BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Application for increase in water and Wastewater rates in Charlotte, Highlands, Lake, Lee, Marion, Orange, Pasco, Pinellas, Polk and Seminole Counties by Utilities, Inc. Of Florida.	)	Docket No. 20200139-WS

DIRECT TESTIMONY

OF

FRANK SEIDMAN

on behalf of

Utilities, Inc. of Florida

Q. Please state your name, profession, and address.

A. My name is Frank Seidman, dba as Management and Regulatory Consultants, consultants in the utility regulatory field. My address is 36 Yacht Club Dr., North Palm Beach, FL 33408.

Q. State briefly your educational background and experience.

A. I hold the degree of Bachelor of Science in Electrical Engineering from the University of Miami. I have also completed several graduate level courses in economics at Florida State University, including public utility economics. I am a Professional Engineer, retired status, in the state of Florida. I have over 50 years of experience in utility regulation, management, and consulting. This experience includes nine years as a staff member of the Florida Public Service Commission (FPSC), two years as a planning engineer for a Florida telephone company, four years as Manager of Rates and Research for a water and sewer holding company with operations in six states, and three years as Director of Technical Affairs for a national association of industrial users of electricity. I have been providing rate and regulatory consulting services in Florida for over 30 years. Specifically, with regard to the water and wastewater industry, I have participated in the preparation and presentation of numerous rate cases, most of which were considered by the Florida Public Service Commission. I have also prepared cases before the Sarasota County Commission. Many of the cases before the FPSC were made final through the Proposed Agency Action procedures; others went to public hearing in which I presented direct and/or rebuttal testimony. I have prepared or

participated in the preparation of all phases of water and wastewater financial, rate and engineering sections of the Minimum Filing Requirements (MFRs), including used and useful. I have also participated in most of the water and wastewater rulemaking procedures before the FPSC. I have also prepared several original cost studies accepted by this Commission in setting rates.

Q. On whose behalf are you presenting this testimony?

A. I am presenting this testimony and appearing on behalf of the applicant, Utilities, Inc. of Florida (UIF).

Q. For what purpose were you retained by the applicant?

A. I was retained to prepare the used and useful analyses for each of the systems through which UIF provides service and the required schedules in the MFRs pertaining to used and useful. These are identified in the MFRs as the “F” schedules.

Q. What is the purpose of your direct testimony?

A. The purpose of my direct testimony is to present the results of my Used and Useful analyses of the individual systems that make up Utilities, Inc. of Florida and to sponsor the Engineering Schedule Section of Volume I of the Minimum Filing Requirements, also known as the “F” Schedules. .

Q. Are you sponsoring any exhibits?

A. Yes. I am sponsoring Exhibit (FS-1)____ which is a summary of my education and my experience as it pertains to water and wastewater regulation. I am also sponsoring Exhibit (FS-2)____ which is a summary of the Used and Useful, Excess Unaccounted for Water (UAW) and Excess I&I percentages of all the individual systems included in this filing. As previously stated, I am also sponsoring the Engineering Section of Volume I which is Exhibit (FS-3)_____.

Q. Would you please summarize the results of your used and useful analyses?

A. Yes. As previously stated, the results of the used and useful analyses are contained in the "F" schedules section of each of the MFRs for the various systems. For convenience, I have prepared Exhibit (FS-2)_____, which summarizes the results for all of the systems.

Q. Does that conclude your direct testimony?

A. Yes, it does.

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EXHIBIT (FS-1)_____

OF

FRANK SEIDMAN

on behalf of

Utilities, Inc. of Florida

CURRICULUM VITAE

FRANK SEIDMAN, P.E.

Over 50 years of experience in utility regulation, management and consulting, including 9 years in regulation and 6 years practical experience in utility operations and management.

President of Management & Regulatory Consultants, Inc, now known as Management & Regulatory Consultants. Services provided regarding water and wastewater utilities include: preparation of rate cases and service availability charge applications; analysis and design of rates; analysis of expenses and plant; preparation of billing analyses; coordination of rate case presentations; representation before regulatory bodies and presentation of expert testimony; participation in the design of regulatory statutes and rules; assistance in the preparation of annual reports; assistance in setting up systems of accounts; preparation of original cost and market valuation studies and economic analyses.

As a member of the engineering staff of the Florida Public Service Commission at several levels, played an active role in rate cases, rate design, planning and service evaluation for gas, electric, telephone, water and wastewater utilities.

As Director of Technical Affairs for the Electricity Consumer's Resource Council, a national association of large industrial electricity users, developed and presented positions and testimony on electric rate design, cost of service, and PURPA related issues.

As Manager of Rates and Research for GAC Utilities, Inc., responsible for managing the revenue requirements program and preparing rate applications for a water and sewer utility holding company with operations in six states.

Has presented testimony before jurisdictions in Arkansas, California, Delaware, Florida, Michigan and Texas, as well as the U.S. Department of Energy, and the Federal Energy Regulatory Commission. Appeared as a speaker and/or instructor before many trade and professional groups throughout the United States.

BSEE from the University of Miami with substantial graduate level work in economics, including public utility economics, at the Florida State University. A registered Professional

Engineer, retired status, in the State of Florida and past member of the Florida Engineering Society, the National Society of Professional Engineers, the Institute of Electrical and Electronic Engineers, the American Water Works Association and the Florida Water Works Association.

Rev:04/30/2020

SUMMARY OF PROFESSIONAL EXPERTISE
IN WATER and WASTEWATER REGULATION IN FLORIDA

FRANK SEIDMAN

I. Participation In Specific Water And Sewer Cases

Florida
Case: Florida 2nd Judicial District Court; re Contributions In Aid of Construction, 1970
Sponsor: Court Subpoena
Purpose: Testify re Relationship of CIAC and Rates.

Florida
Case: Docket No. I-71184-WS; GAC Utilities, Inc., of Florida, Cape Coral Division, Investigation of Main Extension Fees, 1971
Sponsor: GAC Utilities, Inc.
Purpose: Prepare Main Extension Fee Study and testify re Main Extension Fees.

Florida
Case: Docket No. 71581-WS; GAC Utilities Inc., Poinciana Division; Application for Certificate of Convenience and Necessity, 1971
Sponsor: GAC Utilities, Inc.
Purpose: Testify re Application.

Florida
Case: Sarasota County; Florida Cities Water Co., Rate Case, 1972
Sponsor: Florida Cities Water Co.
Purpose: Prepare Rate Case and testify re Application.

Florida
Case: Docket No. 800594-WS; Palm Coast Utility Corp., Rate Case and Certificate Filing, 1980
Sponsor: Palm Coast Utility Corp.
Purpose: Prepare Original Cost Study and Minimum Filing Requirements.

Florida
Case: Docket No. 810485-WS; Palm Coast Utility Corp., Rate Case, 1982
Sponsor: Palm Coast Utility Corp.
Purpose: Prepare Minimum Filing Requirements.

Florida
Case: Charlotte County; Fiveland Investments, Inc. Rate Case, 1982
SponsorFiveland Investments, Inc.

Purpose: **Prepare Rate Case and make presentation before Utility Board.**

Florida

Case: Docket No. 820152-WS; San Carlos Utilities, Inc. Rate Case, 1982
Sponsor: **San Carlos Utilities, Inc.**
Purpose: **Assist in Preparing Minimum Filing Requirements.**

Florida

Case: Docket No. 820153-S; Shell Point Village Rate Case, 1982
Sponsor: **Shell Point Village**
Purpose: **Prepare Rate Case and represent SPV before PSC.**

Florida

Case: Docket No. 840092-WS; Palm Coast Utility Corp., Rate Case, 1983
Sponsor: **Palm Coast Utility Corp.**
Purpose: **Prepare Rate Case and testimony re Application.**

Florida

Case: Docket No. 840105-WS; Gulf Utility company, Rate Case, 1983
Sponsor: **Gulf Utility Company**
Purpose: **Prepare Rate Case and testimony re Application.**

Florida

Case: Collier County, East Naples Water Systems, Inc., Rate Case, 1984
Sponsor: **East Naples Water Systems, Inc.**
Purpose: **Prepare Rate Case and present testimony re Application.**

Florida

Case: Docket No. _____; East Naples Water systems, Inc., Application for Certificate and Certificate Extension, 1985
Sponsor: **East Naples Water Systems, Inc.**
Purpose: **Prepare Case for presentation to PSC.**

Florida

Case: Docket No. _____; East Naples Water Systems, Inc. Rate Case, 1985
Sponsor: **East Naples Water Systems, Inc.**
Purpose: **Prepare Rate Case and testimony re Application.**

Florida

Case: Docket No. 850100-WS; Du-Lay Utility Company, Inc.; Rate Case, 1984
Sponsor: **Du-Lay Utility Company, Inc.**
Purpose: **Prepare rate case and present testimony re Application.**

Florida

Case: Docket No. 850062-WS; Meadowbrook Utility Systems, Inc. Rate Case, 1984 - 1988
Sponsor: **Meadowbrook Utility Systems, Inc.**

Purpose: **Coordinate case and prepare testimony re Application.**

Florida

Case: Docket No. 870330-WS; Seminole Utility Systems, Inc., Rate Case, 1986
Sponsor: **Seminole Utility Systems, Inc.**
Purpose: **Prepare Rate Case and present testimony re Application.**

Florida

Case: Docket No. 870166-WS; Palm Coast Utility Corp., Rate Case, 1986 - 1987
Sponsor: **Palm Coast Utility Corp.**
Purpose: **Prepare Rate Case and present testimony re Application.**

Florida

Case: Docket No. 870149-WS; Atlantis Utilities Company, Overearnings Investigation
Sponsor: **Atlantis Utilities Company**
Purpose: **Participate in preparation of response to PSC.**

Florida

Case: Undocketed (Sarasota County), Dolomite Utilities Corporation, Rate Case, 1988 - 1989.
Sponsor: **Dolomite Utilities Corporation**
Purpose: **Prepare Rate Case and present testimony re Application.**

Florida

Case: Undocketed (Charlotte County), West Charlotte Utilities, Market Value Appraisal, 1988
Sponsor: **West Charlotte Utilities**
Purpose: **Appraisal for additional financing**

Florida

Case: Docket No. 880756-WS; Atlantis Utilities Company, Rate Case, 1988
Sponsor: **Atlantis Utility Company**
Purpose: **Prepare Rate Case**

Florida

Case: Undocketed (Charlotte County), West Charlotte Utilities, Pass-Thru Application, 1989
Sponsor: **West Charlotte Utilities**
Purpose: **Prepare Pass-Thru Application**

Florida

Case: Docket No. 891114-WS; Sailfish Point Utility Corporation, Rate Case, 1989
Sponsor: **Sailfish Point Utility Corporation**
Purpose: **Prepare Rate Case**

Florida

Case: Docket No. 890554-WU; Lake Griffin Utilities Inc., Certificate Application, 1989
Sponsor: **Lake Griffin Utilities Inc.**

Purpose: **Prepare original cost and application for initial rates and charges.**

Florida

Case: Undocketed; 1988-1989
Sponsor: **Atlantis Utility Company**
Purpose: **Market Value Appraisal and Sale Negotiations**

Florida

Case: Undocketed; 1990
Sponsor: **Tangerine Woods Utilities and Englewood Utilities Co.**
Purpose: **Study Re Englewood Water District Master Plan**

Florida

Case: Docket No. 900329-WS; United Florida Utilities Corporation; Marion and Washington Counties
Sponsor: **Southern States Utilities; United Florida Utilities, and Deltona Utilities**
Purpose: **Prepare and Present Rate Application for Marion and Washington County portion of twenty-seven county rate increase application, including substantiation of original cost. Assist with testimony and brief for entire application.**

Florida

Case: Docket No. 900682-WS; Exemption Request, 1990
Sponsor: **W.P. Utilities**
Purpose: **Request for Exemption from PSC Regulation**

Florida

Case: Docket No. 900816-WS; Sailfish Point Utility Corporation, Rate Case, 1990
Sponsor: **Sailfish Point Utility Corporation**
Purpose: **Prepare and Present Rate Case**

Florida

Case: Undocketed; Sailfish Point Utility Corporation, 1991
Sponsor: **Sailfish Point Utility Corporation**
Purpose: **Prepare Market Valuation**

Florida

Case: Docket No. 910020-WS; Utilities Inc. of Florida (Pasco County), Rate Case, 1991
Sponsor: **Utilities Inc. of Florida**
Purpose: **Prepare and Present Rebuttal Testimony on Used & Useful.**

Florida

Case: Docket No. 911082-WS; Revisions to Water and Wastewater Rules, 1992-93.
Sponsor: **Florida Water Works Association**
Purpose: **Prepare and present comments of Association regarding rule revisions, including ratemaking and used and useful formulae.**

Florida

Case: Docket No. 920174-WU; Utilities Inc. of Florida (Lake County), Application for Amendment of Certificate and Objection to City of Clermont Ord. 273-C, establishing a Chapter 180 F.S., W&S Utility, 1992
Sponsor: Utilities Inc. of Florida
Purpose: Prepare and Present Testimony supporting certificate application and objecting to formation of utility that encompasses UIF certificated service areas and prevents their economic development.

Florida

Case: Docket No. 920199-WS; Southern States Utilities, Inc.
Combined System Rate Case, 1991 & 1992
Sponsor: Southern States Utilities;
Purpose: Develop all rate base data and prepare MFRs for systems in Osceola, Orange, Brevard and Clay counties as part of a combined system rate application.

Florida

Case: Docket No. 920650-WS; Application for Certificate, 1992.
Sponsor: W.P. Utilities
Purpose: Apply for certificate, establish original cost for rate base and rates.

Florida

Case: Undocketed; Rolling Oaks Utility, 1992.
Sponsor: Southern States
Purpose: Prepare duee diligence and valuation report.

Florida

Case: Docket No. 920834-WS; Utilities Inc. of Florida (Pasco County), Limited proceeding to increase rates to recover cost of purchased assets, 1992.
Sponsor: Utilities Inc. of Florida
Purpose: Prepare Original Cost Study and design rates to recover costs.

Florida

Case: Docket No. 921293-SU; Mid-County Services, Inc. (Pinellas County), Application to increase rates tand service availability (SAC) charges.
Sponsor: Mid-County Services, Inc.
Purpose: In response to protest of SACs, prepare analysis of requested charges and evaluate compliance with PSC rules.

Florida

Case: **Docket No. 930770-WU; St. George Island Utility Company, Ltd, Rate Application, 1993.**
Sponsor: **St. George Island Utility**
Purpose: **Prepare all MFRs and supporting testimony**

Florida
Case: **Docket No. 940109-WU; St. George Island Utility Company, Ltd, Rate Application, 1994.**
Sponsor: **St. George Island Utility**
Purpose: **Prepare all MFRs and supporting testimony**

Florida
Case: **Docket No. 930570-WS; Lake Placid Utilities, Inc., Application for certificate transfer.**
Sponsor: **Lake Placid Utilities, Inc.**
Purpose: **Prepare original cost study.**

Florida
Case: **Undocketed; Sailfish Point Utility Corporation, 1994**
Sponsor: **Sailfish Point Utility Corporation**
Purpose: **Prepare Market Valuation**

Florida
Case: **1994-5; Undocketed [THIS IS NOT A RATE APPLICATION]**
Sponsor: **Miami-Dade Water and Sewer Department [Subcontractor to Milian, Swain & Associates]**
Purpose: **Subcontracted to prepare billing analysis and design rates to recover five year projected cost of service.**

Florida
Case: **1994-5; UNDOCKETED Rulemaking on Used & Useful and Petition to Adopt Rules**
Sponsor: **Florida Waterworks Association**
Purpose: **Develop position, draft proposed rule, participate in workshops and consult re Petition to Adopt Rules regarding margin reserve and imputation of CIAC.**

Florida
Case: **Docket No. 951056-WS; Palm Coast Utility Corporation; Application for Increase in Rates**
Sponsor: **Palm Coast Utility Corporation**
Purpose: **Prepare MFRs and supporting testimony; prepare rebuttal testimony; participate in hearing and post hearing procedures.**

Florida
Case: **Docket No. 951593-WS; Palm Coast Utility Corporation; Application for Revision in Service Availability Charges**
Sponsor: **Palm Coast Utility Corporation**
Purpose: **Prepare application; prepare response to staff recommendation; participate in Commission agenda conference.**

Florida

Case: Docket No. 960258-WS; Petition to adopt Rules on Margin Reserve and Imputation of CIAC
Sponsor: Florida Waterworks Association
Purpose: Develop position, draft proposed rule, participate in studies to support position; prepare testimony; prepare responses to testimony; participate in hearings. Testify in subsequent DOAH rule challenge.

Florida

Case: Docket No. 970076-WS; Sailfish Point Utility Corporation, Joint Application to transfer assets to Sailfish Point Service Corporation, 1997
Sponsor: Sailfish Point Utility Corporation
Purpose: Assist with Application

Florida

Case: Docket No. 960283-WS; Wedgefield Utilities, Inc., Application for Transfer of Certificates from Econ Utilities Corp. to Wedgefield, 1997
Sponsor: Wedgefield Utilities, Inc.
Purpose: Testify re Acquisition Adjustment and Policy

Florida

Case: Docket No. 960444-WU; Lake Utility Services, Inc., Application for Rate Increase and for increase in Service Availability Charges, 1997
Sponsor: Lake Utility Services, Inc.
Purpose: File Testimony re Used & Useful and Future Connections for SAC.

Florida

Case: Undocketed - Challenge at DOAH of PSC Rule 25-30.431, 1997-98
Sponsor: Florida Waterworks Association
Purpose: Assist with strategy and discovery; appear as expert witness re regulation and policy issues.

Florida

Case: Undocketed - Market value appraisal, 1997,8 & 2000
Sponsor: Water Management Services, Inc.
Purpose: Prepare market value appraisal and update for re-financing.

Florida

Case: Docket No. 980483-WU; Lake Utility Services, Inc., Investigation re overcollection of AFPI, 1998
Sponsor: Lake Utility Services, Inc.
Purpose: Participate in preparation of testimony.

Florida

Case: Docket No. 971220-WS; Cypress Lakes Utilities, Inc., Application for certificate transfer, 1999
Sponsor: Cypress Lakes Utilities, Inc.
Purpose: Prepare testimony re acquisition adjustment.

Florida

Case: Docket No. 971065-SU; Mid-County Services, Inc., Application for increase in rates, 1999
Sponsor: Mid-County Services, Inc.
Purpose: Prepare testimony re used and useful, margin reserve and imputation of CIAC.

Florida

Case: Undocketed; PSC Annual Reports, 1999
Sponsor: AquaSource, Inc.
Purpose: Prepare annual reports for newly acquired multi-system Crystal River Utilities, Inc.

Florida

Case: Undocketed; Market Valuation, 1999
Sponsor: Northern Trust Bank of Naples
Purpose: Prepare market valuation for defaulted utility, Bonita Country Club Utilities, Inc.

Florida

Case: Docket No. 990975-SU; Application for Certificate Transfer, 1999,2000
Sponsor: Realnor Hallandale, Inc..
Purpose: Participate in preparation of application to transfer Certificate from Bonita Country Club Utilities, Inc. provide consulting re utility operations, prepare PSC annual reports.

Florida

Case: Docket No. 000154-SU; Proposed Rule 25-30.432 re used and useful, 2000
Sponsor: Florida Water Works Association
Purpose: Represent FWWA at PSC Staff workshop; prepare presentation.

Florida

Case: Undocketed; Water and wastewater rates and charges Analysis, 2000
Sponsor: North Miami Beach, City of
Purpose: Through Milian Swain and Associates, Inc. prepare analysis and recommendation for all charges.

Florida

Case: Docket No. 991437-WU; Application for increase in Water rates, 1997-2001
Sponsor: Wedgefield Utilities, Inc.
Purpose: Prepare testimony re used and useful and acquisition adjustment; provide consulting re entire case and issues.

Florida

Case: Docket No. 000694-WU; Application for limited proceeding for increase in rate to recover cost of replacing supply mains on new bridge, 2000

Sponsor: Water Management Services, Inc.
Purpose: Prepare schedules supporting increase; participate in preparation of State Revolving Fund loan application.

Florida
Case: Docket No. 990696-WS; Application for originalcertificate in Duval and St. Johns counties, 2000-01
Sponsor: Nocatee Utility Corp.
Purpose: Through Milian Swain and Associates, Inc. provide analysis of intervenor studies, assist with case analysis, preparation, discovery and hearings.

Florida
Case: Docket No. 001502-WS; Proposed Rule 25-30.0371, Acquisition Adjustments, 2001
Sponsor: Utilities, Inc.
Purpose: Represent UI and present position at PSC workshop.

Florida
Case: Docket No. 001820-SU; Application for certificate Transfer, 2001
Sponsor: Utilities, Inc. of Eagle Ridge
Purpose: Prepare original cost study of newly acquired Cross Creek system.

Florida
Case: Undocketed; Application for original rates and charges and tariffs in St. Johns County, 2000-01
Sponsor: St. Joe Utility Co.
Purpose: Prepare supporting schedules for rates and charges.

Florida
Case: Undocketed; PSC Annual Reports, 2001
Sponsor: Harbor Hills Utilities, Inc.
Purpose: Prepare annual reports and reconcile records in accordance with PSC staff requests.

Florida
Case: Undocketed; Prepare Cost of Service Study, 2002.
Sponsor: CWS - Palm Valley
Purpose: Prepare cost study to support mobile home park conversion from to direct utility billing from rent inclusion.

Florida
Case: Undocketed; Application for original franchise certificate in Flagler County, 2002
Sponsor: MHC, Inc. - Bulow Village
Purpose: Prepare application and supporting documents - application put on hold.

Florida
Case: Docket No. 020006-WS; Reestablishment of Authorized Rate of Return for Water and Wastewater Utilities, 2002
Sponsor: Florida Water Services Corp.
Purpose: Prepare expert testimony on effect of rule change proposal.

Florida

Case: Docket No. 020071-WS; Application for increase in rates and charges, 2002
Sponsor: Utilities Inc. of Florida
Purpose: Prepare Used & Useful analysis and MFR engineering schedules for six county rate application.

Florida

Case: Docket No. 020407-WS; Application for increase in rates and charges, 2002
Sponsor: Cypress Lakes Utilities, Inc.
Purpose: Prepare complete MFR supporting rate increase.

Florida

Case: Docket No. 020409-SU; Application for increase in rates and charges, 2002
Sponsor: Utilities, Inc. of Sandalhaven
Purpose: Prepare complete MFR supporting rate increase.

Florida

Case: Docket No. 020408-SU; Application for increase in rates and charges, 2002
Sponsor: Alafaya Utilities, Inc.
Purpose: Prepare Used & Useful analysis, MFR engineering schedules and original cost study for purchased assets.

Florida

Case: Docket No. 030443-WS; Application for increase in rates and charges, 2003
Sponsor: Labrador Utilities, Inc.
Purpose: Prepare Used & Useful analysis and MFR engineering schedules.

Florida

Case: Docket No. 030444-WS; Application for increase in rates and charges, 2003
Sponsor: Bayside Utility Services, Inc.
Purpose: Prepare complete MFR supporting rate increase.

Florida

Case: Docket No. 030445-SU; Application for increase in rates and charges, 2003
Sponsor: Utilities, Inc. of Eagle Ridge
Purpose: Prepare complete MFR supporting rate increase.

Florida

Case: Docket No. 030446-SU; Application for increase in rates and charges, 2003
Sponsor: Mid-County Utility Services, Inc.
Purpose: Prepare complete MFR supporting rate increase.

Florida

Case: Undocketed - Hillsborough County; Application for increase in rates and charges, 2003
Sponsor: East Lake Water Services, Inc.
Purpose: Prepare Used & Useful Analysis.

Florida

Case: Docket No. 040247-WS; Application for original water and wastewater certificates, rates and charges and tariffs in Franklin County, 2004
Sponsor: St. James Island Utility Company.
Purpose: Prepare application, tariffs and supporting schedules for rates and charges.

Florida

Case: Docket No. 040358-SU; Application for original wastewater certificate, rates and charges and tariffs in Bay County, 2004
Sponsor: Crooked Creek Utility Company.
Purpose: Prepare application, tariffs and supporting schedules for rates and charges.

Florida

Case: Undocketed - Sarasota County; Application for increase in rates and charges, 2004
Sponsor: Siesta Key Utilities Authority.
Purpose: Prepare application and supporting schedules.

Florida

Case: Docket No. 040450-WS; Application for increase in rates and charges, 2004
Sponsor: Indiantown Co., Inc.
Purpose: Prepare Used & Useful analysis.

Florida

Case: Undocketed - Certificate Application, 2005 (never filed)
Sponsor: MHC, Inc.
Purpose: Prepare application and supporting rates and charges.

Florida

Case: Docket No. 050281-WS; Application for increase in rates and charges, 2005
Sponsor: Plantation Bay Utility Co.
Purpose: Prepare Used & Useful analysis.

Florida

Case: Docket No. 050587-WS; Application for increase in rates and charges, 2005
Sponsor: MSM Utilities
Purpose: Assist w/SARC; prepare annual report.

Florida

Case: Docket No. 980876-WS; Application for certificate (update), 2005
Sponsor: Ocala Springs Utility, Inc.
Purpose: Prepare updated analysis.

Florida

Case: Undocketed (Collier County) Applicaton for change in meter installation charges, 2006
Sponsor: Indiantown Co., Inc.

Purpose: **Prepare application.**

Florida
Case: Docket No. 060246-WS; Application for increase in rates and charges, 2006
Sponsor: **Gold Coast Utility Corp.**
Purpose: **Prepare Used & Useful analysis.**

Florida
Case: Docket No. 060256-WS; Application for increase in rates and charges, 2006
Sponsor: **Alafaya Utilities Inc.**
Purpose: **Prepare Used & Useful analysis.**

Florida
Case: Docket No. 060257-WS; Application for increase in rates and charges, 2004
Sponsor: **Cypress Lakes Utilities, Inc.**
Purpose: **Prepare Used & Useful analysis.**

Florida
Case: Docket No. 060260-WS; Application for increase in rates and charges, 2006
Sponsor: **Lake Placid Utilities, Inc.**
Purpose: **Prepare Used & Useful analysis.**

Florida
Case: Docket No. 060254-SU; Application for increase in rates and charges, 2006
Sponsor: **Mid-County Services, Inc.**
Purpose: **Prepare Used & Useful analysis.**

Florida
Case: Docket No. 060255-WS; Application for increase in rates and charges, 2006
Sponsor: **Tierra Verde Utilities, Inc.**
Purpose: **Prepare Used & Useful analysis.**

Florida
Case: Docket No. 060253-WS; Application for increase in rates and charges, 2006
Sponsor: **Utilities,Inc. Of Florida**
Purpose: **Prepare Used & Useful analysis.**
Florida
Case: Docket No. 060261-WS; Application for increase in rates and charges, 2006
Sponsor: **Utilities, Inc. of Pennbrooke**
Purpose: **Prepare Used & Useful analysis.**

Florida
Case: Docket No. 060285-WS; Application for increase in rates and charges, 2006
Sponsor: **Utilities, Inc. of Sandalhaven**
Purpose: **Prepare Used & Useful analysis and Projected TY MFR.**

Florida

Case: Docket No. 070183-WS; Proposed adoption of Rule 25-30.4325, F.A.C., Water Treatment Plant Used and Useful Calculations, 2007
Sponsor: Utilities, Inc.
Purpose: Prepare positions and present testimony on proposed rules.

Florida

Case: Docket No. 080247-SU; Application for increase in rates and charges, 2007
Sponsor: Utilities, Inc. of Eagle Ridge
Purpose: Prepare complete MFR supporting rate increase.

Florida

Case: Docket No. 080248-SU; Application for increase in rates and charges, 2007
Sponsor: Tierra Verde Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida

Case: Docket No. 080249-WS; Application for increase in rates and charges, 2007
Sponsor: Labrador Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida

Case: Docket No. 080250-WS; Application for increase in rates and charges, 2007
Sponsor: Mid-County Services, Inc.
Purpose: Prepare complete MFR supporting rate increase.

Florida

Case: Undocketed -Sarasota Co., Application for increase in rates and charges, 2007
Sponsor: Southgate Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida

Case: Undocketed -Hillsborough Co., Application for increase in rates and charges, 2007
Sponsor: Pebble Creek Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida

Case: Docket No. 090392-WS; Application for increase in rates and charges, 2008
Sponsor: Utilities, Inc. of Pennbrooke
Purpose: Prepare complete MFR supporting rate increase.

Florida

Case: Docket No. 090349-WS; Application for increase in rates and charges, 2008

Sponsor: Cypress Lakes Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 090402-WS; Application for increase in rates and charges, 2008
Sponsor: Sanlando Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 090381-SU; Application for increase in rates and charges, 2008
Sponsor: Utilities, Inc. Of Longwood
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 090462-WS; Application for increase in rates and charges, 2008
Sponsor: Utilities, Inc. Of Florida
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 100104-W; Application for increase in rates and charges, 2009
Sponsor: Water Management Services, Inc.
Purpose: Prepare Used & Useful analysis.
Prepare complete MFR supporting rate increase.

Florida
Case: Docket No. 100426-WS; Application for increase in rates and charges, 2010
Sponsor: Lake Utility Services, Inc. Of Florida
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 110153-S; Application for increase in rates and charges, 2010
Sponsor: Utilities, Inc. of Eagle Ridge
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 110257-WS; Application for increase in rates and charges, 2010
Sponsor: Sanlando Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 110264-WS; Application for increase in rates and charges, 2010
Sponsor: Labrador Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida
Case: Charlotte County Jurisdiction (Undocketed) Application for increase in rates and charges, 2010
Sponsor: Utilities, Inc. of Sandalhaven
Purpose: Prepare complete MFR supporting rate increase.

Florida
Case: Docket No. 100330-WS; Application for increase in rates and charges, 2011
Sponsor: Aqua America, Inc.
Purpose: Prepare Rebuttal Testimony on Used & Useful.

Florida
Case: Docket No. 120037-WS; Application for increase in rates and charges, 2011
Sponsor: Utilities, Inc. of Pennbrooke
Purpose: Prepare MFR and Used & Useful analysis.

Florida
Case: Docket No. 120209-WS; Application for increase in rates and charges, 2011
Sponsor: Utilities, Inc. of Florida
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 130212-WS; Application for increase in rates and charges, 2012
Sponsor: Cypress Lakes Utilities, Inc.
Purpose: Prepare MFR and Used & Useful analysis.

Florida
Case: Docket No. 140135-WS; Application for increase in rates and charges, 2013
Sponsor: Labrador Utilities, Inc.
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 140060-WS; Application for increase in rates and charges, 2013
Sponsor: Sanlando Utilities Corp.
Purpose: Prepare Used & Useful analysis.

Florida
Case: Docket No. 150120-SU; Application for increase in rates and charges, 2014
Sponsor: Utilities, Inc. of Sandalhaven
Purpose: Prepare Used & Useful analysis.

Florida
Case: Undocketed Consulting Services, 2015
Sponsor: Black Bear Reserve Water Corp.
Purpose: Prepare Report of on Considerations re sale of utility

Florida

Case: Docket No. 150071-SU; Application for increase in rates and charges, 2015
Sponsor: KW Resort Utilities Corp.
Purpose: Prepare Used & Useful analysis.

Florida

Case: Collier County Jurisdiction; Application for increase in rates and charges, 2015
Sponsor: Ave Maria Utility Co., LLLP
Purpose: Prepare Used & Useful analysis.

Florida

Case: Docket No. 160101-WS; Application for increase in rates and charges, 2015
Sponsor: Utilities, Inc. of Florida
Purpose: Prepare Used & Useful analysis for all systems and MFRs for the Cypress Lakes, Lake Placid, Pennbrooke, Mid-County and Eagle Ridge systems.

Florida

Case: Docket No. 20170141-SU; Application for increase in rates and charges, 2017
Sponsor: KW Resort Utilities Corp.
Purpose: Prepare Used & Useful analysis.

--- END ---

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Application for increase in water and wastewater rates in Charlotte, Highlands, Lake, Lee, Marion, Orange, Pasco, Pinellas, Polk, and Seminole Counties by Utilities, Inc. of Florida.	)	Docket No. 20200139-WS

EXHIBIT (FS-2)_____

OF

FRANK SEIDMAN

on behalf of

Utilities, Inc. of Florida

Docket No. 20200139-WS
Summary of Used and Useful, Excess Unaccounted for Water (EUW) and Excess I&I Percentages Requested by UIF
Exhibit FS-2_____

				U&U	U&U	U&U	U&U		
		COUNTY	Type	W Plant	Stotage	WW Plant	Dist & Col.	EUW	Excess
				Pct	Pct	Pct	Pct	%	% I&I
	SYSTEM								
1	Cypress Lakes	Polk	W/S	100.00%	100.00%	100.00%	100.00%	-	-
2	Eagle Ridge	Lee	S	-	-	100.00%	100.00%	-	-
2a	Cross Creek	Lee	S	-	-	100.00%	100.00%	-	-
3	Labrador	Pasco	W/S	100.00%	100.00%	100.00%	100.00%	-	-
4	Lake Placid	Highland	W/S	100.00%	100.00%	100.00%	100.00%	10.00%	-
5	Lake Utility Services (LUSI)	Lake	W/S	100.00%	100.00%	72.00%	100.00%	-	-
5a	LUSI (Four Lakes)	Lake	W	100.00%	100.00%	-	100.00%	1.90%	-
5b	LUSI (Lake Saunders)	Lake	W	100.00%	100.00%	-	100.00%	-	-
5c	Barrington WW	Lake	S	-	-	100.00%	100.00%	-	-
6	Golden Hills/Crownwood	Marion	W/S	100.00%	100.00%	78.44%	100.00%	8.80%	-
7	Mid-County	Pinellas	S	-	-	100.00%	100.00%	-	-
8	Crescent Heights	Orange	W	Purchased Treatment - Not appl.	100.00%	-	100.00%	-	-
9	Davis Shores	Orange	W	Purchased Treatment - Not appl.	100.00%	-	100.00%	-	-
10	Summertree	Pasco	W/S	Purchased Treatment - Not appl.	100.00%	Purchased Treatment - Not appl.	100.00%	-	-
11	Orangewood (incl. Wis-Bar, Buena Vista MHP)	Pasco	W/S	100.00%	100.00%	Purchased Treatment - Not appl.	100.00%	-	5.72%
12	Pennbrooke	Lake	W/S	100.00%	100.00%	100.00%	100.00%	-	-
13	Lake Tarpon	Pinellas	W	100.00%	100.00%	-	100.00%	-	-
14	Tierra Verde	Pinellas	S	-	-	Purchased Treatment - Not appl.	100.00%	-	-
15	Sandalhaven - EWD Capacity	Charlotte	S	-	-	51.62%	100.00%	-	-
15a	Sandalhaven - Transmission	Charlotte	S	-	-	100.00%	100.00%	-	-
16	Sanlando Utilities Corp. (incl. Knollwood, DesPinar, Longwood)	Seminole	W/S	100.00%	100.00%	100.00%	100.00%	2.10%	-
17	Bear Lake	Seminole	W	100.00%	100.00%	-	100.00%	-	-
18	Ravenna Park (incl. Crystal Lake, Phillips)/ Lincoln Heights	Seminole	W/S	100.00%	100.00%	Purchased Treatment - Not appl.	100.00%	-	11.25%
19	Jansen	Seminole	W	100.00%	100.00%	-	100.00%	-	-
20	Little Wekiva	Seminole	W	100.00%	100.00%	-	100.00%	5.50%	-
21	Oakland Shores	Seminole	W	100.00%	100.00%	-	100.00%	-	-
22	Park Ridge	Seminole	W	100.00%	100.00%	-	100.00%	-	-
23	Weathersfield	Seminole	W/S	100.00%	100.00%	Purchased Treatment - Not appl.	100.00%	-	-

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Application for increase in water and wastewater rates in Charlotte, Highlands, Lake, Lee, Marion, Orange, Pasco, Pinellas, Polk, and Seminole Counties by Utilities, Inc. of Florida.	)	Docket No. 20200139-WS

EXHIBIT (FS-3)_____

OF

FRANK SEIDMAN

on behalf of

Utilities, Inc. of Florida

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Company: Utilities, Inc. of Florida - Cypress Lakes
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	5.633	5.345	0.000	4.561	0.403	0.382	7.2%
Feb-19	5.732	5.362	0.000	4.622	0.400	0.340	6.3%
Mar-19	7.211	6.678	0.000	4.487	0.333	1.858	27.8%
Apr-19	7.326	6.784	0.000	5.942	0.465	0.377	5.6%
May-19	7.746	7.312	0.000	4.602	0.862	1.847	25.3%
Jun-19	7.602	7.374	0.000	5.094	1.247	1.034	14.0%
Jul-19	7.501	7.325	0.000	4.363	3.131	-0.169	-2.3%
Aug-19	7.680	7.526	0.000	3.492	4.017	0.017	0.2%
Sep-19	6.575	6.443	0.000	3.232	2.358	0.853	13.2%
Oct-19	6.510	6.380	0.000	4.711	1.539	0.130	2.0%
Nov-19	6.817	6.681	0.000	5.042	1.688	-0.050	-0.7%
Dec-19	7.324	7.177	0.000	5.152	2.282	-0.257	-3.6%
Total	83.657	80.387	0.000	55.299	18.724	6.363	7.9%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Cypress Lakes
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Individual Plant Flows Cypress Lakes	(2) Individual Plant Flows (Name)	(3) Individual Plant Flows (Name)	(4) Individual Plant Flows (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
Jan-19	3.722				3.722	0.000
Feb-19	3.692				3.692	0.000
Mar-19	3.993				3.993	0.000
Apr-19	3.468				3.468	0.000
May-19	2.932				2.932	0.000
Jun-19	2.887				2.887	0.000
Jul-19	3.299				3.299	0.000
Aug-19	3.164				3.164	0.000
Sep-19	2.798				2.798	0.000
Oct-19	3.286				3.286	0.000
Nov-19	3.244				3.244	0.000
Dec-19	3.553				3.553	0.000
Total	40.037				40.037	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Cypress Lakes | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

				Date	GPD
1	**Plant Capacity**	**by Water Use Permit**			
	The hydraulic rated capacity. If different from that shown	**AADF**			**293,800**
	on the DEP operating or construction permit, provide an explanatio	**MMADF**			**382,000**
2	**Maximum Day**				
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.	**Max day, no unusual occurrences**		**6/2/2019**	**416,000**
3	**Five Day Max. Year**				
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.		**(1)**	**5/22/2019**	**286,000**
			(2)	**5/5/2019**	**310,000**
			(3)	**5/20/2019**	**315,000**
			(4)	**5/30/2019**	**341,000**
			(5)	**5/27/2019**	**406,000**
				AVERAGE	**331,600**
				Max Month	**235,856**
4	**Average Daily Flow**			**Annual**	**220,238**
5	**Required Fire Flow**	**500 gpm Residential, 1,000 gpm Commercial**		**1,000 gpm for 2 hours**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Cypress Lakes | **Schedule F-4**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
1.	**Plant Capacity (3MADF)**		**190,000**
	The hydraulic rated capacity. If different from that shown on the DER operating or construction permit, provide an explanation.		
2.	**Average Daily Flow Max Month**	**3/2019**	**128,807**
3	**Average Annual Daily Flow**		**109,691**
3	**Max 3 Month Average Daily Flow (3MADF)**	**Ending 3/2019**	**126,907**
	An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.		

(There is no record that this peak month was influenced by any abnormal infiltration)

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Cypress Lakes
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well capacity, gpm		**1,610**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm		**770**	**gpm**
Ground storage capacity, gal.		**0**	**gallons**
Usable ground storage (90%), gal.		**0**	**gallons**
Elevated storage		**0**	**gallons**
Usable elevated storage		**0**	**gallons**
Hydropneumatic storage capacity, gal.		**20,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.		**0**	**gallons**
Total usable storage, gal.		**0**	**gallons**
Maximum day demand		**416,000**	**gpd**
Peak hour demand = 2 x maximum day/1440		**578**	**gpm**
Fire flow requirement	**1,000 gpm x 2 hours**	**120,000**	**gpd**
Unaccounted for water	**7.92% of water pumped**	**17,434**	**gpd, avg**
Acceptable unaccounted for	**10.00%**	**22,024**	**gpd, avg**
Excess unaccounted for		**0.0**	**gpd, avg**

<u>Used & Useful Analysis, in accordance with Rule 25-30.4325:</u>
(No usable storage)

Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**578**	**gpm**
B =	**Property needed to serve five years after TY**	**74**	**gpm**
C =	**Fire flow demand**	**1,000**	**gpm**
D =	**Excess unaccounted for water**	**0**	**gpm**
E =	**Firm Reliable Capacity**	**770**	**gpm**

The above used & useful factor is applicable to all source of supply, pumping and treatment accounts, as well as the land, structures and distribution reservoir accounts.

Note: In Docket no. 130212-WS, the Commission found the water and wastewater systems 100% used and useful and shall continue to be 100% used and useful, after considering the impact of conservation and growth in demand.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Cypress Lakes
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Line No.				
1	(A)	Used and useful flow (000):		
2		3MADF - year 2019		126,907
3	(B)	Property needed for post test year period (see F-8)		12,463
4	(C)	Permitted capacity (3MADF)		190,000
5	(D)	Used and useful percentage		73.35%
			Use	100.00%
6	(E)	Non-used and useful percentage		26.65%

Note: In Docket no. 130212-WS, the Commission found the water and wastewater systems 100% used and useful and shall continue to be 100% used and useful, after considering the impact of conservation and growth in demand.
In Docket No. 20160101-WS, that conclusion was reaffirmed.

Used and Useful Calculations **Florida Public Service Commission**
Wastewater Treatment Plant

Company: Utilities, Inc. of Florida - Cypress Lakes **Schedule F-6**
Docket No.: 20200139-WS **Page 2 of 2**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy	
1	4	0	0.000	0		
2	6	0	0.000	0		
	8	57,097	10.814	43,255		
	10	528	0.100	500		
	12	2,001	0.379	2,274		
3	15	0	0.000	0		
4	Total	59,626	11.293	46,029		16,800,646
5	Estimated Inflow @ 10% of flows (l.10)					5,113,093
6	Allowable I&I					21,913,739

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			40,037,058
	Water Gallons (not capped) sold to:		Estimated returned	
8	Residential WW	49,752,354	80%	39,801,883
9	Non-Res. WW	1,378,580	90%	1,240,722
10	Estimated flows returned	51,130,934		41,042,605
12	Estimated I&I (treated less returned) [l.7-l.9]			-1,005,547
13	Actual less allowable [l.10-l.6]			-22,919,286
14	Excess, if any [l.10-l.6, if positive]			0
15	Excess as percent of wastewater treated			0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Cypress Lakes
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Distribution & Collection Systems

In Docket No.130212-WS, as in the previous Docket No. 090349-WS, the Commission found the distribution and collection systems to be 100% U&U.

In Docket No. 20160101-Ws that conclusion was reaffirmed.

Margin Reserve Calculations | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Cypress Lakes | **Schedule F-8**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Water Treatment & Related Facilities

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see F-9)**	**44.79**	**ERC/yr**	
PT =	**Post test year period per statute**	**5**	**yrs**	
U =	**Unit of measure utilized in U&U calculations**	**0.328**	**gpm/ERC**	*****
PN =	**Property needed expressed in U units**	**74**	**gpm**	

*** Based on 2015 Peak hour demand from F-5 divided by ERCs from Schedule F-9.**

Wastewater Treatment & Related Facilities

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see F-10)**	**31.94**	**ERC/yr**	
PT =	**Post test year period per statute**	**5**	**yrs**	
U =	**Unit of measure utilized in U&U calculations**	**78**	**gpd/ERC**	******
PN =	**Property needed expressed in U units**	**12,463**	**gpd**	

**** Based on 2015 3MADF divided by ERCs fron Schedule F-10.**

Distribution & Collection Systems

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in SFRs (see F-9)**	**33.09**	**SFR/yr**	*******
PT =	**Post test year period per statute**	**5**	**yrs**	
U =	**Unit of measure utilized in U&U calculations**	**1**	**SFR/lot**	
PN =	**Property needed expressed in U units**	**165**	**SFR**	

***** Based on SFR growth. The water & wastewater SFRs are same. EG = TY avg SFRs x groewth rate in SFRs, (F-9 or F-10, col. 10)**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Cypress Lakes
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,416	1,498	1,457	40,703,771	27,937	44,584,391	1,596	
2	2016	1,498	1,521	1,510	42,618,914	28,234	43,947,704	1,557	-2.47%
3	2017	1,521	1,546	1,534	47,653,920	31,075	52,751,360	1,698	9.06%
4	2018	1,546	1,574	1,560	48,440,916	31,052	53,150,596	1,712	0.83%
5	2019	1,574	1,591	1,583	49,752,354	31,439	55,299,224	1,759	2.76%
						Average Growth Through 5-Year Period (Col. 8)			2.55%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	1519.774991
X Coefficient:	48.1156945
R^2:	0.809812398

X	Y
1	1,596
2	1,557
3	1,698
4	1,712
5	1,759
10	2001

Five year growth - Regression	242 Ercs
Annual average growth	48.40 Ercs

Five year growth - Simple Average	224 Ercs
Annual average growth	44.79 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Cypress Lakes
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,416	1,498	1,457	40,703,771	27,937	42,040,061	1,505	
2	2016	1,498	1,521	1,510	42,618,914	28,234	43,947,704	1,557	3.44%
3	2017	1,521	1,546	1,534	47,653,920	31,075	49,219,790	1,584	1.76%
4	2018	1,546	1,574	1,560	48,440,916	31,052	49,732,796	1,602	1.12%
5	2019	1,574	1,591	1,583	49,752,354	31,439	51,130,934	1,626	1.55%
						Average Growth Through 5-Year Period (Col. 8)			1.96%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	1488.225959
X Coefficient:	28.80730431
R^2:	0.955372843

X	Y
1	1,505
2	1,557
3	1,584
4	1,602
5	1,626
10	1776

Five year growth - Regression	150 Ercs
Annual average growth	29.99 Ercs

Five year growth - Simple Average	160 Ercs
Annual average growth	31.94 Ercs

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Eagle Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Individual Plant Flows: Eagle Ridge Plant	(2) Individual Plant Flows: Cross Creek Plant	(3) Individual Plant Flows: (Name)	(4) Individual Plant Flows: (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
Jan-19	6.811	2.484			9.295	0.000
Feb-19	6.275	2.501			8.776	0.000
Mar-19	6.634	2.896			9.530	0.000
Apr-19	6.039	1.981			8.020	0.000
May-19	5.961	1.293			7.254	0.000
Jun-19	5.823	1.153			6.976	0.000
Jul-19	6.601	0.181			6.782	0.000
Aug-19	6.028	1.342			7.370	0.000
Sep-19	5.323	1.141			6.464	0.000
Oct-19	5.894	1.422			7.316	0.000
Nov-19	5.937	1.752			7.689	0.000
Dec-19	6.345	1.835			8.180	0.000
Total	73.671	19.981			93.652	0.000

Note: These plants are not interconnected.

Wastewater Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Eagle Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-4
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	EAGLE RIDGE PLANT		
1	**Plant Capacity (TMADF) Extended aeration**		318,000
	The hydraulic rated capacity. If different from that shown on the DER operating or construction permit, provide an explanation.		
2	**Average Daily Flow Max Month**	2/2019	214,000
3	**Average Annual Daily Flow**		201,838
4	**Maximum Three Month Average Daily Flow**	3/2019	219,272
	An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.		
	(There is no record that this peak month was influenced by any abnormal infiltration)		

		MONTH	GPD
	CROSS CREEK PLANT		
1.	**Plant Capacity (MMADF)**		249,000
	The hydraulic rated capacity. If different from that shown on the DER operating or construction permit, provide an explanation.		
2.	**Average Daily Flow Max Month**	3/2019	93,419
3	**Average Annual Daily Flow**		54,742
4	**Maximum Three Month Average Daily Flow**	3/2019	87,623
	An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.		

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Eagle Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

There are two plants in the Eagle Ridge system - Eagle Ridge and Cross Creek. They are not interconnected and must be evaluated separately.

EAGLE RIDGE

Line No.			
1	(A) Used and useful flow, GPD (TMADF) (See F-4)		219,272
2	(B) Less: Excess I&I (No indication of excess I/I - see note))		-
3	(C) Plus: Property needed for post test year period (See F-8)		-
4	(E) Permitted capacity		318,000
5	(F) Used and useful percentage		68.95%
		Use 100% U&U, See note	100.00%
6	(G) Non-used and useful percentage		31.05%

NOTE:
In Docket No. 20160101-WS indcated that the Commission had previously determined this system to be 100% U&U and should continue to do so. In support of this, in Docket No. 080247-SU it was noted that the service area was virtually built out. Nothing has changed in that regard. The system is built out. The water use oer Wastewater SFR continues to decrease reflecting customer conservation. It has decreased from 266 gpd/SFR in 2007 to 202 gpd/SFR in 2019.

CROSS CREEK

1	(A) Used and useful flow, GPD (MMADF) (See F-4)		93,419
2	(B) Less: Excess I&I (No indication of excess I/I - see note))		-
3	(C) Plus: Property needed for post test year period (See F-8)		-
4	(E) Permitted capacity		249,000
5	(F) Used and useful percentage		37.52%
		Use 100% U&U, See note	100.00%
6	(G) Non-used and useful percentage		62.48%

NOTE:

In Docket No. 20160101-WS indcated that the Commission had previously determined this system to be 100% U&U and should continue to do so.
As with the Eagle Creek system, it should be noted that treated flows have decreased from 82 gpd/Condo unit in 2007 to only 60 gpd/Condo unit in 2019.

Used and Useful Calculations **Florida Public Service Commission**
Wastewater Treatment Plant

Company: Utilities, Inc. of Florida - Eagle Ridge **Schedule F-6**
Docket No.: 20200139-WS **Page 2 of 2**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

EAGLE RIDGE

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
	4	0	0.000	0	
1	6	0	0.000	0	
2	8	53,208	10.077	40,309	
3	10	0	0.000	0	
4	Total	53,208	10.077	40,309	14,712,818
5	Estimated Inflow @ 10% of gallons sold (L.10)				9,216,400
6	Allowable I&I				23,929,218

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			73,671,000
	Gallons Billed (not capped) to:		Estimated returned *	
8	SFR Residential WW cust.	55,799,000	60%	33,479,400
9	All Other	36,365,000	90%	32,728,500
10	Estimated flows returned	92,164,000		66,207,900

11 * The Eagle Ridge community is heavily landscaped both on lots and common areas.
12 Management estimates that a smaller percentage than average of water consumed is
13 is returned for wastewater treatment.

14	Estimated I&I (treated less returned) [L.7-L.10]	7,463,100
15	Actual I&I less allowable [L.11-L.6]	-16,466,118
16	Excess, if any [L.11-L.6, if positive]	0
17	Excess as percent of wastewater treated	0.00%

CROSS CREEK PLANT

18 Cross Creek was originally developed and operated as a not-for-profit association. Wastewater
19 rates were set up on a flat rate basis, based on the total number of buildout units. The area is built out.
20 The current owner continues to bill on a flat rate basis. As such, it has no need for, and no record of, the amount
23 The treated WW flows for Cross Creek for the TY were 19,981,000 gallons or only 60 gpd per unit.
24 I&I does not appear to be a problem.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Eagle Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Wastewater Collection System
In Docket No. 20160101-WS the system was found to be 100% U&U.
Nothing has changed. The systems should remain 100% Used and Useful.

Margin Reserve Calculations

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Eagle Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-8
Page 1 of 1
Preparer: Seidman, F.

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Wastewater Treatment & Related Facilities

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see F-10)**	**9**	**ERC/yr**	
PT =	**Post test year period per statute**	**5**	**yrs**	
U =	**Unit of measure utilized in U&U calculations**	**175**	**gpd/ERC**	****
PN =	**Property needed expressed in U units**	**7,735**	**gpd**	

**** Based on 2019 3MADF divided by ERCs fron Schedule F-10.**

NOTE: Even though F-10 shows a positive trend in growth in ERCs, the system is completely built out.No allowance for growth is requested.

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Eagle Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	776	764	770	57,722,000	74,964	99,584,000	1,328	
2	2016	764	762	763	54,839,000	71,873	93,802,000	1,305	-1.76%
3	2017	762	765	764	58,827,000	77,049	98,732,000	1,281	-1.82%
4	2018	765	758	762	168,928,000	221,836	208,146,000	938	-26.78%
5	2019	758	755	757	55,799,000	73,759	92,164,000	1,250	33.17%
						Average Growth Through 5-Year Period (Col. 8)			0.71%

NOTE: The above data is for the Eagle Ridge system only. There is no gallonage data for Cross Creek. Cross Creek is a flat rate wastewater system; water is sold to and billed to individual customers directly by Lee County. This utility has no gallonage data and the number of units is fixed at 905.

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1377.945319	1	1,328
X Coefficient:	-52.46395407	2	1,305
R^2:	0.267218464	3	1,281
		4	938
		5	1,250
		10	853

Five year growth	(396) Ercs
Annual average growth	-79.24 Ercs

The Coefficient of determination - R^2 is very weak. Use simple average growth rate:

Five year growth	44 Ercs
Annual average growth @ 0.71%	8.82 Ercs

Eagle Ridge and Cross Creek are separately served golf and tennis club communities. The Eagle Ridge service area consists of 815 single family detached residences, 538 apartment units, 178 condo units, 204 town house units and a few commercial customers. In Eagle Ridge, units in some multi-unit buildings are individully metered and some are master metered. Therefore, a customer count and a unit count will not be the same. The number of SFRs shown for the test year are individually metered SFRs. All others are captured under GS accounts.

There is no growth in units but there is fluctuation in SFRs being billed. There is also fluctuation in GS use associated with master metered units. The small rate of growth allows for fluctuating service requirements to be recognized.

The Cross Creek service area consists of 905 condominum units, some of which are single family and some of which are multi-unit buildings. Cross Creek is billed at a flat rate for 905 units.

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	2.428	2.461	0.000	2.017	0.068	0.376	15.3%
Feb-19	2.424	2.456	0.000	2.480	0.066	-0.091	-3.7%
Mar-19	2.794	2.831	0.000	2.267	0.056	0.508	17.9%
Apr-19	2.062	2.089	0.000	2.441	0.020	-0.372	-17.8%
May-19	1.517	1.514	0.000	1.730	0.065	-0.281	-18.6%
Jun-19	1.312	1.273	0.000	1.291	0.079	-0.097	-7.6%
Jul-19	1.312	1.273	0.000	1.243	0.035	-0.005	-0.4%
Aug-19	1.322	1.281	0.000	1.064	0.033	0.185	14.4%
Sep-19	1.669	1.619	0.000	1.305	0.187	0.126	7.8%
Oct-19	1.687	1.637	0.000	1.655	0.062	-0.081	-4.9%
Nov-19	2.103	2.039	0.000	1.533	0.083	0.423	20.7%
Dec-19	2.247	2.179	0.000	1.916	0.088	0.175	8.0%
Total	22.876	22.652	0.000	20.944	0.843	0.865	3.8%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Individual Plant Flows Forest Lakes	(2) Individual Plant Flows (Name)	(3) Individual Plant Flows (Name)	(4) Individual Plant Flows (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
Jan-19	2.143				2.143	0.000
Feb-19	2.649				2.649	0.000
Mar-19	2.686				2.686	0.000
Apr-19	1.802				1.802	0.000
May-19	1.136				1.136	0.000
Jun-19	1.215				1.215	0.000
Jul-19	1.694				1.694	0.000
Aug-19	2.507				2.507	0.000
Sep-19	1.551				1.551	0.000
Oct-19	1.824				1.824	0.000
Nov-19	2.046				2.046	0.000
Dec-19	1.929				1.929	0.000
Total	23.181				23.181	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Labrador | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity**			
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanati	**per Sanitary Survey**		**288,000**
		per CUP, AADF		**99,785**
2	**Maximum Day**			
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.		**9/16/2019**	**135,000**
3	**Five Day Max. Year**			
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.	**(1)**	**3/22/2019**	**111,000**
		(2)	**3/1/2019**	**120,000**
		(3)	**3/29/2019**	**120,000**
		(4)	**3/15/2019**	**122,000**
		(5)	**3/8/2019**	**124,000**
			AVERAGE	**119,400**
4	**Average Daily Flow**		**Max Month**	**91,326**
			Annual	**62,061**
5	**Required Fire Flow**		*** 500 gpm for 2 hours**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-4
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
1.	**Plant Capacity (3MRADF)**		216,000
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.		
2.	**Maximum 3MRADF**	3/2019	83,447
3	**Average Annual Daily Flow**		63,510
	An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**1,075**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**200**	**gpm**
Ground storage capacity, gal.	**34,000**	**gallons**
Usable ground storage (90%), gal.	**30,600**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**0**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**30,600**	**gallons**
Maximum day demand,	**135,000**	**gpd**
Peak hour demand = 2x max day/1440	**188**	**gpm**
Fire flow requirement **500 gpm for 2 hours**	**60,000**	**gpd**
Unaccounted for water **3.82% of water pumped**	**2,370**	**gpd, avg**
Acceptable unaccounted for **10.00%**	**6,189**	**gpd, avg**
Excess unaccounted for	**0**	**gpd, avg**

Used & Useful Analysis, in accordance with Rule 25-30.4325:

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**
(System has Ground Storage)

A = **Peak demand**	**135,000**	**gpd**
B = **Property needed to serve five years after TY**	**0**	**gpd**
C = **Fire flow demand**	**60,000**	**gpd**
D = **Excess Unaccounted for water**	**0**	**gpd**
E = **Firm Reliable Capacity (16 hours)**	**192,000**	**gpd**

The above used and useful factor is applicable to all source of supply, pumping and treatment accounts.

Storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A = **Peak demand**	**135,000**	**gallons**
B = **Property needed to serve five years after TY**	**0**	**gallons**
C = **Fire flow demand**	**60,000**	**gallons**
D = **Excess Unaccounted for water**	**0**	**gallons**
E = **Firm Reliable Capacity**	**30,600**	**gallons**

The above used and useful factor is applicable to the distribution reservoir accounts.

Note: In Docket No. 20160101-WS, the Commission found the WTP & Stotage to be 100% used and useful. There has been no change in circunstances. It should continue to be 100% used and useful.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Line No.				
		Labrador (Forest Lake Estates) WWTP		
1	(A)	Used and useful flow (000):		
2		3MRADF - year 2019		83,447
3	(B)	Property needed for post test year period (see F-8)		589.28
4	(C)	Permitted capacity		216,000
5	(D)	Used and useful percentage		38.91%
6	(E)	Non-used and useful percentage		61.09%
7	[F]	Used and useful percentage for rate case purposes (see note).	USE:	100.00%

NOTE: The plant serves an 894-lot MHP and a 274-lot RV park. Occupancy is subject to large seasonal variations. A plant constructed to serve full occupancy of the MHP alone at design flows of 280 gpd/ERC would require 250,000 gpd capacity. However, actual flows for the whole system are closer to 75 gpd/ERC (down from 78 in 2015) in the peak 3-month period assuming 95% occupancy. The flow for which the plant is designed is reasonable. In addition, the system is built out. In Docket No. 140135-WS, and again in Docket No. 20160101-WS, the Commission rejected the argument to use 100% because an 11.6% parcel within the service area, owned by the developer has remained vacant may have potential for development. The Commission opted to allow 79.94%, the highest U&U allowed in a previous order, consistent with its policy to recognize the effects of conservation. The developer has now indicated that it has plans to finally develop the parcel for 36 manufactured homes. That will use all of the parcel and the service area will be built out. Under these circumstances, there is no longer any justification to deny finding the WWTP 100% used and useful.

All reuse related plant that can be separately identified in the accounts should be considered as 100% used & useful irrespective of the decision regarding the WWTP.

Recap Schedules: A-6, A-10, B-14

Used and Useful Calculations
Wastewater Treatment Plant

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 2 of 2
Preparer: Seidman, F.

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
	4	0	0.000	0	
1	6	0	0.000	0	
2	8	33,989	6.437	25,749	
3	10	0	0.000	0	
4	Total	33,989	6.437	25,749	9,398,473
5	Estimated Inflow @ 10% of gallons sold (L.10)				2,017,242
6	Allowable I&I				11,415,715

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			23,181,200
	Gallons Billed (not capped) to:		Estimated returned *	
8	SFR Residential WW cust.	16,542,478	80%	13,233,982
9	All Other	3,629,940	90%	3,266,946
10	Estimated flows returned	20,172,418		16,500,928
11	Estimated I&I (treated less returned) [L.7-L.10]			6,680,272
12	Actual I&I less allowable [L.11-L.6]			-4,735,444
13	Excess, if any [L.11-L.6, if positive]			0
14	Excess as percent of wastewater treated			0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Distribution & Collection Systems

In the last three cases, Docket Nos. 110264-WS, 140135-WS and 20160101-WS, the Commission found the distribution & collection systems to be 100% used and useful. They should continue to be so.

Margin Reserve Calculations

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-8
Page 1 of 1
Preparer: Seidman, F.

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5, F-6, F-7

Water Treatment & Related Facilities

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see F-9)**	**1.39**	**ERC/yr**	
PT =	**Post test year period per statute**	**5**	**yrs**	
U =	**Unit of measure utilized in U&U calculations**	**120**	**gpd/ERC**	****
PN =	**Property needed expressed in U units**	**829**	**gpd**	
	System built out. Use:	**0**	**gpd**	

**** MDD from F-5 divided by average ERCs from F-9.**

Wastewater Treatment & Related Facilities

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see F-10)**	**1.53**	**ERC/yr**	*****
PT =	**Post test year period per statute**	**5**	**yrs**	
U =	**Unit of measure utilized in U&U calculations**	**77**	**gpd/ERC**	****
PN =	**Property needed expressed in U units**	**589**	**gpd**	

**** 3MRADF from F-6 divided by average ERCs from F-9.**

Distribution & Collection Systems

The distribution & collection lines serving customers are 100 U&U. See F-7.

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	879	893	886	13,571,318	15,318	17,200,248	1,123	
2	2016	893	883	888	13,001,852	14,642	16,275,632	1,112	-1.01%
3	2017	883	888	886	12,924,521	14,596	16,512,611	1,131	1.78%
4	2018	888	882	885	14,937,445	16,878	19,292,015	1,143	1.03%
5	2019	882	900	891	16,542,478	18,566	20,943,668	1,128	-1.31%
						Average Growth Through 5-Year Period (Col. 8)			0.12%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1114.872401	1	1,123
X Coefficient:	4.168349819	2	1,112
R^2:	0.328386677	3	1,131
		4	1,143
		5	1,128
		10	1157

Five year growth	29 Ercs
Annual average growth	5.70 Ercs

The Coefficient of determination - R^2 is very weak. Use simple average growth rate:

Five year growth	6.9 Ercs
Annual average growth @ 0.12%	1.39 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Labrador
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	879	893	886	13,571,318	15,318	16,556,448	1,081	
2	2016	893	883	888	13,001,852	14,642	15,501,572	1,059	-2.05%
3	2017	883	888	886	12,924,521	14,596	15,643,081	1,072	1.23%
4	2018	888	882	885	14,937,445	16,878	18,412,985	1,091	1.79%
5	2019	882	900	891	16,542,478	18,566	20,172,418	1,087	-0.40%
						Average Growth Through 5-Year Period (Col. 8)			0.14%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1064.724153	1	1,081
X Coefficient:	4.34497786	2	1,059
R^2:	0.287006867	3	1,072
		4	1,091
		5	1,087
		10	1108

Five year growth	22 Ercs
Annual average growth	4.33 Ercs

The Coefficient of determination - R^2 is very weak. Use simple average growth rate:

Five year growth	8 Ercs
Annual average growth @ 0.14%	1.53 Ercs

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Lake Placid
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	0.751	0.770	0.000	0.415	0.005	0.350	45.5%
Feb-19	0.758	0.777	0.000	0.694	0.000	0.083	10.7%
Mar-19	0.859	0.881	0.000	0.661	0.000	0.220	25.0%
Apr-19	0.677	0.694	0.000	0.574	0.017	0.103	14.8%
May-19	0.728	0.746	0.000	0.601	0.000	0.145	19.5%
Jun-19	0.925	0.948	0.000	0.553	0.230	0.165	17.4%
Jul-19	0.569	0.583	0.000	0.445	0.000	0.138	23.7%
Aug-19	0.550	0.544	0.000	0.301	0.002	0.241	44.3%
Sep-19	0.536	0.516	0.000	0.510	0.000	0.007	1.3%
Oct-19	0.612	0.589	0.000	0.625	0.000	-0.035	-6.0%
Nov-19	0.634	0.611	0.000	0.421	0.000	0.190	31.1%
Dec-19	0.625	0.603	0.000	0.559	0.000	0.044	7.2%
Total	8.221	8.263	0.000	6.359	0.255	1.650	20.0%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Lake Placid
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Individual Plant Flows Sun'N Lake Plant	(2) Individual Plant Flows (Name)	(3) Individual Plant Flows (Name)	(4) Individual Plant Flows (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
Jan-19	0.516				0.516	0.000
Feb-19	0.587				0.587	0.000
Mar-19	0.477				0.477	0.000
Apr-19	0.411				0.411	0.000
May-19	0.331				0.331	0.000
Jun-19	0.461				0.461	0.000
Jul-19	0.514				0.514	0.000
Aug-19	0.550				0.550	0.000
Sep-19	0.307				0.307	0.000
Oct-19	0.150				0.150	0.000
Nov-19	0.376				0.376	0.000
Dec-19	0.522				0.522	0.000
Total	5.201				5.201	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Lake Placid | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity**			
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Per Sanitary Survey**		**288,000**
2	**Maximum Day**			
	The single day with the highest pumpage rate for the test year.		**6/3/2019**	**152,200**
	Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.			**Main break**
		Max day w/o unusual occurrence	**6/4/2019**	**106,000**
3	**Five Day Max. Year**			
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.	**(1)**	**6/1/2019**	**52,800**
		(2)	**6/7/2019**	**56,500**
		(3)	**6/5/2019**	**61,300**
		(4)	**6/4/2019**	**106,000**
		(5)	**6/3/2019**	**152,200**
			AVERAGE	**85,760**
4	**Average Daily Flow**		**Max Month**	**31,602**
			Annual	**22,640**
5	**Required Fire Flow**		**500 gpm for 2 hours**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Lake Placid **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
1.	**Plant Capacity (Permitted @ AADF)** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		**90,000**
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**	**2/2019**	**20,968**
3	**Annual Average Daily Flow**		**14,250**

Used and Useful Calculations **Florida Public Service Commission**
Water Treatment Plant

Company: Utilities, Inc. of Florida - Lake Placid **Schedule F-5**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**400**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**200**	**gpm**
Ground storage capacity, gal.	**0**	**gallons**
Usable ground storage (90%), gal.	**0**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**5,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**0**	**gallons**
Maximum day demand,	**106,000**	**gpd**
Peak hour demand = 2x max day/1440	**147**	**gpm**
Fire flow requirement **500 gpm for 2 hours**	**500**	**gpm**
Unaccounted for water **19.96% of water pumped**	**4,497**	**gpd, avg**
Acceptable unaccounted for **10.00%**	**2,246**	**gpd, avg**
Excess unaccounted for	**2,250**	**gpd, avg**

Used & Useful Analysis, in accordance with Rule 25-30.4325:

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**
(No usable atorage)

A =	**Peak demand**	**147**	**gpm**
B =	**Property needed to serve five years after TY**	**0**	**gpm**
C =	**Fire flow demand**	**500**	**gpm**
D =	**Excess Unaccounted for water**	**1.6**	**gpm**
E =	**Firm Reliable Capacity (16 hours)**	**200**	**gpm**

NOTE: In Docket No. 20160101-WS, this water plant, storage and related facilities were found to be 100% U&U. In addition to the above analysis, in Docket No. 130243-WS, Order No. PSC-14-0335-PAA-WS, the Commission found that there had been no growth in the previous five years in the service area and no apparent potential for development. Pursuant to Rule 25-30.4325(4), F.A.C., the treatment should be considered 100% used & useful.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Placid
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Line No.					
1	(A)	Used and useful flow, GPD (AADF)			14,250
2	(B)	Less: Excess I&I (No indication of excess I/I - see note))			-
3	(C)	Plus: Property needed for post test year period (See F-8)			-
4	(E)	Permitted capacity (see Note)			90,000
5	(F)	Used and useful percentage			15.83%
6			System essentially built out (F-7),	Use	100.00%
7	(G)	Non-used and useful percentage			84.17%
8			System essentially built out (F-7),	Use	0.00%

In Docket No. 20160101-WS, Lake Placid requested 100% U&U based on build out. Thee Commission allowed 29.79%, as calculated by OPC and indicated there were signs of growth. In this case the growth is negative (see F-10) and the calculated U&U has dropped to 15.83%. This utility had extremely low 54 gpd/ERC treated flows in the last case and it is now only 43 gpd/ERC. As indicated in the previous case, if full permitted capacity were utilized, the flows would be 258 gpd/ERC, which is reasonable design capacity. Since the system is not over built, there is no potential for growth, and the only reason for a low U&U calculation is very low average use, the WWTP should be considered 100% U&U.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Placid
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 2 of 2
Preparer: Seidman, F.

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
	4	0	0.000	0	
1	6	0	0.000	0	
2	8	5,531	1.048	4,190	
3	10	0	0.000	0	
4	Total	5,531	1.048	4,190	1,529,405
5	Estimated Inflow @ 10% of gallons sold (L.10)				774,291
6	Allowable I&I				2,303,696

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			5,201,300
	Gallons Billed (not capped) to:		Estimated returned	
8	SFR Residential WW cust.	2,609,778	80%	2,087,822
9	All Other	5,133,130	90%	4,619,817
10	Estimated flows returned	7,742,908		6,707,639
11	Estimated I&I (treated less returned) [L.7-L.10]			-1,506,339
12	Actual I&I less allowable [L.11-L.6]			-3,810,036
13	Excess, if any [L.11-L.6, if positive]			0
14	Excess as percent of wastewater treated			0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Placid
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

In the two previous dockets the Commission found the distribution and collection systems to be 100% U&U. In Docket No. 20160101-Ws that conclusion was reaffirmed.

Margin Reserve Calculations

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Placid
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-8
Page 1 of 1
Preparer: Seidman, F.

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Not applicable - Residential system is built out. The water system is 100% U&U. The growth in WW ERCs is erratic and currently negative.

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Placid
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	103	113	108	2,088,930	19,342	4,658,650	241	
2	2016	113	117	115	2,452,330	21,325	5,449,430	256	6.10%
3	2017	117	116	117	2,460,560	21,121	6,275,762	297	16.28%
4	2018	116	116	116	2,518,712	21,713	5,860,480	270	-9.16%
5	2019	116	109	113	2,609,778	23,198	6,359,088	274	1.56%
						Average Growth Through 5-Year Period (Col. 8)			3.69%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	243.2474217	1	241
X Coefficient:	8.088865766	2	256
R^2:	0.367423218	3	297
		4	270
		5	274
		10	324

Five year growth	50 Ercs
Annual average growth	10.00 Ercs

NOTE: This a no growth system with regard to residential development, as evidenced above. However there has been growth in the usage within the general service sector. Being a small system, changes like this result in large percentage differences. As the system is built out, there is no request at this time for a growth allowance

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Placid
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	103	113	108	2,088,930	19,342	6,564,210	339	
2	2016	113	117	115	2,452,330	21,325	6,855,780	321	-5.27%
3	2017	117	116	117	2,460,560	21,121	7,507,832	355	10.57%
4	2018	116	116	116	2,609,778	22,498	7,288,236	324	-8.87%
5	2019	116	109	113	2,609,778	23,198	7,742,908	334	3.03%
						Average Growth Through 5-Year Period (Col. 8)			-0.13%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	337.439537
X Coefficient:	-0.875205403
R^2:	0.010294089

X	Y
1	339
2	321
3	355
4	324
5	334
10	329

Five year growth	(5) Ercs
Annual average growth	-1.02 Ercs

NOTE: This a no growth system with regard to residential development, as evidenced above. However there has been growth in the gallons usage within the general service sector, but on an ERC basis, it is erratic. Being a small system, changes like this result in large perntage differences. As the residential system is built out and the ERC changes are erratic and in this case negative, there is no request at this time for a growth allowance

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 3
Preparer: Seidman, F.

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	118.825	118.70	0.000	106.891	0.188	11.625	9.8%
Feb-19	108.616	108.48	0.000	105.003	0.273	3.202	3.0%
Mar-19	141.293	141.89	0.000	103.073	0.176	38.639	27.2%
Apr-19	139.305	139.59	0.000	133.056	0.197	6.338	4.5%
May-19	165.550	165.80	0.000	129.167	0.143	36.488	22.0%
Jun-19	149.015	149.50	0.000	156.705	1.270	-8.475	-5.7%
Jul-19	136.242	137.25	0.000	138.133	0.221	-1.103	-0.8%
Aug-19	128.327	129.36	0.000	113.826	2.446	13.088	10.1%
Sep-19	153.219	154.37	0.000	132.967	0.398	21.005	13.6%
Oct-19	158.832	159.89	0.000	143.105	0.356	16.425	10.3%
Nov-19	141.717	142.68	0.000	137.360	0.322	5.002	3.5%
Dec-19	124.562	125.41	0.000	133.278	0.303	-8.175	-6.5%
Total	1,665.502	1,672.916	0.000	1,532.564	6.293	134.059	8.0%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 2 of 3
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Lake Utilities Services - Four Lakes
Docket No.: 20200139-WS
Historical Year Ended: June 30, 2010

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water (3)
Jan-19	0.488	0.485	0.000	0.375	0.006	0.104	21.5%
Feb-19	0.445	0.442	0.000	0.389	0.005	0.048	10.8%
Mar-19	0.686	0.680	0.000	0.386	0.006	0.288	42.4%
Apr-19	0.514	0.505	0.000	0.614	0.021	-0.130	-25.6%
May-19	0.727	0.714	0.000	0.440	0.003	0.271	37.9%
Jun-19	0.586	0.575	0.000	0.616	0.004	-0.045	-7.8%
Jul-19	0.507	0.498	0.000	0.540	0.006	-0.048	-9.6%
Aug-19	0.426	0.418	0.000	0.402	0.005	0.011	2.6%
Sep-19	0.544	0.535	0.000	0.386	0.005	0.143	26.8%
Oct-19	0.533	0.524	0.000	0.433	0.013	0.077	14.7%
Nov-19	0.491	0.482	0.000	0.434	0.010	0.038	7.8%
Dec-19	0.455	0.447	0.000	0.441	0.009	-0.004	-0.8%
Total	6.402	6.306	0.000	5.458	0.094	0.753	11.9%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 3 of 3
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Lake Utilities Services - Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: June 30, 2010

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	0.253	0.261	0.000	0.177	0.075	0.008	3.3%
Feb-19	0.261	0.269	0.000	0.151	0.109	0.009	3.5%
Mar-19	0.407	0.416	0.000	0.171	0.094	0.151	36.3%
Apr-19	0.400	0.397	0.000	0.287	0.150	-0.040	-10.0%
May-19	0.353	0.351	0.000	0.231	0.067	0.053	15.0%
Jun-19	0.400	0.398	0.000	0.247	0.082	0.069	17.5%
Jul-19	0.284	0.282	0.000	0.300	0.052	-0.070	-24.9%
Aug-19	0.270	0.268	0.000	0.201	0.053	0.014	5.2%
Sep-19	0.339	0.337	0.000	0.165	0.060	0.112	33.2%
Oct-19	0.365	0.362	0.000	0.287	0.073	0.003	0.7%
Nov-19	0.302	0.300	0.000	0.255	0.059	-0.014	-4.6%
Dec-19	0.284	0.282	0.000	0.228	0.059	-0.005	-1.7%
Total	3.920	3.924	0.000	2.699	0.934	0.291	7.4%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 2
Preparer: Seidman, F.

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Individual Plant Flows Lake Groves	(2) Individual Plant Flows (Name)	(3) Individual Plant Flows (Name)	(4) Individual Plant Flows (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
Jan-19	16.55				16.55	-
Feb-19	15.19				15.19	-
Mar-19	16.61				16.61	-
Apr-19	16.27				16.27	-
May-19	16.27				16.27	-
Jun-19	16.10				16.10	-
Jul-19	17.53				17.53	-
Aug-19	17.32				17.32	-
Sep-19	16.11				16.11	-
Oct-19	17.03				17.03	-
Nov-19	16.83				16.83	-
Dec-19	17.86				17.86	-
Total	199.66	-	-	-	199.66	-

(Above data in millions of gallons)

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 2 of 2
Preparer: Seidman, F.

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Individual Plant Flows Barrington (1)	(2) Individual Plant Flows (Name)	(3) Individual Plant Flows (Name)	(4) Individual Plant Flows (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
Jan-19	0.720				0.720	-
Feb-19	0.648				0.648	-
Mar-19	0.711				0.711	-
Apr-19	0.716				0.716	-
May-19	0.746				0.746	-
Jun-19	0.704				0.704	-
Jul-19	0.666				0.666	-
Aug-19	0.749				0.749	-
Sep-19	0.687				0.687	-
Oct-19	0.697				0.697	-
Nov-19	0.683				0.683	-
Dec-19	0.740				0.740	-
Total	8.467	-	-	-	8.467	-

(Above data in millions of gallons)

(1) - Not conneccted to Lake Groves plant

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 3**
Historical Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity**			
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Combined Max Day Design Capacity**		**13,776,000**
	[Cumulative design capacity of all well systems in LUSI]	**Combined Ann. Avg. Day per CUP**		**5,316,000**
2	**Maximum Day (see Sch. F-1)**			
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.		**5/30/2019**	**8,120,000**
3	**Five Day Max. Year (see Sch. F-1)**			
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.	**(1)**	**5/29/2019**	**6,580,000**
		(2)	**5/26/2019**	**6,994,000**
		(3)	**5/27/2019**	**7,030,000**
		(4)	**5/31/2019**	**7,556,000**
		(5)	**5/30/2019**	**8,120,000**
			AVERAGE	**7,256,000**
			Max Month	**5,348,334**
4	**Average Daily Flow**		**Annual**	**4,583,331**
5	**Required Fire Flow [Lake County Code]**			**500 gpm x 2 hrs**

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Lake Utilities Services - Four Lakes | **Schedule F-3**
Docket No.: 20200139-WS | **Page 2 of 3**
Historical Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation. [Limited by Water Use Permit peak month withdrawal]**			**151,200**
2	**Maximum Day (see Sch. F-1, page 2)** **The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.**		**5/27/2019**	**43,980**
3	**Five Day Max. Year (see Sch. F-1, page 2)** **The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.**	**(1)**	**5/30/2019**	**29,441**
		(2)	**5/20/2019**	**31,815**
		(3)	**5/25/2019**	**36,816**
		(4)	**5/26/2019**	**36,816**
		(5)	**5/27/2019**	**43,980**
			AVERAGE	**35,773**
			Max Month	**23,041**
4	**Average Daily Flow**		**Annual**	**17,276**
5	**Required Fire Flow [Lake County Code]**			**1200 gpm x 2 hrs**
	The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.			

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Lake Utilities Services - Lake Saunders | **Schedule F-3**
Docket No.: 20200139-WS | **Page 3 of 3**
Historical Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity**			
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.			**432,000**
	[Limited by Water Use Permit peak month withdrawal]	**per CUP, Ann. Avg Day**		**12,329**
2	**Maximum Day (see Sch. F-1, page 2)**			
	The single day with the highest pumpage rate for the test year.		**4/23/2019**	**65,030**
	Explain, on a separate sheet of paper if fire flow, line breaks,			**PRV Testing**
	or other unusual occurrences affected the flow this day.	**Peak Day w/o unusual occurrence**	**6/18/2019**	**31,320**
3	**Five Day Max. Year (see Sch. F-1, page 2)**			
	The five days with the highest pumpage rate from any one month	**(1)**	**3/24/2019**	**16,960**
	in the test year. Provide an explanation if fire flow, line	**(2)**	**3/27/2019**	**18,930**
	breaks or other unusual occurrences affected the flows on	**(3)**	**3/30/2019**	**19,105**
	these days.	**(4)**	**3/31/2019**	**19,105**
		(5)	**3/11/2019**	**19,770**
			AVERAGE	**18,774**
			Max Month	**13,422**
4	**Average Daily Flow**		**Annual**	**10,750**
5	**Required Fire Flow [Lake County Code]**			**1200 gpm x 2 hrs**

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders | **Schedule F-4**
Docket No.: 20200139-WS | **Page 1 of 2**
Historical Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
1.	**Plant Capacity (Lake Groves) (AADF)**		**999,000**
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation. Note: Although the plant was expanded to 1 mgd, the permit allows operation at .499 mgd as long as the AADF remains below .500 mgd.		
2.	**Average Daily Flow Max Month (a)**	**Dec, 2019**	**576,258**
	Annual Average Daily Flow		**547,022**
	An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.		

Wastewater Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders | **Schedule F-4**
Docket No.: 20200139-WS | **Page 2 of 2**
Historical Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
1.	**Plant Capacity (Barrington) (AADF)**		**49,000**
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation. Note: Although the plant was expanded to 1 mgd, the permit allows operation at .499 mgd as long as the AADF remains below .500 mgd.		
2.	**Average Daily Flow Max Month (a)**	**Aug, 2019**	**24,967**
	Annual Average Daily Flow		**23,197**
	An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-5
Page 1 of 4
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**12,455**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**9,455**	**gpm**
Ground storage capacity, gal.	**2,624,685**	**gallons**
Usable ground storage (90%), gal.	**2,362,217**	**gallons**
Elevated Storage		
Usable elevated storage (100%)		
Hydropneumatic storage capacity, gal.	**810,400**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**2,362,217**	**gallons**
Maximum day demand,	**8,120,000**	**gpd**
Peak hour demand = 2 x max day/1440	**11,278**	**gpd**
Fire flow requirement **500 gpm for x 2 hours**	**60,000**	**gpd**
Unaccounted for water **8.01% of water pumped**	**367,284**	**gpd, avg**
Acceptable unaccounted for **10.00%**	**458,333**	**gpd, avg**
Excess unaccounted for	**0**	**gpd, avg**

Used & Useful Analysis, inaccordance with Rule 25-30.4325;

Water Treatment Facilities, usable storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand (Max Day)**	**8,120,000**	**gpd**
B =	**Property needed to serve five years after TY**	**1,486,931**	**gpd**
C =	**Fire flow demand**	**60,000**	**gpd**
D =	**Excess Unaccounted for water**	**0**	**gpd**
E =	**Firm Reliable Capacity (16 hours)**	**9,076,800**	**gpd**

The above used and useful factor is applicable to all source of supply, pumping and treatment accounts.

Storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand (Max Day)**	**8,120,000**	**gpd**
B =	**Property needed to serve five years after TY**	**1,486,931**	**gpd**
C =	**Fire flow demand**	**60,000**	**gpd**
D =	**Excess Unaccounted for water**	**0**	**gpd**
E =	**Firm Reliable Capacity (Usable Capacity)**	**2,362,217**	**gallons**

The above used and useful factor is applicable to the distribution reservoir account.

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Utilities Services - Four Lakes
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-5
Page 2 of 4
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm		**180 gpm**
Firm Reliable well pumping capacity (largest well out), gpm		**90 gpm**
Ground storage capacity, gal.		**0 gallons**
Usable ground storage (90%), gal.		**0 gallons**
Elevated Storage		
Usable elevated storage (100%)		
Hydropneumatic storage capacity, gal.		**2,000 gallons**
Usable hydropneumatic storage capacity (0.00%), gal.		**0 gallons**
Total usable storage, gal.		**0 gallons**
Maximum day demand,		**43,980 gpd**
Peak hour demand = 2 x max day/1440		**61 gpm**
Fire flow requirement	**500 gpm for x 2 hours**	**500 gpm**
Unaccounted for water	**11.95% of water pumped**	**1.433 gpm**
Acceptable unaccounted for	**10.00%**	**1.200 gpm**
Excess unaccounted for		**0.234 gpm**

Used & Useful Analysis, inaccordance with Rule 25-30.4325;

Water Treatment Facilities, no usable storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand (Max Day) - Peak hour**	**61 gpm**
B =	**Property needed to serve five years after TY**	**0.0 gpm**
C =	**Fire flow demand**	**500 gpm**
D =	**Excess Unaccounted for water**	**0.23 gpm**
E =	**Firm Reliable Capacity**	**90 gpm**

The above used and useful factor is applicable to all source of supply, pumping and treatment accounts, as well as the land, structures and distribution reservoir accounts.

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Utilities Services - Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-5
Page 3 of 4
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm		**600 gpm**
Firm Reliable well pumping capacity (largest well out), gpm		**300 gpm**
Ground storage capacity, gal.		**0 gallons**
Usable ground storage (90%), gal.		**0 gallons**
Elevated Storage		
Usable elevated storage (100%)		
Hydropneumatic storage capacity, gal.		**5,000 gallons**
Usable hydropneumatic storage capacity (0.00%), gal.		**0 gallons**
Total usable storage, gal.		**0 gallons**
Maximum day demand,		**31,320 gpd**
Peak hour demand = 2 x max day/1440		**44 gpm**
Fire flow requirement	**500 gpm for x 2 hours**	**500 gpm**
Unaccounted for water	**7.41% of water pumped**	**0.553 gpm**
Acceptable unaccounted for	**10.00%**	**0.746 gpm**
Excess unaccounted for		**0 gpm**

Used & Useful Analysis, inaccordance with Rule 25-30.4325;

Water Treatment Facilities, no usable storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand (Max Day) - Peak hour**	**44 gpm**
B =	**Property needed to serve five years after TY**	**0 gpm**
C =	**Fire flow demand**	**500 gpm**
D =	**Excess Unaccounted for water**	**0.0 gpm**
E =	**Firm Reliable Capacity**	**300 gpm**

The above used and useful factor is applicable to all source of supply, pumping and treatment accounts, as well as the land, structures and distribution reservoir accounts.

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders **Schedule F-5**
Docket No.: 20200139-WS **Page 4 of 4**
Historical Year Ended: December 31, 2019 **Preparer: Seidman, F.**

The LUSI Combined system covers an extended area and is composed of multiple wells and storage facilities. These facilities are interconnected and serve the service area as a whole. As such, the system is analyzed for used & useful as a single system. The capacities and descriptions of the components are shown below.

Wells

Name					Pump Capacity	Max Day	Storage		
LUSI North	PWS ID #	Location	Well No.	Yr Drilled	gpm	Design, gpd	MG	Type	Source
Lake Louisa WTP	3354883-02	Vistas	1/AAH6658	1988	1,000	2,520,000	1.0000	G	Sanitary Survey 6/21/2018
		Vistas	3/AAH2778	2003	625		incl.		
Vistas	3354883-03	Vistas	2/AAH6686	1993	750	822,000	0.1000	G	Sanitary Survey 6/21/2018
							0.0150	H	
Lake Ridge Club	3354883-05	L. Ridge Club	1/Unknown	1990	650	468,000	0.0070	H	Sanitary Survey 6/21/2018
Amber Hill	3354883-06	Amber Hill	1/Unknown	1985	500	396,000	0.0075	H	Sanitary Survey 6/21/2018
Clermont #1	3354883-07	Four Winds	1/AAH6674	1940	236	115,000	0.0010	H	Sanitary Survey 6/21/2018
			2/AAH6675	1980	54		0.0009	H	
Clermont #2	3354883-08	Carr Water System	1/AAH6677	1939	45	71,000	0.0035	H	Sanitary Survey 6/21/2018
			2/AAH6676	1963	75				
Crescent Bay	3354883-09	Crescent Bay	2/AAH6683	1995	700	396,000	0.0100	H	Sanitary Survey 6/21/2018
The Oranges	3354883-10	The Oranges	1/AAH6684	1986	530	396,000	0.0045	H	Sanitary Survey 6/21/2018
C.R. 561	3354883-12					2,592,000			Sanitary Survey 6/21/2018
		L. Crescent Hills	2/AAH6681	1991	600		0.7500	G	
		Crescent West	3/Unknown*	1987	690		0.0010	H	
		Highland Point	1/AAH4420*	1986	600		0.0100	H	
LUSI South	3354881	Greater Groves	AAH6688	1991	1,200	6,000,000	-	H	Sanitary Survey 6/21/2018
			AAH6687	1992	1,200		0.5000	G	
			AAI5838	2005	3,000		1.0000	G	
							0.0247	GC	
Totals - LUSI North & South					12,455	13,776,000	2.6247	G	
							0.8104	H	

Stand Alone Systems

					Capacity	Design, gpd	Gal	Type	
	PWS ID #	Location	Well No.	Yr Drilled	gpm				
Lake Saunders	3354695	L. Saunders	AAH6670	1984	300	432,000	5,000	H	Sanitary Survey 5/18/2018
		L. Saunders	AAH6671	1984	300				

					Pump Capacity	Max Day Design, gpd	Storage Gal	Type	
	PWS ID #	Location	Well No.	Yr Drilled	gpm				
Four Lakes	3354647	Four Lakes	AAH6673	1980	90	151,200	2,000	H	Sanitary Survey 7/10/18
		Four Lakes	AAH6672	1980	90				

Used and Useful Calculations
Wastewater Treatment Plant

FPSC

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-6
Page 1 of 4
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Line No.		LAKE GROVES	
1	(A) Used and useful flow, GPD		
2	AADF	547,022	
	Less: Excessive I&I (from Sch. F-6, page 2)	0	
	Net Used and useful flow, GPD	547,022	
3	(B) Property needed for post test year period (See F-8)	174,004	
4	(C) Permitted capacity	999,000	
5	(D) Used and useful percentage	72.00	%
6	(D1)	100.00	%
7	(E) Non-used and useful percentage	28.00	%
8	(E1)	0.00	%

The above used and useful percentage is applicable to Treatment and Disposal accounts except reuse accounts. All Reuse, Pumping, Intangible and General Plant is considered 100% Used & Useful.

Used and Useful Calculations
Wastewater Treatment Plant

FPSC

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-6
Page 2 of 4
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

LAKE GROVES

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
1	6	0	0.000	0	
2	8	156,126	29.569	118,277	
3	10	0	0.000	0	
4	Total	156,126	29.569	118,277	43,171,205
5	Estimated Inflow @ 10% of flows (l.8)				18,628,436
6	Allowable I&I				61,799,641

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			199,663,000
	Water Gallons used by WW cust.		Estimated returned *	
8	Residential WW	490,222,001	38%	186,284,360
	Non Res WW	24,920,390	90%	22,428,351
9	Estimated flows returned	515,142,391		208,712,711

*** Homes & common areas are heavily landscaped and the soil is very porous, like sugar sand. From F-10, average water use is 10,370 per month per SFR, up from 8944 per month in the last case. Assuming just 4,000 gallons per mo per SFR for basic water, 4,000/10,370 equates to a 38% return ro wasterwater. In the last case it was 48% and the case before that, 30% return.**

10	Estimated I&I (treated less returned) [l.7-l.9]	-9,049,711
11	Actual less allowable [l.10-l.6]	-70,849,352
12	Excess, if any [l.10-l.6, if positive]	0
13	Excess as percent of wastewater treated	0.00%

Used and Useful Calculations
Wastewater Treatment Plant

FPSC

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-6
Page 3 of 4
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Line No.			BARRINGTON	
1	(A)	Used and useful flow, GPD		
2		AADF	23,197	
		Less: Excessive I&I (from Sch. F-6, page 2)	0	
		Net Used and useful flow, GPD	23,197	
3	(B)	Property needed for post test year period (See F-8)	0	
	(C)	Permitted capacity	49,000	
4	(C)	Usable Capacity	23,197	
		The agreement to purchase Barrington included the right of the trustee to use all the permitted capacity of the WWTP, rapid infiltration basins and lift station, present & future, not needed to serve Barrington Estates, which is utility service area. Therefore, the U&U of the capacity utilized by the utility is always 100%.		
5	(D)	Used and useful percentage	100.00	%
6	(D1)			%
7	(E)	Non-used and useful percentage	0.00	%
8	(E1)		0.00	%

The above used and useful percentage is applicable to Treatment and Disposal accounts except reuse accounts. All Reuse, Pumping, Intangible and General Plant is considered 100% Used & Useful.

Used and Useful Calculations
Wastewater Treatment Plant

FPSC

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-6
Page 4 of 4
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

BARRINGTON

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
1	6		0.000	0	
2	8	8,685	1.645	6,580	
3	10		0.000	0	
4	Total	8,685	1.645	6,580	2,401,534
5	Estimated Inflow @ 10% of flows (l.8)				1,919,460
6	Allowable I&I				4,320,995
	B. Actual Inflow & Infiltration (I&I)				
7	Wastewater treated				8,467,000
				Estimated returned *	
8	Water Gallons used by WW cust.		23,993,256	80%	19,194,605
9	Estimated flows returned				19,194,605
10	Estimated I&I (treated less returned) [l.7-l.9]				-10,727,605
11	Actual less allowable [l.10-l.6]				-15,048,599
12	Excess, if any [l.10-l.6, if positive]				0
13	Excess as percent of wastewater treated				0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities Inc. of Florida - Lake Utilities Services
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution & Wastewater Collection Systems

In Docke No. 100426-WS, the Commission found that all the water & wastewater distribution & collection mains are contributed to the Utility in all service areas, including Four Lakes & Lake Saunders, and should be considered 100% used and usef In Docket No. 20160101-Ws that conclusion was reaffirmed.

Margin Reserve Calculations - Historic

Florida Public Service Commission

Company: Utilities Inc. of Florida - Lake Utilities Services
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-8
Page 1 of 1
Preparer: Seidman, F.

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Water Source, Pumping, Treatment & Storage - Combined Excl. Four Lakes & Lake Saunders
PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (Sch. F-9)**	**442.86**	**ERCs/yr**
PT =	**Post test year period per statute**	**5**	**yrs**
U =	**Unit of measure utilized in U&U calculations (Sch. F-3, F-9)**	**671.52**	**max day gpd/ERC**
PN =	**Property needed expressed in U units**	**1,486,931**	**gpd**

NOTE: U = T/A, where:
T = TY Max Day gallons (from Sch. F-3)
A = TY Total ERCs (from Sch. F-9)

Water Source, Pumping, Treatment & Storage - Four Lakes & Lake Saunders

In Docket No. 100426-WS, the Commission found the Four Lakes and Lake Saunders system to be built with no growth. There is no growth margin.

Wastewater Treatment & Disposal
PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (Sch. F-10)**	**151.19**	**ERCs/yr**
PT =	**Post test year period per statute**	**5**	**yrs**
U =	**Unit of measure utilized in U&U calculations (Sch. F-2, F-10)**	**132.14**	**avg day gpd/ERC**
PN =	**Property needed expressed in U units**	**99,889**	**gpd**

NOTE: U = T/A, where:
T = TY treated gallons (from Sch. F-2)
A = TY Total ERCs (from Sch. F-10)

In addition, there are prepaid lots not served in 2019. New phases of development have opened up in the Lake Groves service area, of which 967 had not connected at the end of the 2019TY. During 2019, the average SFRs increased by 351 (from F-10.) LUSI indicates that they average 30 new taps per month in 2020, which is consistent with the past year growth.
At that rate, the prepaid connections will be connected within 3 years.
Regression analyses reflects a trend of only 151.19 ERCs growth per year. To better reflect actual new growth being experienced,adjust by (360-151.19) = 208.81 Ercs/yr for 2.69 yrs = 560.89 prepaid lots in the 5 year period.

		560.89	**prepaid lots**
	@	**132.14**	**gpd/ERC**
		74,115	**gpd**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-9
Page 1 of 3
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	9,601	9,904	9,753	1,205,523,153	123,612	1,304,373,114	10,552	
2	2016	9,904	9,996	9,950	1,293,894,884	130,040	1,496,336,662	11,507	9.05%
3	2017	9,996	10,144	10,070	1,332,731,220	132,347	1,415,864,120	10,698	-7.03%
4	2018	10,144	11,099	10,622	1,323,221,560	124,580	1,414,229,761	11,352	6.11%
5	2019	11,099	11,666	11,383	1,442,640,263	126,742	1,532,564,469	12,092	6.52%
						Average Growth Through 5-Year Period (Col. 8)			3.66%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y	Year
Constant:	10362.75378	1	10,552	2011 Actual
X Coefficient:	292.4903693	2	11,507	2012 Actual
R^2:	0.542719899	3	10,698	2013 Actual
		4	11,352	2014 Actual
		5	12,092	2015 Actual
		10	13,288	Hist TY + 5 yrs

HISTORIC

Five year growth per regression equation:	1,196 ERCs
Five year growth, simple average of 3.5%	2,214

As regression os poor fit, use simple average

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Utilities Services - Four Lakes
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-9
Page 2 of 3
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	67	68	68	5,994,400	88,806	5,994,400	68	
2	2016	68	71	70	6,128,743	88,183	6,128,743	70	2.96%
3	2017	71	70	71	6,495,700	92,138	6,495,700	71	1.44%
4	2018	70	71	71	5,631,340	79,877	5,631,340	71	0.00%
5	2019	71	71	71	5,458,150	76,875	5,458,150	71	0.71%
						Average Growth Through 5-Year Period (Col. 8)			1.28%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y	Year
Constant:	67.4	1	68	2011 Actual
X Coefficient:	0.80	2	70	2012 Actual
R^2:	0.82	3	71	2013 Actual
		4	71	2014 Actual
		5	71	2015 Actual
		10	75	Hist TY + 5 yrs

HISTORIC

Five year growth per regression equation: **4.40 ERCs**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Lake Utilities Services - Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-9
Page 3 of 3
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	40	39	40	2,284,430	57,834	2,284,430	40	
2	2016	39	42	41	2,572,130	63,509	2,572,130	41	2.53%
3	2017	42	42	42	2,252,461	53,630	2,252,461	42	3.70%
4	2018	42	43	43	2,322,380	54,644	2,322,380	43	1.19%
5	2019	43	45	44	2,699,060	61,342	2,699,060	44	3.53%
						Average Growth Through 5-Year Period (Col. 8)			2.74%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y	Year
Constant:	38.4	1	40	2011 Actual
X Coefficient:	1.1	2	41	2012 Actual
R^2:	0.983739837	3	42	2013 Actual
		4	43	2015 Actual
		5	44	2015 Actual
		10	49	Hist TY + 5 yrs

HISTORIC

Five year growth per regression equation: **5.40 ERCs**

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-10
Page 1 of 2
Preparer: Seidman, F.

LAKE GROVE PLANT

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	3,164	3,325	3,245	348,872,774	107,527	369,110,368	3,433	
2	2016	3,325	3,328	3,327	357,534,935	107,481	380,237,455	3,538	3.06%
3	2017	3,328	3,472	3,400	374,595,333	110,175	397,785,893	3,610	2.06%
4	2018	3,472	3,706	3,589	419,172,184	116,794	446,164,554	3,820	5.81%
5	2019	3,706	4,173	3,940	490,222,001	124,438	515,142,391	4,140	8.37%
						Average Growth Through 5-Year Period (Col. 8)			4.82%

NOTE: The above history of gallons is the gallons used by wastewater customers, not the gallons billed (and capped). Gallons billed was not used because there is not a history readily available. Also, gallons billed reflects an arbitrary cap and is not necessarily indicative of gallons treated.

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y	Year
Constant:	3199.209705	1	3,433	2011 Actual
X Coefficient:	169.6498757	2	3,538	2012 Actual
R^2:	0.918710328	3	3,610	2013 Actual
		4	3,820	2014 Actual
		5	4,140	2015 Actual
		10	4,896	Hist TY + 5 yrs

HISTORIC

Five year growth per regression equation: **756 ERCs**

Five year growth per 5% per year maximum **1,144 ERCs**

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities Inc. of Florida - Lake Utilities Services. Excl. Four Lakes & Lake Saunders
Docket No.: 20200139-WS
Historical Year Ended: December 31, 2019

Schedule F-10
Page 2 of 2
Preparer: Seidman, F.

BARRINGTON PLANT

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	N/A	N/A	N/A	N/A	N/A	N/A		
2	2016	N/A	N/A	N/A	N/A	N/A	N/A		
3	2017	N/A	N/A	N/A	N/A	N/A	N/A		
4	2018	N/A	N/A	N/A	N/A	N/A	N/A		
5	2019	148	148	148	23,993,256	162,117	23,993,256	148	
						Average Growth Through 5-Year Period (Col. 8)			0.00%

NOTE: LUSI took over operation in March, 2019. There is no data available for prior periods, however, this is a stable, residential community. Gallons reflected are 8 months actual, then annualized.

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y	Year
Constant:	-59.2	1	0	2011 Actual
X Coefficient:	29.6	2	0	2012 Actual
R^2:	0.5	3	0	2013 Actual
		4	0	2014 Actual
		5	148	2015 Actual
		10	237	Hist TY + 5 yrs

HISTORIC

Five year growth per regression equation: N/A ERCs

Five year growth per 5% per year maximum N/A ERCs

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

	(1)		(2)	(3)	(4)	(5)	(6)
Month/ Year	Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	Gallons Purchased	Gallons Sold	Other Uses (2)	Unaccounted For Water (1)+(2)-(3)-(4)	% Unaccounted For Water
Jan-19	3.678	3.627	0.000	3.069	0.021	0.538	14.8%
Feb-19	3.708	3.657	0.000	2.919	0.235	0.503	13.7%
Mar-19	4.834	4.767	0.000	2.977	0.018	1.772	37.2%
Apr-19	4.499	4.437	0.000	3.892	0.058	0.487	11.0%
May-19	5.751	5.672	0.000	3.551	0.021	2.099	37.0%
Jun-19	6.270	6.183	0.000	3.600	0.356	2.228	36.0%
Jul-19	4.227	4.169	0.000	4.314	0.206	-0.351	-8.4%
Aug-19	3.870	3.817	0.000	3.646	0.080	0.090	2.4%
Sep-19	4.491	4.445	0.000	2.926	0.030	1.490	33.5%
Oct-19	4.735	4.687	0.000	3.579	0.064	1.044	22.3%
Nov-19	4.167	4.124	0.000	4.008	0.153	-0.036	-0.9%
Dec-19	3.929	3.889	0.000	3.557	0.144	0.188	4.8%
Total	54.159	53.474	0.000	42.038	1.387	10.050	18.8%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Crownwood	(2) (Name)	(3) (Name)	(4) (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
	Individual Plant Flows					
Jan-19	0.875				0.875	0.000
Feb-19	0.675				0.675	0.000
Mar-19	0.710				0.710	0.000
Apr-19	0.785				0.785	0.000
May-19	0.696				0.696	0.000
Jun-19	0.439				0.439	0.000
Jul-19	0.588				0.588	0.000
Aug-19	0.762				0.762	0.000
Sep-19	0.528				0.528	0.000
Oct-19	0.515				0.515	0.000
Nov-19	0.494				0.494	0.000
Dec-19	0.564				0.564	0.000
Total	7.631	0.000			7.631	0.000

(Above data in millions of gallons)

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity** The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	Max Design Day per Sanitary Survey		636,000
		(Max Day Per CUP)		244,900
2	**Maximum Day** The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.		6/7/2019	582,000
3	**Five Day Max. Year** The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.	(1)	6/6/2019	380,000
		(2)	6/8/2019	382,000
		(3)	6/4/2019	395,000
		(4)	6/5/2019	580,000
		(5)	6/7/2019	582,000
			AVERAGE	463,800
			Max Month	206,116
4	**Average Daily Flow**		Annual	146,505
5	**Required Fire Flow** The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.		500 gpm for 2 hours	

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
1.	**Plant Capacity (Three Month Average Daily Flow (TMADF)**		**40,000**
	The hydraulic rated capacity. If different from that shown on the DER operating or construction permit, provide an explanation.		
2.	**Average Daily Flow Max Month (a)**	**Feb-19**	**24,107**
	Highest TMADF	**Mar-19**	**26,434**
	An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**740**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**290**	**gpm**
Ground storage capacity, gal.	**0**	**gallons**
Usable ground storage (90%), gal.	**0**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**10,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**0**	**gallons**
Maximum day demand,	**582,000**	**gpd**
Peak hour demand = 2x max day/1440	**808**	**gpm**
Fire flow requirement	**500**	**gpm**
Unaccounted for water **18.79% of water pumped**	**19.12**	**gpm**
Acceptable unaccounted for **10.00%**	**10.17**	**gpm**
Excess unaccounted for	**8.95**	**gpm**

Used & Useful Analysis, in accordance with Rule 25-30.4325:
No Usable Storage

Water Treatment Plant, no usable storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**808**	**gpm**
B =	**Property needed to serve five years after TY**	**5**	**gpm**
C =	**Fire flow demand**	**500**	**gpm**
D =	**Excess Unaccounted for water**	**9**	**gpm**
E =	**Firm Reliable Capacity**	**290**	**gpm**

The above used and useful factor is applicable to all source of supply, pumping, storage and treatment accounts, as well as the land and structures accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Line No.			
1	(A)	**Used and useful flow (000):**	
2		**3MADF - year 2019**	26,434
3	(B)	**Property needed for post test year period (see F-8)**	**4,942**
4	(C)	**Permitted capacity (3MADF)**	40,000
5	(D)	**Used and useful percentage**	**78.44%**
6	(E)	**Non-used and useful percentage**	**21.56%**

The above used and useful factor is applicable to all treatment and disposal plant accounts.

Used and Useful Calculations **Florida Public Service Commission**
Wastewater Treatment Plant

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood **Schedule F-6**
Docket No.: 20200139-WS **Page 2 of 2**
Test Year Ended: December 31, 2019 **Preparer: F. Seidman**

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
1	6	0	0.000	0	
2	8	3,451	0.654	2,614	
3	10	0	0.000	0	
4	Total	3,451	0.654	2,614	954,254
5	Estimated Inflow @ 10% of flows (l.10)				706,917
6	Allowable I&I				1,661,171

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			7,631,000
	Gallons Billed (not capped) to:		Estimated returned *	
8	SFR Residential WW cust.	2,053,879	80%	1,643,103
9	All Other	5,015,289	90%	4,513,760
10	Estimated flows returned	7,069,168		6,156,863
11	Estimated I&I (treated less returned) [l.7-l.10]			1,474,137
12	Actual less allowable [l.11-l.6]			-187,034
13	Excess, if any [l.11-l.6, if positive]			0
14	Excess as percent of wastewater treated			0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution & Wastewater Collection Systems

Used & useful was last set for this system in Docket No. 20160101-WS The water distribution and wastewater collection systems were found to be 100% used & useful. Circumstances have not significantly changed. The systems should remain at 100% used and useful.

Margin Reserve Calculations **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Water Pumping, Treatment & Storage

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs**	**0.66**	**ERCs/yr**
PT =	**Post test year period per statute**	**5**	**yrs**
U =	**Unit of measure utilized in U&U calculations.**	**1.54**	**gpm/ERC ***
PN =	**Property needed expressed in U units**	**5**	**gpm**

*** Based on the 2019 Peak Hour Demand (Sch. F-5) divided by 2015 ERCs (Sch F-9).**

Wastewater Treatment & Disposal

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs**	**10.87**	**ERCs/yr**
PT =	**Post test year period per statute**	**5**	**yrs**
U =	**Unit of measure utilized in U&U calculations. ***	**91**	**gpd/ERC**
PN =	**Property needed expressed in U units**	**4942**	**gpd**

*** Based on the 2019 TMADF (Sch. F-6) divided 2019 ERCs (Sch F-10).**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	488	491	490	41,295,220	84,362	43,976,890	521	
2	2016	491	490	491	46,310,680	94,415	50,049,450	530	1.69%
3	2017	490	496	493	45,580,988	92,456	49,322,918	533	0.64%
4	2018	496	499	498	40,364,882	81,135	43,347,682	534	0.15%
5	2019	499	491	495	39,730,560	80,264	42,037,570	524	-1.97%
						Average Growth Through 5-Year Period (Col. 8)			0.13%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	525.85073	1	521
X Coefficient:	0.907444891	2	530
R^2:	0.06094317	3	533
		4	534
		5	524
		10	535
Five year growth			11
Annual average			2

The Coefficient of determination - R^2 is weak. Use simple average growth rate:

Five year growth	3	Ercs
Annual average growth @ 0.85%	0.66	Ercs

Equivalent Residential Connections - Wastewater | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Marion -Golden Hills/Crownwood | **Schedule F-10**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	82	84	83	2,021,740	24,358	6,144,683	252	
2	2016	84	82	83	2,258,610	27,212	6,656,191	245	-3.04%
3	2017	82	86	84	2,302,780	27,414	6,790,304	248	1.26%
4	2018	86	85	86	2,273,480	26,590	7,068,739	266	7.32%
5	2019	85	84	85	2,053,879	24,306	7,069,168	291	9.40%
					Average Growth Through 5-Year Period (Col. 8)				3.74%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	230.73168	1	252
X Coefficient:	9.8384605	2	245
R^2:	0.6754389	3	248
		4	266
		5	291
		10	329
Five year growth			38
Annual average			8

The Coefficient of determination - R^2 is very weak. Use simple average growth rate:

Five year growth	54 Ercs
Annual average growth @ 1.13%	10.87 Ercs

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Mid-County
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Individual Plant Flows Mid-County	(2) (Name)	(3) (Name)	(4) (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
Jan-19	23.444				23.444	0.000
Feb-19	24.026				24.026	0.000
Mar-19	27.099				27.099	0.000
Apr-19	23.629				23.629	0.000
May-19	23.710				23.710	0.000
Jun-19	31.260				31.260	0.000
Jul-19	39.129				39.129	0.000
Aug-19	37.411				37.411	0.000
Sep-19	26.995				26.995	0.000
Oct-19	26.636				26.636	0.000
Nov-19	22.031				22.031	0.000
Dec-19	23.871				23.871	0.000
Total	329.241				329.241	0.000

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Mid-County **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
1.	**Permitted Plant Capacity (AADF)** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		**900,000**
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**	**Jul-19**	**1,262,226**

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Mid-County
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Line No.				
1	(A)	Used and useful flow, GPD (AADF)		902,030
2	(B)	Less: Excess I&I (No indication of excess I/I - see note))		-
3	(C)	Plus: Property needed for post test year period (See F-8)		46,770
4	(E)	Permitted capacity		900,000
5	(F)	Used and useful percentage		105.42%
6		See Note	Use	100.00%
7	(G)	Non-used and useful percentage		-5.42%
8		See Note	Use	0.00%

Note: Used & Useful Evaluation
In Docket No. 20160101-WS, Mid-County requested 100% U&U. There is virtually no growth in customers, although there is growth in demand as the charateristics of the customer base changes. The Order set U&U at 93.67% based on TY flows. In this case, calculated U&U exceeds 100%, partly due to a very wet year. U&U should be set at 100% and maintained at that level in coming years.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Mid-County
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 2 of 2
Preparer: Seidman, F.

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
	4	0	0.000	0	
1	6	2,020	0.383	1,148	
2	8	179,039	33.909	135,636	
3	10	0	0.000	0	
4	Total	181,059	34.291	136,783	49,925,917
5	Estimated Inflow @ 10% of gallons sold (L.10)				31,150,900
6	Allowable I&I				81,076,817

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			329,241,000
	Gallons Billed (not capped) to:		Estimated returned *	
8	SFR Residential WW cust.	145,839,000	80%	116,671,200
9	All Other	165,670,000	90%	149,103,000
10	Estimated flows returned	311,509,000		265,774,200
11	Estimated I&I (treated less returned) [L.7-L.10]			63,466,800
12	Actual I&I less allowable [L.11-L.6]			-17,610,017
13	Excess, if any [L.11-L.6, if positive]			0
14	Excess as percent of wastewater treated			0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Mid-County
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

This is a wastwater-only system.

Wastewater Collection System

The service area consists of many subdivisions as well as master metered areas. In general, the collection systems are built by the various developers and contributed to the utility. Only master feeders and lift stations that serve the system as a whole are built by the utility. There are still some pockets of undeveloped land, although they are now limited, and additional collection mains must be added before new customers can added. The collection system should be considered 100% used & useful and.

Margin Reserve Calculations

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Mid-County
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-8
Page 1 of 1
Preparer: Seidman, F.

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Wastewater Treatment & Related Facilities

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see F-10)**	**22**	**ERC/yr**
PT =	**Post test year period per statute**	**5**	**yrs**
U =	**Unit of measure utilized in U&U calculations**	**433**	**gpd/ERC, AADF ***
PN =	**Property needed expressed in U units**	**46,770**	**gpd**

*** Based on 2019 AADF divided by TY equivalent ERCs from Schedule F-10**

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Mid-County
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) Meter Equivalent ERCs Beginning Note A	(3) Meter Equivalent ERCs Ending Note A	(4) Meter Equivalent ERCs Average Note A	(5) SFR Gallons Sold Note A&B	(6) Gallons/ SFR (5)/(4) Note A&B	(7) Total Gallons Sold Note A&B	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	2,001	2,005	2,003	N/A	N/A	N/A	2,003	
2	2016	2,005	2,053	2,029	N/A	N/A	N/A	2,029	1.30%
3	2017	2,053	2,063	2,058	N/A	N/A	N/A	2,058	1.43%
4	2018	2,063	2,082	2,073	N/A	N/A	N/A	2,073	0.70%
5	2019	2,082	2,082	2,082	145,839,000	N/A	311,509,000	2,082	0.46%
						Average Growth Through 5-Year Period (Col. 8)			0.97%

NOTE A:
Billing information for this system must be obtained from the Pinellas County water utility. The county has indicated they do not keep historical consumption information, therefore the information needed to complete this schedule is not available. Mid-County has utilized the number of meter equivalents for the water meters as they appear in the annual reports at Schedule S-11. This appears to be the best indicator of growth.

NOTE B:
Note: TY Gallons per MFR Schedule E 14

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1988.45	1	2,003
X Coefficient:	20.15	2	2,029
R^2:	0.958006937	3	2,058
		4	2,073
		5	2,082
		10	2190

Five year growth	108 Ercs
Annual average growth	21.59 Ercs

NOTE A:
Billing information for this system must be obtained from the Pinellas County water utility. The county has indicated they do not keep historical consumption information, therefore the information needed to complete this schedule is not available. Mid-County has utilized the number of meter equivalents for the water meters as they appear in the annual reports at Schedule S-11. This appears to be the best indicator of growth.

NOTE B:
TY per MFR Schedule E 2:

	SFRs Beginning	SFRs Ending	SFRs Average	SFR Gallons Sold	Gallons/ SFR (5)/(4)	Total Gallons Sold
Actual TY	2100	2100	2100	130810	62,290	315998

Although historical information was not available,information for the test year was, and was used in developing MFR Schedule E 2 and is used in analyzing I&I in Schedule F 6, page 2.

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida -Crescent Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

	(1)		(2)	(3)	(4)	(5)	(6)
Month/ Year	Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	Gallons Purchased (1)(3) w/meter correction	Gallons Sold	Other Uses (2)	Unaccounted For Water (1)+(2)-(3)-(4)	% Unaccounted For Water
Jan-19	-	-	1.564	1.642	0.0001	-0.078	-5.0%
Feb-19	-	-	1.476	1.407	0.0001	0.069	4.7%
Mar-19	-	-	1.649	1.414	0.0026	0.232	14.1%
Apr-19	-	-	1.767	1.479	0.0023	0.286	16.2%
May-19	-	-	1.812	1.549	0.0001	0.264	14.5%
Jun-19	-	-	1.540	1.760	0.0001	-0.221	-14.3%
Jul-19	-	-	2.349	1.543	0.0001	0.806	34.3%
Aug-19	-	-	2.002	1.961	0.0001	0.041	2.0%
Sep-19	-	-	2.088	2.193	0.0001	-0.105	-5.0%
Oct-19	-	-	1.694	1.871	0.0001	-0.177	-10.4%
Nov-19	-	-	1.611	1.726	0.0001	-0.115	-7.1%
Dec-19	-	-	1.828	1.548	0.0001	0.279	15.3%
Total	-	-	21.380	20.091	0.006	1.283	6.0%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

(3) Treated water purchased from the Orlando Utilities Commission

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida -Crescent Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					Total Purch.
Month/ Year	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Sewage Treatment
Jan-19					0.000	0.000
Feb-19					0.000	0.000
Mar-19		Not Applicable - water only system			0.000	0.000
Apr-19					0.000	0.000
May-19					0.000	0.000
Jun-19					0.000	0.000
Jul-19					0.000	0.000
Aug-19					0.000	0.000
Sep-19					0.000	0.000
Oct-19					0.000	0.000
Nov-19					0.000	0.000
Dec-19					0.000	0.000
Total	**0.000**				**0.000**	**0.000**

Water Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -Crescent Heights **Schedule F-3**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		Date	GPD
1	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**	**Water Purchased *** **This Schedule not applicable**	
2	**Maximum Day** **The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.**		
3	**Five Day Max. Year** **The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.**		
4	**Average Daily Flow**		
5	**Required Fire Flow** **There is a single hydrant.**		

*** All water is purchased from Orland Utilities Commission (OUC).**

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -Crescent Heights **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - water only system		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Crescent Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

Not Applicable - all water purchased

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Crescent Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - water only system.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Crescent Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System
In Docket No. 20160101-WS, the system was found to br 100% U&U
Circumstances have not changed. The syrem remains 100% U&U.

Margin Reserve Calculations **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -Crescent Heights **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Not applicable. Used & useful was last set for this system in Docket No. 20160101-WS.
All water is purchased. The system was found to be built out and 100% U&U. Circumstances have not chan

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Crescent Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	261	266	264	17,131,538	65,015	17,436,268	268	
2	2016	266	266	266	18,441,192	69,328	18,993,762	274	2.16%
3	2017	266	270	268	18,982,534	70,830	19,377,364	274	-0.14%
4	2018	270	267	269	19,066,864	71,013	19,458,686	274	0.16%
5	2019	267	269	268	19,695,333	73,490	20,091,301	273	-0.23%
						Average Growth Through 5-Year Period (Col. 8)			0.49%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	269.4927143	1	268
X Coefficient:	1.044924997	2	274
R^2:	0.438002434	3	274
		4	274
		5	273
		10	280

Five year growth	7 Ercs
Annual average growth	1.31 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Crescent Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015								
2	2016	Not Applicable - water only system.							
3	2017								
4	2018								
5	2019								
					Average Growth Through 5-Year Period (Col. 8)				

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida -Davis Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased (1)(3)	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	-	-	0.357	0.327	0.0001	0.030	8.3%
Feb-19	-	-	0.363	0.298	0.0001	0.065	17.8%
Mar-19	-	-	0.319	0.353	0.0001	-0.035	-10.9%
Apr-19	-	-	0.352	0.342	0.0001	0.010	2.8%
May-19	-	-	0.329	0.326	0.0001	0.003	0.9%
Jun-19	-	-	0.282	0.444	0.0001	-0.162	-57.2%
Jul-19	-	-	0.405	0.324	0.0001	0.081	19.9%
Aug-19	-	-	0.278	0.330	0.0001	-0.051	-18.5%
Sep-19	-	-	0.310	0.404	0.0001	-0.094	-30.4%
Oct-19	-	-	0.274	0.308	0.0001	-0.033	-12.2%
Nov-19	-	-	0.250	0.314	0.0001	-0.064	-25.4%
Dec-19	-	-	0.282	0.297	0.0001	-0.015	-5.3%
Total	-	-	3.802	4.067	0.001	-0.266	-7.0%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

(3) Treated water is purchased from the Orange County. The quantity of water purchased is measured by the County with its own master meter. Sales are based on the utility meter readings. The discrepancy favors the customer.

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida -Davis Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					Total Purch.
Month/ Year	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Sewage Treatment
Jan-19					0.000	0.000
Feb-19					0.000	0.000
Mar-19		Not Applicable - water only system			0.000	0.000
Apr-19					0.000	0.000
May-19					0.000	0.000
Jun-19					0.000	0.000
Jul-19					0.000	0.000
Aug-19					0.000	0.000
Sep-19					0.000	0.000
Oct-19					0.000	0.000
Nov-19					0.000	0.000
Dec-19					0.000	0.000
Total	**0.000**				**0.000**	**0.000**

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -Davis Shores | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		Date	GPD
1	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**	**Water Purchased *** **This Schedule not applicable**	
2	**Maximum Day** **The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.**		
3	**Five Day Max. Year** **The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.**		
4	**Average Daily Flow**		
5	**Required Fire Flow**	**There is a single hydrant.**	

*** All water is purchased from Orland Utilities Commission (OUC).**

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -Davis Shores **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - water only system		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Davis Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

Not Applicable - all water purchased

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Davis Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - water only system.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Davis Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

Used & useful was last set for this system in Docket No. 20160101-WS.
The system remains 100% used & useful.

Margin Reserve Calculations **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -Davis Shores **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Not applicable. Used & useful was last set for this system in Docket No. 20160101-WS. All water is purchased. The system remains 100% U&U.

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida -Davis Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	44	43	44	3,718,120	85,474	3,718,120	44	
2	2016	43	44	44	3,790,180	87,131	3,790,180	44	0.00%
3	2017	44	45	45	4,036,130	90,700	4,036,130	45	2.30%
4	2018	45	45	45	3,443,510	76,522	3,443,510	45	1.12%
5	2019	45	46	46	4,067,210	89,389	4,067,210	46	1.11%
						Average Growth Through 5-Year Period (Col. 8)			1.13%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	42.75	1	44
X Coefficient:	0.55	2	44
R^2:	0.9453125	3	45
		4	45
		5	46
		10	48

Five year growth	3	Ercs
Annual average growth	0.55	Ercs

Equivalent Residential Connections - Wastewater | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -Davis Shores | **Schedule F-10**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015								
2	2016	Not Applicable - water only system.							
3	2017								
4	2018								
5	2019								
				Average Growth Through 5-Year Period (Col. 8)					

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (1)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19			4.778	2.794	1.262	0.721	15.1%
Feb-19			3.322	2.942	0.362	0.018	0.5%
Mar-19			3.065	2.555	0.033	0.477	15.6%
Apr-19			3.507	2.550	0.709	0.248	7.1%
May-19			4.690	2.241	2.234	0.215	4.6%
Jun-19			4.242	2.323	1.726	0.192	4.5%
Jul-19			4.443	2.042	1.749	0.652	14.7%
Aug-19			4.107	1.946	1.932	0.229	5.6%
Sep-19			4.704	1.943	2.361	0.400	8.5%
Oct-19			4.682	2.338	2.083	0.261	5.6%
Nov-19			3.182	2.336	0.607	0.239	7.5%
Dec-19			2.997	2.260	0.269	0.468	15.6%
Total	-	-	47.718	28.271	15.329	4.119	8.6%

(Above data in millions of gallons)

(1) Other Uses includes such uses as line breaks, flushing and water quality testing. Summertree purchases chloraminated waster from Pasco County. It does not hold its chlorine redual well at the system extremities, resulting in a high amount of flushing. Summertree is exploring a program to using chlorine dioxide in order to maintain residuals while reducing flushing and costs.

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					
	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Total Purch. Sewage Treatment
Jan-19					0.000	3.111
Feb-19					0.000	3.130
Mar-19					0.000	3.113
Apr-19					0.000	2.975
May-19					0.000	2.660
Jun-19					0.000	2.818
Jul-19					0.000	2.544
Aug-19					0.000	2.731
Sep-19					0.000	3.664
Oct-19					0.000	2.868
Nov-19					0.000	2.797
Dec-19					0.000	3.076
Total	0.000				0.000	35.487

All sewage pumped to Pasco County

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		Date	GPD
1	**Plant Capacity** — **Not Applicable - All water Purchased -** The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.		
2	**Maximum Day** — The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.		
	** All water is purchased from Orland Utilities Commission (OUC). Utility does submit an MOR, but readings are not daily.		
3	**Five Day Max. Year** — The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.	(1)	
		(2)	
		(3)	
		(4)	
		(5)	
		AVERAGE	
4	**Average Daily Flow**	Max Month	
		Annual	
5	**Required Fire Flow** — **(Mixed single & multi-family)** The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.		

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - all sewage pumped to Pasco County		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

Not Applicable - All water Purchased -

INPUT INFORMATION:

Total well pumping capacity, gpm		**gpm**
Firm Reliable well pumping capacity (largest well out), gpm		**gpm**
Ground storage capacity, gal.	0	**gallons**
Usable ground storage (90%), gal.	0	**gallons**
Elevated Storage	0	**gallons**
Usable ground storage (100%), gal.	0	**gallons**
Hydropneumatic storage capacity, gal.		**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	0	**gallons**
Total usable storage, gal.	0	**gallons**
Maximum day demand,	0	**gpd**
Peak hour demand = 2x max day/1440	0	**gpm**
Fire flow requirement		**gpd**
Unaccounted for water of water pumped		**gpm**
Acceptable unaccounted for 10.00%	0	**gpm**
Excess unaccounted for	0	**gpm**

Used & Useful Analysis, in accordance with Rule 25-30.4325:
No Usable Storage

Water Treatment Plant, no usable storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: #DIV/0!

A =	**Peak demand**	0	**gpm**
B =	**Property needed to serve five years after TY**	0	**gpm**
C =	**Fire flow demand**		**gpm**
D =	**Excess Unaccounted for water**	0	**gpm**
E =	**Firm Reliable Capacity**	0	**gpm**

The above used and useful factor is applicable to all source of supply, pumping, storage and treatment accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - all sewage pumped to Pasco County

The wastewater interconnection is considered to be 100% used & useful.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 2 of 2
Preparer: F. Seidman

SUMMERTREE PURCHASES

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
	4	0	0.000	0	
1	6	0	0.000	0	
2	8	37,851	7.169	28,675	
3	10	0	0.000	0	
4	Total	37,851	7.169	28,675	10,466,375
5	Estimated Inflow @ 10% of flows (l.10)				2,803,270
6	Allowable I&I				13,269,645

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated by Pasco County			35,487,000
	Gallons Billed (not capped) to:		Estimated returned *	
8	SFR Residential WW cust.	27,473,426	80%	21,978,741
9	All Other	559,270	90%	503,343
10	Estimated flows returned	28,032,696		22,482,084
11	Estimated I&I (treated less returned) [l.7-l.10]			13,004,916
12	Actual less allowable [l.11-l.6]			-264,728
13	Excess, if any [l.11-l.6, if positive]			0
14	Excess as percent of wastewater treated			0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

Used & useful was determined to be 100% U&U in Docket No. 20160101-WS.

The system remains 100% used & useful.

Margin Reserve Calculations **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Used & useful was determined to be 100% U&U in Docket No. 20160101-WS.
The system remains 100% used & useful.

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,161	1,167	1,164	26,377,016	22,661	27,357,926	1,207	
2	2016	1,167	1,182	1,175	26,878,054	22,885	28,239,484	1,234	2.21%
3	2017	1,182	1,186	1,184	26,454,270	22,343	27,466,220	1,229	-0.38%
4	2018	1,186	1,177	1,182	27,091,769	22,930	27,856,399	1,215	-1.18%
5	2019	1,177	1,198	1,188	27,473,426	23,136	28,270,938	1,222	0.59%
						Average Growth Through 5-Year Period (Col. 8)			0.31%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1218.41007	1	1,207
X Coefficient:	1.022426511	2	1,234
R^2:	0.022566641	3	1,229
		4	1,215
		5	1,222
		10	1229

Five year growth	7 Ercs
Annual average growth	1.33 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Summertree
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,161	1,167	1,164	26,377,016	22,661	27,184,926	1,200	
2	2016	1,167	1,182	1,175	26,878,054	22,885	28,075,714	1,227	2.27%
3	2017	1,182	1,186	1,184	26,454,270	22,343	27,338,530	1,224	-0.27%
4	2018	1,186	1,177	1,182	27,091,769	22,930	27,720,349	1,209	-1.20%
5	2019	1,177	1,198	1,188	27,473,426	23,136	28,032,696	1,212	0.23%
						Average Growth Through 5-Year Period (Col. 8)			0.26%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1212.293819	1	1,200
X Coefficient:	0.612070118	2	1,227
R^2:	0.007591469	3	1,224
		4	1,209
		5	1,212
		10	1218

Five year growth	7 Ercs
Annual average growth	1.35 Ercs

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	5.911	5.907	0.000	7.009	0.013	-1.115	-18.9%
Feb-19	5.506	5.502	0.000	6.649	0.019	-1.166	-21.2%
Mar-19	5.981	6.005	0.000	5.805	0.020	0.180	3.0%
Apr-19	5.675	5.705	0.000	6.072	0.012	-0.379	-6.7%
May-19	6.049	5.761	0.000	6.430	0.019	-0.688	-11.9%
Jun-19	6.474	6.803	0.000	6.158	0.031	0.614	9.0%
Jul-19	7.327	7.361	0.000	5.683	0.013	1.666	22.6%
Aug-19	7.079	7.116	0.000	6.255	0.031	0.830	11.7%
Sep-19	6.676	6.712	0.000	5.807	0.020	0.885	13.2%
Oct-19	6.495	6.532	0.000	5.572	0.017	0.943	14.4%
Nov-19	6.409	6.446	0.000	5.804	0.022	0.619	9.6%
Dec-19	6.646	6.694	0.000	5.354	0.023	1.317	19.7%
Total	76.229	76.544	0.000	72.599	0.239	3.706	4.8%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					Total Purch.
Month/ Year	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Sewage Treatment
Jan-19					0.000	0.421
Feb-19					0.000	0.406
Mar-19					0.000	0.365
Apr-19					0.000	0.340
May-19					0.000	0.312
Jun-19					0.000	0.343
Jul-19					0.000	0.500
Aug-19					0.000	0.737
Sep-19					0.000	0.753
Oct-19					0.000	0.366
Nov-19					0.000	0.347
Dec-19					0.000	0.365
Total	0.000				0.000	5.256

(Above data in millions of gallons)

Wastewater collection is provide to the Wis-Bar area only, and is pumped to Pasco County for treatment & disposal.

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity**			
	The hydraulic rated capacity. If different from that shown	**(Max day per CUP)**		**346,000**
	on the DEP operating or construction permit, provide an explanation.	**(Ann. Average day per CUP)**		**260,000**
		Design Capacity per Sanitary Survey		**1,240,000**
2	**Maximum Day**			
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.		**7/18/2019**	**298,000**
3	**Five Day Max. Year**			
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.	**(1)**	**7/3/2019**	**265,300**
		(2)	**7/16/2019**	**276,600**
		(3)	**7/19/2019**	**281,000**
		(4)	**7/6/2019**	**282,500**
		(5)	**7/18/2019**	**298,000**
			AVERAGE	**280,680**
			Max Month	**237,456**
4	**Average Daily Flow**		**Annual**	**209,710**
5	**Required Fire Flow**		**500 gpm for 2 hours**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Wastewater collection is provided to the Wis-Bar area only, and is pumped to Pasco County for treatment & disposal.		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations | **Florida Public Service Commission**
Water Treatment Plant
Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar

Schedule F-5
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**919**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**678**	**gpm**
Ground storage capacity, gal.	**0**	**gallons**
Usable ground storage (90%), gal.	**0**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**38,870**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**0**	**gallons**
Maximum day demand,	**298,000**	**gpd**
Peak hour demand = 2x max day/1440	**414**	**gpm**
Fire flow requirement **500 gpm for 2 hours**	**60,000**	**gpd**
Unaccounted for water **4.84% of water pumped**	**7**	**gpm**
Acceptable unaccounted for **10.00%**	**0**	**gpm**
Excess unaccounted for	**7**	**gpm**

Used & Useful Analysis, in accordance with Rule 25-30.4325:

Water Treatment Plant, no usable storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A = **Peak demand**	**414**	**gpm**
B = **Property needed to serve five years after TY**	**0**	**gpm**
C = **Fire flow demand**	**500**	**gpm**
D = **Excess Unaccounted for water**	**7**	**gpm**
E = **Firm Reliable Capacity**	**678**	**gpm**

The above used and useful factor is applicable to all source of supply, pumping, storage and treatment accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - wastewater service purchased from Pasco County.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar
Docket No.: 20200139-WS
Test Year Ended: December 31, 2011

Schedule F-6
Page 2 of 2
Preparer: F. Seidman

ORANGEWOOD (WIS-BAR)

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
	4	0	0.000	0	
1	6	0	0.000	0	
2	8	5,265	0.997	3,989	
3	10	0	0.000	0	
4	Total	5,265	0.997	3,989	1,455,852
5	Estimated Inflow @ 10% of flows (l.10)				388,108
6	Allowable I&I				1,843,960

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated (purchased)			5,256,224

	Gallons Billed (not capped) to:		Estimated returned *	
8	SFR Residential WW cust.	3,812,374	80%	3,049,899
9	All Other	68,708	90%	61,837
10	Estimated flows returned	3,881,082		3,111,736

11	Estimated I&I (treated less returned) [l.7-l.10]	2,144,488
12	Actual less allowable [l.11-l.6]	300,527
13	Excess, if any [l.11-l.6, if positive]	300,527
14	Excess as percent of wastewater treated	5.72%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service C

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution and Collection Systems

Used & useful was last set for this system in Docket No. 20160101-WS and found to be 100% U&U. The system remains 100% used & useful.

Margin Reserve Calculations **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Not applicable. Used & useful was last set for this system in Docket Nos. 20160101-WS.
All water is purchased. The system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,664	1,685	1,675	55,082,893	32,895	60,929,574	1,852	
2	2016	1,685	1,705	1,695	57,536,546	33,945	63,984,710	1,885	1.77%
3	2017	1,705	1,694	1,700	57,934,664	34,089	65,027,191	1,908	1.20%
4	2018	1,694	1,688	1,691	61,852,580	36,578	71,644,399	1,959	2.68%
5	2019	1,688	1,694	1,691	62,900,582	37,197	72,599,310	1,952	-0.36%
						Average Growth Through 5-Year Period (Col. 8)			1.32%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	1829.215976
X Coefficient:	27.27418655
R^2:	0.920883146

X	Y
1	1,852
2	1,885
3	1,908
4	1,959
5	1,952
10	2102

Five year growth	150 Ercs
Annual average growth	30.04 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - UIF - Pasco - Orangewood, Buena Vista, Wis-Bar
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	160	158	159	3,622,137	22,781	3,721,347	163	
2	2016	158	160	159	3,933,166	24,737	3,973,786	161	-1.66%
3	2017	160	159	160	3,912,825	24,532	3,944,345	161	0.09%
4	2018	159	154	157	4,250,845	27,162	4,353,335	160	-0.32%
5	2019	154	146	150	3,812,374	25,416	3,881,082	153	-4.72%
						Average Growth Through 5-Year Period (Col. 8)			-1.65%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	166.0533383
X Coefficient:	-2.167206939
R^2:	0.727110626

X	Y
1	163
2	161
3	161
4	160
5	153
10	144

Five year growth	(8) Ercs
Annual average growth	-1.66 Ercs

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	9.551	9.348	0.000	7.981	0.002	1.364	14.6%
Feb-19	9.189	8.984	0.000	8.121	0.022	0.842	9.4%
Mar-19	12.070	11.752	0.000	10.225	0.024	1.504	12.8%
Apr-19	11.593	11.280	0.000	9.953	0.023	1.304	11.6%
May-19	13.545	13.179	0.000	12.202	0.061	0.917	7.0%
Jun-19	11.871	11.550	0.000	11.326	0.008	0.217	1.9%
Jul-19	11.045	10.747	0.000	11.834	0.001	-1.089	-10.1%
Aug-19	8.975	8.733	0.000	7.540	0.004	1.188	13.6%
Sep-19	11.677	11.362	0.000	10.115	0.006	1.240	10.9%
Oct-19	13.138	12.783	0.000	11.670	0.005	1.108	8.7%
Nov-19	11.482	11.172	0.000	10.730	0.000	0.442	4.0%
Dec-19	10.097	9.824	0.000	10.455	0.003	-0.633	-6.4%
Total	134.233	130.714	0.000	122.151	0.159	8.404	6.4%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) Individual Plant Flows Pennbrooke	(2) Individual Plant Flows (Name)	(3) Individual Plant Flows (Name)	(4) Individual Plant Flows (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
Jan-19	1.928				1.928	0.000
Feb-19	1.772				1.772	0.000
Mar-19	2.166				2.166	0.000
Apr-19	1.905				1.905	0.000
May-19	1.638				1.638	0.000
Jun-19	1.539				1.539	0.000
Jul-19	1.666				1.666	0.000
Aug-19	2.240				2.240	0.000
Sep-19	1.759				1.759	0.000
Oct-19	1.766				1.766	0.000
Nov-19	1.833				1.833	0.000
Dec-19	1.996				1.996	0.000
Total	22.208				22.208	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-3
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

				Date	GPD
1	**Plant Capacity**				
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanati	**Max Day per Sanitary Survey**			**864,000**
		Annual Average per CUP			**454,000**
2	**Maximum Day**				
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.			**5/31/2019**	**716,000**
3	**Five Day Max. Year**				
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.		**(1)**	**5/26/2019**	**530,000**
			(2)	**5/22/2019**	**542,000**
			(3)	**5/25/2019**	**543,000**
			(4)	**5/29/2019**	**605,000**
			(5)	**5/31/2019**	**716,000**
				AVERAGE	**587,200**
4	**Average Daily Flow**			**Max Month**	**425,135**
				Annual	**358,120**
5	**Required Fire Flow [Lake County Code]**			**1200 gpm x 2 hrs**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Pennbrooke | **Schedule F-4**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
1.	**Plant Capacity (Permitted @ AADF)** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		180,000
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		72,258
3.	**Annual Average Daily Flow**		60,844

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm		**2,050**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm		**1,000**	**gpm**
Ground storage capacity, gal.		**150,000**	**gallons**
Usable ground storage (90%), gal.		**135,000**	**gallons**
Elevated Storage		**0**	**gallons**
Usable ground storage (100%), gal.		**0**	**gallons**
Hydropneumatic storage capacity, gal.		**17,652**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.		**0**	**gallons**
Total usable storage, gal.		**135,000**	**gallons**
Maximum day demand,		**716,000**	**gpd**
Peak hour demand = 2x max day/1440		**994**	**gpm**
Fire flow requirement	**1200 gpm for 2 hours**	**144,000**	**gpd**
Unaccounted for water	**6.43% of water pumped**	**1,945**	**gpd, avg**
Acceptable unaccounted for	**10.00%**	**3,018**	**gpd, avg**
Excess unaccounted for		**0**	**gpd, avg**

Used & Useful Analysis, in accordance with Rule 25-30.4325:

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **89.58%**
Use: **100.00%**

In Docket No. 20160101-WS, the Commission founf this system to be 100% U&U based on actual 2015 flows.
The number of ERC's has remained virtually unchanged, but peak fay demand has dropped by 16%, from 894 kgpd to 716.
Consistent with PSC policy and rules, U&U should remain 100% to reflect reduced demand due to repression and conservation.

A =	**Peak demand**	**716,000**	**gpd**
B =	**Property needed to serve five years after TY**	**0**	**gpd**
C =	**Fire flow demand**	**144,000**	**gpd**
D =	**Excess Unaccounted for water**	**0**	**gpd**
E =	**Firm Reliable Capacity (16 hours)**	**960,000**	**gpd**

The above used and useful factor is applicable to all source of supply, pumping and treatment accounts.

Storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**716,000**	**gallons**
B =	**Property needed to serve five years after TY**	**0**	**gallons**
C =	**Fire flow demand**	**144,000**	**gallons**
D =	**Excess Unaccounted for water**	**0**	**gallons**
E =	**Firm Reliable Capacity**	**135,000**	**gallons**

The above used and useful factor is applicable to the distribution reservoir accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Line No.				
1	(A) Used and useful flow, GPD (AADF)			60,844
2	(B) Less: Excess I&I (No indication of excess I/I - see note))			-
3	(C) Plus: Property needed for post test year period (See F-8)			-
4	(E) Permitted capacity			180,000
5	(F) Used and useful percentage			**33.80%**
6		**System essentially built out (F-7),**	**Use**	**100.00%**
7	(G) Non-used and useful percentage			**66.20%**
8		**System essentially built out (F-7),**	**Use**	**0.00%**

Note: Used & Useful Evaluation
In Docket No. 20160101-WS, and in the previous four dockets, the Commission evaluated used & useful in accordance with the factors outlined in Rule 25-30.432. F.A.C, and found it to be 100%.
The number of customers has remained virtually unchanged from 2005 forward.
The wastewater treated, including I&I, continues to drop, from a low 79 gpd/ERC in 2015 to 48 gpd/ERC i
There is no indication of I&I problems. Used & useful should remain at 100%.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 2 of 2
Preparer: Seidman, F.

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
	4	0	0.000	0	
1	6	0	0.000	0	
2	8	44,295	8.389	33,557	
3	10	0	0.000	0	
4	Total	44,295	8.389	33,557	12,248,239
5	Estimated Inflow @ 10% of gallons sold (L.10)				9,734,509
6	Allowable I&I				21,982,748

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			22,208,000
	Gallons Billed (not capped) to:		Estimated returned *	
8	SFR Residential WW cust.	95,411,931	80%	76,329,545
9	All Other	1,933,160	90%	1,739,844
10	Estimated flows returned	97,345,091		78,069,389

*** A substantial portion of water purchased is used for irrigation as is evident from the disparity between water gallons purchased and wastewater gallons treated.**

11	Estimated I&I (treated less returned) [L.7-L.10]	-55,861,389
12	Actual I&I less allowable [L.11-L.6]	-77,844,137
13	Excess, if any [L.11-L.6, if positive]	0
14	Excess as percent of wastewater treated	0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution & Wastewater Collection System

The service area is essentially built out. The distribution & collection systems should be considered 100% used & useful as they were in Docket Nos. 20160101-WS, 120037-WS and previous dockets.

Margin Reserve Calculations

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-8
Page 1 of 1
Preparer: Seidman, F.

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Not applicable - System is built out. See Docket Nos. 20160101-WS, 120037-WS and previous dockets.

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,218	1,227	1,223	103,670,894	84,802	130,036,753	1,533	
2	2016	1,227	1,234	1,231	117,035,211	95,112	149,130,782	1,568	2.25%
3	2017	1,234	1,231	1,233	100,861,974	81,835	131,803,862	1,611	2.72%
4	2018	1,231	1,234	1,233	95,792,887	77,722	121,228,490	1,560	-3.16%
5	2019	1,234	1,236	1,235	95,411,931	77,257	122,150,711	1,581	1.37%
						Average Growth Through 5-Year Period (Col. 8)			0.80%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	**1544.405229**
X Coefficient:	**8.719936337**
R^2:	**0.236294585**

X	Y
1	1,533
2	1,568
3	1,611
4	1,560
5	1,581
10	1632

Five year growth	**51**	**Ercs**
Annual average growth	**10.10**	**Ercs**

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Pennbrooke
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,218	1,227	1,223	103,670,894	84,802	105,711,344	1,247	
2	2016	1,227	1,234	1,231	117,035,211	95,112	118,301,511	1,244	-0.22%
3	2017	1,234	1,231	1,233	100,861,974	81,835	102,323,494	1,250	0.53%
4	2018	1,231	1,234	1,233	95,792,887	77,722	96,992,997	1,248	-0.19%
5	2019	1,234	1,236	1,235	95,411,931	77,257	97,345,091	1,260	0.97%
						Average Growth Through 5-Year Period (Col. 8)			0.27%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1240.424615	1	1,247
X Coefficient:	3.104986666	2	1,244
R^2:	0.62370263	3	1,250
		4	1,248
		5	1,260
		10	1271

Five year growth	11	Ercs
Annual average growth	2.29	Ercs

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	1.408	1.338	0.000	1.361	0.001	-0.024	-1.8%
Feb-19	1.505	1.430	0.000	1.395	0.001	0.034	2.4%
Mar-19	1.489	1.415	0.102	1.431	0.001	0.085	5.6%
Apr-19	1.453	1.380	0.000	1.383	0.001	-0.003	-0.2%
May-19	1.319	1.253	0.000	1.126	0.001	0.127	10.1%
Jun-19	1.056	1.003	0.000	1.202	0.025	-0.224	-22.3%
Jul-19	1.008	0.958	0.000	0.898	0.001	0.059	6.2%
Aug-19	0.941	0.894	0.006	0.906	0.001	-0.007	-0.8%
Sep-19	1.070	1.017	0.000	0.781	0.000	0.236	23.2%
Oct-19	1.198	1.138	0.000	0.975	0.001	0.163	14.3%
Nov-19	1.271	1.207	0.000	1.060	0.001	0.147	12.2%
Dec-19	1.371	1.302	0.000	1.331	0.001	-0.029	-2.2%
Total	15.089	14.335	0.108	13.847	0.031	0.565	3.9%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					
Month/ Year	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Total Purch. Sewage Treatment
Jan-19					0.000	0.000
Feb-19					0.000	0.000
Mar-19	Not Applicable - Water only system				0.000	0.000
Apr-19					0.000	0.000
May-19					0.000	0.000
Jun-19					0.000	0.000
Jul-19					0.000	0.000
Aug-19					0.000	0.000
Sep-19					0.000	0.000
Oct-19					0.000	0.000
Nov-19					0.000	0.000
Dec-19					0.000	0.000
Total	0.000				0.000	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

				Date	GPD
1	**Plant Capacity**				
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	MMAF per CUP			172,000
		Annual Average per CUP			84,300
2	**Maximum Day**				
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.			2/18/2019	78,000
				No reported incidents	
3	**Five Day Max. Year**				
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.		(1)	3/18/2019	59,500
			(2)	3/9/2019	61,000
			(3)	3/26/2019	61,000
			(4)	3/14/2019	65,000
			(5)	3/22/2019	67,000
	* 2/22 and 2/23 are a Sunday & Monday, read on Monday. Amounts shown = equal allocation. Experinced a main break on 2/22. Amounts shown are not adjusted for the break			AVERAGE	62,700
				Max Month	51,063
4	**Average Daily Flow**			Annual	39,273
5	**Required Fire Flow**			None	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - Water only system		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**500**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**0**	**gpm**
Ground storage capacity, gal.	**0**	**gallons**
Usable ground storage (90%), gal.	**0**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**10,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**0**	**gallons**
Maximum day demand,	**78,000**	**gpd**
Peak hour demand = 2x max day/1440	**108**	**gpm**
Fire flow requirement	**0**	**gpd**
Unaccounted for water **3.91% of water pumped**	**1**	**gpm**
Acceptable unaccounted for **10.00%**	**3**	**gpm**
Excess unaccounted for	**0**	**gpm**

Used & Useful Analysis, in accordance with Rule 25-30.4325:
No usable storage

Water Treatment Plant, no usable storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A = **Peak demand**	**108**	**gpm**
B = **Property needed to serve five years after TY**	**0**	**gpm**
C = **Fire flow demand**	**0**	**gpm**
D = **Excess Unaccounted for water**	**0**	**gpm**
E = **Firm Reliable Capacity**	**0**	**gpm**

The above used and useful factor is applicable to all source of supply, pumping, storage and treatment accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

NOT APPLICABLE - Water System Only

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

Used & useful was last set for this system in Docket No. 120160101-WS.

The water distribution system was found to be built out and 100% U&U. Circumstances have not changed.

The system remains 100% used & useful.

Margin Reserve Calculations **Florida Public Service Commission**

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Not applicable. Used & useful was last set for this system in Docket No. 20160101-WS.
All water is purchased. The system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	502	498	500	11,348,390	22,697	12,847,930	566	
2	2016	498	506	502	11,536,600	22,981	13,668,450	595	5.07%
3	2017	506	501	504	11,418,960	22,679	12,781,261	564	-5.25%
4	2018	501	501	501	11,801,910	23,557	13,731,490	583	3.43%
5	2019	501	509	505	11,498,860	22,770	13,847,440	608	4.33%
						Average Growth Through 5-Year Period (Col. 8)			1.90%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	561.4021059	1	566
X Coefficient:	7.229771143	2	595
R^2:	0.364289644	3	564
		4	583
		5	608
		10	634

Five year growth	26	Ercs
Annual average growth	5.11	Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida -UIF - Pinellas -Lake Tarpon
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015								
2	2016	Not Applicable - water only system.							
3	2017								
4	2018								
5	2019								
								Average Growth Through 5-Year Period (Col. 8)	

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: F. Seidman

Company: Utilities, Inc. of Florida - Tierra Verde
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1) (Name)	(2) (Name)	(3) (Name)	(4) (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment
		Individual Plant Flows				
Jan-19					0.000	8.817
Feb-19						9.193
Mar-19					0.000	8.638
Apr-19					0.000	8.991
May-19					0.000	8.996
Jun-19					0.000	9.841
Jul-19					0.000	10.456
Aug-19					0.000	13.445
Sep-19					0.000	9.432
Oct-19					0.000	11.721
Nov-19					0.000	10.299
Dec-19					0.000	6.852
Total	0.000				0.000	116.681

(Above data in millions of gallons)

All wastewater pumped to City of St. Petersburg for treatment and disposal.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Tierra Verde **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: F. Seidman**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	NOT APPLICABLE - ALL TREATMENT PURCHASED		
1.	**Plant Capacity**		
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.		
	DEP Permitted Capacity		
2.	**Annaual Average Daily Flow**		
	An average of the daily flows during the test year.		

Used and Useful Calculations
Wastewater Treatment Plant

FPSC

Company: Utilities, Inc. of Florida - Tierra Verde
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: F. Seidman

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

NOT APPLICABLE - ALL TREATMENT PURCHASED

1	(A)	Used and useful flow, GPD (AADF, 12 mo ending 6/30/05)		
2			0	
3	(B)	Less: Excess I&I	0	
4	(C)	Plus: Property needed for post test year period (See F-8)	0	
5	(D)	Total Flows	0	
6	(E)	Permitted capacity	0	
7	(F)	Used and useful percentage		%
8	(G)	Non-used and useful percentage		%

Used and Useful Calculations **FPSC**
Wastewater Treatment Plant

Company: Utilities, Inc. of Florida - Tierra Verde **Schedule F-6**
Docket No.: 20200139-WS **Page 2 of 2**
Test Year Ended: December 31, 2019 **Preparer: F. Seidman**

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
1	8	72,920	13.811	55,242	
2	10	0	0.000	0	
	12	0	0.000	0	
	15	0	0.000	0	
3	18	0	0.000	0	
4	Total	72,920	13.811	55,242	20,163,485
5	Estimated Inflow @ 10% of flows (l.10)				
6	Allowable I&I				

B. Calculation of Inflow & Infiltration (I&I)

7	Wastewater treated		116,681,203

	Gallons billed to WW cust. (1)		Estimated (2) returned
8	Residential	N/A	100%
	Multi-Units	N/A	100%
9	Commercial	N/A	100%
10	Estimated flows returned		

(1) - Treatment is providedby City of St. Petersburg. The City also provides water service. In prior cases, the City has provided information on water gallons sold so we could do an I&I analysis. The City no longer provides this service, therefore a direct estimate of I/I flows is not possible.

11	Estimated I&I (treated less returned) [l.7-l.10]	N/A
12	Actual less allowable [l.11-l.6]	N/A
13	Excess, if any [l.11-l.6, if positive]	N/A
14	Excess as percent of wastewater treated	N/A

The Tierra Verde service area is located entirely on a barrier island at the mouth of Tampa Bay. Ground water levels are always high, making the collection system more susceptible to I&I. In the TY 2007 case, the utility had found that the storm water systems of some of the condo developments were tied into the collection system. In addition, the Utility had found that I&I was entering the system from poorly constructed or damaged and abandoned developer lines. At that time, the City was treating 201.263 mg annually with 880 average SFRs and the estimated excess I/I flow was 29 mg (data was available then,). The Utilit initiated I&I studies, tracked down the masjor sources of I/I and continued to carry out maintenance and and repairs as needed. As a result, the City is now treating only 117.038 mg annually with an increase in average residential meter equivalents (from F-10), a reduction of 84 mg annually. This more than eliminates the 29 mg excess I/I found in 2007. It appears that the Utility has been effectively eliminationg excess I/I.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Tierra Verde
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: F. Seidman

Explanation: Provide all calculations, analyses and governmental requirements used to determine the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contribted or buil-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Wastewater Collection System

In Docket No. 080248-SU, Order No. PSC-09-0372-PAA-SU, the Commission found the wastewater collection system to be 100% used and useful because the collection system in place was needed to serve the current customers. Docket No. 20160101-WS confirmed this. There has been no change to the collection system. It should remain 100% used and useful.

Margin Reserve Calculations

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Tierra Verde
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-8
Page 1 of 1
Preparer: F. Seidman

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Wastewater Treatment & Related Facilities

Not Applicable - All sewage treatment service purchased from City of St. Petersburg.

Collection System
Not Applicable - System is built out. See Sch. F-7.

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Tierra Verde
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: F. Seidman

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) Meter Equivalent ERCs See Note Beginning	(3) Ending	(4) Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
2	2015	937	952	945	N/A	N/A	N/A	945	-
3	2016	952	943	948	N/A	N/A	N/A	948	0.32%
4	2017	943	948	946	N/A	N/A	N/A	946	-0.21%
5	2018	948	957	953	N/A	N/A	N/A	953	0.74%
6	2019	957	969	963	N/A	N/A	N/A	963	1.10%
					Average Growth Through 5-Year Period (Col. 8)				0.54%

NOTE: Water is supplied by the City of St. Petersburg. Wastewater customer pay a flat rate. The City no longer maintains historical records regarding the gallons used by class or in total. Therefore, the growth analysis above is based on the historical number of meters equivalents as shown in the Utility's annual report at Schedule S-11. Since the Utility purchases all treatment and disposal service and the collection system is 100% used and useful (Sch. 7), the growth factor is not relevant.

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	933.4	1	945
X Coefficient:	5.35	2	948
R^2:	0.77910854	3	946
		4	953
		5	963

Projection based on regression		
Projected 5 year growth past TY	**11**	**ERCs**
Average annual growth	**2.10**	**ERCs**
Projection based on averages		
Projected 5 year growth past TY	**26**	**ERCs**
Average annual growth	**5.24**	**ERCs**

Gallons of Wastewater Treated
In Thousands of Gallons

Utilities, Inc. of Florida - Sandalhaven
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DER.

Month/ Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Individual Plant Flows (000,000)				Total Plant	Purchased Sewage	Total Sewage
	N/A	N/A	N/A	N/A	Flows	Treatment *	Treatment
Jan-19					-	4.071	4.071
Feb-19					-	4.087	4.087
Mar-19					-	4.402	4.402
Apr-19					-	4.143	4.143
May-19					-	3.300	3.300
Jun-19					-	2.314	2.314
Jul-19					-	3.413	3.413
Aug-19					-	2.642	2.642
Sep-19					-	2.134	2.134
Oct-19					-	2.751	2.751
Nov-19					-	3.364	3.364
Dec-19	-				-	3.859	3.859
Total	-	-	-	-	-	40.480	40.480

*** Sewage treated by Englewood Water District (EWD)**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operat reports (MORs) sent to the Department of Environmental Regulation.

	MONTH	GPD
1. Purchased Capacity, Englewood Water District (EWD) (AADF)		**300,000**
2.		
Average Daily Flow Max Month -	**Mar, 2019**	**142,000**
Average Annual Daily Flow		**110,903**

An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Line No.				
		ALL FLOWS TO ENGLEWOOD WATER DISTRICT		
1	(A)	TY Flows to EWD, GPD, AADF	110,903	
2	(B)	Plus: Imputed flows to bring treated flows to level experienced in a prior year, 2010. See Note	43,947	
3	(C)	Total Flows to be Treated, GPD, AADF	154,850	
4	(D)	EWD Purchased Capacity, AADF	300,000	
5	(E)	Used and useful percentage	51.62	%
6	(F)	Non-used and useful percentage	48.38	%

Note: In Docket No. 20160101-WS, Order No. PSC-2019-0363-PAA-WS, the PSC determined U&U to be 42.24% based on actual flows for the 2015 TY of 138,285 gpd , adjusted for excess I&I. Flows in the 2019 TY have fallen to 110,903. The PSC typically defaults to a U&U based on the higher flows experienced in prior years so as to not penalize the utility for providing capacity previously needed. Based on that, the PSC should defer to the 2010 TY flow of 154,850 presented before Charlotte County. Sandalhaven requests those higher flows in determining U&U and recognize it as the default minimum going forward.

The above used and useful percentage is applicable to All Treatment & Disposal Accounts 355.4,354.4,380.4 & 389.4.

Recap Schedules: A-6, A-10, B-14

Used and Useful Calculations **Florida Public Service Commission**
Wastewater Treatment Plant

Utilities, Inc. of Florida - Sandalhaven **Schedule F-6**
Docket No.: 20200139-WS **Page 2 of 2**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Type	Main length feet	miles	Allowance @ 500 gpd/inch-dia.-mile gpd	
1	4		0	0.000	0	
	6	PVC	0	0.000	0	
2	6		0	0.000	0	
3	8	PVC	44,045	8.342	33,367	
4	10		0	0.000	0	
5	12		0	0.000	0	
6	15		0	0.000	0	
7	Total		44,045	8.342	33,367	12,179,110
8	Estimated Inflow @ 10% of flows sold (L.15)					3,649,900
9	Allowable I&I					15,829,010

B. Calculation of Actual Inflow & Infiltration (I&I)

10	Wastewater treated			40,479,756	F-2
	Water Gallons (not capped) sold to:		**Estimated returned ***		
11	Residential WW SFR	21,141,000	80%	16,912,800	F-10
14	General Service	15,358,000	90%	13,822,200	
15	Estimated flows returned	36,499,000	84%	30,735,000	F-10
16	Estimated I&I (treated less returned) [L.10-L.15]			9,744,756	
17	Actual less allowable [L.16-L.9]			-6,084,254	
18	Excess, if any [L.17, if positive]			0	
19	Excess as percent of wastewater treated			0.00%	
20	Excess as percent to be used for filing			0.00%	

*** - Notes:**

1. Residential flow returns at 90% are borne out by the capped residential flows of 17,284,000 and consistent with the flows used and accepted in Docket No. 060285-SU.
2. General Service flow returns at 96% is consistent with flows used and accepted in Docket No. 060285-SU.
4. These results are consistent with the NOTE above wherein little excess I&I was found after an investigation followed by repairs.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-6, A-10, B-14

This is a wastewater-only system.

Wastewater Collection System
The wastewater collection mains and lift stations within developments are contributed by the developers.
Under the circumstances, a used & useful analysis was not deemed necessary nor performed.
In Docket No. 20160101-WS, the PSC found the collection system to br 100% U&U.
The cirmstances have not changed. The system should still be considered 100% U&U.

Master 12 "Force Main and Associated Lift Station Transmission System
In Docket No. 20160101-WS, the PSC concluded that theat this tranmission system, being the sole meand of delivering flows to the Eenglewood Water District (EWD) for treatment is 100% U&U.

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-6, F-7

Wastewater Treatment & Related Facilities -
NOT APPLICABLE
All flows are now sent to the Englewood Water District (EWD for treatment and disposal.

The growth factor is determined according to the formula in Commission Rule 25-30.431:

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see E-6), capped @ 5%/yr**
PT =	**Post test year period per statute**
U =	**Unit of measure utilized in U&U calculations**
PN =	**Property needed expressed in U units**

The raw data produces negative growth and for reasons explained in Sch. F-10 is not representaive of ongoing demand.

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Utilities, Inc. of Florida - Sandalhaven
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERC's for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2011	725	769	747	19,758,000	26,450	50,204,000	1,898	
2	2012	769	757	763	19,141,000	25,087	48,368,000	1,928	1.58%
3	2013	757	764	761	19,657,000	25,847	42,970,000	1,662	-13.78%
4	2014	764	788	776	19,209,000	24,754	36,568,000	1,477	-11.14%
5	2015	788	793	791	21,141,000	26,744	36,499,000	1,365	-7.62%
					Average Growth Through 5-Year Period (Col.			1,608	-7.74%

Note: Above shows total sales (not capped) to WW Customers.

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y	
Constant:	**2121.350769**	-		
X Coefficient:	**-151.7430723**	**1**	**1,898**	**Actual**
R^2:	**0.925067974**	**2**	**1,928**	**Actual**
		3	**1,662**	**Actual**
		4	**1,477**	**Actual**
		5	**1,365**	**Actual**
		10	**604**	**Projected**
5 year growth			**(761)**	
Annual average growth			**(152)**	
Annual average growth @		**-7.74%**	**(106)**	

The substantial reduction in total gallons sold, even though SFR gallons and gallons/SFR are relatively stable, is more an indication of instability in MFD (included in General Service) occupancy than of growth patterns. Compare the pattern of change in total ERCs between 2012 and 2015 to that between 2007 and 2011.

2007	**6.48%**	**2012**	**1.58%**
2008	**11.99%**	**2013**	**-13.78%**
2009	**15.48%**	**2014**	**-11.14%**
2010	**12.42%**	**2015**	**-7.62%**
2011	**18.78%**		
Average	**13.03%**		**-7.74%**

When occupancy increases, so will total gallons sold and thus total ERCs.

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood)
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakage's and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the

Month/ Year	(1) Total Gallons Pumped Per MORs (1)	(2) Total Gallons Corrected for Meter Error (2)	(3) Gallons Purchased	(4) Gallons Sold	(5) Other Uses (3)	(6) Unaccounted For Water (1)+(2)-(3)-(4)	(7) % Unaccounted For Water
Jan-19	163.204	163.642	0.001	154.240	0.851	8.552	5.2%
Feb-19	146.469	144.781	0.083	127.052	2.778	15.034	10.4%
Mar-19	190.291	189.587	0.000	127.187	0.641	61.759	32.6%
Apr-19	186.910	188.481	0.000	147.717	0.529	40.234	21.3%
May-19	226.235	227.572	0.000	197.247	0.157	30.169	13.3%
Jun-19	193.929	192.927	0.000	205.933	0.237	-13.243	-6.9%
Jul-19	189.514	188.484	0.000	163.612	0.829	24.043	12.8%
Aug-19	166.897	165.772	0.006	146.622	0.759	18.397	11.1%
Sep-19	183.815	182.922	0.000	148.374	2.212	32.336	17.7%
Oct-19	178.665	177.747	0.000	173.698	0.349	3.700	2.1%
Nov-19	171.820	170.819	0.000	132.721	1.139	36.958	21.6%
Dec-19	159.417	158.348	0.002	156.222	0.262	1.866	1.2%
Total	2,157.167	2,151.082	0.092	1,880.626	10.743	259.805	12.1%

(Above data in millions of gallons)

(1) Sum of Des Pinar, Knollwood &Wekiva (including Longwood) Plants

(2) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(3) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood)
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

	(1)	(2)	(3)	(4)	(5)	(6)
Month/	Individual Plant Flows (000,000)				Total Plant	Total Purch. Sewage
Year	Wekiva	N/A	N/A	N/A	Flows	Treatment
Jan-19	59.867				59.867	-
Feb-19	55.572				55.572	-
Mar-19	52.198				52.198	-
Apr-19	46.289				46.289	-
May-19	56.844				56.844	-
Jun-19	63.143				63.143	-
Jul-19	63.306				63.306	-
Aug-19	75.897				75.897	-
Sep-19	58.352				58.352	-
Oct-19	63.876				63.876	-
Nov-19	60.259				60.259	-
Dec-19	56.490				56.490	-
Total	712.093	-	-	-	712.093	-

Water Treatment Plant Data **Florida Public Service Commission**

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood) **Schedule F-3**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		DATE		GPD
1. Plant Capacity				
Max Day Design Capacity per Sanitary Survey Reports				**17,925,000**
Maximum withdrawal per CUP, Annual average day				**10,098,000**
The hydraulic rated capacity. If different from that shown on the DER operating or construction permit, provide an explanation.				
2. Maximum Day		**5/26/19**		**10,998,100**
The single day with the highest pumpage rate for the test year. Explain, on a separate page, if fire flow, line-breaks or other unusual occurrences affected the flow this day.				
3. Five-Day Max Month	**(1)**	**5/27/19**		**8,589,900**
	(2)	**5/23/19**		**9,056,200**
The five days with the highest pumpage rate from the month with the highest	**(3)**	**5/29/19**		**9,292,200**
pumpage rate during the test year. Explain, on a separate page, if fire flow,	**(4)**	**5/30/19**		**10,783,800**
line-breaks or other unusual occurrences affected the flows on these days.	**(5)**	**5/26/19**		**10,998,100**
			AVERAGE	**9,744,040**
5. Average Daily Flow		**Max Month**		**7,341,039**
		Annual		**5,893,376**
6. Required Fire Flow		**1250 gpm for 2 hours**		
Seminole County requires 500 gpm residential & 1,250 commercial. ISO requires 2 hours up to 2,500 gpm				
The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.				

Wastewater Treatment Plant Data **Florida Public Service Commission**

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood) **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (DMRs) sent to the Department of Environmental Protection.

	Wekiva Plant only *	MONTH	GPD
1.	**Plant Capacity (AADF)**		**2,900,000**
	The hydraulic rated capacity. If different from that shown on the DER operating or construction permit, provide an explanation.		
2.	**Average Daily Flow Max Month**	**8/2019**	**2,448,290**
3	**Average Annual Daily Flow**		**1,950,940**
	An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.		

*** The Des Pinar plant was taken out of service in September, 2012. All flows diverted to Wekiva plant. This was necessary to meet reduced nutrient loading as mandated to protect the Wekiva River Basin. Because of the design of the Des Pinar plant it could not be modified to meet reduced nutrient limits.**

Used and Useful Calculations **Florida Public Service Commission**
Water Treatment Plant

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood) **Schedule F-5**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**
Revised:9/8/2014

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well capacity, gpm	**17,376**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**13,876**	**gpm**
Ground storage capacity, gal.	**3,475,000**	**gallons**
Usable ground storage (90%), gal.	**3,127,500**	**gallons**
Elevated Storage	**0**	**gallons**
Usable elevated storage	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**10,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**3,127,500**	**gallons**
Maximum day demand	**10,998,100**	**gpd**
Peak hour demand = 2 x maximum day/1440	**15,275**	**gpm**

3.	**Fire flow requirement**	**1250 gpm x 2 hours**	**150,000**	**gpd**
4.	**Unaccounted for water**	**12.08% of water pumped**	**711,796**	**gpd, avg**
	Acceptable unaccounted for	**10.00%**	**589,338**	**gpd, avg**
	Excess unaccounted for		**122,458**	**gpd, avg**

5. **Used & Useful Analysis in accordance with Rule 25-30.4325**

Water Treatment Plant

Percent Used & Useful = (A + B + C - D)/E x 100%, where:	**86.48%**
Used and useful percentage for rate case purposes (see note).	**100.00%**

Note: The capacity of this system has remained unchanged since bfeore 2010, although the demand varies, year to year. In Docket No. 20110257-WS and again in Docket 20160101-WS, actual demand and the rate growth growth resulted in a calculated 100% U&U. In Docket No. 201140060-WS, the calculated demand was less than 100%, but the Commission recognized U&U as 100%. Demand has decreased in recent years, most likely due to conservation and response to the changes in rates. The PSC should continue to recognize that impact and again find U&U to be 100%.

A =	**Peak demand**	**10,998,100**	**gpd**
B =	**Property needed to serve five years after TY**	**493,765**	**gpd**
C =	**Fire flow demand**	**150,000**	**gpd**
D =	**Excess unaccounted for water**	**122,458**	**gpd**
E =	**Firm Reliable Capacity (16 hours)**	**13,320,960**	**gpd**

The above used & useful factor is applicable to all source of supply, pumping and treatment accounts, as well as the land, structures accounts.

Storage Plant

Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**10,998,100**	**gallons**
B =	**Property needed to serve years after TY**	**493,765**	**gallons**
C =	**Fire flow demand**	**150,000**	**gallons**
D =	**Excess unaccounted for water**	**122,458**	**gallons**
E =	**Firm Reliable Capacity (Usable storage)**	**3,127,500**	**gallons**

The above used & useful factor is applicable to the reservoir & storage account,

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood)
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Line No.			
		Wekiva Plant	
1	(A)	Used and useful flow (000):	
2		AADF - year 2019	1,950,940
3	(B)	Property needed for post test year period (see F-8)	48,487
4	(C)	Permitted capacity	2,900,000
5	(D)	Used and useful percentage	68.95%
6	(E)	Non-used and useful percentage	31.05%
7	[F]	Used and useful percentage for rate case purposes (see note).	100.00%

NOTE: In Docket No. 900338-WS, the Commission recognized the expansion of plant capacity to its currenr level as a prudent economic decision resulting from DER requirements. In every case since then, the Commission has found the WWTP to be 100% used and useful. Th plant should continue to be found 100% used and useful.

All reuse related plant that can be separately identified in the accounts should be considered as 100% used & useful irrespective of the decision regarding the WWTP.

Recap Schedules: A-6, A-10, B-14

Used and Useful Calculations **Florida Public Service Commission**
Wastewater Treatment Plant

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood) **Schedule F-6**
Docket No.: 20200139-WS **Page 2 of 2**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd		
1	4	0	0.000	0		
2	6	1,461	0.277	830		
3	8	502,366	95.145	380,580		
4	10	45,681	8.652	43,259		
5	12	583	0.110	663		
6	15	0	0.000	0		
7	Total	550,091	104.184	425,331	155,245,975	
8	Estimated Inflow @ 10% of flows (L.14)				138,427,661	
9	Allowable I&I				293,673,636	

B. Calculation of Actual Inflow & Infiltration (I&I)

10	Wastewater treated			712,093,000	F-2
	Water Gallons (not capped) sold to:		Estimated returned *		
11	Residential WW SFR	1,149,059,246	54.4%	625,448,000	F-10
12	General Service	235,217,361	90%	211,695,625	F-10
14	Estimated flows returned	1,384,276,607		837,143,625	

15 * The SFRs served are heavily foliaged as evidenced by the fact that 50% of gallons used are in excess of the 10,000 per month billing cap. As well, the average monthly water use per WW customer is almost 12,000 gallons. Assuming non-irrigation use is 250 gpd/ERC, average monthly water treated is 250x365/12 = 7,604 gals. Estimated Res. Return at 7,000 level from E-14 billing analysis is 625,448,000.

16	Estimated I&I (treated less returned) [L.10-L.15]	-125,050,625
17	Actual less allowable [L.16-L.9]	-418,724,261
18	Excess, if any [L.17, if positive]	0
19	Excess as percent of wastewater treated	0.00%

Used and Useful Calculations **Florida Public Service Commission**
Water Distribution and Wastewater Collection Systems

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood) **Schedule F-7**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule

Distribution & Collection Systems

Distribution and collection lines serving customers are almost totally contributed. An allowance for property needed for growth is not necessary. This conclusion was also reached in Docket No. 900338-WS and Docket No. 110257-WS and reaffirmed in Docket No. 20160101-WS.

Margin Reserve Calculations **Florida Public Service Commission**

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood) **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5, F-6, F-7

Water Treatment & Related Facilities

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see F-9)**	**110**	**ERC/yr**	
PT =	**Post test year period per statute**	**5**	**yrs**	
U =	**Unit of measure utilized in U&U calculations**	**902**	**gpd/ERC**	****
PN =	**Property needed expressed in U units**	**493,765**	**gpd**	

**** MDD from F-5 divided by average ERCs from F-9.**

Wastewater Treatment & Related Facilities (Wekiva)

PN = EG x PT x U

where:

EG =	**Equivalent annual growth in ERCs (see F-9)**	**48**	**ERC/yr**	*****
PT =	**Post test year period per statute**	**5**	**yrs**	
U =	**Unit of measure utilized in U&U calculations**	**202**	**gpd/ERC**	****
PN =	**Property needed expressed in U units**	**48,487**	**gpd**	

**** AADF from F-6 divided by average ERCs from Schedule F-10.**

Distribution & Collection Systems

Distribution and collection lines serving customers are almost totally contributed. An allowance for property needed for growth is not necessary.

Equivalent Residential Connections - Water

Florida Public Service Commission

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood)
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) Ending	(4) Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	9,489	9,653	9,571	1,781,066,618	186,090	2,208,923,784	11,870	
2	2016	9,653	9,574	9,614	1,824,014,766	189,735	2,265,149,731	11,939	0.58%
3	2017	9,574	9,638	9,606	1,738,832,310	181,015	2,155,703,020	11,909	-0.25%
4	2018	9,638	9,636	9,637	1,466,115,545	152,134	1,869,883,109	12,291	3.21%
5	2019	9,636	9,673	9,655	1,488,787,420	154,207	1,880,625,534	12,195	-0.78%
						Average Growth Through 4-Year Period (Col. 8)			0.73%

Reconciliation: Col. 7 differs from Sch. E-2 by 12.6 MG or only .56%, which is inconsequential.

SFR customers and gallons do not include Multifamily customers.

Regression Analysis per Rule 25-30.431(2)(C)
For Treatment Related Facilities

		X	Y	
Constant:	**11739.90262**	**1**	**11,870**	**Actual**
X Coefficient:	**100.3114268**	**2**	**11,939**	**Actual**
R^2:	**0.701238497**	**3**	**11,909**	**Actual**
		4	**12,291**	**Actual**
		5	**12,195**	**Actual**
		10	**12,743**	**Projected**

Projected 5 year growth **548 ERCs**
Annual average growth **110**

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Utilities, Inc. of Florida - Sanlando (includes Knollwood, Des Pinar, Longwood)
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) Ending	(4) Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	7,963	8,067	8,015	1,359,475,839	169,616	1,615,766,910	9,526	
2	2016	8,067	7,995	8,031	1,393,886,984	173,563	1,653,562,863	9,527	0.01%
3	2017	7,995	8,011	8,003	1,325,606,820	165,639	1,575,974,998	9,515	-0.13%
4	2018	8,011	7,994	8,003	1,121,016,027	140,083	1,359,956,345	9,708	2.04%
5	2019	7,994	8,039	8,017	1,149,059,246	143,337	1,384,276,607	9,658	-0.52%
							Average Growth Through 5-Year Period (Col. 8)		0.46%

The gallons shown are the total used by WW customers, without the SFR use being limited by the 10k billing cap.
SFR customers and gallons do not include Multi-family customers.

Regression Analysis per Rule 25-30.431(2)(C)
For Treatment Related Facilities based on ERCs

		X	Y	
Constant:	**9453.456655**	**1**	**9,526**	**Actual**
X Coefficient:	**44.40742565**	**2**	**9,527**	**Actual**
R^2:	**0.619165003**	**3**	**9,515**	**Actual**
		4	**9,708**	**Actual**
		5	**9,658**	**Actual**
		10	**9,898**	**Projected**

Projected 5 year growth	**240**	**ERCs**
Annual average growth	**48**	

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Bear Lake
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased Corrected (1)	(3) Gallons Sold	(4) Other Uses (2)(3)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	0.898	0.907	0.350	1.243	0.018	-0.004	-0.3%
Feb-19	1.122	1.133	0.095	1.121	0.020	0.088	7.1%
Mar-19	1.526	1.541	0.000	1.243	0.018	0.281	18.2%
Apr-19	1.490	1.505	0.000	1.309	0.017	0.179	11.9%
May-19	1.687	1.702	0.000	1.478	0.018	0.206	12.1%
Jun-19	1.364	1.374	0.057	1.346	0.018	0.067	4.7%
Jul-19	1.350	1.360	0.038	1.277	0.020	0.101	7.3%
Aug-19	1.363	1.373	0.015	1.221	0.018	0.149	10.7%
Sep-19	1.532	1.543	0.000	1.434	0.017	0.092	6.0%
Oct-19	1.497	1.508	0.000	1.475	0.018	0.014	0.9%
Nov-19	1.456	1.467	0.000	1.219	0.018	0.230	15.7%
Dec-19	1.183	1.192	0.266	1.385	0.018	0.055	3.8%
Total	16.467	16.605	0.822	15.750	0.220	1.457	8.4%

(Above data in millions of gallons)

(1) The Utility does annual flow meter calibration, including the interrconnect meter. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Bear Lake
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					
	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Total Purch. Sewage Treatment
Jan-19					0.000	0.000
Feb-19					0.000	0.000
Mar-19		Not Applicable - water only system			0.000	0.000
Apr-19					0.000	0.000
May-19					0.000	0.000
Jun-19					0.000	0.000
Jul-19					0.000	0.000
Aug-19					0.000	0.000
Sep-19					0.000	0.000
Oct-19					0.000	0.000
Nov-19					0.000	0.000
Dec-19					0.000	0.000
Total	0.000				0.000	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Bear Lake | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

				Date	GPD
1	**Plant Capacity**				
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Max Day per Sanitary Survey**			**288,000**
		AADF per Cup			**79178**
2	**Maximum Day**				
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.			**5/192020**	**83,900**
3	**Five Day Max. Year**				
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.		**(1)**	**5/2/2020**	**66,600**
			(2)	**5/22/2020**	**70,100**
			(3)	**5/28/2020**	**80,500**
			(4)	**5/26/2020**	**83,300**
			(5)	**5/192020**	**83,900**
				AVERAGE	**76,880**
				Max Month	**54,893**
4	**Average Daily Flow**			**Annual**	**45,492**
5	**Required Fire Flow**			**None**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Bear Lake **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - water only system		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Bear Lake
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm		**220 gpm**
Firm Reliable well pumping capacity (largest well out), gpm		**0 gpm**
(System has only one well)		
Ground storage capacity, gal.		**13,800 gallons**
Usable ground storage (90%), gal.		**12,420 gallons**
Elevated Storage		**0 gallons**
Usable ground storage (100%), gal.		**0 gallons**
Hydropneumatic storage capacity, gal.		**3,000 gallons**
Usable hydropneumatic storage capacity (0.00%), gal.		**0 gallons**
Total usable storage, gal.		**12,420 gallons**
Maximum day demand,		**83,900 gpd**
Peak hour demand = 2x max day/1440		**117 gpm**
Fire flow requirement		**0 gpd**
Unaccounted for water	**8.36% of water pumped**	**3,992 gpd, avg**
Acceptable unaccounted for	**10.00%**	**4,774 gpd, avg**
Excess unaccounted for		**0 gpd, avg**

Used & Useful Analysis, in accordance with Rule 25-30.4325:

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**83,900 gpd**
B =	**Property needed to serve five years after TY**	**0 gpd**
C =	**Fire flow demand**	**0 gpd**
D =	**Excess Unaccounted for water**	**0 gpd**
E =	**Firm Reliable Capacity**	**0 gpd**

The above used and useful factor is applicable to all source of supply, pumping and treatment accounts.

Storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**83,900 gallons**
B =	**Property needed to serve five years after TY**	**0 gallons**
C =	**Fire flow demand**	**0 gallons**
D =	**Excess Unaccounted for water**	**0 gallons**
E =	**Firm Reliable Capacity**	**12,420 gallons**

The above used and useful factor is applicable to the distribution reservoir accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Bear Lake
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - water only system.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Bear Lake
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

In Docket No. 20160101-WS, U&U was raffirmed to be 100%.
The water distribution system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.

Margin Reserve Calculations | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Bear Lake | **Schedule F-8**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

**Not applicable. Used & useful was last set for this system in Docket No. 20160101-WS.
All water is purchased. The system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Bear Lake
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	214	213	214	14,779,300	69,224	15,133,600	219	
2	2016	213	214	214	15,272,034	71,532	15,789,964	221	0.97%
3	2017	214	217	216	14,396,039	66,803	14,854,109	222	0.73%
4	2018	217	207	212	15,088,400	71,172	15,773,010	222	-0.33%
5	2019	207	217	212	14,949,415	70,516	15,749,975	223	0.78%
						Average Growth Through 5-Year Period (Col. 8)			0.54%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	218.2331657
X Coefficient:	1.034795725
R^2:	0.828055316

X	Y
1	219
2	221
3	222
4	222
5	223
10	229

Five year growth	5 Ercs
Annual average growth	1.05 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Bear Lake
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015								
2	2016		Not Applicable - water only system.						
3	2017								
4	2018								
5	2019								
					Average Growth Through 5-Year Period (Col. 8)				

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs (1)	Total Gallons Corrected for Meter Error (2)	(2) Gallons Purchased (2)	(3) Gallons Sold	(4) Other Uses)(3)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	3.197	3.244	0.000	3.232	0.095	-0.083	-2.6%
Feb-19	3.018	3.047	0.001	2.824	0.089	0.135	4.4%
Mar-19	3.346	3.331	0.000	2.856	0.106	0.370	11.1%
Apr-19	3.440	3.425	0.001	3.251	0.095	0.079	2.3%
May-19	4.084	4.064	0.000	3.474	0.086	0.504	12.4%
Jun-19	3.487	3.470	0.001	3.572	0.094	-0.195	-5.6%
Jul-19	3.357	3.340	0.002	3.128	0.062	0.152	4.6%
Aug-19	3.426	3.417	0.002	3.174	0.087	0.158	4.6%
Sep-19	3.401	3.384	0.002	3.345	0.085	-0.044	-1.3%
Oct-19	3.376	3.359	0.001	3.195	0.096	0.069	2.0%
Nov-19	3.215	3.199	0.002	3.130	0.369	-0.299	-9.3%
Dec-19	3.202	3.186	0.009	3.050	0.069	0.076	0.0%
Total	40.550	40.468	0.021	38.233	1.334	0.921	2.3%

(Above data in millions of gallons)

(1) In matching to MORs, January & February, Ravenna & Phillips plants filed separately; after that , flows reported together.

(2) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(3) - Emergency Interconnect w. Lake Mary & Sanford

(4) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1)	(2) Individual Plant Flows (Name)	(3) (Name)	(4) (Name)	(5) Total Plant Flows	(6) Total Purch. Sewage Treatment*
Jan-19					0.000	2.861
Feb-19					0.000	2.121
Mar-19					0.000	2.090
Apr-19					0.000	1.930
May-19					0.000	1.863
Jun-19					0.000	1.783
Jul-19					0.000	1.041
Aug-19					0.000	1.364
Sep-19					0.000	2.556
Oct-19					0.000	1.349
Nov-19					0.000	0.837
Dec-19					0.000	0.392
Total	0.000				0.000	20.187

*** Bulk interconnect; all sewage treated by City of Sanford**

Water Treatment Plant Data **Florida Public Service Commission**
Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights

Schedule F-3
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

				Date	GPD
1	**Plant Capacity**				
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Max Day per San. Survey**			**360,000**
		AADF per CUP			**122,100**
2	**Maximum Day**				
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.			**5/27/2019**	**192,150**
3	**Five Day Max. Year (excluding flow from Crystal Lake)**				
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.		**(1)**	**5/1/2019**	**162,855**
			(2)	**5/29/2019**	**170,912**
			(3)	**5/23/2019**	**178,500**
			(4)	**5/26/2019**	**192,150**
			(5)	**5/27/2019**	**192,150**
				AVERAGE	**179,313**
				Max Month	**131,109**
4	**Average Daily Flow**			**Annual**	**110,870**
5	**Required Fire Flow**			**None**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**
Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights

Schedule F-4
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - Sewage treated by City of Sanford		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations **Florida Public Service Commission**
Water Treatment Plant
Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights

Schedule F-5
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

BASED ON COMBINED FLOWS FROM RAVENNA PARK and & PHILLIPS

INPUT INFORMATION:

Total well pumping capacity, gpm	**540**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**300**	**gpm**
Ground storage capacity, gal.	**105,000**	**gallons**
Usable ground storage (90%), gal.	**94,500**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**6,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**94,500**	**gallons**
Maximum day demand,	**192,150**	**gpd**
Peak hour demand = 2x max day/1440	**267**	**gpm**
Fire flow requirement	**0**	**gpd**
Unaccounted for water **2.28% of water pumped**	**2,524**	**gpd, avg**
Acceptable unaccounted for **10.00%**	**11,087**	**gpd, avg**
Excess unaccounted for	**0**	**gpd, avg**

Used & Useful Analysis, in accordance with Rule 25-30.4325:

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **66.72%**
Use: **100.00%**

Used & useful was set for this system in Docket Nos. 120209-WS. The system was found to be built out and 100% used & useful. This was reaffirmed in Docket No. 20160101-WS. Since the the last case, the Phillips distribution system has been interconnected., which provided the system the redundancy of another well. This benefits the utility by providing an alternative to having to supplement capacity through higher cost purchases from another system.
That addition results in reducing the calculated U&U below 100%. In Docket No. 20160101-WS, the Phillips system was evaluated separately and found to be 100% U&U as was the Ravenna system. Both were found to be built out. Now that thay are combined, it shoul not change the conclusion that the combined systems are built out and remain 100% used & useful.

A =	**Peak demand**	**192,150**	**gpd**
B =	**Property needed to serve five years after TY**	**0**	**gpd**
C =	**Fire flow demand**	**0**	**gpd**
D =	**Excess Unaccounted for water**	**0**	**gpd**
E =	**Firm Reliable Capacity (16 hours)**	**288,000**	**gpd**

The above used and useful factor is applicable to all source of supply, pumping and treatment accounts. as well as the land and structures accounts.

Storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**192,150**	**gallons**
B =	**Property needed to serve five years after TY**	**0**	**gallons**
C =	**Fire flow demand**	**0**	**gallons**
D =	**Excess Unaccounted for water**	**0**	**gallons**
E =	**Firm Reliable Capacity**	**94,500**	**gallons**

The above used and useful factor is applicable to the distribution reservoir accounts.

Used and Useful Calculations **Florida Public Service Commission**
Wastewater Treatment Plant
Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights

Schedule F-6
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

All treatment purchased -not applicable

Used and Useful Calculations **Florida Public Service Commission**
Wastewater Treatment Plant
Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights

Schedule F-6
Docket No.: 20200139-WS **Page 2 of 2**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

LINCOLN HEIGHTS

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy	
	4	0	0.000	0		
1	6	0	0.000	0		
2	8	14,049	2.661	10,643		
3	10	0	0.000	0		
4	Total	14,049	2.661	10,643		3,884,761
5	Estimated Inflow @ 10% of flows (l.10)					1,471,098
6	Allowable I&I					5,355,859

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			20,186,973
	Gallons Billed (not capped) to:		Estimated returned *	
8	SFR Residential WW cust.	13,022,330	84%	10,938,757
9	All Other	1,688,650	96%	1,621,104
10	Estimated flows returned	14,710,980		12,559,861

*** Based on reasoning in Order No. PSC-07-0505-SC-WS, p.51**

11	Estimated I&I (treated less returned) [l.7-l.10]	7,627,111
12	Actual less allowable [l.11-l.6]	2,271,252
13	Excess, if any [l.11-l.6, if positive]	2,271,252
14	Excess as percent of wastewater treated	11.25%

Used and Useful Calculations **Florida Public Service Commission**
Water Distribution and Wastewater Collection Systems

Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights **Schedule F-7**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

Used & useful was last set at 100% for this system in Docket No. 20160101-WS.

Margin Reserve Calculations **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Not Applicable
Used & useful was last set for this system at 100% in Docket No. 20160101-WS.
The combined systems are each built out and remain 100% used & useful.

Equivalent Residential Connections - Water **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights **Schedule F-9**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	586	594	590	34,662,623	58,750	36,684,633	624	
2	2016	594	601	598	36,172,525	60,540	38,637,955	638	2.21%
3	2017	601	599	600	35,179,781	58,633	37,559,021	641	0.37%
4	2018	599	605	602	34,678,427	57,605	36,913,867	641	0.04%
5	2019	605	608	607	36,487,289	60,160	38,233,399	636	-0.82%
						Average Growth Through 5-Year Period (Col. 8)			0.45%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	628.4711193	1	624
X Coefficient:	2.479632073	2	638
R^2:	0.335330673	3	641
		4	641
		5	636
		10	653

Five year growth	18 Ercs
Annual average growth	3.55 Ercs

Equivalent Residential Connections - Wastewater **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Combined Ravenna Park, Phillips, Lincoln Heights **Schedule F-10**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	230	234	232	12,888,970	55,556	14,903,330	268	
2	2016	234	236	235	13,294,040	56,570	15,723,740	278	3.61%
3	2017	236	237	237	12,998,420	54,962	15,359,810	279	0.54%
4	2018	237	234	236	12,604,091	53,521	14,615,621	273	-2.28%
5	2019	234	235	235	13,022,330	55,532	14,710,980	265	-2.99%
					Average Growth Through 5-Year Period (Col. 8)				-0.28%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	276.2027	1	268
X Coefficient:	-1.156546	2	278
R^2:	0.086914	3	279
		4	273
		5	265
		#	265

Five year growth	(0) Ercs
Annual average growth	-0.05 Ercs

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Jansen
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)(3)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	1.585	1.624	0.000	1.711	0.018	-0.105	-6.5%
Feb-19	1.416	1.439	0.000	1.287	0.012	0.140	9.8%
Mar-19	1.839	1.859	0.000	1.600	0.120	0.140	7.5%
Apr-19	1.669	1.684	0.000	1.659	0.018	0.008	0.5%
May-19	2.136	2.160	0.000	1.704	0.026	0.430	19.9%
Jun-19	1.831	1.851	0.000	1.871	0.036	-0.055	-3.0%
Jul-19	1.817	1.838	0.000	1.740	0.041	0.057	3.1%
Aug-19	1.729	1.749	0.000	1.654	0.020	0.075	4.3%
Sep-19	2.333	2.403	0.000	1.797	0.086	0.520	21.7%
Oct-19	2.212	2.283	0.000	1.747	0.083	0.453	19.9%
Nov-19	1.721	1.750	0.000	1.539	0.036	0.176	10.0%
Dec-19	1.709	1.731	0.000	1.727	0.017	-0.013	-0.7%
Total	21.996	22.371	0.000	20.034	0.511	1.826	8.2%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Jansen
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					
	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Total Purch. Sewage Treatment
Jan-19					0.000	0.000
Feb-19					0.000	0.000
Mar-19		Not Applicable - water only system			0.000	0.000
Apr-19					0.000	0.000
May-19					0.000	0.000
Jun-19					0.000	0.000
Jul-19					0.000	0.000
Aug-19					0.000	0.000
Sep-19					0.000	0.000
Oct-19					0.000	0.000
Nov-19					0.000	0.000
Dec-19					0.000	0.000
Total	0.000				0.000	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Jansen | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

				Date	GPD
1	**Plant Capacity**				
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Max Day Design per Sanitary Survey**			**309,600**
		AADF per Cup			**75,000**
2	**Maximum Day**				
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.			**1/9/2020**	**110,000**
3	**Five Day Max. Year**				
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.		**(1)**	**9/23/2020**	**92,200**
			(2)	**9/9/2020**	**95,600**
			(3)	**9/8/2020**	**95,700**
			(4)	**9/30/2020**	**100,200**
			(5)	**9/29/2020**	**100,300**
				AVERAGE	**96,800**
				Max Month	**77,509**
4	**Average Daily Flow**			**Annual**	**61,290**
5	**Required Fire Flow**			**None**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Jansen | **Schedule F-4**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - water only system		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations **Florida Public Service Commission**
Water Treatment Plant

Company: Utilities, Inc. of Florida - Seminole - Jansen **Schedule F-5**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**440**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm (System has only one well)	**190**	**gpm**
Ground storage capacity, gal.	**0**	**gallons**
Usable ground storage (90%), gal.	**0**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**6,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**0**	**gallons**
Maximum day demand,	**110,000**	**gpd**
Peak hour demand = 2x max day/1440	**153**	**gpm**
Fire flow requirement	**0**	**gpd**
Unaccounted for water 8.16% of water pumped	**3.47**	**gpm**
Acceptable unaccounted for 10.00%	**4.26**	**gpm**
Excess unaccounted for	**0**	**gpm**

Used & Useful Analysis, in accordance with Rule 25-30.4325:
No usable storage

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **80.41%**
Use: **100.00%**

The demand on the system continues at a decreased level. In Docket No. 120209-WS, the Commission recognized that the system is built out, is not oversized, and should be considered 100% used and useful. In Docket No. 20160101-WS U&U was confirmed to be 100%.

A =	**Peak demand**	**153**	**gpm**
B =	**Property needed to serve five years after TY**	**0**	**gpm**
C =	**Fire flow demand**	**0**	**gpm**
D =	**Excess Unaccounted for water**	**0**	**gpm**
E =	**Firm Reliable Capacity**	**190**	**gpm**

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Jansen
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - water only system.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Jansen
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

Used & useful was last set for this system in Docket No. 20160101-WS.
The water distribution system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.

Margin Reserve Calculations | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Jansen | **Schedule F-8**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

**Not applicable. Used & useful was last set for this system in Docket No. Docket No. 20160101-WS.
All water is purchased. The system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Jansen
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	250	251	251	18,870,518	75,331	18,948,868	252	
2	2016	251	251	251	19,707,570	78,516	19,825,250	252	0.38%
3	2017	251	253	252	18,834,120	74,739	18,893,130	253	0.12%
4	2018	253	249	251	18,818,520	74,974	18,872,330	252	-0.42%
5	2019	249	250	250	19,653,860	78,773	20,033,830	254	1.04%
						Average Growth Through 5-Year Period (Col. 8)			0.28%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	251.1381519
X Coefficient:	0.478598927
R^2:	0.465990824

X	Y
1	252
2	252
3	253
4	252
5	254
10	256

Five year growth	2 Ercs
Annual average growth	0.32 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Jansen
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015								
2	2016	Not Applicable - water only system.							
3	2017								
4	2018								
5	2019								
					Average Growth Through 5-Year Period (Col. 8)				

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)(3)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	0.288	0.285	0.000	0.303	0.002	-0.021	-7.3%
Feb-19	0.255	0.255	0.000	0.229	0.002	0.023	9.1%
Mar-19	0.320	0.328	0.000	0.250	0.023	0.056	16.9%
Apr-19	0.325	0.333	0.000	0.280	0.021	0.032	9.5%
May-19	0.380	0.389	0.000	0.334	0.026	0.029	7.4%
Jun-19	0.319	0.327	0.000	0.318	0.002	0.007	2.2%
Jul-19	0.313	0.320	0.000	0.266	0.004	0.050	15.6%
Aug-19	0.285	0.292	0.000	0.274	0.004	0.014	4.8%
Sep-19	0.298	0.305	0.000	0.250	0.003	0.051	16.8%
Oct-19	0.440	0.451	0.000	0.317	0.002	0.131	29.1%
Nov-19	0.475	0.483	0.000	0.233	0.020	0.230	47.7%
Dec-19	0.289	0.286	0.000	0.256	0.002	0.027	9.5%
Total	3.987	4.055	0.000	3.311	0.114	0.630	15.5%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					
	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Total Purch. Sewage Treatment
Jan-19					0.000	0.000
Feb-19					0.000	0.000
Mar-19		Not Applicable - water only system			0.000	0.000
Apr-19					0.000	0.000
May-19					0.000	0.000
Jun-19					0.000	0.000
Jul-19					0.000	0.000
Aug-19					0.000	0.000
Sep-19					0.000	0.000
Oct-19					0.000	0.000
Nov-19					0.000	0.000
Dec-19					0.000	0.000
Total	0.000				0.000	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity**			
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Max Day Design per Sanitary Survey**		**48,000**
		AADF per Cup		**24,000**
2	**Maximum Day**			
	The single day with the highest pumpage rate for the test year.		**10/22/2019**	**30,300**
	Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.		**Unexplained anomoly Use MMADF, below**	
3	**Five Day Max. Year**			
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.	**(1)**	**11/4/2019**	**24,300**
		(2)	**11/8/2019**	**24,300**
		(3)	**11/10/2019**	**24,900**
		(4)	**11/6/2019**	**25,600**
		(5)	**11/12/2019**	**29,200**
			AVERAGE	**25,660**
			Max Month	**16,097**
4	**Average Daily Flow**		**Annual**	**11,108**
5	**Required Fire Flow**		**None**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - water only system		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm		**100 gpm**
Firm Reliable well pumping capacity (largest well out), gpm (System has only one well)		**0 gpm**
Ground storage capacity, gal.		**0 gallons**
Usable ground storage (90%), gal.		**0 gallons**
Elevated Storage		**0 gallons**
Usable ground storage (100%), gal.		**0 gallons**
Hydropneumatic storage capacity, gal.		**1,500 gallons**
Usable hydropneumatic storage capacity (0.00%), gal.		**0 gallons**
Total usable storage, gal.		**0 gallons**
Maximum day demand,		**16,097 gpd**
Peak hour demand = 2x max day/1440		**22 gpm**
Fire flow requirement		**0 gpd**
Unaccounted for water	**15.54% of water pumped**	**1.2 gpm**
Acceptable unaccounted for	**10.00%**	**0.8 gpm**
Excess unaccounted for		**0.4 gpm**

Used & Useful Analysis, in accordance with Rule 25-30.4325:
No usable storage

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**22 gpm**
B =	**Property needed to serve five years after TY**	**0 gpm**
C =	**Fire flow demand**	**0 gpm**
D =	**Excess Unaccounted for water**	**0.4 gpm**
E =	**Firm Reliable Capacity**	**0 gpm**

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - water only system.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

Used & useful was last set for this system in Docket No. Docket No. 20160101-WS
The water distribution system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.

Margin Reserve Calculations | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva | **Schedule F-8**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

**Not applicable. Used & useful was last set for this system in Docket No. Docket No. 20160101-WS.
All water is purchased. The system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	60	61	61	3,419,754	56,525	3,419,754	61	
2	2016	61	62	62	3,492,390	56,787	3,492,390	62	1.65%
3	2017	62	61	62	3,395,665	55,214	3,395,665	62	0.00%
4	2018	61	61	61	3,423,051	56,116	3,423,051	61	-0.81%
5	2019	61	60	61	3,310,760	54,723	3,310,760	61	-0.82%
						Average Growth Through 5-Year Period (Col. 8)			0.01%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	61.15
X Coefficient:	-0.05
R^2:	0.025

X	Y
1	61
2	62
3	62
4	61
5	61
10	61

Five year growth	0 Ercs
Annual average growth	0.03 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Little Wekiva
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015								
2	2016		Not Applicable - water only system.						
3	2017								
4	2018								
5	2019								
					Average Growth Through 5-Year Period (Col. 8)				

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)(3)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	1.958	1.939	0.001	1.969	0.003	-0.033	-1.7%
Feb-19	1.781	1.763	-	1.624	0.003	0.136	7.7%
Mar-19	2.225	2.202	-	1.945	0.003	0.254	11.5%
Apr-19	2.256	2.233	0.001	2.259	0.004	-0.029	-1.3%
May-19	2.724	2.753	0.171	2.355	0.015	0.554	19.0%
Jun-19	2.415	2.508	-	2.468	0.006	0.034	1.3%
Jul-19	2.109	2.190	-	2.113	0.003	0.074	3.4%
Aug-19	2.039	2.118	0.004	2.084	0.003	0.035	1.6%
Sep-19	2.342	2.433	-	1.924	0.003	0.506	20.8%
Oct-19	2.715	2.820	0.067	2.382	0.003	0.501	17.4%
Nov-19	2.368	2.460	0.012	2.475	0.015	-0.019	-0.8%
Dec-19	1.972	2.048	-	2.336	0.003	-0.292	-14.3%
Total	26.905	27.466	0.256	25.935	0.067	1.720	6.2%

(Above data in millions of gallons)

*** Emergency interconnect with City of Altamonte Springs**

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					
	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Total Purch. Sewage Treatment
Jan-19					0.000	0.000
Feb-19					0.000	0.000
Mar-19		Not Applicable - water only system			0.000	0.000
Apr-19					0.000	0.000
May-19					0.000	0.000
Jun-19					0.000	0.000
Jul-19					0.000	0.000
Aug-19					0.000	0.000
Sep-19					0.000	0.000
Oct-19					0.000	0.000
Nov-19					0.000	0.000
Dec-19					0.000	0.000
Total	0.000				0.000	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

				Date	GPD
1	**Plant Capacity**				
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Max Day Design per Sanitary Survey**			**332,898**
		AADF per Cup			**96,877**
2	**Maximum Day**				
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.			**5/30/2019**	**163,400**
3	**Five Day Max. Year**				
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.		**(1)**	**5/29/2019**	**131,400**
			(2)	**5/26/2019**	**136,600**
			(3)	**5/27/2019**	**136,600**
			(4)	**5/23/2019**	**138,000**
			(5)	**5/30/3019**	**163,400**
				AVERAGE	**141,200**
				Max Month	**88,821**
4	**Average Daily Flow**			**Annual**	**75,249**
5	**Required Fire Flow**			* 600 gpm for 2 hours	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - water only system		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**300**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm	**0**	**gpm**
(System has only one well)		
Ground storage capacity, gal.	**16,800**	**gallons**
Usable ground storage (90%), gal.	**15,120**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**7,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**15,120**	**gallons**
Maximum day demand, with no incidents	**163,400**	**gpd**
Peak hour demand = 2x max day/1440	**227**	**gpm**
Fire flow requirement **600 gpm for 2 hours**	**72,000**	**gpd**
Unaccounted for water 6.21% **of water pumped**	**4,713**	**gpd**
Acceptable unaccounted for **10.00%**	**7,595**	**gpd**
Excess unaccounted for	**0**	**gpd**

Used & Useful Analysis, in accordance with Rule 25-30.4325:
No usable storage

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**163,400**	**gpd**
B =	**Property needed to serve five years after TY**	**0**	**gpd**
C =	**Fire flow demand**	**72,000**	**gpd**
D =	**Excess Unaccounted for water**	**0**	**gpd**
E =	**Firm Reliable Capacity**	**0**	**gpd**

Storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**163,400**	**gallons**
B =	**Property needed to serve five years after TY**	**0**	**gallons**
C =	**Fire flow demand**	**72,000**	**gallons**
D =	**Excess Unaccounted for water**	**0**	**gallons**
E =	**Firm Reliable Capacity**	**15,120**	**gallons**

The above used and useful factor is applicable to the distribution reservoir accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - water only system.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

Used & useful was last set for this system in Docket No. Docket No. 20160101-WS.
The water distribution system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.

Margin Reserve Calculations | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores | **Schedule F-8**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

**Not applicable. Used & useful was last set for this system in Docket No. 20160101-WS.
All water is purchased. The system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	210	211	211	20,155,370	95,750	21,021,570	220	
2	2016	211	212	212	22,378,150	105,807	24,020,310	227	3.40%
3	2017	212	210	211	21,525,960	102,019	23,193,530	227	0.14%
4	2018	210	210	210	23,356,720	111,222	25,098,370	226	-0.74%
5	2019	210	212	211	23,564,750	111,681	25,934,500	232	2.91%
						Average Growth Through 5-Year Period (Col. 8)			1.43%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	219.1630417
X Coefficient:	2.398357491
R^2:	0.695967316

X	Y
1	220
2	227
3	227
4	226
5	232
10	243

Five year growth	11 Ercs
Annual average growth	2.19 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Oakland Shores
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015								
2	2016	Not Applicable - water only system.							
3	2017								
4	2018								
5	2019								
					Average Growth Through 5-Year Period (Col. 8)				

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Park Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)(3)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	0.486	0.481	0.000	0.501	0.008	-0.028	-5.8%
Feb-19	0.475	0.469	0.000	0.416	0.008	0.045	9.6%
Mar-19	0.521	0.510	0.000	0.443	0.008	0.059	11.6%
Apr-19	0.519	0.508	0.000	0.466	0.008	0.035	6.9%
May-19	0.590	0.578	0.000	0.522	0.008	0.049	8.4%
Jun-19	0.592	0.580	0.000	0.521	0.008	0.051	8.7%
Jul-19	0.556	0.544	0.000	0.490	0.008	0.047	8.6%
Aug-19	0.540	0.529	0.000	0.541	0.008	-0.020	-3.8%
Sep-19	0.527	0.516	0.000	0.438	0.008	0.070	13.5%
Oct-19	0.499	0.489	0.000	0.565	0.008	-0.084	-17.2%
Nov-19	0.497	0.486	0.000	0.444	0.008	0.034	7.0%
Dec-19	0.493	0.483	0.000	0.505	0.008	-0.030	-6.2%
Total	6.293	6.174	0.000	5.852	0.095	0.227	3.7%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Park Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					
	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Total Purch. Sewage Treatment
Jan-19					0.000	0.000
Feb-19					0.000	0.000
Mar-19		Not Applicable - water only system			0.000	0.000
Apr-19					0.000	0.000
May-19					0.000	0.000
Jun-19					0.000	0.000
Jul-19					0.000	0.000
Aug-19					0.000	0.000
Sep-19					0.000	0.000
Oct-19					0.000	0.000
Nov-19					0.000	0.000
Dec-19					0.000	0.000
Total	0.000				0.000	0.000

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Park Ridge | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

				Date	GPD
1	**Plant Capacity**				
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Max Day Design per Sanitary Survey**			**246,000**
		AADF per Cup			**25,753**
2	**Maximum Day**				
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.			**5/29/2019**	**29,900**
3	**Five Day Max. Year**				
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.		**(1)**	**6/11/2019**	**21,500**
			(2)	**6/1/2019**	**24,100**
			(3)	**6/2/2019**	**26,200**
			(4)	**6/3/2019**	**26,200**
			(5)	**6/5/2019**	**28,600**
				AVERAGE	**25,320**
				Max Month	**19,334**
4	**Average Daily Flow**			**Annual**	**16,915**
5	**Required Fire Flow**			**None**	

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

Wastewater Treatment Plant Data **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Park Ridge **Schedule F-4**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

		MONTH	GPD
	Not Applicable - water only system		
1.	**Plant Capacity** **The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.**		
2.	**Average Daily Flow Max Month (a)** **An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.**		

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Park Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well pumping capacity, gpm	**300**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm (System has only one well)	**0**	**gpm**
Ground storage capacity, gal.	**10,000**	**gallons**
Usable ground storage (90%), gal.	**9,000**	**gallons**
Elevated Storage	**0**	**gallons**
Usable ground storage (100%), gal.	**0**	**gallons**
Hydropneumatic storage capacity, gal.	**3,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.	**0**	**gallons**
Total usable storage, gal.	**9,000**	**gallons**
Maximum day demand, with no incidents	**29,900**	**gpd**
Peak hour demand = 2x max day/1440	**42**	**gpm**
Fire flow requirement	**0**	**gpd**
Unaccounted for water 3.67% of water pumped	**621**	**gpd**
Acceptable unaccounted for 10.00%	**1,691**	**gpd**
Excess unaccounted for	**0**	**gpd**

Used & Useful Analysis, in accordance with Rule 25-30.4325:

Water Treatment Plant
Percent Used & Useful = (A + B + C - D)/E x 100%, where: 100.00%

A =	**Peak demand**	**29,900**	**gpd**
B =	**Property needed to serve five years after TY**	**0**	**gpd**
C =	**Fire flow demand**	**0**	**gpd**
D =	**Excess Unaccounted for water**	**0**	**gpd**
E =	**Firm Reliable Capacity**	**0**	**gpd**

Storage
Percent Used & Useful = (A + B + C - D)/E x 100%, where: 100.00%

A =	**Peak demand**	**29,900**	**gallons**
B =	**Property needed to serve five years after TY**	**0**	**gallons**
C =	**Fire flow demand**	**0**	**gallons**
D =	**Excess Unaccounted for water**	**0**	**gallons**
E =	**Firm Reliable Capacity**	**9,000**	**gallons**

The above used and useful factor is applicable to the distribution reservoir accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Park Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Not Applicable - water only system.

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Park Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System

Used & useful was last set for this system in Docket No. Docket No. 20160101-WS.
The water distribution system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.

Margin Reserve Calculations **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Park Ridge **Schedule F-8**
Docket No.: 20200139-WS **Page 1 of 1**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

**Not applicable. Used & useful was last set for this system in Docket No. Docket No. 20160101-WS.
All water is purchased. The system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.**

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Park Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	100	99	100	5,815,210	58,444	5,816,310	100	
2	2016	99	98	99	5,877,390	59,669	5,878,410	99	-1.01%
3	2017	98	99	99	5,798,085	58,864	5,799,025	99	0.00%
4	2018	99	99	99	6,133,381	61,953	6,134,201	99	0.50%
5	2019	99	107	103	5,830,519	56,607	5,852,099	103	4.41%
						Average Growth Through 5-Year Period (Col. 8)			0.98%

Regression Analysis per Rule 25-30.431(2)(C)

Constant:	97.32298444
X Coefficient:	0.822094891
R^2:	0.401873345

X	Y
1	100
2	99
3	99
4	99
5	103
10	106

Five year growth	2 Ercs
Annual average growth	0.43 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Park Ridge
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015								
2	2016	Not Applicable - water only system.							
3	2017								
4	2018								
5	2019								
					Average Growth Through 5-Year Period (Col. 8)				

Gallons of Water Pumped, Sold and Unaccounted For
In Thousands of Gallons

Company: Utilities, Inc. of Florida - Seminole - Weathersfield
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Florida Public Service Commission

Schedule F-1
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide a schedule of gallons of water pumped, sold and unaccounted for each month of the test year. The gallons pumped should match the flows shown on the monthly operating reports sent to DEP. The other uses may include plant use, flushing of hydrants and water and sewer lines, line breakages and fire flows. Provide all calculations to substantiate the other uses. If unaccounted for water is greater than 10%, provide an explanation as to the reasons why; if less than 10%, then Columns 4 & 5 may be omitted.

Month/ Year	(1) Total Gallons Pumped Per MORs	Total Gallons Corrected for Meter Error (1)	(2) Gallons Purchased	(3) Gallons Sold	(4) Other Uses (2)	(5) Unaccounted For Water (1)+(2)-(3)-(4)	(6) % Unaccounted For Water
Jan-19	6.013	6.073	-	5.606	0.070	0.397	6.5%
Feb-19	5.576	5.631	-	5.148	0.046	0.436	7.8%
Mar-19	6.533	6.598	-	6.208	0.119	0.271	4.1%
Apr-19	6.496	6.560	-	6.072	0.056	0.433	6.6%
May-19	7.262	7.346	-	6.761	0.069	0.516	7.0%
Jun-19	6.456	6.552	-	6.127	0.076	0.349	5.3%
Jul-19	6.064	6.154	0.499	6.207	0.069	0.376	5.7%
Aug-19	6.212	6.304	-	5.977	0.053	0.274	4.3%
Sep-19	6.408	6.503	-	6.079	0.055	0.369	5.7%
Oct-19	6.270	6.363	-	5.953	0.091	0.318	5.0%
Nov-19	5.179	5.256	0.893	5.662	0.165	0.322	5.2%
Dec-19	6.146	6.237	-	5.783	0.074	0.380	6.1%
Total	74.615	75.576	1.392	71.583	0.943	4.441	5.8%

(Above data in millions of gallons)

(1) The Utility does an annual flow meter calibration. A correction factor is calculated that reflects the difference between our flow meter and a strap-on meter positioned directly adjacent to our meter to give highest confidence of meter accuracy. Meters are not necessarily repaired or modified after a calibration test. Instead, it is assumed that the measured error will be present consistently thereafter or until a subsequent flow test indicates otherwise. The corrected gallons = the gallons reported in the MOR + the percent correction determined in the most recent calibration.

(2) Other Uses includes such uses as line breaks, flushing and water quality testing

Gallons of Wastewater Treated
In Thousands of Gallons

Florida Public Service Commission

Schedule F-2
Page 1 of 1
Preparer: Seidman, F.

Company: Utilities, Inc. of Florida - Seminole - Weathersfield
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Explanation: Provide a schedule of gallons of wastewater treated by individual plant for each month of the historical test year. Flow data should match the monthly operating reports sent to DEP.

Month/ Year	(1)	(2)	(3)	(4)	(5)	(6)
	Individual Plant Flows					
	(Name)	(Name)	(Name)	(Name)	Total Plant Flows	Total Purch. Sewage Treatment
Jan-19	0.000				0.000	3.924
Feb-19	0.000				0.000	3.604
Mar-19	0.000				0.000	4.346
Apr-19	0.000				0.000	4.250
May-19	0.000				0.000	4.732
Jun-19	0.000				0.000	4.289
Jul-19	0.000				0.000	4.345
Aug-19	0.000				0.000	4.184
Sep-19	0.000				0.000	4.255
Oct-19	0.000				0.000	4.167
Nov-19	0.000				0.000	3.963
Dec-19	0.000				0.000	4.048
Total	0.000				0.000	50.108

All sewage treated by City of Sanford

Note: By agreement with Altamonte Springs, WW flow is assumed to be 70% of water sold and billed accordingly. The above flows equal 70% of water sales to WW customers.

Water Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Weathersfield | **Schedule F-3**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each water treatment plant. If the system has water plants that are interconnected, the data for these plants may be combined. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

			Date	GPD
1	**Plant Capacity**			
	The hydraulic rated capacity. If different from that shown on the DEP operating or construction permit, provide an explanation.	**Max Day Design per Sanitary Survey**		**864,000**
		Annual Avg. day per CUP		**237,014**
2	**Maximum Day**			
	The single day with the highest pumpage rate for the test year. Explain, on a separate sheet of paper if fire flow, line breaks, or other unusual occurrences affected the flow this day.		**5/28/2019**	**298,000**
3	**Five Day Max. Year**			
	The five days with the highest pumpage rate from any one month in the test year. Provide an explanation if fire flow, line breaks or other unusual occurrences affected the flows on these days.	**(1)**	**5/27/2019**	**272,000**
		(2)	**5/26/2019**	**273,000**
		(3)	**5/7/2019**	**276,000**
		(4)	**5/30/2019**	**289,000**
		(5)	**5/28/2019**	**298,000**
			AVERAGE	**281,600**
			Max Month	**236,979**
4	**Average Daily Flow**		**Annual**	**207,056**

5 Required Fire Flow **(Mixed residential/commercial)** *** 1,250 gpm for 2 hours**

The standards will be those as set by the Insurance Service Organization or by a governmental agency ordinance. Provide documents to support this calculation.

*** Land Development Code of Seminloe County**
Single family & duplexes - 600 gpm minimum
All others - 1,250 gpm minimum

Wastewater Treatment Plant Data | **Florida Public Service Commission**

Company: Utilities, Inc. of Florida - Seminole - Weathersfield | **Schedule F-4**
Docket No.: 20200139-WS | **Page 1 of 1**
Test Year Ended: December 31, 2019 | **Preparer: Seidman, F.**

Explanation: Provide the following information for each wastewater treatment plant. All flow data must be obtained from the monthly operating reports (MORs) sent to the Department of Environmental Protection.

NOT APPLICABLE - ALL TREATMENT PURCHSED FROM CITY OF SANFORD | **MONTH** | **GPD**

1. **Plant Capacity (3MADF)**

   The hydraulic rated capacity. If different from that shown on the DER operating or construction permit, provide an explanation.

2. **Average Daily Flow Max Month** -

3 **Average Annual Daily Flow** -

3 **Max 3 Month Average Daily Flow (3MADF)**

An average of the daily flows during the peak usage month during the test year. Explain, on a separate page, if this peak-month was influenced by abnormal infiltration due to rainfall periods.

(There is no record that this peak month was influenced by any abnormal infiltration)

Used and Useful Calculations
Water Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Weathersfield
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-5
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-5,A-9,B-13

INPUT INFORMATION:

Total well capacity, gpm		**1,550**	**gpm**
Firm Reliable well pumping capacity (largest well out), gpm		**550**	**gpm**
Ground storage capacity, gal.		**100,000**	**gallons**
Usable ground storage (90%), gal.		**90,000**	**gallons**
Elevated storage		**0**	**gallons**
Usable elevated storage		**0**	**gallons**
Hydropneumatic storage capacity, gal.		**10,000**	**gallons**
Usable hydropneumatic storage capacity (0.00%), gal.		**0**	**gallons**
Total usable storage, gal.		**90,000**	**gallons**
Maximum day demand		**298,000**	**gpd**
Peak hour demand = 2 x maximum day/1440		**414**	**gpm**
Fire flow requirement	**1250 gpm x 2 hours**	**150,000**	**gpd**
Unaccounted for water	**5.77% of water pumped**	**12,167**	**gpd, avg**
Acceptable unaccounted for	**10.00%**	**20,706**	**gpd, avg**
Excess unaccounted for		**0.0**	**gpd, avg**

Used & Useful Analysis, in accordance with Rule 25-30.4325:

Percent Used & Useful = (A + B + C - D)/E x 100%, where: **56.57%**

Use: **100.00%**

A =	**Peak demand**	**298,000**	**gpd**
B =	**Property needed to serve five years after TY**	**0**	**gpd**
C =	**Fire flow demand**	**150,000**	**gpd**
D =	**Excess unaccounted for water**	**0**	**gpd**
E =	**Firm Reliable Capacity**	**792,000**	**gpd**

In Docket No. 20160101-WS, all WTP facilities, including Weathersfield, were found to be 100% U&U, by stipulation. This system is built out. No significant factors have changed.

The above used & useful factor is applicable to all source of supply, pumping and treatment accounts, as well as the land, structures and distribution reservoir accounts.

Storage

Percent Used & Useful = (A + B + C - D)/E x 100%, where: **100.00%**

A =	**Peak demand**	**298,000**	**gallons**
B =	**Property needed to serve five years after TY**	**0**	**gallons**
C =	**Fire flow demand**	**150,000**	**gallons**
D =	**Excess Unaccounted for water**	0	**gallons**
E =	**Firm Reliable Capacity**	**90,000**	**gallons**

The above used and useful factor is applicable to the distribution reservoir accounts.

Used and Useful Calculations
Wastewater Treatment Plant

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Weathersfield
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-6
Page 1 of 2
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the wastewater treatment plant(s) for the historical test year and the projected test year (if applicable).

Recap Schedules: A-6,A-10,B-14

Line No.		Not applicable - All sewage treatment purchased from City of Sanford	
1	(A)	Used and useful flow (000):	
2		3MADF - year 2015	-
3	(B)	Property needed for post test year period (see F-8)	-
4	(C)	Permitted capacity (3MADF)	-
5	(D)	Used and useful percentage	0.00%
6	(E)	Non-used and useful percentage	0.00%

Used and Useful Calculations **Florida Public Service Commission**
Wastewater Treatment Plant

Company: Utilities, Inc. of Florida - Seminole - Weathersfield **Schedule F-6**
Docket No.: 20200139-WS **Page 2 of 2**
Test Year Ended: December 31, 2019 **Preparer: Seidman, F.**

A. Infiltration allowance, excluding service laterals

	Main dia. inches	Main length feet	miles	Allowance @ 500 gpd/inch-dia./mile gpd	gpy
1	4		0.000	0	
	6		0.000	0	
2	8	49,930	9.456	37,826	
3	10	0	0.000	0	
	12		0.000	0	
	15		0.000	0	
4	Total	49,930	9.456	37,826	13,806,402
5	Estimated Inflow @ 10% of flows (l.10)				7,070,316
6	Allowable I&I				20,876,718

B. Actual Inflow & Infiltration (I&I)

7	Wastewater treated			50,108,215
	Water Gallons (not capped) sold to:		Estimated returned	
8	Residential WW	69,281,202	80%	55,424,962
9	Non-Res. WW	1,421,960	90%	1,279,764
10	Estimated flows returned	70,703,162		56,704,726
12	Estimated I&I (treated less returned) [l.7-l.9]			-6,596,510
13	Actual less allowable [l.10-l.6]			-27,473,228
14	Excess, if any [l.10-l.6, if positive]			0
15	Excess as percent of wastewater treated			0.00%

Used and Useful Calculations
Water Distribution and Wastewater Collection Systems

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Weathersfield
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-7
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide all calculations, analyses and governmental requirements used to determine the used and useful percentages for the water distribution and wastewater collection systems for the historical and the projected test year (if applicable). The capacity should be in terms of ability to serve a designated number of connections. It should then be related to actual connected density for historical year calculations. Explain all assumptions for projected calculations. If the distribution and collection systems are entirely contributed or built-out, this schedule is not required.

Recap Schedules: A-5,A-6,A-9,A-10,B-13,B-14

Water Distribution System
Used & useful was last set for this system in Docket No. 20160101-WS.
The water distribution system was found to be built out and 100% U&U. Circumstances have not changed.
The system remains 100% used & useful.

Margin Reserve Calculations

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Weathersfield
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-8
Page 1 of 1
Preparer: Seidman, F.

Explanation: If a margin reserve is requested, provide all calculations and analyses used to determine the amount of margin reserve for each portion of used and useful plant.

Recap Schedules: F-5,F-6,F-7

Not applicable. Used & useful was last set for this system in Docket No. 20160101-WS. The system was found to be built out and 100% U&U. Circumstances have not changed. The system remains 100% used & useful.

Equivalent Residential Connections - Water

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Weathersfield
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-9
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,162	1,164	1,163	68,094,273	58,551	69,837,603	1,193	
2	2016	1,164	1,163	1,164	69,502,152	59,735	71,705,170	1,200	0.64%
3	2017	1,163	1,167	1,165	67,730,265	58,138	69,543,685	1,196	-0.35%
4	2018	1,167	1,164	1,166	69,080,396	59,271	70,933,656	1,197	0.05%
5	2019	1,164	1,168	1,166	69,402,772	59,522	71,387,372	1,199	0.22%
						Average Growth Through 5-Year Period (Col. 8)			0.14%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1194.234359	1	1,193
X Coefficient:	0.952283742	2	1,200
R^2:	0.255985343	3	1,196
		4	1,197
		5	1,199
		10	1204

Five year growth	4 Ercs
Annual average growth	0.88 Ercs

The Coefficient of determination - R^2 is very weak. Use simple average growth rate:

Five year growth	8 Ercs
Annual average growth @ 0.14%	1.65 Ercs

Equivalent Residential Connections - Wastewater

Florida Public Service Commission

Company: Utilities, Inc. of Florida - Seminole - Weathersfield
Docket No.: 20200139-WS
Test Year Ended: December 31, 2019

Schedule F-10
Page 1 of 1
Preparer: Seidman, F.

Explanation: Provide the following information in order to calculate the average growth in ERCs for the last five years, including the test year. If the utility does not have single-family residential (SFR) customers, the largest customer class should be used as a substitute.

Line No.	(1) Year	(2) SFR Customers Beginning	(3) SFR Customers Ending	(4) SFR Customers Average	(5) SFR Gallons Sold	(6) Gallons/ SFR (5)/(4)	(7) Total Gallons Sold	(8) Total ERCs (7)/(6)	(9) Annual % Incr. in ERCs
1	2015	1,160	1,160	1,160	67,975,143	58,599	69,509,103	1,186	
2	2016	1,160	1,161	1,161	69,308,422	59,723	70,865,922	1,187	0.03%
3	2017	1,161	1,165	1,163	67,582,115	58,110	68,920,845	1,186	-0.05%
4	2018	1,165	1,162	1,164	68,912,826	59,229	70,430,306	1,189	0.26%
5	2019	1,162	1,166	1,164	69,281,202	59,520	70,703,162	1,188	-0.10%
						Average Growth Through 5-Year Period (Col. 8)			0.04%

Regression Analysis per Rule 25-30.431(2)(C)

		X	Y
Constant:	1185.370391	1	1,186
X Coefficient:	0.596854944	2	1,187
R^2:	0.513251193	3	1,186
		4	1,189
		5	1,188
		10	1191

Five year growth	3 Ercs
Annual average growth	0.69 Ercs

The Coefficient of determination - R^2 is very weak. Use simple average growth rate:

Five year growth	2 Ercs
Annual average growth @ 0.48%	0.43 Ercs

CERTIFICATE OF SERVICE

HEREBY CERTIFY that on the 30th day of June 2020, a true and correct copy of the foregoing Prefiled Direct Testimony has been served via email to:

Walter Trierweiler, Esquire
Office of General Counsel
wtrierwe@psc.state.fl.us

Stephanie Morse, Esquire
Office of Public Counsel
morse.stephanie@leg.state.fl.us

/s/ Martin S. Friedman

MARTIN S. FRIEDMAN