Exhibit "B"

PORT ST. LUCIE
UTILITY SYSTEMS

WATER SUPPLY FACILITY WORK PLAN
2022 UPDATE

Prepared by:

City of Port St. Lucie
Utility Systems Department
PSLUSD Project No. 30-0005

Revised May 2023
Final July 2024

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SECTION 1.0

INTRODUCTION

2.1 Background

The City of Port St. Lucie prepared the 10-Year Water Supply Facility Work Plan (Work Plan) in 2008 to provide the information necessary to meet the criteria set forth by the State Legislature. This Work Plan addressed potable water supply and demand for the City's utility service area for 2008 through to the year 2016. The Work Plan was revised and adopted in February 2008, and has been reviewed on an annual basis and will be updated every five years to coincide with the Upper East Coast (UEC) Planning Area Regional Water Supply Plan (RWSP) update by South Florida Water Management District (SFWMD).

The Florida Legislature modified the requirements for local governments' preparation of Comprehensive Plans. These regulatory changes were designed to strengthen coordination of water supply planning with local land use planning, in response to concerns that the limits of groundwater are being approached in many areas of the State. The legislation directed that alternative water supplies be identified, quantified and developed by affected municipalities, with additional requirements in addition to the implementation of local water conservation strategies and Florida Department of Environmental Protection (FDEP) permitted water reuse programs. A requirement of the 2005 legislation is the completion of a 10-Year Water Supply Facilities Work Plan (Work Plan) by all counties and cities within the UEC Planning Area.

The UEC Planning Area is one of the four planning areas in the South Florida Water Management District's boundary for which water supply plans are prepared. The UEC Planning Area consists of St. Lucie and Martin counties and eastern Okeechobee County. SFWMD approved the 2006 UEC Water Supply Plan Amendment (2006 UEC Plan Amendment) on July 12, 2006. The 2006 UEC Plan Amendment amends the RWSP for the UEC Planning Area to meet the requirements of the 2005 legislation and all local governments within the UEC Planning Area were required to develop a Work Plan and amend their respective Comprehensive Plans. The Work Plan projected water demands for at least a 10-year period and demonstrated that the current and planned water supply facilities and source(s) of water met the projected demands. The Work Plan was then adopted as part of the Potable Water Sub-Element of the community's Comprehensive Plan. The Capital Improvements Element was also amended to include projects listed in the first five years of the ten-year Work Plan, as well as the text of other Plan elements, as appropriate.

This document and the information contained herein will serve as the Five (5) Year update to the Water Supply Facilities Work Plan for the City of Port St Lucie and will be incorporated into the City's Comprehensive Plan, as well as coinciding with the other related Elements.

1.2 Overview of the Regional Water Supply Plan

SFWMD prepared the original Regional Water Supply Plan (RWSP) for the UEC Planning Area in 1998. This Regional Supply Plan has been updated to account for recent population growth and provide important information to local governments concerning revisions to state law requirements relevant to water supply planning. The latest 2021 Upper East Coast Water Supply Plan Update was updated and approved in November, 2021. The UEC Planning Area's projected population growth over the next 20 years indicates that there will be a significant increase in the region's public water demands, particularly in the urban sector. According to the UEC Regional Supply Plan, the UEC Region's total population is expected to increase from 469,000 in 2020 to about 686,000 residents by 2045. The City of Port St. Lucie is projected to have 324,447 of those residents by 2045. Development of alternative water supplies will play a vitally important role in meeting these projected water needs, as further development of traditional supplies becomes increasingly limited.

As such, to meet the issues identified in the RWSP, the USD has added additional Floridan wells to the current CIP, five of which will feed the planned Rangeline RO Water Treatment Facility. Each well will add an approximate total of 2.65 MGD of raw water supply. The PSLUSD continues to identify and obtain rights to additional potential wellsites in preparation for the projected growth.

The PSLUSD's reclaimed system has been and will continue to be expanded in order to reduce the use of potable and well water for irrigation purposes. New developments and recreational sites, such as golf courses, work with the PSLUSD to extend and connect to the reclaimed system. A new wastewater masterplan is being created to determine when planning should begin to expand the Glades WWTF, which will also allow for the expansion of the reclaim system. The Wesport WWTF is rated for 6MGD and the Glades WWTF is rated for 12MGD.

The McCarty Water Farming project is working in partnership with SFWMD to capture stormwater from the C-23 canal in compliance with minimum flows and minimum levels. These holding areas will then be fed to the new Rangeline WTF for surficial water treatment. The first four areas are completed and the fifth currently under construction. When completed there will be approximately 7,600 acre-feet of storage. Use of the C-23 canal is limited to the restrictions as set in place in the Operational Plan. Stormwater may only be withdrawn when there is an excess, that is when the canal is at or above 22.8 feet NGVD or the gates are opened for flood control. SFWMD reserves the right to cease flow during shortages or at their discretion. Withdrawals are per the agreement with SFWMD and the associated operation schedules and provide water quality treatment for the reduction of nutrients and other pollutants. Stormwater from this project will reduce future need for Floridan wells. The City does not currently make any other surface water withdrawals.

The Westport WWTF Nutrient Reduction Project, with grant funding from FDEP, allows for upgrades to meet advanced wastewater treatment (AWT) requirements for nitrogen and phosphorus removal. The PSLUSD has a long-standing Septic to Sewer Program, with interest free loans available to residents, and receives annual grant funding via the Indian River Lagoon program for septic to sewer conversions. At current, the PSLUSD converts approximately 400 residents per year. Both AWT upgrades and the PSLUSD Septic to Sewer program aid in reducing the nitrogen and phosphorus released into waterways.

The City of Port St. Lucie has future plans to construct an aquifer storage and recovery (ASR) system to store and recover stormwater from the City's McCarty Ranch property. The projected total storage volume of 420 MG would be designed to remain within City property lines.

The City's Stormwater Master Plan includes many projects that will increase the amount of storage, limit discharge, and provide water quality treatment. Some examples include stormwater treatment areas, stormwater detention and retention ponds, baffle boxes, and control structure modifications.

The City is in the process of creating a Vulnerability Assessment which will help identify areas of concern due to climate change and sea level rise. The City has also been coordinating with St. Lucie County and adjacent municipalities regarding resiliency and additional studies.

SECTION 2.0
EXISTING CONDITIONS

2.1 Summary of City Potable Water Providers

The City of Port St. Lucie (City) is located in St. Lucie County (County). **Figure-1** shows the delineation of the various public and private potable water service areas in the City. Within the City's current water service area boundary, potable water is produced or supplied by the following jurisdictional and private water utilities:

- Port St. Lucie Utility Systems Department
- St. Lucie West Services District
- The Reserve

2.1.1 Port St. Lucie Utility Systems Department

The City's Utility Service Area is currently comprised of approximately 132 square miles, including the entire city limits and some unincorporated areas of St. Lucie County adjacent to the city limits but excluded SLW Utility Service Area and The Reserves. As shown in **Figure-1**, this service area is bordered to the north by Midway Road, to the east by the Indian River, to the west by Rangeline Road and to the south by the St. Lucie County southern boundary. Additionally, the City's Planning area stretches north to State Road 70, and west five (5) miles past the City's current corporate limits. The Utility Service Planning Area encompasses approximately sixty-three (63) square miles in addition to the current City Service Area.

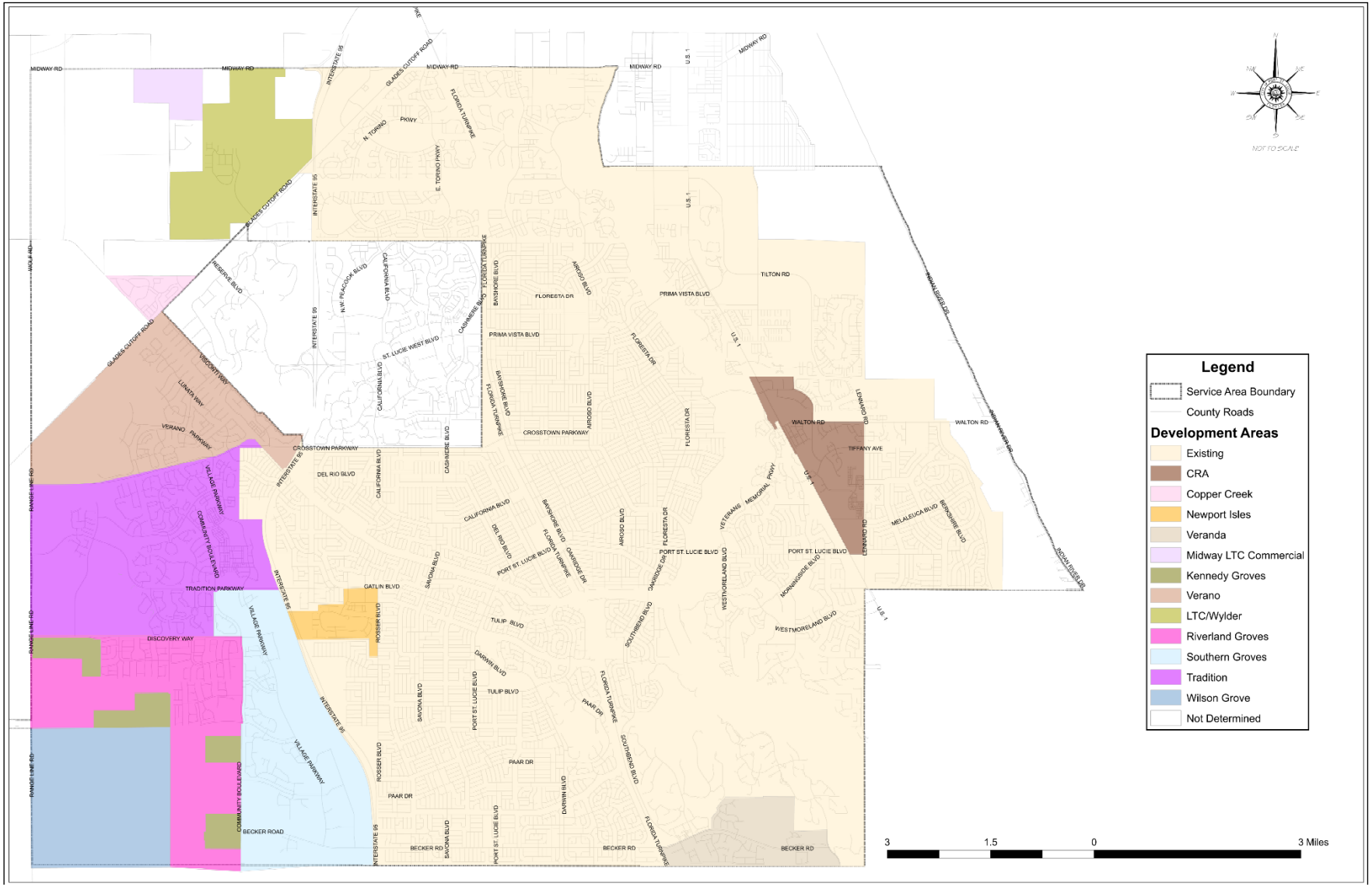
As of March, 2023, the system is comprised of approximately 90,648 active water connections and 73,896 active wastewater connections. Approximately quarter of the Utility Service Area is undeveloped and several large, planned development projects have been designed and planned for future construction as economic conditions warrant.

The City currently owns its potable water, wastewater, and reuse systems, which are operated and maintained by the City's Utility Systems Department. The existing potable water system consists of three (3) water supply and treatment facilities, five (5) water storage and re-pump stations, and transmission and distribution infrastructure. The wastewater system consists of a network of gravity collection, low pressure force mains, lift stations force mains, three (3) major inline regional wastewater booster stations, two (2) regional wastewater treatment facilities and effluent disposal facilities consisting of reclaimed water and deep injection wells. The City's water and wastewater treatment facilities are located on **Figure-2.**

2.1.2 St. Lucie West Services District

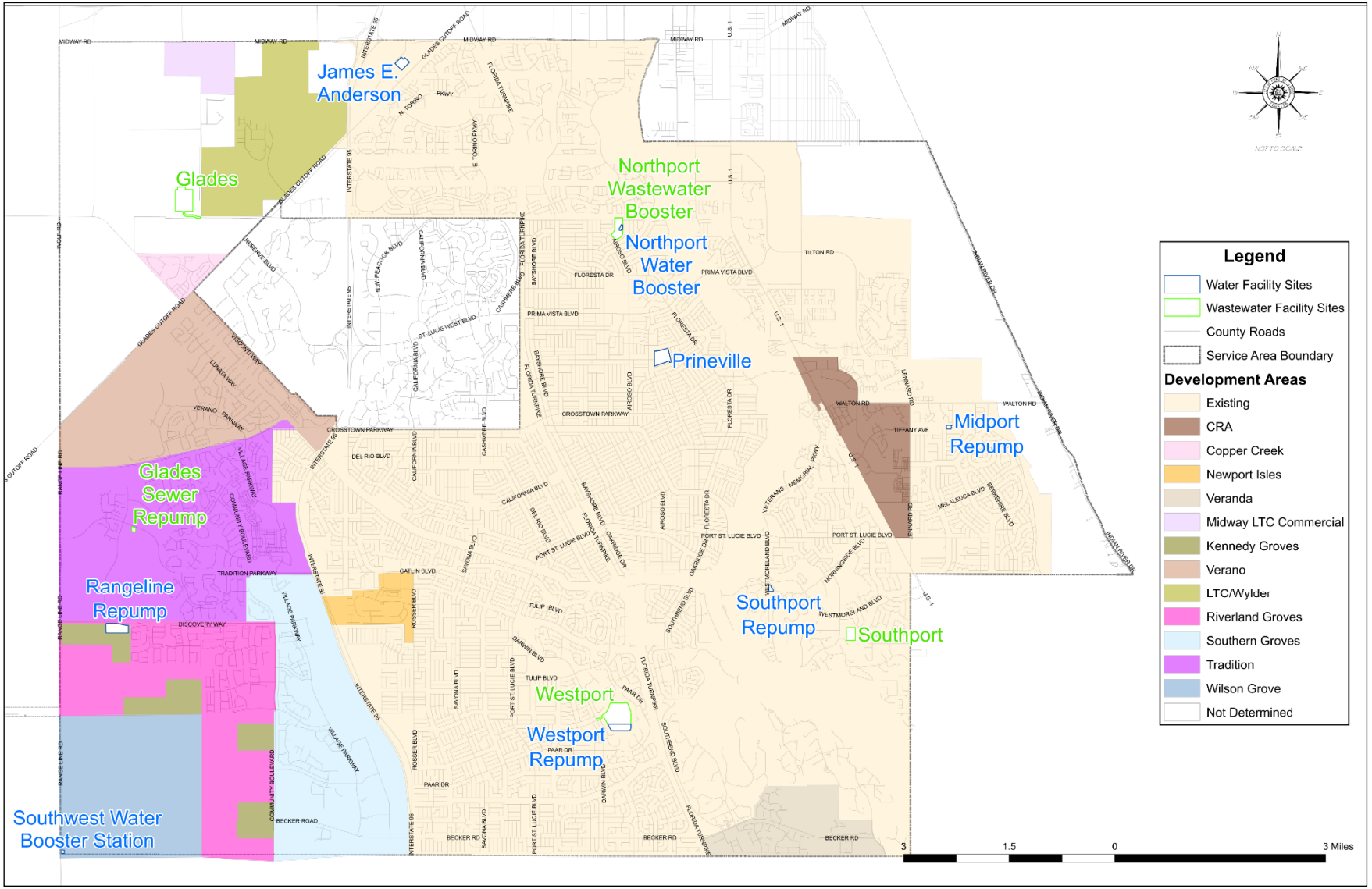
The St. Lucie West Services District (SLWSD) provides potable water for its seven square mile service area. The water supply for the St. Lucie West WTP facility is withdrawn from the brackish Floridan aquifer with treatment provided by a reverse osmosis (RO) water treatment plant. The brine concentrate from this process, which is approximately twenty five (25) percent of the raw water processed, is disposed of by deep well injection at the SLWSD owned and operated wastewater treatment plant. The St. Lucie West Water Treatment Plant facilities are not owned or operated by the Port St. Lucie Utility Systems Department (PSLUSD). They are owned and operated by the St. Lucie West Services District. However, PSLUSD has two (2) emergency potable water inter-connections with St. Lucie West.

Figure-1. Service Area and Development Area



Source: City of Port St. Lucie Utilities Information System, 2023

Figure-2. Service Area and Water Facilities



Source: City of Port St. Lucie Utilities Information System, 2023

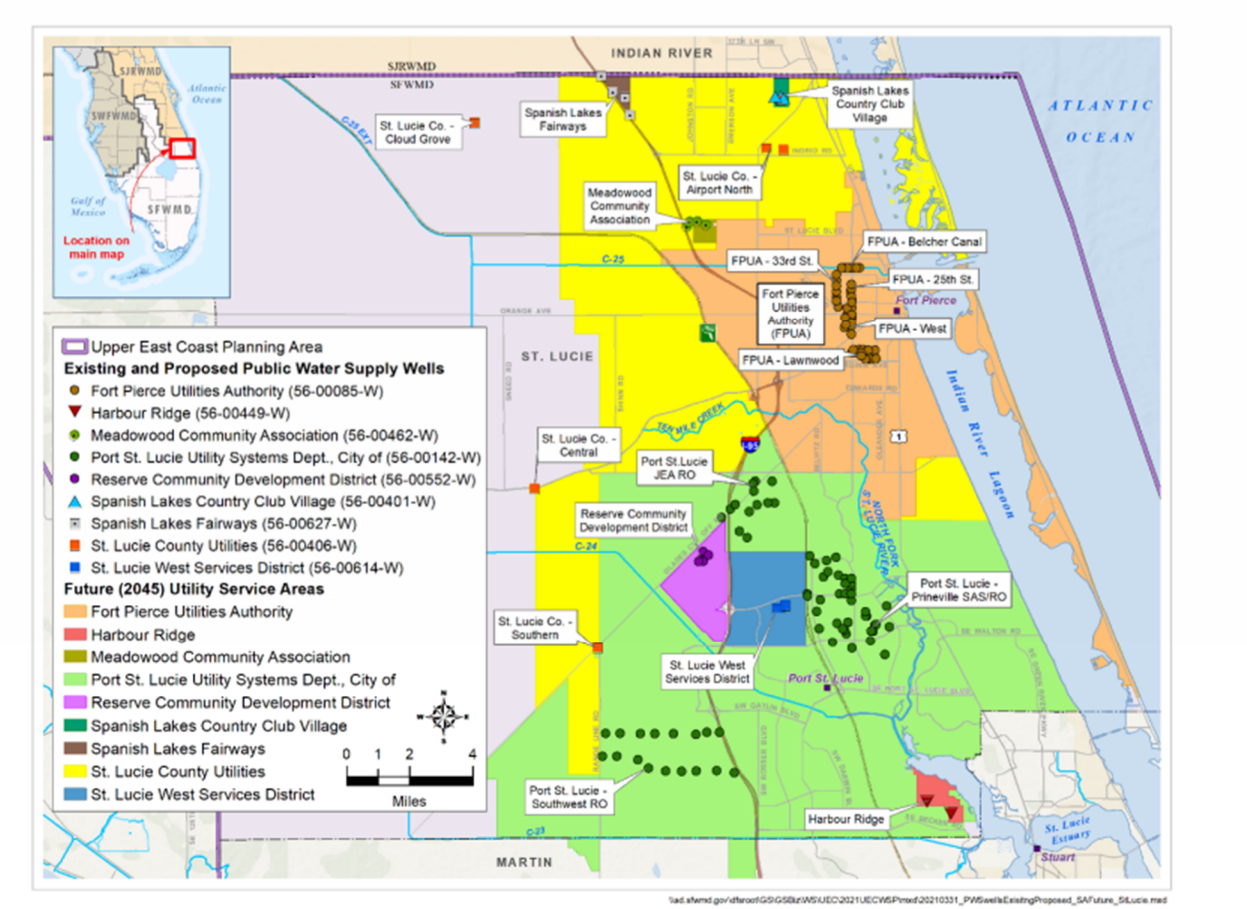


Figure B-4. Projected (2045) public supply utility service areas in St. Lucie County.

Source: 2021 SFWMD Regional Supply Plan

2.1.3 The Reserve

The Reserve, a large development surrounded by City limits, is also outside of the Port St. Lucie Utility Systems Department's (PSLUSD) service area. A portion of the Reserve (336.42 acres – the Go Team Industrial Park) does fall within the City's municipal boundaries, with the rest of the Reserve's acreage falling within St. Lucie County (**Figure-3**). The Reserve development owns and operates its own water and wastewater treatment facilities. The City does not supply potable water to the Reserve. The Reserve is served with potable water by the Reserve Utility Corporation which is operated by the Reserve Community Development District. Additionally, the Reserve development is partially served by the St. Lucie West Services District.

2.1.4 Harbor Ridge

Harbor Ridge, a golf community along the St. Lucie River at the southeastern border of the City, is outside of the PSLUSD service area. The community sits on approximately 885 acres and contains 695 residences, as well as amenities. Currently, Harbor Ridge has its own water and wastewater treatment facilities. Their water treatment facility has a capacity of 360,000 gallons per day.

2.1.5 Other Unincorporated Areas

Unincorporated residents not receiving potable water from the County, Cities or Private Utilities obtain water from private wells or through small self-supply facilities including mobile home parks or water associations.

2.1.6 Back-up System Interconnects

Consistent with the SFWMD's policy, the Water System interconnects to the St. Lucie West Services District's water system, Fort Pierce Utilities Authority's ("FPUA") water system and the Martin County water system, through metered interconnections. Separate Interlocal agreements exist with each of the interconnected utilities; however, none of the agreements provide permanent long-term water supply capacity, they only address emergency and/or water shortage capacity.

The Martin County interconnect has not been used since additional system capacity was brought on line in 1999.

In early 2005, a second interconnection was made with the St. Lucie West Services District's water system utility. This interconnection was made under emergency conditions when the St. Lucie West CDD water system failed to operate and they purchased bulk water from the City during an eight-month period.

The interconnection with FPUA was opened February 2011 and FPUA purchased supplemental water from the City during a two-day period. In 2016, a second interconnection was made with FPUA at Easy Street and Highway U.S. 1 in unincorporated St. Lucie County. On January 25, 2022, FPUA experienced an emergency and purchased supplemental water from the City during a one-day period.

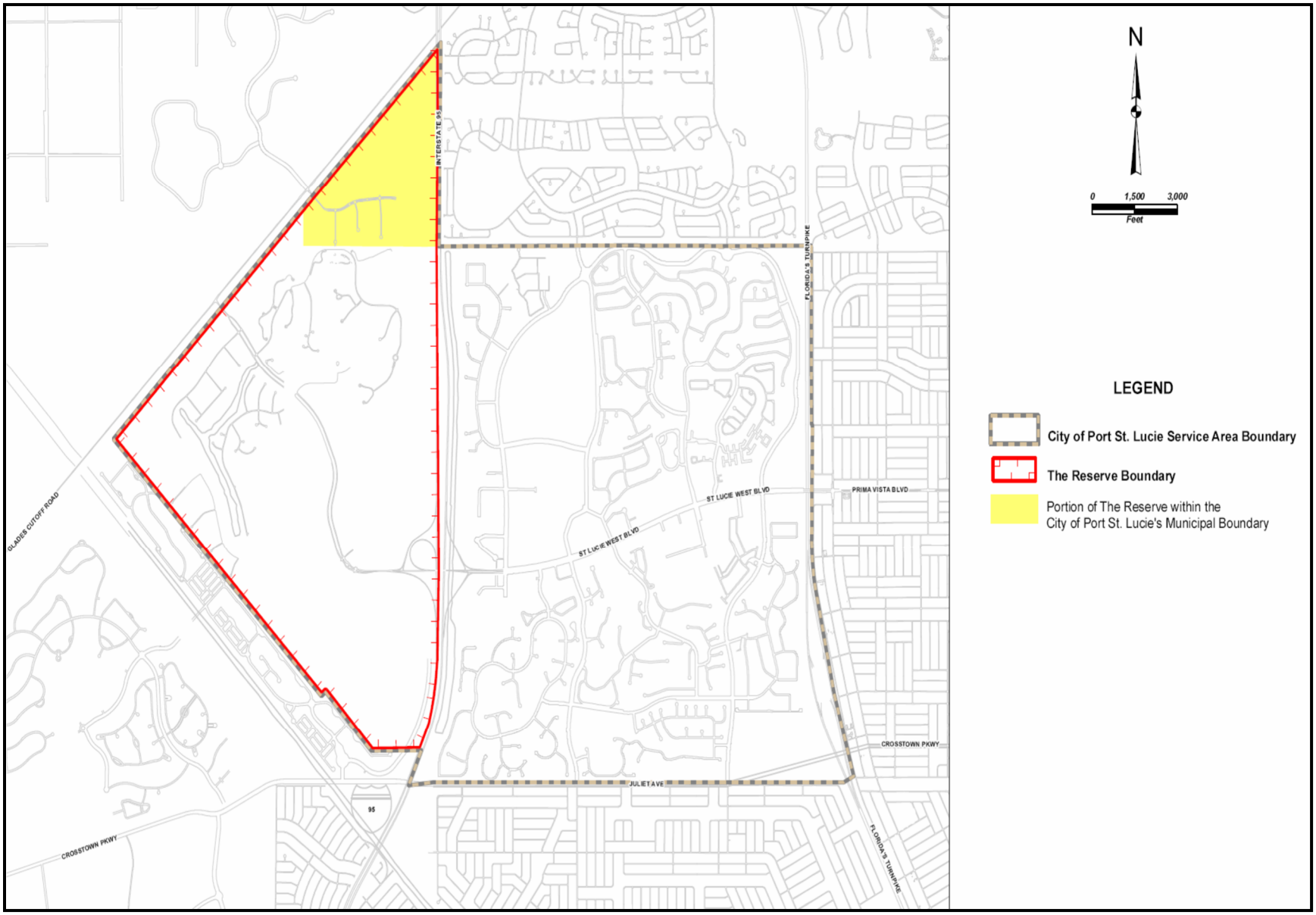
An interconnection with St. Lucie County Utilities was located near the intersection of Midway Road and Glades Cut-Off Road; however, it has since been abandoned in place as it is tied to a dead-end line on St. Lucie County's side.

Since the City of Port St. Lucie currently does not provide potable water services to the St. Lucie West or the Reserve service areas, the City does not have any water supply plans for these areas, nor anticipates any in the near future. The City of Port St. Lucie assumes that the St. Lucie West Services District has sufficient water supply plans to meet the similar requirements for the District's 10-Year Plan and have submitted their own water supply plan to the South Florida Water Management District under separate cover.

2.2 Water Supply Sources

The City of Port St. Lucie's raw water supply is currently provided from two groundwater supplies known as the surficial aquifer and brackish Floridan Aquifer. The withdrawal rates from both aquifers are limited per the Consumptive Use Permit Modification 56-00142-W issued on November 3, 2010 and will expire in 2028 **(Appendix-A).** The permit is currently in the process of being renewed. The total annual allocation is not to exceed 18,754 MG (51.38 MGD) and the monthly allocation is not to exceed 1,906.6 MG (63.6 MGD).

Figure-3. The Reserve Water Service Area



2.2.1 Surficial Aquifer

Originally constructed in the 1960s and 1970s by General Development Utilities, the groundwater supply for the original Prineville Lime Softening WTP facility is from the surficial aquifer. Raw water supply from the surficial aquifer is currently withdrawn from a combination of twenty-nine (29) shallow wells and there are four (4) proposed wells in the future. The locations of the wells are depicted in **Figure 4.** These wells supply raw water to the Prineville Lime Softening WTP and are further described in **Table-2** on the following pages.

The withdrawal limitations from the surficial aquifer are as follows per the current Consumptive Use Permit:

Average Annual allocation: 1,825 MG (5.00 MGD)
Maximum Monthly allocation: 186 MG (6.11 MGD)

2.2.2 Brackish Groundwater

The second groundwater supply for the City's potable water system is from the upper Floridan Aquifer. The Floridan Aquifer groundwater is a brackish groundwater and is considered an alternative water supply since the chloride contents is greater than 1,000 mg/L. Withdrawals of the Floridan Aquifer groundwater are from 19 existing wells and 17 proposed wells. The locations of the wells are depicted in **Figures 4 and 5.**

Withdrawal limitations from the Floridan Aquifer are as follows per the current Consumptive Use Permit:

Average Annual allocation: 16,929.0 MG (46.38 MGD)
Maximum Monthly allocation: 1,726.6 MG (57.55 MGD)

2.3 Water Supply Plants

The two groundwater sources are treated by three existing water treatment plants (WTP's) to meet the City's potable water needs: the Prineville Lime Softening WTP, the Prineville Reverse Osmosis (RO) WTP and the James E. Anderson Reverse Osmosis WTP.

The Prineville Lime Softening WTP was originally constructed in 1963, and has since undergone a sequence of modifications over the past forty plus years. The Prineville RO facility was originally constructed in 1999, and was expanded in 2003 to its build-out design capacity. Capacity details are presented in **Table-2.**

The James E. Anderson RO WTP was initially constructed in 2005, expanded to a build out capacity of 22.5 MGD in 2008. Capacity details are presented in **Table-1.**

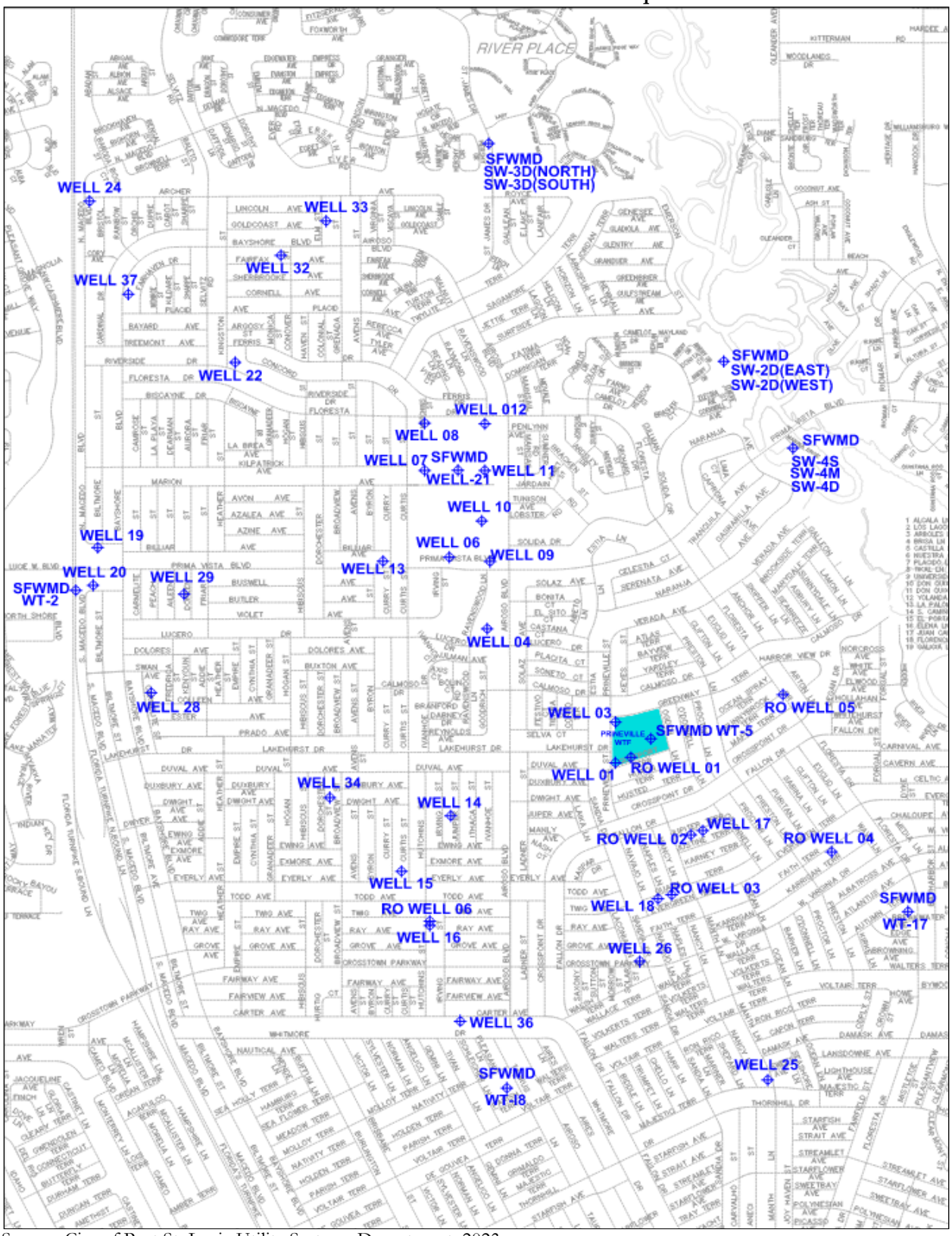
Table-1. Summary of FDEP Capacities for Existing Water Treatment Plants

DESCRIPTION	PRINEVILLE WTP LIME SOFTENING	PRINEVILLE WTP REVERSE OSMOSIS	JAMES E. ANDERSON WTP
Source Supply	Surficial Aquifer	Floridan Aquifer	Floridan Aquifer
Rated Permit Capacity in maximum daily flow (MDF -MGD)	8.0	11.15	22.5
Build-out Capacity (MGD)	8.0	11.15	22.5
Storage Capacity (MG)	Included with RO	5.6	8.0
Build-out Storage Capacity (MG)	Included with RO	8.0	12.0
Design High Service Pump Capacity (MGD) at Build-out	11.15	18.01	31.5

Note: Prineville storage capacity is blended Lime Softening plus RO.

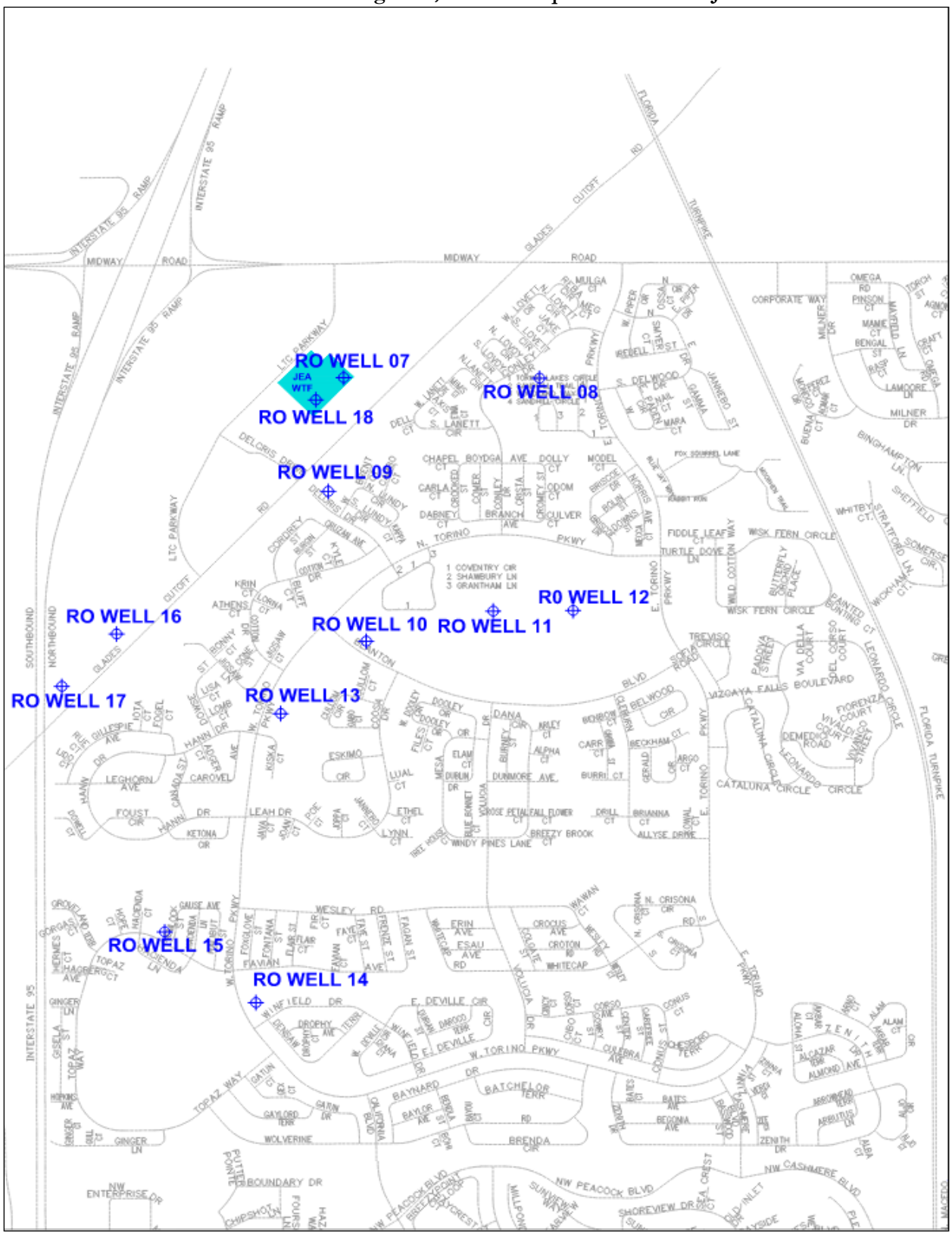
Prineville High Service Pumps are located at the two plants but are supplied from the blended Lime Softening plus RO.

Figure-4, Surficial and Floridan Aquifer Wellfield – Prineville WTP



Source: Ciry of Port St. Lucie Utility Systems Department, 2023

Figure-5, Floridan Aquifer Wellfield – James E. Anderson WTP



Source: Ciry of Port St. Lucie Utility Systems Department, 2023

Table-2. Well Description

WELL DIAMETER (INCH)	TOTAL DEPTH (FT)	CASED DEPTH (FT)	PUMP CAPACITY (GPM)	WELL ID #	STATUS
Surficial Aquifer					
16	95	60	600	1	Existing
16	90	45	400	3	Existing
16	111	76	275	4	Existing
16	111	76	275	6	Existing
16	111	69.5	265	7	Existing
16	111	75	200	8	Existing
16	110	65	320	9	Existing
16	110	70	320	10	Existing
16	111	71	180	11	Existing
16	111	71	225	12	Existing
16	99.5	54.5	190	13	Existing
16	100	60	300	14	Existing
16	99.5	64.5	300	15	Existing
16	90	55	300	16	Existing
16	110	55	300	17	Existing
16	95	50	100	18	Existing
16	95	60	275	19	Existing
16	105	57	350	20	Existing
16	99.5	59	300	22	Existing
12	107	23	120	24	Existing
12	111	61	140	25	Existing
24	85	52	180	26	Existing
20	100	60	350	27	Proposed
12	107	23	500	28	Existing
12	99	40	350	29	Existing
20	100	60	350	30	Proposed
20	100	60	350	31	Proposed
12	103	60	230	32	Existing
12	84	51	220	33	Existing
12	90	67	365	34	Existing
20	100	60	350	35	Proposed
24	91	63	515	36	Existing
24	97	64	520	37	Existing
Floridan Aquifer					
16	1,350	650	1,700	F-1	Existing
17	1,350	650	1,700	F-2, F-3, F-5, F-6	Existing
20	1,350	650	1,700	F-4, F-7, F-8, F-9	Existing
17	1,350	750	1,780	F-10 to F-12	Existing
17	1,350	750	1,780	F-13 to F-18	Existing
17	1,350	750	1,840	F-19	In Construction
17	1,250	1,200	1,840	F-20	Proposed
17	1,250	845	1,840	F-21	Existing
17	1,350	1,350	1,840	F-22	Proposed
17	1,350	750	1,840	F-23 to F-36	Proposed

2.4 Finished Water Storage and Distribution

In addition to the water treatment facilities, the City has several remote potable (finished water) water storage and repump facilities known as the Midport Repump, Westport Repump, Southport Repump, Southwest Booster and Rangeline Road Repump Booster Stations. These remote repump facilities are needed to maintain minimum residual pressure throughout the distribution system **(Table-3**).

Table-3, Summary of Existing Water Repump Stations

DESCRIPTION	MIDPORT REPUMP	SOUTHPORT REPUMP	WESTPORT REPUMP	RANGELINE REPUMP
Existing Storage Capacity (MG)	3.5	3.00	2.00	4.00
Build-out Storage Capacity (MG)	3.5	6.00	4.00	12.00
Design Pump Capacity (MGD)	5.76	7.77	6.05	10.0

Potable water is distributed to the City's customers via high service pumps, re-pump stations, and water transmission and distribution mains. The water transmission and distribution system consists of water mains ranging in size from four inches (4-inch) to thirty-six inches (36-inch) in diameter. The transmission system includes 10-inch diameter and larger pipes, while the distribution system includes 8-inch diameter and smaller pipes. The existing water transmission and distribution system is shown on **Figure-6**.

2.5 Wastewater Treatment / Reclaimed Water Plants

The City's wastewater system is currently served by two wastewater treatment plants (WWTPs). These WWTPs are the Westport WWTP and the Glades WWTP which are detailed in **Table 4.**

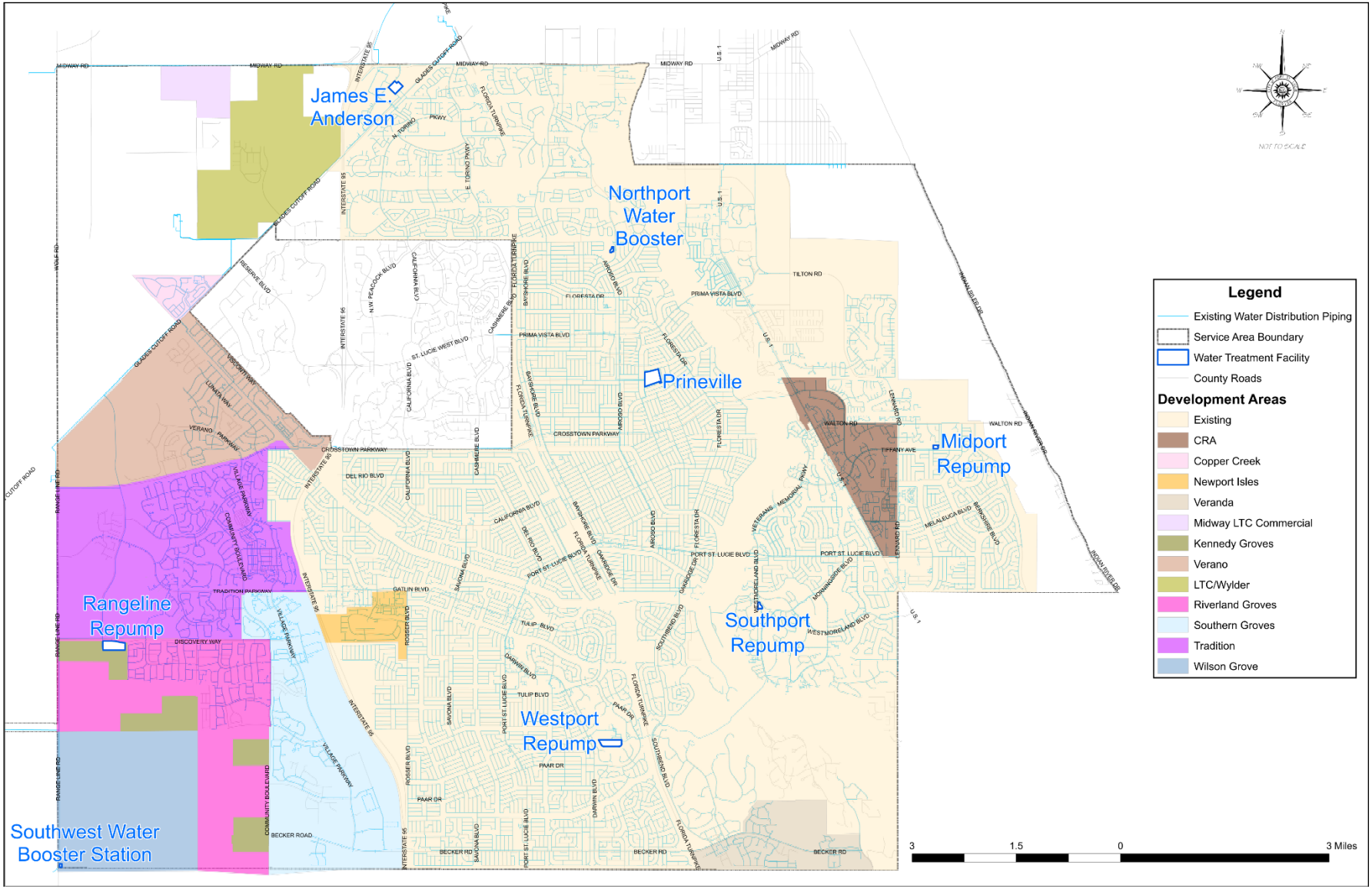
Effluent disposal practices at the WWTPs consist of reuse of reclaimed water, deep well injection, and rapid infiltration basins (RIBS). The RIBs only exist at the Westport WWTP. Filtration and high-level disinfection components at the Westport WWTP provide up to approximately 6.0 mgd of irrigation quality effluent for disposal by spray irrigation at the Ballantrae Golf & Yacht Club, at golf courses within The Tesoro Club and The Floridian, and at common areas of the Veranda communities along Becker Road. Additionally, the Glades WWTP has been designed to provide reclaimed water for irrigation purposes. The City has contracted with Copper Creek and Verano PUDs for reclaimed water irrigation services and will provide reuse water upon completion of their developments. Wastewater which is used for irrigation water will be treated with high level disinfection. Wastewater that is not used for irrigation is disposed of in a deep injection well.

The City of Port St. Lucie has expanded the Westport WWTP to 6.0 MGD with a build-out capacity of 12.0 MGD. The Southport WWTP was decommissioned upon completion of the expansion of the Westport WWTP. The Southport WWTP services area is diverted to the Westport WWTP.

Table-4. Summary of Existing Wastewater Treatment Plants

DESCRIPTION	GLADES WWTP	WESTPORT WWTP	SOUTHPORT WWTP
Existing Treatment Capacity (MGD)	12.0	6.0	Decommissioned
Build-out Treatment Capacity (MGD)	24.0	12.0	Decommissioned

Figure-6. Existing Water Distribution System



Source: City of Port St. Lucie Utilities Information System, 2023

2.6 Conservation

The City's water conservation program complies with the conditions imposed by South Florida Water Management District in its Water Use Permit, No. 56-00142-W. The plan for the City to comply with the District conditions has been strengthened by the adoption of several City Codes (Code excerpts 65.01 and 65.02 presented in **Appendix-B**). The City has also implemented and is enforcing water use restrictions as stated in the Code excerpt 65.04 to 65.07 (Water Shortage Codes). The specific elements of the water conservation plan are as follows:

1.) A rate structure has been implemented by the City in a strong effort to promote water conservation. The water rate increases by 30% and 60% of the basic rate for consumption higher than 5,000 and 12,000 gallons per connection and per month, respectively.

2.) The City's Code of Ordinances specifies that State building codes are followed and Section 604.4 of the State Plumbing code specifies maximum flow rates and consumption from plumbing fixtures and fittings in new construction.

3.) The City is operating and maintaining their water facilities and water distribution system such that the unaccounted water loss has been averaging approximately 8.56%.

4.) The City has implemented a Water Conservation Education Program and holds activities related to National Water Week through the American Water Works Association (AWWA), such as elementary school education and poster contests.

5.) The City has implemented a comprehensive reclaimed water program that has a goal to optimize the use of reclaimed water by meeting reclaimed water quality standards at the wastewater treatment facilities and by constructing reclaimed water mains in the western side of the City.

6.) The City has implemented an ordinance for Mandatory Year-Round Landscape Irrigation Conservation Measures that was adopted by the City Council on February 25, 2019 as found in the municipal code Sec. 65.07 (**presented in Appendix-B**).

2.7 Intergovernmental Coordination Activities

The City of Port St. Lucie Utility Systems Department (USD) is working in conjunction with the Public Works Department and Florida Department of Environmental Protection (FDEP) to meet Basin Management Action Plan (BMAP) requirements and reporting. The BMAP sets goals to reduce the total nitrogen (total N) and total phosphorus (total P) discharge to waterways, such as the St. Lucie River, C-23 and C-24 canals.

As part of this effort, the Utility Systems Department is upgrading its wastewater process at the Westport Wastewater Treatment Facility (WWTF) to advanced wastewater treatment (AWT). AWT will reduce the total N and total P produced during the treatment process. The Westport WWTF produces reuse for recreational and residential customers in the southeastern portion of the City. AWT ensures the WWTF remains in compliance with all FDEP and BMAP requirements and protects our waterways.

The USD has also been diligently working on its 'Septic to Sewer' program, including obtaining grant funding via the Indian River Lagoon (IRL) Water Quality Improvement Grant. This encourages homeowners to connect to the USD system, further reducing nutrient loads.

The City of Port St. Lucie (City) is currently the fifth fastest growing city in the United States, as such, the USD works with their partners in both within the City (Planning and Zoning, Public Works, City Hall, etc.) and developers to address the needs of incoming residential and commercial developments.

Beyond the City limits, the USD also serves areas in St. Lucie County and Martin County, which means partnering with other municipalities to meet their needs as well. As noted in the South Florida Water Management Districts (SFWMD) 2021 Upper East Coast (UEC) Plan Update, Port St. Lucie's projected growth must be addressed in order to meet demand.

This information is being used to update our Water Master Plan, which will be completed in mid-2024, and model/project future needs.

As a result, the USD has projected the need for additional water and wastewater capacity, which includes the addition of the Rangeline Water Treatment Facility (WTF) at 10MGD in western Port St. Lucie, and the expansion of the existing Glades WWTF by 12MGD.

Currently, the USD has been working on a water farming project in conjunction with the SFWMD on the McCarty Ranch property. This project will provide storm water from the C-23 canal to feed raw water to the future Rangeline WTF.

To reduce the use of potable water for irrigation purposes, reuse ponds have been constructed throughout the service area. Currently, the Westport WWTF is near max capacity for reuse customers, servicing both recreational and residential customers. The Glades WWTF has begun bringing customers online, with further expansion in planning as growth continues to the north and west.

The USD obtained a grant from SFWMD to expand the reuse system from Glades WWTF south to the Tradition Community Development District (CDD). Currently, Tradition CDD has its own irrigation company, however, as they reach maximum capacity, the USD will have the ability to serve the additional residential and commercial customers.

The USD has interlocal agreements with the St. Lucie County, Fort Pierce Utility Authority, St. Lucie West Service District, and Martin County to provide water in an emergency situation via strategically locate interconnects. At this time there are no standing MOU's or bulk agreements.

SECTION 3.0
LAND USE, POPULATION & WATER PROJECTIONS

3.1 Future Land Use

The predominant land use in the City has been low density residential, commercial use and industrial use. Historically, lands in the surrounding areas to the west of the City were utilized for agricultural and farming purposes. However, the growth trends in land development have recently shifted the western area of the City towards a greater mix of residential and commercial. The predominant future land use in the City of Port St. Lucie is Low Density Residential making up 43% of the total land area. The next largest land use will be for New Community Development (NCD) which accounts for approximately 20 percent of the total land area in the City. The future land uses are shown below.

Table-5. Future Land Uses

FUTURE LAND USE		ACREAGE	PERCENT
CG	Commercial General	1017.00	1.32%
CG/CH	Commercial General/ Highway Commercial	8.99	0.01%
CG/CH/ROI	Commercial General/ Highway Commercial/ Medium Density Residential Office Institutional	82.20	0.11%
CG/CS/CH/LI	Commercial General/ Highway Commercial/ Service Commercial/Light Industrial	30.46	0.04%
CG/CS/ROI	Commercial General/ Service Commercial/ Medium Density Residential Office Institutional	3.38	0.00%
CG/I	Commercial General/ Institutional	149.44	0.19%
CG/OSR/I	Commercial General/ Open Space- Recreation/ Institutional	51.13	0.07%
CG/RH/I	Commercial General/ High Density Residential/ Institutional	127.39	0.17%
CG/RH/OSR/I	Commercial General/ High Density Residential/ Open Space- Recreation/ Institutional	17.29	0.02%
CG/ROI	Commercial General/ Medium Density Residential Office Institutional	133.40	0.17%
CG/ROI/RL	Commercial General/ Medium Density Residential Office Institutional/Low Density Residential	10.25	0.01%
CH	Highway Commercial	53.00	0.07%
CH/CG	Highway Commercial/ Commercial General	95.76	0.12%
CH/CG/I	Highway Commercial/ Commercial General/ Institutional	72.21	0.09%
CH/CG/RH/I	Highway Commercial/ Commercial General/ High Density Residential/ Institutional	57.46	0.07%
CH/CG/ROI	Highway Commercial/ Commercial General/ Medium Density Residential Office Institutional	5.57	0.01%
CH/CS/LI	Highway Commercial/ Service Commercial/ Light Industrial	18.61	0.02%

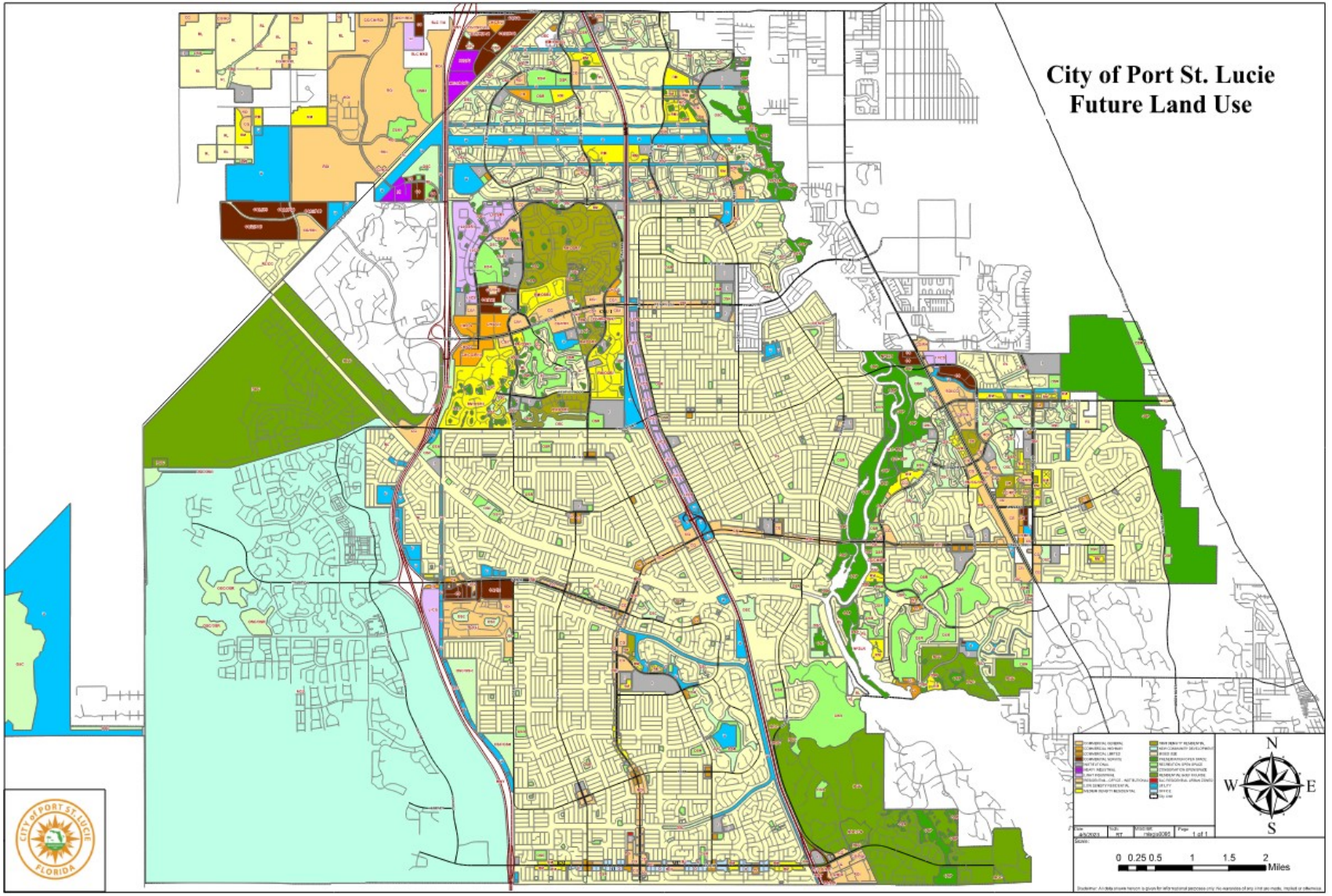
CH/RH	Highway Commercial/ High Density Residential	10.15	0.01%
CL	Limited Commercial	186.74	0.24%
CL/ROI	Limited Commercial/ Medium Density Residential Office Institutional	2.57	0.00%
CS	Service Commercial	168.06	0.22%
CS/CG	Service Commercial/ Commercial General	31.46	0.04%
CS/CH	Service Commercial/ Highway Commercial	81.96	0.11%
CS/LI/HI	Service Commercial/ Light Industrial/ Heavy Industrial	83.08	0.11%
CS/LI/HI/ROI	Service Commercial/ Light Industrial/ Heavy Industrial/ Medium Density Residential Office Institutional	53.69	0.07%
CS/LI/ROI	Service Commercial/ Light Industrial/ Medium Density Residential Office Institutional	419.73	0.54%
CS/RH/I	Service Commercial/ High Density Residential/ Institutional	64.63	0.08%
CS/ROI	Service Commercial/ Medium Density Residential Office Institutional	11.58	0.02%
HI	Heavy Industrial	58.61	0.08%
HI/LI/ROI/U	Heavy Industrial/ Light Industrial/ Medium Density Residential Office Institutional/ Utilities	65.52	0.09%
HI/LI/U	Heavy Industrial/ Light Industrial/ Utilities	54.55	0.07%
HWY	Highway	1168.24	1.52%
I	Institutional	1102.72	1.43%
I/LI	Institutional/ Light Industrial	0.71	0.00%
LI	Light Industrial	50.36	0.07%
LI/CS	Light Industrial/ Service Commercial	378.97	0.49%
LI/OSR/I	Light Industrial/ Open Space- Recreation/ Institutional	283.46	0.37%
MU	Mixed Use	7.11	0.01%
NCD	New Community District	14356.05	18.64%
NFSLR	North Fort St. Lucie River	541.18	0.70%
O	Office	93.57	0.12%
OSC	Open Space-Conservation	3162.88	4.11%
OSC/I	Open Space-Conservation/ Institutional	8.61	0.01%
OSC/OSR	Open Space-Conservation/ Open Space- Recreation	515.66	0.67%
OSP	Open Space- Preservation	2919.25	3.79%
OSR	Open Space- Recreation	2340.27	3.04%
OSR/I	Open Space- Recreation/ Institutional	168.00	0.22%
OSR/LI	Open Space- Recreation/ Light Industrial	15.53	0.02%
RGC	Residential Golf Course	5410.14	7.02%
RGC/CG	Residential Golf Course/Commercial General	65.57	0.09%
RH	High Density Residential	103.33	0.13%
RH/CG	High Density Residential/ Commercial General	3.82	0.00%

RH/OSR/I	High Density Residential/ Open Space- Recreation/ Institutional	1050.88	1.36%
RL	Low Density Residential	30392.20	39.46%
RL/CG	Low Density Residential/ Commercial General	284.93	0.37%
RM	Medium Density Residential	958.72	1.24%
RM/CG/OSC	Medium Density Residential/ Commercial General/ Open Space-Conservation	64.04	0.08%
RM/OSR/I	Medium Density Residential/ Open Space-Recreation/ Institutional	800.80	1.04%
RM/ROI/CG	Medium Density Residential/ Medium Density Residential Office Institutional/ Commercial General	14.25	0.02%
ROI	Medium Density Residential Office Institutional	2562.08	3.33%
ROI/CG	Medium Density Residential Office Institutional/ Commercial General	65.18	0.08%
ROI/LI	Medium Density Residential Office Institutional/ Light Industrial	275.42	0.36%
SLC MXD	Mixed Use District (St. Lucie County)	75.89	0.10%
SLC OSP	Open Space- Preservation (St. Lucie County)	51.42	0.07%
SLC ROI	Medium Density Residential Office Institutional (St. Lucie County)	5.01	0.01%
SLC RU	Residential Urban (St. Lucie County)	2.03	0.00%
SLC T/U	Transportation Utilities (St. Lucie County)	41.37	0.05%
U	Utilities	4422.56	5.74%
U/LI	Utilities/ Light Industrial	29.18	0.04%
TOTALS		**77,017.28**	**100.0%**

Source: City of Port St. Lucie, 2020

The City's Planning and Zoning Department maintains a future land use map as presented in **Figure-7**. The future land use map was developed in April 2023 and is subject to continuous updating by the City.

Figure-7. Future Land Use Map



Source: City of Port St. Lucie, 2023

3.2 Developments of Regional Impact

At present, the City of Port St. Lucie has nine active Developments of Regional Impact (DRI). The list of DRIs, their development thresholds, and approval dates are shown in the following **Table-6**. With the exception of the St. Lucie West DRI and the Reserve DRI, these DRIs represent annexations west of Interstate 95 that occurred between the years 2000-2006. Approximately 229 acres of the Reserve DRI fall within the municipal boundary of the City of Port St. Lucie, with the remainder located in St. Lucie County.

Table-6. Active Developments of Regional Impact

NAME	YEAR APPROVED	ACREAGE	DUS	RETAIL S.F.	INDUSTRIAL S.F.	OFFICE S.F.	RESEARCH & OFFICE S.F.	OTHER	EXPIRATION
LTC Ranch DRI	5/22/2000	2,455	2,500	305,000	980,100	349,750			2039
PGA Village DRI (Verano)	10/27/2003	3,026	6,000	225,000		25,000		Hotel Room 250	2023
Riverland Kennedy(GL Homes) DRI	10/9/2006	3,845	11,700	892,668	1,361,250		1,361,250		2028
Southern Grove DRI (current)	4/9/2012	3,606	7,388	3,675,075	4,583,336	2,430,728	2,498,602	Hotel Room 791 & 300 Hospital Beds	2039
St. Lucie West	2/9/1987	4,614	7,125	2,125,287	2,499,528	1,562,899		Hotel Room 800	2031
Tradition DRI	9/22/2003	2,667	5990	950,000	90,000	700,000		ALF 300	2035
Western Grove DRI	2/26/2007	1,941	4000	365,904		250,906			2027
Wilson Groves (Ansca) DRI	10/23/2006	2,499	7,700	765,000	1,361,250	1,583,250	1,361,250		2035

*The residential portion of the Reserve DRI is within unincorporated St. Lucie County. Source City of Port St. Lucie, 2020

3.3 Population and Need for Development

As required by Florida Statutes, the comprehensive plan must be based on at least the minimum amount of land required to accommodate the medium projections of the University of Florida's Bureau of Economic and Business Research for at least a 10-year planning period. In order to calculate the ability of the plan to accommodate projected population, the number of residential units that can be built on vacant lands and un-

built residential dwelling units in approved DRIs was totaled. According to the U.S. Census American Survey (2014-2018) there were 63,807 households in Port St. Lucie with an average household size of 2.87. An estimate was made of the population that might reside when the vacant lands and DRIs are built out. The following table **(Table-7)** shows that these lands can provide for more than 350,000 future residents which is more than the projected increase in population with a ten-year period and over the long term planning timeframe (2040).

Figure-8. Tradition/Western Grove Land Use Map

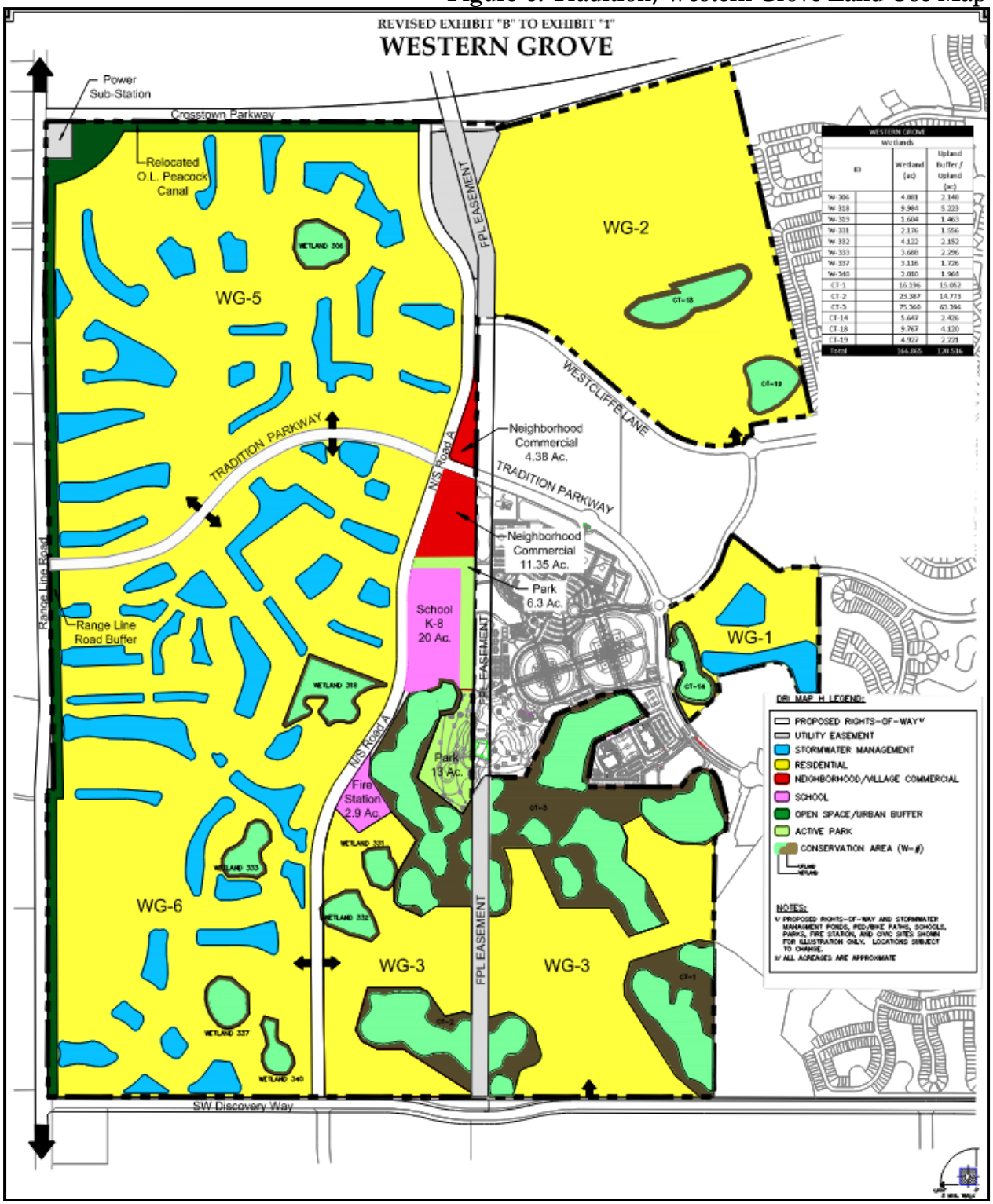


Figure-9. Southern Grove Land Use

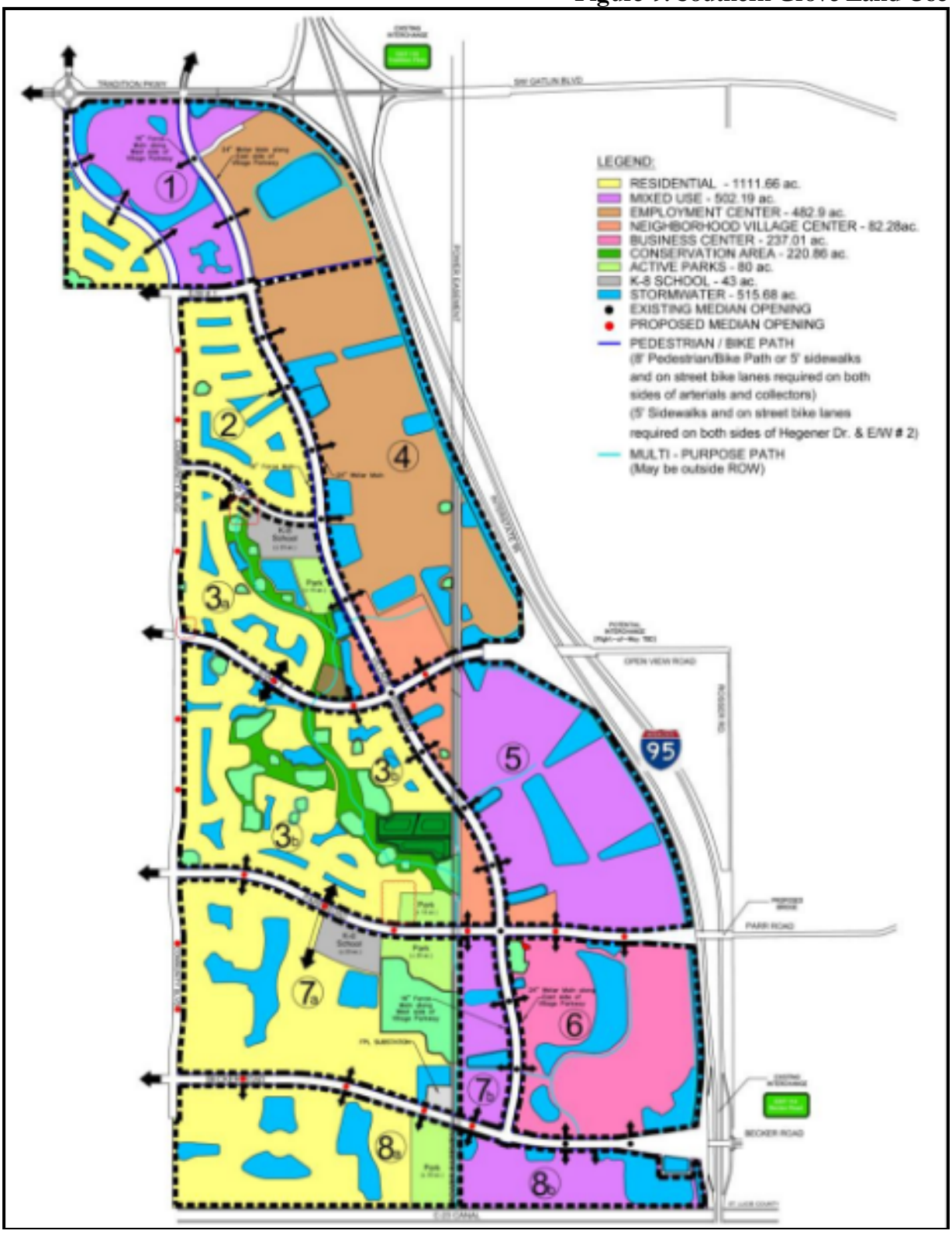


Figure-10. Riverland/Kennedy Land Use Map

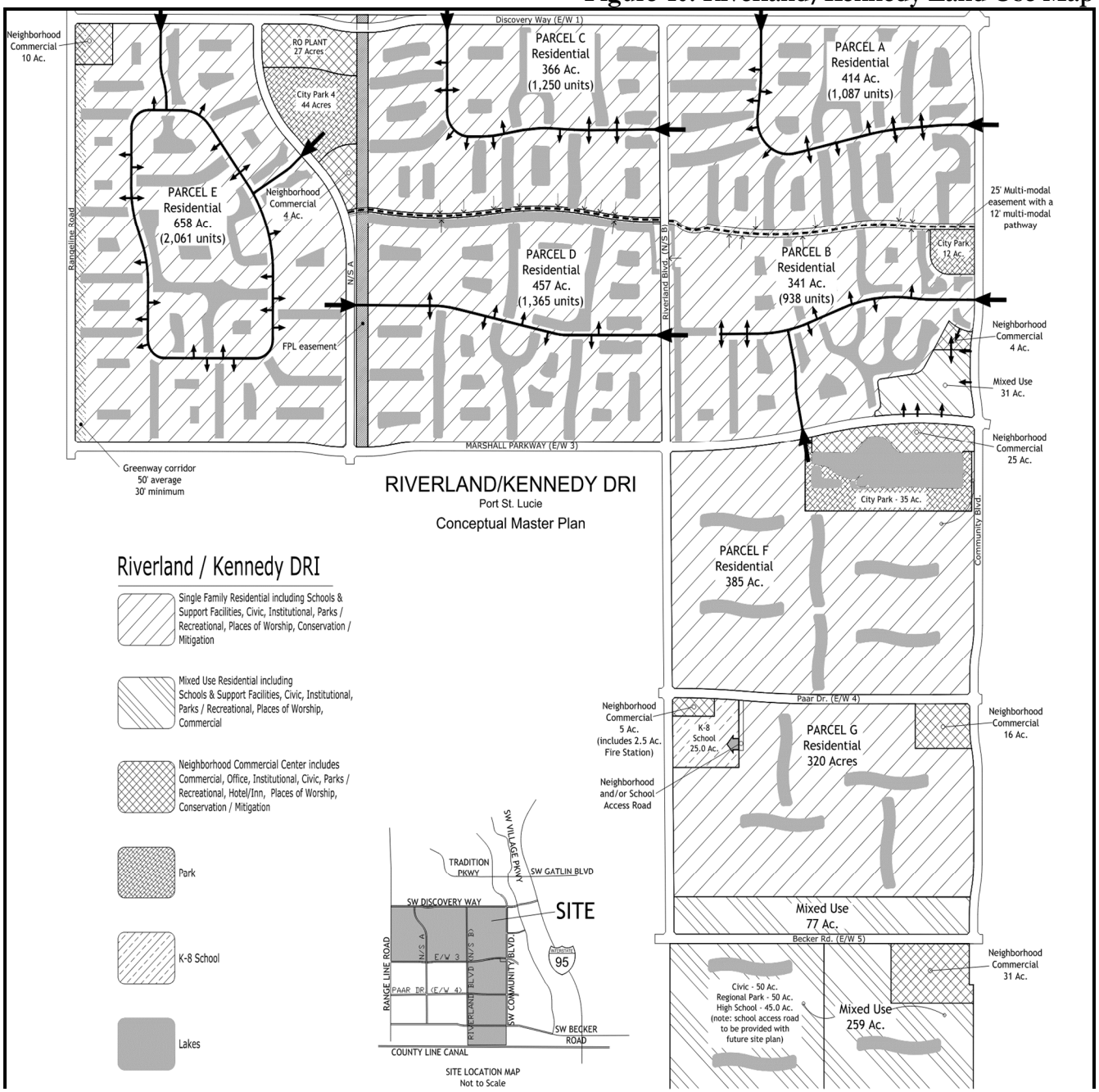


Figure-11. Wilson Grove Land Use

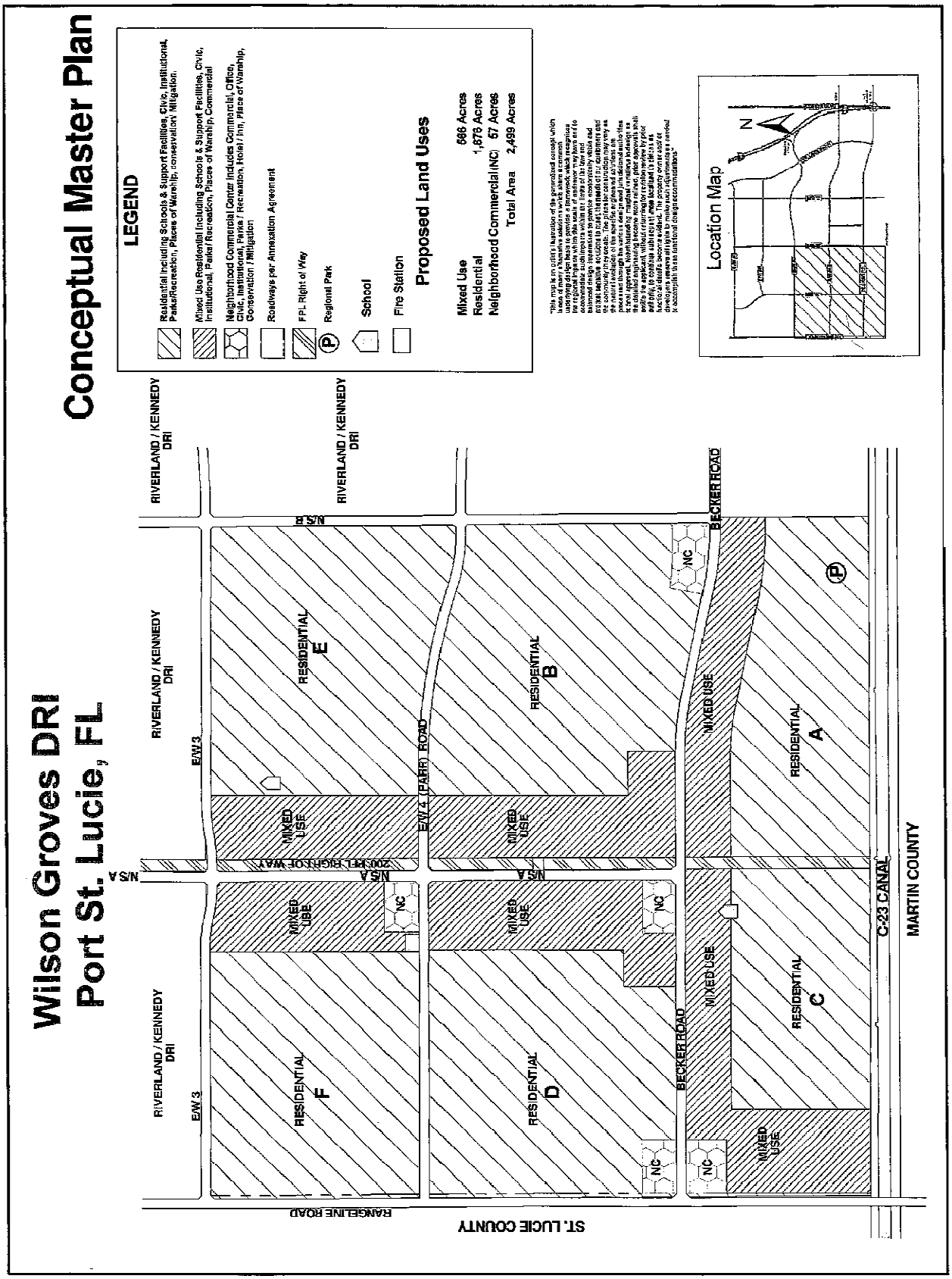
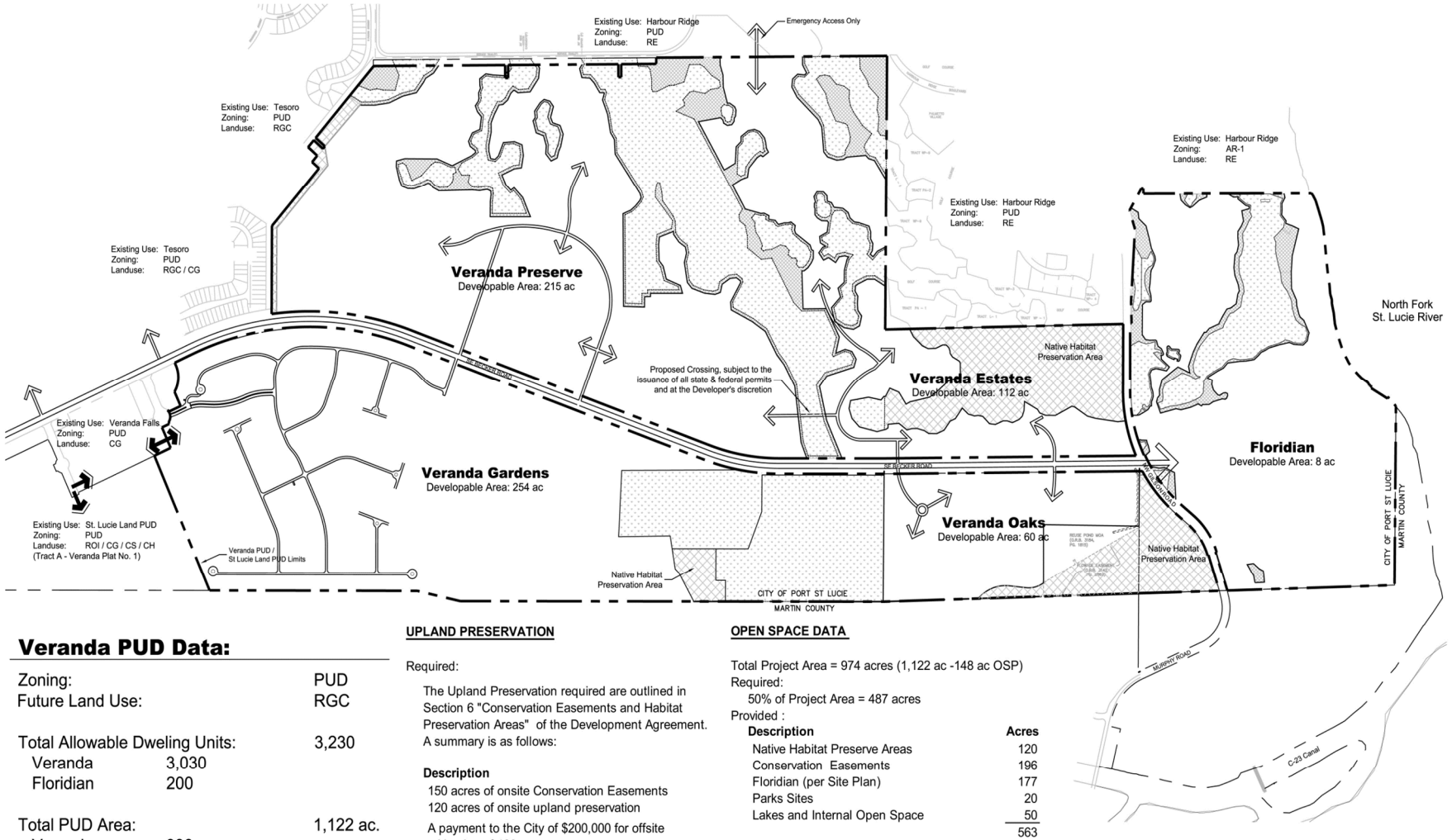


Figure-12. Veranda PUD



Veranda PUD Data:

Zoning:		PUD
Future Land Use:		RGC
Total Allowable Dweling Units:		3,230
Veranda	3,030	
Floridian	200	
Total PUD Area:		1,122 ac.
Veranda:	930 ac.	
Floridian:	192 ac.	

Total Net Residential Developable Area: 649 ac.

Note: All acreage rounded to nearest whole acre.

UPLAND PRESERVATION

Required:

The Upland Preservation required are outlined in Section 6 "Conservation Easements and Habitat Preservation Areas" of the Development Agreement. A summary is as follows:

Description

150 acres of onsite Conservation Easements
120 acres of onsite upland preservation

A payment to the City of $200,000 for offsite mitigation of 120 acres.

Provided :

Description	Acres
Native Habitat Preserve Areas	140
Conservation Easements	196

The City received the $200,000 from the St. Lucie Land SAD Series 2005 A Bond proceeds.

OPEN SPACE DATA

Total Project Area = 974 acres (1,122 ac -148 ac OSP)
Required:
50% of Project Area = 487 acres
Provided :

Description	Acres
Native Habitat Preserve Areas	120
Conservation Easements	196
Floridian (per Site Plan)	177
Parks Sites	20
Lakes and Internal Open Space	50
	563

Notes:
A total of 120 acres of upland preservation shall beprovided at the time of subdivision approval.

Table-7. Vacant Land and Ability to Accommodate Population

FUTURE LAND USE		MAX. RESIDENTIAL DENSITY (DU/ACRE)	VACANT ACREAGE	MAX. NUMBER OF DWELLING UNITS	POPULATION
RGC	Residential Golf Course	5	4,139.13	20,695	56,704
RH	High Density Residential	15	0.55	8	21
RL	Low Density Residential	5	6,653.39	33,266	91,148
RM	Medium Density Residential	11	400.78	4,408	12,077
ROI	Medium Density Residential Office Institutional	11	2,591.87	28,510	78,117
Un-built Dwelling Units in Approved DRIs		NA		44,414	121,694
Total Population to be Accommodated on Vacant Acres					**359,761**

Source: 2018 US Census, City of Port St. Lucie, 2020
Note: Based upon the 2018 Census average household size of 2.87 persons.

3.4 Population Projection

Following the housing recession, the pace of construction has increased significantly. The City has experienced extensive residential and commercial expansion by developers, particularly in the western portion of the City.

The City has determined the standard population projection models will more accurately reflect foreseeable growth patterns over the next decade. The City is currently experiencing increasing growth rates as shown in the provided historical data. Growth within the PSLUSD service area is expected to continue in two general areas:

1. In-fill of property within existing developed areas.
2. Large undeveloped tracts of land located primarily west of Interstate 95.

3.5 Population (Source Data) Within the PSLUSD Service Area

Population projections for the City of Port St. Lucie Utility Systems Department service area are from the SFWMD UEC Water Supply Plan for 2021. The projections are based upon the medium Bureau of Economic and Business Research (BEBR) projections for St. Lucie County. Per Chapter 163, F.S., the comprehensive plan shall be based upon permanent and seasonal population estimates and projections, which shall either be those provided by the University of Florida's Bureau of Economic and Business Research or generated by the local government based upon a professionally acceptable methodology. The plan must be based on at least the minimum amount of land required to accommodate the medium projections of the University of Florida's Bureau of Economic and Business Research (BEBR). **Table 8** depicts the population projection based on BEBR for the years 2019 to 2045.

Table-8. Population Projections based on SFWMD (BEBR)

ST. LUCIE	2019 POPULATION			2045 POPULATION		
Year	**PS**	**DSS**	**Total**	**PS**	**DSS**	**Total**
Population	272,297	37,060	309,357	459,716	33,085	492,801

Source: SFWMD UEC Water Supply Plan 2021: DSS = Domestic Self-Supply; PS = Public Supply

The population estimates for the Service Area could be adjusted to account for the subtraction of St. Lucie West and The Reserve while adding a portion of Unincorporated St. Lucie County served by PSLUSD but this effort yields an answer not significantly different from the original population for the City.

3.6 Water Demand Projections

The potable water demand projections for the City's Utility Service Area were based on the population projections and the historical per capita potable water usage. The City of Port St. Lucie Utility Systems Department (PSLUSD) has projected the per capita use rate (PCUR) of finished water to be 83. This average daily consumption number of 83 will be adopted by the City for current planning, although the level of service value of 115 gpcd is used by the PSLUSD to provide for more extreme drought occurrences when designing new facilities.

The per capita value of 83 gallons per day is calculated as a total value which includes residential, commercial, flushing, and unaccounted for water usage. Usage of residential water is approximately 79.13 percent, commercial usage is approximately 2.83 percent, and flushing water is approximately 9.48 percent. Applying these percentages to the total finished water usage yields the following:

Description	Percentage (%)
Residential Usage	79.13
Commercial Usage	2.83
Flushing Water	9.48
Unaccounted for Water	8.56
Total	100.0%

This breakdown percentage for unaccounted water was performed to disaggregate water demands from both the commercial and residential sectors, as well as to determine a per capita water use factor based on historical water usage. These calculations are not intended to change the level of service requirements currently found within the City's Comprehensive Plan. Instead, this calculation was required by the South Florida Water Management District as a part of the City's Consumptive Use Permit to accurately project future water demands.

Using the population projections for the City and the per capita water demand value of 83 gpd, the water demand projections presented are shown in Table 9. The projections in this 2023 Work Plan for the City of Port St. Lucie are higher than the projections presented in the prior 2017 Work Plan to reflect current housing development trends.

Table 9. Water Demand Projections

YEAR	POPULATION	PCUR	FINISHED WATER DEMAND MGD	RAW TO FINISHED FACTOR	RAW WATER DEMAND MGD	DROUGHT DEMAND FACTOR	1 IN 10 YR DROUGHT DEMAND MGD
2015	167,205	83	13.88	1.23	17.07	1.167	19.92
2020	204,851	83	17.00	1.23	20.91	1.167	24.40
2025	246,292	83	20.44	1.23	25.14	1.167	29.34
2030	278,239	83	23.10	1.23	28.41	1.167	33.16
2035	304,061	83	25.24	1.23	31.05	1.167	36.23
2040	325,265	83	27.00	1.23	33.21	1.167	38.76
2045	342,982	83	28.47	1.23	35.02	1.167	40.87

SECTION 4.0
10-YEAR WORK PLAN

Based on the water demand projections, it is anticipated that the City of Port St. Lucie will need to implement the construction of additional water supply wells, additional treatment facilities and additional water delivery infrastructures to ensure that safe and reliable drinking water is supplied to the existing and future customers to meet projected potable water demands through the year 2040. Also, as new housing developments are built additional water distribution piping will be required.

Additionally, it is anticipated that the St. Lucie West Services District (SLWSD) will not need to construct any additional water supply wells, or additional treatment facilities. The SLWSD Consumptive Use Permit was updated December 18, 2019.

4.1 Water Supply Improvement

As mentioned earlier, potable water is currently supplied to the City's WTP's via wells which withdraw groundwater from the surficial aquifer and from the Floridan Aquifer, as summarized in **Table-1** and discussed in detail in Section 2.0. The City is planning on withdrawing additional brackish groundwater supply from the Floridan Aquifer to meet short term and long term (up to 2040) water demands as long as there are no significant environmental impacts.

- The City has been using brackish Floridan Aquifer since 1999 to supply water to two of the three City's Water Treatment Facilities. The City plans on meeting future water demands by expanding the brackish groundwater supply. The City does not plan on expanding the traditional source supply (surficial groundwater), but is planning on treating water from the C-23 Canal in the future.
- The City is continuing to implement a comprehensive reuse system to maximize the use of reclaimed water and therefore offset some of the drinking water demand through irrigation.

4.1.1 Alternative Source Water Supply (Floridan)

There are plans for additional alternative water supply improvements planned in the immediate future. See Table 10 for a list of the capital improvement projects, including Floridian Well F-19, which is currently in construction.

4.1.2 Traditional Source (Surficial)

There are additional surficial water supply improvements planned in the immediate future. Plans are in place for a surface water treatment plant at McCarty Ranch using water from the C-23 Canal, with Areas 1-4 already completed. Areas 5-7 are anticipated to be completed by 2030. These surficial water supply improvements are being constructed in anticipation of the Rangeline RO Plant capital improvement project.

4.2 Water Treatment Facilities

Plans for water facilities capital improvements, in particular the Rangeline RO Plant, are not anticipated until later in 2030.

4.3 Water Repump Facilities

Additional onsite storage and high service pump system upgrades may be required as new housing developments are constructed.

4.4 Distribution System Improvement

Numerous projects for expansion and maintenance of the existing potable water distribution system are included in the City's current CIP program, covering efforts in almost all of the major service areas. A majority of the new construction and upsizing of existing lines is planned for the fast-growing western service area and are included in **Table-10. Table-10** reflects PSLUSD projects and their associated projects costs. Developer driven projects are implemented as the need arises and the cost is borne by the developer. The actual timing of these proposed improvements is based on the current and future housing market.

As noted in the SFWMD UEC Plan 2021, Port St. Lucie is experiencing extensive growth in the western portion of the City, which is putting increased demand on the existing system. It is projected that by the year 2030, Port St. Lucie Utility Systems Department will require increased supply to meet the growing population.

The Rangeline RO Water Treatment Facility is currently in the planning stages in order to meet these future demands with an additional 10MGD. The expected completion date will be 2030.

Regarding F.A.C. 163.3177(6)(c)(3*),* for those future developments which are not currently at buildout, capacity is calculated based on the projected land use according to the developers master plan. This information is added to the PSLUSD water and wastewater master plans to model for future conditions. New developments are required, per Sec. 63.11 of the municipal code, to extend the water, wastewater, and reuse systems to their development. In certain cases where the PSLUSD deems it necessary to upsize the transmission main(s) to meet future requirements, a cost sharing agreement is entered into by both parties.

For those existing developments within the service area which are not currently connected, extension of the system is currently in progress for certain areas. Areas within the PSLUSD service area, but outside of the City of Port St. Lucie require interlocal agreements for the extension of the system. These agreements spread the cost between the homeowners over the course of a set number of years. Currently the PSLUSD is averaging 400 septic to sewer conversions annually. Grant money from the Indian River Lagoon grant fund has been used to facilitate conversions in certain hot spots. No interest ten-year loans are offered to all residents for conversion at any time.

The treatment facility to which these developments flow is determined by the development's geographical location. Currently, construction is underway for an interconnect force main, which will allow flow to be diverted from the Westport WWTF to the Glades WWTF, which has more capacity and room for expansion. The increased demand on the system is being modeled as part of the master plan, which will also better project the need for increased capacity at the Glasdes WWTF. At this time, it is projected that that the Glades WWTF will require expansion by an additional 12MGD by 2034. The design of this expansion is planned for 2032.

The PSLUSD has been working in conjunction with the City of Port St. Lucie Public Works Department to develop a BMAP wastewater treatment plan which meets the FDEP Clean Waterways Act requirements. The draft was submitted in February 2024 and the final plan is to be submitted to FDEP by August 1, 2024, and the FDEP will be adopting these remediation plans by July 1, 2025.

Table-10. List of Capital Improvement Projects 2023 to 2035

COMPLETION DATE	PROJECT	DESCRIPTION	COST	FUNDING SOURCE	FUNDED Y/N	PRIORITY
2024	Becker Road Watermain Improvements	Misc. watermain distribution piping.	$1,200,000	Municipal & Grants	Y	
2024	Hegener	Hegener 24" watermain extension crossing I95 east.	$1,500,000	Developer	Y	
2024	McCarty Ranch Water Quality Impoundment	Water quality restoration Area 5 (77 acre) & Area 6 (40 acre) water storage.	$2,500,000	Municipal & Grants	Y	
2024	Sansone Blvd	12" watermain improvements.	$1,333,800	Developer & Grant	Y	
2024	Tom Mackie Blvd Extension	12" watermain improvements.	$1,500,000	Developer	Y	
2025	LTC/Wylder	Misc. watermain distribution piping.	$5,500,000	Developer	Y	
2025	LTC/Wylder Golf Course Reclaim	Misc. reclaim water piping.	$2,000,000	Developer	Y	
2025	Marshall Parkway	Marshall Parkway 16" watermain extension to I95 east of Village Parkway.	$1,500,000	Developer	Y	
2025	McCarty Ranch Water Quality Impoundment	Water quality restoration Area 7A (234 acre) water storage.	$5,200,000	Municipal & Grants	Y	
2025	Midway LTC Ranch Commercial Tract B	12" watermain improvements.	$1,200,000	Developer	Y	
2025	Midway LTC/Wylder	24" and 16" watermain improvements west of I95 to LTC/Wylder property.	$2,000,000	Developer	Y	
2025	Verano	Misc. watermain distribution piping.	$4,500,000	Developer	Y	
2026	Rangeline RO Plant Design Phase	RO Water Plant Design	$8,900,000	Municipal & Grants	Y	
2026	Rangeline Road RO Well Field	Floridian Wells - (5) @ $4.9m/each	$25,600,000	Municipal & Grants	Y	
2028	Community Blvd	Community Blvd 24" watermain extension to Becker south of Marshall Parkway.	$3,124,800	Developer	Y	
2029	Rangeline Road Raw Watermain	Misc. Raw Water Main	$5,600,000	Municipal & Grants	Y	

2030	Glades Cutoff Parallel Watermain	24" parallel watermain.	$2,000,000	Municipal & Grants	N	3
2030	Rangeline RO Plant Construction	Construction of new 10 MGD RO plant.	$81,000,000	Municipal & Grants	Y	
2031	Glades WWTP On-site High Service Reclaim Pump/Storage	Additional on-site high service pump and storage capacity for reclaim.	$23,000,000	Municipal & Grants	N	2
2031	JEA Rear Watermain Phase 1	Phase 1 of 24" watermain extension from JEA WTP.	$3,103,560	Municipal & Grants	N	6
2031	JEA Rear Watermain Phase 2	Phase 2 of 24" watermain extension from JEA WTP.	$3,386,240	Municipal & Grants	N	5
2032	Belcrest St. Watermain	12" watermain improvement for connection from the Midport Repump to Walton Road.	$1,019,250	Municipal & Grants	N	4
2032	Glades WWTP Expansion Design	Design of Galdes WWTF 12 MGD Expansion	$42,000,000	Municipal & Grants	N	1
2032	McCarty Ranch Water Quality Impoundment	Water quality restoration Area 7B (294 acre) water storage.	$6,477,000	Municipal & Grants	N	8
2032	McCarty fka Westport Aquifer Storage & Recovery Well	ASR Well	$3,100,000	Municipal & Grants	N	9
2032	Prineville-Sandia South Watermain	30" and 24" watermain extension from Prineville WTP to Crosstown Pkwy corridor main.	$2,553,000	Municipal & Grants	N	7

4.5 Reuse Distribution System Improvements

Reuse System Capital Improvements are initiated based on Systems demand generated by Development. The City is planning expansion of its public access reuse system to additional customers including provision of reuse water to several new developments in the Western side of the City. Reuse of reclaimed water provides utilities benefits in terms of conserving potable water, reduction of effluent discharge, effective water management, and recharge of potable quality aquifers in accordance with the goals and objectives of the SFWMD RWSP.

4.6 Conservation

The City plans on continuing its effort to conserve water as explained in Section 2.0 and by implementing other plan elements that the District requires the City to perform. As recommended by the SFWMD, the City plans

to adopt a water conservation policy based on Conserve Florida Goal Based Guidelines to establish an effective, long term water conservation plan through the employment of specific measurable objectives.

Per City of Port St. Lucie municipal code Sec. 65.07, Water Conservation for Landscape Irrigation, the City has adopted the rules of the SFWMD, Chapter 40E-24.201(1)-(6), F.A.C. This restricts irrigation days and times, as well as prohibiting wasteful water usage.

As noted in Section 4.1, to reduce the use of potable water for irrigation purposes, reuse ponds have been constructed throughout the service area. The Glades WWTF has begun bringing customers online, with further expansion in planning as expansion continues to the north and west. New customers are expected to come online in 2025 and beyond, including the new Wylder golf course.

The USD is upgrading its wastewater treatment process at the Westport Wastewater Treatment Facility (WWTF) to advanced wastewater treatment (AWT). AWT will reduce the total N and total P produced during the treatment process. The Westport WWTF produces reuse for recreational and residential customers in the southeastern portion of the City. AWT will ensure the production of reuse goes uninterrupted, thus reducing the need for potable water use in irrigation. The expected completion date is 2026.

4.7 Comprehensive Plan Goals, Objectives, and Policies

Meeting the future needs of the USD will require both upgrades to and the expansion of the existing system. The USD intends to continue its partnership with developers using a cost sharing program on transmission mains as the City continues to grow and the USD provides further services outside of the City limit. This cost sharing method has proven effective, allowing for the upsizing of mains at a reduced cost to the USD, while providing the service needed to new communities.

This expansion also includes the reuse system to encourage reduced potable water use in irrigation. It is the goal of the USD to provide reuse to new and old developments and it will continue to work with developers on the expansion of the system.

Per City of Port St. Lucie municipal code Sec. 65.07, Water Conservation for Landscape Irrigation, the City has adopted the rules of the SFWMD, Chapter 40E-24.201(1)-(6), F.A.C. This restricts irrigation days and times, as well as prohibiting wasteful water usage.

It is also the intention of the USD to obtain further grant funding for such projects. The USD has applied for and received more grant funding in the past two years than in the entire history of the department. This funding is invaluable to provide service for a rapidly expanding population. Grant funding has also allowed us to pursue alternative water supply projects, such as the McCarty Ranch Water Farming project. Grant funding will also be sought to aid in production of the new water treatment facility. Other options being researched as the USD approaches the design phase of the new water plant are WIFIA, SRF and bonds.

A rate study has been performed to determine where the USD can come in line with current rates and fees. These nominal rate increases will be used to meet the operational, maintenance and upgrade needs of the USD.

4.8 St. Lucie West Services District

The St. Lucie West Services District provides potable water for its seven square mile service area. The City of Port St. Lucie does not provide potable water service to St. Lucie West area. However, St. Lucie West does fall within the City's municipal boundaries. With regards to their 10-Year WSP, it is anticipated that the St. Lucie West Services District will not need to construct any additional water supply wells, or additional treatment

facilities. The SLWSD Consumptive Use Permit to withdraw additional water from the Alternative Water Source, the Floridan Aquifer, was updated December 18, 2019.

4.9 The Reserve

The Reserve, a large development surrounded by City limits, is also outside of the Port St. Lucie Utility Systems Department's (PSLUSD) service area. However, a portion of the Reserve (336.42 acres – the Go Team Industrial Park) does fall within the City's municipal boundaries, with the rest of the Reserve's acreage falling within St. Lucie County. The Reserve development owns and operates its own water and wastewater treatment facilities. The City does not supply potable water to the Reserve. The Reserve is served with potable water by the Reserve Utility Corporation (RUC) which is operated by the Reserve Community Development District. Additionally, the Reserve development is partially served by the St. Lucie West Services District.

APPENDIX A

CONSUMPTIVE USE PERMIT

PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WATER USE
LETTER MODIFICATION

APPLICATION NUMBER: 200520-7 **PERMIT NUMBER:** 56-00142-W

DATE ISSUED: June 3, 2020 **EXPIRATION DATE:** July 10, 2028

PERMITTEE: PORT ST LUCIE UTILITY SYSTEM DEPARTMENT
900 SOUTHEAST OGDEN LANE
PORT ST LUCIE, FL 34983

PROJECT NAME: PUBLIC SUPPLY W U P PORT ST LUCIE UTILITY SYSTEM

PROJECT LOCATION: ST LUCIE COUNTY, S1, 2,10-15/T36S/R39E
S30-32/T36S/R41E
S5-8,16-22,25-36/T36S/R40E

District staff has reviewed the information submitted in support of the referenced application for permit modification(s) and determined that the proposed activities are in compliance with the previous permit and the appropriate provisions of Rule 40E-2.331 (4)(a), Florida Administrative Code. The permit modification(s) include the following:

Updating the location and details of proposed Floridan aquifer (FA) Well F-25 to reflect recent adjustments. A comparison of the originally proposed well's location and details with those of the recent adjustments indicated that there are no changes in construction design and that the estimated change in FA's drawdown is insignificant (Exhibit 5). The updated well location and details are respectively provided on Exhibits 5 and 6. No other changes are being requested at this time.

Please understand that your permit remains subject to the 29 Limiting Conditions and all other terms of the permit authorization as previously issued.

Alberto J. Naya, P.G.
Section Leader
Water Use Bureau

LIMITING CONDITIONS

1. This permit shall expire on July 10, 2028.

2. Application for a permit modification may be made at any time.

3. Water use classification:

   Public Water Supply

4. Source classification is:

   Groundwater from:
   Floridan Aquifer System
   Surficial Aquifer System

5. Annual allocation shall not exceed 18,753.70 million gallons (MG). (51.38 MGD)

   Maximum monthly allocation shall not exceed 1,906.60 million gallons (MG).

   The following limitations to annual withdrawals from specific sources are stipulated:
   Floridan Aquifer System-: 16,929 MG.
   Surficial Aquifer System-: 1,825 MG.
   The following limitations to maximum monthly withdrawals from specific sources are stipulated:
   Floridan Aquifer System-: 1,726.60 MG.
   Surficial Aquifer System-: 186.00 MG.

6. Pursuant to Rule 40E-1.6105, F.A.C., Notification of Transfer of Interest in Real Property, within 30 days of any transfer of interest or control of the real property at which any permitted facility, system, consumptive use, or activity is located, the permittee must notify the District, in writing, of the transfer giving the name and address of the new owner or person in control and providing a copy of the instrument effectuating the transfer, as set forth in Rule 40E-1.6107, F.A.C.

   Pursuant to Rule 40E-1.6107 (4), until transfer is approved by the District, the permittee shall be liable for compliance with the permit. The permittee transferring the permit shall remain liable for all actions that are required as well as all violations of the permit which occurred prior to the transfer of the permit.

   Failure to comply with this or any other condition of this permit constitutes a violation and pursuant to Rule 40E-1.609, Suspension, Revocation and Modification of Permits, the District may suspend or revoke the permit.

This Permit is issued to:

PORT ST LUCIE UTILITY SYSTEM DEPARTMENT
900 SOUTHEAST OGDEN LANE
PORT ST LUCIE, FL - 34983

7. Withdrawal facilities:

Groundwater - Proposed:

1 - 17" X 1350' X 1840 GPM Well Cased To 1200 Feet
1 - 17" X 1350' X 1840 GPM Well Cased To 1350 Feet
4 - 20" X 100' X 350 GPM Wells Cased To 60 Feet
15 - 17" X 1350' X 1840 GPM Wells Cased To 750 Feet

Groundwater - Existing:

1 - 16" X 111' X 180 GPM Well Cased To 71 Feet
1 - 12" X 99' X 350 GPM Well Cased To 40 Feet
1 - 16" X 110' X 300 GPM Well Cased To 55 Feet
1 - 17" X 1103' X 1780 GPM Well Cased To 750 Feet
1 - 16" X 110' X 320 GPM Well Cased To 65 Feet
1 - 12" X 103' X 230 GPM Well Cased To 60 Feet
1 - 16" X 99.5' X 300 GPM Well Cased To 59 Feet
1 - 24" X 97' X 520 GPM Well Cased To 64 Feet
1 - 16" X 99.5' X 300 GPM Well Cased To 64.5 Feet
1 - 12" X 107' X 120 GPM Well Cased To 23 Feet
1 - 17" X 1170' X 1780 GPM Well Cased To 750 Feet
1 - 12" X 84' X 220 GPM Well Cased To 51 Feet
1 - 12" X 90' X 365 GPM Well Cased To 67 Feet
1 - 16" X 111' X 265 GPM Well Cased To 69.5 Feet
1 - 20" X 1350' X 1700 GPM Well Cased To 650 Feet
1 - 16" X 95' X 100 GPM Well Cased To 50 Feet
1 - 20" X 1096' X 1700 GPM Well Cased To 650 Feet
1 - 16" X 90' X 300 GPM Well Cased To 55 Feet
1 - 17" X 1250' X 0 GPM Well Cased To 845 Feet
1 - 16" X 1350' X 1700 GPM Well Cased To 650 Feet
1 - 16" X 95' X 275 GPM Well Cased To 60 Feet
1 - 12" X 107' X 500 GPM Well Cased To 23 Feet
1 - 24" X 91' X 515 GPM Well Cased To 63 Feet
6 - 17" X 1350' X 1700 GPM Wells Cased To 650 Feet
7 - 17" X 1350' X 1780 GPM Wells Cased To 750 Feet

1 - 16" X 110' X 320 GPM Well Cased To 70 Feet
1 - 16" X 99.5' X 190 GPM Well Cased To 54.5 Feet
1 - 24" X 85' X 180 GPM Well Cased To 52 Feet
1 - 16" X 105' X 350 GPM Well Cased To 57 Feet
1 - 16" X 111' X 225 GPM Well Cased To 71 Feet
1 - 16" X 95' X 600 GPM Well Cased To 60 Feet
1 - 12" X 111' X 140 GPM Well Cased To 61 Feet
1 - 16" X 111' X 200 GPM Well Cased To 75 Feet
1 - 16" X 100' X 300 GPM Well Cased To 60 Feet
1 - 16" X 90' X 400 GPM Well Cased To 45 Feet
2 - 16" X 111' X 275 GPM Wells Cased To 76 Feet

8. Permittee shall mitigate interference with existing legal uses that was caused in whole or in part by the permittee's withdrawals, consistent with the approved mitigation plan. As necessary to offset the interference, mitigation will include pumpage reduction, replacement of the impacted individual's equipment, relocation of wells, change in withdrawal source, or other means.

   Interference to an existing legal use is defined as an impact that occurs under hydrologic conditions equal to or less severe than a 1 in 10 year drought event that results in the:

   (A) Inability to withdraw water consistent with provisions of the permit, such as when remedial structural or operational actions not materially authorized by existing permits must be taken to address the interference; or

   (B) Change in the quality of water pursuant to primary State Drinking Water Standards to the extent that the water can no longer be used for its authorized purpose, or such change is imminent.

9. Permittee shall mitigate harm to existing off-site land uses caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm caused by withdrawals, as determined through reference to the conditions for permit issuance, includes:

   (A) Significant reduction in water levels on the property to the extent that the designed function of the water body and related surface water management improvements are damaged, not including aesthetic values. The designed function of a water body is identified in the original permit or other governmental authorization issued for the construction of the water body. In cases where a permit was not required, the

designed function shall be determined based on the purpose for the original construction of the water body (e.g. fill for construction, mining, drainage canal, etc.)

(B) Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or

(C) Land collapse or subsidence caused by reduction in water levels associated with consumptive use.

10. Permittee shall mitigate harm to the natural resources caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm, as determined through reference to the conditions for permit issuance includes:

    (A) Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface,

    (B) Reduction in water levels that harm the hydroperiod of wetlands,

    (C) Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,

    (D) Harmful movement of contaminants in violation of state water quality standards, or

    (E) Harm to the natural system including damage to habitat for rare or endangered species.

11. If any condition of the permit is violated, the permit shall be subject to review and possible modification, enforcement action, or revocation.

12. Authorized representatives of the District, with advance notice to the permittee, shall be permitted to enter, inspect, and observe the permitted system to determine compliance with permit conditions.

13. The Permittee is advised that this permit does not relieve any person from the requirement to obtain all necessary federal, state, local and special district authorizations.

14. The permit does not convey any property right to the Permittee, nor any rights and privileges other than those specified in the Permit and Chapter 40E-2, Florida Administrative Code.

15. Permittee shall submit all data as required by the implementation schedule for each of the limiting conditions to: SFWMD at www.sfwmd.gov/ePermitting, or Regulatory Support, 3301 Gun Club Road, West Palm Beach, FL 33406.

16. In the event of a declared water shortage, water withdrawal reductions will be ordered by the District in accordance with the Water Shortage Plan, Chapter 40E-21, F.A.C. The Permittee is advised that during a water shortage, pumpage reports shall be submitted as required by Chapter 40E-21, F.A.C.

17. Prior to the use of any proposed water withdrawal facility authorized under this permit, unless otherwise specified, the Permittee shall equip each facility with a District-approved operating water use accounting system and submit a report of calibration to the District, pursuant to Section 4.1, Basis of Review for Water Use Permit Applications.

    In addition, the Permittee shall submit a report of recalibration for the water use accounting system for each water withdrawal facility (existing and proposed) authorized under this permit every five years from each previous calibration, continuing at five-year increments.

18. Monthly withdrawals for each withdrawal facility shall be submitted to the District quarterly. The water accounting method and means of calibration shall be stated on each report.

19. The Permittee shall notify the District within 30 days of any change in service area boundary. If the Permittee will not serve a new demand within the service area for which the annual allocation was calculated, the annual allocation may then be subject to modification and reduction.

20. Permittee shall determine unaccounted-for distribution system losses. Losses shall be determined for the entire distribution system on a monthly basis. Permittee shall define the manner in which unaccounted-for losses are calculated. Data collection shall begin within six months of Permit issuance. Loss reporting shall be submitted to the District on a yearly basis from the date of Permit issuance.

21. Permittee shall maintain an accurate flow meter at the intake of the water treatment

plant for the purpose of measuring daily inflow of water.

22. In Martin and St. Lucie counties, the maximum installed capacity on a Floridan aquifer well shall be that capacity at which the well is capable of flowing in a free flowing mode relative to existing land elevation at the well site. Pumping equipment shall not be installed on any free flowing Floridan aquifer well as a means to regain or increase capacity. (Prior to the installation of the pump, Permittee shall provide a flow verification determination to the District for review and approval. Staff approval will be granted if the natural flow rate of the well is greater than that of the proposed pump.)

23. Every ten years from the date of permit issuance, the permittee shall submit a water use compliance report for review and approval by District Staff, which addresses the following:

    (A) The results of a water conservation audit that documents the efficiency of water use on the project site using data produced from an onsite evaluation conducted. In the event that the audit indicates additional water conservation is appropriate or the per capita use rate authorized in the permit is exceeded, the permittee shall propose and implement specific actions to reduce the water use to acceptable levels within timeframes proposed by the permittee and approved by the District.

    (B) A comparison of the permitted allocation and the allocation that would apply to the project based on current District allocation rules and updated population and per capita use rates. In the event the permit allocation is greater than the allocation provided for under District rule, the permittee shall apply for a letter modification to reduce the allocation consistent with District rules and the updated population and per capita use rates to the extent they are considered by the District to be indicative of long term trends in the population and per capita use rates over the permit duration. In the event that the permit allocation is less than allowable under District rule, the permittee shall apply for a modification of the permit to increase the allocation if the permittee intends to utilize an additional allocation, or modify its operation to comply with the existing conditions of the permit.

24. The Water Conservation Plan required by Section 2.6.1 of the Basis of Review for Water Use Permit Applications within the South Florida Water Management District, must be implemented in accordance with the approved implementation schedule.

25. If a proposed well location is different from a location specified in the application, the Permittee shall submit to the District an evaluation of the impact of pumpage from the proposed well location on adjacent existing legal uses, pollution sources, environmental features, the saline water interface, and water bodies one month prior to

all new well construction. The Permittee is advised that the proposal must be in compliance with all permitting criteria and performance standards in effect at the time of submittal, and that a formal modification of the permit shall be required if the withdrawals from the well location will result in an environmental or resource impact significantly greater than that anticipated in the permit review process.

26. If at any time there is an indication that the well casing, valves, or controls leak or have become inoperative, repairs or replacement shall be made to restore the system to an operating condition. Failure to make such repairs shall be cause for filling and abandoning the well, in accordance with procedures outlined in Chapter 40E-3, Florida Administrative Code.

27. The Permittee shall submit to the District an updated Well Description Table (Table A) within one month of completion of the proposed wells identifying the actual total and cased depths, pump manufacturer and model numbers, pump types, intake depths and type of meters.

28. The Permittee shall continue to submit monitoring data in accordance with the approved saline water intrusion monitoring program for this project.
The chloride ion concentrations shall be collected and submitted to the District quarterly for each of the Floridan aquifer and surficial aquifer system production wells. Should the chloride ion concentrations in the surficial aquifer system exceed 200 milligrams per liter, the permittee shall notify the District to potentially modify the current wellfield operating plan. If the saline water interface becomes unstable, as demonstrated by increases in measured chloride ion concentration levels within the influence of the proposed use, the Permittee shall determine the cause of the saline movement and the extent of future movement through the duration of the water use permit and shall demonstrate that the proposed withdrawal will not cause harmful saline intrusion through the duration of the water use permit.

    Water level elevation data shall be collected monthly and submitted quarterly to the District for each of the surficial aquifer system production wells.

29. The Permittee shall continue to implement the wellfield operating plan. The District shall be notified prior to any changes or updates to the wellfield operating plan. The wellfield operating plan shall include details on the well status and the operational rotation schedules.

NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF AN ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

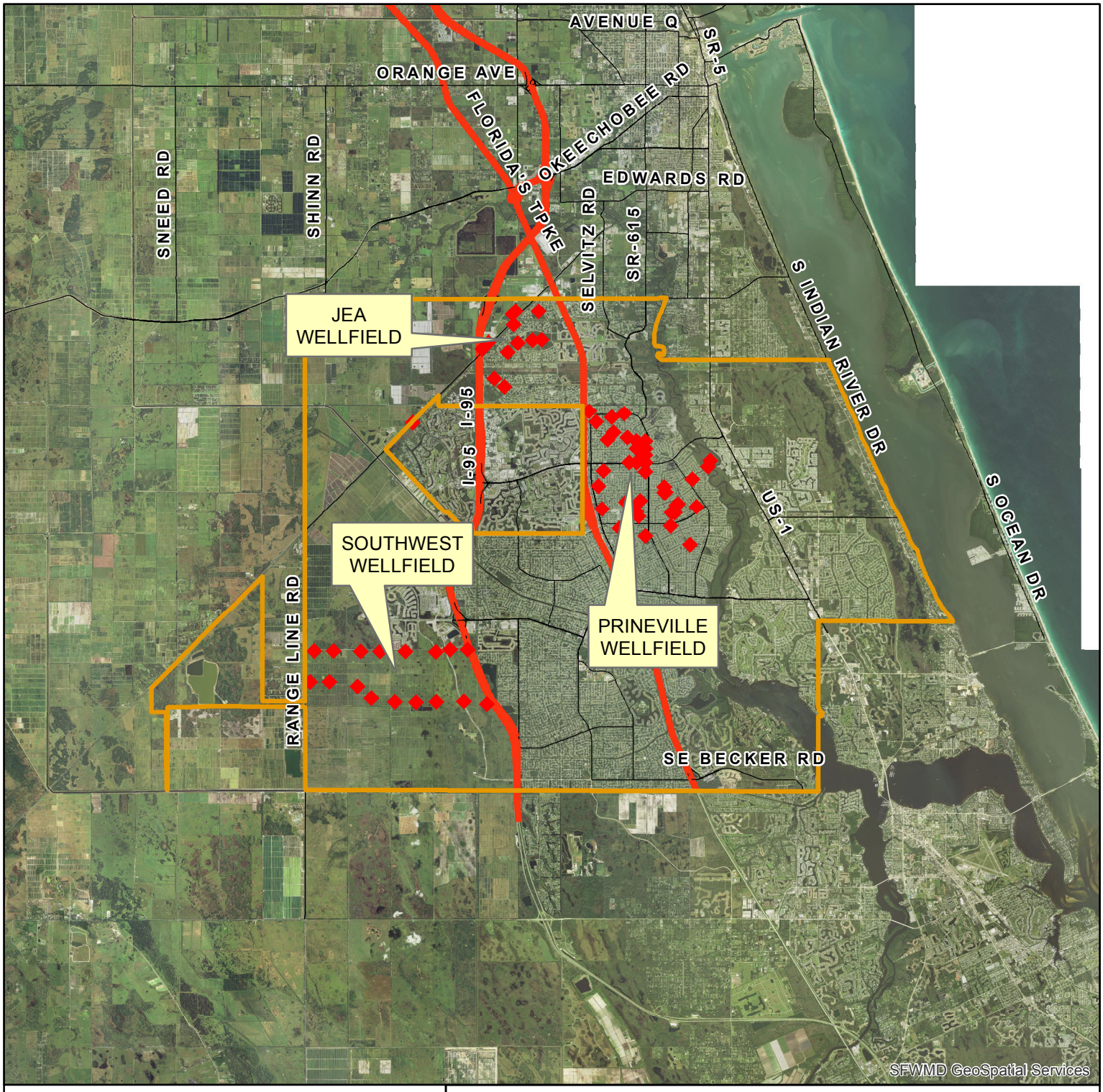
1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

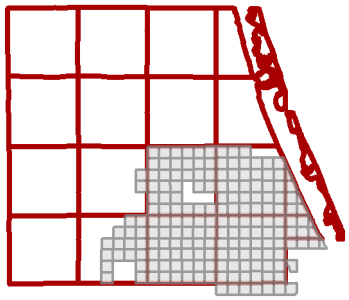
MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.





ST. LUCIE COUNTY, FLORIDA

Application

WELL

N

Map Date: 2019-12-03

Application No: 200520-7

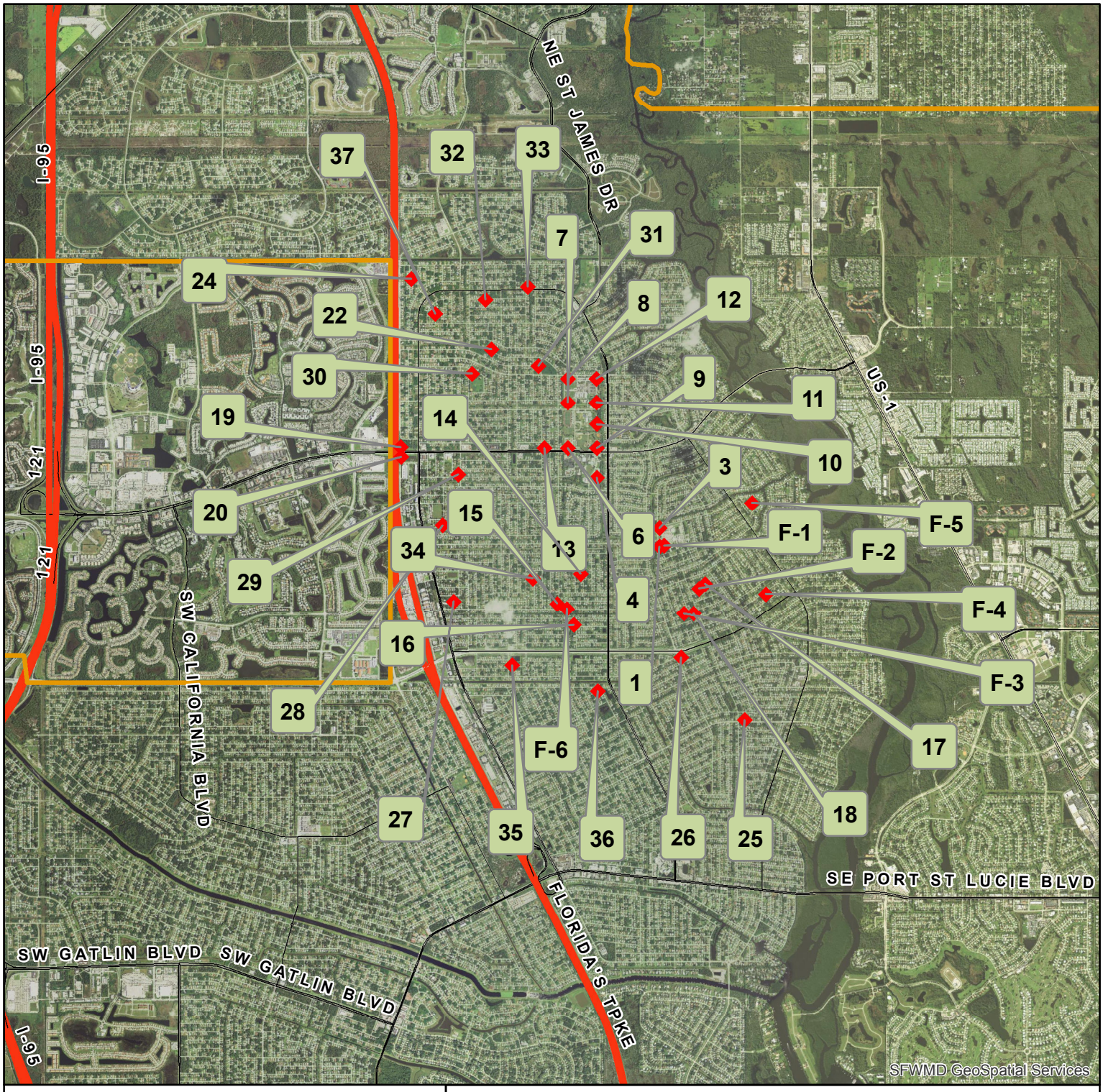
Permit No: 56-00142-W

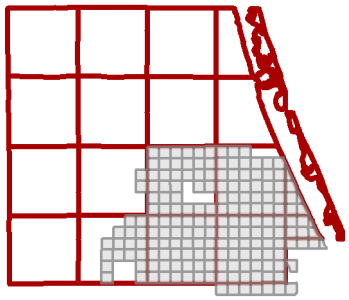
Sec 1, 2, 10-15 / Twp 36 / Rge 39
Sec 5-8, 16-22, 25-36 / Twp 36 / Rge 40
Sec 30-32, / Twp 36 / Rge 41

Project Name: PUBLIC SUPPLY W U P (PORT ST LUCIE UTILITY SYSTEM)

0 3.25 6.5 Miles

Exhibit No: 1





ST. LUCIE COUNTY, FLORIDA

Application

PRINEVILLE WELLFIELD

N

Map Date: 2019-12-03

Application No: 200520-7

Permit No: 56-00142-W

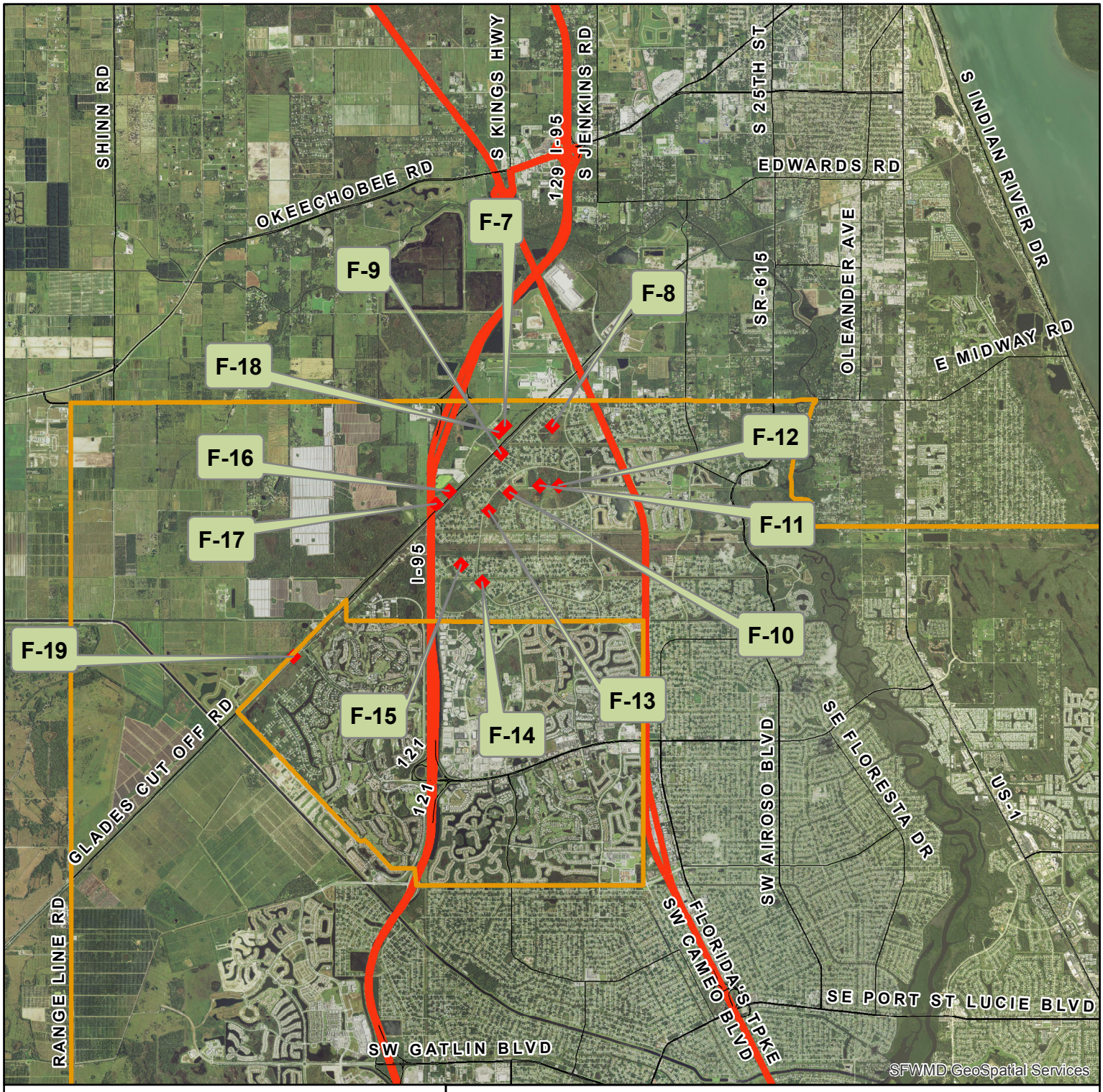
Sec 1, 2, 10-15 / Twp 36 / Rge 39
Sec 5-8, 16-22, 25-36 / Twp 36 / Rge 40
Sec 30-32, / Twp 36 / Rge 41

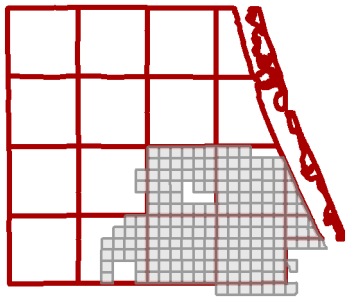
Project Name: PUBLIC SUPPLY W U P (PORT ST LUCIE UTILITY SYSTEM)

0 5,500 11,000

Feet

Exhibit No: 2





ST. LUCIE COUNTY, FLORIDA

Application

JEA WELLFIELD

N

Map Date: 2019-12-03

Permit No: 56-00142-W

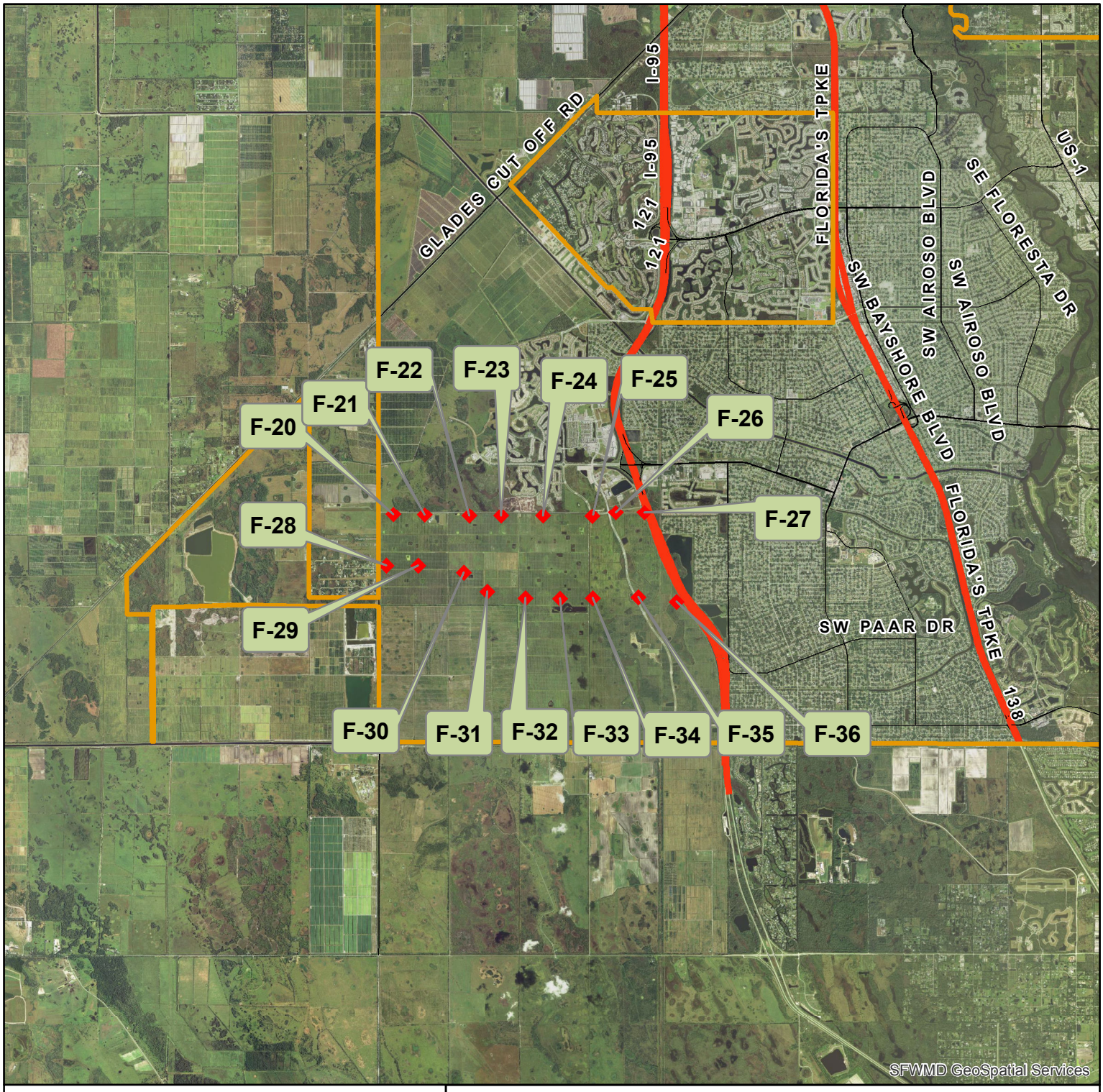
Application No: 200520-7

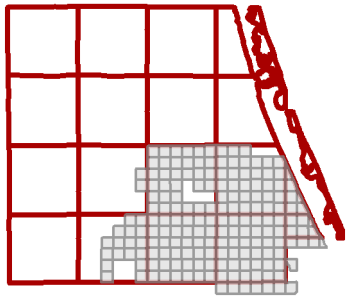
Sec 1, 2, 10-15 / Twp 36 / Rge 39
Sec 5-8, 16-22, 25-36 / Twp 36 / Rge 40
Sec 30-32, / Twp 36 / Rge 41

Project Name: PUBLIC SUPPLY W U P (PORT ST LUCIE UTILITY SYSTEM)

0 1.5 3 Miles

Exhibit No: 3





ST. LUCIE COUNTY, FLORIDA

Application

SOUTHWEST WELLFIELD

N

Map Date: 2019-12-03

Application No: 200520-7

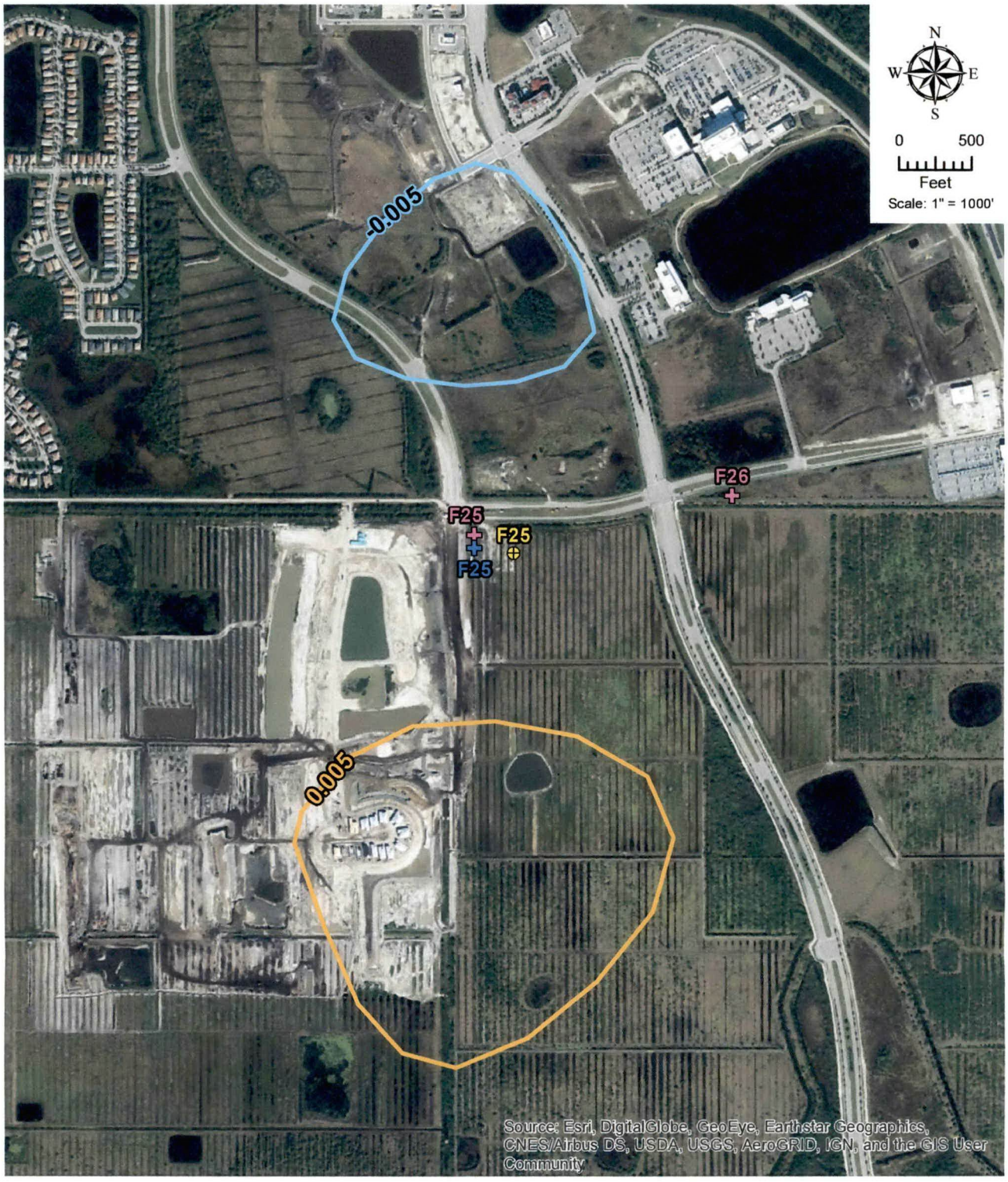
Permit No: 56-00142-W

Sec 1, 2, 10-15 / Twp 36 / Rge 39
Sec 5-8, 16-22, 25-36 / Twp 36 / Rge 40
Sec 30-32, / Twp 36 / Rge 41

Project Name: PUBLIC SUPPLY W U P (PORT ST LUCIE UTILITY SYSTEM)

0 2 4 Miles

Exhibit No: 4



200520-7 №

Original Well Location
Current Well Locations
New Well Location

CHANGE IN DRAWDOWN
SOUTHWEST WELLFIELD
WUP LETTER MODIFICATION
CITY OF PORT ST. LUCIE, FL

FIGURE 1

RECEIVED
MAY 20 2020
SFWMD REGULATION

20-10-0405	Projection: State Plane Florida East	
Prepared: 05-11-2020	Horizontal Datum: NAD83	Vertical Datum: N/A
Prepared by: VCD	Modified by:	Modified:

Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Phone: 407-855-3860 Fax: 407-859-8121
8008 South Orange Avenue
Orlando, Florida 32809

W:\Projects\2020\20-10-0405 PSL Rangeline Wellfield WUP Mod\ArcGIS\Layouts\DDMap-S3-2016-2020-F25.mxd

TABLE - A
Description Of Wells.

Application Number: 200520-7

Well ID	27684	27686	27687	27688	27689	27690
Name	1	3	4	6	7	8
Map Designator	1	3	4	6	7	8
FLUWID Number						
Well Field	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield
Existing/Proposed	E	E	E	E	E	E
Well Diameter(Inches)	16	16	16	16	16	16
Total Depth(feet)	95	90	111	111	111	111
Cased Depth(feet)	60	45	76	76	69.5	75
Facility Elev. (ft. NGVD)						
Screened Interval						
From	60	45	79	76	69.5	75
To	90	85	109	106	99	105
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)	0	0	0	0	-48	-48
Pump Capacity(GPM)	600	400	275	275	265	200
Year Drilled	1969	1970	1974	1975	1975	1975
Planar Location						
Source	Migrate	Migrate	Migrate	Migrate	Migrate	Migrate
Feet East	869302	869298	866943	865846	865846	865841
Feet North	1081629	1082336	1084242	1085348	1087064	1087972
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Unspecified
Use Status	Primary	Primary	Primary	Primary	Primary	Standby
Water Use Type	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor
Aquifer	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	27691	27692	27693	27694	27695	27696
Name	9	10	11	12	13	14
Map Designator	9	10	11	12	13	14
FLUWID Number						
Well Field	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield
Existing/Proposed	E	E	E	E	E	E
Well Diameter(Inches)	16	16	16	16	16	16
Total Depth(feet)	110	110	111	111	99.5	100
Cased Depth(feet)	65	70	71	71	54.5	60
Facility Elev. (ft. NGVD)						
Screened Interval						
From	65	70	71	71	55	60
To	105	105	106	106	94	95
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)	-50	-48	-55	-54	0	0
Pump Capacity(GPM)	320	320	180	225	190	300
Year Drilled	1974	1975	1975	1975	1982	1982
Planar Location						
Source	Migrate	Migrate	Migrate	Migrate	Migrate	Migrate
Feet East	866937	866933	866918	866924	864953	866331
Feet North	1085353	1086261	1087069	1087978	1085342	1080603
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor
Aquifer	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	27697	27698	27699	27700	27701	27702
Name	15	16	17	18	19	20
Map Designator	15	16	17	18	19	20
FLUWID Number						
Well Field	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield
Existing/Proposed	E	E	E	E	E	E
Well Diameter(Inches)	16	16	16	16	16	16
Total Depth(feet)	99.5	90	110	95	95	105
Cased Depth(feet)	64.5	55	55	50	60	57
Facility Elev. (ft. NGVD)						
Screened Interval						
From	65	55	55	50	60	57
To	94	85	110	90	90	100
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)	0	0	0	0	0	0
Pump Capacity(GPM)	300	300	300	100	275	350
Year Drilled	1982	1982	1982	1982	1987	1987
Planar Location						
Source	Migrate	Migrate	Migrate	Migrate	Migrate	Migrate
Feet East	865434	866070	871024	870578	859545	859550
Feet North	1079488	1078683	1080224	1079111	1085385	1085020
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor
Aquifer	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	27704	27705	27708	27709	27714	27706
Name	22	24	25	26	27	28
Map Designator	22	24	25	26	27	28
FLUWID Number						
Well Field	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield
Existing/Proposed	E	E	E	E	P	E
Well Diameter(Inches)	16	12	12	24	20	12
Total Depth(feet)	99.5	107	111	85	100	107
Cased Depth(feet)	59	23	61	52	60	23
Facility Elev. (ft. NGVD)						
Screened Interval						
From	59	23	61	52	60	23
To	94	107	98	82	100	107
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Unspecified	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)	0	-17	44	34	-45	-17
Pump Capacity(GPM)	300	120	140	180	350	500
Year Drilled	1988	1994	1996	1996		1994
Planar Location						
Source	Migrate	Migrate	Migrate	Migrate	Migrate	Migrate
Feet East	862966	859946	872509	870109	861537	861122
Feet North	1089074	1091738	1075092	1077448	1079563	1082429
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Unspecified	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Standby	Primary
Water Use Type	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply	Public Water Supply Monitor
Aquifer	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	27707	27715	27716	27718	27710	27711
Name	29	30	31	32	33	34
Map Designator	29	30	31	32	33	34
FLUWID Number						
Well Field	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield
Existing/Proposed	E	P	P	E	E	E
Well Diameter(Inches)	12	20	20	12	12	12
Total Depth(feet)	99	100	100	103	84	90
Cased Depth(feet)	40	60	60	60	51	67
Facility Elev. (ft. NGVD)						
Screened Interval						
From	40	60	60	60	51	67
To	99	100	100	103	81	87
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Unspecified	Unspecified	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)	-42	-45	-45	-26	48	48
Pump Capacity(GPM)	350	350	350	230	220	365
Year Drilled	1994			1994	1996	1996
Planar Location						
Source	Migrate	Migrate	Migrate	Migrate	Migrate	Migrate
Feet East	861707	862237	864737	862737	864326	864528
Feet North	1084353	1088163	1088463	1090963	1091451	1080434
Accounting Method	Flow Meter	Unspecified	Unspecified	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Standby	Standby	Primary	Primary	Primary
Water Use Type	Public Water Supply Monitor	Public Water Supply	Public Water Supply	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor
Aquifer	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	27717	27712	27713	27719	27720	27721
Name	35	36	37	F-1	F-2	F-3
Map Designator	35	36	37	F-1	F-2	F-3
FLUWID Number						
Well Field	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield
Existing/Proposed	P	E	E	E	E	E
Well Diameter(Inches)	20	24	24	16	17	17
Total Depth(feet)	100	91	97	1350	1350	1350
Cased Depth(feet)	60	63	64	650	650	650
Facility Elev. (ft. NGVD)						
Screened Interval						
From	60	63	64	0	0	0
To	100	88	94	0	0	0
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Unspecified	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)	-45	44	44	50	55	0
Pump Capacity(GPM)	350	515	520	1700	1700	1700
Year Drilled		1996	1996	1997	1999	1999
Planar Location						
Source	Migrate	Migrate	Migrate	APPLICANT	APPLICANT	APPLICANT
Feet East	863737	866969	860836	869462	870795	870218
Feet North	1077163	1076181	1090425	1081675	1080060	1079111
Accounting Method	Unspecified	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Standby	Primary	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor
Aquifer	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	27722	27723	111081	112009	112010	112011
Name	F-4	F-5	F-6	F-7	F-8	F-9
Map Designator	F-4	F-5	F-6	F-7	F-8	F-9
FLUWID Number						
Well Field	Prineville Wellfield	Prineville Wellfield	Prineville Wellfield	JEA Wellfield	JEA Wellfield	JEA Wellfield
Existing/Proposed	E	E	E	E	E	E
Well Diameter(Inches)	17	17	17	20	17	20
Total Depth(feet)	1350	1350	1350	1350	1350	1096
Cased Depth(feet)	650	650	650	650	650	650
Facility Elev. (ft. NGVD)						
Screened Interval						
From	0	0				
To	0	0				
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)	0		35	35	35	35
Pump Capacity(GPM)	1700	1700	1700	1700	1700	1700
Year Drilled	2001	2002	2002	2001	2001	2002
Planar Location						
Source	APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT
Feet East	873299	872779	865815	850790	853662	850591
Feet North	1079841	1083280	1079295	1104205	1104194	1102549
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor	Public Water Supply Monitor
Aquifer	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	163474	163475	163476	163477	163478	163480
Name	F-10	F-11	F-12	F-13	F-14	F-15
Map Designator	F-10	F-11	F-12	F-13	F-14	F-15
FLUWID Number						
Well Field	JEA Wellfield	JEA Wellfield	JEA Wellfield	JEA Wellfield	JEA Wellfield	JEA Wellfield
Existing/Proposed	E	E	E	E	E	E
Well Diameter(Inches)	17	17	17	17	17	17
Total Depth(feet)	1103	1350	1170	1350	1350	1350
Cased Depth(feet)	750	750	750	750	750	750
Facility Elev. (ft. NGVD)						
Screened Interval						
From						
To						
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)		35	35	35	35	35
Pump Capacity(GPM)	1780	1780	1780	1780	1780	1780
Year Drilled	2004	2006	2007	2006	2007	2007
Planar Location						
Source		APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT
Feet East	851100	852907	854060	849821	849449	848160
Feet North	1100222	1100617	1100622	1099105	1094793	1095854
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply Monitor	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply
Aquifer	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	163483	163488	163489	163490	163491	220042
Name	F-16	F-17	F-18	F-19	F-20	F-21
Map Designator	F-16	F-17	F-18	F-19	F-20	F-21
FLUWID Number						
Well Field	JEA Wellfield	JEA Wellfield	JEA Wellfield	JEA Wellfield	Southwest Wellfield	Southwest Wellfield
Existing/Proposed	E	E	E	P	P	E
Well Diameter(Inches)	17	17	17	17	17	17
Total Depth(feet)	1350	1350	1350	1350	1350	1250
Cased Depth(feet)	750	750	750	750	1200	845
Facility Elev. (ft. NGVD)						
Screened Interval						
From						
To						
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)	35					35
Pump Capacity(GPM)	1780	1780	1780	1840	1840	0
Year Drilled	2007	2007	2007			2006
Planar Location						
Source	APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT
Feet East	847450	846665	850431	838039	825771	828171
Feet North	1100299	1099507	1103844	1090300	1061904	1061890
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply
Aquifer	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	220044	220045	220046	220047	220048	220050
Name	F-22	F-23	F-24	F-25	F-26	F-27
Map Designator	F-22	F-23	F-24	F-25	F-26	F-27
FLUWID Number						
Well Field	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield
Existing/Proposed	P	P	P	P	P	P
Well Diameter(Inches)	17	17	17	17	17	17
Total Depth(feet)	1350	1350	1350	1350	1350	1350
Cased Depth(feet)	1350	750	750	750	750	750
Facility Elev. (ft. NGVD)						
Screened Interval From						
To						
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev. Feet (NGVD)						
Feet (BLS)						
Pump Capacity(GPM)	1840	1840	1840	1840	1840	1840
Year Drilled						
Planar Location						
Source	APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT
Feet East	831554	833976	837137	840879	842667	844829
Feet North	1061822	1061816	1061824	1061698	1062058	1062048
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply
Aquifer	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	220049	220051	220052	220053	220054	220055
Name	F-28	F-29	F-30	F-31	F-32	F-33
Map Designator	F-28	F-29	F-30	F-31	F-32	F-33
FLUWID Number						
Well Field	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield
Existing/Proposed	P	P	P	P	P	P
Well Diameter(Inches)	17	17	17	17	17	17
Total Depth(feet)	1350	1350	1350	1350	1350	1350
Cased Depth(feet)	750	750	750	750	750	750
Facility Elev. (ft. NGVD)						
Screened Interval						
From						
To						
Pumped Or Flowing	P	P	P	P	P	P
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine	Turbine
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)						
Pump Capacity(GPM)	1840	1840	1840	1840	1840	1840
Year Drilled						
Planar Location						
Source	APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT	APPLICANT
Feet East	825248	827667	831142	832914	835810	838434
Feet North	1058049	1058055	1057510	1056079	1055602	1055568
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply
Aquifer	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	220056	220057	220058	139231	139232	139229
Name	F-34	F-35	F-36	SW-2S	SW-2D	SW-3S
Map Designator	F-34	F-35	F-36			
FLUWID Number						
Well Field	Southwest Wellfield	Southwest Wellfield	Southwest Wellfield			
Existing/Proposed	P	P	P	E	E	E
Well Diameter(Inches)	17	17	17			
Total Depth(feet)	1350	1350	1350	25	126	43
Cased Depth(feet)	750	750	750	20	105	38
Facility Elev. (ft. NGVD)						
Screened Interval						
From						
To						
Pumped Or Flowing	P	P	P			
Pump Type	Turbine	Turbine	Turbine	None	None	None
Pump Int. Elev.						
Feet (NGVD)						
Feet (BLS)						
Pump Capacity(GPM)	1840	1840	1840	0	0	0
Year Drilled						
Planar Location						
Source	APPLICANT	APPLICANT	APPLICANT			
Feet East	840938	844371	847273	871317.399	871328.158	868629.881
Feet North	1055592	1055677	1055323	1088927.105	1088939.28	1096795.853
Accounting Method	Flow Meter	Flow Meter	Flow Meter	None	None	None
Use Status	Primary	Primary	Primary	Monitor	Monitor	Monitor
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply	Monitor	Monitor	Monitor
Aquifer	Floridan Aquifer System	Floridan Aquifer System	Floridan Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System

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Description Of Wells.

Application Number: 200520-7

Well ID	139230	139225	139226	139228	152573	139234
Name	SW-3D	SW-4S	SW-4M	SW-4D	PW 4	Well 21
Map Designator						
FLUWID Number						
Well Field						
Existing/Proposed	E	E	E	E	A	E
Well Diameter(Inches)					8	
Total Depth(feet)	118	16	28	107	120	93
Cased Depth(feet)	108	13	25	104	90	63
Facility Elev. (ft. NGVD)						
Screened Interval From						
To						
Pumped Or Flowing					P	
Pump Type	None	None	None	None	None	None
Pump Int. Elev. Feet (NGVD)						
Feet (BLS)						
Pump Capacity(GPM)	0	0	0	0	200	0
Year Drilled						
Planar Location Source						
Feet East	868635.132	873030.478	873035.89	873035.858	867316	866310.327
Feet North	1096826.176	1087348.743	1087348.772	1087354.831	1081767	1087113.39
Accounting Method	None	None	None	None	None	None
Use Status	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Water Use Type	Monitor	Monitor	Monitor	Monitor Water Shortage Monitoring Facility	Monitor	Monitor
Aquifer	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System	Surficial Aquifer System

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Requirement by Permit Condition Report

App No: 200520-7
Permit No: 56-00142-W
Project Name: PUBLIC SUPPLY W U P PORT ST LUCIE UTILITY SYSTEM

Permit Condition No: 17 **Permit Condition Code:** WUSTD021-8

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - 1	Calibration report for WELL 1	Every Five Years	Every Five Years	31-MAY-2023
WELL - 3	Calibration report for WELL 3	Every Five Years	Every Five Years	30-JUN-2023
WELL - 4	Calibration report for WELL 4	Every Five Years	Every Five Years	30-JUN-2023
WELL - 6	Calibration report for WELL 6	Every Five Years	Every Five Years	30-APR-2023
WELL - 7	Calibration report for WELL 7	Every Five Years	Every Five Years	30-APR-2023
WELL - 8	Calibration report for WELL 8	Every Five Years	Every Five Years	31-OCT-2023
WELL - 9	Calibration report for WELL 9	Every Five Years	Every Five Years	30-APR-2023
WELL - 10	Calibration report for WELL 10	Every Five Years	Every Five Years	31-MAR-2023
WELL - 11	Calibration report for WELL 11	Every Five Years	Every Five Years	30-APR-2023
WELL - 12	Calibration report for WELL 12	Every Five Years	Every Five Years	31-MAR-2023
WELL - 13	Calibration report for WELL 13	Every Five Years	Every Five Years	30-APR-2023
WELL - 14	Calibration report for WELL 14	Every Five Years	Every Five Years	30-APR-2023
WELL - 15	Calibration report for WELL 15	Every Five Years	Every Five Years	31-MAR-2023
WELL - 16	Calibration report for WELL 16	Every Five Years	Every Five Years	30-JUN-2023
WELL - 17	Calibration report for WELL 17	Every Five Years	Every Five Years	31-AUG-2023
WELL - 18	Calibration report for WELL 18	Every Five Years	Every Five Years	31-MAR-2023
WELL - 19	Calibration report for WELL 19	Every Five Years	Every Five Years	31-MAR-2023
WELL - 20	Calibration report for WELL 20	Every Five Years	Every Five Years	31-MAR-2023
WELL - 22	Calibration report for WELL 22	Every Five Years	Every Five Years	31-MAR-2023
WELL - 24	Calibration report for WELL 24	Every Five Years	Every Five Years	30-APR-2023
WELL - 25	Calibration report for WELL 25	Every Five Years	Every Five Years	31-OCT-2023
WELL - 26	Calibration report for WELL 26	Every Five Years	Every Five Years	31-MAR-2023
WELL - 27	Calibration report for WELL 27	Every Five Years	Every Five Years	28-FEB-2021
WELL - 28	Calibration report for WELL 28	Every Five Years	Every Five Years	31-MAR-2023
WELL - 29	Calibration report for WELL 29	Every Five Years	Every Five Years	31-MAR-2023
WELL - 30	Calibration report for WELL 30	Every Five Years	Every Five Years	28-FEB-2021
WELL - 31	Calibration report for WELL 31	Every Five Years	Every Five Years	28-FEB-2021
WELL - 32	Calibration report for WELL 32	Every Five Years	Every Five Years	31-MAR-2023
WELL - 33	Calibration report for WELL 33	Every Five Years	Every Five Years	31-AUG-2023
WELL - 34	Calibration report for WELL 34	Every Five Years	Every Five Years	31-AUG-2023
WELL - 35	Calibration report for WELL 35	Every Five Years	Every Five Years	28-FEB-2021
WELL - 36	Calibration report for WELL 36	Every Five Years	Every Five Years	30-APR-2023
WELL - 37	Calibration report for WELL 37	Every Five Years	Every Five Years	31-MAR-2023
WELL - F-1	Calibration report for WELL F-1	Every Five Years	Every Five Years	31-JAN-2021
WELL - F-2	Calibration report for WELL F-2	Every Five Years	Every Five Years	31-JAN-2021
WELL - F-3	Calibration report for WELL F-3	Every Five Years	Every Five Years	31-JAN-2021
WELL - F-4	Calibration report for WELL F-4	Every Five Years	Every Five Years	31-JAN-2021
WELL - F-5	Calibration report for WELL F-5	Every Five Years	Every Five Years	31-JAN-2021
WELL - F-6	Calibration report for WELL F-6	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-7	Calibration report for WELL F-7	Every Five Years	Every Five Years	31-MAR-2021

Exhibit No: 7

Requirement by Permit Condition Report

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - F-8	Calibration report for WELL F-8	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-9	Calibration report for WELL F-9	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-10	Calibration report for WELL F-10	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-11	Calibration report for WELL F-11	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-12	Calibration report for WELL F-12	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-13	Calibration report for WELL F-13	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-14	Calibration report for WELL F-14	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-15	Calibration report for WELL F-15	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-16	Calibration report for WELL F-16	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-17	Calibration report for WELL F-17	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-18	Calibration report for WELL F-18	Every Five Years	Every Five Years	31-MAR-2021
WELL - F-19	Calibration report for WELL F-19	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-20	Calibration report for WELL F-20	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-21	Calibration report for WELL F-21	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-22	Calibration report for WELL F-22	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-23	Calibration report for WELL F-23	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-24	Calibration report for WELL F-24	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-25	Calibration report for WELL F-25	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-26	Calibration report for WELL F-26	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-27	Calibration report for WELL F-27	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-28	Calibration report for WELL F-28	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-29	Calibration report for WELL F-29	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-30	Calibration report for WELL F-30	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-31	Calibration report for WELL F-31	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-32	Calibration report for WELL F-32	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-33	Calibration report for WELL F-33	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-34	Calibration report for WELL F-34	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-35	Calibration report for WELL F-35	Every Five Years	Every Five Years	28-FEB-2021
WELL - F-36	Calibration report for WELL F-36	Every Five Years	Every Five Years	28-FEB-2021

Permit Condition No: 18 **Permit Condition Code:** WUSTD022-1

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - 1	Monthly withdrawal for WELL 1	Monthly	Quarterly	31-OCT-2020
WELL - 3	Monthly withdrawal for WELL 3	Monthly	Quarterly	31-OCT-2020
WELL - 4	Monthly withdrawal for WELL 4	Monthly	Quarterly	31-OCT-2020
WELL - 6	Monthly withdrawal for WELL 6	Monthly	Quarterly	31-OCT-2020
WELL - 7	Monthly withdrawal for WELL 7	Monthly	Quarterly	31-OCT-2020
WELL - 8	Monthly withdrawal for WELL 8	Monthly	Quarterly	31-OCT-2020
WELL - 9	Monthly withdrawal for WELL 9	Monthly	Quarterly	31-OCT-2020
WELL - 10	Monthly withdrawal for WELL 10	Monthly	Quarterly	31-OCT-2020
WELL - 11	Monthly withdrawal for WELL 11	Monthly	Quarterly	31-OCT-2020
WELL - 12	Monthly withdrawal for WELL 12	Monthly	Quarterly	31-OCT-2020
WELL - 13	Monthly withdrawal for WELL 13	Monthly	Quarterly	31-OCT-2020
WELL - 14	Monthly withdrawal for WELL 14	Monthly	Quarterly	31-OCT-2020
WELL - 15	Monthly withdrawal for WELL 15	Monthly	Quarterly	31-OCT-2020
WELL - 16	Monthly withdrawal for WELL 16	Monthly	Quarterly	31-OCT-2020
WELL - 17	Monthly withdrawal for WELL 17	Monthly	Quarterly	31-OCT-2020

Exhibit No: 7

Requirement by Permit Condition Report

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - 18	Monthly withdrawal for WELL 18	Monthly	Quarterly	31-OCT-2020
WELL - 19	Monthly withdrawal for WELL 19	Monthly	Quarterly	31-OCT-2020
WELL - 20	Monthly withdrawal for WELL 20	Monthly	Quarterly	31-OCT-2020
WELL - 22	Monthly withdrawal for WELL 22	Monthly	Quarterly	31-OCT-2020
WELL - 24	Monthly withdrawal for WELL 24	Monthly	Quarterly	31-OCT-2020
WELL - 25	Monthly withdrawal for WELL 25	Monthly	Quarterly	31-OCT-2020
WELL - 26	Monthly withdrawal for WELL 26	Monthly	Quarterly	31-OCT-2020
WELL - 27	Monthly withdrawal for WELL 27	Monthly	Quarterly	31-OCT-2020
WELL - 28	Monthly withdrawal for WELL 28	Monthly	Quarterly	31-OCT-2020
WELL - 29	Monthly withdrawal for WELL 29	Monthly	Quarterly	31-OCT-2020
WELL - 30	Monthly withdrawal for WELL 30	Monthly	Quarterly	31-OCT-2020
WELL - 31	Monthly withdrawal for WELL 31	Monthly	Quarterly	31-OCT-2020
WELL - 32	Monthly withdrawal for WELL 32	Monthly	Quarterly	31-OCT-2020
WELL - 33	Monthly withdrawal for WELL 33	Monthly	Quarterly	31-OCT-2020
WELL - 34	Monthly withdrawal for WELL 34	Monthly	Quarterly	31-OCT-2020
WELL - 35	Monthly withdrawal for WELL 35	Monthly	Quarterly	31-OCT-2020
WELL - 36	Monthly withdrawal for WELL 36	Monthly	Quarterly	31-OCT-2020
WELL - 37	Monthly withdrawal for WELL 37	Monthly	Quarterly	31-OCT-2020
WELL - F-1	Monthly withdrawal for WELL F-1	Monthly	Quarterly	31-OCT-2020
WELL - F-2	Monthly withdrawal for WELL F-2	Monthly	Quarterly	31-OCT-2020
WELL - F-3	Monthly withdrawal for WELL F-3	Monthly	Quarterly	31-OCT-2020
WELL - F-4	Monthly withdrawal for WELL F-4	Monthly	Quarterly	31-OCT-2020
WELL - F-5	Monthly withdrawal for WELL F-5	Monthly	Quarterly	31-OCT-2020
WELL - F-6	Monthly withdrawal for WELL F-6	Monthly	Quarterly	31-OCT-2020
WELL - F-7	Monthly withdrawal for WELL F-7	Monthly	Quarterly	31-OCT-2020
WELL - F-8	Monthly withdrawal for WELL F-8	Monthly	Quarterly	31-OCT-2020
WELL - F-9	Monthly withdrawal for WELL F-9	Monthly	Quarterly	31-OCT-2020
WELL - F-10	Monthly withdrawal for WELL F-10	Monthly	Quarterly	31-OCT-2020
WELL - F-11	Monthly withdrawal for WELL F-11	Monthly	Quarterly	31-OCT-2020
WELL - F-12	Monthly withdrawal for WELL F-12	Monthly	Quarterly	31-OCT-2020
WELL - F-13	Monthly withdrawal for WELL F-13	Monthly	Quarterly	31-OCT-2020
WELL - F-14	Monthly withdrawal for WELL F-14	Monthly	Quarterly	31-OCT-2020
WELL - F-15	Monthly withdrawal for WELL F-15	Monthly	Quarterly	31-OCT-2020
WELL - F-16	Monthly withdrawal for WELL F-16	Monthly	Quarterly	31-OCT-2020
WELL - F-17	Monthly withdrawal for WELL F-17	Monthly	Quarterly	31-OCT-2020
WELL - F-18	Monthly withdrawal for WELL F-18	Monthly	Quarterly	31-OCT-2020
WELL - F-19	Monthly withdrawal for WELL F-19	Monthly	Quarterly	31-OCT-2020
WELL - F-20	Monthly withdrawal for WELL F-	Monthly	Quarterly	31-OCT-2020

Exhibit No: 7

Requirement by Permit Condition Report

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
	20			
WELL - F-21	Monthly withdrawal for WELL F-21	Monthly	Quarterly	31-OCT-2020
WELL - F-22	Monthly withdrawal for WELL F-22	Monthly	Quarterly	31-OCT-2020
WELL - F-23	Monthly withdrawal for WELL F-23	Monthly	Quarterly	31-OCT-2020
WELL - F-24	Monthly withdrawal for WELL F-24	Monthly	Quarterly	31-OCT-2020
WELL - F-25	Monthly withdrawal for WELL F-25	Monthly	Quarterly	31-OCT-2020
WELL - F-26	Monthly withdrawal for WELL F-26	Monthly	Quarterly	31-OCT-2020
WELL - F-27	Monthly withdrawal for WELL F-27	Monthly	Quarterly	31-OCT-2020
WELL - F-28	Monthly withdrawal for WELL F-28	Monthly	Quarterly	31-OCT-2020
WELL - F-29	Monthly withdrawal for WELL F-29	Monthly	Quarterly	31-OCT-2020
WELL - F-30	Monthly withdrawal for WELL F-30	Monthly	Quarterly	31-OCT-2020
WELL - F-31	Monthly withdrawal for WELL F-31	Monthly	Quarterly	31-OCT-2020
WELL - F-32	Monthly withdrawal for WELL F-32	Monthly	Quarterly	31-OCT-2020
WELL - F-33	Monthly withdrawal for WELL F-33	Monthly	Quarterly	31-OCT-2020
WELL - F-34	Monthly withdrawal for WELL F-34	Monthly	Quarterly	31-OCT-2020
WELL - F-35	Monthly withdrawal for WELL F-35	Monthly	Quarterly	31-OCT-2020
WELL - F-36	Monthly withdrawal for WELL F-36	Monthly	Quarterly	31-OCT-2020

Permit Condition No: 20 **Permit Condition Code:** WUPWS003-1

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
PERMIT	Unaccounted for Distribution Losses for PERMIT	Yearly	Yearly	30-APR-2021

Permit Condition No: 22 **Permit Condition Code:** WUFAW002-1

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - F-19	Floridan well flow verification for WELL F-19	One time Only	One time Only	28-FEB-2021
WELL - F-20	Floridan well flow verification for WELL F-20	One time Only	One time Only	28-FEB-2021
WELL - F-21	Floridan well flow verification for WELL F-21	One time Only	One time Only	28-FEB-2021
WELL - F-22	Floridan well flow verification for WELL F-22	One time Only	One time Only	28-FEB-2021
WELL - F-23	Floridan well flow verification for WELL F-23	One time Only	One time Only	28-FEB-2021
WELL - F-24	Floridan well flow verification for WELL F-24	One time Only	One time Only	28-FEB-2021

Exhibit No: 7

Requirement by Permit Condition Report

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - F-25	Floridan well flow verification for WELL F-25	One time Only	One time Only	28-FEB-2021
WELL - F-26	Floridan well flow verification for WELL F-26	One time Only	One time Only	28-FEB-2021
WELL - F-28	Floridan well flow verification for WELL F-28	One time Only	One time Only	28-FEB-2021
WELL - F-27	Floridan well flow verification for WELL F-27	One time Only	One time Only	28-FEB-2021
WELL - F-29	Floridan well flow verification for WELL F-29	One time Only	One time Only	28-FEB-2021
WELL - F-30	Floridan well flow verification for WELL F-30	One time Only	One time Only	28-FEB-2021
WELL - F-31	Floridan well flow verification for WELL F-31	One time Only	One time Only	28-FEB-2021
WELL - F-32	Floridan well flow verification for WELL F-32	One time Only	One time Only	28-FEB-2021
WELL - F-33	Floridan well flow verification for WELL F-33	One time Only	One time Only	28-FEB-2021
WELL - F-34	Floridan well flow verification for WELL F-34	One time Only	One time Only	28-FEB-2021
WELL - F-35	Floridan well flow verification for WELL F-35	One time Only	One time Only	28-FEB-2021
WELL - F-36	Floridan well flow verification for WELL F-36	One time Only	One time Only	28-FEB-2021

Permit Condition No: 27 **Permit Condition Code:** WUWC004-1

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - F-19	Updated Table A for WELL F-19	One time Only	One time Only	01-MAR-2021
WELL - F-20	Updated Table A for WELL F-20	One time Only	One time Only	01-MAR-2021
WELL - F-22	Updated Table A for WELL F-22	One time Only	One time Only	01-MAR-2021
WELL - F-23	Updated Table A for WELL F-23	One time Only	One time Only	01-MAR-2021
WELL - F-24	Updated Table A for WELL F-24	One time Only	One time Only	01-MAR-2021
WELL - F-25	Updated Table A for WELL F-25	One time Only	One time Only	01-MAR-2021
WELL - F-26	Updated Table A for WELL F-26	One time Only	One time Only	01-MAR-2021
WELL - F-28	Updated Table A for WELL F-28	One time Only	One time Only	01-MAR-2021
WELL - F-27	Updated Table A for WELL F-27	One time Only	One time Only	01-MAR-2021
WELL - F-29	Updated Table A for WELL F-29	One time Only	One time Only	01-MAR-2021
WELL - F-30	Updated Table A for WELL F-30	One time Only	One time Only	01-MAR-2021
WELL - F-31	Updated Table A for WELL F-31	One time Only	One time Only	01-MAR-2021
WELL - F-32	Updated Table A for WELL F-32	One time Only	One time Only	01-MAR-2021
WELL - F-33	Updated Table A for WELL F-33	One time Only	One time Only	01-MAR-2021
WELL - F-34	Updated Table A for WELL F-34	One time Only	One time Only	01-MAR-2021
WELL - F-35	Updated Table A for WELL F-35	One time Only	One time Only	01-MAR-2021
WELL - F-36	Updated Table A for WELL F-36	One time Only	One time Only	01-MAR-2021
WELL - 27	Updated Table A for WELL 27	One time Only	One time Only	01-MAR-2021
WELL - 30	Updated Table A for WELL 30	One time Only	One time Only	01-MAR-2021
WELL - 31	Updated Table A for WELL 31	One time Only	One time Only	01-MAR-2021
WELL - 35	Updated Table A for WELL 35	One time Only	One time Only	01-MAR-2021

Exhibit No: 7

Requirement by Permit Condition Report

Permit Condition No: 28 **Permit Condition Code:** WUST001-4

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - 1	Chloride from well 1	Quarterly	Quarterly	31-OCT-2020
WELL - 3	Chloride from well 3	Quarterly	Quarterly	31-OCT-2020
WELL - 4	Chloride from well 4	Quarterly	Quarterly	31-OCT-2020
WELL - 6	Chloride from well 6	Quarterly	Quarterly	31-OCT-2020
WELL - 7	Chloride from well 7	Quarterly	Quarterly	31-OCT-2020
WELL - 8	Chloride from well 8	Quarterly	Quarterly	31-OCT-2020
WELL - 9	Chloride from well 9	Quarterly	Quarterly	31-OCT-2020
WELL - 10	Chloride from well 10	Quarterly	Quarterly	31-OCT-2020
WELL - 11	Chloride from well 11	Quarterly	Quarterly	31-OCT-2020
WELL - 12	Chloride from well 12	Quarterly	Quarterly	31-OCT-2020
WELL - 13	Chloride from well 13	Quarterly	Quarterly	31-OCT-2020
WELL - 14	Chloride from well 14	Quarterly	Quarterly	31-OCT-2020
WELL - 15	Chloride from well 15	Quarterly	Quarterly	31-OCT-2020
WELL - 16	Chloride from well 16	Quarterly	Quarterly	31-OCT-2020
WELL - 17	Chloride from well 17	Quarterly	Quarterly	31-OCT-2020
WELL - 18	Chloride from well 18	Quarterly	Quarterly	31-OCT-2020
WELL - 19	Chloride from well 19	Quarterly	Quarterly	31-OCT-2020
WELL - 20	Chloride from well 20	Quarterly	Quarterly	31-OCT-2020
WELL - 22	Chloride from well 22	Quarterly	Quarterly	31-OCT-2020
WELL - 24	Chloride from well 24	Quarterly	Quarterly	31-OCT-2020
WELL - 25	Chloride from well 25	Quarterly	Quarterly	31-OCT-2020
WELL - 26	Chloride from well 26	Quarterly	Quarterly	31-OCT-2020
WELL - 27	Chloride from well 27	Quarterly	Quarterly	31-OCT-2020
WELL - 28	Chloride from well 28	Quarterly	Quarterly	31-OCT-2020
WELL - 29	Chloride from well 29	Quarterly	Quarterly	31-OCT-2020
WELL - 30	Chloride from well 30	Quarterly	Quarterly	31-OCT-2020
WELL - 31	Chloride from well 31	Quarterly	Quarterly	31-OCT-2020
WELL - 32	Chloride from well 32	Quarterly	Quarterly	31-OCT-2020
WELL - 33	Chloride from well 33	Quarterly	Quarterly	31-OCT-2020
WELL - 34	Chloride from well 34	Quarterly	Quarterly	31-OCT-2020
WELL - 36	Chloride from well 36	Quarterly	Quarterly	31-OCT-2020
WELL - 35	Chloride from well 35	Quarterly	Quarterly	31-OCT-2020
WELL - 37	Chloride from well 37	Quarterly	Quarterly	31-OCT-2020
WELL - 1	Water Level for Well 1	Monthly	Quarterly	31-OCT-2020
WELL - 3	Water Level for Well 3	Monthly	Quarterly	31-OCT-2020
WELL - 4	Water Level for Well 4	Monthly	Quarterly	31-OCT-2020
WELL - 6	Water Level for Well 6	Monthly	Quarterly	31-OCT-2020
WELL - 7	Water Level for Well 7	Monthly	Quarterly	31-OCT-2020
WELL - 8	Water Level for Well 8	Monthly	Quarterly	31-OCT-2020
WELL - 9	Water Level for Well 9	Monthly	Quarterly	31-OCT-2020
WELL - 10	Water Level for Well 10	Monthly	Quarterly	31-OCT-2020
WELL - 11	Water Level for Well 11	Monthly	Quarterly	31-OCT-2020
WELL - 12	Water Level for Well 12	Monthly	Quarterly	31-OCT-2020
WELL - 13	Water Level for Well 13	Monthly	Quarterly	31-OCT-2020
WELL - 14	Water Level for Well 14	Monthly	Quarterly	31-OCT-2020
WELL - 15	Water Level for Well 15	Monthly	Quarterly	31-OCT-2020

Exhibit No: 7

Requirement by Permit Condition Report

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - 16	Water Level for Well 16	Monthly	Quarterly	31-OCT-2020
WELL - 17	Water Level for Well 17	Monthly	Quarterly	31-OCT-2020
WELL - 18	Water Level for Well 18	Monthly	Quarterly	31-OCT-2020
WELL - 19	Water Level for Well 19	Monthly	Quarterly	31-OCT-2020
WELL - 20	Water Level for Well 20	Monthly	Quarterly	31-OCT-2020
WELL - 22	Water Level for Well 22	Monthly	Quarterly	31-OCT-2020
WELL - 24	Water Level for Well 24	Monthly	Quarterly	31-OCT-2020
WELL - 25	Water Level for Well 25	Monthly	Quarterly	31-OCT-2020
WELL - 26	Water Level for Well 26	Monthly	Quarterly	31-OCT-2020
WELL - 27	Water Level for Well 27	Monthly	Quarterly	31-OCT-2020
WELL - 28	Water Level for Well 28	Monthly	Quarterly	31-OCT-2020
WELL - 29	Water Level for Well 29	Monthly	Quarterly	31-OCT-2020
WELL - 30	Water Level for Well 30	Monthly	Quarterly	31-OCT-2020
WELL - 31	Water Level for Well 31	Monthly	Quarterly	31-OCT-2020
WELL - 32	Water Level for Well 32	Monthly	Quarterly	31-OCT-2020
WELL - 33	Water Level for Well 33	Monthly	Quarterly	31-OCT-2020
WELL - 34	Water Level for Well 34	Monthly	Quarterly	31-OCT-2020
WELL - 35	Water Level for Well 35	Monthly	Quarterly	31-OCT-2020
WELL - 36	Water Level for Well 36	Monthly	Quarterly	31-OCT-2020
WELL - 37	Water Level for Well 37	Monthly	Quarterly	31-OCT-2020
WELL - F-1	Chloride for Well F-1	Quarterly	Quarterly	31-OCT-2020
WELL - F-2	Chloride for Well F-2	Quarterly	Quarterly	31-OCT-2020
WELL - F-3	Chloride for Well F-3	Quarterly	Quarterly	31-OCT-2020
WELL - F-4	Chloride for Well F-4	Quarterly	Quarterly	31-OCT-2020
WELL - F-5	Chloride for Well F-5	Quarterly	Quarterly	31-OCT-2020
WELL - F-6	Chloride for Well F-6	Quarterly	Quarterly	31-OCT-2020
WELL - F-7	Chloride for Well F-7	Quarterly	Quarterly	31-OCT-2020
WELL - F-8	Chloride for Well F-8	Quarterly	Quarterly	31-OCT-2020
WELL - F-9	Chloride for Well F-9	Quarterly	Quarterly	31-OCT-2020
WELL - F-10	Chloride for Well F-10	Quarterly	Quarterly	31-OCT-2020
WELL - F-11	Chloride for Well F-11	Quarterly	Quarterly	31-OCT-2020
WELL - F-12	Chloride for Well F-12	Quarterly	Quarterly	31-OCT-2020
WELL - F-13	Chloride for Well F-13	Quarterly	Quarterly	31-OCT-2020
WELL - F-14	Chloride for Well F-14	Quarterly	Quarterly	31-OCT-2020
WELL - F-15	Chloride for Well F-15	Quarterly	Quarterly	31-OCT-2020
WELL - F-16	Chloride for Well F-16	Quarterly	Quarterly	31-OCT-2020
WELL - F-17	Chloride for Well F-17	Quarterly	Quarterly	31-OCT-2020
WELL - F-18	Chloride for Well F-18	Quarterly	Quarterly	31-OCT-2020
WELL - F-19	Chloride for Well F-19	Quarterly	Quarterly	31-OCT-2020
WELL - F-20	Chloride for Well F-20	Quarterly	Quarterly	31-OCT-2020
WELL - F-21	Chloride for Well F-21	Quarterly	Quarterly	31-OCT-2020
WELL - F-22	Chloride for Well F-22	Quarterly	Quarterly	31-OCT-2020
WELL - F-23	Chloride for Well F-23	Quarterly	Quarterly	31-OCT-2020
WELL - F-24	Chloride for Well F-24	Quarterly	Quarterly	31-OCT-2020
WELL - F-25	Chloride for Well F-25	Quarterly	Quarterly	31-OCT-2020
WELL - F-26	Chloride for Well F-26	Quarterly	Quarterly	31-OCT-2020

Exhibit No: 7

Requirement by Permit Condition Report

Facility Name	Requirement Name	Col Freq	Sub Freq	Due Date
WELL - F-27	Chloride for Well F-27	Quarterly	Quarterly	31-OCT-2020
WELL - F-28	Chloride for Well F-28	Quarterly	Quarterly	31-OCT-2020
WELL - F-29	Chloride for Well F-29	Quarterly	Quarterly	31-OCT-2020
WELL - F-30	Chloride for Well F-30	Quarterly	Quarterly	31-OCT-2020
WELL - F-31	Chloride for Well F-31	Quarterly	Quarterly	31-OCT-2020
WELL - F-32	Chloride for Well F-32	Quarterly	Quarterly	31-OCT-2020
WELL - F-33	Chloride for Well F-33	Quarterly	Quarterly	31-OCT-2020
WELL - F-34	Chloride for Well F-34	Quarterly	Quarterly	31-OCT-2020
WELL - F-35	Chloride for Well F-35	Quarterly	Quarterly	31-OCT-2020
WELL - F-36	Chloride for Well F-36	Quarterly	Quarterly	31-OCT-2020

Exhibit No: 7

STAFF REPORT DISTRIBUTION LIST

PUBLIC SUPPLY W U P PORT ST LUCIE UTILITY SYSTEM

Application No: 200520-7

Permit No: 56-00142-W

INTERNAL DISTRIBUTION

X Jeffery Scott

EXTERNAL DISTRIBUTION

X Permittee - Port St Lucie Utility System Department

X Primary Compliance Contact - Port St Lucie Utility System Department

OTHER INTERESTED PARTIES

X City of Fort Pierce Assistant City Engineer

Exhibit No:8

APPENDIX B

CITY OF PORT ST. LUCIE

CODE EXCERPTS

APPENDIX-B
CODE EXCERPTS

Sec. 65.01. Title.

This chapter shall be known and shall be cited as the Port St. Lucie Water System User Rules.

Sec. 65.02. Council findings.

(a) The city desires to comply with the conditions imposed by South Florida Water Management District in its Water Use Permit, No. 56-00142-W, issued to the city on November 14, 1996.

(b) This chapter is enacted pursuant to all general and special law authority of the city for the purpose of providing the necessary regulations for the use of water in the interest of the public health, safety, and welfare. This chapter shall apply and be enforced in all areas of the city and to persons who are, by contract or agreement with the city, users of the water system, regardless of their residency.

(c) Water is a precious resource and a water conservation plan is necessary to prevent over utilization during periods of water shortages and to allocate available water supplies

(d) Conservation of water during water shortages will protect the water resources of the city from harm; will ensure equitable distribution of available water resources among all water users during times of shortage; and will provide advance knowledge of the means by which water apportionments and reductions will be made during times of shortage

Sec. 65.04. Applicability of chapter

.
The provisions of sections 65.05 through 65.07 shall be applicable when either SFWMD or the city manager determines that a water shortage or water shortage emergency exists and shall apply to all users (Ord. 97-36, passed 5-27-97).

Sec. 65.05. Authorization of city manager.

(a) Upon determination that a water shortage or water shortage emergency exists pursuant to the city manager shall be authorized to administer, implement, and enforce water use restrictions for certain nonessential purposes, including but not limited to those purposes listed in section 65.06.

(b) In enforcing the restrictions, the city manager is authorized to impose penalties as set forth in section 65.07.

(c) The city manager may delegate administration, implementation, and enforcement responsibility of this section to agencies and departments of the city government in accordance with state and local law. passed 5-27-97)

Sec. 65.06. **Water use restrictions**.
(a) This section establishes limitations and restrictions on the quantity and use of water during water shortages and water shortage emergencies. The specific limitations set forth herein and other restrictions and limitations of this chapter are subject to change when necessary, to enable the city to provide for efficient water conservation.

b) The city manager has the authority to administer, implement, and enforce certain restrictions on the use of water, including but not limited to:

(1) Any and all limitations imposed by SFWMD as may be modified from time to time, including but not limited to those restrictions imposed by Florida Administrative Code, Chapter 40E-21.

(2) The washing of vehicles, except bona fide business enterprises where vehicle washing is done with recycled water.

(3) The washing of building exteriors and paved areas such as sidewalks and driveways, with the exception of certain business enterprises, when necessary to protect the public safety and welfare of the establishment's patrons.

(4) The washing of any business or industrial equipment and machinery.

(5) The filling of swimming and wading pools, with the exception of small amounts of make-up water for units with recirculation systems.

(6) The escape of water through defective plumbing, which shall mean knowingly permitting defective plumbing to remain out of repair (Ord. 97-36, passed 5-27-97).

Editor's note: The document referred to as Florida Administrative Code, Chapter 40E-21 is not printed herein but is on file and available for reference in the offices of the city manager, utility department, city clerk, and community relations.

Sec. 65.07. Penalties; enforcement.

(a) Any person who shall violate any provision of section 65.06 shall be subject to prosecution in the name of the state in the same manner as misdemeanors are prosecuted and shall be subject to the penalties provided in section 10.99. A separate offense shall be deemed committed upon each day during which a violation occurs or continues.

(b) In addition to the penalties provided in subsection (a) above, the provisions of section 65.05 may be enforced by appropriate action or proceeding in a court of competent jurisdiction in order to prevent or abate violations of the above-referenced section or by any other enforcement proceedings allowed by law, including but not limited to emergency injunctive relief.

(c) In addition to any other penalties or enforcement actions provided herein, the provisions of this chapter may further be enforced by proceedings brought before the Port St. Lucie Code Enforcement Board or by the issue and prosecution of a citation, as provided by law or ordinance (Ord. 97-36, passed 5-27-97).

APPENDIX C

POPULATION ESTIMATES 2017-2022

FINISHED WATER ANNUAL DEMAND

PER CAPITA USAGE RATE

Table 1. Estimates of Population by County and City in Florida, 2022

(Continued)

County, City, and State	April 1 2022 Estimate	Total Change 2020–2022	April 1 2020 Census	Revenue Sharing Use Only: Inmates	Revenue Sharing Use Only: Estimates less Inmates April 1, 2022
Polk County	770,019	44,973	725,046	3,284	766,735
Auburndale	17,453	1,837	15,616	0	17,453
Bartow	19,653	344	19,309	145	19,508
Davenport	10,824	1,781	9,043	0	10,824
Dundee	5,575	340	5,235	0	5,575
Eagle Lake	3,391	383	3,008	0	3,391
Fort Meade	5,173	73	5,100	0	5,173
Frostproof	2,998	121	2,877	0	2,998
Haines City	31,979	5,310	26,669	0	31,979
Highland Park	246	-5	251	0	246
Hillcrest Heights	243	0	243	0	243
Lake Alfred	6,762	388	6,374	0	6,762
Lake Hamilton	1,560	23	1,537	0	1,560
Lakeland	120,279	7,638	112,641	0	120,279
Lake Wales	17,359	998	16,361	0	17,359
Mulberry	4,040	88	3,952	0	4,040
Polk City	2,956	243	2,713	0	2,956
Winter Haven	53,331	4,112	49,219	0	53,331
UNINCORPORATED	466,197	21,299	444,898	3,139	463,058
Putnam County	74,249	928	73,321	468	73,781
Crescent City	1,692	38	1,654	0	1,692
Interlachen	1,446	5	1,441	0	1,446
Palatka	10,529	83	10,446	0	10,529
Pomona Park	789	5	784	0	789
Welaka	747	33	714	0	747
UNINCORPORATED	59,046	764	58,282	468	58,578
St. Johns County	296,919	23,494	273,425	152	296,767
Marineland (part)	3	0	3	0	3
St. Augustine	15,346	1,017	14,329	0	15,346
St. Augustine Beach	6,914	111	6,803	0	6,914
UNINCORPORATED	274,656	22,366	252,290	152	274,504
St. Lucie County	350,518	21,292	329,226	127	350,391
Fort Pierce	47,841	544	47,297	116	47,725
Port St. Lucie	224,916	20,065	204,851	11	224,905
St. Lucie Village	574	-39	613	0	574
UNINCORPORATED	77,187	722	76,465	0	77,187
Santa Rosa County	196,834	8,834	188,000	4,216	192,618
Gulf Breeze	6,380	78	6,302	0	6,380
Jay	547	23	524	0	547
Milton	10,154	-43	10,197	0	10,154
UNINCORPORATED	179,753	8,776	170,977	4,216	175,537

Table 1. Estimates of Population by County and City in Florida, 2021

(Continued)

County, City, and State	April 1 2021 Estimate	Total Change 2020–2021	April 1 2020 Census	Revenue Sharing Use Only Inmates	Revenue Sharing Use Only Estimates less Inmates April 1, 2021
Polk County	748,365	23,319	725,046	2,926	745,439
Auburndale	16,539	923	15,616	0	16,539
Bartow	19,539	230	19,309	133	19,406
Davenport	10,552	1,509	9,043	0	10,552
Dundee	5,551	316	5,235	0	5,551
Eagle Lake	3,191	183	3,008	0	3,191
Fort Meade	5,107	7	5,100	0	5,107
Frostproof	2,944	67	2,877	0	2,944
Haines City	29,179	2,510	26,669	0	29,179
Highland Park	252	1	251	0	252
Hillcrest Heights	249	6	243	0	249
Lake Alfred	6,568	194	6,374	0	6,568
Lake Hamilton	1,568	31	1,537	0	1,568
Lakeland	116,421	3,780	112,641	0	116,421
Lake Wales	17,001	640	16,361	0	17,001
Mulberry	4,011	59	3,952	0	4,011
Polk City	2,902	189	2,713	0	2,902
Winter Haven	51,126	1,907	49,219	0	51,126
UNINCORPORATED	455,665	10,767	444,898	2,793	452,872
Putnam County	73,673	352	73,321	354	73,319
Crescent City	1,662	8	1,654	0	1,662
Interlachen	1,443	2	1,441	0	1,443
Palatka	10,468	22	10,446	0	10,468
Pomona Park	781	-3	784	0	781
Welaka	719	5	714	0	719
UNINCORPORATED	58,600	318	58,282	354	58,246
St. Johns County	285,533	12,108	273,425	127	285,406
Marineland (part)	3	0	3	0	3
St. Augustine	14,976	647	14,329	0	14,976
St. Augustine Beach	6,888	85	6,803	0	6,888
UNINCORPORATED	263,666	11,376	252,290	127	263,539
St. Lucie County	340,060	10,834	329,226	112	339,948
Fort Pierce	48,038	741	47,297	29	48,009
Port St. Lucie	214,514	9,663	204,851	0	214,514
St. Lucie Village	611	-2	613	0	611
UNINCORPORATED	76,897	432	76,465	83	76,814
Santa Rosa County	191,911	3,911	188,000	4,390	187,521
Gulf Breeze	6,359	57	6,302	0	6,359
Jay	547	23	524	0	547
Milton	10,160	-37	10,197	0	10,160
UNINCORPORATED	174,845	3,868	170,977	4,390	170,455

Table 1. Estimates of Population by County and City in Florida, 2020

(Continued)

County, City, and State	April 1 2020 Estimate	Total Change 2010–2020	April 1 2010 Census	Revenue Sharing Use Only ‡ Inmates	Revenue Sharing Use Only ‡ Estimates less Inmates April 1, 2020
Polk County	715,090	112,995	602,095	3,159	711,931
Auburndale	17,120	3,613	13,507	0	17,120
Bartow	20,757	3,459	17,298	156	20,601
Davenport	7,323	4,435	2,888	0	7,323
Dundee	5,159	1,442	3,717	0	5,159
Eagle Lake	2,785	530	2,255	0	2,785
Fort Meade	5,833	207	5,626	0	5,833
Frostproof	3,454	462	2,992	0	3,454
Haines City*	27,268	6,708	20,560	0	27,268
Highland Park	266	36	230	0	266
Hillcrest Heights	243	-11	254	0	243
Lake Alfred	6,351	1,336	5,015	0	6,351
Lake Hamilton	1,556	325	1,231	0	1,556
Lakeland	109,238	11,816	97,422	0	109,238
Lake Wales	16,386	2,161	14,225	0	16,386
Mulberry	4,100	283	3,817	0	4,100
Polk City	2,490	928	1,562	0	2,490
Winter Haven	47,044	13,170	33,874	0	47,044
UNINCORPORATED*	437,717	62,095	375,622	3,003	434,714
Putnam County	73,723	-641	74,364	464	73,259
Crescent City	1,589	12	1,577	0	1,589
Interlachen	1,372	-31	1,403	0	1,372
Palatka	10,770	212	10,558	0	10,770
Pomona Park	883	-29	912	0	883
Welaka	723	22	701	0	723
UNINCORPORATED	58,386	-827	59,213	464	57,922
St. Johns County	261,900	71,861	190,039	138	261,762
Hastings*******	0	-580	580	0	0
Marineland (part)	2	2	0	0	2
St. Augustine	15,306	2,331	12,975	0	15,306
St. Augustine Beach	6,852	676	6,176	0	6,852
UNINCORPORATED	239,740	69,432	170,308	138	239,602
St. Lucie County	322,265	44,476	277,789	108	322,157
Fort Pierce	44,476	2,886	41,590	31	44,445
Port St. Lucie	202,914	38,311	164,603	6	202,908
St. Lucie Village	661	71	590	0	661
UNINCORPORATED	74,214	3,208	71,006	71	74,143
Santa Rosa County	184,653	33,281	151,372	4,968	179,685
Gulf Breeze	5,910	147	5,763	0	5,910
Jay	527	-6	533	0	527
Milton	10,767	1,941	8,826	77	10,690
UNINCORPORATED	167,449	31,199	136,250	4,891	162,558

Table 1. Estimates of Population by County and City in Florida, 2019

(Continued)

County, City, and State	April 1 2019 Estimate	Total Change 2010–2019	April 1 2010 Census	Revenue Sharing Use Only Inmates	Revenue Sharing Use Only Estimates less Inmates April 1, 2019
Polk County	690,606	88,511	602,095	3,263	687,343
Auburndale	16,534	3,027	13,507	0	16,534
Bartow	19,665	2,367	17,298	176	19,489
Davenport	6,038	3,150	2,888	0	6,038
Dundee	4,957	1,240	3,717	0	4,957
Eagle Lake	2,649	394	2,255	0	2,649
Fort Meade	5,786	160	5,626	0	5,786
Frostproof	3,197	205	2,992	0	3,197
Haines City*	25,533	4,973	20,560	0	25,533
Highland Park	263	33	230	0	263
Hillcrest Heights	256	2	254	0	256
Lake Alfred	6,199	1,184	5,015	0	6,199
Lake Hamilton	1,430	199	1,231	0	1,430
Lakeland	107,552	10,130	97,422	0	107,552
Lake Wales	16,062	1,837	14,225	0	16,062
Mulberry	3,983	166	3,817	0	3,983
Polk City	2,321	759	1,562	0	2,321
Winter Haven	44,815	10,941	33,874	0	44,815
UNINCORPORATED*	423,366	47,744	375,622	3,087	420,279
Putnam County	73,268	-1,096	74,364	478	72,790
Crescent City	1,583	6	1,577	0	1,583
Interlachen	1,350	-53	1,403	0	1,350
Palatka	10,723	165	10,558	0	10,723
Pomona Park	880	-32	912	0	880
Welaka	717	16	701	0	717
UNINCORPORATED	58,015	-1,198	59,213	478	57,537
St. Johns County	254,412	64,373	190,039	145	254,267
Hastings******	0	-580	580	0	0
Marineland (part)	2	2	0	0	2
St. Augustine	14,653	1,678	12,975	0	14,653
St. Augustine Beach	6,749	573	6,176	0	6,749
UNINCORPORATED	233,008	62,700	170,308	145	232,863
St. Lucie County	309,359	31,570	277,789	129	309,230
Fort Pierce	43,653	2,063	41,590	38	43,615
Port St. Lucie	191,903	27,300	164,603	5	191,898
St. Lucie Village	646	56	590	0	646
UNINCORPORATED	73,157	2,151	71,006	86	73,071
Santa Rosa County	179,054	27,682	151,372	4,952	174,102
Gulf Breeze	5,849	86	5,763	0	5,849
Jay	521	-12	533	0	521
Milton	10,551	1,725	8,826	76	10,475
UNINCORPORATED	162,133	25,883	136,250	4,876	157,257

Table 1. Estimates of Population by County and City in Florida, 2018

(Continued)

County, City, and State	April 1 2018 Estimate	Total Change 2010–2018	April 1 2010 Census	Revenue Sharing Use Only Inmates	Revenue Sharing Use Only Estimates less Inmates April 1, 2018
Polk County	673,028	70,933	602,095	3,155	669,873
Auburndale	16,246	2,739	13,507	0	16,246
Bartow	19,342	2,044	17,298	158	19,184
Davenport	5,602	2,714	2,888	0	5,602
Dundee	4,662	945	3,717	0	4,662
Eagle Lake	2,574	319	2,255	0	2,574
Fort Meade	5,993	367	5,626	0	5,993
Frostproof	3,130	138	2,992	0	3,130
Haines City*	24,298	3,738	20,560	0	24,298
Highland Park	258	28	230	0	258
Hillcrest Heights	253	-1	254	0	253
Lake Alfred	5,950	935	5,015	0	5,950
Lake Hamilton	1,380	149	1,231	0	1,380
Lakeland	105,586	8,164	97,422	0	105,586
Lake Wales	15,791	1,566	14,225	0	15,791
Mulberry	3,865	48	3,817	0	3,865
Polk City	2,088	526	1,562	0	2,088
Winter Haven	42,828	8,954	33,874	0	42,828
UNINCORPORATED*	413,182	37,560	375,622	2,997	410,185
Putnam County	72,981	-1,383	74,364	481	72,500
Crescent City	1,553	-24	1,577	0	1,553
Interlachen	1,339	-64	1,403	0	1,339
Palatka	10,649	91	10,558	0	10,649
Pomona Park	871	-41	912	0	871
Welaka	712	11	701	0	712
UNINCORPORATED	57,857	-1,356	59,213	481	57,376
St. Johns County	238,742	48,703	190,039	156	238,586
Hastings******	0	-580	580	0	0
Marineland (part)	2	2	0	0	2
St. Augustine	14,021	1,046	12,975	0	14,021
St. Augustine Beach	6,713	537	6,176	0	6,713
UNINCORPORATED	218,006	47,698	170,308	156	217,850
St. Lucie County	302,432	24,643	277,789	138	302,294
Fort Pierce	43,326	1,736	41,590	52	43,274
Port St. Lucie	185,843	21,240	164,603	6	185,837
St. Lucie Village	634	44	590	0	634
UNINCORPORATED	72,629	1,623	71,006	80	72,549
Santa Rosa County	174,887	23,515	151,372	4,807	170,080
Gulf Breeze	5,849	86	5,763	0	5,849
Jay	521	-12	533	0	521
Milton	10,186	1,360	8,826	60	10,126
UNINCORPORATED	158,331	22,081	136,250	4,747	153,584

Table 1. Estimates of Population by County and City in Florida, 2017

(Continued)

County, City, and State	April 1 2017 Estimate	Total Change 2010–2017	April 1 2010 Census	Revenue Sharing Use Only Inmates	Revenue Sharing Use Only Estimates less Inmates April 1, 2017
Polk County (Continued)					
Hillcrest Heights	255	1	254	0	255
Lake Alfred	5,903	888	5,015	0	5,903
Lake Hamilton	1,334	103	1,231	0	1,334
Lakeland	104,185	6,763	97,422	0	104,185
Lake Wales	15,365	1,140	14,225	0	15,365
Mulberry	3,851	34	3,817	0	3,851
Polk City	1,793	231	1,562	0	1,793
Winter Haven	41,134	7,260	33,874	0	41,134
UNINCORPORATED*	407,963	32,341	375,622	2,945	405,018
Putnam County	73,176	-1,188	74,364	446	72,730
Crescent City	1,555	-22	1,577	0	1,555
Interlachen	1,344	-59	1,403	0	1,344
Palatka	10,662	104	10,558	0	10,662
Pomona Park	873	-39	912	0	873
Welaka	717	16	701	0	717
UNINCORPORATED	58,025	-1,188	59,213	446	57,579
St. Johns County	229,715	39,676	190,039	192	229,523
Hastings	642	62	580	0	642
Marineland (part)	2	2	0	0	2
St. Augustine	13,862	887	12,975	0	13,862
St. Augustine Beach	6,633	457	6,176	0	6,633
UNINCORPORATED	208,576	38,268	170,308	192	208,384
St. Lucie County	297,634	19,845	277,789	125	297,509
Fort Pierce	43,409	1,819	41,590	32	43,377
Port St. Lucie	181,284	16,681	164,603	6	181,278
St. Lucie Village	643	53	590	0	643
UNINCORPORATED	72,298	1,292	71,006	87	72,211
Santa Rosa County	170,835	19,463	151,372	4,867	165,968
Gulf Breeze	5,838	75	5,763	0	5,838
Jay	533	0	533	0	533
Milton	10,130	1,304	8,826	78	10,052
UNINCORPORATED	154,334	18,084	136,250	4,789	149,545
Sarasota County	407,260	27,812	379,448	6	407,254
Longboat Key (part)	4,523	33	4,490	0	4,523
North Port	67,196	9,839	57,357	0	67,196
Sarasota	54,641	2,724	51,917	6	54,635
Venice	22,306	1,558	20,748	0	22,306
UNINCORPORATED	258,594	13,658	244,936	0	258,594

JEA and Prineville Water Treatment Plant
Finished Water Total Demand History (Average MGD)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Average
January	12.79	13.99	13.54	14.48	15.20	15.17	17.54	16.13	16.58	17.41	18.73	18.65	16.13
February	13.52	13.77	13.94	14.38	15.14	15.17	16.17	17.15	16.94	17.48	18.28	19.25	15.93
March	14.28	13.74	14.61	14.47	15.37	16.26	16.70	18.77	16.91	20.79	20.02	19.94	16.82
April	14.18	14.85	14.60	15.31	15.71	16.80	17.68	19.47	17.66	18.92	20.36	21.30	17.24
May	14.83	14.22	14.28	15.63	16.72	16.42	17.00	17.09	17.79	18.17	21.70	20.90	17.06
June	14.91	13.24	13.49	14.19	16.86	16.10	14.99	15.75	17.49	17.67	18.63	19.93	16.10
July	13.02	13.94	12.81	13.64	15.30	16.24	15.59	16.81	17.32	17.98	18.42	20.52	15.97
August	12.70	13.25	13.56	14.62	14.95	15.26	15.75	16.84	16.50	17.75	17.99	21.48	15.89
September	12.46	12.85	12.81	14.17	14.39	15.18	15.06	17.35	16.62	17.02	17.95	19.30	15.43
October	12.44	12.52	14.04	14.51	15.71	15.40	14.72	17.72	16.98	16.42	18.70	19.58	15.73
November	12.92	13.39	14.07	14.67	15.69	15.40	15.59	16.98	17.07	16.86	18.07	19.57	15.86
December	13.05	13.20	14.12	15.02	15.19	16.65	16.05	16.77	17.24	17.79	18.68	19.55	16.11
Average	13.43	13.58	13.82	14.59	15.52	15.84	16.07	17.24	17.09	17.86	18.96	20.00	16.19

POPULATION - BEBR ESTIMATES	166,041	167,252	167,914	169,888	174,132	178,091	181,278	185,837	191,898	202,908	214,514	224,905
U.S. Census Bureau	164,603	167,104	168,935	170,726	174,068	179,413	189,119	194,808	201,846	204,913	217,535	223,333

5 Year (2018-2022)	
Average	6,621.80
Monthly Average	551.82
Daily Average	18.39
Customers	88,421.00
Service Population	221,052.50
PCUR	83.21

APPENDIX D

ST. LUCIE WEST SERVICES DISTRICT

WATER SUPPLY WORK PLAN UPDATE

ST. LUCIE WEST SERVICES DISTRICT

WATER SUPPLY FACILITIES WORK PLAN UPDATE

JUNE 2019

INFRASTRUCTURE SOLUTION SERVICES

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Section 1 - Introduction

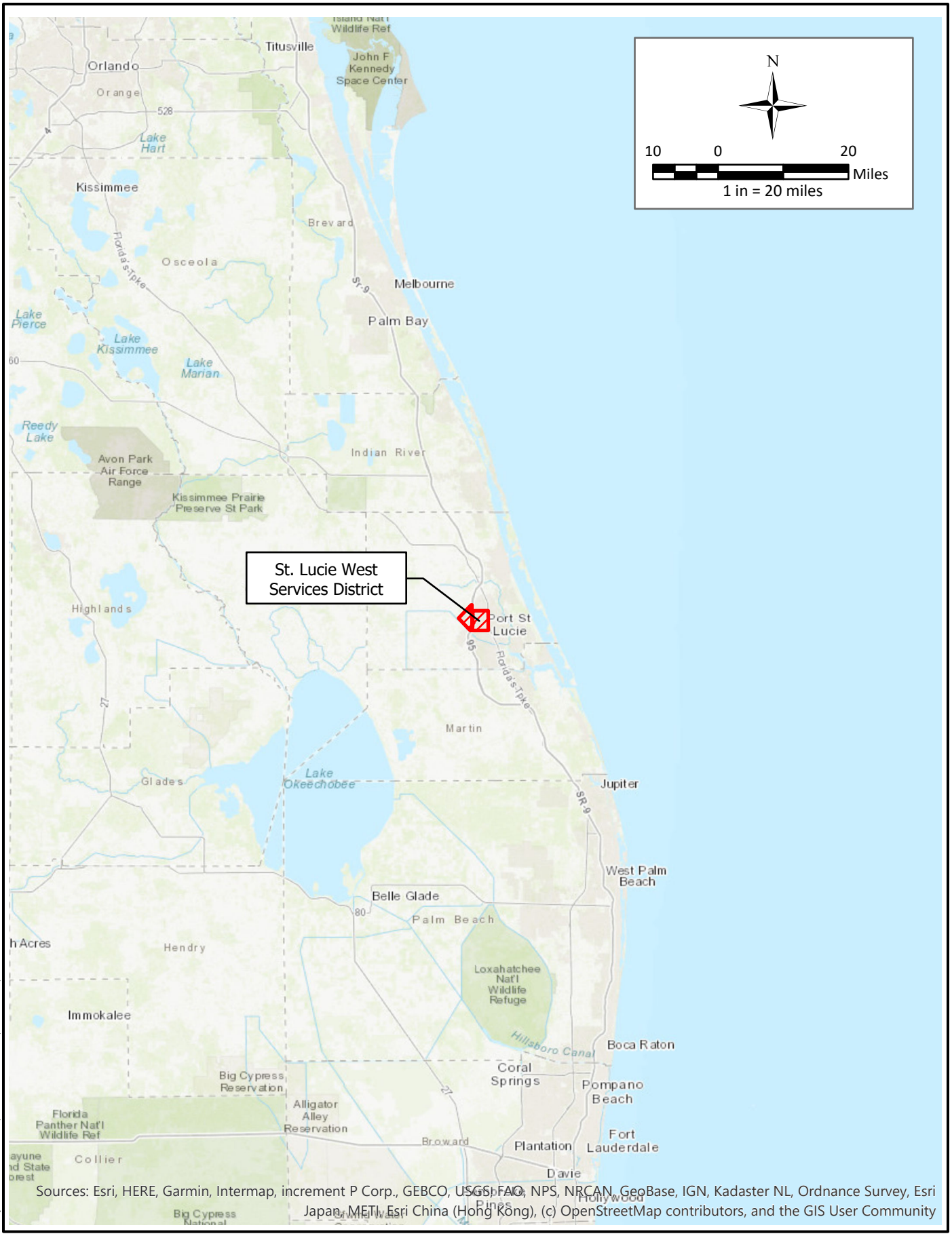
1.1 Background

The St. Lucie West Services District (SLWSD) serves the master-planned community of St. Lucie West (SLW) within the City of Port St. Lucie. A map showing the location of SLW and Port St. Lucie is provided on Figure 1-1. The SLWSD covers an area of approximately 4,600 acres and serves a current population of approximately 14,100 residents. The SLWSD is a local government unit created pursuant to the Uniform Community Development District Act of 1980, Chapter 190 of the Florida Statutes.

The SLWSD serves the entire SLW Community as well as a portion of the adjacent Community Development District (CDD), The Reserve, which is located west of the SLWSD. The Reserve CDD owns and operates its own water treatment facility and is only partially served by the SLWSD. There is an Interconnect Agreement with SLWSD to purchase Alternative Bulk Water with automatic 5-year incremental renewals. Currently, The Reserve has purchased 0.5 MGD of SLWSD's potable water capacity. The Interconnect Agreement allows The Reserve to purchase up to 0.75 MGD of capacity. However, The Reserve is not expected to increase beyond the current 0.5 MGD allocation. The Interconnect Agreement dated November 3, 2003 and the Interconnect Agreement amendment dated April 2, 2013 between SLWSD and The Reserve CDD are provided in Appendix A. The current population of The Reserve is approximately 5,300 residents with an estimated population served by SLWSD of approximately 2,600 residents.

The SLWSD operates the potable water system in compliance with the Florida Department of Environmental Protection (FDEP) and South Florida Water Management District (SFWMD). Currently, the SLWSD is authorized to withdraw brackish water from the Floridan Aquifer through Water Use Permit No. 56-00614-W. The permit does not expire until September 2025 and limits the quantity of groundwater that may be withdrawn on an annual (851 MG) and maximum month basis (80.8178 MG). This brackish groundwater supply from the Floridan Aquifer has a chloride content greater than 1,000 mg/L and is, therefore, considered an alternate water supply.

The potable water supply system consists of three groundwater production wells (RO-1, RO-2, and RO-3) capable of withdrawing 2,000 gpm per well. The raw groundwater is pumped to the reverse osmosis (RO) water treatment facility owned and operated by SLWSD. The concentrate from the RO process is primarily disposed of by deep well injection with a portion used as supplemental reuse.



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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SLWSD Location Map
Water Supply Facilities Work Plan Update
St. Lucie West Services District

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FIGURE NO. 1-1

1.2 Purpose and Scope

The primary purpose of the Water Supply Facilities Work Plan Update (WSWP) is to improve coordination between water management districts and local governments by ensuring that potable water is available to meet the growing demands of local communities within the State of Florida. In 2002, the Florida legislature changed Chapter 163 of the Florida Statutes requiring local governments to prepare a work plan in response to water supply plans prepared by the water management districts and incorporate work plans into the local comprehensive plans. The Florida Legislature continued to improve the coordination of water supply planning and local land use planning in 2005 by making additional changes to Chapters 163 and 373, Florida Statutes. Changes to these chapters required that local governments incorporate alternative water supply projects into their comprehensive plan within 18 months of the adoption of a regional water supply plan. The 2005 changes also required that water be available for new development before a certificate of occupancy may be issued.

In March of 2016, the SFWMD published The Upper East Coast (UEC) Water Supply Plan Update which "identifies sufficient water supply sources and future projects to meet existing and future reasonable-beneficial uses during a 1-in-10 year drought condition while sustaining water resources and related natural systems". This WSWP has been prepared in accordance with the 2016 UEC Water Supply Plan Update. Therefore, this WSWP can be used to prepare Comprehensive Plan amendments such that adopted Comprehensive Plans are in accordance with the water supply projections, goals, and strategies identified in the 2016 UEC Water Supply Plan Update.

1.3 Regional Water Supply Plan

The SFWMD recently completed the 2016 UEC Water Supply Plan Update (further referred to as 2016 UEC Plan Update) addressing the water resources, water demands, water supply development projects, and related water supply planning information for the areas included in the SFWMD Upper East Coast (Martin and St. Lucie Counties, as well as a portion of Okeechobee County). As noted in the 2019 *Water Supply Facilities Work Plan Update SFWMD Technical Assistance Guide*, the 2016 UEC Plan Update identified the following water supply issues.

1. New uses of surface water from the C-23, C-24, and C-25 canals are limited in accordance with Restricted Allocation Area (RAA) criteria.
2. Surface water allocations from Lake Okeechobee and the C-44 Canal are limited in accordance with the Lake Okeechobee Service Area RAA criteria.
3. If the region experiences change in crop types and irrigated acreage, construction of additional surface water storage systems may be required to increase water availability.

4. Potential decreases in Floridan aquifer system water levels may result in artesian flow reductions for agricultural users in portions of Martin and St. Lucie counties.
5. Expansion of surficial aquifer system withdrawals is limited due to potential impacts to wetlands as well as the increased potential for saltwater intrusion. New or increased allocations of water from the surficial aquifer system in coastal areas beyond those currently permitted require detailed evaluation.
6. Existing freshwater flows affect the health of the St. Lucie River and Estuary and southern Indian River Lagoon.

The 2019 *Water Supply Facilities Work Plan Update SFWMD Technical Assistance Guide* indicates that the following topics related to water supply need to be considered and summarized in local WSWPs.

1. Local Government Overview
2. Water Supply Data and Analysis
3. Relevant Regional Water Supply Issues
4. Water Supply Planning Time Frames
5. Local Population Projections
6. Identification of Current and Future Areas Served
7. Areas Served by Domestic Self-Supply Systems
8. Potable Water Level of Service Standards
9. Water Demand Projections
10. Water Supply Sources and Projects
11. Water Suppliers
12. Water Supply Conservation and Reuse Efforts
13. Intergovernmental Coordination Activities
14. Sector Plans
15. Capital Improvements Schedule/Water Supply Projects
16. Comprehensive Plan Goals, Objectives, and Policies

It is the intention of this WSWP to address and summarize the water supply topics noted above as they apply to the SLWSD. Please note that several water supply issues noted in the 2016 UEC Water Supply Update and several of the water supply topics noted above are not applicable to the SLWSD due to the relatively small areal extent and location of the associated service area. As a result, this WSWP update has been limited to the relevant UEC water supply issues and water supply work plan topics.

The SLWSD is located in an area where the surficial aquifer system has been identified as a limited water resource. Therefore, withdrawals from the surficial aquifer system are limited and users are encouraged to continue developing alternative water supply sources and employ water conservation measures. The UEC Planning Area is required to adopt a WSWP identifying the need and source of alternative water supply(s). The SLWSD has been involved and continues to be involved in the development of alternative water supplies. The Floridan Aquifer, where the SLWSD makes groundwater withdrawals, is brackish groundwater and considered an alternative water supply. SLWSD completed a project through 2012-2013 to expand the RO treatment capacity at the water treatment facility from 3.4 MGD to 3.6 MGD using brackish water which demonstrates SLWSD's ongoing commitment to alternative water supplies.

1.4 Port St. Lucie Comprehensive Plan

According to the City of Port St. Lucie's website, the City's Comprehensive Plan (Comp Plan) was last updated in 2012 including adoption of Evaluation and Appraisal Report (EAR) based amendments. The Infrastructure Element Section of the City's Comp Plan includes the SLWSD and The Reserve CDD. SLWSD is within the City's limits and the City's Service Area, while The Reserve is located in unincorporated St. Lucie County but also within the City's Service Area. Since both of these CDDs are located within the City's service area, they are included in the City of Port St. Lucie's Comprehensive Plan.

As identified in the Infrastructure Element of the City's Comp Plan, the SLWSD water system serves an approximately seven square-mile service area as well as suppling potable water to The Reserve through an Interconnect Agreement. Brackish groundwater is pumped from the Floridan Aquifer and treated by the 3.6 MGD reverse osmosis treatment plant with the brine concentrate disposed of primarily by deep injection well.

Section 2 - Existing System

2.1 Service Area

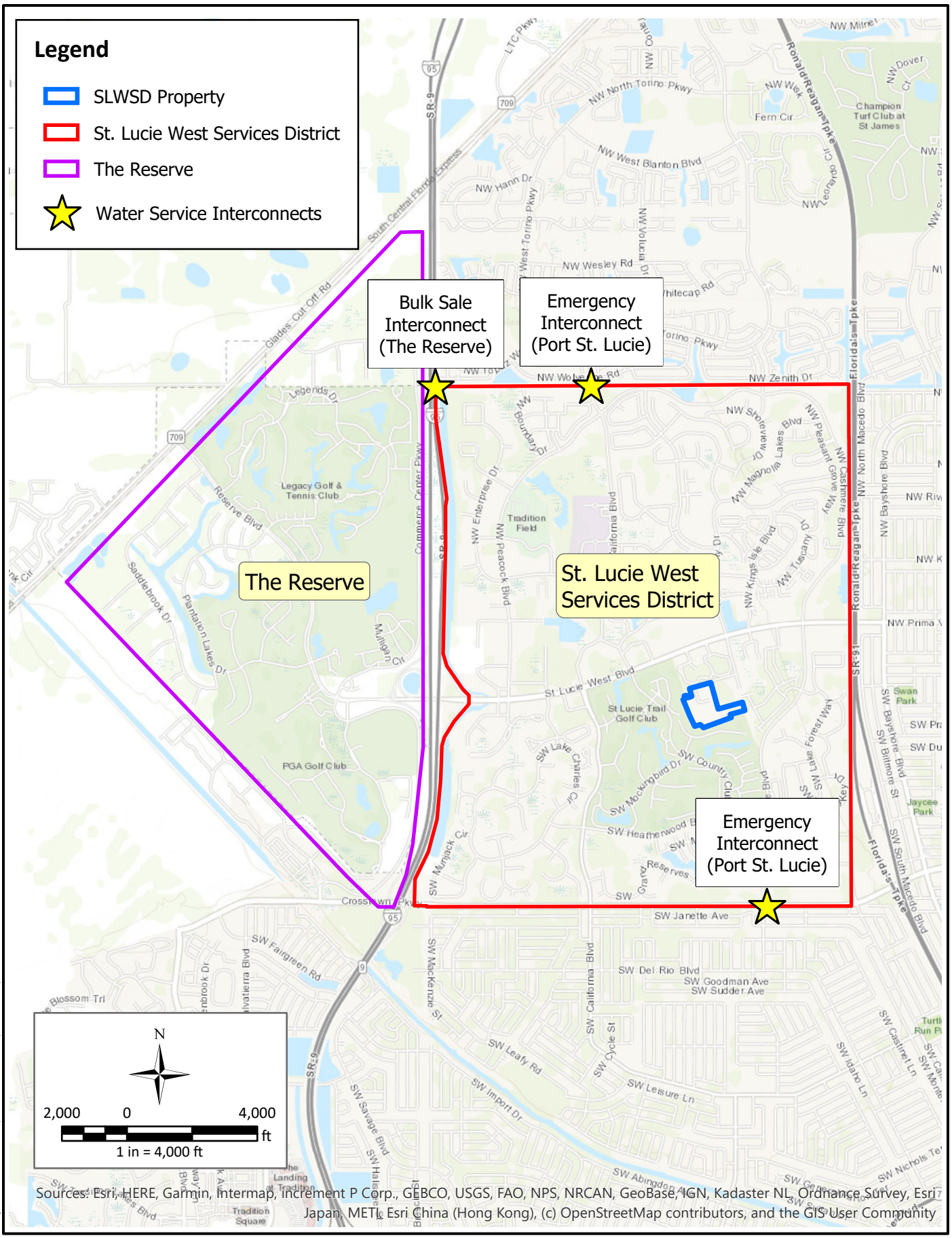
SLWSD currently owns, operates, and maintains its potable water, wastewater, and reuse irrigation system. The SLWSD serves the entire District as well as part of The Reserve CDD through an Interconnect Agreement. The Reserve CDD has purchased 2,000 water Equivalent Residential Connections (ERCs) from the SLWSD with the option of purchasing 1,000 additional ERCs through 2023. The optional 1,000 ERCs are not expected to be purchased as the existing 2,000 ERCs will likely meet demand for the anticipated buildout of The Reserve CDD. The water service area for the SLWSD including The Reserve CDD area located west of I-95 is shown on Figure 2-1.

2.2 Water Supply Agreements

As a water supplier, it is important for the SLWSD to establish, maintain, and revise agreements related to water supply to best serve the existing and future needs of their users. The SLWSD has entered into specific agreements with The Reserve and the City of Port St. Lucie related to alternative water supply, potable, non-potable, and other water supply issues.

Through the Interconnect Agreement between SLWSD and The Reserve CDD, The Reserve CDD will purchase alternative bulk water through 2023. The SLWSD has issued 2,000 Equivalent Residential Connections (ERCs) with the option of selling an additional 1,000 ERCs. The Reserve CDD does not anticipate requiring the purchase of the additional 1,000 ERCs, thus the SLWSD will likely provide a total of 2,000 ERCs or approximately 15.2 million gallons per month through the duration of the contract. The Reserve CDD currently purchases water and wastewater services from SLWSD. The Reserve no longer treats wastewater, with all wastewater flow from The Reserve being treated at the SLWSD wastewater treatment facility.

The SLWSD has entered into an Inter-local Agreement with the City of Port St. Lucie Utility Department that allows for emergency potable water interconnections through two 12-inch metered connections. In the event of an emergency, City of Port St. Lucie domestic water can flow into the SLWSD to supplement water produced at the SLWSD RO treatment facility. Conversely, water treated within the SLWSD can supplement the City's water system. The approximate interconnect locations with The Reserve (bulk sale) and Port St. Lucie (emergency) are shown on Figure 2-1.



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SLWSD Service Area
Water Supply Facilities Work Plan Update
St. Lucie West Services District

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FIGURE NO. 2-1

2.3 Historical Population and Water Usage

The SLWSD provides domestic water service to the SLWSD population as well as a portion (approximately 50%) of The Reserve CCD population. Table 2-1 provides a summary historical estimates of populations served by SLWSD.

Table 2-1 SLWSD Historical Service Area Population

Year	*SLWSD Population*	*The Reserve Estimated Population Served*	*Total Service Area Population Served*
2013	13,398	2,193	15,591
2014	13,569	2,302	15,870
2015	13,739	2,513	16,252
2016	13,856	2,548	16,404
2017	13,987	2,582	16,568
2018	14,096	2,616	16,712

Source: 2019 WUP Modification Report.

Operating data and sales records maintained by SLWSD were used to calculate per capita treated and raw water usage rates for the past six years. These average annual usage rates and per capita flows are summarized in Table 2-2.

Table 2-2 Average Annual Water Usage and Per Capita Flow

Year	*Estimated Population Served*	*Total Treated Water Use (MGD)*	*Water Use per Capita (gpcd)*	*Total Raw Water Use (MGD)*	*Raw Water Use per Capita (gpcd)*
2013	15,591	1.58	101.1	2.10	134.8
2014	15,870	1.66	104.6	2.21	139.4
2015	16,252	1.57	96.5	2.09	128.6
2016	16,404	1.59	96.9	2.12	129.2
2017	16,568	1.64	99.1	2.19	132.2
2018	16,712	1.69	100.9	2.25	134.6

Source: 2019 WUP Modification Report.

In addition to the annual average flows, the maximum monthly flows over the past five years were used to determine the ratio of maximum monthly average daily flow (MMADF) to the annual average daily flow (AADF). For the raw groundwater withdrawn for treatment, the maximum monthly flow varied from 2.22 MGD in 2015 to 2.49 MGD in 2017. On average, the MMADF to AADF ratio varied from 1.061 to 1.138 with an average ratio of 1.11 between 2014 and 2018. The maximum monthly flows and the MMADF to AADF ratios for each of the past five years is provided in Table 2-3.

Table 2-3 Maximum Monthly Flows and Ratios

Year	*Maximum Monthly Use (MGD)*	*Ratio Max:Avg*
2014	2.48	1.119
2015	2.22	1.061
2016	2.38	1.121
2017	2.49	1.138
2018	2.48	1.103

Source: 2019 WUP Modification Report.

2.4 Consumptive Use Permit

SLWSD is authorized to withdraw brackish groundwater from the Floridan Aquifer through Water Use Permit No. 56-00614-W (provided in Appendix B). The permit does not expire until September 2025 and limits the quantity of groundwater that may be withdrawn on an annual (851 MG or 2.33 MGD average day basis) and maximum month basis (80.8178 MG or 2.61 MGD monthly average). A permit modification to increase these withdrawal rates is currently under review by the SFWMD, since 90% of the permitted allocation has already been reached. The proposed withdrawal allocation is 1,132 MG per year or 3.10 MGD on an average day basis. The proposed permit modification also limits the maximum monthly allocation to 108.5 MG or roughly 3.5 MGD monthly average. The SLWSD Water Use Permit expires in September 2025, though the adjustments in the proposed modification are intended to take effect immediately upon approval by SFWMD.

2.5 Drinking Water System

The SLWSD drinking water system withdraws brackish groundwater from supply wells for treatment by membrane filtration. The raw groundwater is treated to meet drinking water standards before being distributed to customers for consumption. SLWSD has a dedicated irrigation system with little to no potable water being used for irrigation of lawns or landscaping.

2.5.1 Water Supply

Originally, SLWSD's primary source for drinking water was groundwater from the surficial aquifer. The surficial aquifer was a suitable source of potable water (among other uses) because of its high yield, proximity to land surface, and high quality. However, with the growth experienced in the County, the surficial aquifer as a resource is less dependable due to environmental concerns and as a result, alternative water sources are now being used by the SLWSD.

The alternative water source being used by SLWSD is the Floridan Aquifer. The Floridan Aquifer is a brackish water source that requires more advanced treatment than groundwater from the surficial aquifer. The use of Floridan Aquifer groundwater as a source for potable water production requires membrane filtration to remove minerals to meet drinking water standards. Because of this, a percentage of the water withdrawn is not suitable for consumption as the water is concentrated with the minerals (aka treatment losses).

SLWSD currently uses three Floridan Aquifer production wells to withdrawal raw groundwater. Details for the production wells are shown in Table 2-4. Raw groundwater pumped from the Floridan Aquifer is pumped to the RO water treatment plant. The existing raw water transmission system is approximately 3,100 linear feet of raw water main consisting of approximately 2,500 feet of 12-inch PVC and 600 feet of 16-inch PVC.

Table 2-4 SLWSD Floridan Aquifer Production Wells

Production Wells	*RO-1*	*RO-2*	*RO-3*
Status	Existing	Existing	Existing
Well Diameter (in)	18	18	12
Total Depth (ft)	1,014	1,142	1,269
Cased Depth (ft)	908	885	865
Pump Capacity (gpm)	2,000	2,000	2,000

Source: 2019 WUP Modification Report.

2.5.2 Treatment, Storage, and High Service Pumping

The water treatment plant currently has a permitted capacity of 3.6 MGD on a maximum daily flow basis. The original surficial water treatment plant was constructed in 1987 with a capacity of 1.0 MGD. The facility was expanded around 2000 and converted to a membrane softening treatment plant with a 2.0 MGD capacity. The Reverse Osmosis Water Treatment Plant (ROWTP) includes chemical additions, cartridge filtration, reverse osmosis membranes, calcite contactors, degasification, disinfection, fluoridation, storage, and high service pumping. The ROWTP was upgraded in 2005 with

an expanded capacity of 3.4 MGD and expanded again in 2013 to 3.6 MGD. A map showing the water treatment facility including the locations of the three production wells is provided on Figure 2-2.

The recovery efficiency of the plant has varied between 72.4% and 76% in the last five years, with an average recovery efficiency of 75.1%. SLWSD does not anticipate long-term average recovery efficiencies to vary significantly from these observed values. Table 2-5 summarizes these average annual recovery efficiencies.

Table 2-5 Water System Recovery Efficiency

Year	*Percent Water Recovery*
2013	72.4%
2014	76.7%
2015	75.4%
2016	74.9%
2017	76.0%

Source: 2019 WUP Modification Report.

After the raw groundwater is treated, stabilized, and disinfected, the finished water is stored in two, 2.0 MG ground storage tanks. The tanks allow SLWSD to meet the diurnal demands of the system and limit ROWTP operation to 12 to 16 hours per day. High service pumps located at the water treatment facility distribute the potable water to the customers in the service area. The operating pressure of the water distribution system is generally maintained around 60 psi.

The treatment plant has a standby electrical power source in case of power failure. The standby power for the facility is provided by a diesel fueled auxiliary generator located in the high service pump room. The generator will continue to be utilized for the public water supply wells.

2.5.3 Distribution System

The water distribution system consists of PVC or ductile iron pipe ranging in size from 6 to 24 inches in diameter. Construction of the water distribution system started in 1987 with expansions occurring with development. The age of the distribution system is 25 years or less and considered to be no more than half of its system useful life (approximately 50 years).

SLWSD estimates that unaccounted for water in the system is between 8% and 11% annually. Unaccounted for water (sometimes referred to as unbilled water) is un-metered water used for line flushing, hydrant testing, firefighting, construction, etc. as well as water losses due to system leakage.

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SLWSD ROWTP Site Plan
Water Supply Facilities Work Plan Update
St. Lucie West Services District

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FIGURE NO. 2-2

2.5.4 System Interconnects

SLWSD has system interconnects with two other suppliers of potable water: Port St. Lucie and The Reserve CDD. The two interconnects with the City of Port St. Lucie allows potable water to be pumped to or from the City in case of an emergency. The other interconnect is with The Reserve CDD for bulk sale from SLWSD to The Reserve. The interconnects are shown on Figure 2-1.

2.6 Water Conservation Plan

The water conservation program implemented by SLWSD complies with the conditions set forth in the SFWMD Water Use Permit No. 56-00614-W. Water consumption within the District is relatively low at approximately 100 gpd per capita as discussed in Section 2.3. This low consumption rate is attributed to the following factors:

1. Irrigation system owned, maintained, and controlled by SLWSD offsetting potable water use for irrigation purposes. The irrigation system utilizes 100% of the treated effluent from the wastewater reclamation facility along with supplemental surface water and groundwater to supply the needed irrigation water.

2. The utility does not allow private irrigation wells within the development.

3. Relatively new development requiring water conserving plumbing fixtures.

4. Significant use of drought tolerant plants in landscaping.

This conservation plan addresses water conservation with five primary methods, as outlined in the criteria of the SFWMD applicant's handbook.

Public Education Program

SLWSD provides an array of water conservation general information and tips to customers through the District's website. These materials include lists of strategies that can be implemented in daily life to reduce water consumption and quantify the environmental and financial benefits of such choices. SLWSD also supplies information regarding the proper methods of leak detection and determination of water losses from such leaks of different sizes. These resources allow customers to quantify the water savings possible through small lifestyle adjustments and maintenance, and contextualize these savings both environmentally and financially.

Outdoor Water Use Conservation Program

The irrigation system is a significant component in conserving water use in SLWSD. The irrigation system has a set schedule that residents and businesses must follow. The schedule is strongly enforced including during periods of water restriction as issued by SFWMD. A significant portion of this water utilized for irrigation is sourced from the wastewater reclamation facility. 100% of the effluent from this wastewater reclamation facility is designated to irrigation needs, decreasing the total water consumption required from groundwater sources. Such reuse significantly reduces SLWSD's required water consumption while still meeting irrigation demands.

Economic Incentives via Rate Structuring

The monthly rate structure for SLWSD is as follows:

Meter Size	Water Base Charge	Sewer Base Charge
5/8" or 3/4"	$15.42	$19.29
1"	$38.56	$48.22
1-1/2"	$77.12	$96.40
2"	$123.40	$154.22
3"	$246.76	$308.46
4"	$385.59	$481.99
6"	$771.17	$964.00
8"	$1,233.89	$1,542.36

Water Commodity Charge per 1,000 gallons of metered water = $3.47
Sewer Commodity Charge per 1,000 gallons of metered water = $3.86

Additionally, a monthly irrigation base rate charge of $18.45 is applied to single family homes to utilize the water reclamation facility effluent.

Water Loss Reduction Program

Water losses do not constitute a significant proportion of the expected water consumption and are not a current cause of concern. A water loss reduction program is not necessary at this time.

Indoor Water Conservation Program

SLWSD offers a monetary rebate program for the retrofitting of high-efficiency toilets and showerheads, as outline in Chapter III, Section 38 of the SLWSD Operating Policies and Procedures, titled "Water Conservation Rebate Program". This initiative provides financial assistance for customers replacing existing, higher consumption toilets and shower heads with new, standard low consumption toilets and shower heads in their households or places of business.

Section 3 - Future Water Supply System

3.1 Projected Water Use

There are no anticipated changes to the service area boundary for SLWSD. Growth in the service area in predominately commercial with some potential residential growth. Both the SLWSD and The Reserve are near buildout. The expected increase in water consumption within the service area will occur through growth in SLWSD or The Reserve CDD and is accounted for in the bulk user agreement and the pending Water Use Permit modification.

The projected water use for the SLWSD is provided in Table 3-1. The population projections are based on a 0.8% growth rate for the service area as interpolated from the projections presented in the 2016 *UEC Water Supply Plan Update*. With a per capita flow of 99.6 gpcd for SLWSD and committed capacity for The Reserve CDD of up to 0.5 MGD, the annual average potable water demand is 2.34 MGD in 2040.

Table 3-1 Projected Annual Average Potable Water Demand

Year	*Projected Total Treated Water Use (MGD)*	*Projected Water Use per Capita (gpcd)*
2019	1.70	99.6
2020	1.73	99.6
2025	1.89	99.6
2030	2.05	99.6
2035	2.20	99.6
2040	2.34	99.6

Source: 2019 WUP Modification Report.

The projected raw water demand for the system was calculated using the recovery efficiencies discussed in Section 2 and shown in Table 2-5. Future projected raw water use are based on an average recovery efficiency of 75% is used.

Table 3-2 Projected Annual Raw Water Demand

Year	*Projected Total Treated Water Use (MGD)*	*Projected Treatment Losses (MGD)*	*Projected Total Raw Water Use (MGD)*	*Projected Raw Water Use per Capita (gpcd)*	*Projected Maximum Monthly Raw Water Use (MGD)*
2019	1.70	0.57	2.27	132.8	2.57
2020	1.73	0.57	2.30	132.8	2.60
2025	1.89	0.64	2.53	132.8	2.86
2030	2.05	0.68	2.73	132.8	3.08
2035	2.20	0.73	2.93	132.8	3.31
2040	2.34	0.78	3.12	132.8	3.53

Source: 2019 WUP Modification Report.

3.2 Surplus/Deficit Projections

Using the projected water demands and groundwater withdrawals presented in Section 3.1, the surplus and/or deficit for the facility capacity and permitted withdrawals is calculated and shown in Table 3-3. Projected populations are consistent with the SFWMD Upper East Coast Planning Report and are multiplied by the historical per capita water demand to calculate the annual average daily demand. The population served for The Reserve is initially determined from current flows and increased up to the committed capacity of 0.5 MGD outlined in the Interconnect Agreement. The RO recovery efficiency is assumed to remain constant in future projections.

For the current year (2019), SLWSD is estimated to only have a 0.06 MGD surplus in permitted withdrawals. In 2020, the surplus is estimated to drop to 0.03 MGD. Therefore, SLWSD is currently in the process of modifying their water use permit to a proposed permitted withdrawal amount of 3.10 MGD through the year 2039. Without an approved water use permit modification, a permitted deficit is expected to be reached by 2021. With the projected increase in the withdrawal allocation, the surplus increases to 0.8 MGD in 2020 and steadily decreases as it reaches the end of the permit. The anticipated permit renewal in 2039 may require an additional increase depending on the water use, population, and water demand of The Reserve.

At the highest water demands, the treatment facility still experiences a facility capacity surplus of 1.68 MGD on an annual average day basis. A conservative maximum day factor for SLWSD water system is 1.4 resulting in a maximum daily raw water demand of 4.4 MGD. This maximum day demand provides a 0.4 MGD surplus compared to the available raw treatment capacity of 4.8 MGD.

Table 3-3 Projected Facility Capacity and Permitted Withdrawal Surplus/Deficit

Item	*2019*	*2020*	*2025*	*2030*	*2035*	*2040*
SLWSD Population Served	14,421	14,591	15,443	16,296	17,148	18,000
The Reserve Population Served (Estimated)	2,698	2,733	3,573	4,290	4,895	5,500
Total Population Served	17,119	17,324	19,016	20,586	22,043	23,500
Demand per Capita (gpcd)	99.6	99.6	99.6	99.6	99.6	99.6
Annual Average Daily Demand (MGD)[1]	1.70	1.73	1.89	2.05	2.20	2.34
Recovery from RO Treatment Process (%)	75%	75%	75%	75%	75%	75%
Raw Groundwater Withdrawn (MGD)	2.27	2.30	2.53	2.73	2.93	3.12
Available Raw Treatment Capacity (MGD)	4.80	4.80	4.80	4.80	4.80	4.80
Facility Capacity Surplus (Deficit) (MGD)[2]	2.53	2.50	2.27	2.07	1.87	1.68
Permitted Withdrawal (MGD)[3]	2.33	3.10	3.10	3.10	3.10	3.10
Permitted Surplus (Deficit) (MGD)[4]	0.06	0.80	0.57	0.37	0.17	-0.02

Source: 2019 WUP Modification Report.

1) Product of Total Population Served and Demand per Capita.
2) Difference between Available Raw Treatment Capacity and Annual Average Daily Demand.
3) Annual average withdrawal for 2020 through 2040 based on 2019 WUP modification currently under review by SFWMD.
4) Difference between Permitted Withdrawal and Projected Raw Groundwater Withdrawn.

3.3 Alternative Water Supplies

SLWSD currently uses an alternate water supply source (i.e. groundwater from the Floridan Aquifer) for its potable water. SLWSD expanded the permitted treatment capacity of the facility from its original capacity of 3.4 MGD to 3.6 MGD in 2012-2013.

SLWSD currently uses 100% of their treated wastewater, supplemental surface water, and occasionally supplemental groundwater as an alternative water source for landscape irrigation. SLWSD also has strict irrigation standards that promote efficient use of this alternative water source.

3.4 Future Improvements

Future improvements to SLWSD's water system primarily consist of improvements at the treatment facility in regards to treatment capacity, water quality, efficiency, and redundancy. The permitted groundwater withdrawals in the water use permit require modification (increase) to meet future demands and is currently under review by the SFWMD. Other future improvements to the system consist of routine maintenance of the supply, treatment, pumping, and distribution infrastructure.

3.4.1 Water Supply Sources

There are no future improvements necessary to meet the future demands. The pumping capacity of groundwater supply wells is 4,000 gpm (largest well out of service) based on SLWSD's normal wellfield operating schedule. With SLWSD operating 20 hours per day, this results in a water supply system that could potentially deliver 4.8 MGD which is beyond the needs of the service district.

3.4.2 Water Treatment Facilities

As previously discussed, SLWSD expanded the permitted treatment capacity of the facility from 3.4 MGD to 3.6 MGD along with the addition of redundant treatment capacity. An evaluation of each component was conducted to identify any additional improvements. These improvements were to improve the operational efficiency and maintenance requirements, including routine replacement of RO membranes. However, SLWSD did not see an increase in the efficiency as anticipated.

3.4.3 Storage and High Service Pumping

There are no plans to expand capacity of the potable water storage or high service pumping. The finished water storage currently available (4.0 MG) is adequate to meet peak demands. SLWSD is planning for upgraded software conversions of the high service pumping system and to add redundancy to the concentrate storage system. The repainting and sealing of several tanks, in addition to installing automatic flushers is also planned. SLWSD added a redundant high service pump in 2014 and is currently rehabilitating the primary high service pump station.

3.4.4 Distribution System

SLWSD plans to add an additional 2,000 linear feet of 20-inch water distribution main line to increase serviceability and effectiveness of the distribution system. The addition of a second main distribution line from the water treatment plant is also planned allow for redundancy and provide added assurance for pressure maintenance in emergency conditions.

3.5 Irrigation System

SLWSD continues to maintain and operate a significant alternative water source irrigation system to provide alternative water to their customers. SLWSD is planning on adding another supplemental surface water body to the system to meet irrigation demands. Further improvements to the high service pumps as well as PLC upgrades for the SCADA system are also planned in the near future.

3.6 Water Conservation

SLWSD has made extensive efforts in water conservation and continues to promote and enforce water conservation within its service area to meet the City of Port St. Lucie and SFWMD water conservation goals. As a result of water conservation measures, SLWSD has been successful in keeping the per capita water use relatively low at approximately 100 gpcd.

Section 4 - Summary and Recommendations

4.1 Summary

The St. Lucie West Services District (SLWSD) serves the master-planned community of St. Lucie West within the City of Port St. Lucie. The SLWSD covers an area of approximately 4,600 acres with a population of approximately 14,100 residents. The SLWSD serves the entire SLW Community as well as a portion of the adjacent Reserve CDD. The SLWSD operates the potable water system in compliance with the Florida Department of Environmental Protection and South Florida Water Management District guidelines and regulations.

The drinking water supply for SLWSD is the Floridan Aquifer. The brackish water of the Floridan Aquifer has a chlorides content greater than 1,000 mg/L and is, therefore, considered an alternate water supply. Groundwater is withdrawn from the aquifer through three groundwater production wells. The raw groundwater is pumped to the reverse osmosis (RO) water treatment facility owned and operated by SLWSD. The groundwater is treated, stored, and pumped through the distribution system to the customers. The concentrate from the RO process is disposed of by deep well injection.

Historical water use shows that average per capita water demand in the SLWSD is approximately 100 gpd. The recovery efficiency for the RO facility is approximately 75%. SLWSD's water treatment plant is nearing full permitted capacity and an application to modify the Water Use Permit is currently under review by SFWMD. The anticipated increase in water demands from The Reserve in addition to increased commercial consumption in the service area has resulted in an increase in the projected groundwater withdrawals. Based on the population projections and the committed capacity for The Reserve (0.5 MGD), an increase in the permitted withdrawals is required to meet projected future demand.

4.2 Recommendations

Recommendations for the SLWSD in regards to the water system include the proposed improvements for the transmission system to increase serviceability and effectiveness. With the recent stabilization near 75% recovery efficiency and the projected population growth, an increase in the permitted withdrawal is required. Such an increase in permitted withdrawal is currently under review by SFWMD to address demand that has surpassed 90% of the present permitted capacity. The recovery efficiency and growth in the service area should continue to be monitored to assure that groundwater withdrawals are less than the permitted quantities in the SFWMD permit.

Appendix A

The Reserve CDD Interconnect Agreement

Reserve
Community Development District

November 4, 2003

Joseph B. Teneriello, Chairman
St. Lucie West Service District
450 South West Utility Drive
Port St. Lucie, Florida 34986

Dear Chairman:

Enclosed are four executed copies of the Interconnect Agreement along with $365,010 due upon signing the agreement. The Reserve Community Development District approved the Interconnect Agreement on October 28, 2003, including all of the requested changes except the one noted at page 11 relating to reuse of IQ water. While we do not believe the regulatory agencies will ever require the Reserve to use IQ water, if they would require it, the Reserve CDD must have the option to install the IQ lines so that the water use permits at the Reserve could be renewed.

This agreement and initial payment is contingent upon the St. Lucie West Services District approval of the agreement and recording of the easement by the Industrial Association for construction of the interconnect line. The Board of Supervisors of the Reserve Community Development District appreciates your consideration of this agreement and looks forward to a long and beneficial relationship with the Board of Supervisors of St. Lucie West Services District.

Sincerely,

John Csapo
Chairman
Reserve Community Development District

RLF/pj

This Instrument Prepared By:
William D. Tyler, Esquire
Nabors, Giblin & Nickerson, P.A.
2502 Rocky Point Drive, Suite 1060
Tampa, Florida 33607

AMENDED AND RESTATED INTERCONNECT AGREEMENT

THIS AMENDED AND RESTATED INTERCONNECT AGREEMENT, is made and entered into as of the 12 day of November 2003, with respect to that certain Interconnect Agreement dated February 10, 1993 , as amended December 15, 1999, and March 21, 2000 ("Prior Agreement"), by and between the St. Lucie West Services District, a Florida community development district created pursuant to Chapter 190, Florida Statutes, as amended, and whose address is c/o District Manager, 201 N. University Drive, Suite 802, Coral Springs, Florida 33071 ("Utility"), and The Reserve Community Development District, a Florida community development district created pursuant to Chapter 190, Florida Statutes, as amended and whose address is c/o District Manager, 201 N. University Drive, Suite 802, Coral Springs, Florida 33071 ("The Reserve").

WHEREAS, Utility owns and operates a potable water pumping, treatment, transmission and distribution system and a sanitary sewer collection, transmission, treatment and disposal system serving an area consisting primarily of the St. Lucie West development located within the corporate limits of Port St. Lucie, Florida ("Utility System").

WHEREAS, The Reserve owns and operates a potable water pumping, treatment, transmission and distribution system and a sanitary sewer collection, transmission, treatment, and disposal system which serves an area adjacent to the Utility System ("Reserve System"); and,

WHEREAS, the Reserve System has a need for potable water capacity and sanitary sewer capacity and Utility System has excess potable water and sanitary sewer capacities which Utility desires to sell and The Reserve desires to buy; and

WHEREAS, the parties have determined to amend and restate the Prior Agreement to provide for the sale and purchase of potable water, sanitary sewer, and treated irrigation quality wastewater effluent ("IQ Water") capacities pursuant to the terms and conditions set forth herein; and

NOW, THEREFORE, in consideration of the payment of ten dollars ($10.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Recitations. The recitations set forth herein are true and correct.

2. Operations Under Prior Agreement. Within ten (10) days of execution of this Agreement by both parties, The Reserve agrees to pay to the Utility, and the Utility agrees to accept from the Reserve, the sum of $75,000.00 in full and complete satisfaction of any and all claims arising from Utility's provision of potable water to The Reserve under the Prior Agreement.

3. Water Service Supply Agreement and Option.

a. Initial Water ERCs. In accordance with the Prior Agreement, the Utility sold, and The Reserve purchased, 50,000 gallons per day ("gpd"), representing 200 equivalent resident connections ("ERCs"), of potable water service for resale to the customers of The Reserve System ("Initial Water ERCs").

b. Phase I and Phase II Water ERCs. The Utility hereby agrees to sell, and The Reserve hereby agrees to purchase, on the terms and conditions set forth in this Agreement, including payment of capacity (connection) charges as set forth in Sections 7.c and 7.d, (1) an additional 250,000 gpd, representing an additional 1,000 ERCs, of potable water service ("Phase I Water ERCs"), and (2) a second additional 250,000 gpd, representing a second additional 1,000 ERCs, of potable water service ("Phase II Water ERCs"), both for resale to customers of The Reserve System. **Conveyance of capacity is contingent on the completion of the water treatment plant expansion currently underway.**

c. Future Water ERCs. In addition to the potable water capacities represented by the Initial, Phase I and Phase II Water ERCs, The Reserve shall hold an option to purchase up to an additional 250,000 gpd, representing 1,000 ERCs, of additional permanent potable water capacity ("Future Water ERCs") as set forth below upon payment of connection charges for such capacity. The Reserve's option to purchase and obligation to pay for Future Water ERCs, and to pay connection charges for such capacity, shall be subject to the Utility's actual ability to provide such capacity in the quantities and quality required by this Agreement.

4. Sewer Service Supply Agreement and Option.

a. Phase I and Phase II Sewer ERCs. The Utility hereby agrees to sell, and The Reserve hereby agrees to purchase, on the terms and conditions set forth in this Agreement, including payment of capacity (connection) charges as set forth in Sections 7.c and 7.d, (1) 220,000 gpd, representing 1,100 ERCs, of sanitary sewer service ("Phase I Sewer ERCs), and (2) an additional 180,000 gpd, representing an additional 900 ERCs, of sanitary sewer service ("Phase II Sewer ERCs"), both for resale to customers of The Reserve System.

d. Payment of Phase I Connection Charges. Payment of connection charges by The Reserve to the Utility for the Phase I Water and Sewer ERCs shall be made in accordance with the minimum takedown schedule set forth in the attached Exhibit "C," subject to prepayment as provided in Section 7.f of this Agreement.

e. Payment of Phase II Connection Charges. Payment of connection charges by The Reserve to The Utility for the Phase II Water and Sewer ERCs shall be made in accordance with a build-out schedule to be provided by The Reserve as set forth in Section 9.b of this agreement, but in no event later than October 1, 2015.

f. Prepaid Connection Charges. Notwithstanding any other provision of this Agreement:

(1) Upon the earlier of the Utility either (i) issuing bonds to finance a potable water plant expansion or (ii) receiving permits for construction of such expansion and notifying The Reserve in writing of the Utility's intent to commence construction, The Reserve shall pay to the Utility the sum of $1,500,000, less previous payments.

(2) Upon the earlier of the Utility either (i) issuing bonds to finance a sanitary sewer treatment plant **modification** or (ii) receiving permits for construction of such expansion and notifying The Reserve in writing of the Utility's intent to commence construction, The Reserve shall pay to the Utility an additional sum of $1,000,000.

(3) The payments set forth in Sections 7.f (1) and (2) above shall constitute "Prepayments of Connection Charges" to be applied, first, against the minimum Phase I takedown obligations of The Reserve set forth in the attached Exhibit "C," and second, against The Reserve's obligation to purchase Phase II Water and Sewer ERCs. Such Prepaid Connection Fees shall be applied to both Water and Sewer ERCs.

(4) Any connections in excess of the foregoing Prepaid Connection Fees may be purchased by The Reserve from the Utility for an amount equal to $1,000 per water and $900 per sewer ERC, **with escalations in accordance with paragraph 7j.**

g. Gallonage (Commodity) Charges. In addition to payment of the capacity (connection) charges set forth above, The Reserve further agrees to pay the Utility's gallonage (commodity) charge for all potable water and sanitary sewer service that The Reserve receives or is scheduled to receive from the Utility. The water and sewer service rates to be paid by The Reserve are as follows:

(1) For bulk potable water service, the monthly base facility charge $600 per month, escalated with residential rates, plus a gallonage (commodity) charge equal to eighty percent (80%) of the Utility's retail water service rate (per 1,000 gallons) in effect at the time of payment.

(2) For bulk sanitary sewer service, a gallonage (commodity) charge equal to eighty percent (80%) of the Utility's retail sewer service rate (per 1,000 gallons) in effect at the time of payment.

(3) In each case, use will be billed monthly and payment shall be due within thirty (30) days of the receipt of the bill.

(4) As used in this agreement, the term "retail service rate" shall mean the amount charged by the Utility for a "typical" single family customer using less than 8,000 gallons per month.

h. Commencement of Phase I Services.

(1) The provision of the additional potable water service represented by the Phase I Water ERCs, and the payment on a take-or-pay basis of monthly service rates for the additional potable water service represented by the Phase I Water ERCs , shall commence upon the earlier of the date set forth in the takedown schedule set forth in the attached Exhibit "C," or following thirty (30) days notice to the Utility, at the option of The Reserve. **The Reserve agrees to an extension in the event construction of the Water Treatment Plant expansion by the Utility is delayed through no fault of the Utility.**

(2) The provision of the sanitary sewer service represented by the Phase I Sewer ERCs, and the payment on a take-or-pay basis of monthly service rates for the sanitary sewer service represented by the Phase I Sewer ERCs, shall commence upon the earlier of the date set forth in the takedown schedule set forth in the attached Exhibit "C," or following thirty (30) days notice to the Utility, at the option of The Reserve. The Utility agrees to an extension in the event construction of the Sewer Interconnect by The Reserve is delayed through no fault of The Reserve.

i. Commencement of Phase II Services. The provision of additional potable water and sanitary sewer service represented by the Phase II Water and Sewer ERCs, and the payment of monthly service rates for such service as and when received, shall commence in accordance with a build-out schedule to be provided by The Reserve as set forth in Section 9.b of this Agreement.

j. Increases in Charges; Limitations. Subject to applicable law, the Utility may amend or revise from time to time in the future, the rates or connection charges referenced in this Agreement, and The Reserve agrees to be bound by such rates or charges as amended, provided, however, that (1) increases in water and sewer rates and connection charges applicable to The Reserve shall in no event exceed, on a percentage basis, increases applicable throughout the balance of the service area of the Utility System, and (2) increases in the IQ water rates applicable to The Reserve shall be subject to the limitations set forth in Section 14.b of this Agreement.

k. Limited Take-or-Pay. The Reserve acknowledges and agrees that payment of gallonage (commodity) charges for potable water and sanitary sewer service that The Reserve receives or is scheduled to receive from the Utility in accordance with the takedown schedule set forth in the attached Exhibit "C," representing the Initial Water ERCs and the Phase I Water and Sewer ERCs, is on a take-or-pay basis for a period of twenty (20) years, commencing on the date hereof, and that such obligation is an essential part of the consideration for this Agreement without which the Utility would not have entered into this Agreement.

(1) The Take-or-Pay provision shall end after 20 years at which time all charges will be based on actual monthly usage; and

(2) The Take-or-Pay amount charged monthly will be based on 80% of the purchased capacity to allow for peak flows.

l. Minimum Charges. Based upon the provisions set forth in Section 7.a through k above, the parties agree that during the first five (5) years of this Agreement, (1) the minimum connection fees to be received by the Utility for the Phase I Water and Sewer ERCs, and (2) the minimum gallonage (commodity) charges to be received by the Utility for potable water and sanitary sewer service represented by the Initial Water ERCs and the Phase I Water and Sewer ERCs, shall be as set forth in the attached Exhibit "C."

8. Water and Sewer Meters.

a. Location, Ownership, and Maintenance. The Interconnect facilities shall include water and sewer meters to be purchased and constructed by Utility and owned and operated by the Utility and located at the Points of Interconnection, as depicted on the map attached as Exhibit B. The parties agree that the meters shall be used to calculate The Reserve's water and sewer use. The Utility shall maintain the water and sewer meters as part of the Interconnect facilities.

b. Point of Delivery. The Reserve side of the meters shall be the point of delivery of water and sewer service ("Point of Delivery"). Water and sewage shall be considered

the property and responsibility of the other party once it has passed through Point of Delivery.

c. Water and Sewer Pressure at Point of Delivery. At all times during the term of this Agreement, including any renewal, the Utility agrees to maintain a minimum water pressure at a level of sixty pounds per square inch (60 PSI) at the Point of Delivery and to maintain maximum sewer pressure at a level of thirty pounds per square inch (30 PSI) at the Point of Delivery.

d. Meter Condition. The meters used for measuring the quantity of water delivered and sewer received from The Reserve shall be in good mechanical condition and shall be adequate in size and design for the type service which is provided. The meters shall be adjusted to register within prescribed accuracy limits as set forth in Rule 25-30.262, Florida Administrative Code, or its successor provisions and shall be recalibrated on internals not exceeding every two (2) years. If either party requires a bench or field test of the meters, that party agrees to pay, all costs related to the testing including, but not limited to the cost of acquiring and installing a replacement meter on a temporary basis. However, if the meter is found to register outside prescribed accuracy limits, pursuant to Rule 25-30.262, Florida Administrative Code, then all costs of the testing (including replacement meter) shall be paid by The Utility. Disputes resulting from over billing or under billing due to meter inaccuracy shall be handled pursuant to the provisions in the Utility's Tariff or by the applicable rules of the regulatory agency having jurisdiction over such matters.

9. Future Capacity.

a. The Utility agrees to provide Phase II and Future Water and Sewer ERCs as may be required by The Reserve in 25,000 gpd increments. Payment of connection charges shall be due four (4) months prior to the capacity being required.

b. On or before November 1 of each year commencing in 2004, The Reserve agrees to provide the Utility with a five (5) year build-out schedule which shall identify the number of ERCs The Reserve reasonably expects to utilize in each of the five (5) succeeding years. This build-out schedule is intended to assist the Utility in its capital improvement planning for plant expansion, and not necessarily a limitation on capacity available to The Reserve in any given year. The capacity takedown schedule for the Phase I Water and Sewer ERCs is set forth in the attached Exhibit "C." The Utility agrees to provide such capacity in excess of the requirements of Exhibit "C," subject to such reasonable terms and conditions, particularly adequate construction lead time.

c. Notwithstanding anything herein to the contrary, the Utility shall have no obligation to provide water or sewer capacity through the Interconnects unless connection charges therefor have been paid.

10. Construction Specifications. All plans and specifications for construction of the Interconnects shall meet American Waterworks Association criteria, and shall meet or exceed industry standards for pressure, infiltration, exfiltration, line and grade, and all other standard engineering tests. Upon completion of construction, each party shall submit to the other a copy of the following: signed certificates of completion submitted to the appropriate regulatory agencies; bacteriological results with a sketch showing locations of all sample points; pressure test results; and one set of ammonia mylars of the as-built plans prepared and certified to by the engineers of record.

11. Water Quality Assurance.

a. The Utility agrees to provide to Reserve through the Water Interconnect potable water of a quality which meets federal, state and local water quality standards as may be set forth from time to time. The parties recognize that a variety of factors may affect the quality of the water provided by the Utility System, some of which are outside of the control of the Utility. Therefore, the Utility shall not be liable to The Reserve for any temporary failure to meet water quality standards, or temporary discontinuation of service, unless caused by the intentional actions or negligence of the Utility.

b. Both parties agree to install, institute and undertake those quality assurance facilities or programs it deems necessary in order to ensure that no contamination of the systems of either party shall occur from the other system. In the event of such contamination, each party shall immediately inform the other and the parties shall work together to mitigate any impact on the Utility System, the Reserve System, or the water provided to their respective customers.

12. Quality of Wastewater.

a. No substance other than domestic wastewater, including but not limited to hazardous, flammable, toxic and/or industrial constituents, regardless of the concentrations of said constituents, will be placed into the Reserve System and delivered to the Utility System by The Reserve. Non-domestic wastes from commercial establishments may be introduced into the Utility System only upon prior written approval from Utility based on Utility's determination that such non-domestic waste will not harm the Utility System. Should any non-domestic wastes, grease or oils, including but not limited to, floor wax, paint, chlorides, or salt water be delivered to Utility, The Reserve will be responsible for payment of the cost and expense required in correcting or repairing any resulting damage to the Utility System or property of third parties. Utility shall have the right to sample The Reserve's sewage to verify compliance with this paragraph.

b. In the event Utility determines that property served or to be served by the Reserve System poses a threat of introducing chlorides, salt water, or similar constituents into the Reserve System at levels determined by the Utility, in accordance with current industry standards, to be harmful to the Utility System, including but not limited to, the system's ability

to provide effluent meeting reuse standards, and its acceptability as an irrigation supply source for vegetation, Utility has the right to decline or discontinue service, or charge a higher rate due to increased treatment costs if applicable, to such property or customer and to require such pretreatment or other measures as are necessary to protect the integrity of Utility System. In the event of such declination or discontinuance of service, The Reserve shall have the right to provide or obtain treatment of the effluent from such property through its own facilities or from a third party.

13. Peak Flows; Usage and Purchased Capacities.

a. The Utility agrees to provide potable water flows to The Reserve at a flow rate not exceeding 800 gallons per minute at any time.

b. The Utility agrees to receive sanitary sewer flows from The Reserve at a flow rate not exceeding 350 gallons per minute. If at any time sanitary sewer flow from The Reserve exceeds 350 gallons per minute, The Reserve shall, at its expense, plan and construct either (1) a larger surge tank at The Reserve in order to reduce sanitary sewer flows to a rate that is at or below 350 gallons per minute, or (2) an additional eight inch (8") sanitary sewer line at the Point of Sewer Interconnect in order to accommodate sanitary sewer flows in excess of 350 gallons per minute. The sanitary sewer flows from The Reserve shall not in any event exceed 700 gallons per minute, absent mutual agreement to the contrary.

c. Notwithstanding any other provision of this Agreement, if actual potable water or sanitary sewer service usage levels by The Reserve exceeds by a factor of 1.05 for period for three (3) consecutive months the usage level corresponding to the number of ERCs previously purchased for such service, The Reserve agrees to purchase, within thirty (30) days of receiving written notice from the Utility, a sufficient number of additional ERCs so that the total number of ERCs purchased corresponds with the actual utility service usage level through the Interconnect.

14. IQ Water. The option of The Reserve to acquire IQ water from the Utility as set forth in this section shall be effective, and maybe exercised, only if State and/or local regulatory agencies reviewing permits for development within the area served by The Reserve system condition the granting or the renewal of such permits upon irrigation via IQ water, ~~and only for that portion of the service defined as Phase III as outlined in Exhibit C~~.

a. The Reserve and the Utility hereby agree that for each gallon of sewer service that the Utility provides to The Reserve pursuant to this Agreement, The Reserve has the right of first refusal, but not the obligation, to obtain a gallon of treated IQ water from the Utility for irrigation purposes. After such time as The Reserve is securing not less than 250,000 gpd of sewer service from the Utility through the Sewer Interconnect, the Utility shall give notice to The Reserve that IQ water is available. The Reserve shall then notify the Utility within ninety (90) days if it wishes to accept such IQ water. If The Reserve declines

to accept such IQ water, or elects temporarily not to accept delivery while paying for the IQ water to preserve its rights thereto, the Utility shall be free to dispose of same elsewhere, but only in such amounts as indicated in the Utility's original notice. Thereafter, as additional IQ water becomes available in increments of 25,000 gpd, the Utility shall provide a similar right of first refusal to The Reserve for each such increment.

b. The Utility shall provide IQ water to The Reserve at a rate equal to $0.40 per 1000 gallons of IQ water actually received, which rate shall be subject to increase from time to time limited to the percentage increase in bulk sanitary sewer gallonage (commodity) charges of the Utility. Charges for IQ water service under this Agreement shall not be subject to any take-or-pay obligation, but shall be levied solely for IQ water actually received by The Reserve.

c. If The Reserve determines to accept IQ water, it shall be responsible for constructing those facilities necessary to transport the IQ water from the Utility System to The Reserve. Such facilities shall include, but not be limited to, adequate storage facilities, pumping facilities, and transmission mains from the point of delivery of IQ water which the parties agree shall be the intersection of St. Lucie West Boulevard and N.W. Peacock Avenue.

d. The Utility agrees to deliver only properly treated IQ water to The Reserve which shall be defined as wastewater discharged from Utility's sewer plant which meets or exceeds the standard established for reclaimed water reused in public access areas as set forth in Florida Administrative Code Rule 62-610 or its successor rule. If, in the future, the Disposal System no longer irrigates public access areas, or otherwise restricts its use of Utility's effluent in a manner that calls for a lower level of treatment than that provided by Utility at the time of this Agreement, then the standard for properly treated effluent required of Utility hereunder shall be reduced appropriately.

e. Notwithstanding any other provision of this Agreement, the right of first refusal of The Reserve to receive IQ water as provided in this Section 14 shall be limited to an amount of IQ water equal to the average weekly sanitary sewer flow transmitted by The Reserve to the Utility for treatment.

15. Binding Effect of Agreement. This Agreement shall be binding upon and shall inure to the benefit of The Reserve, Utility, and their respective assigns and successors by merger, consolidation, conveyance or otherwise.

16. Notice. Until further written notice by either party to the other, all notices provided for herein shall be in writing and transmitted by messenger, by certified mail or by telegram, and if to Reserve, shall be mailed or delivered to The Reserve at:

The Reserve Community Development District
201 N. University Drive, Suite 802
Coral Springs, Florida 33071
Attention: District Manager

If to Utility, such notice shall be addressed to Utility at:

St. Lucie West Services District
201 N. University Drive, Suite 802
Coral Springs, Florida 33071
Attention: District Manager

with a copy to:

St. Lucie West Services District
450 S.W. Utility Drive
Port St. Lucie, Florida 34986
Attention: George A. Morgan, Sr., Utilities Director

Notice shall be considered effective upon receipt or, if refused, as of the date offered for receipt.

17. Laws of Florida. This Agreement shall be governed by the laws of the State of Florida and it shall be effective immediately upon execution by both parties hereto.

18. Costs and Attorney's Fee. In the event the Utility or The Reserve is required to enforce this Agreement by instituting suit or otherwise, then the prevailing party shall be entitled to recover from the other party all costs incurred, including reasonable attorney's fees.

19. Force Majeure. In the event that the performance of this Agreement by either party to this Agreement is prevented or interrupted in consequence of any cause beyond the control of either party, including but not limited to Act of God or of the public enemy, war, national emergency, allocation or of other governmental restrictions upon the use or availability of labor or materials, rationing, civil insurrection, riot, racial or civil rights disorder or demonstration, strike, embargo, flood, tidal wave, fire, explosion, bomb detonation, nuclear fallout, windstorm, hurricane, earthquake, or other casualty or disaster or catastrophe, governmental rules or acts or orders or restrictions or regulations or requirements, acts or action of any government or public or governmental authority or commission or board or agency or agent or official or officer, the enactment of any statute or ordinance or resolution or regulation or rule or ruling or order, order or decree or judgment or restraining order or injunction of any court, said party shall not be liable for such non-performance.

20. Indemnification. Each party agrees to indemnify and hold the other harmless from and against any and all liabilities, claims, damages, costs and expenses (including reasonable attorney's

fees) to which it may become subject by reason of or arising out of performance under this Agreement.

21. Survival of Covenants. The rights, privileges, obligations and covenants of The Reserve and Utility shall survive the completion of the Interconnect and commencement of service.

22. Superseded Agreements. This Agreement supersedes all previous agreements or representations, either verbal or written, heretofore in effect between the Reserve and Utility, made with respect to the matters herein contained, and when duly executed, constitutes the agreement between Reserve and Utility. No additions, alterations or variations of the terms of this Agreement shall be valid, nor can provisions of this Agreement be waived by either party, unless such additions, alterations, variations or waivers are expressed in writing and duly signed.

23. Further Assurances. Whenever approvals of any nature are required by either party to this Agreement, it is agreed that same shall not be unreasonably withheld or delayed. Failure to insist upon strict compliance of any of the terms, covenants, or conditions herein shall not be deemed a waiver of such terms, covenants, or conditions herein shall not be deemed a waiver or relinquishment of any right or power hereunder at any one time or times be deemed a waiver or relinquishment of such right or power at any other time or times.

24. Integration. It is agreed by and between the parties hereto that all words, terms and conditions contained herein are to be read in concert, each with the other, and that a provision contained under one heading may be considered to be equally applicable under another in the interpretation of this Agreement.

25. Default. In the event of a breach or a default by either party to this Agreement, the other party shall have all rights to enforce the terms and conditions of this Agreement which are available at law or in equity, including but not limited to, specific performance, as a remedy for such breach or default.

IN WITNESS WHEREOF, The Reserve and Utility have executed or have caused this Agreement, with the named Exhibits attached, to be duly executed in several counterparts, each of which counterpart shall be considered an original executed copy of this Agreement.

THE RESERVE COMMUNITY DEVELOPMENT DISTRICT

By:_____
John Casapo
Chairman

ST. LUCIE WEST SERVICES DISTRICT

By:_____
B. Joseph Teneriello
Chairman

Attest:_____

Attest:_____

STATE OF FLORIDA)
COUNTY OF ST. LUCIE)

The foregoing instrument was acknowledged before me this 5th day of November, 2003, by John Csapo, who is personally known to me or who has produced DL# _____ _____ as identification and who did (did not) take an oath.

My Commission Expires:

Eileen Fahey
Commission # CC 951681
Expires June 29, 2004
Bonded Thru
Atlantic Bonding Co., Inc.

Print Name: Eileen J Fahey
Notary Public
State of Florida at Large

STATE OF FLORIDA)
COUNTY OF ST. LUCIE)

The foregoing instrument was acknowledged before me this _____ day of _____, 2003, by B. Joseph Teneriello, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

My Commission Expires:

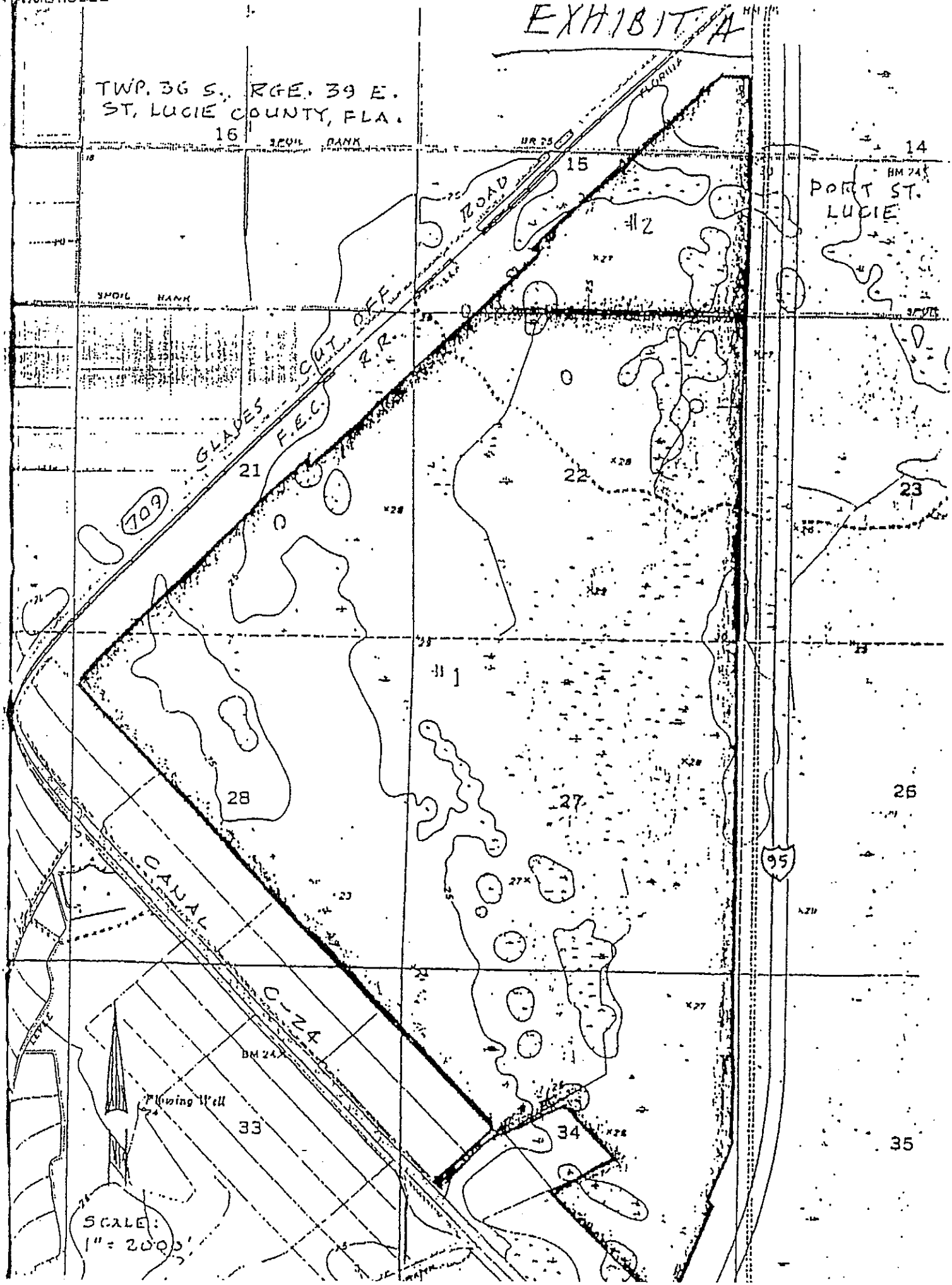
CRAIG WRATHELL
Commission # DD0193223
Expires 3/13/2007
Bonded through
(800-432-4254) Florida Notary Assn., Inc.

Craig Wrathell
Print Name:
Notary Public
State of Florida at Large

EXHIBIT A

[Map of Reserve System service area]

EXHIBIT A


TWP. 36 S., RGE. 39 E.
ST. LUCIE COUNTY, FLA.
16
SPOIL BANK
15
14
ROAD
PORT ST. LUCIE
BM 24
12
SPOIL BANK
GLADES CUT OFF
F.E.C. R.R.
709
21
22
23
11
28
27
26
95
CANAL
C-24
BM 24
Flowing Well
33
34
35
SCALE:
1" = 2000'

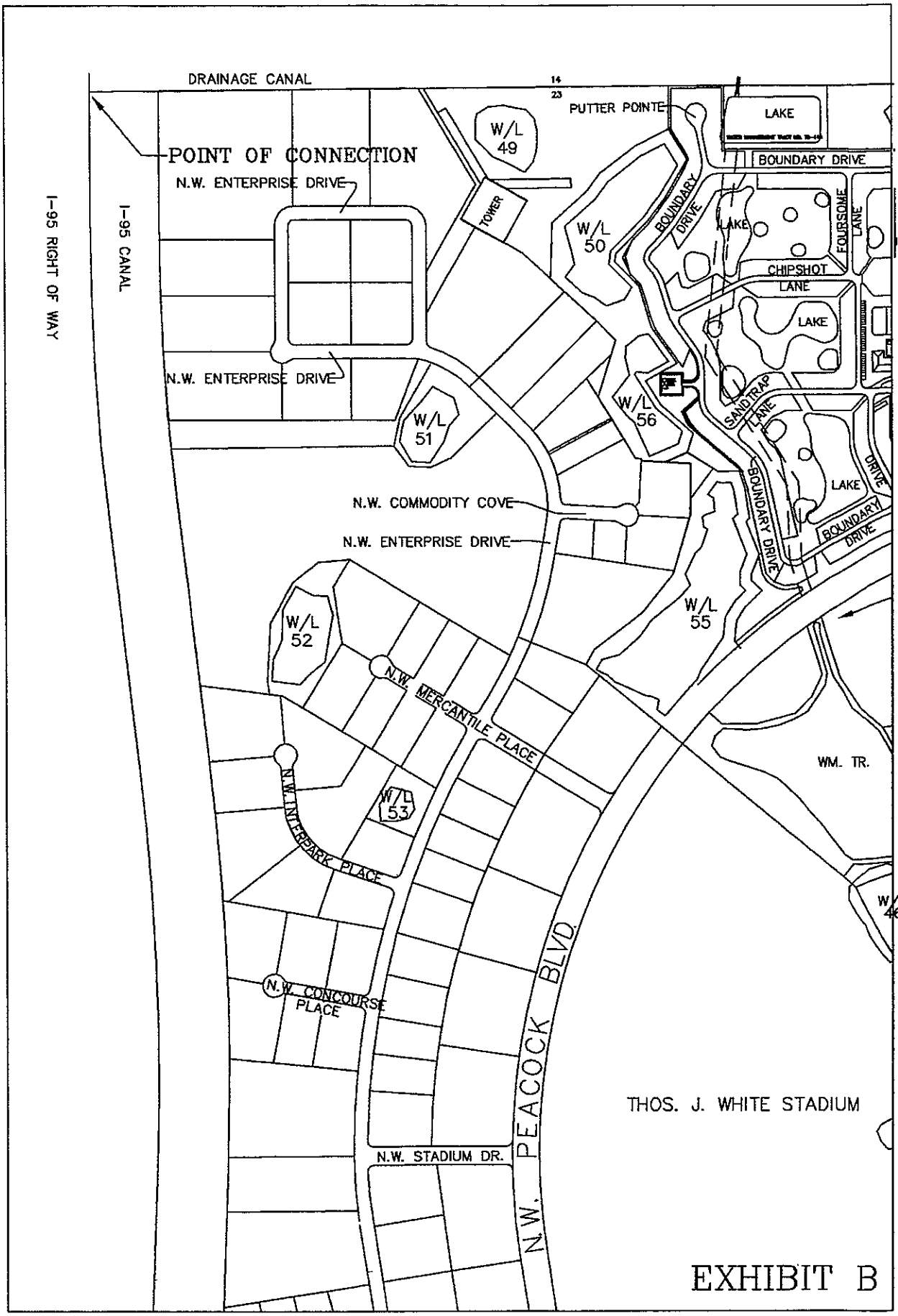

DRAINAGE CANAL
POINT OF CONNECTION
N.W. ENTERPRISE DRIVE
I-95 CANAL
I-95 RIGHT OF WAY
PUTTER POINTE
LAKE
BOUNDARY DRIVE
W/L 49
TOWER
W/L 50
BOUNDARY DRIVE
LAKE
FOURSOME LANE
CHIPSHOT LANE
LAKE
SANDTRAP LANE
W/L 56
W/L 51
N.W. ENTERPRISE DRIVE
N.W. COMMODITY COVE
N.W. ENTERPRISE DRIVE
BOUNDARY DRIVE
LAKE
BOUNDARY DRIVE
DRIVE
W/L 55
W/L 52
N.W. MERCANTILE PLACE
WM. TR.
N.W. INTERPARK PLACE
W/L 53
W/L 46
N.W. CONCOURSE PLACE
N.W. PEACOCK BLVD
THOS. J. WHITE STADIUM
N.W. STADIUM DR.
EXHIBIT B

EXHIBIT C

Water and Sewer Take Down Schedule

	Fiscal Year Beginning October 1,	Water				Sewer			
		ERC		Cum ERC	Take or Pay (g/mo)	ERC		Cum ERC	Take or Pay (g/mo)
Phase 1	2003	200		400	1,216,667	100		100	486,667
	2004	100		500	1,825,000	200		300	1,460,000
	2005	100		600	2,433,333	200		500	2,433,333
	2006	200		800	3,650,000	200		700	3,406,667
	2007	200		1,000	4,866,667	200		900	4,380,000
	2008	200		1,200	6,083,333	200		1,100	5,353,333
Phase 2	2009	200		1,400	7,300,000	200		1,300	6,326,667
	2010	200		1,600	8,516,667	200		1,500	7,300,000
	2011	200		1,800	9,733,333	200		1,700	8,273,333
	2012	200		2,000	10,950,000	200		1,900	9,246,667
	2013	200	*	2,200	10,950,000	200	*	2,100	9,733,333
Optional	2014	200	*	2,400	10,950,000	200	*	2,300	9,733,333
	2015	200	*	2,600	10,950,000	200	*	2,500	9,733,333
	2016	200	*	2,800	10,950,000	200	*	2,700	9,733,333
	2017	200	*	3,000	10,950,000	200	*	2,900	9,733,333
	2018	0	*	3,000	10,950,000	100	*	3,000	9,733,333
	2019	0		3,000	10,950,000	0		3,000	9,733,333
	2020	0		3,000	10,950,000	0		3,000	9,733,333
	2021	0		3,000	10,950,000	0		3,000	9,733,333
	2022	0		3,000	10,950,000	0		3,000	9,733,333
	2023	0		3,000	10,950,000	0		3,000	9,733,333

* Initial contract is for 2,000 ERC, Reserve has option to take an additional 1,000 ERC

Take or Pay flow is for minimum amount of flow to be billed in a month per then current rates. Take or Pay is only on initial 2,000 ERC's.

Take or Pay based on 80% of committed capacity

Return to: (enclose self-addressed stamp envelope)

Name:
Michael T. Kolodziejczyk, PLS

Address: ARCADIS LNW
590 NW Peacock Boulevard, Suite 9
Port St. Lucie, Florida 34986

This Instrument Prepared by:

Michael T. Kolodziejczyk, PLS

Address: ARCADIS LNW
590 NW Peacock Boulevard, Suite 9
Port St. Lucie, Florida 34986

UTILITY EASEMENT

SPACE ABOVE THIS LINE FOR PROCESSING DATA SPACE ABOVE THIS LINE FOR RECORDING DATE

THIS UTILITY EASEMENT, executed this 12 day of November, 2003, by St. Lucie West Industrial Association whose post office address is 1850 S.W. Fountainview Boulevard, Port St. Lucie, Florida 34986, first party, to St. Lucie West Services District whose post office address is 450 S.W. Utility Drive, Port St. Lucie, Florida 34986, second party:

(Wherever used herein the terms "first party" and second party" shall include singular and plural, heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth: That the said first party, for and in consideration of the sum of $10.00 and other good and valuable consideration, in hand paid by the second party, the receipt whereof is hereby acknowledged, together with all other covenants made by the second party and contained herein, has granted, bargained and sold unto the said second party forever, a utility easement over the following described lot, piece or parcel of land, situate, lying and being in the County of St. Lucie, State of Florida, to-wit:

See Exhibit "A"

for the purposes of ingress, egress, construction, repair, installation and maintenance of water and sewer facilities, and related appurtenances, and not for video communications; it is understood that this easement is given upon the express understanding and condition that the described property may be used by the first party, its successors, assigns, invitees and licenses for ingress and egress, and that the second party, through its use of the described property shall not interfere with this ingress and egress right, and it shall be the duty of the second party to maintain and repair said facilities and to repair any damage to the described property caused by the second party as may be required from time to time hereafter.

Subject to the limitations set forth in Section 768.28, Florida Statutes, the Second Party will indemnify and save the First Party harmless from any damage, injury, loss, claim, demand, or cost proximately caused by the sole fault or negligence of the Second Party and arising from the Second Party's use of the easement granted herein.

IN WITNESS WHEREOF, the said first party has caused this instrument to be executed by its duly authorized agents, and its corporate seal affixed hereto.

Signed, sealed and delivered in presence of:

Jean E. Sakowski
Witness Signature

Jean E. Sakowski
Printed Name

George A. Morgan
Witness Signature

George A. Morgan
Printed Name

(name of first party)

By: _____ V.P.

Printed Name: David C. Page

Title: V.P.

STATE OF FLORIDA
COUNTY OF ST. LUCIE

The foregoing instrument was acknowledged before me this 7th day of November 2003 by David C. Page, as Vice President, a Florida corporation, on behalf of the corporation. He/She is

✓ personally known to me, or

_____ who has produced _____ as identification and who

____ did/____ did not take an oath.

[Notary Seal or Stamp]

JEAN E. SAKOWSKI
MY COMMISSION # CC 985719
EXPIRES: March 7, 2005
Bonded Thru Notary Public Underwriters

Jean E. Sakowski
Notary Public-State of Florida

Print Name: Jean E. Sakowski

My Commission Expires: Mar. 7, 2005

ACCEPTANCE OF EASEMENT

The above easement is hereby accepted this _____ day of _____, 2003.

Attest:

by _____

Print name Craig Wrathell

Title District Management

ST. LUCIE WEST SERVICES DISTRICT

by _____

Print name B. Joseph Tenerello

Title CHAIRMAN

STATE OF FLORIDA
COUNTY OF ST. LUCIE

The foregoing instrument was acknowledged before me this ____ day of _____ 2003 by _____ as _____ of ST. LUCIE WEST SERVICES DISTRICT, a community development district, on behalf of the District. He is

_____ personally known to me, or
_____ who has produced _____ as identification and who
_____ did/ _____ did not take an oath.

_____
Notary Public - State of Florida

[Notary Seal or Stamp]

CRAIG WRATHELL
Commission # DD0193223
Expires 3/13/2007
Bonded through
(800-432-4254) Florida Notary Assn., Inc.

Print Name: Craig Wrathell

My Commission Expires:

Prepared by ARCADIS LNW
590 NW Peacock Boulevard, Suite 9
Port St. Lucie, Florida 34986
772-878-1700

LNW
Lawson, Noble & Webb, Inc.
ENGINEERS · PLANNERS · SURVEYORS
590 NW Peacock Blvd, Suite 9, Port St. Lucie, FL 34986
(772) 878-1700 · fax: (772) 878-1802 · Web: www.lnw-inc.com
West Palm Beach · Port St. Lucie · Orlando · Vero Beach
EB 3432 / LB 6674

DESCRIPTION TO ACCOMPANY SKETCH

DESCRIPTION: UTILITY EASEMENTS

BEING TWO (2) EASEMENTS 20.00 FEET WIDE LYING OVER, UNDER AND ACROSS A PORTION OF LOTS 6, 7, 8 AND 9 AS SHOWN ON THE PLAT OF ST. LUCIE WEST PLAT NO. 133, ST. LUCIE WEST INDUSTRIAL PARK, RECORDED IN PLAT BOOK 39, PAGES 40, 40A AND 40B, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEING ALL OF THE PRIVATE DRAINAGE EASEMENT LYING OVER THE SOUTH 10.00 FEET OF SAID LOT 6 AND THE NORTH 10.00 FEET OF SAID LOT 7.

TOGETHER WITH THE FOLLOWING DESCRIBED EASEMENT:

BEING ALL OF THE PRIVATE DRAINAGE EASEMENT LYING OVER THE SOUTH 10.00 FEET OF SAID LOT 8 AND THE NORTH 10.00 FEET OF SAID LOT 9.

NOTE: THIS IS NOT A SKETCH OF SURVEY, but only a graphic depiction of the description shown hereon. There has been no field work, viewing of the subject property or monuments set in connection with the preparation of the information shown hereon.

NOTE: Lands shown hereon were not abstracted for right-of-way and/or easements of record.

11-4-03

GARY R. BURFORD, PROFESSIONAL SURVEYOR AND MAPPER, FLORIDA REGISTRATION NO. 4981 — DATE OF SIGNATURE

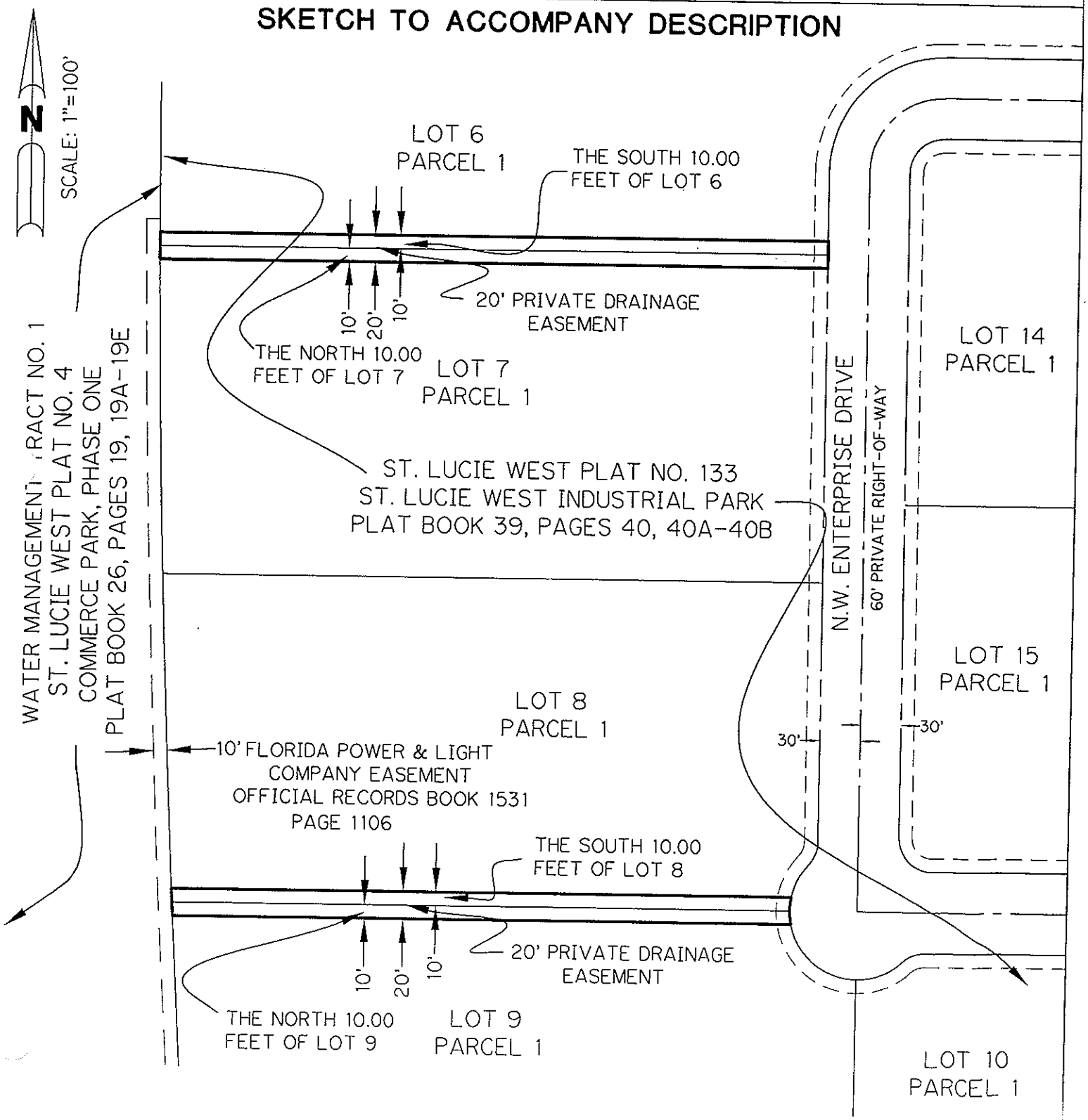
SEE SHEET 2 OF 2 FOR SKETCH

P:\400-499\b481\CAD\B481SD-UE.DWG 11/04/2003 09:49:12 AM EST

JOB No. B481	DRAWN: GRB	CHECKED: MTK	DESIGN:	DATE: 10-17-03

Lawson, Noble & Webb, Inc.
ENGINEERS · PLANNERS · SURVEYORS
590 NW Peacock Blvd, Suite 9, Port St. Lucie, FL 34986
(772) 878-1700 · fax: (772) 878-1802 · Web: www.lnw-inc.com
West Palm Beach · Port St. Lucie · Orlando · Vero Beach
EB 3432 / LB 6674

SKETCH TO ACCOMPANY DESCRIPTION



SEE SHEET 1 OF 2 FOR DESCRIPTION P:\400-499\6481\CAD\B481SD-UE.DWG 11/04/2003 09:49:12 AM EST SHEET 2 OF 2

JOB No. B481	DRAWN: GRB	CHECKED: MTK	DESIGN:	DATE: 10-17-03

This instrument prepared by (and return to)

Daniel B. Harrell
Gonano & Harrell
1600 S. Federal Highway, Suite 200
Fort Pierce, Florida 34950
(772) 464-1032 Ext. 1010 (Voice)
(772) 464-0282 (Facsimile)

JOSEPH E. SMITH, CLERK OF THE CIRCUIT COURT
SAINT LUCIE COUNTY
FILE # 3832479 05/10/2013 at 01:24 PM
OR BOOK 3516 PAGE 945 - 949 Doc Type: AGR
RECORDING: $44.00

FIRST AMENDMENT TO AMENDED AND RESTATED INTERCONNECT AGREEMENT

THIS FIRST AMENDMENT ("Amendment") is made and entered into as of the 1st day of May, 2013, by and between the ST. LUCIE WEST SERVICES DISTRICT, a Florida community development district created pursuant to Chapter 190, Florida Statutes ("Utility"), and THE RESERVE COMMUNITY DEVELOPMENT DISTRICT, a Florida community development district created pursuant to Chapter 190, Florida Statutes ("The Reserve"),to that certain Amended and Restated Interconnect Agreement dated November 12, 2003 ("Agreement").

WHEREAS, the parties have determined to revise the water and sewer service capacity to be sold by the Utility and purchased by The Reserve, and the monthly "take or pay" gallonage (commodity) charges to be paid to the Utility for the potable water and sanitary sewer service received by The Reserve

NOW, THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by each party, the Utility and The Reserve agree as follows:

A. Paragraphs c and e of Section 7 of the Agreement are amended to read as follows:

* * *

7. Compensation.

* * *

c. Connection Charges. In order to compensate the Utility for the Phase I and Phase II Water ERCs made available to The Reserve pursuant to this Agreement, The Reserve agrees to pay a water system capacity (connection) charge in the amount of $1,000 per ERC, or the approved connection charge in effect throughout the service area of the Utility System at the time of payment, subject to the limitation on increases as provided in Section 7.j. In order to compensate the Utility for the Phase I and Phase II Sewer ERCs made available to The Reserve pursuant to this Agreement, The Reserve agrees to pay a sewer system capacity (connection) charge in the amount of $900 per ERC, or the approved connection charge in effect throughout the service area of the Utility System at the time of payment, subject to the limitation on increases as provided in Section 7.j. In partial consideration for The Reserve entering into this exclusive, long

term service agreement, the Utility agrees to waive all line charges and Accrued Guaranteed Revenue Fees ("AGRF"). Therefore, the total connection charges for the Phase I and Phase II Water and Sewer ERCs are as follows:

	Phase I & II Water	Phase I & II Sewer
Total gpd	500,000	360,000
ERC factor	250	200
Total ERCs	2,000	1,800
Total ERCs	2,000	1,800
Charge per ERC	$ 1,000*	$ 900*
Total charges	$2,000,000**	$1,620,000**

* Or the connection charge in effect throughout the service area of the Utility System at the time of payment, subject to the limitation on increases as provided in Section 7.j.

** Assuming current connection charges of $1,000 per water ERC and $900 per sewer ERC.

* * *

e. Payment of Phase II Connection Charges. Payment of connection charges by The Reserve to the Utility for the Phase II Water and Sewer ERCs shall be made in accordance with a build-out schedule to be provided by The Reserve as set forth in Section 9.b of this Agreement, but in no event later than May 1, 2013, for Sewer and October 1, 2016, for Water.

* * *

B. The Water and Sewer Take Down Schedule that is attached as Exhibit "C" to the Agreement is amended and replaced by the revised Exhibit "C" attached to this Amendment.

C. Except as expressly modified by this Amendment, all terms and conditions of the Agreement shall remain in full force and effect. In the event of any conflict between other (unamended) provision of the Agreement and the provisions of this Amendment, the provisions of this Amendment shall prevail.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals as of the day and year first above written.

* * *

ST. LUCIE WEST SERVICES DISTRICT

Attest:

Print Name: C. B. ALTWEIN
Secretary/Assistant Secretary

By: _____
Harvey Cutler, Chairman
Board of Supervisors

[Seal]

STATE OF FLORIDA
COUNTY OF ST. LUCIE

The foregoing instrument was acknowledged before me this 2nd day of April, 2013, by C. B. Altwein and Harvey Cutler, as Secretary/Assistant Secretary and Chairman of the Board of Supervisors, respectively, of the ST. LUCIE WEST SERVICES DISTRICT. They:

- ☒ are personally known to me or
- ☐ have produced identification. Type of identification produced: _____

[Notary Seal]

MADELINE MALDONADO
MY COMMISSION # DD 917492
EXPIRES: September 15, 2013
Bonded Thru Notary Public Underwriters

Print Name: Madeline Maldonado
Notary Public—State of Florida
My commission expires: September 15 2013

THE RESERVE COMMUNITY DEVELOPMENT DISTRICT

Attest:

_____

Print Name: Richard Hans
Secretary/Assistant Secretary

By: _____
Paul Miret, Chairman
Board of Supervisors

[Seal]

STATE OF FLORIDA
COUNTY OF ST. LUCIE

The foregoing instrument was acknowledged before me this 7 day of May, 2013, by Richard Hans and Paul Miret, as Secretary/Assistant Secretary and Chairman of the Board of Supervisors, respectively, of THE RESERVE COMMUNITY DEVELOPMENT DISTRICT. They:

☑ are personally known to me or
☐ have produced identification. Type of identification produced: _____

[Notary Seal]

JONI D. HAYWORTH
Notary Public - State of Florida
My Comm. Expires Nov 24, 2016
Commission # EE 221987

Joni D. Hayworth
Print Name: JONI D. HAYWORTH
Notary Public—State of _____
My commission expires: _____

EXHIBIT C
Water and Sewer Take Down Schedule

	Fiscal Year Beginning October 1	Water				Sewer			
		ERC		Cum ERC	Take or Pay (g/mo)	ERC		Cum ERC	Take or Pay (g/mo)
Phase 1	2003	200		400	2,433,333	100		100	486,667
	2004	100		500	3,041,667	200		300	1,460,000
	2005	100		600	3,650,000	200		500	2,433,333
	2006	200		800	4,866,667	200		700	3,406,667
	2007	200		1,000	6,083,333	200		900	4,380,000
	2008	200		1,200	6,083,333	200		1,100	5,353,333
Phase 2	2009			1,200	6,083,333	-		1,100	5,353,333
	2010			1,200	6,083,333	-		1,100	5,353,333
	2011			1,200	6,083,333	-		1,100	5,353,333
	2012			1,200	6,083,333	-		1,100	5,353,333
	2013	-		1,200	6,083,333	700		1,800	7,300,000
	2014	200		1,400	6,083,333	-		1,800	7,300,000
	2015	200		1,600	6,083,333	-		1,800	7,300,000
	2016	400		2,000	7,300,000	-		1,800	7,300,000
Optional	2017	200	*	2,200	7,300,000	200	*	2,000	7,300,000
	2018	200	*	2,400	7,300,000	200	*	2,200	7,300,000
	2019	200	*	2,600	7,300,000	200	*	2,400	7,300,000
	2020	200	*	2,800	7,300,000	200	*	2,600	7,300,000
	2021	200	*	3,000	7,300,000	200	*	2,800	7,300,000
	2022	-	*	3,000	7,300,000	-	*	2,800	7,300,000
	2023	-	*	3,000	7,300,000	-	*	2,800	7,300,000

* Optional Capacity. The Reserve has the option to take an additional 1,000 ERCs of water and 1,000 ERCs of sewer capacity.

Take-or-Pay. Take-or-Pay is the minimum amount of flow to be billed each month at then current rates, based on 80 percent of the applicable Take-or-Pay capacity. The Take-or-Pay amount is calculated based upon (i) 1,000 ERCs of water through September 30, 2016, (ii) 1,200 ERCs of water effective October 1, 2016, and (iii) 1,500 ERCs of sewer effective May 1, 2013. The Take-or-Pay obligation will end on September 30, 2024, at which time all gallonage (commodity) charges for potable water and sanitary sewer service will be based on actual monthly usage.

Appendix B

SFWMD Water Use Permit No. 56-00614-W

FORM #0299
Rev. 5/83

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WATER USE PERMIT NO. RE-ISSUE 56-00614-W

(NON - ASSIGNABLE)

Date Issued: 14-SEP-2005 Expiration Date: September 14, 2025

Authorizing: THE CONTINUATION OF AN EXISTING USE OF GROUNDWATER FROM THE FLORIDAN AQUIFER SYSTEM FOR PUBLIC WATER SUPPLY USE WITH AN ANNUAL ALLOCATION OF 851.18 MILLION GALLONS.

Located In: St Lucie County, S23,24,25,26,35/T36S/R39E

Issued To: ST LUCIE WEST SERVICES DISTRICT
(ST LUCIE WEST SERVICES DISTRICT)
10300 NW 11TH MANOR
CORAL SPRINGS, FL 33071

This Permit is issued pursuant to Application No. 010426-9 , dated April 26, 2001, for the Use of Water as specified above and subject to the Special Conditions set forth below. Permittee agrees to hold and save the South Florida Water Management District and its successors harmless from any and all damages, claims or liabilities which may arise by reason of the construction, maintenance or use of activities authorized by this permit. Said application, including all plan and specifications attached thereto, is by reference made a part hereof.

Upon written notice to the permittee, this permit may be temporarily modified, or restricted under a Declaration of Water Shortage or a Declaration of Emergency due to Water Shortage in accordance with provisions of Chapter 373, Fla. Statutes, and applicable rules and regulations of the South Florida Water Management District.

This Permit may be permanently or temporarily revoked, in whole or in part, for the violation of the conditions of the permit or for the violation of any provision of the Water Resources Act and regulations thereunder.

This Permit does not convey to the permittee any property rights nor any privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation, or requirement affecting the rights of other bodies or agencies.

Limiting Conditions are as follows:
SEE PAGES 2 - 7 OF 7 (25 LIMITING CONDITIONS).

South Florida Water Management
District, by its Governing Board

On ORIGINAL SIGNED BY:
By ELIZABETH VEGUILLA
DEPUTY CLERK

LIMITING CONDITIONS

1 . This permit shall expire on September 14, 2025.

2 . Application for a permit modification may be made at any time.

3 . Water use classification:

Public water supply

4 . Source classification is:

Ground Water from:
Floridan Aquifer System

5 . Annual allocation shall not exceed 851 MG.

Maximum monthly allocation shall not exceed 80.8178 MG.

6 . Pursuant to Rule 40E-1.6105, F.A.C., Notification of Transfer of Interest in Real Property, within 30 days of any transfer of interest or control of the real property at which any permitted facility, system, consumptive use, or activity is located, the permittee must notify the District, in writing, of the transfer giving the name and address of the new owner or person in control and providing a copy of the instrument effectuating the transfer, as set forth in Rule 40E-1.6107, F.A.C.

Pursuant to Rule 40E-1.6107 (4), until transfer is approved by the District, the permittee shall be liable for compliance with the permit. The permittee transferring the permit shall remain liable for all actions that are required as well as all violations of the permit which occurred prior to the transfer of the permit.

Failure to comply with this or any other condition of this permit constitutes a violation and pursuant to Rule 40E-1.609, Suspension, Revocation and Modification of Permits, the District may suspend or revoke the permit.

This Permit is issued to:
St. Lucie West Services District
10300 NW 11th Manor
Coral Springs, FL. 33071

St. Lucie West Services District
10300 NW 11th Manor
Coral Springs, FL. 33071

7 . Withdrawal Facilities:

Ground Water - Existing:

1 - 16" X 1321' X 2000 GPM Well Cased To 908 Feet
1 - 18" X 1657' X 2000 GPM Well Cased To 885 Feet
1 - 18" X 1896' X 2000 GPM Well Cased To 865 Feet

8 . Permittee shall mitigate interference with existing legal uses that was caused in whole or in part by the permittee's withdrawals, consistent with the approved mitigation plan. As necessary to offset the

interference, mitigation will include pumpage reduction, replacement of the impacted individual's equipment, relocation of wells, change in withdrawal source, or other means.

Interference to an existing legal use is defined as an impact that occurs under hydrologic conditions equal to or less severe than a 1 in 10 year drought event that results in the:

(1) Inability to withdraw water consistent with provisions of the permit, such as when remedial structural or operational actions not materially authorized by existing permits must be taken to address the interference; or

(2) Change in the quality of water pursuant to primary State Drinking Water Standards to the extent that the water can no longer be used for its authorized purpose, or such change is imminent.

9 . Permittee shall mitigate harm to existing off-site land uses caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm as determined through reference to the conditions for permit issuance, includes:

(1) Significant reduction in water levels on the property to the extent that the designed function of the water body and related surface water management improvements are damaged, not including aesthetic values. The designed function of a water body is identified in the original permit or other governmental authorization issued for the construction of the water body. In cases where a permit was not required, the designed function shall be determined based on the purpose for the original construction of the water body (e.g. fill for construction, mining, drainage canal, etc.)

(2) Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or

(3) Land collapse or subsidence caused by reduction in water levels associated with consumptive use.

10. Permittee shall mitigate harm to the natural resources caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm, as determined through reference to the conditions for permit issuance includes:

(1) Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface,

(2) Reduction in water levels that harm the hydroperiod of wetlands,

(3) Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,

(4) Harmful movement of contaminants in violation of state water

quality standards, or

(5) Harm to the natural system including damage to habitat for rare or endangered species.

11. If any condition of the permit is violated, the permit shall be subject to review and possible modification, enforcement action, or revocation.

12. Authorized representatives of the District shall be permitted to enter, inspect, and observe the permitted system to determine compliance with special conditions.

13. The Permittee is advised that this permit does not relieve any person from the requirement to obtain all necessary federal, state, local and special district authorizations.

14. The permit does not convey any property right to the Permittee, nor any rights and privileges other than those specified in the Permit and Chapter 40E-2, Florida Administrative Code.

15. Permittee shall submit all data as required by the implementation schedule for each of the limiting conditions to: S.F.W.M.D., Supervising Hydrogeologist - Post-Permit Compliance, Water Use Regulation Dept. (4320), P.O. Box 24680, West Palm Beach, FL 33416-4680.

16. In the event of a declared water shortage, water withdrawal reductions will be ordered by the District in accordance with the Water Shortage Plan, Chapter 40E-21, F.A.C. The Permittee is advised that during a water shortage, pumpage reports shall be submitted as required by Chapter 40E-21, F.A.C.

17. Prior to the use of any proposed water withdrawal facility authorized under this permit, unless otherwise specified, the Permittee shall equip each facility with a District-approved operating water use accounting system and submit a report of calibration to the District, pursuant to Section 4.1, Basis of Review for Water Use Permit Applications.

    In addition, the Permittee shall submit a report of recalibration for the water use accounting system for each water withdrawal facility (existing and proposed) authorized under this permit every five years from each previous calibration, continuing at five-year increments.

18. Monthly withdrawals for each withdrawal facility shall be submitted to the District quarterly. The water accounting method and means of calibration shall be stated on each report. Results of monthly chloride concentration analyses for each withdrawal facility shall be submitted to the District quarterly.

    Results of monthly chloride concentration analyses for each withdrawal facility shall be submitted to the District quarterly.

19. The Permittee shall notify the District within 30 days of any change in service area boundary. If the Permittee will not serve a new demand within the service area for which the annual allocation was calculated, the annual allocation may then be subject to modification and reduction.

20. Permittee shall determine unaccounted-for distribution system losses. Losses shall be determined for the entire distribution system on a

monthly basis. Permittee shall define the manner in which unaccounted-for losses are calculated. Data collection shall begin within six months of Permit issuance. Loss reporting shall be submitted to the District on a yearly basis from the date of Permit issuance.

21. Permittee shall maintain an accurate flow meter at the intake of the water treatment plant for the purpose of measuring daily inflow of water.

22. Prior to any application to renew or modify this permit, the Permittee shall evaluate long term water supply alternatives and submit a long term water supply plan to the District. Within one year of permit issuance, the Permittee shall submit to the District an outline of the proposed plan. The assessment should include consideration of saline intrusion, wellfield protection, plans for compliance with applicable wellfield protection ordinances, expected frequencies and plans to cope with water shortages or well field failures, and conservation measures to reduce overall stresses on the aquifer.

23. In Martin and St. Lucie counties, the maximum installed capacity on a Floridan aquifer well shall be that capacity at which the well is capable of flowing in a free flowing mode relative to existing land elevation at the well site. Pumping equipment shall not be installed on any free flowing Floridan aquifer well as a means to regain or increase capacity. (Prior to the installation of the pump, Permittee shall provide a flow verification determination to the District for review and approval. Staff approval will be granted if the natural flow rate of the well is greater than that of the proposed pump.)

24. In Martin and St. Lucie counties, the maximum installed capacity on a Floridan aquifer well shall be that capacity at which the well is capable of flowing in a free flowing mode relative to existing land elevation at the well site. Pumping equipment shall not be installed on any free flowing Floridan aquifer well as a means to regain or increase capacity. (Prior to the installation of the pump, Permittee shall provide a flow verification determination to the District for review and approval. Staff approval will be granted if the natural flow rate of the well is greater than that of the proposed pump.)

25. Pursuant to the provisions of Chapter 40E-1.5095, within two weeks of permit issuance, the Permittee shall publish notice of agency decision in newspapers of general circulation in the area affected by such decisions, as defined by the area within the one-foot drawdown shown in Exhibit 7E of the staff report prepared in support of the recommended agency action.

Pursuant to the provisions of Chapter 40E-1.5095, within two weeks of permit issuance, the Permittee shall publish notice of agency decision in newspapers of general circulation in the area affected by such decisions, as defined by the area within the one-foot drawdown shown in Exhibit 7E of the staff report prepared in support of the recommended agency action.