to 6-inch PVC in a loop configuration with blowoff valves on dead ends for multiple subdivisions. The distribution system includes numerous gate valves to isolate sections, if necessary, and are generally located at most roadway intersections. The distribution system provides the community with potable water only and does not have fire flow capacity, in terms of supply capacity and storage. Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities staff report that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines extending from the water main. Each home has its own aboveground meter in the public right-of-way adjacent to the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Sun Ray Estates to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Sun Ray Estates is: **$63,600**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1 000
Upgrade Electrical	$50,000
Mission Monitoring at Well	$10,000
Total	$61,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$2,600
Total	$2,600

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Sun Ray Estates to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Table 4-3 through Table 4-5. The total cost estimate for Capital Improvements at Sun Ray Estates is: **$75,500.**

Table 4-3: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Interior Tank Coating	$8,000
Transmitters and Other Monitoring Equipment	$2,500
Replace Distribution Meter	$4,000
Total	$23,500

Table 4-4: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Total	$27,000

Table 4-5: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25 000
Total	$25,000

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

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

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 +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: 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 (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 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:

_____

☐ 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:

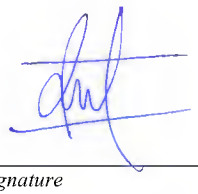
- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  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

Viviana Penuela Useche
Printed Name

Environmental Specialist
Title

2-21-18

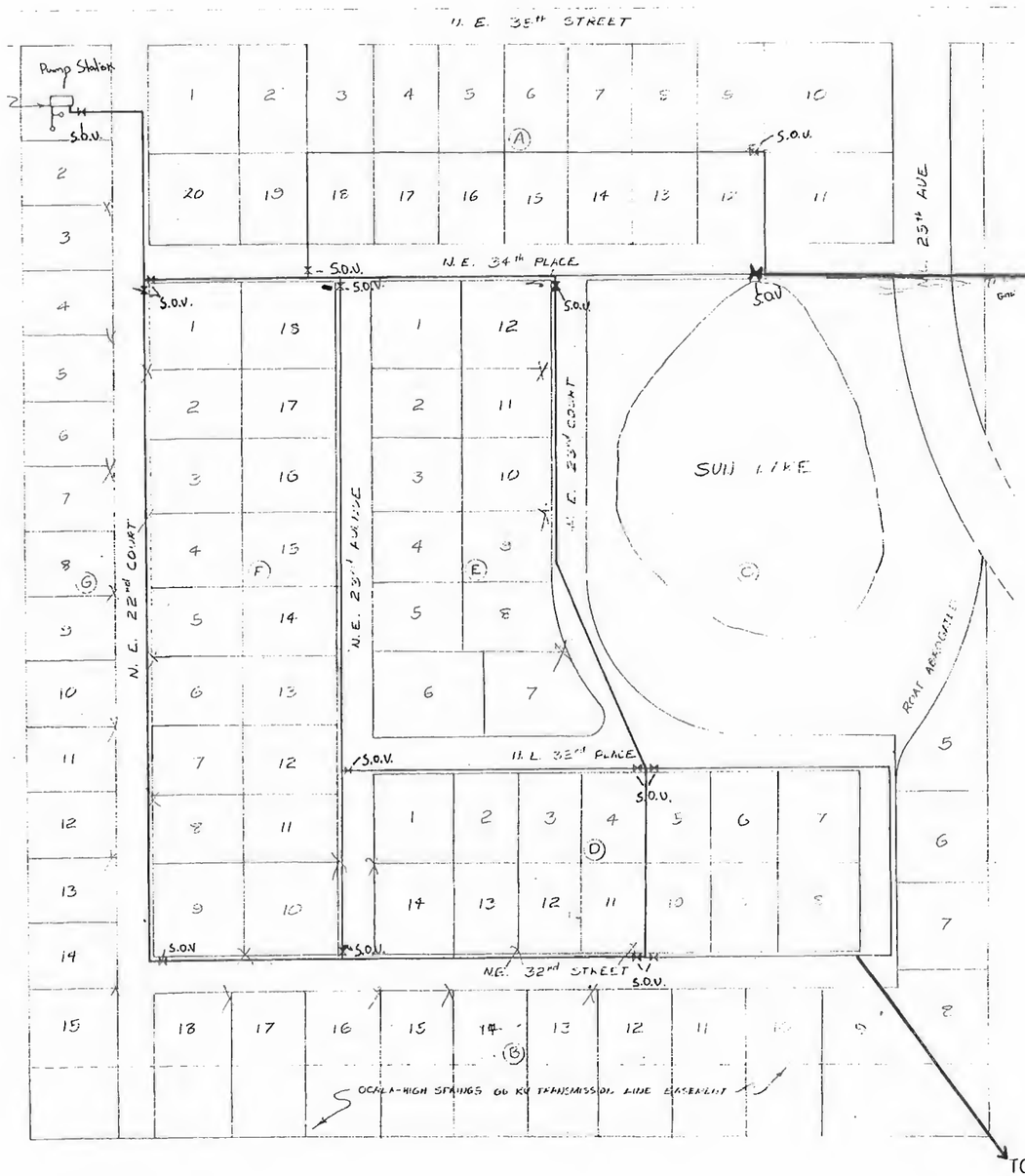
Reviewer Signature

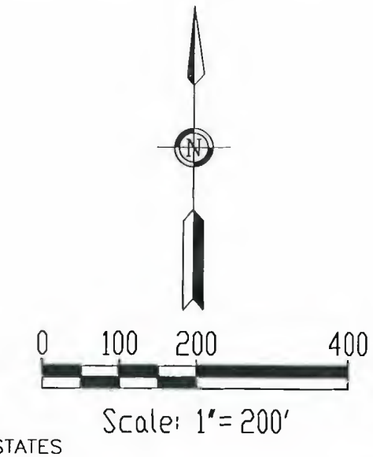
Christine Daniel
Printed Name

Environmental Manager
Title

3/1/18

APPENDIX F: DISTRIBUTION MAP





H.W. BARRINEAU & ASSOCIATES, INC.
5100 SOUTHEAST 17TH ST. SUITE 608 OCALA, FLORIDA 34471
PHONE (352) 840-9696
FAX (352) 840-9774

SUNRAY

SUNSHINE INDUSTRIES INC.
FT. KING & MAIN
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1

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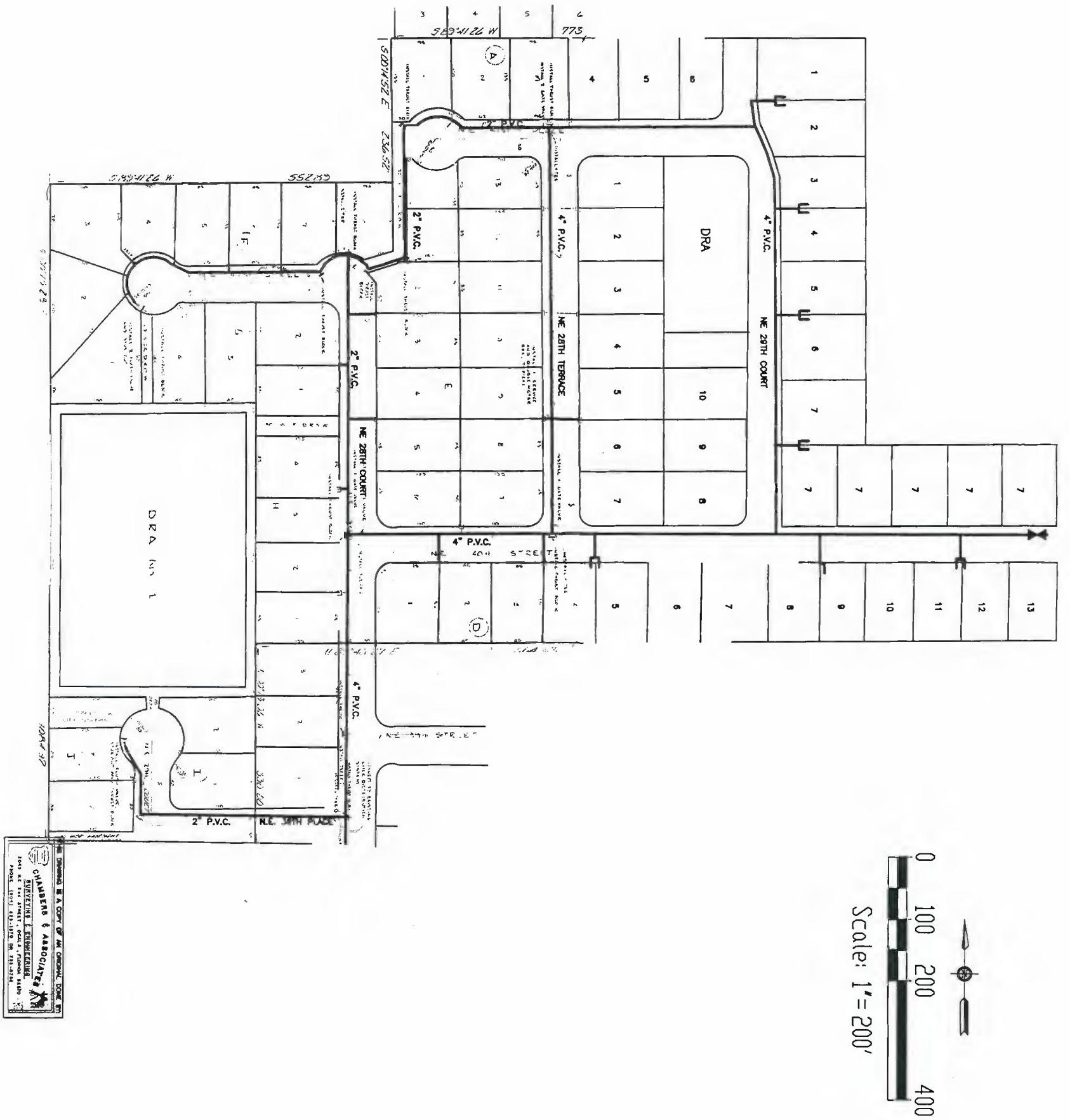

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PMM	HWB	11 APR 97	ORIGINAL ISSUE

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SUGAR PLUM

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OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.

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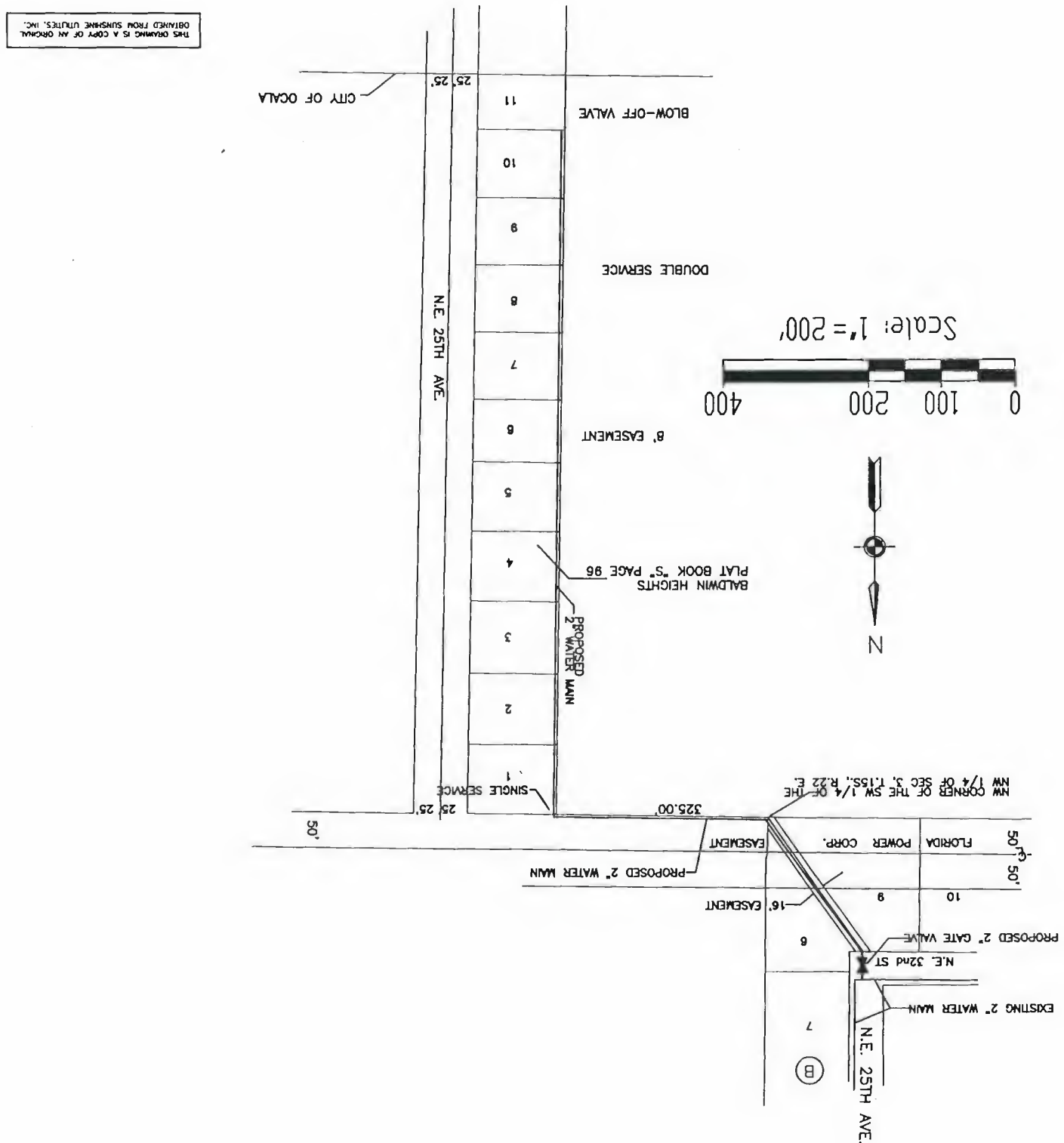

BALDWIN HEIGHTS

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

H. W. BARRINEAU & ASSOCIATES, INC.
8100 SOUTHEAST 17th ST., SUITE 202
OCALA, FLORIDA 34471
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(352) 840-8774

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Project No. 8638-02

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Sheet 1 Of 1

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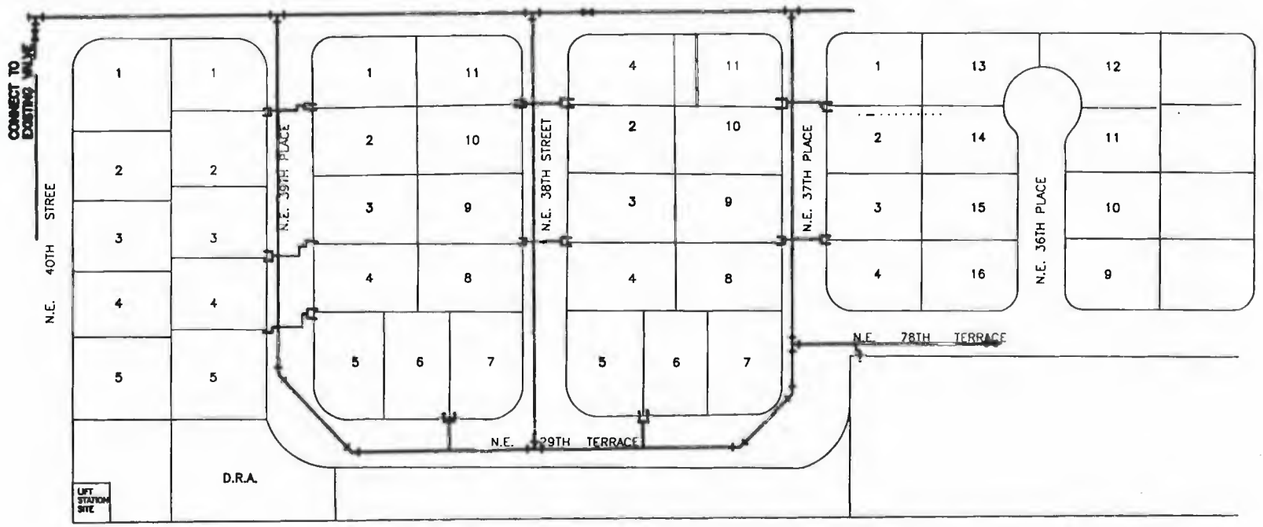
Scale: 1" = 200'



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BOULDER HILL

SUNSHINE UTILITIES, INC.
MARION COUNTY, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

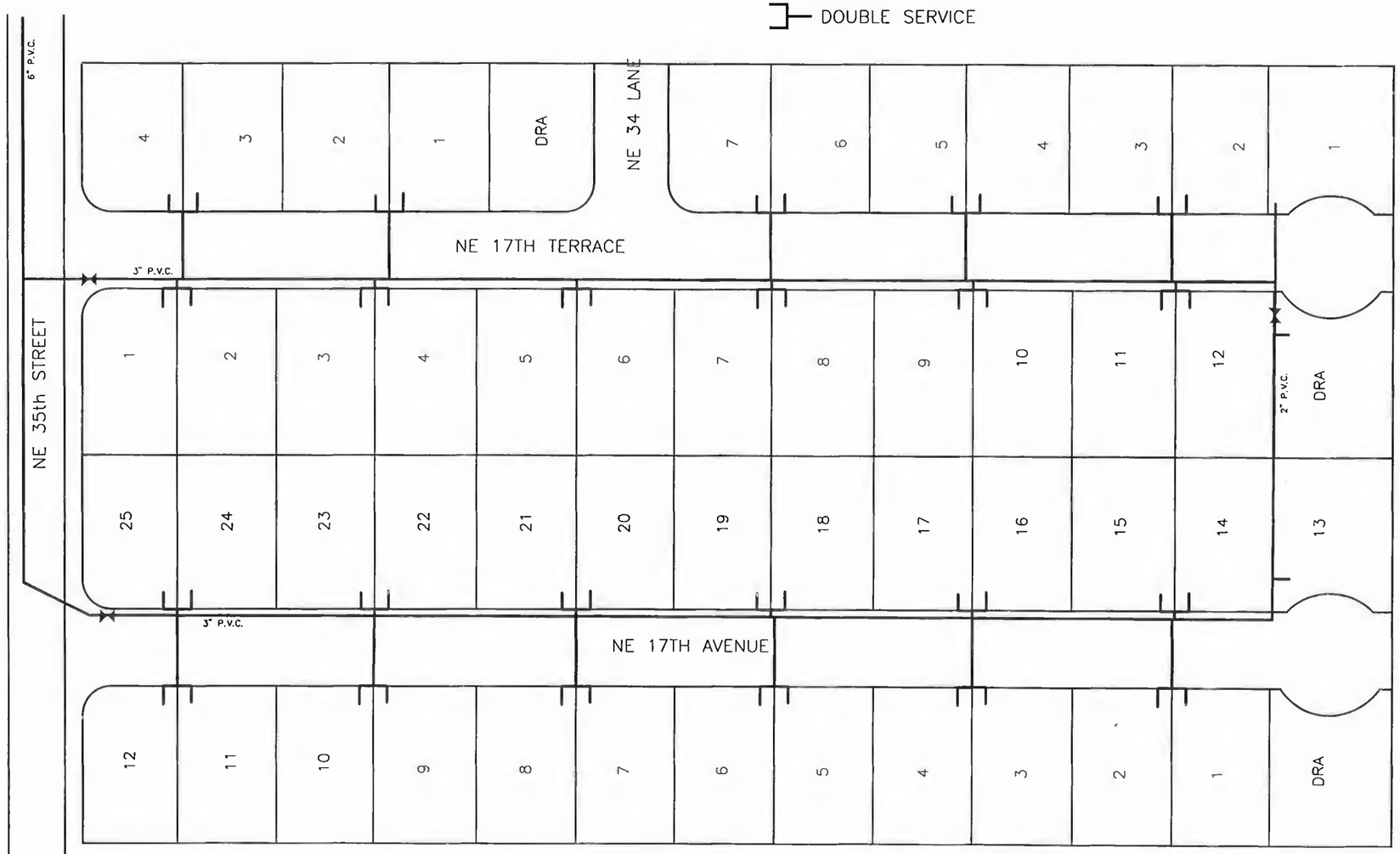
Project No. 9836-02

1

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



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N

0 100 200

Scale: 1"= 100'

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PH (352) 840-6688 FAX (352) 840-6774

JASON'S LANDING

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

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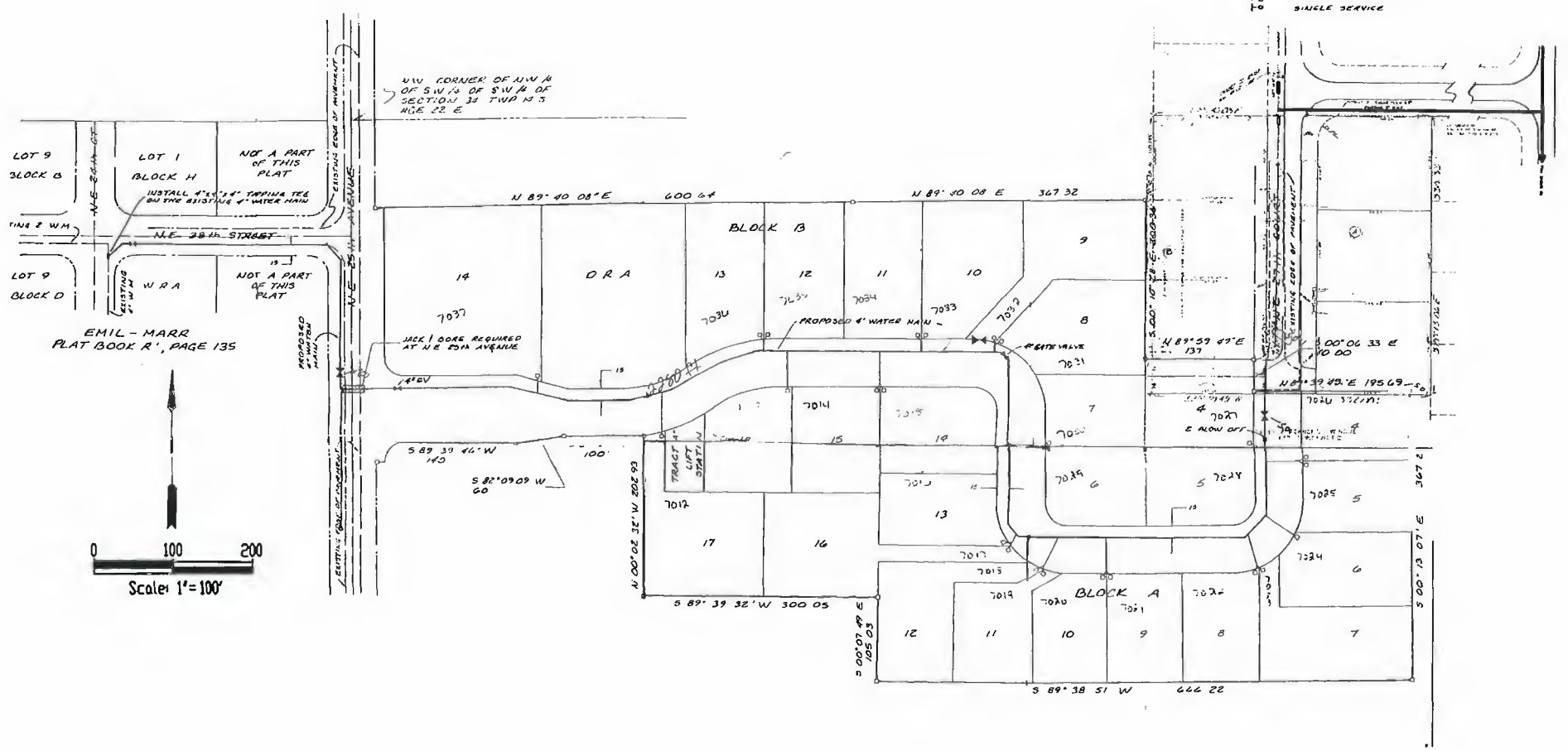
1

Sheet 1 of 1



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PEARL BRITAIN ESTATES

SUNSHINE INDUSTRIES INC.

OCALA, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	11 APR 97	HWB	PWM

Project No. 9636-02

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Sheet 1 Of 1

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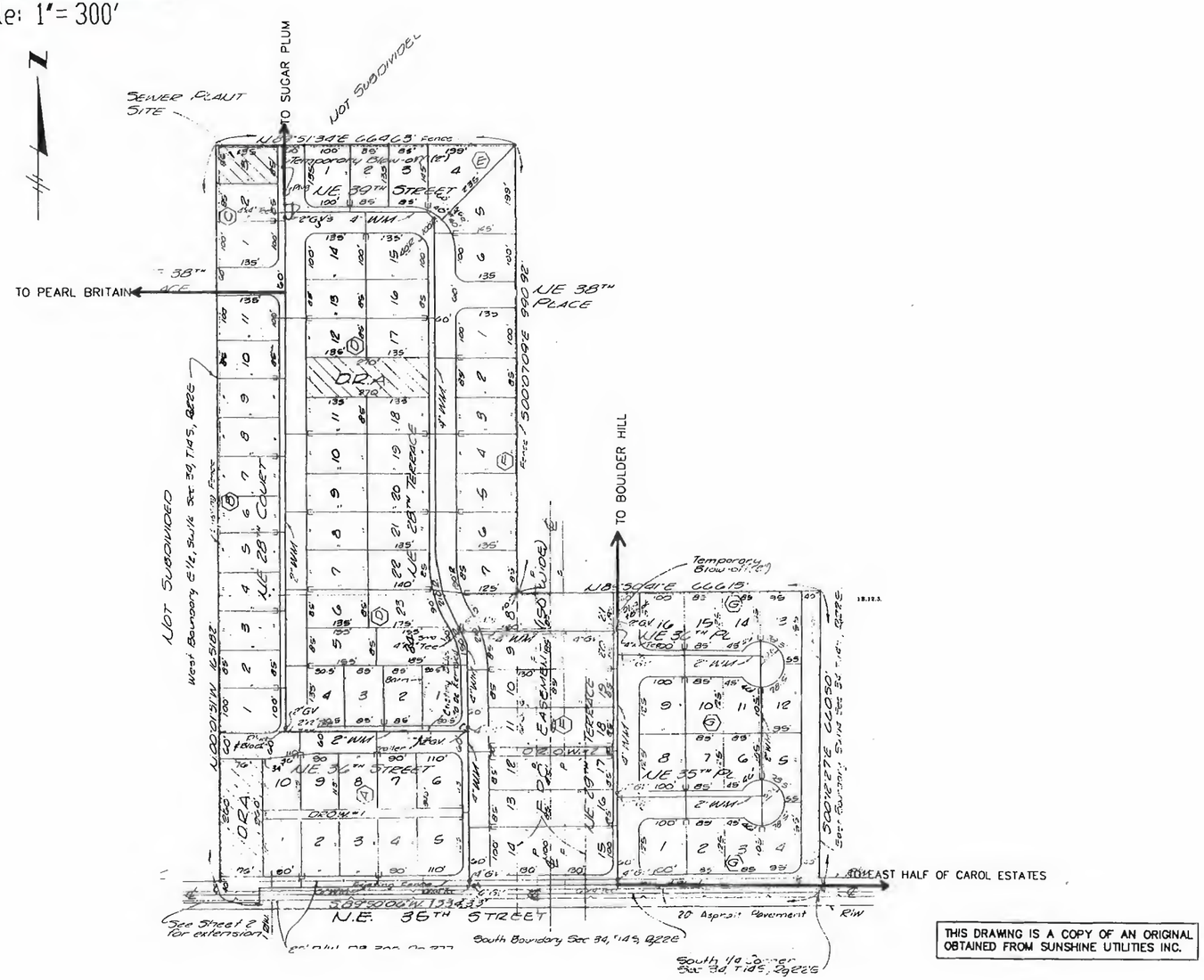
Scale: 1"= 300'



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PH (352) 840-8588 FAX (352) 840-8774

STONE HILL

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

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Project No. 9636-02

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Sheet 1 Of 1

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Sunlight Acres Subdivision

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Sunlight Acres. A summary of the main parameters for the water system are summarized below in Table 1-1.

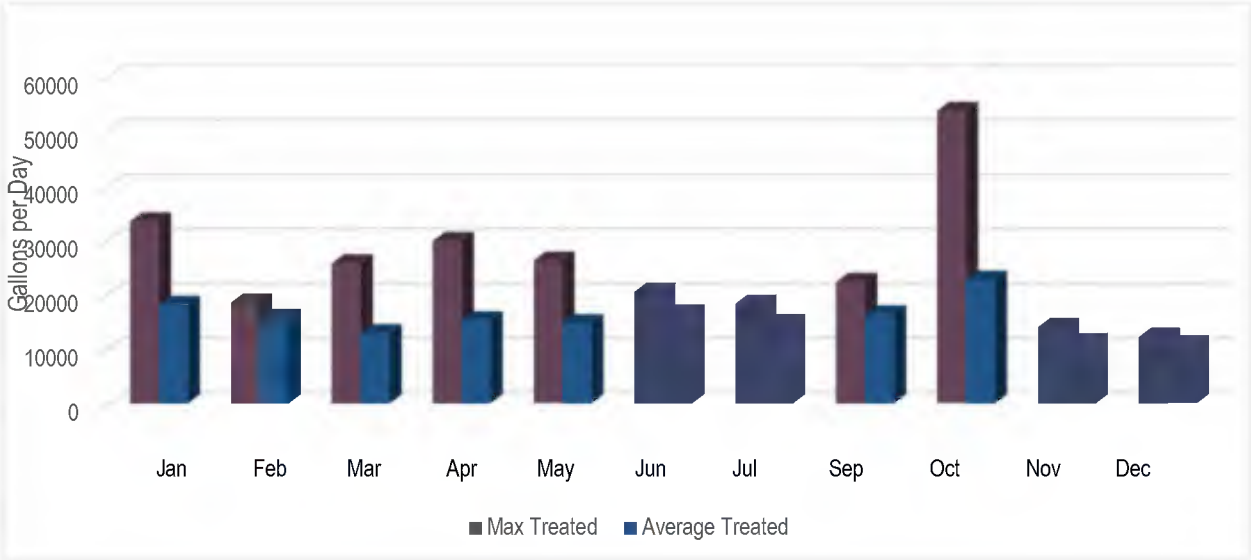
Table 1-1: Sunlight Acres Subdivision System Information

Water System Name	Sunlight Acres Subdivision
PWD ID Number	3421520
Classification	Community
Plant Category & Class	5D
Street Address	13035 SE 32nd Court
City, State	Belleview, Florida
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	198 (Sanitary Survey)
Number of Service Connections	79 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	15,348 GPD (2019 Monthly Reporting)
Maximum Day Water Use	53,700 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	180,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Sunlight Acers community is depicted in Figure 1-1.

Figure 1-1: Sunlight Acres Subdivision Average Water Use 2019



Source: 2019 Monthly Reporting

2. WATER TREATMENT FACILITY

2.1 Facility Description

Water is pumped from Well 1 though a 3-inch check valve and a 3-inch Sensus flow meter before going into the 2,000-gallon steel hydropneumatic tank. The well pump turns on when the pressure at the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 3-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	125 feet deep, 150 GPM	1983 (Sanitary Survey)	Fair
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	2,000 gallons, Steel	Approximately 1985 (Tank Inspection Report)	Poor

2.1.1 Source

The Sunlight Acres well is located near the tank within a locked fenced in area and is about 50 feet from SE 32nd Court down a dirt path in a forested area. The top of the well casing is 13 inches above grade and within a concrete pad. The well uses a submersible 150 GPM pump with a 10 HP motor at 230 Volts. The well has a sample tap and a vent with a check valve off the top of the well casing. Water then flows through a 3-inch Sensus meter. The well, meter, and path to the well is shown in Figure 2-1, Figure 2-2, and Figure 2-3.

There are no potential sources of contamination within 1000 feet of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

Figure 2-1: Well 1

Figure 2-2: Source Meter

Figure 2-3: Path to Sunlight Acres System

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is 1:5 of 10.5% chlorine to water and is housed in a 50-gallon drum for dilution and a 30-gallon plastic storage bin for distribution. The chemical pump is a diaphragm 12 GPD Uni-Dose Pump, set at 80% stroke. The chemical metering pump at the facility is shown in Table 2-2. The average distribution residual in 2019 was 1.0 mg/L.

The chlorine pump will turn on when the pump is energized. The chemical pump outlet is wired to the well pump starter.

Table 2-2: Sunlight Acres Chemical Metering Pumps

Chemical Pump	Chlorine
Brand	Uni Dose
Model	U021-2811TT
Size	0.50 GPH

Figure 2-4: Chlorine Treatment Bin

2.1.3 Storage

The Sunlight Acres water treatment plant has a 2,000-gallon hydropneumatic storage tank on-site shown in Figure 2-5. The tank is plumbed with 3-inch isolation gate valves at the inlet and outlet of the tank with a 3-inch bypass line that is normally closed. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine pumps. The tank is equipped with a sight tube and pressure gauge for quick reference, during the inspection the tank was at 65 psi. The tank is not equipped

with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The storage tank was last inspected by Enviro-Tech, Inc. on November 24, 2020. The tank inspection report stated that the tank exterior appeared to be in fair condition and the interior was in poor condition. The tank interior had significant areas with no coating present and corrosion was noted throughout the tank interior. Refer to Appendix B for the Tank Inspection Report.

Figure 2-5: Storage Tank

2.1.4 Pump Station Building

There is no pump station building onsite. The plant is located is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, or PPE available on-site.

2.1.5 Back-Up Power

There is no emergency generator onsite or a quick-connect for portable generator. The Emergency Response Plan provided by Sunshine Utilities states there is standby power at the site, however this was not observed to be the case. Please refer to Appendix C for the 2013 Emergency Response Plan.

The system serves less than 350 people and has less than 150 service connections and is not required to have standby power per Florida Administrative Code 62-555.320 (14) (a).

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on July 28, 2020 and noted two deficiencies. One deficiency was related to no record that the drinking water flow meter had been calibrated and the other deficiency was for a late storage tank inspection. The facility returned to compliance on September 4, 2020 after a follow up inspection by FDEP. Please refer to Appendix E for the Sanitary Survey Report. The plant has received two violations within the past 10 years. Both violations were for monitoring and reporting of stage 2 disinfectants and disinfection byproducts on November 8, 2018, which the plant returned to compliance on November 26, 2018.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site, and it is recommended flood lights be installed to allow the site to be safely accessed at night.

The plant has no building or structure in place to house electrical equipment, logbooks, or chemical pumps. It is recommended to construct a building onsite to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level

The electrical panels and pump starter box onsite are badly corroded and need to be replaced as shown in Figure 2-6.

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-6), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

Figure 2-6: Corroded Pump Starter Box

2.3.2 Source of Supply

The system currently uses a sample tap and a vent with a check valve off the top of the well casing for its vent. This should be replaced with a screened vent to prevent the vent from being accidentally closed.

2.3.3 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank inspection report noted the tank interior to be in poor condition, with significant areas where the no coating was present. Corrosion was also noted throughout the interior walls. The tank is over fifteen years old, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

A blowoff valve located before the bypass line was leaking during the site inspection and should be replaced.

There are chemicals stored onsite have no secondary containment to protect against accidental release into the environment. There is a 55-gallon tank for chlorine mixing and a 30-gallon tank for chlorine distribution. The chlorine solution is stored in a trash bid as shown in Figure 2-4. The trash bid should be removed and chemical solution drum should be used for holding chlorine. The tanks should be stored on a pallet that can contain the total volume of the chemicals. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005.

To install secondary containment for the chemical storage, a structure will have to be installed to protect the secondary containment from filling with rainwater. In addition, a structure around the chemical drums will offer an added protection from damage. This can be accomplished by changing out all the tanks with a smaller 30-gallon tanks and storing the chemicals in an enclosed container such as the PIG Roll Top Hardcover Spill Pallet, with a 66-gallon containment capacity. An example is shown in Figure 2-7.

Figure 2-7: PIG Roll Top Hardcover Spill Pallet

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1983 and supplies water using 2 to 4-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections if needed, according to the distribution map there are no blowoff valves. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes, and each home as its own aboveground meter located in the right of way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

The distribution map does not indicate any blowoff valves in the system. A blowoff valve should be installed along Eastern end of S.E. 32nd Ct. An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-end to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Sunlight Acres to normal operating conditions are summarized with cost estimates in Table 4-1 and Table 4-2. The total cost estimate for Triage Repairs at Sunlight Acres is: **$28,700**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$15,000
Mission Monitoring at Well	$10,000
Total	$26,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,700
Replace Leaking Blowoff Valve	$1,000
Total	$2,700

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Sunlight Acres to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-4 through Table 4-6. The total cost estimate for Capital Improvements at Sunlight Acres is: **$74,000**.

Table 4-3: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Interior Tank Coating	$5,000
Transmitters and Other Monitoring Equipment	$2,500
Total	$16,500

Table 4-4: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$3,500
Total	$3,500

Table 4-5: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Insert Blowoff Valve	$2,000
Total	$29,000

Table 4-6: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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

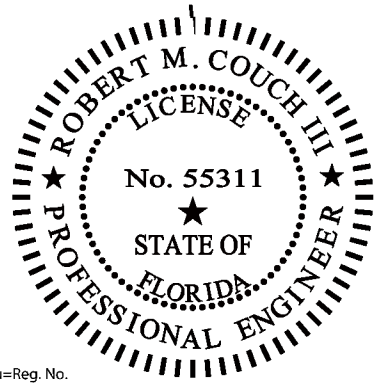
Sunlight Acres Subdivision Tank

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 +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: 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 (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 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:

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

Table of Contents

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:

_____

☐ 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.]

Ellia Ruggiero

Inspector Signature

Ellia Ruggiero
Printed Name

Environmental Specialist
Title

7/28/2020
Date

David Smicherko

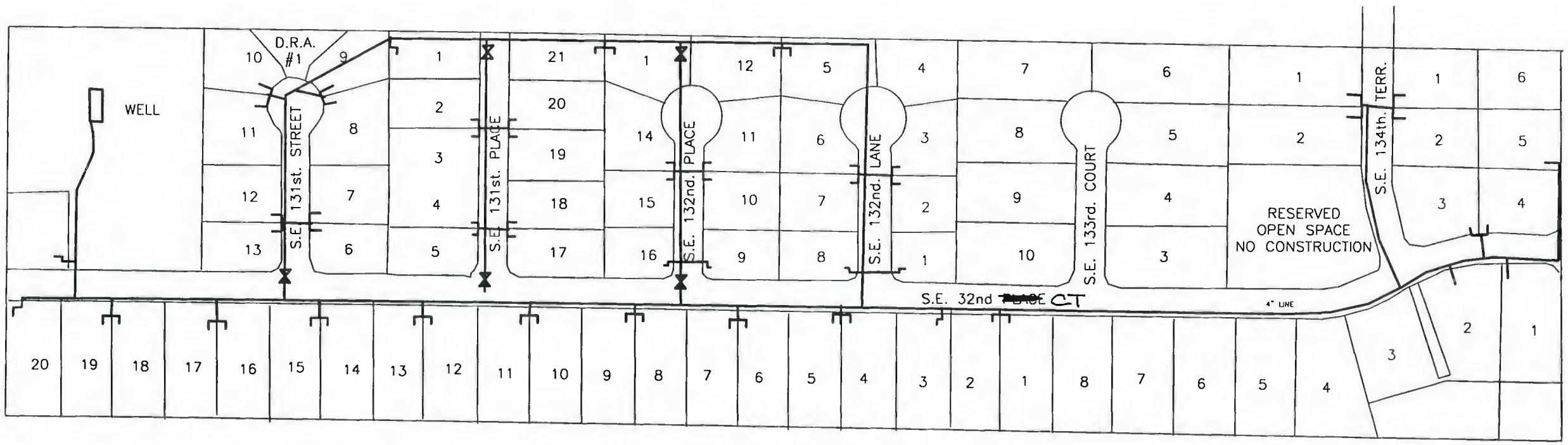
Reviewer Signature

David Smicherko
Printed Name

Environmental Manager
Title

8/18/2020
Date

APPENDIX F: DISTRIBUTION MAP



0 100 200

Scale: 1"=100'

THIS DRAWING IS A COPY OF AN ORIGINAL DONE BY SPRINGSTEAD AND ASSOC. INC.

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST. SUITE 202 OCALA, FLORIDA 34471
PH (352) 840-8588
FAX (352) 840-8774

SUNLIGHT ACRES

SUNSHINE UTILITIES INC.
FT. KING & MAIN
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

Whispering Sands Subdivision

WOODARD &CURRAN

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

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Whispering Sands. A summary of the main parameters for the water system are summarized below in Table 1-1.

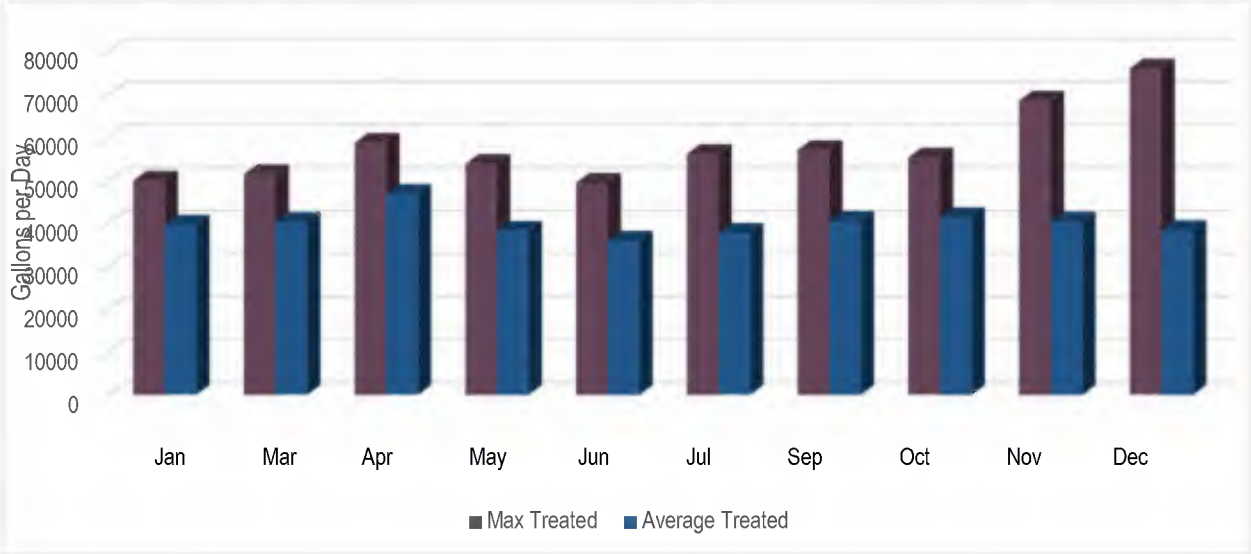
Table 1-1: Whispering Sands System Information

Water System Name	Whispering Sands Subdivision
PWD ID Number	3424009
Classification	Community
Plant Category & Class	5D
Street Address	3030 SE 50th Ct.
City, State	Ocala, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	437 (Sanitary Survey)
Number of Service Connections	125 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	39,842 GPD (2019 Monthly Reporting)
Maximum Day Water Use	75,900 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	228,960 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Whispering Sands community is depicted in Figure 1-1.

Figure 1-1: Whispering Sands Average Water Use 2019



Source: 2019 Monthly Reporting

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two water wells onsite, Well 1 and Well 2. Water is pumped from Well 1 through a 3-inch check valve then a 3-inch Neptune flow meter. Water is pumped from Well 2 through a 3-inch Octave flow meter and a 3-inch check valve. The two sources combine into the 10,000 gallons storage tank then out to distribution. The well turns on when pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection after going through their respective check valves. There is a 6-inch bypass line for the tank that is normally closed. Water exits the tank on the opposite side from where it enters and out to the distribution system.

Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	132 feet deep, 115 GPM	1979 (Sanitary Survey)	Fair
Source	Well 2	128 feet deep, 150 GPM	1983 (Sanitary Survey)	Fair
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	10,000 gallons, Steel	Unknown	Fair
Generator	Generac	20 kW	2004 (Generator Information Plate)	Fair
Building	Wood	23 by 11 Feet	Unknown	Fair

2.1.1 Source

The Whispering Sands well is located within a locked fenced in 5 feet from the pump station building and 30 feet from SE 50th Ct. The top of the well casing is 12 inches above grade and within a concrete pad. The well is 132 feet deep with a submersible Sta-rite 115 GPM pump with a 7.5 HP motor. Well 1 has a sample tap and a screened vent with a check valve on the top of the well, and a 3-inch Neptune meter. Well 1 acts as the lead well, so it supplies most of the community water demands. The well and meter are shown in Figure 2-1 and 2-2.

Figure 2-1: Well 1

Figure 2-2: Well 1 Source Meter

Well 2 is located 30 feet from Well 1 in a separate fenced in area. The well is 14 inches off the ground and within a concrete pad. The well is 128-feet deep with a submersible 150 GPM pump with a 7.5 HP motor. Well 2 has a sample tap, a screened vertical vent on top of the well, and a 3-inch Octave meter. Well 2 acts as the "lag" well, so it only supplies water if the community water demands are greater than what Well 1 can provide. The well and meter are shown in Figure 2-3.

Figure 2-3: Well 2

There are no potential sources of contamination within 1000 feet of either of the wells at the water treatment plant. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is 1:3 of 10.5% chlorine to water and is stored in two 35-gallon drums located next to the pump station building, one tank for each well onsite, shown in Figure 2-4. The chlorine is injected into the water supply by two pumps, a Unidose 24 GPD diaphragm pump set at 50% stroke for well 1 and a Chemtech 15 GPD diaphragm pump set at 25% stroke for well 2. The chemical metering pumps at the facility is shown in Table 2-2. The average distribution residual in 2019 was 1.3 mg/L.

The chlorine pumps will turn on when their respective pump is energized. Each chemical pump outlet is wired to their respective well pump starter.

Table 2-2: Whispering Sands Chemical Metering Pumps

Chemical Pump	Chlorine (Well 1)	Chlorine (Well 2)
Number of Pumps	1	1
Brand	Uni-dose	Chem Tech
Model	Missing	X015-XA-AAAFXXX
Size	24 GPD	15 GPD

Figure 2-4: Chlorine Treatment

2.1.3 Storage

The water treatment plant has a 10,000-gallon steel hydropneumatic storage tank on-site shown in Figure 2-5. The tank is plumbed with 6-inch isolation gate valves at the inlet and outlet of the tank with a 6-inch bypass line that is normally closed, and a tank drain located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chlorine

pumps. The tank is equipped with a sight tube and pressure gauge for quick reference, and the pressure recorded during the site inspection was 45 psi. The tank is not equipped with an air compressor, and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. on January 10, 2019 and stated that the tank exterior appeared to be in fair structural condition. The interior coating was in fair condition with minor areas where the coating had begun to fail, and corrosion had formed on the tank interior surface. Please refer to Appendix B for the 2019 Tank Inspection Report.

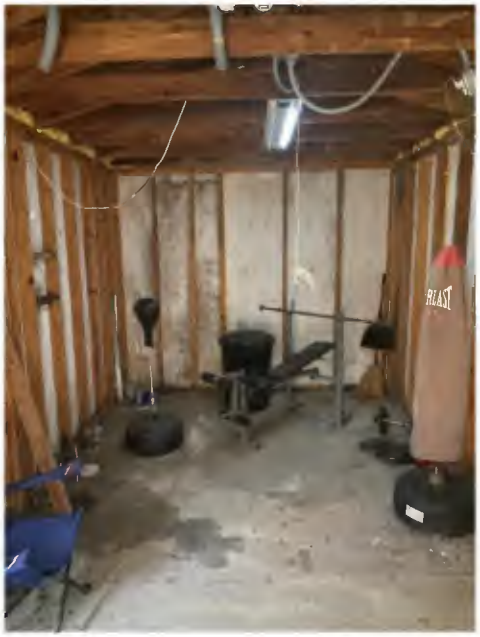
Figure 2-5: Storage Tank

2.1.4 Pump Station Building

The pump station building is a 23 by 11-foot wooden building primarily used for storage of the chemical treatment, facility logbook and electrical equipment, shown in Figure 2-6 and 2-7. The building has a single door which opens in and has a width of 3 feet. The building is within a fence with a locked gate and has lighting indoors, but has no fire extinguisher, floor drains, chemical containment, or PPE on-site. The building was used as a weight room for one of the operators who lived in the area.

Figure 2-6: Pump Station Building

Figure 2-7: Pump Station Building Interior



2.1.5 Back-Up Power

The Whispering Sands plant has a 20 kW Generac generator unit onsite to power the well pumps if there is an interruption in power supply, shown in Figure 2-8. The generator is exercised one hour per week by an automatic exerciser, and the site is equipped with an automatic transfer switch. The generator runs on propane and is supplied by a 120-gallon propane tank. The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

Figure 2-8: Back-up Power Generator

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There were no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on November 19, 2020 and had one deficiency. The report stated that the MOR data was missing from April 18, 2020 through September 25, 2020 because of a broken flow meter. The facility was brought back into compliance on September 25, 2020 by repairing the flow meter. Refer to Appendix E for the most recent Sanitary Survey Report. According to the Florida Department of Environmental Protection's database, the Whispering Sands plant has received no violations since 2010.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site. Floodlights should be installed to allow the site to be safely accessed at night.

It is recommended that the building be upgraded to protect sensitive equipment from weather and tampering.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components, replacement may be needed for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the

site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

2.3.2 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank inspection report noted that the interior coating was in fair condition with minor areas where the coating had begun to fail, and corrosion had formed on the tank interior surface. The tank age is unknown; however, it is likely older than fifteen years. The tank interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

There are chemicals stored onsite that have no secondary containment to protect against accidental release into the environment. Currently there are two 35-gallon tanks for chlorine. These containers should be stored on a secondary containment pallet that can contain the total volume of the chemicals. The containers are also located very close to the well head. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by changing out the chemical storage tanks to have more compact 30-gallon drums and storing the chemicals in an enclosed container such as the PIG PAK 604 containment pallet with a 66-gallon containment capacity and keep it stored in the pump station building. An example is shown in Figure 2-9.

Figure 2-9: PIG 66-Gallon Containment Pallet

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in 1979 and supplies water using a 2 to 6-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections if needed located at most roadway intersections. The system provides the community with potable water only (no fire flow water). Sunshine utility representatives stated that there are blowoff valves on most dead ends in the system, although these are not shown on the distribution map. Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter in the public right-of-way near the road. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant but there are many vacant lots.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Whispering Sands to normal operating conditions are summarized with cost estimates in Tables 4-1 and 4-2. The total cost estimate for Triage Repairs at Whispering Sands is: **$37,000**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$25,000
Mission Monitoring at Well	$10,000
Total	$36,000

Table 4-2: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,000
Total	$1,000

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Whispering Sands to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-5. The total cost estimate for Capital Improvements at Sunlight Acres is: **$73,500**.

Table 4-3: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Interior Tank Coating	$8,000
Transmitters and Other Monitoring Equipment	$2,500
Total	$19,500

Table 4-4: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27,000
Insert Blowoff Valve	$2,000
Total	$29,000

Table 4-5: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Total	$25,000

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

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 +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: 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 (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 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:

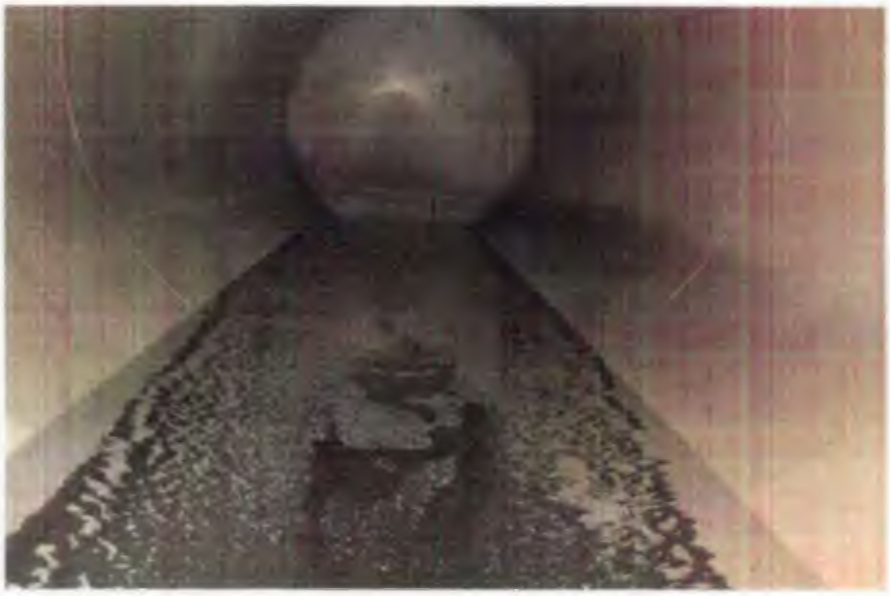
- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if 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
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	352-629-2489		
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

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:

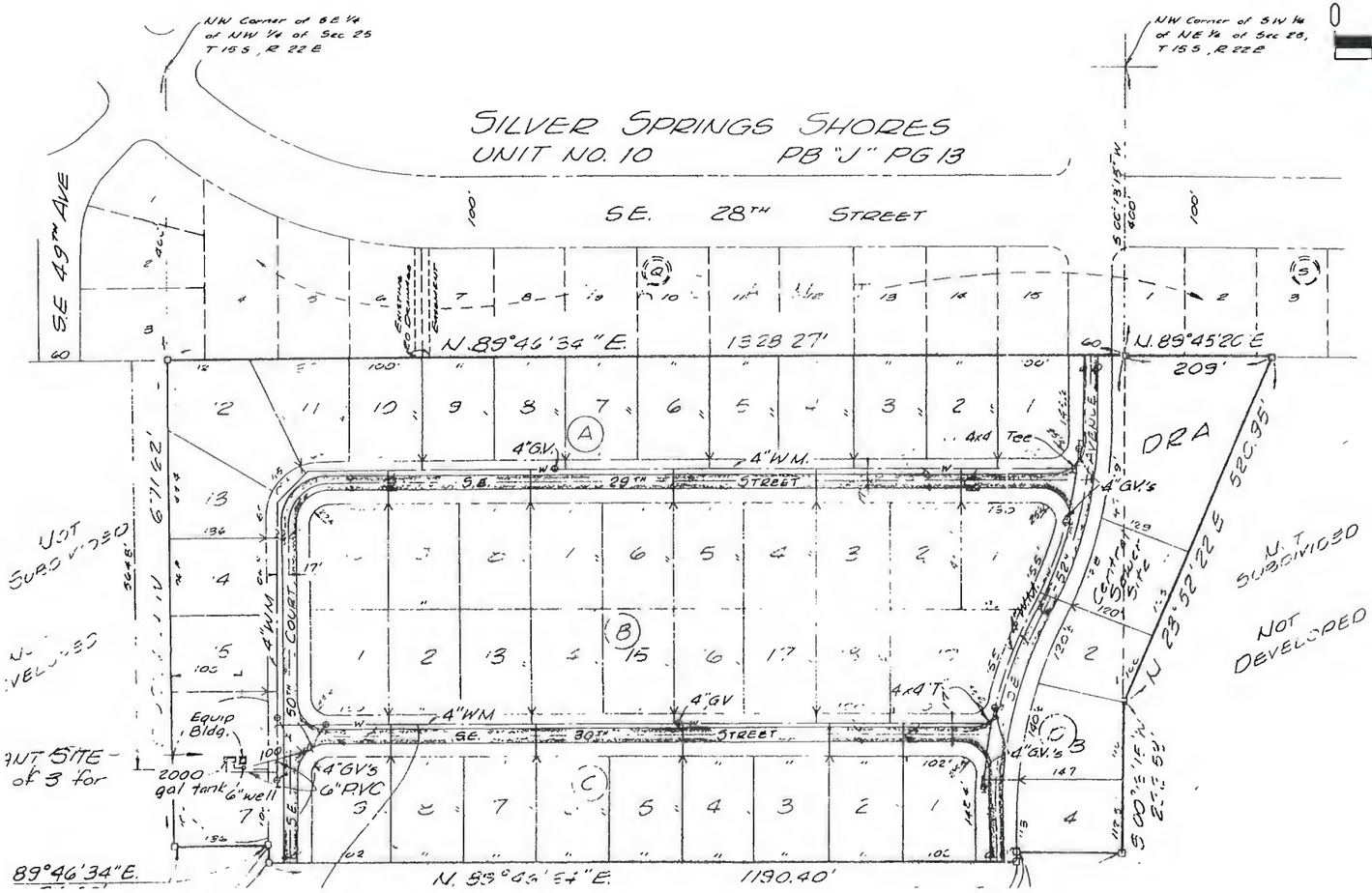
- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or** frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  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



0 100 200 400

Scale: 1"= 200'

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

Sands

H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST. SUITE 602 OCALA, FLORIDA 34471
PHONE (352) 840-0608 FAX (352) 840-9774

WHISPERING PINES UNIT 1

SUNSHINE UTILITIES INC.

OCALA, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	11 APR 97	HWB	PMM

Project No. 9636-02

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 202 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. 9836-02

Sheet 2 of 3

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Winding Waters Subdivision

WOODARD &CURRAN

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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TABLES

FIGURES

APPENDICES

1. INTRODUCTION

1.1 General System Information

Sunshine Utilities owns and operates a community, public water system to serve Winding Waters. A summary of the main parameters for the water system are summarized below in Table 1-1.

Table 1-1: Winding Waters System Information

Water System Name	Winding Waters
PWD ID Number	3424691
Classification	Community
Plant Category & Class	5D
Street Address	5855 SE 183rd Ave
City, State	Ocklawaha, FL
County	Marion
Owner	Sunshine Utilities
Contact	Dewaine Christmas
Population Served	473 (Sanitary Survey)
Number of Service Connections	189 (Sanitary Survey)
Pending Developments	None (Sunshine Utilities)
Average Day Water Use	59,346 GPD (2019 Monthly Reporting)
Maximum Day Water Use	93,000 GPD (2019 Monthly Reporting)
Max-Day Design Capacity	240,000 GPD (Sanitary Survey)
Water Source	Ground (Floridan Aquifer)
Storage and Pressure Regulation	Hydropneumatic Tank

1.2 Water Use

Potable water usage in the Winding Waters community is depicted in Figure 1-1.

Figure 1-1: Winding Waters Average Water Use 2019

Source: 2019 Monthly Reporting

2. WATER TREATMENT FACILITY

2.1 Facility Description

The plant has two water wells onsite, Well 1 and Well 2. Water is pumped from Well 1 through a swing check valve and into a 4-inch flow meter, 4-inch butterfly valve before going into the 10,000-gallon steel hydropneumatic tank. Water is pumped from Well 2 through a 4-inch Sensus flow meter and two 4-inch wafer check valves before joining water from Well 1 and then flows into the storage tank. The well turns on when the pressure in the tank is at 45 psi and turns off at 65 psi, with the pressure switch located at the tank. Chlorine is injected for disinfection prior to entering the tank. There is a 4-inch line for flow from Well 1 to bypass the storage tank that is normally closed. Water exits the tank on the opposite side and flows through a 6-inch flow meter and then out to distribution. The plant is located down a long sandy road, shown in Figure 2-1. The Sunshine representative also stated that the area is located within a bear preserve and seeing bears in the area is not uncommon.

Figure 2-1: Sandy Access Road

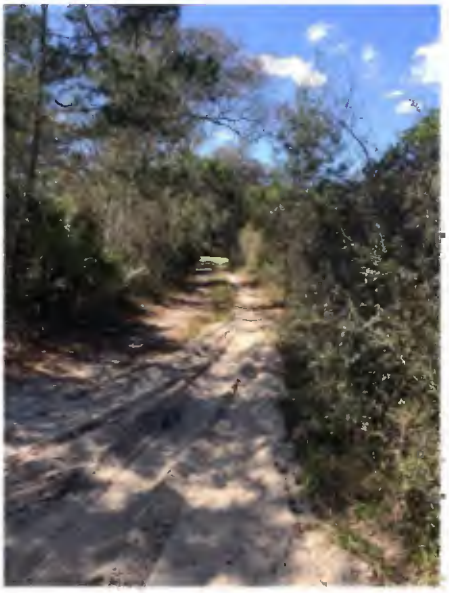


Table 2-1: Major System Components

Purpose	Type	Details	Age (Source)	Condition
Source	Well 1	225 feet deep, 811 GPM	1987 (Sanitary Survey)	Poor
Source	Well 2	297 feet deep, Unknown yield	1999 (Sanitary Survey)	Poor
Treatment	Disinfection	Chlorine	Unknown	Poor
Storage	Hydropneumatic Tank	10,000 gallons, Steel	Unknown	Poor
Generator	Generac	45 kW, 277 volts, 3 phase	Unknown	Poor
Building	CMU	17.25 by 12 feet	Unknown	Fair

2.1.1 Source

Well 1 is located within a locked fenced in area and is located roughly 2.5 feet from the pump station building. The top of the well casing 12 inches above grade and within a concrete pad. The well is 225 feet deep with one submersible Sta-Rite 811 GPM pump and 40 HP motor. The well has a screened vent with a check valve and a sample tap off the top of the well. During the inspection, the check valve and sample tap were noted to be leaking. Well 1 acts as the "lead" well so the majority of water demand is supplied by Well 1. The well and flow meter are shown in Figure 2-2 and Figure 2-3.

Figure 2-2: Well 1

Figure 2-3: Well 1 Flow Meter

Well 2 is in a separate fenced in area located 20 feet from Well 1 and 35 feet from the pump station building. The fence around Well 2 is loose and overgrown. The top of the well casing is 13.5 inches above grade and within a concrete pad. The well is 297 feet deep with an unknown pump and motor size. There is a sample tap but no vent off of the well. Water from well 2 is measured through a 4-inch Sensus meter. Well 2 acts as the "lag" well so it will only activate if the water demand is higher than what Well 1 can provide. The well and flow meter are shown in Figure 2-4 and Figure 2-5.

Figure 2-4: Well 2

Figure 2-5: Well 2 Flow Meter

There is no known potential source of contamination within a 1000-foot radius of the well. Please refer to Appendix A for the 2019 FDEP Source Water Assessment & Protection Program Results.

2.1.2 Treatment

Chlorine is injected for the purpose of disinfection prior to the hydropneumatic tank. The chlorine mix is unknown and is housed in 100-gallon storage tank located indoors. The chlorine is delivered through two diaphragm pumps. The chemical injection for Well 1 is supplied from a 15 GPD Chemtech pump, set at 100% stroke. The chlorine for Well 2 is supplied by a 12 GPD Uni Dose pump set at 100% stroke. The chemical metering pumps at Winding Waters are shown in Table 2-2. The average distribution residual in 2019 was 1.3 mg/L.

The chlorine pumps will turn on when the pump is energized, and the chemical pump outlets are wired to their respective well pump starter.

Table 2-2: Winding Waters Chemical Metering Pumps

Chemical Pump	Chlorine (Well 1)	Chlorine (Well 2)
Number of Pumps	1	1
Brand	Chem-Tech	Uni-Dose
Model	X015-XA-AAAFXXX	U021-281TT
Size	15 GPD	12 GPD

Figure 2-6: Chemical Treatment

2.1.3 Storage

The Winding Waters water treatment plant has a 10,000-gallon hydropneumatic storage tank onsite, shown in Figure 2-7. The tank is plumbed with 4-inch isolation butterfly valves at the inlet and a 4-inch isolation gate valve at outlet of the tank with a 4-inch bypass line that is normally closed, and a drain gate valve located underneath the tank. The operating set points for the tank are to turn on the well at 45 psi and turn off at 65 psi. The pressure is monitored with a pressure switch to energize the well and chemical treatment pumps. The tank is equipped with a sight tube and pressure gauge for quick reference. The tank is not equipped with an air compressor and air is injected into the tank via a bleeder tee located inside the well. The tank is equipped with a portable air compressor connector on the sight tube to inject air if needed as a backup.

The most recent inspection on the storage tank was performed by Enviro-Tech, Inc. in December 2018 and stated that the exterior condition was in overall fair condition and the interior of the tank appeared to be in poor condition. The tank interior had significant areas where the coating had begun to fail, and corrosion had formed on the interior tank surface. Please refer to Appendix B for the 2018 Tank Inspection Report.

Figure 2-7: Pump Station Building and Storage Tank

2.1.4 Pump Station Building

The pump station building is a 17.25 by 12-foot CMU building with a wooden roof primarily used for storage of the chlorine mixing tank, injection tanks, and facility logbook, shown in Figure 2-7. The building has no door but has an opening with a width of 40 inches. The building had no evidence of roof leaks or rodents, but the open door provides no containment for spills or protection from rodents and insects and there were unsecure cracks in the bricks. The building is within a fence with a locked gate, and has no fire extinguisher, floor drains, chemical containment, PPE, or lighting available on-site. The building interior is shown in Figure 2-8.

Figure 2-8: Pump Station Building Interior

2.1.5 Back-Up Power

The Winding Waters plant has a 45 kW Generac generator unit onsite to power the well pumps if there is an interruption in power supply. The generator is not exercised on a periodic basis, and the site is equipped with an automatic transfer

switch. The generator runs on propane and is supplied by two 120-gallon propane tanks. The automatic transfer switch and propane storage tanks were in poor condition.

The Emergency Response Plan provided by Sunshine Utilities references the generator and the procedures for using it during an emergency. Please refer to Appendix C for the 2013 Emergency Response Plan.

Figure 2-9: Back-up Power Generator

Figure 2-10: Automatic Transfer Switch

Figure 2-11: Propane Storage Tanks

2.2 Permit Information

2.2.1 Water Quality and MCL Exceedances

There was no water quality or MCL exceedances reported in the plant's annual drinking water quality report for the previous three years. Please refer to Appendix D for the 2019 Consumer Confidence Report. Additionally, there were no bacteria positives recorded during 2019 monthly bacteria samples.

2.2.2 Compliance and Violation History

The most recent sanitary survey for the plant was conducted on March 13, 2020 and noted one deficiency during the inspection. The inspection report stated that there was an inadequate combined or free chlorine residual. The plant was brought back into compliance on March 24, 2020 after sending an email to FDEP stating that the minimum remote residual was restored. Please refer to Appendix E for the Sanitary Survey Report. Additionally, no compliance issues or violations were observed in the Florida Department of Environmental Protection information portal in the last ten years.

2.3 Recommended Repairs and Improvements

2.3.1 General Plant

There is no lighting at the site. Floodlights should be installed to allow the site to be safely accessed at night.

The building onsite has been subject to degradation from chlorine off gassing and general weathering over time. The building also offers little protection from weather and tampering as there is no door as well as unsecure cracks in the bricks. It is recommended that the building be upgraded to be more secure.

Given the isolated location of the station, remote monitoring should be installed to alert operations staff of any issues, and to continuously log information. Mission Monitoring would be suitable for achieving this and should be installed at this site. Prior to the installation of the Mission Monitoring System, a licensed electrical contractor should conduct a site visit to ensure that the monitoring system can be installed safely. If any electrical code or safety items are identified, repairs should be made.

Remote monitoring of the following parameters is recommended.

- Flow (instantaneous and totalized)
- Well Pump Run Hours
- Well Pump Fail
- System Pressure
- Chlorine Level
- Generator Active

2.3.1.1 Electrical Items

From the site visit and visual of the electrical components (example shown in Figure 2-12), replacement is recommended due to the condition of the panels for health and safety considerations and to ensure the equipment meets national and local electrical codes.

Additionally, vendors have indicated that they will not install their equipment in panels that do not meet code or that are significantly deteriorated. As such, it is recommended than a licensed electrical contractor conduct a visit to the site to make a final recommendation based on national and local electrical codes and provide a detailed cost estimate for the work. See Section 4 for a high-level cost estimate.

The generator on site is old and will likely be due for replacement. Standby power is required at this site per Florida Administrative Code 62-555.320 (14) (a).

Figure 2-12: Electrical Panels

2.3.2 Source of Supply

Well 1 had a leaking check valve and sample tap. These should be replaced.

A vent should be installed on Well 2.

The access road to Well 1 and Well 2 was overgrown and should be cleared to allow truck access should the pump need to be replaced. The vegetation is shown in Figure 2-13.

Figure 2-13: Well Access Road

2.3.3 Water Treatment and Pumping

A continuous in-line chlorine analyzer should be installed to monitor the concentration of chlorine and report back to Mission Monitoring. This would allow the operations staff to track if the dose is lower or higher than the target range. Currently, chlorine is monitored by grab samples taken by the operator, for onsite testing. The chlorine analyzer should be reagent-less (amperometric), and an infiltration well will likely need to be installed for the discharge water.

The hydropneumatic tank inspection report noted the tank interior to be in poor condition, with significant areas where the no coating was present. The tank interior had significant areas where the coating had begun to fail, and corrosion had formed on the interior tank surface. The tank is likely older than fifteen years, and the interior should be sand blasted and re-coated with minimum of 5 mils DFT with epoxy to prevent further corrosion.

There are chemicals stored onsite have no secondary containment to protect against accidental release into the environment. Currently there is a 100-gallon storage tank for chlorine. The tank should be stored on a pallet that can contain the total volume of the chemical. Without secondary containment, this is in violation of Florida Administration Code 64E-8.005. This can be accomplished by storing the chemical on a pallet such as the PIG IBC Spill Containment Pallet, with a 360-gallon containment capacity. An example is shown in Figure 2-14.

Figure 2-14: PIG IBC Spill Containment Pallet

3. WATER DISTRIBUTION SYSTEM

3.1 Distribution System Description

The distribution system was built in the mid 1980's and supplies water using a 2 to 8-inch PVC water main in a loop configuration. The loop has gate valves to isolate sections of the loop if needed and one blowoff valve located. The system provides the community with potable water only (no fire flow water). Refer to Appendix F for a map of the water distribution system.

Sunshine Utilities states that the valves are exercised at least once a year and that there are no backflow prevention devices or fire hydrants in the distribution system. The system supplies water to single homes with mostly double service lines off the water main. Each home has its own aboveground meter located behind each house. Sunshine Utility currently collects readings from the meters manually once a month. There are no pending developments in the service area of the plant.

3.2 Recommended Repairs and Improvements

An automatic flushing unit and chlorine analyzer is recommended to be installed at the dead-ends to help improve water turn over and water quality.

4. CAPITAL ESTIMATES

4.1 Triage Repairs

Repairs needed to address safety and liability hazards, as well as upgrades needed to bring Winding Waters to normal operating conditions are summarized with cost estimates in Tables 4-1 through 4-3. The total cost estimate for Triage Repairs at Winding Waters is: **$65,800**.

Table 4-1: General Plant Triage Repairs

Recommendation	Estimate
Install Flood Lights	$1,000
Upgrade Electrical	$50,000
Mission Monitoring at Well	$10,000
Total	$61,000

Table 4-2: Source of Supply Triage Repair

Recommendation	Estimate
Install Vent and Clear Well Access Road	$3,000
Total	$3,000

Table 4-3: Water Treatment and Pumping Triage Repairs

Recommendation	Estimate
Chemical Containment	$1,800
Total	$1,800

4.2 Improvements and Other Repairs

Recommendations were provided to increase the reliability for Winding Waters to supply consistent and safe drinking water, and for improved operation and maintenance. The recommendations and cost estimates are summarized in Tables 4-3 through Table 4-7. The total cost estimate for Capital Improvements at Winding Waters is: **$114,500**.

Table 4-4: Water Treatment and Pumping Capital Improvements

Recommendation	Estimate
Continuous Chlorine Analyzer and Infiltration Well	$9,000
Interior Tank Coating	$8,000
Transmitters and Other Monitoring Equipment	$2,500
Total	$19,500

Table 4-5: Source of Supply Capital Improvements

Recommendation	Estimate
Replace Source Meter	$8,000
Total	$8,000

Table 4-6: Transmission and Distribution Capital Improvements

Recommendation	Estimate
Automatic Flushing Unit	$27 000
Total	$27,000

Table 4-7: General Plant Capital Improvements

Recommendation	Estimate
Building and Site Repairs	$25,000
Replace Generator	$35,000
Total	$60,000

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

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

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

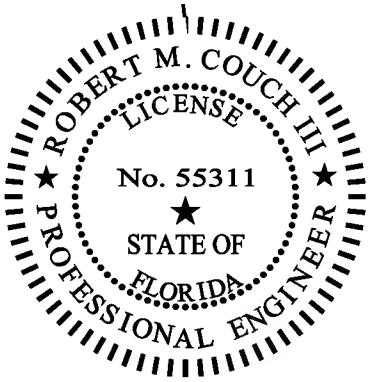
Winding Waters Subdivision Tank

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



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 +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: 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 (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 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: 1/29/2019

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:

_____

☐ 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 deposi

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.

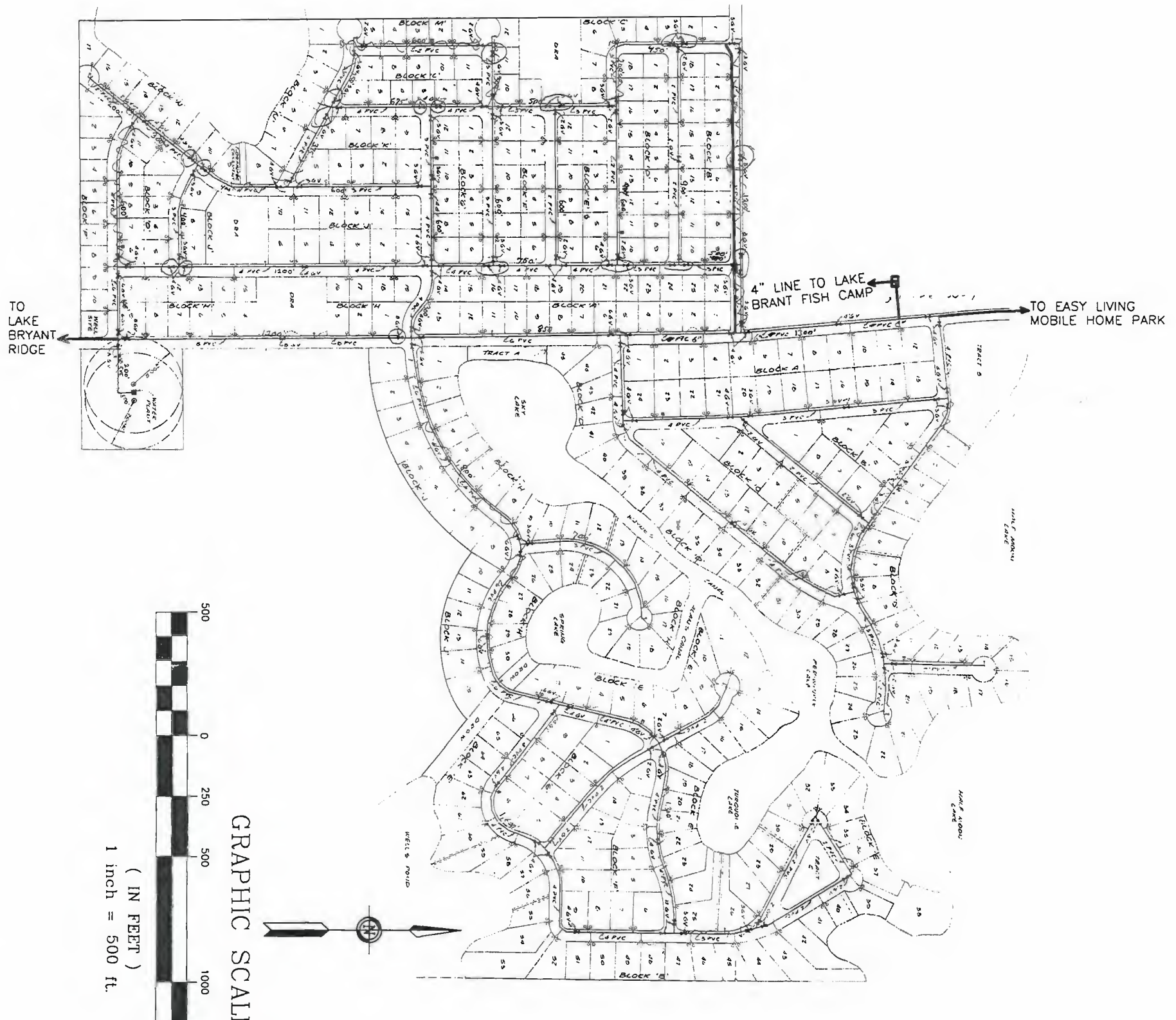
  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers 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



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FREDERICK BELL CONSULTING ENGINEERS, INC.
OCALA, FLORIDA (904)622-8895

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

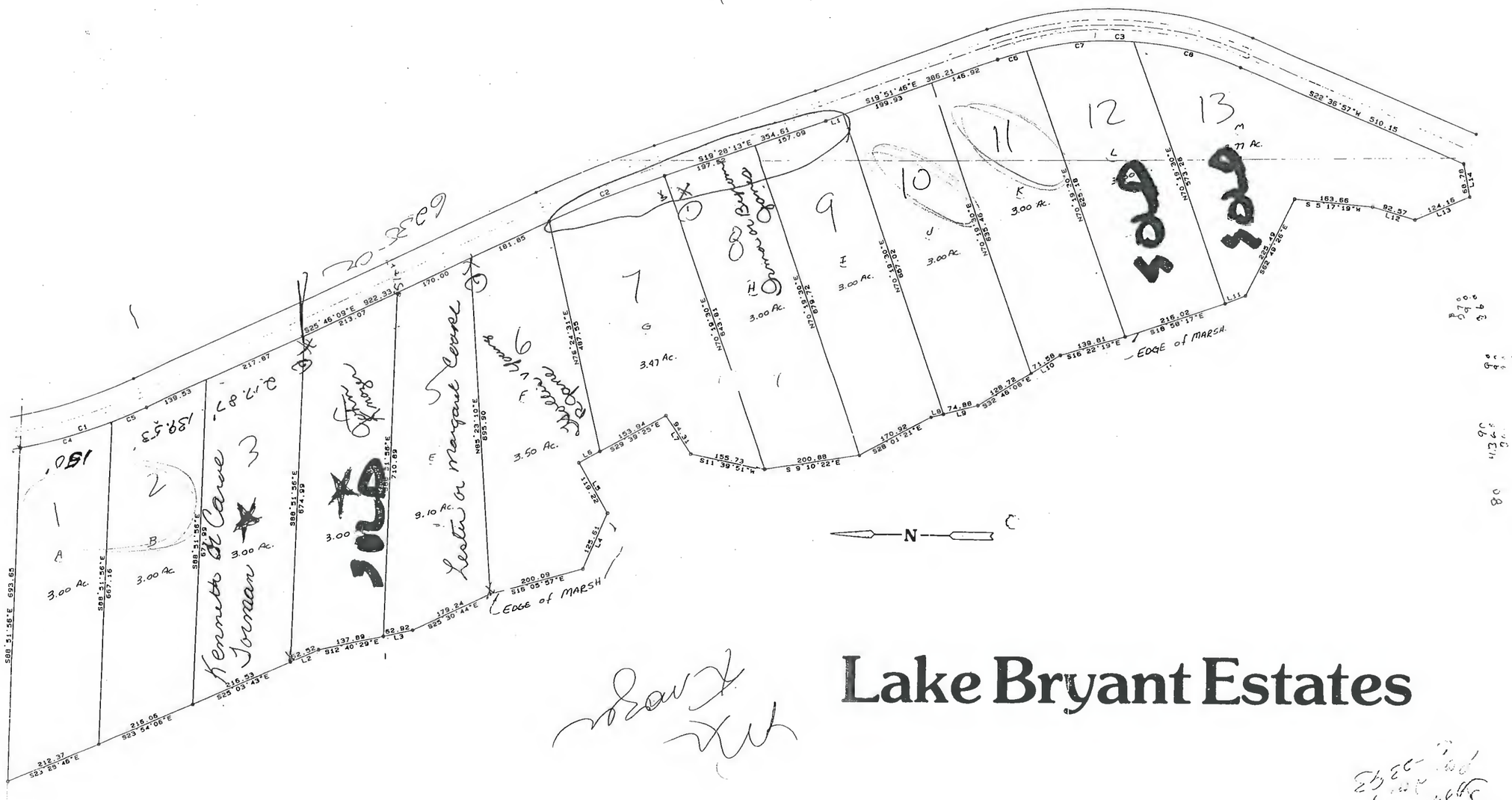
Project No. 9638-02

Sheet 1 OF 1

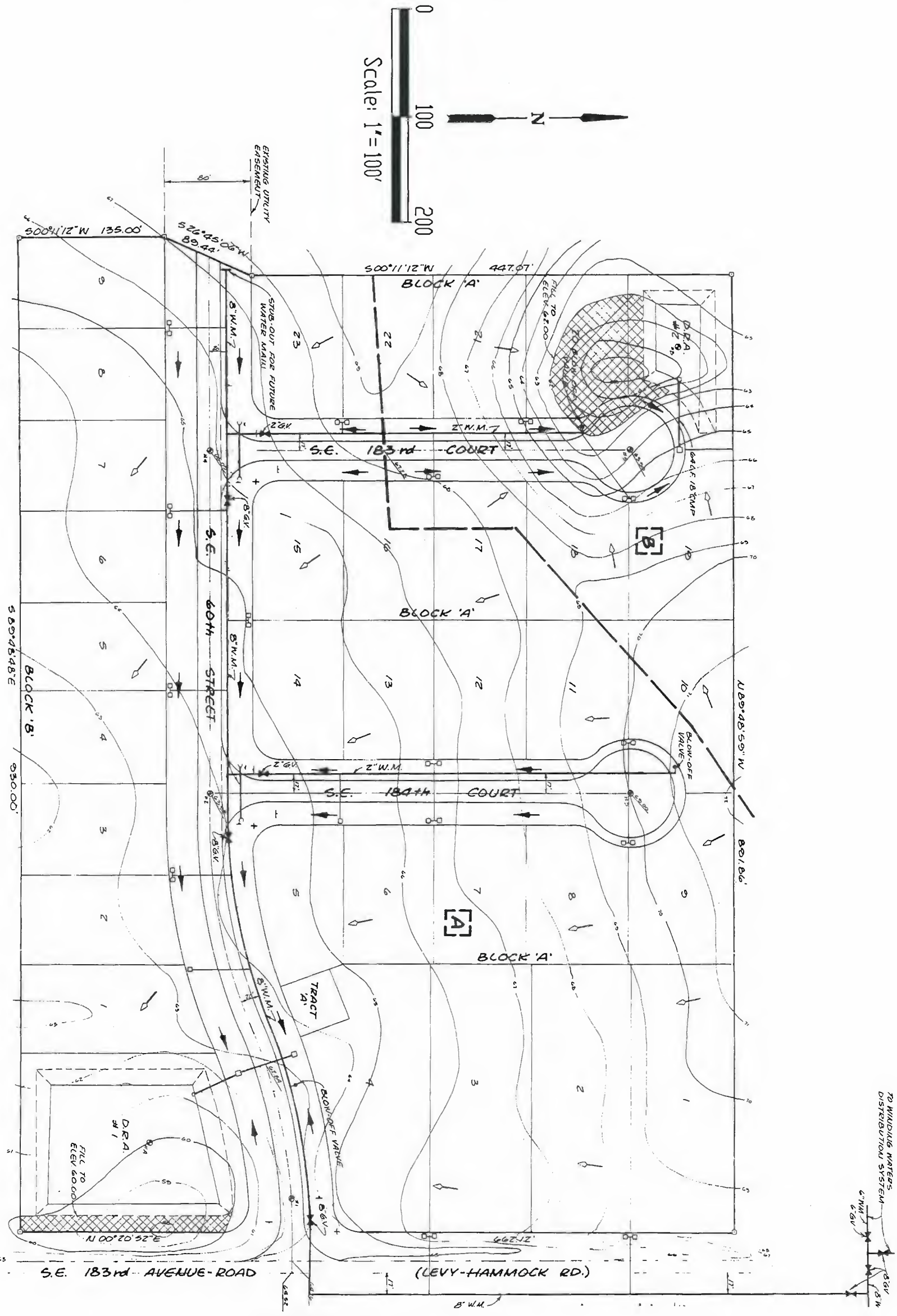
WINDING WATERS

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 502
OCALA, FLORIDA 34471
FAX (352) 840-9588
(352) 840-9774



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. 9636-02

Sheet 1 OF 1

LAKE BRYANT RIDGE

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 502
OCALA, FLORIDA 34471
FAX (352) 840-0588
(352) 840-9774

"LAKE IN THE FORE

PROPOSED 24 UN

MOBILE HOME PA

TY WELL
UED

555.325(5)

SED
ELEASE
=

REMOVED EXISTING
2" WATER MAIN
(SEE SHEET #1)

EXISTING
MOBILE HO

"Easy Livin's"

Urban MHP

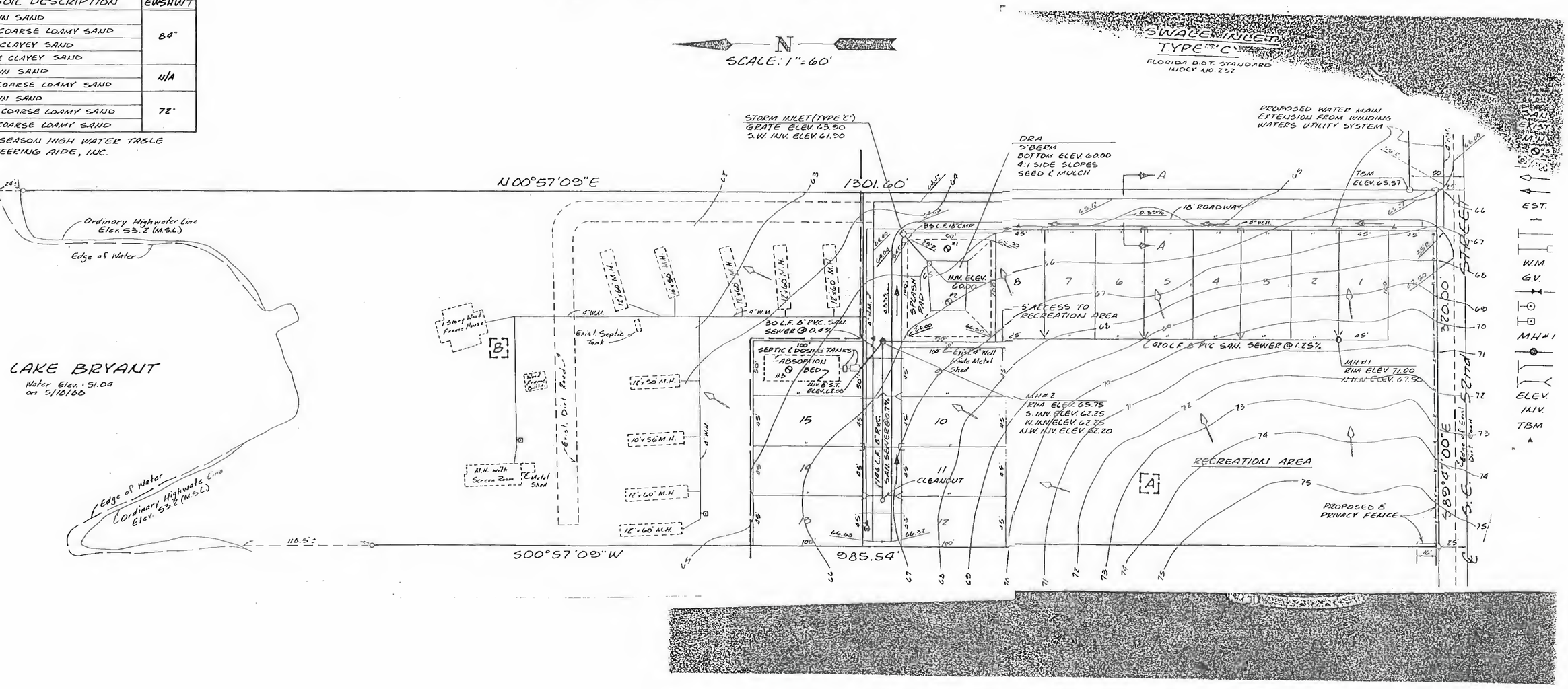
SOIL LOG

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'



WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

EXHIBIT 32

Sunshine Utilities
Exhibit 32

	2021	Y0	Y1	Y2	Y3	Y4	Y5
ERU's	4,036	4,036	4,036	4,036	4,036	4,036	4,036
Rate*	22.05	22.05	48.50	48.50	54.24	54.24	54.24
Revenue	1,180,790	995,326	2,348,952	2,348,952	2,626,952	2,626,952	2,626,952
Outside labor expenses	(978,605)	(572,694)	(592,738)	(613,484)	(634,956)	(657,180)	(680,181)
Administrative and office expense	0	(208,228)	(215,516)	(223,059)	(230,866)	(238,946)	(247,310)
Maintenance and repair expense	0	(223,189)	(231,001)	(239,086)	(247,454)	(256,115)	(265,079)
Purchased water	0	0	0	0	0	0	0
Purchased sewage treatment	0	0	0	0	0	0	0
Electric power expense (exclude office)	0	(73,557)	(76,131)	(78,796)	(81,554)	(84,408)	(87,362)
Chemicals expense	0	(41,297)	(42,742)	(44,238)	(45,787)	(47,389)	(49,048)
Testing fees	0	(82,657)	(85,550)	(88,544)	(91,643)	(94,851)	(98,171)
Transportation expense	0	0	0	0	0	0	0
Other operating expense	0	(466)	(482)	(499)	(516)	(534)	(553)
Total Operating Expense	(978,605)	(1,202,088)	(1,244,161)	(1,287,706)	(1,332,776)	(1,379,423)	(1,427,703)
Depreciation	(25,127)	(179,324)	(231,416)	(311,976)	(325,549)	(327,424)	(327,424)
Interest	(6,957)	0	(57,525)	(52,662)	(135,541)	(133,939)	(132,375)
Total Expenses	(1,010,689)	(1,381,412)	(1,533,102)	(1,652,345)	(1,793,867)	(1,840,787)	(1,887,502)
Operating Income	**170,101**	**(386,086)**	**815,850**	**696,607**	**833,085**	**786,165**	**739,450**
Income Tax	(99,392)	0	(216,200)	(184,601)	(220,768)	(208,334)	(195,954)
Net Income	**70,709**	**(386,086)**	**599,650**	**512,006**	**612,317**	**577,831**	**543,495**

*Rate reflects average bills per ERU assuming 5,000 gallons of usage per month

EXHIBIT 33

NOTICE OF UTILITY'S PETITION TO ESTABLISH AN ACQUISITION ADJUSTMENT

DATE OF CUSTOMER NOTICE - ___/___ /_____

CSWR-Florida Utility Operating Company, LLC ("CSWR-Florida") has filed a Petition with the Florida Public Service Commission (the "Commission"), pursuant to rule 25-30.0371, Florida Administrative Code, to establish an acquisition adjustment for a non-viable utility system relating to its acquisition of the water facilities of Sunshine Utilities of Central Florida, Inc.

CSWR-Florida's Petition was filed with the Commission on March _____, 2025 and assigned Commission docket number _____.

In its next rate case, CSWR-Florida expects to consolidate its rates over all Florida customers. If the Commission grants the full acquisition adjustment requested by CSWR-Florida, the 5-year projected consolidated rate impact is $2.24 per water customer, per month. If customer rates are not consolidated and the acquisition adjustment is applied to only the customers of Sunshine Utilities of Central Florida, Inc., then the rate impact is projected to be $3.96 per water customer, per month.

A copy of CSWR-Florida's Petition is available on the Commission's website at https://www.psc.state.fl.us/dockets.

CSWR-Florida can be contacted at 1630 Des Peres Rd., Suite 140, St. Louis, MO 63131, telephone (855) 476-1942 during the regular business hours of Monday – Friday from 7am-7pm. Any customer substantially affected by the Petition may file a motion to intervene in accordance with rule 28-106.205, Florida Administrative Code.