BEFORE THE FLORIDA PUBLIC SERVICE MMISSION

In Re: Application for increase in water and wastewater rates in Alachua, Brevard, DeSoto, Highlands, Lake, Lee, Marion, Orange, Palm Beach, Pasco, Polk, Putnam Seminole, Sumter, Volusia, and Washington Counties by Aqua Utilities Florida, Inc.	)	**DOCKET NO. 080121-WS**
	)	**FILED: October 13, 2008**

DIRECT TESTIMONY OF

ANDREW T. WOODCOCK, P.E., M.B.A.

ON BEHALF OF

THE CITIZENS OF THE STATE OF FLORIDA

Respectfully submitted,

J. R. Kelly
Public Counsel

Office of Public Counsel
c/o The Florida Legislature
111 West Madison Street
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(850) 488-9330

Attorney for the Citizens
Of the State of Florida

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Attorney for the Citizens
of the State of Florida

PREFILED TESTIMONY OF

ANDREW T. WOODCOCK PE, MBA

Q. WHAT IS YOUR NAME AND BUSINESS ADDRESS?

A. My name is Andrew Woodcock. My business address is 201 East Pine St. Suite 1000, Orlando, Florida.

Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?

A. I am employed by Tetratech as a Professional Engineer and Senior Project Manager.

Q.WHAT IS YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE?

A. I graduated from the University of Central Florida in 1988 with a B.S. degree in Environmental Engineering and in 1989 with an M.S. degree in Environmental Engineering. In 2001, I graduated from Rollins College with an MBA degree. In 1990, I was hired at Dyer, Riddle, Mills and Precourt as an engineer. In May of 1991, I was hired at Hartman and Associates, which has since become Tetratech. My experience has been in the planning and design of water and wastewater systems with specific emphasis on utility valuation, capital planning, utility financing, utility mergers and acquisitions and cost of service rate studies. I have also served as utility rate regulatory staff for St. Johns and Collier Counties in engineering matters. Before the Florida Public Service Commission (FPSC) I have provided testimony for Docket No. 070183-WU, regarding the Used and Useful Rule for Water Treatment Systems and for Docket No. 070293-SU, KW Resort Utilities Rate Case. Exhibit ATW-1 provides additional details of my work experience.

Q. WHAT ARE YOUR PROFESSIONAL AFFILIATIONS?

A. I am a member of the Florida Stormwater Association, American Water Works Association and Water Environment Federation.

Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE A RATE REGULATORY BODY AS AN ENGINEERING WITNESS?

A. Yes, I testified in 2002 for the St. Johns County Regulatory Authority at a special hearing in an overearnings case against Intercoastal Utilities. In 2008, I testified before the FPSC on the Used and Useful Rule for Water Treatment Systems on behalf of the Office of Public Counsel (OPC). Also, in 2008, I testified in Docket 070293-SU regarding the used and usefulness of utility plant of KW Resort Utilities on behalf of OPC.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. The purpose of my testimony is to offer used and useful (U&U) testimony on the 70 water systems and 25 wastewater systems included in this rate case. I will also provide testimony regarding the importance of meeting secondary potable water standards for utilities.

Q. WHAT DOCUMENTS HAVE YOU REVIEWED AND WHAT INVESTIGATIONS AND ANALYSES HAVE YOU MADE IN PREPARATION FOR YOUR TESTIMONY?

A. I have studied the filings of AUF, including the Minimum Filing Requirements (MFRs) and the direct Testimony of John Guastella and John Livarcik. I also reviewed the Annual Reports filed by AUF with FPSC for 2006 and 2007. I also contacted the Offices of the Florida Department of Environmental Protection (FDEP). I have reviewed and studied many of AUF's responses to discovery requests. I also for purposes of service area determination consulted the property maps of several County Appraisers offices.

I made an inspection trip to each of the systems in the rate case and personally inspected the major above ground treatment facilities of each system in the summer of 2007 as part

of the previous rate filing by AUF which was withdrawn. In the summer of 2008, I reinspected the following systems:

48 Estates

Arredondo Estates

Arredondo Farms

Belleview Hills Estates (Ocala Oaks)

Carlton Village

Chuluota

Imperial Mobile Terrace

Jasmine Lakes

Kings Cove

Lake Josephine

Lake Suzy

Leisure Lakes

Ocala Oaks

Palm Terrace

Picciola Island

Piney Woods

Pomona Park

Ravenswood

Rosalie Oaks

Sebring Lakes

Silver Lake Estates/Western Shores

South Seas

Summit Chase

Sunny Hills

Tangerine

The Woods

Tomoka

Twin Rivers

Valencia Terrace

Venetian Village

Village Water

Welaka/Saratoga Harbour

Zephyr Shores

I also analyzed the system maps of each system in relation to the number of connected customers, vacant lots and ability to provide fire flow.

Q. WHAT METHODOLOGY DID YOU USE TO CALCULATE THE U&U PERCENTAGES FOR WATER TREATMENT AND STORAGE?

A. I made my calculations based upon the requirements of the Commission's Rule No. 25-4325, F.A.C.

Q. WHAT ARE YOUR FINDINGS WITH RESPECT TO WATER TREATMENT AND STORAGE FOR THE SYSTEMS IN THIS RATE CASE?

A. A summary of my U&U percentages for treatment and storage is presented in Exhibit ATW-2 with supporting calculations. For water treatment, of the 70 systems evaluated I found 24 are 100% U&U due to either the U&U calculation, being a single well system or having a completely built out service area with no potential for expansion. The remaining systems have less than 100% U&U for treatment. For storage I found that all systems with storage are 100% U&U with respect to storage. I also found nine systems that receive treated water only from other non AUF utilities and therefore have no U&U

for treatment.

Q. WHAT DID YOU FIND WITH RESPECT TO EXCESS UNACCOUNTED FOR WATER IN THE SYSTEMS INCLUDED IN THE RATE CASE?

A. I relied upon the data provided by the Utility in the MFRs. In determining what amount of unaccounted for water is considered excessive I used a threshold of 10% of the pumped water, which is the standard pursuant to Rule No. 25-30.4325, F.A.C. Any unaccounted for water over this amount was deducted from the used and useful calculation.

Q. HOW DID YOU DETERMINE THE MAXIMUM DAY DEMAND FOR THE WATER SYSTEMS?

A. I conducted a thorough analysis of the Monthly Operating Reports (MORs) AUF was required to submit to the FDEP for the 2007 test year and selected the single highest demand recorded for the year.

Q. IN YOUR ANALYSIS DID YOU OCCASIONALLY USE A DEMAND OTHER THAN THE MAXIMUM DAY DEMAND?

A. Yes, I did. In several instances AUF in its MFRs did not use the actual maximum day demand of the historic test year in its used and useful calculation. I take this to mean that those days are anomalies and are not to be used in the used and useful calculations and therefore I relied upon the demands utilized in the filing. The systems in question are:

Chuluota

Grand Terrace

Haines Creek

Harmony Homes

Imperial Mobile Terrace

Kings Cove

Silver Lake Estates

Sunny Hills

Tangerine

Venetian Village

Welaka/Saratoga Harbour

The Woods

In some other cases the U&U for water was not individually calculated per system in favor of a grouped calculation for numerous systems. I address these systems specifically further in my testimony. However, for purposes of determining demand I relied upon the maximum day demand as reported in the MORs of the test year. In two other cases the maximum day demand presented in the MFRs did not match the test year MOR data. In these cases I relied upon the MOR amount.

Q. WHAT STEPS DID YOU TAKE TO DETERMINE THE CAPACITIES OF THE WATER TREATMENT COMPONENTS?

A. I relied primarily upon what was stated in the MFRs submitted by AUF, as verified by my reviews of the system permits, sanitary surveys, and review of on-site O&M manuals and other data. In some cases where there was no data to document what was in the MFRs I conducted rudimentary flow tests during my system inspections. These tests on the system pumps consisted of reading the flow meters during their operation. I made the following adjustments or changes to the U&U calculation:

System	Component	Notes
49th St Villas (Ocala Oaks)	Wells	Added 75 gpm well based on Sanitary Surveys
Belleaire (Ocala Oaks)	Wells	Added two 92 gpm wells based on Sanitary Surveys

Belleview Hills (Ocala Oaks)	Wells	Added two 70 gpm wells based on Sanitary Surveys
Belleview Hills Estates (Ocala Oaks)	Wells	Added two 200 gpm wells based on Sanitary Surveys
Chappell Hills (Ocala Oaks)	Wells	Added one 70 gpm well based on Sanitary Surveys
Fairfax Hills (Ocala Oaks)	Wells	Added two 70 gpm wells based on Sanitary Surveys
Gibsonia Estates	Wells	Used well capacities of 305 and 180 gpm based on onsite O&M data
Hawks Point (Ocala Oaks)	Wells	Added two 185 gpm wells based on Sanitary Surveys
Marion Hills (Ocala Oaks)	Wells	Added one 50 gpm well based on Sanitary Surveys
Ridgeview (Ocala Oaks)	Wells	Added two 90 gpm wells based on Sanitary Surveys
Westview (Ocala Oaks)	Wells	Added one 70 gpm well based on Sanitary Surveys
Woodbury (Ocala Oaks)	Wells	Added one 70 gpm well based on Sanitary Surveys
Zephyr Shores	Wells	Added a 500 gpm well from field inspection

Q. HOW DID YOU ADDRESS GROWTH IN YOUR USED AND USEFUL ANALYSIS?

A. Chapter 367.081 (2)(a)2.b., F.S., requires that used and useful calculations include a growth factor for the first full five years after the end of the test year. In this case the test year is 2007. In my growth calculations I have included growth through 2012 which is five years past the projected test year.

For the estimate of annual growth for each system I relied upon the data submitted by the Utility in Schedules F-9 and F-10. In instances where a negative growth rate was calculated I used 0%. In instances where the growth rate over the five year period was in excess of 25% I used a growth rate of 5% for five years as required by Chapter 367.081 (2)(a)2.b., F.S.

Q. ARE ANY OF THE SYSTEMS YOU EVALUATED INTERCONNECTED?

A. Yes, I found four instances where water systems were interconnected; East Lake Harris - Friendly Estates, St Johns Highlands - Hermits Cove, Sebring Lakes – Lake Josephine and Welaka - Saratoga Harbour. In each case it was necessary to calculate the used and useful percentages with the interconnected systems operating together as detailed in Exhibit ATW-2. For the most part this consisted of calculating the firm reliable capacity using the combined wells of the systems. However, In the case of Sebring Lakes – Lake Josephine it was also necessary to combine the unaccounted for water analysis and growth factors based on a weighted average of the systems.

Q. WHY IS IT IMPORTANT THAT INTERCONNECTED SYSTEMS BE EVALUATED TOGETHER FOR PURPOSES OF U&U?

A. Interconnected water systems generally operate as one water system, so even though there may be two water treatment plants (one for each system) they provide capacity to the system as if they were a single water treatment plant. For U&U purposes this would

require using the capacity of the wells for both water treatment plants and removing the largest well per Rule No. 25-30.4325, F.A.C. If the water systems are considered separately the largest well at each water treatment plant would be removed from the calculation and would overstate the U&U of the combined system.

Q. WERE THERE ANY ANOMALIES IN THE WATER SYSTEM DATA SUBMITTED BY THE UTILITY?

A. Yes, there were three situations apart from the numerous capacity changes previously mentioned. First, is the case of Ocala Oaks. The MFRs submitted by the Utility for Ocala Oaks actually comprise data for 12 water systems in Marion County. It is difficult to determine exactly how the MFRs arrive at a single used and useful value for these systems. Discovery responses received from the Utility on this issue reveal that the Utility has considered each system individually and maintains that as a whole the Marion County systems are 100% U&U

I evaluated each system individually based on the available data. Much of the information on well capacities was obtained from Sanitary Surveys and my inspections. For both the unaccounted for water and growth rates I applied what the utility used for Ocala Oaks as a whole. The individual used and useful analyses generated are as follows:

System	Water Treatment Used and Useful
49th Street Villas	100.00%
Belleaire	100.00%
Belleview Hills	100.00%
Belleview Hills Estates	100.00%
Chappell Hill	100.00%
Fairfax Hills	84.85%
Hawks Point	100.00%

Marion Hills	100.00%
Ocala Oaks	100.00%
Ridgeview	84.14%
Westview	100.00%
Woodbury	100.00%

A combined analysis was prepared by using a weighted average of the used and useful calculations with the connected customers as a weighting factor. The resulting composite used and useful percentage is 99.00%.

The second and third unusual instances are similar to Ocala Oaks and include the combining of Arredondo Farms and Arredondo Estates and the combining of Tomoka and Twin Rivers. In both cases the data of two non-connected systems are combined in the MFRs.

An individual analysis of the Arredondo systems yields the following:

System	**Water Treatment Used and Useful**
Arredondo Estates	89.99%
Arredondo Farms	68.89%

Combining the used and useful calculations using connected customers as a weighting factor generates an overall percentage of 76.94%, which is used at this time.

The individual used and useful analysis of the Tomoka and Twin Rivers systems yields:

System	**Water Treatment Used and Useful**
Tomoka	Treatment 50.54%; Storage 100.00%
Twin Rivers	Treatment 27.97%; Storage 100.00%

The weighted average calculation also generates overall component percentages of 46.37% for treatment and 100.00% for storage.

Q. WHAT IS YOUR POSITION ON FIRE FLOW AND USED AND USEFUL?

A. When fire flow is actually provided by the water system, it should be a part of the used and useful calculation. In the MFRs the Utility uses fire flow for 11 systems as follows:

System	Fire Flow Requirements
Chuluota	750 gpm for 2 hours
Hobby Hills	500 gpm for 2 hours
Imperial Mobile Terrace	500 gpm for 2 hours
Kings Cove	500 gpm for 2 hours
Quail Ridge	500 gpm for 2 hours
Silver Lake Estates-Western Shores	500 gpm for 2 hours
Skycrest	500 gpm for 2 hours
Summit Chase	500 gpm for 2 hours
Sunny Hills	700 gpm for 2 hours
Tangerine	500 gpm for 2 hours
Valencia Terrace	500 gpm for 2 hours

In evaluating whether or not a system is actually able to provide fire flow I reviewed the system maps submitted by the Utility. My review consisted of looking for the presence of fire hydrants throughout the service area as well as evaluating the line sizes of the system that fed the hydrants. In cases where the hydrants were not located in sufficient numbers to cover the full service area or when the pipes for the hydrants were less than six inches in diameter, the system was considered not able to provide fire flow and fire flow was not considered in the used and useful calculations. Based on my review, fire flow should not be considered in the following systems:

Chuluota: Hydrants are not located throughout the service area.

Hobby Hills: Maps show no fire hydrants or sufficiently sized lines.

Imperial Mobile Terrace: Maps show no fire hydrants or sufficiently sized lines.

Silver Lake Estates-Western Shores: Hydrants are not located throughout the service area.

Skycrest: Hydrants are not located throughout the service area.

Sunny Hills: Hydrants are not located throughout the service area.

Tangerine: Hydrants are not located throughout the service area.

Q. DESCRIBE YOUR USED AND USEFUL METHODOLOGY FOR WASTEWATER TREATMENT SYSTEMS?

A. I followed the methodology stated in Rule No. 25-30.432, F.A.C. My analysis consisted of a review of the test year Discharge Monitoring Reports (DMRs) that are required to be filed monthly with FDEP. For many systems I found that the DMR flows do not match with what is found in the MFRs. However, in most cases it did not appear to be a significant difference. In my calculations I used the flows that were presented in the DMRs.

The appropriate basis for the calculation was then determined from the system permits. In instances where the permit delineated two permitted capacities, one for treatment and one for effluent disposal, two separate used and useful percentages were produced. For these cases I used the larger of the two used and useful values. Of the 25 wastewater systems three receive treatment through agreements with other utilities and therefore no U&U percentages were provided for these facilities. Exhibit ATW-3 provides a summary sheet of my wastewater treatment used and useful calculations as well as detailed sub sheets for each system.

Q. DESCRIBE YOUR EFFORTS TO IDENTIFY INFILTRATION AND INFLOW IN THE WASTEWATER SYSTEMS?

A. To determine if infiltration and inflow (I/I) is an issue one must first look at the billed

water flow relative to the wastewater flow. Engineering guidelines state that 70% to 90% of water purchased by customers is returned to the wastewater system. In order to determine if I/I is present in a system I used an 80% return ratio. If the wastewater flow is greater than 80% of the billed water flow then I considered the system to have excessive I/I. Some systems have a different number of water and wastewater customers so in these cases I used the ratio of water to wastewater Equivalent Residential Connections (ERCs) to factor the appropriate billed water from the wastewater customers.

I then looked to what would be an allowable amount of I/I for a system. For this analysis I used a value of 500 gpd/in-dia/mi of pipe for allowable infiltration and a value of 10% of the water sold to customers for inflow. Based on this criterion the following systems were found to have excessive I/I and require adjustment to the used and useful calculations:

Interlachen-Park Manor

Jungle Den

Rosalie Oaks

Summit Chase

Q. DESCRIBE YOUR METHODOLOGY FOR DETERMINING THE USED AND USEFUL PERCENTAGES FOR WATER DISTRIBUTION AND WASTEWATER COLLECTION?

A. For determining the U&U of the water distribution and wastewater collection systems I used the ERC to available ERC method. These calculations were determined based upon lot and customer counts from the maps provided with the MFRs. In my calculations I assume that the character of future development will be similar to that of past development in the service area, and that future development will be as dense, with the same ratio of ERCs to developed lots, as is currently present in the service area. A

summary of the used and useful percentage for each system along with detailed sub sheets are shown in Exhibit ATW-4.

Q. AS PERMITTED BY (3) OF THE COMMISSION'S RULE NO. 25-30.4325, F.A.C., DO YOU BELIEVE IT IS APPROPRIATE TO PROVIDE AN ALTERNATIVE CALCULATION FOR CERTAIN WATER TREATMENT SYSTEMS?

A. Yes. There are three systems that I considered exceptions to Rule No. 25-30.4325(4), F.A.C., regarding consideration of 100% U&U for systems with one well. In 19 cases I found single well systems that are considered 100% U&U. However, even though some systems are served by a single well the calculated U&U numbers are actually quite low. In these instances further consideration of the system is required.

In defining my criteria for further consideration I looked at both the calculated U&U and the size of the supply well. If the well is greater than 150 gpm and the calculated U&U is less than 75% I believe further evaluation of the U&U is appropriate.

Q. HOW DID YOU COME ABOUT THESE CRITERIA?

In deviating from the requirements of the one well rule I wanted to be sure that I was only considering systems where a further analysis would have a significant impact. I generated these criteria to provide a conservative basis for isolating special cases to the one well rule. For the U&U criterion I wanted to make sure that I was not including facilities that would be close to 100% U&U without consideration of the one well rule. I set 75% U&U as a threshold so that there would be a significant difference for deviating from the one well rule.

With respect to the well pumps I wanted to conservatively eliminate smaller capacity pumps where a small change in demand could have a large percentage impact on U&U. This recognizes the fact that a smaller well pump could easily approach 100% U&U with

only a few additional customers. Whereas, a larger well serving the same customer base would not see as high of a U&U increase. Based on my review of the systems I believe that 150 gpm is a conservative threshold to account for this.

Q. WHAT SYSTEMS WERE AFFECTED BY THESE CRITIERA?

A. Of the 70 water systems I found three systems with one well that meet the above criteria and should be evaluated for U&U on a calculated basis. These are the Fern Terrace system which has a single 180 gpm pump and a calculated U&U of 56.17%; the Rosalie Oaks system which has a single well of 250 gpm and a calculated U&U of 10.00% and; the Twin Rivers system which has a single well of 268 gpm and a calculated U&U of 27.97%.

Q. DO YOU HAVE ANY COMMENTS REGARDING MR. GUASTELLA'S U&U CALCULATIONS OTHER THAN THE DIFFERENCES IN METHODOLOGIES USED IN YOUR TESTIMONY?

A. In his U&U calculations Mr. Guastella rounds any calculated U&U percentage over 90%, up to 100%. This rounding over estimates the actual U&U of a system at the expense of the customers. I find that it is appropriate to let the U&U percentage remain as calculated without rounding up, which would favor the company, or rounding down, which would favor the customers.

Q. WHAT COMMENTS DO YOU HAVE REGARDING MR. GUASTELLA'S TREATMENT OF U&U FOR WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS?

A. Mr. Guastella's U&U calculations for the water and wastewater piping always use the number of lots served by lines in the denominator. For the numerator he uses the greater of the customers identified on the MFR maps or the flow based ERCs. This does not provide an accurate representation of the usage of the system and seeks to achieve the

highest U&U for the system. When calculating U&U it is important to recognize that the units of the numerator and denominator are comparable, or "apples to apples". So an appropriate U&U calculation would use either developed lots to available lots or ERCs to available ERCs.

Q. WHAT OTHER COMMENTS DO YOU HAVE REGARDING MR. GUASTELLA'S TESTIMONY?

A. Mr. Guastella's testimony indicates that he only applies used and useful for wastewater system piping to the gravity collection system, and not to force mains and lift stations. I find that this assumption ignores the fact that the collection lines, force mains and lift stations act as a system to convey wastewater from the customers to the wastewater treatment plant. In evaluating the used and useful of a wastewater system prudent design would dictate that the lift stations and force mains are sized in a manner consistent with the gravity system. Therefore if a collection system is 50% used and useful it follows that the corresponding force mains and lift stations would have a similar U&U of 50%.

Q. WHAT ARE YOUR COMMENTS REGARDING MR. GUASTELLA'S APPLICATION OF WATER TREATMENT U&U PERCENTAGES TO PLANT ACCOUNTS?

A. I disagree with selective application of the percentages to the accounts under the Source of Supply and Water Treatment. The U&U percentages for treatment should apply to all accounts under these headings. To eliminate plant accounts from used and useful consideration serves to increase the rate base and misrepresent the actual amount of plant investment serving customers. Within the basic assumptions of U&U, is a recognition that the facilities as a whole are considered U&U even though the basis of calculation relies upon specific components of a treatment facility. In the case of water

treatment facilities it is the wells that serve as the basis for the U&U of the entire treatment facility.

Specifically in his testimony Mr. Guastella states the water treatment equipment is considered 100% U&U because it relates to chemical feed equipment for which the cost does not fluctuate with demands. The cost of the pump itself does not fluctuate with demands but if it is only operating at 50% capacity it is certainly not 100% U&U.

Q. WHAT IS YOUR OPINION OF MR. GUASTELLA'S USE OF SYSTEM BUILD OUT TO DETERMINE U&U?

A. Mr. Guastella treats eight systems as 100% U&U because the system are "fully developed as planned". I find that this criteria does not follow the build out language contained in Rule No. 25-30.4325, F.A.C. The rule states that a water treatment system is considered 100% U&U if the service territory the system is designed to serve is built out and there is no apparent potential for expansion of the service territory. In my review of the systems I found that application of this criteria applies to only four water systems. In addition, in some cases it appears that "fully developed as planned" does not consider that fact that there are available lots for service in a service area.

Q. WHAT IS THE IMPORTANCE OF SECONDARY DRINKING WATER STANDARDS TO WATER SYSTEMS?

A. Secondary Drinking Water Standards focus on contaminants that adversely affect the appearance, odor or taste of the water. These standards were promulgated by the EPA in 1979 and have also been adopted by FDEP. These standards are not directly tied to public health like Primary Drinking Water Standards and are not enforceable. Nevertheless, they represent reasonable goals for drinking water quality and are considered industry wide to be the standards that pertain to the aesthetics of the water. As such, whether a utility meets or exceeds these standards speaks directly to the quality of service provided.

Q. DOES THAT CONCLUDE YOUR TESTIMONY AT THIS TIME?

A. Yes.

EXHIBIT ATW-1

RESUME

TETRA TECH

Andrew T. Woodcock, P.E., M.B.A.

Senior Project Manager

Mr. Woodcock has been involved with many different facets of environmental engineering including planning, design, and permitting of both water and wastewater treatment facilities, wastewater collection systems, pipeline systems, pumping stations and effluent disposal systems. He has special expertise in utility due diligence investigations, utility valuations, financial feasibility analyses and business plans. He is also experienced in the preparation and review of capital improvement programs, master planning and water and wastewater impact fees.

Project Role:
Senior Project Manager

Education:
B.S.E., University of Central Florida, 1988

M.S.E., University of Central Florida, 1989

M.B.A., Rollins College, 2001

Registrations/Certifications:
Professional Engineer, Florida, No. 47118

Professional Affiliations:
Water Environment Federation

American Water Works Association

Florida Stormwater Association

Office:
Orlando, Florida

Years of Experience:
17

Years with Tetra Tech:
16

EXPERIENCE

Mr. Woodcock's major design and planning experience includes the design, and permitting functions associated with several water and wastewater projects. Representative water projects include the Venice Gardens Utilities Center Road WTP 0.6 MGD RO facility expansion and the City of Port St. Lucie wellfield expansion. Wastewater design projects include the 0.5 MGD expansion to the Deltona Lakes WWTP and the 1.6 MGD expansion to the City of Sanibel's WWTP both of which include treatment to public access reuse standards.

Mr. Woodcock's water and wastewater utility planning experience includes several master plans and capital improvements programs. Recent planning projects include the City of Deltona Water and Wastewater Master Plans, the City of Bartow Water Master Plan, and the Marion County Utility Consolidation Program.

Mr. Woodcock has participated in over 60 water and wastewater utility valuations and acquisitions for utility systems located throughout the Southeast United States. The acquisition projects cover a wide range of utility system configurations and sizes and include engineering due diligence inspections, valuations, and financing activities associated with the transactions. Major projects include the City of Peachtree City GA acquisition of Georgia Utilities Company, the City of Winter Haven FL acquisition of Garden Grove Water Company and the acquisition of the Deltona and Marion County systems from Florida Water Services Corp.

Additionally, Mr. Woodcock has experience in the review and analysis of water and wastewater utility impact fees and utility financial feasibility studies in support of capital funding including studies for the Cities of Apopka, Naples, and Bartow, Pasco County and the Tohopekaliga Water Authority.

Specific Recent Project Experience Includes:

Deltona, Florida

Utility Acquisition of Florida Water Services Corp (2003)

Consulting Engineers Report, Series 2003; Utility System Revenue Bonds, $81.72 million.

Water and Wastewater Impact Fee Study (2005)

TETRA TECH

Andrew T. Woodcock, P.E., M.B.A.
Senior Project Manager

Water and Wastewater Rate Study (2006)
Utility Replacement Cost Study (2004)

Marion County Florida
Water and Wastewater Impact Fee Study (2005)
Utility Acquisition of Florida Water Services (2003)
Utility Acquisition of AP Utilities, Palm Bay Utilities, Oak Run Utilities, Pine Run Utilities, Quail Meadow Utilities
Consulting Engineering Report, Series 2003; Utility System Revenue Bonds, $40.19 million
Consulting Engineers Report, Series 2001; Utility System Revenue Bonds, $27.27 million
Water and Wastewater Utility Master Plan (2005)
City of Orlando, Florida - Research Park Economic Impact Evaluation (2005)
Collier County, Florida - Utility Regulatory Services – Orangetree Utilities (2004)
St. Johns County, Florida - Utility Regulatory Services – Intercoastal Utilities (2002, 2005)
Pasco County, Florida
Acquisition Feasibility Program (2001)
Acquisition of East Pasco Utilities and Forrest Hills Utilities (2002)
Utility Valuation of Lindrick Utilities and Hudson Utilities (2004)
Comprehensive Water, Wastewater and Reclaimed Water Rate and Charge Study (2003, 2007)
Reclaimed Water Rate Study (2005)
Water, Wastewater, and Reclaimed Water Impact Fee Review (2005)
Series 2006 Water and Sewer Refunding Revenue Bonds, $71.16 million
Series 2008 Water and Sewer Revenue Bonds, $182 million
City of Naples Florida
Reclaimed Water Project Assessment and Funding Program (2006)
Comprehensive Water, Wastewater and Reclaimed Water Rate Study (2007)
Stormwater Utility Financial Review (2007)
City of Minneola, Florida
Water Impact Fee Update (2006)
Stormwater Utility Rate Study (2006)
State of Florida - Office of Public Counsel
Utility Regulatory Services – Aqua America Utilities (2007)
Utility Regulatory Services – Water Used and Useful Rule (2008)
Utility Regulatory Services – KW Resort Utilities (2008)

PAPERS/PRESENTATIONS

"Water and Wastewater Impact Fees: An Overview" Alabama Water Pollution Control Association, July 28, 2008.

EXHIBIT ATW-2

WATER USED AND USEFUL

System	Treatment		Storage		Notes
	U&U	Non U & U	U&U	Non U & U	
48 Estates	100.00%	0.00%	0.00%	100.00%	One well
49th Street Villas	99.00%	1.00%	0.00%	100.00%	Marion System: One well
Arredondo Combined	76.94%	23.06%	0.00%	100.00%	
Beecher's Point	0.00%	100.00%	0.00%	100.00%	Interconnected
Belleaire	99.00%	1.00%	0.00%	100.00%	Marion System: One well
Bellview Hills Estates	99.00%	1.00%	0.00%	100.00%	Marion System
Bellview Hills	99.00%	1.00%	0.00%	100.00%	Marion System
Carlton Village	92.58%	7.42%	0.00%	100.00%	
Chappell Hill	99.00%	1.00%	0.00%	100.00%	Marion System: One well
Chuluota	86.24%	13.76%	100.00%	0.00%	Fire Hydrants not provided throughout service area.
East Lake Harris	49.03%	50.97%	0.00%	100.00%	Interconnected with Friendly Center
Fairfax Hills	99.00%	1.00%	0.00%	100.00%	Marion System; At buildout but potential for expansion
Fern Terrace	56.17%	43.83%	0.00%	100.00%	One well, but large well with low U&U
Friendly Center	49.03%	50.97%	0.00%	100.00%	Interconnected with East Lake Harris
Gibsonia Estates	64.18%	35.82%	0.00%	100.00%	
Grand Terrace	100.00%	0.00%	0.00%	100.00%	One well system with fire flow
Haines Creek	100.00%	0.00%	0.00%	100.00%	One well
Harmony Homes	100.00%	0.00%	0.00%	100.00%	Interconnected; No potential for service area expansion
Hawks Point	99.00%	1.00%	0.00%	100.00%	Marion System; Serivce Area Built out no potential for exp.
Hermits Cove	30.83%	69.17%	100.00%	0.00%	Interconnected with St Johns Highlands
Hobby Hills	38.50%	61.50%	0.00%	100.00%	Maps show no fire hydrants or sufficiennt ly sized lines
Holiday Haven	0.00%	100.00%	0.00%	100.00%	Interconnected
Imperial Mobile Terrace	100.00%	0.00%	0.00%	100.00%	Service area builtout with no potential for expansion, Maps show no hydrants or sufficiently sized lines
Interlachen - Park Manor	93.27%	6.73%	100.00%	0.00%	
Jasmine Lakes	100.00%	0.00%	100.00%	0.00%	Service area builtout with no potential for expansion.
Jungle Den	0.00%	100.00%	0.00%	100.00%	Interconnected
Kings Cove	100.00%	0.00%	0.00%	100.00%	Can provide fire flow
Kingswood	0.00%	100.00%	0.00%	100.00%	Interconnected
Lake Gibson Estates	100.00%	0.00%	0.00%	100.00%	
Lake Josephine	28.17%	71.83%	100.00%	0.00%	interconnected with Sebring Lakes
Lake Suzy	0.00%	100.00%	0.00%	100.00%	Interconnected
Leisure Lakes	100.00%	0.00%	100.00%	0.00%	
Lake Osbourne Estates	0.00%	100.00%	0.00%	100.00%	Interconnected
Marion Hills	99.00%	1.00%	0.00%	100.00%	Marion System; One well
Morningview	100.00%	0.00%	0.00%	100.00%	One well, can provide fire flow
Oakwood	0.00%	100.00%	0.00%	100.00%	Interconnected
Ocala Oaks	99.00%	1.00%	0.00%	100.00%	Marion System
Orange Hill - Sugar Creek	100.00%	0.00%	0.00%	100.00%	
Palms MHP	100.00%	0.00%	0.00%	100.00%	One well
Palm Port	100.00%	0.00%	100.00%	0.00%	One well
Palm Terrace	0.00%	100.00%	0.00%	100.00%	Interconnected
Picciola Island	73.99%	26.01%	0.00%	100.00%	
Pomona Park	100.00%	0.00%	0.00%	100.00%	
Piney Woods	52.06%	47.94%	100.00%	0.00%	
Quail Ridge	100.00%	0.00%	0.00%	100.00%	One well, Can provide fire flow
Ravenswood	100.00%	0.00%	0.00%	100.00%	One well
Ridgeview	99.00%	1.00%	0.00%	100.00%	Marion System
River Grove	100.00%	0.00%	100.00%	0.00%	One well
Rosalie Oaks	10.00%	90.00%	0.00%	100.00%	One well but large well with low U&U
St Johns Highlands	30.83%	69.17%	100.00%	0.00%	interconnected with Hermits Cove
Sebring Lakes	28.17%	71.83%	100.00%	0.00%	interconenected with Lake Josephine
Silver Lakes Estates	88.75%	11.25%	100.00%	0.00%	Fire Hydrants not provided throughout service area.
Silver Lakes Oaks	100.00%	0.00%	100.00%	0.00%	One well
Skycrest	67.38%	32.62%	0.00%	100.00%	Fire Hydrants not provided throughout service area.
Stone Mountain	100.00%	0.00%	0.00%	100.00%	One well
Summit Chase	100.00%	0.00%	0.00%	100.00%	Can provide fire flow
Sunny Hills Combined	82.50%	17.50%	100.00%	0.00%	Fire Hydrants not provided throughout service area.
Tangerine	100.00%	0.00%	0.00%	100.00%	Fire Hydrants not provided throughout service area.
Tomoka-Twin Rivers	46.60%	53.40%	100.00%	0.00%	One well but large well with low U&U (Twin Rivers)
Valenica Terrace	100.00%	0.00%	0.00%	100.00%	Can provide fire flow
Venetian Village	74.01%	25.99%	0.00%	100.00%	
Village Water	0.00%	100.00%	0.00%	100.00%	Interconnected
Welaka Saratgoa Harbour	53.32%	46.68%	100.00%	0.00%	
Westview	99.00%	1.00%	0.00%	100.00%	Marion System; One well
Woodbury Forest	99.00%	1.00%	0.00%	100.00%	Marion System; One well
Wootens	100.00%	0.00%	100.00%	0.00%	One well system
The Woods	100.00%	0.00%	100.00%	0.00%	One well system
Zephyr Shores	20.32%	79.68%	0.00%	100.00%	

Marion Combined

System	Connections	U&U	Weighting Factor
49th Street Villas	102	100.00%	102.00
Belleaire	216	100.00%	216.00
Bellview Hills Estates	318	100.00%	318.00
Bellview Hills	143	100.00%	143.00
Chappell Hill	40	100.00%	40.00
Fairfax Hills	85	84.85%	72.12
Hawks point	128	100.00%	128.00
Marion Hills	29	100.00%	29.00
Ocala Oaks	627	100.00%	627.00
Ridgeview	39	84.14%	32.82
Westview	28	100.00%	28.00
Woodbury Forest	143	100.00%	143.00
Total	**1898**		**1878.94**
Averaged Used and Useful			99.00%

Arredondo Combined

System	Connections	Used and Useful	Weighting Factor
Arredondo Estates	271	89.99%	243.87
Arredondo Farms	439	68.89%	302.42
Total	**710**		**546.29**
Averaged Used and Useful			76.94%

Tomoka/Twin Rivers Combined

System	Connections	Used and Useful	Weighting Factor
Tomoka	194	50.79%	98.54
Twin Rivers	44	28.11%	12.37
Total	**238**		**110.91**
Averaged Used and Useful			46.60%

48 Estates

Total Gallons Pumped/Purchased (1,000 gal)		9,893	
Maximum Day Flow (gpd)		50,100	matches MFRs
Calculated Peak Hour Flow (gpd)		100,200	
Peak Factor		2	
Maximum Day Flow (gpm)		34.79	
Calculated Peak Hour Flow (gpm)		69.58	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	8.2%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		34.79	
Calculated Peak Hour Flow (gpm)		69.58	
GROWTH ADJUSTMENT			
2007 Avg ERCs		83.0	From MFRs
2012 Avg ERCs trended		92.5	From MFRs
Growth Factor		1.11	
Adjusted Flows			
Maximum Day Flow (gpm)		38.77	
Calculated Peak Hour Flow (gpm)		77.55	
Required Fire Flow (gpm)		0	matches MFRs
Wells			
80 gpm			Matches MFRs
gpm			
Total 80			
Firm 80			
Treatment Used and Useful			
Firm Capacity (gpm)	80		
Peak Hour Flow (gpm)	78		
Calculated Used and Useful	96.93%		
U&U Treatment	100.00%		One well system
U&U Storage	0.00%		

49th Street Village

Total Gallons Pumped/Purchased (1,000 gal)			Not reported in MFRs
Maximum Day Flow (gpd)		56,000	From MORs
Calculated Peak Hour Flow (gpd)		112,000	
Peak Factor		2	
Maximum Day Flow (gpm)		38.89	
Calculated Peak Hour Flow (gpm)		77.78	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	0.0%		Not reported in MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		38.89	
Calculated Peak Hour Flow (gpm)		77.78	
GROWTH ADJUSTMENT			
2007 Avg ERCs		1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended		1,892.1	From MFRs Ocala Oaks
Growth Factor		1.07	
Adjusted Flows			
Maximum Day Flow (gpm)		41.58	
Calculated Peak Hour Flow (gpm)		83.15	
Required Fire Flow (gpm)		0	Not reported in MFRs
Wells			
	80 gpm		Not reported in MFRs
	gpm		
Total	80		
Firm	80		
Treatment Used and Useful			
Firm Capacity (gpm)	80		
Peak Hour Flow (gpm)	83		
Calculated Used and Useful	100.00%		
U&U Treatment	100.00%		One well system
U&U Storage	0.00%		

Arredondo Estates

Total Gallons Pumped/Purchased (1,000 gal)		49,337	From MFRs
Maximum Day Flow (gpd)		101,000	Matches MFRs
Calculated Peak Hour Flow (gpd)		202,000	
Peak Factor		2	
Maximum Day Flow (gpm)		70.14	
Calculated Peak Hour Flow (gpm)		140.28	
Peak Factor		2	
Unaacounted for Water Adjustment			
UAW	27.2%		From MFRs
Excess	17.2%		
Adjustment (gpm)		16.1	
Adjusted Flows			
Maximum Day Flow (gpm)		53.99	
Calculated Peak Hour Flow (gpm)		107.99	
GROWTH ADJUSTMENT			
2007 Avg ERCs		534.9	From MFRs
2012 Avg ERCs trended		523.6	From MFRs
Growth Factor		1.00	Actual less than 1
Adjusted Flows			
Maximum Day Flow (gpm)		53.99	
Calculated Peak Hour Flow (gpm)		107.99	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	120 gpm		Matches MFRs
	120 gpm		Matches MFRs
Total	240		
Firm	120		
Treatment Used and Useful			
Firm Capacity (gpm)	120		
Peak Hour Flow (gpm)	108		
Calculated Used and Useful	*89.99%*		
U&U Treatment	89.99%		
U&U Storage	0.00%		

Arredondo Farms

Total Gallons Pumped/Purchased (1,000 gal)		49,337	Not Reported in MFRs
Maximum Day Flow (gpd)		124,000	Matches MORs not in MFRs
Calculated Peak Hour Flow (gpd)		248,000	
Peak Factor		2	
Maximum Day Flow (gpm)		86.11	
Calculated Peak Hour Flow (gpm)		172.22	
Peak Factor		2	
Unaacounted for Water Adjustment			
UAW	5.5%		
Excess	0.0%		
Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		86.11	
Calculated Peak Hour Flow (gpm)		172.22	
GROWTH ADJUSTMENT			
2007 Avg ERCs		534.9	From MFRs
2012 Avg ERCs trended		523.6	From MFRs
Growth Factor		1.00	Acutal less than 1
Adjusted Flows			
Maximum Day Flow (gpm)		86.11	
Calculated Peak Hour Flow (gpm)		172.22	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	250 gpm		Matches MFRs
	300 gpm		Matches MFRs
Total	550		
Firm	250		
Treatment Used and Useful			
Firm Capacity (gpm)	250		
Peak Flow (gpm)	172		
Calculated Used and Useful	68.89%		
U&U Treatment	68.89%		
U&U Storage	0.00%		

Bellaire

Total Gallons Pumped/Purchased (1,000 gal)		Not reported in MFRs
Maximum Day Flow (gpd)	*159,000*	*Matches MORs not in MFRs*
Calculated Peak Hour Flow (gpd)	318,000	
Peak Factor	2	
Maximum Day Flow (gpm)	110.42	
Calculated Peak Hour Flow (gpm)	220.83	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	0.0%	Not reported in MFRs
Excess	0.0%	
UAW Adjustment (gpm)	0.0	
Adjusted Flows		
Maximum Day Flow (gpm)	110.42	
Calculated Peak Hour Flow (gpm)	220.83	
GROWTH ADJUSTMENT		
2007 Avg ERCs	1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended	1,892.1	From MFRs Ocala Oaks
Growth Factor	1.07	
Adjusted Flows		
Maximum Day Flow (gpm)	118.05	
Calculated Peak Hour Flow (gpm)	236.09	
Required Fire Flow (gpm)	0	Not reported in MFRs

Wells

92 gpm		Not reported in MFRs
92 gpm		Not reported in MFRs
Total 184		
Firm 92		

Treatment Used and Useful

Firm Capacity (gpm)	92
Peak Flow (gpm)	236
Calculated Used and Useful	100.00%
U&U Treatment	100.00%
U&U Storage	0.00%

Bellview Hills

Total Gallons Pumped/Purchased (1,000 gal)		Not reported in MFRs
Maximum Day Flow (gpd)	*53,000*	*Matches MORs not in MFRs*
Calculated Peak Hour Flow (gpd)	106,000	
Peak Factor	2	
Maximum Day Flow (gpm)	36.81	
Calculated Peak Hour Flow (gpm)	73.61	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	0.0%	Not reported in MFRs
Excess	0.0%	
UAW Adjustment (gpm)	0.0	
Adjusted Flows		
Maximum Day Flow (gpm)	36.81	
Calculated Peak Hour Flow (gpm)	73.61	
GROWTH ADJUSTMENT		
2007 Avg ERCs	1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended	1,892.1	From MFRs Ocala Oaks
Growth Factor	1.07	
Adjusted Flows		
Maximum Day Flow (gpm)	39.35	
Calculated Peak Hour Flow (gpm)	78.70	
Required Fire Flow (gpm)	0	Not reported in MFRs

Wells

	70 gpm	Not reported in MFRs
	70 gpm	Not reported in MFRs
Total	140	
Firm	70	

Treatment Used and Useful

Firm Capacity (gpm)	70
Peak Flow (gpm)	79
Calculated Used and Useful	100.00%
U&U Treatment	100.00%
U&U Storage	0.00%

Bellview Hills Estates

Total Gallons Pumped/Purchased (1,000 gal)		Not reported in MFRs
Maximum Day Flow (gpd)	146,000	Matches MORs, not in MFRs
Calculated Peak Hour Flow (gpd)	292,000	
Peak Factor	2	
Maximum Day Flow (gpm)	101.39	
Calculated Peak Hour Flow (gpm)	202.78	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	0.0%	Not reported in MFRs
Excess	0.0%	
UAW Adjustment (gpm)	0.0	
Adjusted Flows		
Maximum Day Flow (gpm)	101.39	
Calculated Peak Hour Flow (gpm)	202.78	
GROWTH ADJUSTMENT		
2007 Avg ERCs	1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended	1,892.1	From MFRs Ocala Oaks
Growth Factor	1.07	
Adjusted Flows		
Maximum Day Flow (gpm)	108.40	
Calculated Peak Hour Flow (gpm)	216.79	
Required Fire Flow (gpm)	0	Not reported in MFRs
Wells		
200 gpm		Not reported in MFRs
200 gpm		Not reported in MFRs
Total 400		
Firm 200		

Treatment Used and Useful

Firm Capacity (gpm)	200
Peak Flow (gpm)	217
Calculated Used and Useful	100.00%
U&U Treatment	100.00%
U&U Storage	0.00%

Carlton Village

Total Gallons Pumped/Purchased (1,000 gal)		19,409	From MFRs
Maximum Day Flow (gpd)		106,800	Does not Match F-3 of MFRs, F-3 does not refect MOR data
Calculated Peak Hour Flow (gpd)		213,600	
Peak Factor		2	
Maximum Day Flow (gpm)		74.17	
Calculated Peak Hour Flow (gpm)		148.33	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	6.1%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		74.167	
Calculated Peak Hour Flow (gpm)		148.333	
GROWTH ADJUSTMENT			
2007 Avg ERCs		236.5	From MFRs
2012 Avg ERCs trended		295.2	From MFRs
Growth Factor		1.25	Capped at 1.25
Adjusted Flows			
Maximum Day Flow (gpm)		92.58	
Calculated Peak Hour Flow (gpm)		185.15	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	200 gpm		Matches MFRs
	200 gpm		Matches MFRs
Total	400		
Firm	200		
Treatment Used and Useful			
Firm Capacity (gpm)	200		
Peak Hour Flow (gpm)	185		
Caculated Used and Useful	92.58%		
U&U Treatment	92.58%		
U&U Storage	0.00%		

Chappell Hill

Total Gallons Pumped/Purchased (1,000 gal)			Not reported in MFRs
Maximum Day Flow (gpd)		80,000	Matches MORs, not in MFRs
Calculated Peak Hour Flow (gpd)		160,000	
Peak Factor		2	
Maximum Day Flow (gpm)		55.56	
Calculated Peak Hour Flow (gpm)		111.11	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW		0.0%	Not reported in MFRs
Excess		0.0%	
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		55.56	
Calculated Peak Hour Flow (gpm)		111.11	
GROWTH ADJUSTMENT			
2007 Avg ERCs		1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended		1,892.1	From MFRs Ocala Oaks
Growth Factor		1.07	
Adjusted Flows			
Maximum Day Flow (gpm)		59.39	
Calculated Peak Hour Flow (gpm)		118.79	
Required Fire Flow (gpm)		0	Not reported in MFRs
Wells			
	70 gpm		Not reported in MFRs
	gpm		
Total	70		
Firm	70		

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	70	
Peak Flow (gpm)	119	
Calculated Used and Useful	100.00%	
U&U Treatment	100.00%	One well system
U&U Storage	0.00%	

Chuluota

Total Gallons Pumped/Purchased (1,000 gal)		182,349	From MFRs
Maximum Day Flow (gpd)		839,900	MORs show a Max Day of 962,000 gpd
Calculated Peak Hour Flow (gpd)		1,679,800	Used MFR flow assuming 962,000 is an anomaly.
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	12.4%		From MFRs
Excess	2.4%		
UAW Adjustment (gpd)		11,990	
Adjusted Flows			
Maximum Day Flow (gpd)		827,910	
Calculated Peak Hour Flow (gpd)		1,655,820	
GROWTH ADJUSTMENT			
2007 Avg ERCs		1,419.7	From MFRs
2012 Avg ERCs trended		1,902.2	From MFRs
Growth Factor		1.25	Capped at 1.25
Adjusted Flows			
Maximum Day Flow (gpm)		1,034,887	
Calculated Peak Hour Flow (gpm)		2,069,775	
Required Fire Flow (gpm)		0	Fire Hydrants not provided throughout service area.

Wells

	500 gpm
	500 gpm
	500 gpm
	250 gpm
Total	1750
Firm	1250

Adjusted Firm Capacity (16 hrs) (gpd)		1,200,000

Storage

Volume	450,000	gals
Adjust	0.9	
Usable Volume	405,000	gals
Max Day (gal)	1,034,887	gals
Factor	1	
Max Day Volume	1,034,887	gals
Fire Flow	0	gpm
Fire Flow Duration	2	hrs
Fire Volume	0	gals
Total	1,034,887	gals
Used and Useful	100.00%	

Treatment Used and Useful

Firm Capacity (gpd)	1,200,000
Max Day (gpd)	1,034,887
Fire Flows (gpd)	0
Adjusted Max Day (gpd)	1,034,887
Used and Useful	86.24%
U&U Treatment	86.24%
U&U Storage	100.00%

East Lake Harris - Friendly Center

Total Gallons Pumped/Purchased (1,000 gal)		7,835	From ELkH MFRs, 0 reported for FriCntr
Maximum Day Flow (gpd)		*35,300*	*Matches MFRs*
Calculated Peak Hour Flow (gpd)		70,600	
Peak Factor		2	
Maximum Day Flow (gpm)		24.51	
Calculated Peak Hour Flow (gpm)		49.03	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	6.7%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		24.51	
Calculated Peak Hour Flow (gpm)		49.03	
GROWTH ADJUSTMENT			
2007 Avg ERCs		204	From MFRs East Lake Harris and Friendly Center
2012 Avg ERCs trended		201	From MFRs East Lake Harris and Friendly Center
Growth Factor		1.00	Actual less than 1
Adjusted Flows			
Maximum Day Flow (gpm)		24.51	
Calculated Peak Hour Flow (gpm)		49.03	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	100 gpm		Matches MFRs
	200 gpm		Matches MFRs
Total	300		
Firm	100		
Treatment Used and Useful			
Firm Capacity (gpm)		100	
Peak Hour Flow (gpm)		49	
Used and Useful		49.03%	
U&U Treatment		49.03%	
U&U Storage		0.00%	

Fairfax Hills

Total Gallons Pumped/Purchased (1,000 gal)			Not reported in MFRs
Maximum Day Flow (gpd)		40,000	Matches MORs, not in MFRs
Calculated Peak Hour Flow (gpd)		80,000	
Peak Factor		2	
Maximum Day Flow (gpm)		27.78	
Calculated Peak Hour Flow (gpm)		55.56	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW		0.0%	*Not reported in MFRs*
Excess		0.0%	
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		27.78	
Calculated Peak Hour Flow (gpm)		55.56	
GROWTH ADJUSTMENT			
2007 Avg ERCs		1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended		1,892.1	From MFRs Ocala Oaks
Growth Factor		1.07	
Adjusted Flows			
Maximum Day Flow (gpm)		29.70	
Calculated Peak Hour Flow (gpm)		59.39	
Required Fire Flow (gpm)		0	Not reported in MFRs
Wells			
	70 gpm		Not reported in MFRs
	70 gpm		Not reported in MFRs
Total	140		
Firm	70		

Treatment Used and Useful		
Firm Capacity (gpm)	70	
Peak Flow (gpm)	59	
Used and Useful	84.85%	
U&U Treatment	84.85%	Service Area built out; but potential for service area expansion
U&U Storage	0.00%	

Fern Terrace

Total Gallons Pumped/Purchased (1,000 gal)		35,354	From MFRs
Maximum Day Flow (gpd)		70,400	Matches MFRs
Calculated Peak Hour Flow (gpd)		140,800	
Peak Factor		2	
Maximum Day Flow (gpm)		48.89	
Calculated Peak Hour Flow (gpm)		97.78	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	8.6%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		48.89	
Calculated Peak Hour Flow (gpm)		97.78	
GROWTH ADJUSTMENT			
2007 Avg ERCs		123.3	From MFRs
2012 Avg ERCs trended		127.5	From MFRs
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpm)		50.55	
Calculated Peak Hour Flow (gpm)		101.11	
Required Fire Flow (gpm)		0	From MFRs
Wells			
	180 gpm		From MFRs
	gpm		
Total	180		
Firm	180		

Treatment Used and Useful

Firm Capacity (gpm)	180	
Peak Hour Flow (gpm)	*101*	
Used and Useful	56.17%	
U&U Treatment	56.17%	One well system; but well is greater than 150 gpm and U&U is less than 75%
U&U Storage	0.00%	

Gibsonia Estates

Total Gallons Pumped/Purchased (1,000 gal)		20,306	From MFRs
Maximum Day Flow (gpd)		78,500	Matches MFRs
Calculated Peak Hour Flow (gpd)		157,000	
Peak Factor		2	
Maximum Day Flow (gpm)		54.51	
Calculated Peak Hour Flow (gpm)		109.03	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	6.3%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		54.51	
Calculated Peak Hour Flow (gpm)		109.03	
GROWTH ADJUSTMENT			
2007 Avg ERCs		201.6	From MFRs
2012 Avg ERCs trended		213.6	From MFRs
Growth Factor		1.06	
Adjusted Flows			
Maximum Day Flow (gpm)		57.76	
Calculated Peak Hour Flow (gpm)		115.52	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	305 gpm		Verified through on-site O&M manual
	180 gpm		Verified through on-site O&M manual
Total	485		
Firm	180		
Treatment Used and Useful			
Firm Capacity (gpm)		180	
Peak Flow (gpm)		116	
Used and Useful		64.18%	
U&U Treatment		64.18%	
U&U Storage		0.00%	

Grand Terrace

Total Gallons Pumped/Purchased (1,000 gal)		10,513	From MFRs
Maximum Day Flow (gpd)		65,500	MORs show a Max Day of 81,500 gpd
Calculated Peak Hour Flow (gpd)		131,000	Used MFR flow assuming 81,500 is an anomaly.
Peak Factor		2	
Maximum Day Flow (gpm)		45.49	
Calculated Peak Hour Flow (gpm)		90.97	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	8.1%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0	
Adjusted Flows			
Maximum Day Flow (gpm)		45.49	
Calculated Peak Hour Flow (gpm)		90.97	
GROWTH ADJUSTMENT			
2007 Avg ERCs		108.0	From MFRs
2012 Avg ERCs trended		108.6	From MFRs
Growth Factor		1.01	
Adjusted Flows			
Maximum Day Flow (gpm)		45.74	
Calculated Peak Hour Flow (gpm)		91.48	
Required Fire Flow (gpm)		500	Does not match MFRs but system is clearly designed for it
Wells			
	600 gpm		Matches MFRs
	gpm		
Total	600		
Firm	600		
Treatment Used and Useful			
Firm Capacity (gpm)	600		
Peak Hour Flow (gpm)	591		
Used and Useful	98.58%		
U&U Treatment	100.00%		One well system
U&U Storage	0.00%		

Haines Creek

Total Gallons Pumped/Purchased (1,000 gal)		8,017	From MFRs
Maximum Day Flow (gpd)		40,400	MORs show a Max Day of 92,100 gpd
Calculated Peak Hour Flow (gpd)		80,800	Used MFR flow assuming 92,100 is an anomaly.
Peak Factor		2	
Maximum Day Flow (gpm)		28.06	
Calculated Peak Hour Flow (gpm)		56.11	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	12.1%		From MFRs
Excess	2.1%		
UAW Adjustment (gpm)		0.3	
Adjusted Flows			
Maximum Day Flow (gpm)		27.74	
Calculated Peak Hour Flow (gpm)		55.47	
GROWTH ADJUSTMENT			
2007 Avg ERCs		107.0	From MFRs
2012 Avg ERCs trended		112.2	From MFRs
Growth Factor		1.05	
Adjusted Flows			
Maximum Day Flow (gpm)		29.08	
Calculated Peak Hour Flow (gpm)		58.17	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	90 gpm		Matches MFRs
	gpm		
Total	90		
Firm	90		
Treatment Used and Useful			
Firm Capacity (gpm)	90		
Peak Flow (gpm)	58		
Used and Useful	64.63%		
U&U Treatment	100.00%		One well system
U&U Storage	0.00%		

Harmony Homes

Total Gallons Pumped/Purchased (1,000 gal)		5,564	From MFRs
Maximum Day Flow (gpd)		22,900	MORs show a Max Day of 50,600 gpd
Calculated Peak Hour Flow (gpd)		45,800	Used MFR flow assuming 50,600 is an anomaly.
Peak Factor		2	
Average Day Flow (gpm)		3.86	
Maximum Day Flow (gpm)		15.90	
Calculated Peak Hour Flow (gpm)		31.81	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	20.7%		From MFRs
Excess	10.7%		
UAW Adjustment (gpm)		4.7	
Adjusted Flows			
Maximum Day Flow (gpm)		11.24	
Calculated Peak Hour Flow (gpm)		22.48	
GROWTH ADJUSTMENT			
2007 Avg ERCs		60.0	From MFRs
2012 Avg ERCs trended		61.7	From MFRs
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpm)		11.56	
Calculated Peak Hour Flow (gpm)		23.12	
Required Fire Flow (gpm)		0	From MFRs
Wells			
	150 gpm		Verify
	gpm		
Total	150		
Firm	150		
Treatment Used and Useful			
Firm Capacity (gpm)	150		
Peak Flow (gpm)	23		
Used and Useful	15.41%		
U&U Treatment	100.00%		One well system but there is also an interconnect;
U&U Storage	0.00%		no potential for service area expansion.

Hawks Point

Total Gallons Pumped/Purchased (1,000 gal)			Not submitted in MFRs
Maximum Day Flow (gpd)		64,000	Matches MORs, not in MFRs
Calculated Peak Hour Flow (gpd)		128,000	
Peak Factor		2	
Maximum Day Flow (gpm)		44.44	
Calculated Peak Hour Flow (gpm)		88.89	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW		0.0%	Not submitted in MFRs
Excess		0.0%	
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		44.44	
Calculated Peak Hour Flow (gpm)		88.89	
GROWTH ADJUSTMENT			
2007 Avg ERCs		1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended		1,892.1	From MFRs Ocala Oaks
Growth Factor		1.07	
Adjusted Flows			
Maximum Day Flow (gpm)		47.52	
Calculated Peak Hour Flow (gpm)		95.03	
Required Fire Flow (gpm)		0	Not submitted in MFRs
Wells			
	185 gpm		Not submitted in MFRs
	185 gpm		Not submitted in MFRs
Total	370		
Firm	185		

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	185	
Peak Flow (gpm)	95	
Used and Useful	51.37%	
U&U Treatment	100.00%	Service area built out; no potential for expansion
U&U Storage	0.00%	

Hermits Cove

Total Gallons Pumped/Purchased (1,000 gal)	8,116	From MFRs
Maximum Day Flow (gpd)	44,400	Matches MFRs
Calculated Peak Hour Flow (gpd)	88,800	
Peak Factor	2	

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	-1.2%		From MFRs
Excess	0.0%		
UAW Adjustment (gpd)		0	

Adjusted Flows		
Maximum Day Flow (gpd)	44,400	
Calculated Peak Hour Flow (gpd)	88,800	

GROWTH ADJUSTMENT

2007 Avg ERCs	276.8	From MFRs Hermits Cove and St. Johns Highlands
2012 Avg ERCs trended	268.2	From MFRs Hermits Cove and St. Johns Highlands
Growth Factor	1.00	Actual less than 1.00

Adjusted Flows		
Maximum Day Flow (gpd)	44,400	
Calculated Peak Hour Flow (gpd)	88,800	
Required Fire Flow (gpm)	0	From MFRs

Wells

	150 gpm		
	150 gpm		
	0 gpm		
	0 gpm		
Total	300		
Firm	150		
Adjusted Firm Capacity(16 hrs)(gpd)		144,000	

Storage

	Volume	25,000	gals
Matches MFRs	Adjust	0.9	
Matches MFRs	Usable Volume	22,500	gals
	Max Day (gal)	44,400	gals
	Factor	1	
	Max Day Volume	44,400	gals
	Fire Flow	0	gpm
	Fire Flow Duratio	2	hrs
	Fire Volume	0	gals
	Total	44,400	gals

Treatment Used and Useful

Firm Capacity (gpd)	144,000	
Max Day (gpd)	44,400	
Fire Flows (gpd)	0	
Adjusted Max Day	44,400	
Used and Useful	30.83%	
U&U Treatment	30.83%	
U&U Storage	100.00%	

Used and Useful 100.00%

Hobby Hills

Total Gallons Pumped/Purchased (1,000 gal)		8,394	From MFRs
Maximum Day Flow (gpd)		40,440	Matches MFRs
Calculated Peak Hour Flow (gpd)		80,880	
Peak Factor		2	
Maximum Day Flow (gpm)		28.08	
Calculated Peak Hour Flow (gpm)		56.17	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	*11.9%*		*From MFRs*
Excess	1.9%		
UAW Adjustment (gpm)		0.3	
Adjusted Flows			
Maximum Day Flow (gpm)		27.78	
Calculated Peak Hour Flow (gpm)		55.56	
GROWTH ADJUSTMENT			
2007 Avg ERCs		96.2	From MFRs
2012 Avg ERCs trended		100.0	From MFRs
Growth Factor		1.04	
Adjusted Flows			
Maximum Day Flow (gpm)		28.88	
Calculated Peak Hour Flow (gpm)		57.75	
Required Fire Flow (gpm)		0	Maps show no fire hydrants or sufficiennt ly sized lines
Wells			
	175 gpm		Matches MFRs
	150 gpm		Matches MFRs
Total	325		
Firm	150		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		150	
Peak Flow (gpm)		58	
Used and Useful		38.50%	
Test 2			
Firm Capacity (gpm)		150	
Max Day (gpm)		29	
Fire Flow (gpm)		0	
Peak Flow (gpm)		29	
Used and Useful		19%	
U&U Treatment		38.50%	
U&U Storage		0.00%	

Imperial Mobile Terrace

Total Gallons Pumped/Purchased (1,000 gal)		4,249	From MFRs
Maximum Day Flow (gpd)		30,100	MORs show a Max Day of 77,800 gpd
Calculated Peak Hour Flow (gpd)		60,200	Used MFR flow assuming 77,800 is an anomaly.
Peak Factor		2	
Maximum Day Flow (gpm)		20.90	
Calculated Peak Hour Flow (gpm)		41.81	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	-81.8%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		20.90	
Calculated Peak Hour Flow (gpm)		41.81	
GROWTH ADJUSTMENT			
2007 Avg ERCs		242.5	From MFRs
2012 Avg ERCs trended		244.6	From MFRs
Growth Factor		1.01	
Adjusted Flows			
Maximum Day Flow (gpm)		21.08	
Calculated Peak Hour Flow (gpm)		42.17	
Required Fire Flow (gpm)		0	Maps show no fire hydrants or sufficiennt ly sized lines
Wells			
	400 gpm		Matches MFRs
	100 gpm		Matches MFRs
Total	500		
Firm	100		

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	100	
Peak Flow (gpm)	42	
Used and Useful	42.17%	
Test 2		
Firm Capacity (gpm)	100	
Max Day (gpm)	21	
Fire Flow (gpm)	*0*	
Peak Flow (gpm)	21	
Used and Useful	21%	
U&U Treatment	100.00%	Service area builtout with no potential for expansion
U&U Storage	0.00%	

Interlachen - Park Manor

Total Gallons Pumped/Purchased (1,000 gal)		23,457	From MFRs
Maximum Day Flow (gpd)		*185,200*	*MatchesMFRs*
Calculated Peak Hour Flow (gpd)		370,400	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	47.4%		From MFRs
Excess	37.4%		
UAW Adjustment (gpd)		24,035	
Adjusted Flows			
Maximum Day Flow (gpd)		161,165	
Calculated Peak Hour Flow (gpd)		322,329	
GROWTH ADJUSTMENT			
2007 Avg ERCs		262.3	From MFRs
2012 Avg ERCs trended		249.5	From MFRs
Growth Factor		1.00	Actual less than 1
Adjusted Flows			
Maximum Day Flow (gpd)		161,165	
Calculated Peak Hour Flow (gpd)		322,329	
Required Fire Flow (gpm)		*0*	*From MFRs*

Wells

	180 gpm	Matches MFRs
	180 gpm	Matches MFRs
	0 gpm	
	0 gpm	
Total	360	
Firm	180	

Adjusted Firm Capacity(16 hrs)(gpd)		172,800

Storage

Volume	25,000	gals
Adjust	0.9	
Usable Volume	22,500	gals
Max Day (gal)	161,165	gals
Factor	1	
Max Day Volume	161,165	gals
Fire Flow	0	gpm
Fire Flow Duration	2	hrs
Fire Volume	0	gals
Total	161,165	gals

Treatment Used and Useful

Firm Capacity (gpd)	172,800	
Max Day (gpd)	*161,165*	
Fire Flows (gpd)	0	
Adjusted Max Day	161,165	
Used and Useful	93.27%	
U&U Treatment	93.27%	
U&U Storage	*100.00%*	
Used and Useful	100.00%	

Jasmine Lakes

Total Gallons Pumped/Purchased (1,000 gal)	280,052	From MFRs
Maximum Day Flow (gpd)	585,270	Matches MFRs
Calculated Peak Hour Flow (gpd)	1,170,540	
Peak Factor	2	

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	14.2%		From MFRs
Excess	4.2%		
UAW Adjustment (gpd)		32,225	

Adjusted Flows		
Maximum Day Flow (gpd)	553,045	
Calculated Peak Hour Flow (gpd)	1,106,090	

GROWTH ADJUSTMENT

2007 Avg ERCs	1,588.6	From MFRs
2012 Avg ERCs trended	1,565.5	From MFRs
Growth Factor	1.00	Actual less than one

Adjusted Flows		
Maximum Day Flow (gpd)	553,045	
Calculated Peak Hour Flow (gpd)	1,106,090	
Required Fire Flow (gpm)	0	From MFRs

Wells

	260 gpm	Matches MFRs
	260 gpm	Matches MFRs
	260 gpm	Matches MFRs
	260 gpm	Matches MFRs
Total	1040	
Firm	780	
Adjusted Firm Capacity(16 hrs) (gpd)	748,800	

Storage

Volume	500,000 gals
Adjust	0.9
Usable Volume	450,000 gals
Max Day (gal)	553,045 gals
Factor	1
Max Day Allowance	553,045 gals
Fire Flow	0 gpm
Fire Flow Duration	2 hrs
Fire Volume	0 gals
Total	553,045 gals

Treatment Used and Useful

Firm Capacity (gpd)	748,800	
Max Day (gpd)	553,045	
Fire Flow (gpd)	0	
Adjusted Max Day	553,045	
Used and Useful	73.86%	
U&U Treatment	100.00%	Service area built out with no potential for expansion
U&U Storage	100.00%	

Used and Useful 100.00%

Kings Cove

Total Gallons Pumped/Purchased (1,000 gal)		35,567	From MFRs
Maximum Day Flow (gpd)		210,400	Used MFR flow assuming 362,000 is an anomaly.
Calculated Peak Hour Flow (gpd)		420,800	
Peak Factor		2	
Maximum Day Flow (gpm)		146.11	
Calculated Peak Hour Flow (gpm)		292.22	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	4.5%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		146.11	
Calculated Peak Hour Flow (gpm)		292.22	
GROWTH ADJUSTMENT			
2007 Avg ERCs		204.5	From MFRs
2012 Avg ERCs trended		210.0	From MFRs
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpm)		150.04	
Calculated Peak Hour Flow (gpm)		300.08	
Required Fire Flow (gpm)		500	From MFRs
Wells			
	300 gpm		Matches MFRs
	225 gpm		Matches MFRs
Total	525		
Firm	225		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		225	
Peak Flow (gpm)		300	
Used and Useful		100.00%	
Test 2			
Firm Capacity (gpm)		225	
Max Day (gpm)		150	
Fire Flow (gpm)		500	
Peak Flow (gpm)		650	
Used and Useful		100%	
U&U Treatment		100.00%	
U&U Storage		0.00%	

Lake Gibson Estates

Total Gallons Pumped/Purchased (1,000 gal)		84,069	From MFRs
Maximum Day Flow (gpd)		372,000	Matches MFRs
Calculated Peak Hour Flow (gpd)		744,000	
Peak Factor		2	
Maximum Day Flow (gpm)		258.33	
Calculated Peak Hour Flow (gpm)		516.67	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
Test Year UAW	12.2%		*From MFRs*
Excess UAW	2.2%		
UAW Adjustment (gpm)		3.5	
Adjusted Flows			
Maximum Day Flow (gpm)		254.81	
Calculated Peak Hour Flow (gpm)		509.63	
GROWTH ADJUSTMENT			
2007 Avg ERCs		852.1	From MFRs
2012 Avg ERCs trended		860.7	From MFRs
Growth Factor		1.01	
Adjusted Flows			
Maximum Day Flow (gpm)		257.39	
Calculated Peak Hour Flow (gpm)		514.77	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	700 gpm		Matches MFRs
	400 gpm		Matches MFRs
Total	1100		
Firm	400		

Treatment Used and Useful

Firm Capacity (gpm)	400
Peak Flow (gpm)	515
Used and Useful	100.00%
U&U Treatment	100.00%
U&U Storage	0.00%

Leisure Lakes

Total Gallons Pumped/Purchased (1,000 gal)		9,865	From MFRs
Maximum Day Flow (gpd)		89,000	Matches MFRs
Calculated Peak Hour Flow (gpd)		178,000	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	29.6%		From MFRs
Excess	19.6%		
UAW Adjustment (gpd)		5,297	
Adjusted Flows			
Maximum Day Flow (gpd)		83,703	
Calculated Peak Hour Flow (gpd)		167,405	
GROWTH ADJUSTMENT			
2007 Avg ERCs		274.5	From MFRs
2012 Avg ERCs trended		283.2	From MFRs
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpd)		86,356	
Calculated Peak Hour Flow (gpd)		172,711	
Required Fire Flow (gpm)		0	From MFRs

Wells			**Storage**	
			Volume	10,000 gals
	200 gpm	Matches MFRs	Adjust	0.9
	50 gpm	Matches MFRs	Usable Volume	9,000 gals
	gpm			
	gpm		Max Day (gal)	86,356 gals
Total	250		Factor	1
Firm	50		Max Day Allowance	86,356 gals
			Fire Flow	0 gpm
			Fire Flow Duration	2 hrs
Adjusted Firm Capacity(16 hrs)(gpd)		48,000	Fire Volume	0 gals
			Total	86,356 gals

Treatment Used and Useful

Firm Capacity (gpm)	48,000	Used and Useful	100.00%
Max Day (gpm)	86,356		
Fire Flow (gpm)	0		
Adjusted Max Day	86,356		
Used and Useful	100.00%		
U&U Treatment	100.00%		
U&U Storage	100.00%		

Marion Hills

Total Gallons Pumped/Purchased (1,000 gal)		Not report in MFRs
Maximum Day Flow (gpd)	15,000	Matches MORs, not in MFRs
Calculated Peak Hour Flow (gpd)	30,000	
Peak Factor	2	
Maximum Day Flow (gpm)	10.42	
Calculated Peak Hour Flow (gpm)	20.83	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	0.0%	Not reported in MFRs
Excess	0.0%	
UAW Adjustment (gpm)	0.0	
Adjusted Flows		
Maximum Day Flow (gpm)	10.42	
Calculated Peak Hour Flow (gpm)	20.83	
GROWTH ADJUSTMENT		
2007 Avg ERCs	1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended	1,892.1	From MFRs Ocala Oaks
Growth Factor	1.07	
Adjusted Flows		
Maximum Day Flow (gpm)	11.14	
Calculated Peak Hour Flow (gpm)	22.27	
Required Fire Flow (gpm)	0	Not reported in MFRs
Wells		
50 gpm		Not reported in MFRs
gpm		
Total 50		
Firm 50		

Treatment Used and Useful

Firm Capacity (gpm)	50	
Peak Flow (gpm)	22	
Used and Useful	44.55%	
U&U Treatment	100.00%	One well system
U&U Storage	0.00%	

Morningview

Total Gallons Pumped/Purchased (1,000 gal)		2,976	From MFRs
Maximum Day Flow (gpd)		22,100	Matches MFRs
Calculated Peak Hour Flow (gpd)		44,200	
Peak Factor		2	
Maximum Day Flow (gpm)		15.35	
Calculated Peak Hour Flow (gpm)		30.69	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	8.4%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		15.35	
Calculated Peak Hour Flow (gpm)		30.69	
GROWTH ADJUSTMENT			
2007 Avg ERCs		34.0	From MFRs
2012 Avg ERCs trended		32.3	From MFRs
Growth Factor		1.00	Actual less than 1
Adjusted Flows			
Maximum Day Flow (gpm)		15.35	
Calculated Peak Hour Flow (gpm)		30.69	
Required Fire Flow (gpm)		*500*	Does not match MFRs but system has the hydrants and piping system f
Wells			
	425 gpm		From MFRs
	gpm		
Total	425		
Firm	425		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		425	
Peak Flow (gpm)		*31*	
Used and Useful		7.22%	
Test 2			
Firm Capacity (gpm)		425	
Max Day (gpm)		15	
Fire Flow (gpm)		500	
Peak Flow (gpm)		515	
Used and Useful		100%	
U&U Treatment		100.00%	
U&U Storage		0.00%	

Ocala Oaks

Total Gallons Pumped/Purchased (1,000 gal)		172,612	From MFRs
Maximum Day Flow (gpd)		527,000	Matches MORs, Does not Match MFRs
Calculated Peak Hour Flow (gpd)		1,054,000	
Peak Factor		2	
Maximum Day Flow (gpm)		365.97	
Calculated Peak Hour Flow (gpm)		731.94	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	-2.9%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		365.97	
Calculated Peak Hour Flow (gpm)		731.94	
GROWTH ADJUSTMENT			
2007 Avg ERCs		1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended		1,892.1	From MFRs Ocala Oaks
Growth Factor		1.07	
Adjusted Flows			
Maximum Day Flow (gpm)		391.26	
Calculated Peak Hour Flow (gpm)		782.52	
Required Fire Flow (gpm)		0	From MFRs
Wells			
	440 gpm		Matches MFRs
	220 gpm		Matches MFRs
	330 gpm		Matches MFRs
Total	990		
Firm	770		

Treatment Used and Useful

Firm Capacity (gpm)	770
Peak Flow (gpm)	783
Used and Useful	100.00%
U&U Treatment	100.00%
U&U Storage	0.00%

Orange Hill - Sugar Creek

Total Gallons Pumped/Purchased (1,000 gal)		20,189	From MFRs
Maximum Day Flow (gpd)		93,667	Does not match MFRs F-3, Does match adjusted MORs
Calculated Peak Hour Flow (gpd)		187,334	
Peak Factor		2	
Maximum Day Flow (gpm)		65.05	
Calculated Peak Hour Flow (gpm)		130.09	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	5.0%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		65.05	
Calculated Peak Hour Flow (gpm)		130.09	
GROWTH ADJUSTMENT			
2007 Avg ERCs		231.5	From MFRs
2012 Avg ERCs trended		233.1	From MFRs
Growth Factor		1.01	
Adjusted Flows			
Maximum Day Flow (gpm)		65.50	
Calculated Peak Hour Flow (gpm)		130.99	
Required Fire Flow (gpm)		0	From MFRs
Wells			
	142 gpm		Matches MFRs
	107 gpm		Matches MFRs
Total	249		
Firm	107		

Treatment Used and Useful

Firm Capacity (gpm)	107
Peak Flow (gpm)	131
Used and Useful	100.00%
U&U Treatment	100.00%
U&U Storage	0.00%

Palms MHP

Total Gallons Pumped/Purchased (1,000 gal)		5,967	From MFRs
Maximum Day Flow (gpd)		45,600	Matches MFRs
Calculated Peak Hour Flow (gpd)		91,200	
Peak Factor		2	
Maximum Day Flow (gpm)		31.67	
Calculated Peak Hour Flow (gpm)		63.33	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	18.3%		From MFRs
Excess	8.3%		
UAW Adjustment (gpm)		0.9	
Adjusted Flows			
Maximum Day Flow (gpm)		30.72	
Calculated Peak Hour Flow (gpm)		61.45	
GROWTH ADJUSTMENT			
2007 Avg ERCs		57.5	From MFRs
2012 Avg ERCs trended		56.0	From MFRs
Growth Factor		1.00	Actuial less than one
Adjusted Flows			
Maximum Day Flow (gpm)		30.72	
Calculated Peak Hour Flow (gpm)		61.45	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	130 gpm		Matches MFRs
	gpm		
Total	130		
Firm	130		
Treatment Used and Useful			
Firm Capacity (gpm)	130		
Peak Flow (gpm)	61		
Used and Useful	47.27%		
U&U Treatment	100.00%	One well system.	
U&U Storage	0.00%		

Palm Port

Total Gallons Pumped/Purchased (1,000 gal)	5,128	From MFRs
Maximum Day Flow (gpd)	27,350	Matches MFRs
Calculated Peak Hour Flow (gpd)	54,700	
Peak Factor	2	

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	9.5%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0	

Adjusted Flows		
Maximum Day Flow (gpd)	27,350	
Calculated Peak Hour Flow (gpd)	54,700	

GROWTH ADJUSTMENT

2007 Avg ERCs	104.5	From MFRs
2012 Avg ERCs trended	101.8	From MFRs
Growth Factor	1.00	Actual less than 1

Adjusted Flows		
Maximum Day Flow (gpd)	27,350	
Calculated Peak Hour Flow (gpd)	54,700	

Required Fire Flow (gpm)	0	Matches MFRs

Wells

	80 gpm	Matches MFRs
	gpm	
	gpm	
	gpm	
Total	80	
Firm	80	

Adjusted Firm Capacity(16 hrs)(gpd)	76,800

Treatment Used and Useful

Firm Capacity (gpd)	76,800
Max Day (gpd)	27,350
Fire Flow (gpd)	0
Adjusted Max Day	27,350
Used and Useful	35.61%

U&U Treatment	100.00% One well
U&U Storage	100.00%

Storage

Volume	18,000 gals
Adjust	0.9
Usable Volume	16,200 gals
Max Day (gal)	27,350 gals
Factor	1
Max Day Allowance	27,350 gals
Fire Flow	0 gpm
Fire Flow Duration	2 hrs
Fire Volume	0 gals
Total	27,350 gals

Used and Useful	100.00%

Picciola Island

Total Gallons Pumped/Purchased (1,000 gal		13,806	From MFRs
Maximum Day Flow (gpd)		77,900	Matches MFRs
Calculated Peak Hour Flow (gpd)		155,800	
Peak Factor		2	
Maximum Day Flow (gpm)		54.10	
Calculated Peak Hour Flow (gpm)		108.19	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	11.5%		From MFRs
Excess	1.5%		
UAW Adjustment (gpm)		0.4	
Adjusted Flows			
Maximum Day Flow (gpm)		53.70	
Calculated Peak Hour Flow (gpm)		107.41	
GROWTH ADJUSTMENT			
2007 Avg ERCs		141.0	From MFRs
2012 Avg ERCs trended		145.7	From MFRs
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpm)		55.49	
Calculated Peak Hour Flow (gpm)		110.99	
Required Fire Flow (gpm)		0	From MFRs
Wells			
	175 gpm		Matches MFRs
	150 gpm		Matches MFRs
Total	325		
Firm	150		

Treatment Used and Useful

Firm Capacity (gpm)	150
Peak Flow (gpm)	111
Used and Useful	73.99%
U&U Treatment	73.99%
U&U Storage	0.00%

Piney Woods

Total Gallons Pumped/Purchased (1,000 gal)		19,526	From MFRs
Maximum Day Flow (gpd)		147,000	Matches MFRs
Calculated Peak Hour Flow (gpd)		294,000	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	11.8%		From MFRs
Excess	1.8%		
UAW Adjustment (gpd)		962.9	
Adjusted Flows			
Maximum Day Flow (gpd)		146,037	
Calculated Peak Hour Flow (gpd)		292,074	
GROWTH ADJUSTMENT			
2007 Avg ERCs		172.8	From MFRs
2012 Avg ERCs trended		177.4	From MFRs
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpd)		149,925	
Calculated Peak Hour Flow (gpd)		299,849	
Required Fire Flow (gpm)		0	Matches MFRs

Wells

300 gpm		Matches MFRs
140 gpm		Matches MFRs
gpm		
gpm		
Total 440		
Firm 300		
Adjusted Firm Capacity (16 hrs) (gpd)		288,000

Storage

Volume	50,000 gals
Adjust	0.9
Usable Volume	45,000 gals
Max Day (gal)	149,925 gals
Factor	1
Max Day Allowance	149,925 gals
Fire Flow	0 gpm
Fire Flow Duration	2 hrs
Fire Volume	0 gals
Total	149,925 gals

Treatment Used and Useful

Firm Capacity (gpd)	288,000	
Max Day (gpd)	149,925	Used and Useful 100.00%
Fire Flow (gpd)	0	
Adjusted Max Day	149,925	
Used and Useful	52.06%	
U&U Treatment	52.06%	
U&U Storage	100.00%	

Pomona Park

Total Gallons Pumped/Purchased (1,000 gal)		11,276	From MFRs
Maximum Day Flow (gpd)		*54,830*	*Matches MFRs*
Calculated Peak Hour Flow (gpd)		109,660	
Peak Factor		2	
Maximum Day Flow (gpm)		38.08	
Calculated Peak Hour Flow (gpm)		76.15	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	10.2%		From MFRs
Excess	0.2%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		38.03	
Calculated Peak Hour Flow (gpm)		76.07	
GROWTH ADJUSTMENT			
2007 Avg ERCs		171.0	From MFRs
2012 Avg ERCs trended		178.4	From MFRs
Growth Factor		1.00	Actual less than 1
Adjusted Flows			
Maximum Day Flow (gpm)		38.03	
Calculated Peak Hour Flow (gpm)		76.07	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	60 gpm		Matches MFRs
	35 gpm		Matches MFRs
Total	95		
Firm	35		

Treatment Used and Useful

Firm Capacity (gpm)	35
Peak Flow (gpm)	76
Used and Useful	100.00%
U&U Treatment	100.00%
U&U Storage	0.00%

Quail Ridge

Total Gallons Pumped/Purchased (1,000 gal)		7,000	From MFRs
Maximum Day Flow (gpd)		36,000	Matches MFRs
Calculated Peak Hour Flow (gpd)		72,000	
Peak Factor		2	
Maximum Day Flow (gpm)		25.00	
Calculated Peak Hour Flow (gpm)		50.00	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	9.6%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		25.00	
Calculated Peak Hour Flow (gpm)		50.00	
GROWTH ADJUSTMENT			
2007 Avg ERCs		92.5	From MFRs
2012 Avg ERCs trended		138.5	From MFRs
Growth Factor		1.25	Capped at 1.25
Adjusted Flows			
Maximum Day Flow (gpm)		31.25	
Calculated Peak Hour Flow (gpm)		62.50	
Required Fire Flow (gpm)		500	Matches MFRs (60,000 gpd)
Wells			
	650 gpm		Matches MFRs
	gpm		
Total	650		
Firm	650		

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	650	
Peak Flow (gpm)	63	
Used and Useful	9.62%	
Test 2		
Firm Capacity (gpm)	650	
Max Day (gpm)	31	
Fire Flow (gpm)	500	
Peak Flow (gpm)	531	
Used and Useful	81.73%	
U&U Treatment	100.00%	One well system.
U&U Storage	0.00%	

Ravenswood

Total Gallons Pumped/Purchased (1,000 gal)		3,933	From MFRs
Maximum Day Flow (gpd)		28,300	Matches MFRs
Calculated Peak Hour Flow (gpd)		56,600	
Peak Factor		2	
Maximum Day Flow (gpm)		19.65	
Calculated Peak Hour Flow (gpm)		39.31	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	-3.1%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		19.65	
Calculated Peak Hour Flow (gpm)		39.31	
GROWTH ADJUSTMENT			
2007 Avg ERCs		44.5	From MFRs
2012 Avg ERCs trended		48.9	From MFRs
Growth Factor		1.10	
Adjusted Flows			
Maximum Day Flow (gpm)		21.60	
Calculated Peak Hour Flow (gpm)		43.19	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	65 gpm		Matches MFRs
	gpm		
Total	65		
Firm	65		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)	65		
Peak Flow (gpm)	43		
Used and Useful	66.45%		
U&U Treatment	100.00%		One well
U&U Storage	0.00%		

Ridgeview

Total Gallons Pumped/Purchased (1,000 gal)		Not reported in MFRs
Maximum Day Flow (gpd)	51,000	Matches MORs, not inn MFRs
Calculated Peak Hour Flow (gpd)	102,000	
Peak Factor	2	
Maximum Day Flow (gpm)	35.42	
Calculated Peak Hour Flow (gpm)	70.83	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	0.0%	Not reported in MFRs
Excess	0.0%	
UAW Adjustment (gpm)	0.0	
Adjusted Flows		
Maximum Day Flow (gpm)	35.42	
Calculated Peak Hour Flow (gpm)	70.83	
GROWTH ADJUSTMENT		
2007 Avg ERCs	1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended	1,892.1	From MFRs Ocala Oaks
Growth Factor	1.07	
Adjusted Flows		
Maximum Day Flow (gpm)	37.86	
Calculated Peak Hour Flow (gpm)	75.73	
Required Fire Flow (gpm)	0	Not reported in MFRs
Wells		
90 gpm		Not reported in MFRs
90 gpm		Not reported in MFRs
Total 180		
Firm 90		

Treatment Used and Useful	
Test 1	
Firm Capacity (gpm)	90
Peak Flow (gpm)	76
Used and Useful	84.14%
U&U Treatment	84.14%
U&U Storage	0.00%

River Grove

Total Gallons Pumped/Purchased (1,000 gal)		6,602	From MFRs
Maximum Day Flow (gpd)		37,260	Matches MFRs
Calculated Peak Hour Flow (gpd)		74,520	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	7.8%		From MFRs
Excess	0.0%		
UAW Adjustment (gpd)		0	
Adjusted Flows			
Maximum Day Flow (gpd)		37,260	
Calculated Peak Hour Flow (gpd)		74,520	
GROWTH ADJUSTMENT			
2007 Avg ERCs		107.0	From MFRs
2012 Avg ERCs trended		107.8	From MFRs
Growth Factor		1.01	
Adjusted Flows			
Maximum Day Flow (gpd)		37,539	
Calculated Peak Hour Flow (gpd)		75,077	
Required Fire Flow (gpm)		0	Matches MFRs

Wells

	125 gpm		Matches MFRs
	gpm		
	gpm		
	gpm		
Total	125		
Firm	125		
Adjusted Firm Capacity(16 hrs)(gpd)		120,000	

Storage

Volume	15,000	gals
Adjust	0.9	
Usable Volume	13,500	gals
Max Day (gal)	37,539	gals
Factor	1	
Max Day Allowance	37,539	gals
Fire Flow	0	gpm
Fire Flow Duration	2	hrs
Fire Volume	0	gals
Total	37,539	gals

Treatment Used and Useful

Firm Capacity (gpd)	120,000	
Max Day (gpd)	37,539	
Fire Flow (gpd)	0	
Adjusted Max Day	37,539	
Used and Useful	31.28%	
U&U Treatment	100.00%	One well
U&U Storage	100.00%	

Used and Useful	100.00%

Rosalie Oaks

Total Gallons Pumped/Purchased (1,000 gal)		2,607	From MFRs
Maximum Day Flow (gpd)		*17,500*	*Matches MFRs*
Calculated Peak Hour Flow (gpd)		35,000	
Peak Factor		2	
Maximum Day Flow (gpm)		12.15	
Calculated Peak Hour Flow (gpm)		24.31	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	2.1%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		12.15	
Calculated Peak Hour Flow (gpm)		24.31	
GROWTH ADJUSTMENT			
2007 Avg ERCs		90.0	From MFRs
2012 Avg ERCs trended		92.6	From MFRs
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpm)		12.50	
Calculated Peak Hour Flow (gpm)		25.01	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	250 gpm		Matches MFRs
	gpm		
Total	250		
Firm	250		

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	250	
Peak Flow (gpm)	25	
Used and Useful	10.00%	
U&U Treatment	10.00%	One well system, but well is greater than 150 gpm and U&U is less than 75%.
U&U Storage	0.00%	

Sebring Lakes

Total Gallons Pumped/Purchased (1,000 gal)		59,330
Maximum Day Flow (gpd)		395,000
Calculated Peak Hour Flow (gpd)		790,000
Peak Factor		2

Does Not match MFRs which consider Sebrng Lakes and Lake Josephine Separately

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	6.3%	
Excess	0.0%	
UAW Adjustment (gpm)		0

	Gallons Pumped	Gallons Sold	Other	UAW
LJph	42746	38678	5656	-1588
SbgL	16584	3804	7474	5306
Total	59330	42482	13130	3718
UAW	6.27%			

Adjusted Flows		
Maximum Day Flow (gpd)		395,000
Calculated Peak Hour Flow (gpd)		790,000

GROWTH ADJUSTMENT

2007 Avg ERCs		670.6
2012 Avg ERCs trended		748.4
Growth Factor		1.12

From MFRs Lake Josephine and Sebring Lakes
From MFRs Lake Josephine and Sebring Lakes

Adjusted Flows		
Maximum Day Flow (gpd)		440,826.13
Calculated Peak Hour Flow (gpd)		881,652.25
Required Fire Flow (gpm)		0

Matches MFRs

Wells

	830 gpm	Matches MFRs
	830 gpm	Matches MFRs
	400 gpm	Matches MFRs
	400 gpm	Matches MFRs
Total	2460	
Firm	1630	

Adjusted Firm Capacity	1,564,800

Storage

Volume	63,000	gals
Adjust	0.9	
Usable Volume	56,700	gals
Max Day (gal)	440,826	gals
Factor	1	
Max Day Allowance	440,826	gals
Fire Flow	0	gpm
Fire Flow Duration	2	hrs
Fire Volume	0	gals
Total	440,826	gals

Treatment Used and Useful

Firm Capacity (gpd)	1,564,800
Max Day (gpd)	440,826
Fire Flow (gpd)	0
Adjusted Max Day	440,826
Used and Useful	28.17%
U&U Treatment	28.17%
U&U Storage	100.00%

Used and Useful 100.00%

Silver Lake Estates - Western Shores

Total Gallons Pumped/Purchased (1,000 gal)	348,491	From MFRs
Maximum Day Flow (gpd)	1,670,000	MORs show a low of 1,734,600
Calculated Peak Hour Flow (gpd)	3,340,000	MFRs only use Silver Lakes Estates Well
Peak Factor	2	

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	11.0%		From MFRs
Excess	1.0%		
UAW Adjustment (gpd)		9,547.7	

Adjusted Flows

Maximum Day Flow (gpd)	1,660,452	
Calculated Peak Hour Flow (gpd)	3,320,905	

GROWTH ADJUSTMENT

2007 Avg ERCs	1,599.9	From MFRs
2012 Avg ERCs trended	1,662.3	From MFRs
Growth Factor	1.04	

Adjusted Flows

Maximum Day Flow (gpd)	1,725,214	
Calculated Peak Hour Flow (gpd)	*3,450,428*	

Required Fire Flow (gpm)	0	Fire Hydrants not provided throughout service area.

Wells

	1425 gpm	Matches MFRs
	1425 gpm	Matches MFRs
	600 gpm	Matches MFRs
	gpm	
Total	3450	
Firm	2025	

Adjusted Firm Capacity(16hrs)(gpd)	1,944,000

Storage

Volume	50,000	gals
Adjust	0.9	
Usable Volume	45,000	gals
Max Day (gal)	1,725,214	gals
Factor	1	
Max Day Volume	1,725,214	gals
Fire Flow	0	gpm
Fire Flow Duration	2	hrs
Fire Volume	0	gals
Total	1,725,214	gals

Treatment Used and Useful

Firm Capacity (gpd)	1,944,000
Max Day (gpd)	1,725,214
Fire Flow (gpd)	0
Adjusted Max Day	1,725,214
Used and Useful	88.75%
U&U Treatment	88.75%
U&U Storage	100.00%

Used and Useful	100.00%

Silver Lake Oaks

Total Gallons Pumped/Purchased (1,000 gal)		1,860	From MFRs
Maximum Day Flow (gpd)		15,000	Matches MFRs
Calculated Peak Hour Flow (gpd)		30,000	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	5.8%		From MFRs
Excess	0.0%		
UAW Adjustment (gpd)		0	
Adjusted Flows			
Maximum Day Flow (gpd)		15,000	
Calculated Peak Hour Flow (gpd)		30,000	
GROWTH ADJUSTMENT			
2007 Avg ERCs		31.5	From MFRs
2012 Avg ERCs trended		26.5	From MFRs
Growth Factor		1.00	Actual less than one
Adjusted Flows			
Maximum Day Flow (gpd)		15,000	
Calculated Peak Hour Flow (gpd)		30,000	
Required Fire Flow (gpm)		0	Matches MFRs

Wells			
	75 gpm		Matches MFRs
	gpm		
	gpm		
	gpm		
Total	75		
Firm	75		
Adjusted Firm Capacity(16hrs)(gpd)		72,000	

Storage		
Volume	12,000	gals
Adjust	0.9	
Usable Volume	10,800	gals
Max Day (gal)	15,000	gals
Factor	1	
Max Day Allowance	15,000	gals
Fire Flow	0	gpm
Fire Flow Duration	2	hrs
Fire Volume	0	gals
Total	15,000	gals

Treatment Used and Useful			
Firm Capacity (gpd)	72,000		
Max Day (gpd)	15,000		
Fire Flow (gpd)	0		
Adjusted Max Day	15,000		
Used and Useful	20.83%		
U&U Treatment	100.00%	One well	
U&U Storage	100.00%		

Used and Useful	100.00%

EXHIBIT ATW-3

Skycrest

Total Gallons Pumped/Purchased (1,000 gal)		10,507	From MFRs
Maximum Day Flow (gpd)		78,700	Matches MFRs
Calculated Peak Hour Flow (gpd)		157,400	
Peak Factor		2	
Maximum Day Flow (gpm)		55	
Calculated Peak Hour Flow (gpm)		109	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	8.9%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		54.7	
Calculated Peak Hour Flow (gpm)		109.3	
GROWTH ADJUSTMENT			
2007 Avg ERCs		137.0	From MFRs
2012 Avg ERCs trended		147.8	From MFRs
Growth Factor		1.08	
Adjusted Flows			
Maximum Day Flow (gpm)		59	
Calculated Peak Hour Flow (gpm)		118	
Required Fire Flow (gpm)		0	Fire Hydrants not provided throughout service area.
Wells			
	500 gpm		Matches MFRs
	175 gpm		Matches MFRs
Total	675		
Firm	175		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		175	
Peak Flow (gpm)		118	
Used and Useful		67.38%	
Test 2			
Firm Capacity (gpm)		175	
Max Day (gpm)		59	
Fire Flow (gpm)		0	
Peak Flow (gpm)		59	
Used and Useful		34%	
U&U Treatment		67.38%	
U&U Storage		0.00%	

Stone Mountain

Total Gallons Pumped/Purchased (1,000 gal)		791	From MFRs
Maximum Day Flow (gpd)		12,400	Matches MFRs
Calculated Peak Hour Flow (gpd)		24,800	
Peak Factor		2	
Maximum Day Flow (gpm)		8.61	
Calculated Peak Hour Flow (gpm)		17.22	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	7.6%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		8.61	
Calculated Peak Hour Flow (gpm)		17.22	
GROWTH ADJUSTMENT			
2007 Avg ERCs		10.0	From MFRs
2012 Avg ERCs trended		11.6	From MFRs
Growth Factor		1.16	
Adjusted Flows			
Maximum Day Flow (gpm)		9.99	
Calculated Peak Hour Flow (gpm)		19.98	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	100 gpm		Matches MFRs
	gpm		
Total	100		
Firm	100		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)	100		
Peak Flow (gpm)	20		
Used and Useful	19.98%		
U&U Treatment	100.00%	One well	
U&U Storage	0.00%		

Summit Chase

Total Gallons Pumped/Purchased (1,000 gal)		21,734	From MFRs
Maximum Day Flow (gpd)		160,000	Matches MFRs
Calculated Peak Hour Flow (gpd)		320,000	
Peak Factor		2	
Maximum Day Flow (gpm)		111.11	
Calculated Peak Hour Flow (gpm)		222.22	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	57.7%		From MFRs
Excess	47.7%		
UAW *Adjustment (gpm)*		19.7	
Adjusted Flows			
Maximum Day Flow (gpm)		91.39	
Calculated Peak Hour Flow (gpm)		182.77	
GROWTH ADJUSTMENT			
2007 Avg ERCs		222.0	From MFRs
2012 Avg ERCs trended		107.1	From MFRs
Growth Factor		1.00	Actual less than 1
Adjusted Flows			
Maximum Day Flow (gpm)		91.39	
Calculated Peak Hour Flow (gpm)		182.77	
Required Fire Flow (gpm)		500	Matches MFRs (60,000 gpd)
Wells			
	600 gpm		Matches MFRs
	80 gpm		Matches MFRs
Total	680		
Firm	80		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		80	
Peak Flow (gpm)		183	
Used and Useful		100.00%	
Test 2			
Firm Capacity (gpm)		80	
Max Day (gpm)		91	
Fire Flow (gpm)		500	
Peak Flow (gpm)		591	
Used and Useful		100%	
U&U Treatment		100.00%	
U&U Storage		0.00%	

Sunny Hills Combined

Total Gallons Pumped/Purchased (1,000 gal)		78,342	From MFRs
Maximum Day Flow (gpd)		452,200	MORs have 472,000
Calculated Peak Hour Flow (gpd)		904,400	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	11.1%		From MFRs
Excess	1.1%		
UAW Adjustment (gpd)		2,361	
Adjusted Flows			
Maximum Day Flow (gpd)		449,839	
Calculated Peak Hour Flow (gpd)		899,678	
GROWTH ADJUSTMENT			
2007 Avg ERCs		565.9	From MFRs
2012 Avg ERCs trended		712.2	From MFRs
Growth Factor		1.25	Capped at 1.25
Adjusted Flows			
Maximum Day Flow (gpd)		562,299	
Calculated Peak Hour Flow (gpd)		1,124,598	
Required Fire Flow (gpm)		0	Fire Hydrants not provided throughout service area.

Wells

517 gpm	Matches MFRs	
510 gpm	Matches MFRs	
200 gpm	Matches MFRs	
gpm		
Total 1227		
Firm 710		

Adjusted Firm Capacity(16 hrs)(gpd)	681,600

Storage

Volume	70,000 gals
Adjust	0.9
Usable Volume	63,000 gals
Max Day (gal)	562,299 gals
Factor	1
Max Day Allowance	562,299 gals
Fire Flow	0 gpm
Fire Flow Duration	2 hrs
Fire Volume	0 gals
Total	562,299 gals

Treatment Used and Useful

Firm Capacity (gpd)	681,600
Max Day (gpd)	562,299
Fire Flow (gpd)	0
Adjusted Max Day	562,299
Used and Useful	82.50%
U&U Treatment	82.50%
U&U Storage	100.00%

Used and Useful 100.00%

Tangerine

Total Gallons Pumped/Purchased (1,000 gal)		44,253	From MFRs
Maximum Day Flow (gpd)		225,000	MORs show a Max Day of 312,000 gpd
Calculated Peak Flow (gpd)		450,000	Used MFR flow assuming 312,000 is an anomaly.
Peak Factor		2	
Maximum Day Flow (gpm)		156.25	
Calculated Peak Flow (gpm)		312.50	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	11.5%		From MFRs
Excess	1.5%		
UAW Adjustment (gpm)		1.3	
Adjusted Flows			
Maximum Day Flow (gpm)		154.99	
Calculated Peak Hour Flow (gpm)		309.97	
GROWTH ADJUSTMENT			
2007 Avg ERCs		264.5	From MFRs
2012 Avg ERCs trended		225.5	From MFRs
Growth Factor		1.00	Actual less than 1
Adjusted Flows			
Maximum Day Flow (gpm)		154.99	
Calculated Peak Flow (gpm)		309.97	
Required Fire Flow (gpm)		-	Fire Hydrants not provided throughout service area.
Wells			
	250 gpm		Matches MFRs
	250 gpm		*Matches MFRs*
Total	500		
Firm	250		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		250	
Peak Flow (gpm)		310	
Used and Useful		100.00%	
Test 2			
Firm Capacity (gpm)		250	
Max Day (gpm)		155	
Fire Flow (gpm)		-	
Peak Flow (gpm)		155	
Used and Useful		62%	
U&U Treatment		100.00%	
U&U Storage		0.00%	

Tomoka

Total Gallons Pumped/Purchased (1,000 gal)		28,886	From MFRs
Maximum Day Flow (gpd)		101,000	Matches MFRs for Tomoka/Twin Rivers
Calculated Peak Hour Flow (gpd)		202,000	
Peak Factor		2	
Unaacounted for Water Adjustment			
UAW	15.6%		From MFRs
Excess	5.6%		
Adjustment (gpd)		4,432	
Adjusted Flows			
Maximum Day Flow (gpd)		96,568	
Calculated Peak Hour Flow (gpd)		193,136	
GROWTH ADJUSTMENT			
2007 Avg ERCs		272.5	From MFRs
2012 Avg ERCs trended		275.2	From MFRs
Growth Factor		1.01	
Adjusted Flows			
Maximum Day Flow (gpd)		97,525	
Calculated Peak Hour Flow (gpd)		195,050	
Required Fire Flow (gpm)		0	Matches MFRs

Wells			**Storage**			
	343	gpm	Volume	15,000	gals	
	200	gpm	Adjust	0.9		
		gpm	Usable Volume	13,500	gals	Matches MFRs if combined with Twn Rv
		gpm	Max Day (gal)	97,525	gals	
Total	543		Factor	1		
Firm	200		Max Day Allowance	97,525	gals	
			Fire Flow	0	gpm	
			Fire Flow Duration	2	hrs	
Adjusted Firm Capacity(16 hrs)(gpd)		192,000	Fire Volume	0	gals	
Treatment Used and Useful			Total	97,525	gals	
Firm Capacity (gpd)		192,000				
Max Day (gpd)		97,525	Used and Useful	100.00%		
Fire Flow (gpd)		0				
Adjusted Max Day		97,525				
Used and Useful		50.79%				
U&U Treatment		50.79%				
U&U Storage		100.00%				

Twin Rivers

Total Gallons Pumped/Purchased (1,000 gal)			
Maximum Day Flow (gpd)		71,600	Matches MORs, not in MFRs
Calculated Peak Hour Flow (gpd)		143,200	
Peak Factor		2	
Unaacounted for Water Adjustment			
UAW	15.6%		From MFRs
Excess	5.6%		
Adjustment (gpd)		0	
Adjusted Flows			
Maximum Day Flow (gpd)		71,600	
Calculated Peak Hour Flow (gpd)		143,200	
GROWTH ADJUSTMENT			
2007 Avg ERCs		272.5	From MFRs
2012 Avg ERCs trended		275.2	From MFRs
Growth Factor		1.01	
Adjusted Flows			
Maximum Day Flow (gpd)		72,309	
Calculated Peak Hour Flow (gpd)		144,619	
Required Fire Flow (gpm)		0	Matches MFRs

Wells			**Storage**		
	268 gpm		Volume	15,000 gals	
	gpm		Adjust	0.9	
	gpm		Usable Volume	13,500 gals	Matches MFRs if combined with Tomoka
	gpm		Max Day (gal)	72,309 gals	
Total	268		Factor	1	
Firm	268		Max Day Allowance	72,309 gals	
			Fire Flow	0 gpm	
			Fire Flow Duration	2 hrs	
Adjusted Firm Capacity(16 hrs)(gpd)		257,280	Fire Volume	0 gals	
Treatment Used and Useful			Total	72,309 gals	

Firm Capacity (gpd)	257,280		
Max Day (gpd)	72,309	Used and Useful	100.00%
Fire Flow (gpd)	0		
Adjusted Max Day	72,309		
Used and Useful	28.11%		
U&U Treatment	28.11%	One well system but well is a large pump and U&U is less than 75%.	
U&U Storage	100.00%		

Valencia Terrace

Total Gallons Pumped/Purchased (1,000 gal)		27,741	From MFRs
Maximum Day Flow (gpd)		150,600	Matches MFRs
Calculated Peak Hour Flow (gpd)		301,200	
Peak Factor		2	
Maximum Day Flow (gpm)		104.58	
Calculated Peak Hour Flow (gpm)		209.17	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	6.0%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		104.58	
Calculated Peak Hour Flow (gpm)		209.17	
GROWTH ADJUSTMENT			
2007 Avg ERCs		417.8	From MFRs
2012 Avg ERCs trended		463.3	From MFRs
Growth Factor		1.11	
Adjusted Flows			
Maximum Day Flow (gpm)		116	
Calculated Peak Hour Flow (gpm)		232	
Required Fire Flow (gpm)		500	Matches MFRs (60,000 gpd)
Wells			
	750 gpm		Matches MFRs
	250 gpm		Matches MFRs
Total	1000		
Firm	250		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		250	
Peak Flow (gpm)		232	
Used and Useful		92.78%	
Test 2			
Firm Capacity (gpm)		250	
Max Day (gpm)		116	
Fire Flow (gpm)		500	
Peak Flow (gpm)		616	
Used and Useful		100%	
U&U Treatment		100.00%	
U&U Storage		0.00%	

Venetian Village

Total Gallons Pumped/Purchased (1,000 gal)		11,057	From MFRs
Maximum Day Flow (gpd)		46,620	MORs show a Max Day of 47,740 gpd
Calculated Peak Hour Flow (gpd)		93,240	Used MFR flow assuming 47,740 is an anomaly.
Peak Factor		2	
Maximum Day Flow (gpm)		32.38	
Calculated Peak Hour Flow (gpm)		64.75	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	5.0%		From MFRs
Excess	0.0%		
UAW Adjustment (gpm)		0.0	
Adjusted Flows			
Maximum Day Flow (gpm)		32.38	
Calculated Peak Hour Flow (gpm)		64.75	
GROWTH ADJUSTMENT			
2007 Avg ERCs		159.4	From MFRs
2012 Avg ERCs trended		182.2	From MFRs
Growth Factor		1.14	
Adjusted Flows			
Maximum Day Flow (gpm)		37.01	
Calculated Peak Hour Flow (gpm)		74.01	
Required Fire Flow (gpm)		0	From MFRs
Wells			
	240 gpm		Matches MFRs
	100 gpm		Matches MFRs
Total	340		
Firm	100		

Treatment Used and Useful		
Test I		
Firm Capacity (gpm)	100	
Peak Flow (gpm)	74	
Used and Useful	74.01%	
U&U Treatment	74.01%	
U&U Storage	0.00%	

Welaka - Saratoga Harbour

Total Gallons Pumped/Purchased (1,000 gal)		7,707	From MFRs
Maximum Day Flow (gpd)		57,210	MORs show a max day of 79,160
Calculated Peak Hour Flow (gpd)		114,420	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	14.3%		From MFRs
Excess	4.3%		
UAW Adjustment (gpd)		908	
Adjusted Flows			
Maximum Day Flow (gpd)		56,302	
Calculated Peak Hour Flow (gpd)		112,604	
GROWTH ADJUSTMENT			
2007 Avg ERCs		144.7	From MFRs
2012 Avg ERCs trended		144.4	From MFRs
Growth Factor		1.00	Actual less than 1
Adjusted Flows			
Maximum Day Flow (gpd)		56,302	
Calculated Peak Hour Flow (gpd)		112,604	
Required Fire Flow (gpm)		0	Matches MFRs

Wells			**Storage**		
			Volume	48,000 gals	
	186 gpm	Matches MFRs	Adjust	0.9	
	110 gpm	Matches MFRs	Usable Volume	43,200 gals	Verify
	110 gpm	Matches MFRs			
	gpm		Max Day (gal)	56,302 gals	
Total	406		Factor	1	
Firm	110	Only one Saratoga well with 2 pumps	Max Day Allowance	56,302 gals	
			Fire Flow	0 gpm	
			Fire Flow Duration	2 hrs	
Adjusted Firm Capacity(16 hrs)(gpd)		105,600	Fire Volume	0 gals	
Treatment Used and Useful			Total	56,302 gals	

Firm Capacity (gpd)	105,600		
Max Day (gpd)	56,302	Used and Useful	100.00%
Fire Flow (gpd)	0		
Adjusted Max Day	56,302		
Used and Useful	53.32%		
U&U Treatment	53.32%		
U&U Storage	100.00%		

Westview

Total Gallons Pumped/Purchased (1,000 gal)		Not reported in MFRs
Maximum Day Flow (gpd)	23,000	Matches MFRs, not in MORs
Calculated Peak Hour Flow (gpd)	46,000	
Peak Factor	2	
Maximum Day Flow (gpm)	15.97	
Calculated Peak Hour Flow (gpm)	31.94	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	0.0%	Not reported in MFRs
Excess	-10.0%	
UAW Adjustment (gpm)	0.0	
Adjusted Flows		
Maximum Day Flow (gpm)	15.97	
Calculated Peak Hour Flow (gpm)	31.94	
GROWTH ADJUSTMENT		
2007 Avg ERCs	1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended	1,892.1	From MFRs Ocala Oaks
Growth Factor	1.07	
Adjusted Flows		
Maximum Day Flow (gpm)	17.08	
Calculated Peak Hour Flow (gpm)	34.15	
Required Fire Flow (gpm)	0	Not reported in MFRs
Wells		
70 gpm		Not reported in MFRs
gpm		
Total 70		
Firm 70		

Treatment Used and Useful

Firm Capacity (gpm)	70	
Peak Flow (gpm)	34	
Used and Useful	48.79%	
U&U Treatment	100.00%	One well system
U&U Storage	0.00%	

Woodbury Forest

Total Gallons Pumped/Purchased (1,000 gal)		Not reported in MFRs
Maximum Day Flow (gpd)	30,000	Matches MFRs, not in MORs
Calculated Peak Hour Flow (gpd)	60,000	
Peak Factor	2	
Maximum Day Flow (gpm)	21	
Calculated Peak Hour Flow (gpm)	42	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	0.0%	Not reported in MFRs
Excess	-10.0%	
UAW Adjustment (gpm)	0.0	
Adjusted Flows		
Maximum Day Flow (gpm)	21	
Calculated Peak Hour Flow (gpm)	42	
GROWTH ADJUSTMENT		
2007 Avg ERCs	1,769.8	From MFRs Ocala Oaks
2012 Avg ERCs trended	1,892.1	From MFRs Ocala Oaks
Growth Factor	1.07	
Adjusted Flows		
Maximum Day Flow (gpm)	22	
Calculated Peak Hour Flow (gpm)	45	
Required Fire Flow (gpm)	0	Not reported in MFRs

Wells — Not reported in MFRs

	70 gpm
	gpm
Total	70
Firm	70

Treatment Used and Useful

Firm Capacity (gpm)	70	
Peak Flow (gpm)	45	
Used and Useful	63.64%	
U&U Treatment	100.00%	One well system
U&U Storage	0.00%	

Wootens

Total Gallons Pumped/Purchased (1,000 gal)		1,403	From MFRs
Maximum Day Flow (gpd)		10,660	Matches MFRs
Calculated Peak Flow (gpd)		21,320	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	35.3%		From MFRs
Excess	25.3%		
UAW Adjustment (gpd)		972	
Adjusted Flows			
Maximum Day Flow (gpd)		9,688	
Calculated Peak Hour Flow (gpd)		19,375	
GROWTH ADJUSTMENT			
2007 Avg ERCs		28.0	From MFRs
2012 Avg ERCs trended		31.3	From MFRs
Growth Factor		1.12	
Adjusted Flows			
Maximum Day Flow (gpd)		10,829	
Calculated Peak Hour Flow (gpd)		*21,659*	
Required Fire Flow (gpm)		0	Matches MFRs

Wells				**Storage**		
	20 gpm			Volume	1,000	gals
	gpm		Matches MFRs	Adjust	0.9	
	gpm			Usable Volume	900	gals
	gpm					
	gpm			Max Day (gal)	10,829	gals
Total	20			Factor	1	
Firm	20			Max Day Allowance	10,829	gals
				Fire Flow	0	gpm
				Fire Flow Duration	2	hrs
Adjusted Firm Capacity(16 hrs)(gpd)		19,200		Fire Volume	0	gals
Treatment Used and Useful				Total	10,829	gals
Firm Capacity (gpd)		19,200				
Max Day (gpd)		10,829		Used and Useful	100.00%	
Fire Flow (gpd)		0				
Adjusted Max Day		10,829				
Used and Useful		56.40%				
U&U Treatment		100.00%	One well system			
U&U Storage		100.00%				

The Woods

Total Gallons Pumped/Purchased (1,000 gal)		4,393	From MFRs
Maximum Day Flow (gpd)		48,000	MORs show a Max Day of 55,00 gpd
Calculated Peak Hour Flow (gpd)		96,000	Used MFR flow assuming 55,000 is an anomaly.
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	-5.9%		From MFRs
Excess	0.0%		
UAW Adjustment (gpd)		0	
Adjusted Flows			
Maximum Day Flow (gpd)		48,000	
Calculated Peak Hour Flow (gpd)		96,000	
GROWTH ADJUSTMENT			
2007 Avg ERCs		62.0	From MFRs
2012 Avg ERCs trended		63.3	From MFRs
Growth Factor		1.02	
Adjusted Flows			
Maximum Day Flow (gpd)		49,006	
Calculated Peak Hour Flow (gpd)		98,013	
Required Fire Flow (gpm)		0	From MFRs

Wells				**Storage**		
	100 gpm		Matches MFRs	Volume	2,500	gals
	gpm			Adjust	0.9	
	gpm			Usable Volume	2,250	gals
	gpm					
Total	100			Max Day (gal)	49,006	gals
Firm	100			Factor	1	
				Max Day Allowance	49,006	gals
				Fire Flow	0	gpm
				Fire Flow Duration	2	hrs
Adjusted Firm Capacity(16hrs)(gpd)		96,000		Fire Volume	0	gals
Treatment Used and Useful				Total	49,006	gals
Firm Capacity (gpd)	96,000					
Max Day (gpd)	49,006			Used and Useful	100.00%	
Fire Flow (gpd)	0					
Adjusted Max Day	49,006					
Used and Useful	51.05%					
U&U Treatment	100.00%		One well system			
U&U Storage	100.00%					

Zephyr Shores

Total Gallons Pumped/Purchased (1,000 gal)		12,216	From MFRs
Maximum Day Flow (gpd)		79,000	Matches MFRs
Calculated Peak Hour Flow (gpd)		158,000	
Peak Factor		2	
Maximum Day Flow (gpm)		55	
Calculated Peak Hour Flow (gpm)		110	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	27.5%		From MFRs
Excess	17.5%		
UAW Adjustment (gpm)		4.1	
Adjusted Flows			
Maximum Day Flow (gpm)		50.8	
Calculated Peak Hour Flow (gpm)		101.6	
GROWTH ADJUSTMENT			
2007 Avg ERCs		503.8	From MFRs
2012 Avg ERCs trended		494.4	From MFRs
Growth Factor		1.00	Actual less than one
Adjusted Flows			
Maximum Day Flow (gpm)		51	
Calculated Peak Hour Flow (gpm)		102	
Required Fire Flow (gpm)		0	Matches MFRs
Wells			
	530 gpm		Matches MFRs
	500 gpm		Verfied through field inspection
Total	1030		
Firm	500		

Treatment Used and Useful

Firm Capacity (gpm)	500
Peak Flow (gpm)	102
Used and Useful	20.32%
U&U Treatment	20.32%
U&U Storage	0.00%

EXHIBIT ATW-3

WASTEWATER USED AND USEFUL

Wastewater Treatment Used and Useful Summary

System	U&U	Non U&U	Notes
Arredondo Farms	76.67%	23.33%	
Beecher's Point	0.00%	100.00%	Interconnected
Chuluota	35.63%	64.38%	
FL Central Commerce Park	44.24%	55.76%	
Holiday Haven	70.79%	29.21%	
Interlachen/Park Manor	26.44%	73.56%	
Jasmine Lakes	100.00%	0.00%	
Jungle Den	41.81%	58.19%	
Kings Cove	55.48%	44.52%	
Lake Gibson Estates	0.00%	100.00%	Interconnected
Lake Suzy	100.00%	0.00%	
Leisure Lakes	38.42%	61.58%	
Morningveiw	25.00%	75.00%	
Palm Port	50.00%	50.00%	
PalmTerrace	100.00%	0.00%	
Rosalie Oaks	79.99%	20.01%	
Silver Lake Oaks	41.67%	58.33%	
South Seas	46.59%	53.41%	
Summit Chase	41.55%	58.45%	
Sunny Hills	57.50%	42.50%	
Valencia Terrace	56.25%	43.75%	
Venetian Village	29.54%	70.46%	
Village Water	45.33%	54.67%	
The Woods	61.34%	38.66%	
Zephyr Shores	0.00%	100.00%	Interconnected

	1	2	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20
	Length of 6" Collection Line (ft)	6" Line inch feet (in-ft)	Length of 8" Collection Line (ft)	6" Line inch feet (in-ft)	Total Inch miles (in-mi)	Allowable Infiltration (500gpd/in-mi) (1,000gal)	Total Water Sold (1,000 gal)	Avg Test Year Water ERCs	Avg Test Yr Wastewater ERCs	Water Sold Adjustment	Water Sold To Wastewater ERC (1,000 gal)	Allowable Inflow (10% water sold) (1,000 gal)	Allowable I&I (1,000 gal)	Returned Water Sold (80% sold) (1,000 gal)	Estimated WW and I&I (1,000 gal)	Actual WW Treated (gpd)	Actual WW Treated (1,000 gal)	Excess I&I (1,000 gal)	Percent Excess I&I
Arredondo Farms		-	26,310	210,480	39.86	7,275	32,360	637.33	382.92	0.60	19,442	1,944	9,219	15,554	24,773	46,000	16,790	(7,983)	0.00%
Beecher's Point	N/A Interconnected																		
Chuluota		-	32,791	262,328	49.68	9,067	153,222	1,496.92	606.92	0.41	62,123	6,212	15,280	49,699	64,978	114,000	41,610	(23,368)	0.00%
Fl. Central Commerce Park		-	7,364	58,912	11.16	2,036	N/A												
Holiday Haven		-	9,808	78,464	14.86	2,712	4,881	127.50	113.50	0.89	4,345	435	3,147	3,476	6,623	17,000	6,205	(418)	0.00%
Interlachen Estates/Park Manor		-	1,363	10,904	2.07	377	11,305	294.50	31.00	0.11	1,190	119	496	952	1,448	4,000	1,460	12	0.83%
Jasmine Lakes		-	63,269	506,152	95.86	17,495	92,263	1,617.75	1,603.58	0.99	91,455	9,145	26,640	73,164	99,804	205,000	74,825	(24,979)	0.00%
Jungle Den		-	4,704	37,632	7.13	1,301	1,669	115.00	137.00	1.19	1,989	199	1,500	1,591	3,091	15,000	5,475	2,384	43.55%
Kings Cove		-	11,905	95,240	18.04	3,292	31,887	209.00	201.00	0.96	30,666	3,067	6,359	24,533	30,892	30,100	10,987	(19,905)	0.00%
Lake Gibson Estates	N/A Interconnected																		
Lake Suzy		-	18,747	149,976	28.40	5,184	37,405	807.33	498.67	0.62	23,104	2,310	7,494	18,483	25,977	56,000	20,440	(5,537)	0.00%
Leisure Lakes		-	13,567	108,536	20.56	3,751	6,533	291.67	283.58	0.97	6,352	635	4,387	5,081	9,468	19,000	6,935	(2,533)	0.00%
Morningview		-	2,856	22,848	4.33	790	2,274	46.42	44.50	0.96	2,180	218	1,008	1,744	2,752	5,000	1,825	(927)	0.00%
Palm Port	2,558	15,348	5,191	41,528	10.77	1,966	4,597	110.58	107.92	0.98	4,486	449	2,414	3,589	6,003	15,000	5,475	(528)	0.00%
Palm Terrace		-	41,118	328,944	62.30	11,370	60,711	1,203.92	1,033.00	0.86	52,092	5,209	16,579	41,673	58,252	123,000	44,895	(13,357)	0.00%
Rosalie Oaks		-	4,162	33,296	6.31	1,151	2,335	97.00	98.00	1.01	2,359	236	1,387	1,888	3,274	10,000	3,650	376	10.29%
Silver Lake Oaks		-	1,722	13,776	2.61	476	1,710	46.00	45.00	0.98	1,673	167	643	1,338	1,981	5,000	1,825	(156)	0.00%
South Seas		-	9,180	73,440	13.91	2,538	N/A												
Summit Chase		-	6,039	48,312	9.15	1,670	7,195	221.00	218.00	0.99	7,097	710	2,380	5,678	8,057	29,000	10,585	2,528	23.88%
Sunny Hills		-	25,791	206,328	39.08	7,132	42,721.30	648	182.00	0.28	11,999	1,200	8,331	9,599	17,931	23,000	8,395	(9,536)	0.00%
Valencia Terrace		-	14,941	119,528	22.64	4,131	23,375	386.33	372.33	0.96	22,528	2,253	6,384	18,022	24,407	36,000	13,140	(11,267)	0.00%
Venetian Village		-	7,408	59,264	11.22	2,048	9,935	168.75	95.50	0.57	5,623	562	2,611	4,498	7,109	10,000	3,650	(3,459)	0.00%
Village Water		-	17,445	139,560	26.43	4,824	22,276	333.33	174.50	0.52	11,661	1,166	5,990	9,329	15,319	34,000	12,410	(2,909)	0.00%
The Woods	4,850	29,100		-	5.51	1,006	3,729	78.00	74.00	0.95	3,537	354	1,360	2,830	4,189	9,000	3,285	(904)	0.00%
Zephyr Shores	N/A Interconnected																		

Column Notes

1,2	*From MFRs map verified*
7,8,9	From MFRs
10	Ratio of water to Wastewater ERCs
14	column 14 plus column 6
17	from DMR analysis

Arredondo Farms

2007 Test Year Flows		
Annual Avg. (gpd)	46,000	Matches MFRs
Max. Month (gpd)	53,000	Matches MFRs
Max. Three Mo.Avg (gpd)	52,000	from DMR analysis
Infiltration/Inflow Adjustment		
Excess I&I	0.00%	
Adjustment Factor	100.00%	
Adjusted Flow	46,000	
Growth Adjustment		
2007 Avg ERCs	314.3	From MFRs
2012 Avg ERCs trended	311.7	From MFRs
Growth Factor	1.00	Actual less than one
Adjusted Flow	46,000	
Permit		
Flow Basis	Annual Average	
Flow (gpd)	60,000	Matches MFRs
Used and Useful	76.67%	

Chuluota

2007 Test Year Flows		
Annual Avg. (gpd)	114,000	MFRs use 113170
Max. Month (gpd)	124,000	Matches MFRs
Max. Three Mo.Avg (gpd)	123,000	from DMR analysis
Infiltration/Inflow Adjustment		
Excess I&I	0.00%	
Adjustment Factor	100.00%	
Adjusted Flow	114,000	
Growth Adjustment		
2007 Avg ERCs	596.3	From MFRs
2012 Avg ERCs trended	1,083.1	From MFRs
Growth Factor	1.25	Capped at 25%
Adjusted Flow	142,500	
Permit		
Flow Basis	Annual Average	
Flow (gpd)	400,000	Matches MFRs
Used and Useful	35.63%	

Florida Central Commerce Park

2007 Test Year Flows			
	Annual Avg. (gpd)	41,000	MFRs use 43,945
	Max. Month (gpd)	56,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	45,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	N/A	
	Adjustment Factor	100.00%	
	Adjusted Flow	41,000	
Growth Adjustment			
	2007 Avg ERCs	52.0	From MFRs
	2012 Avg ERCs trended	53.3	From MFRs
	Growth Factor	1.03	
	Adjusted Flow	42,025	
Permit			
	Flow Basis	Annual Average	
	Flow (gpd)	95,000	Matches MFRs
Used and Useful		44.24%	

Notes

Holiday Haven

2007 Test Year Flows		
Annual Avg. (gpd)	17,000	MFRs use 21,808
Max. Month (gpd)	25,000	Matches MFRs
Max. Three Mo.Avg (gpd)	22,000	from DMR Analysis
Infiltration/Inflow Adjustment		
Excess I&I	0.00%	
Adjustment Factor	100.00%	
Adjusted Flow	17,000	
Growth Adjustment		
2007 Avg ERCs	109.5	From MFRs
2012 Avg ERCs trended	114.0	From MFRs
Growth Factor	1.04	
Adjusted Flow	17,699	
Permit		
Flow Basis	Annual Average	
Flow (gpd)	25,000	Matches MFRs
Used and Useful	70.79%	

Notes

Interlachen Park Manor

2007 Test Year Flows			
Annual Avg. (gpd)		4,000	MFRs Use 3,486
Max. Month (gpd)		6,000	Matches MFRs
Max. Three Mo.Avg (gpd)		5,000	from DMR Analysis
Infiltration/Inflow Adjustment			
Excess I&I	0.83%		
Adjustment Factor	99.17%		
Adjusted Flow	3,967		
Growth Adjustment			
2007 Avg ERCs	28.2		From MFRs
2012 Avg ERCs trende	21.8		From MFRs
Growth Factor	1.00		Actual less than one
Adjusted Flow		3,967	
Permit			
Flow Basis		Annual Average	
Flow (gpd)		15,000	Matches MFRs
Used and Useful		26.44%	

Notes

Jasmine Lakes

2007 Test Year Flows			
	Annual Avg. (gpd)	205,000	MFRs use 215,000
	Max. Month (gpd)	222,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	217,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	205,000	
Growth Adjustment			
	2007 Avg ERCs	1,553.3	From MFRs
	2012 Avg ERCs trended	1,531.4	From MFRs
	Growth Factor	1.00	Actual less than one
	Adjusted Flow	205,000	

Permit	**Plant**	**Effluent Disposal**	
Flow Basis	Three Mo. Ann. Avg.	Ann. Avg	
Flow (gpd)	370,000	308,000	from permi MFRs use 380,000
	58.65%		
Used and Useful	*100.00%*	*Service area is built out with no expansion*	

Jungle Den

2007 Test Year Flows			
	Annual Avg. (gpd)	15,000	MFRs use 14,819
	Max. Month (gpd)	24,000	MFRs use 22,000
	Max. Three Mo.Avg (gpd)	20,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	43.55%	
	Adjustment Factor	56.45%	
	Adjusted Flow	8,467	
Growth Adjustment			
	2007 Avg ERCs	138.2	From MFRs
	2012 Avg ERCs trended	143.3	From MFRs
	Growth Factor	1.04	
	Adjusted Flow	8,780	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	21,000	Matches MFRs
Used and Useful		41.81%	

Kings Cove

2007 Test Year Flows			
	Annual Avg. (gpd)	30,100	Matches MFRs
	Max. Month (gpd)	33,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	32,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	30,100	
Growth Adjustment			
	2007 Avg ERCs	196.5	From MFRs
	2012 Avg ERCs trended	199.2	From MFRs
	Growth Factor	1.01	
	Adjusted Flow	30,514	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	55,000	Matches MFRs
Used and Useful		*55.48%*	

Notes

Lake Suzy

2007 Test Year Flows			
Annual Avg. (gpd)	56,000	MFRs use 78,900	
Max. Month (gpd)	84,000	Matches MFRs	
Max. Three Mo.Avg (gpd)	79,000	from DMR Analysis	
Infiltration/Inflow Adjustment			
Excess I&I	0.00%		
Adjustment Factor	100.00%		
Adjusted Flow	79,000		
Growth Adjustment			
2007 Avg ERCs	568.2	From MFRs	
2012 Avg ERCs trended	627.7	From MFRs	
Growth Factor	1.10		
Adjusted Flow	87,273		
Permit			
Flow Basis	Max Three Month Average		
Flow (gpd)	87,000		Matches MFRs
Used and Useful	100.00%		

Leisure Lakes

2007 Test Year Flows			
	Annual Avg. (gpd)	19,000	MFRs use 18,841
	Max. Month (gpd)	25,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	24,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	19,000	
Growth Adjustment			
	2007 Avg ERCs	270.5	From MFRs
	2012 Avg ERCs trended	273.5	From MFRs
	Growth Factor	1.01	
	Adjusted Flow	19,211	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	50,000	Matches MFRs
Used and Useful		38.42%	

Notes

Morningview

2007 Test Year Flows		
Annual Avg. (gpd)	5,000	MFRs use 5,485
Max. Month (gpd)	8,000	Matches MFRs
Max. Three Mo.Avg (gpd)	6,000	from DMR Analysis
Infiltration/Inflow Adjustment		
Excess I&I	0.00%	
Adjustment Factor	100.00%	
Adjusted Flow	5,000	
Growth Adjustment		
2007 Avg ERCs	34.0	From MFRs
2012 Avg ERCs trended	32.5	From MFRs
Growth Factor	1.00	Acutal less than 1
Adjusted Flow	5,000	
Permit		
Flow Basis	Annual Avg	
Flow (gpd)	20,000	Matches MFRs
Used and Useful	25.00%	

Notes

Palm Port

2007 Test Year Flows			
	Annual Avg. (gpd)	15,000	MFRs use 15,384
	Max. Month (gpd)	18,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	16,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	*15,000*	
Growth Adjustment			
	2007 Avg ERCs	104.0	From MFRs
	2012 Avg ERCs trended	102.5	From MFRs
	Growth Factor	1.00	Actual less than 1
	Adjusted Flow	15,000	
Permit			
	Flow Basis	Annual avg	
	Flow (gpd)	30,000	MFRs use 15,000
Used and Useful		50.00%	

Notes

Palm Terrace

2007 Test Year Flows			
	Annual Avg. (gpd)	123,000	MFRs use 138,636
	Max. Month (gpd)	145,000	MFRs use 114,000
	Max. Three Mo.Avg (gpd)	131,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	123,000	
Growth Adjustment			
	2007 Avg ERCs	967.4	From MFRs
	2012 Avg ERCs trended	910.5	From MFRs
	Growth Factor	1.00	Actual less than 1
	Adjusted Flow	123,000	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	130,000	Matches MFRs
		94.62%	
Used and Useful		100.00%	Service area is built out with no expansion

Notes

Rosalie Oaks

2007 Test Year Flows			
	Annual Avg. (gpd)	10,000	MFRs use 13,600
	Max. Month (gpd)	17,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	13,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	10.29%	
	Adjustment Factor	89.71%	
	Adjusted Flow	8,971	
Growth Adjustment			
	2007 Avg ERCs	90.0	From MFRs
	2012 Avg ERCs trended	92.6	From MFRs
	Growth Factor	1.03	
	Adjusted Flow	9,230	

Permit	**Plant**	**Effluent Disposal**
Flow Basis	Three Month Avg.	Annual Avg
Flow (gpd)	15,000	15,000
Used and Useful	79.99%	61.53%

Notes

Silver Lake Oaks

2007 Test Year Flows			
	Annual Avg. (gpd)	5,000	MFRs use 5,290
	Max. Month (gpd)	8,000	MFRs use 5,000
	Max. Three Mo.Avg (gpd)	7,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	5,000	
Growth Adjustment			
	2007 Avg ERCs	31.5	From MFRs
	2012 Avg ERCs trended	26.5	From MFRs
	Growth Factor	1.00	Actual less than one
	Adjusted Flow	5,000	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	12,000	MFRs use 15,000
Used and Useful		*41.67%*	

Notes

South Seas

2007 Test Year Flows			
	Annual Avg. (gpd)	123,000	MFRs use 122,603
	Max. Month (gpd)	154,000	MFRs use 32,000
	Max. Three Mo.Avg (gpd)	147,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Excess I&I	N/A	
	Adjustment Factor	100.00%	
	Adjusted Flow	123,000	
Growth Adjustment			
	2007 Avg ERCs	895	From MFRs
	2012 Avg ERCs trended	226	From MFRs
	Growth Factor	1.00	Actual less than 1
	Adjusted Flow	123,000	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	264,000	Matches MFRs
Used and Useful		46.59%	

Notes

Summit Chase

2007 Test Year Flows			
	Annual Avg. (gpd)	29,000	MFRs use 28,600
	Max. Month (gpd)	32,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	31,000	from DMR analysis
Infiltration/Inflow Adjustment			
	Excess I&I	23.88%	
	Adjustment Factor	76.12%	
	Adjusted Flow	22,075	
Growth Adjustment			
	2007 Avg ERCs	214.7	From MFRs
	2012 Avg ERCs trended	218.2	From MFRs
	Growth Factor	1.02	
	Adjusted Flow	22,434	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	54,000	Matches MFRs
Used and Useful		41.55%	

Notes

Sunny Hills

2007 Test Year Flows			
	Annual Avg. (gpd)	23,000	MFRs use 23.773
	Max. Month (gpd)	35,000	MFRs use 32,000
	Max. Three Mo.Avg (gpd)	32,000	from DMR analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	23,000	
Growth Adjustment			
	2007 Avg ERCs	565.9	From MFRs
	2012 Avg ERCs trended	712.2	From MFRs
	Growth Factor	1.25	Capped at 1.25
	Adjusted Flow	28,750	
Permit			
	Flow Basis	Annual Average	
	Flow (gpd)	50,000	Matches MFRs
Used and Useful		57.50%	

Notes

Valencia Terrace

2007 Test Year Flows			
	Annual Avg. (gpd)	36,000	MFRs use 36,792
	Max. Month (gpd)	47,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	42,000	from DMR analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	36,000	
Growth Adjustment			
	2007 Avg ERCs	453.6	From MFRs
	2012 Avg ERCs trended	572.5	From MFRs
	Growth Factor	1.25	Capped at 1.25
	Adjusted Flow	45,000	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	80,000	Matches MFRs
Used and Useful		*56.25%*	

Notes

Venetian Village

2007 Test Year Flows			
	Annual Avg. (gpd)	10,000	MFRs 10,444
	Max. Month (gpd)	14,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	13,000	from DMR analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	10,000	
Growth Adjustment			
	2007 Avg ERCs	94.5	From MFRs
	2012 Avg ERCs trended	100.5	From MFRs
	Growth Factor	1.06	
	Adjusted Flow	10,635	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	36,000	Matches MFRs
Used and Useful		29.54%	

Notes

Village Water

2007 Test Year Flows			
	Annual Avg. (gpd)	34,000	from DMR analysis
	Max. Month (gpd)	38,000	Matches MFRs
	Max. Three Mo.Avg (gpd)	36,000	from DMR analysis
Infiltration/Inflow Adjustment			
	Excess I&I	0.00%	
	Adjustment Factor	100.00%	
	Adjusted Flow	34,000	
Growth Adjustment			
	2007 Avg ERCs	236.7	From MFRs
	2012 Avg ERCs trended	203.1	From MFRs
	Growth Factor	1.00	Actual less than one
	Adjusted Flow	34,000	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	75,000	Matches MFRs
Used and Useful		45.33%	

Notes

Missing Mar 2005 data

The Woods

2007 Test Year Flows				
	Annual Avg. (gpd)	9,000	MFRs use 13,449	
	Max. Month (gpd)	12,000	Matches MFRs	
	Max. Three Mo.Avg (gpd)	10,000	from DMR analysis	
Infiltration/Inflow Adjustment				
	Excess I&I	0.00%		
	Adjustment Factor	100.00%		
	Adjusted Flow	9,000		
Growth Adjustment				
	2007 Avg ERCs	58.0	From MFRs	
	2012 Avg ERCs trended	59.3	From MFRs	
	Growth Factor	1.02		
	Adjusted Flow	9,202		
Permit		**Plant**	**Effluent Disposal**	
	Flow Basis	Three Month Avg	Annual Average	
	Flow (gpd)	15,000	15,000	Matches MFRs
Used and Useful		*61.34%*	*61.34%*	

EXHIBIT ATW-4

WATER DISTRIBUTION AND WASTEWATER COLLECTION USED AND USEFUL

WATER

System	Residential Lots Fronting Mains	Map Count Customers Residential	Other Lots Fronting Mains	Map Count Customers Other	2007 SFR ERCs	2007 Other ERCs	2007 Total ERCs	2012 Total ERCs	Growth Factor	Other ERC/lot	Total Other Available ERCs	Total Res. Available ERCs	Total Available ERCs	2007 ERCs Total	2012 ERCs Total	U&U	Notes
48 Estates	133	88	0	0	83	0	83	92.5	1.11	0.0	0	133	133.0	88	98.1	**73.74%**	
Arredondo Estates	269	245	3	2													
Arredondo Farms	437	384	2	2													
Arrendondo Combined	706	629	5	4	509	25.9	534.9	523.6	1.00	6.5	32.4	706	738.4	654.9	654.9	**88.69%**	
Beechers Point	74	16	1	1	44.5	2.7	47.2	-26.5	1.00	2.7	2.7	74	76.7	18.7	18.7	**24.38%**	No oth. cust. shown on map; current oth. cust. counted
Carlton Village	555	249	0	0	236.5	0	236.5	295.2	1.25	0	0.0	555	555.0	249	310.8	**56.00%**	
Chuluota	1326	1222	17	6	1355	64.7	1419.7	1902.2	1.25	10.8	183.3	1326	1509.3	1286.7	1608.4	**100.00%**	
East Lake Harris	195	195			173	0	173	174.3	1.01	0	0.0	195	195.0	195	196.5	**100.00%**	
Friendly Center	195	195	4	4	24.5	6.3	30.8	27	1.00	1.6	6.3	195	201.3	201.3	201.3	**100.00%**	
Fern Terrace	125	124	0	0	122.5	0.8	123.3	127.5	1.03	0.0	0.0	125	125.0	124.8	129.1	**100.00%**	
Gibsonia Estates	142	122	22	20	164	37.6	201.6	213.6	1.06	1.9	41.4	142	183.4	159.6	169.1	**92.22%**	
Grand Terrace	111	111	0	0	108	0	108	108.6	1.01	0	0.0	111	111.0	111	111.6	**100.00%**	
Haines Creek	124	115	0	0	107	0	107	112.2	1.05	0	0.0	124	124.0	115	120.6	**97.25%**	
Harmony Homes	59	59			60	0	60	61.7	1.03	0	0.0	59	59.0	59	60.7	**100.00%**	
Hermits Cove	210	183	1	1	169.5	11.8	181.3	177.1	1.00	11.8	11.8	210	221.8	194.8	194.8	**87.83%**	
Hobby Hills	107	102	0	0	95.5	0.7	96.2	100	1.04	0.0	0.0	107	107.0	102.7	106.8	**99.77%**	
Holiday Haven	159	122	4	2	118	4.8	122.8	119.8	1.00	2.4	9.6	159	168.6	126.8	126.8	**75.21%**	
Imperial Mobile Terr	255	253	0	0	242.5	0	242.5	244.6	1.01	0.0	0.0	255	255.0	253	255.2	**100.00%**	
Interlachen/Park Mano	362	286	0	0	259	3.3	262.3	249.5	1.00	0.0	0.0	362	362.0	289.3	289.3	**79.92%**	
Jasmine Lakes	1541	1541	33	33	1468	120.6	1588.6	1565.5	1.00	3.7	120.6	1541	1661.6	1661.6	1661.6	**100.00%**	
Jungle Den	128	124	3	3	110.5	5	115.5	119.6	1.04	1.7	5	128	133.0	129	133.6	**100.00%**	customers used instead of lots
Kings Cove	211	211	0	0	204.5	0	204.5	210	1.03	0.0	0.0	211	211.0	211	216.7	**100.00%**	
Kingswood	67	67	0	0	59.5	0	59.5	58.2	1.00	0.0	0.0	67	67.0	67	67.0	**100.00%**	
Lake Gibson Est	789	789	1	1	798	54.1	852.1	860.7	1.01	54.1	54.1	789	843.1	843.1	851.6	**100.00%**	
Lake Josephine	634	400	17	8	544	57.1	601.1	652.7	1.09	7.1	121.3	634	755.3	457.1	496.3	**65.71%**	
Lake Osbourne	465	455	2	2	457	3.2	460.2	455.1	1.00	1.6	3.2	465	468.2	458.2	458.2	**97.86%**	
Lake Suzy	633	597	81	68	483.5	308.2	791.7	858.6	1.08	4.5	367.1	633	1000.1	905.2	981.7	**98.16%**	
Leisure Lakes	400	314	0	0	274.5	0	274.5	283.2	1.03	0.0	0.0	400	400.0	314	324.0	**80.99%**	
Morningview	42	37	0	0	34	0	34	32.3	1.00	0.0	0.0	42	42.0	37	37.0	**88.10%**	
Oakwood	267	244	1	1	205	1.1	206.1	213.3	1.03	1.1	1.1	267	268.1	245.1	253.7	**94.61%**	No oth. cust. shown on map; current oth. cust. counted
49th Street Village (Oc	114	102															
Bellaire(Ocala Oaks)	222	216															
Bellview Hills (Ocala (	153	143															
Bellview Hills Estates(	368	318															
Chappel Hill(Ocala Oa	46	40															
Fairfax Hills(Ocala Oa	86	85															
Hawks Point(Ocala Oa	132	128															

System	Residential Lots Fronting Mains	Map Count Customers Residential	Other Lots Fronting Mains	Map Count Customers Other	2007 SFR ERCs	2007 Other ERCs	2007 Total ERCs	2012 Total ERCs	Growth Factor	Other ERC/lot	Total Other Available ERCs	Total Res. Available ERCs	Total Available ERCs	2007 ERCs Total	2012 ERCs Total	U&U	Notes
Marion Hills(Ocala Oa	29	29															
Ridge Meadow(Ocala (	55	39															
Westview(Ocala Oaks)	33	28															
Woodbury(Ocala Oaks	153	143															
Ocala Oaks(Ocala Oak	650	627	10	1													
Ocala Oaks Combined	2041	1898	10	1	1765.5	4.3	1769.8	1892.1	1.07	4.3	43.0	2041	2084.0	1902.3	2033.8	**97.59%**	
Orange Hill/Sugar Ck	265	248	0	0	231.5	0	231.5	233.1	1.01	0.0	0.0	265	265.0	248	249.7	**94.23%**	
Palms MHP	83	61	0	0	57.5	0	57.5	56	1.00	0.0	0.0	83	83.0	61	61.0	**73.49%**	
Palm Port	137	109	0	0	104.5	0	104.5	101.8	1.00	0.0	0.0	137	137.0	109	109.0	**79.56%**	
Palm Terrace	1215	1215	1	1	1113.5	21.1	1134.6	1033.8	1.00	21.1	21.1	1215	1236.1	1236.1	1236.1	**100.00%**	
Picciola Island	203	156	0	0	141	0	141	145.7	1.03	0.0	0.0	203	203.0	156	161.2	**79.41%**	
Piney Woods	206	175	1	1	171.5	1.3	172.8	177.4	1.03	1.3	1.3	206	207.3	176.3	181.0	**87.31%**	
Pomona Park	401	255	5	5	140.5	30.5	171	178.4	1.04	6.1	30.5	401	431.5	285.5	297.9	**69.03%**	
Quail Ridge	103	96	0	0	92.5	0	92.5	138.5	1.25	0.0	0.0	103	103.0	96	120.0	**100.00%**	
Ravenswood	55	48	0	0	44.5	0	44.5	48.9	1.10	0.0	0.0	55	55.0	48	52.7	**95.90%**	
River Grove	114	107	0	0	107	0	107	107.8	1.01	0.0	0.0	114	114.0	107	107.8	**94.56%**	
Rosalie Oaks	123	98	0	0	90	0	90	92.6	1.03	0.0	0.0	123	123.0	98	100.8	**81.98%**	
Sebring Lakes	639	92	0	0	69.5	0	69.5	95.7	1.25	0.0	0.0	639	639.0	92	115.0	**18.00%**	
Silver Lakes Estates	1743	1527	3	3	1591.5	8.4	1599.9	1662.3	1.04	2.8	8.4	1743	1751.4	1535.4	1595.3	**91.09%**	
Silver Lakes Oaks	55	37	0	0	31.5	0	31.5	26.5	1.00	0.0	0.0	55	55.0	37	37.0	**67.27%**	
Skycrest	127	124	10	2	116.5	20.5	137	147.8	1.08	10.3	102.5	127	229.5	144.5	155.9	**67.93%**	
Stone Mountain	22	10	0	0	10	0	10	11.6	1.16	0.0	0.0	22	22.0	10	11.6	**52.73%**	
St Johns Highlands	133	99	0	0	95.5	0	95.5	91.1	1.00	0.0	0.0	133	133.0	99	99.0	**74.44%**	
Summit Chase	214	214	1	1	212	10	222	107.1	1.00	10.0	10.0	214	224.0	224	224.0	**100.00%**	
Sunny Hills	5885	532	42	9	543	22.9	565.9	712.2	1.26	2.5	106.9	5885	5991.9	554.9	698.4	**11.66%**	
Tangerine	480	274	1	1	248	16.5	264.5	225.5	1.00	16.5	16.5	480	496.5	290.5	290.5	**58.51%**	
Tomoka	196	192	2	2													
Twin Rivers	81	77															
Tomoka/Twin R Comb	277	269	2	2	262	10.5	272.5	275.2	1.01	5.3	10.5	277	287.5	279.5	282.3	**98.18%**	
Valencia Terrace	329	329	6	3	325	92.8	417.8	463.3	1.11	30.9	185.6	329	514.6	421.8	467.7	**90.89%**	
Venetian Village	219	142	1	1	156.6	2.8	159.4	182.2	1.14	2.8	2.8	219	221.8	144.8	165.5	**74.62%**	
Village Water	155	132	87	39	125.5	111.2	236.7	203.1	1.00	2.9	248.1	155	403.1	243.2	243.2	**60.34%**	
Welaka	326	151	1	1	142.5	2.2	144.7	144.4	1.00	2.2	2.2	326	328.2	153.2	153.2	**46.68%**	No oth. cust. shown on map; current oth. cust. counted
Wootens	60	28	0	0	28	0	28	31.3	1.12	0.0	0.0	60	60.0	28	31.3	**52.17%**	
The Woods	124	75	0	0	62	0	62	63.3	1.02	0.0	0.0	124	124.0	75	76.6	**61.75%**	
Zephry Shores	515	515	13	3	458.5	45.3	503.8	494.4	1.00	15.1	196.3	515	711.3	560.3	560.3	**78.77%**	

WASTEWATER

System	Residential Lots Fronting Mains	Map Count Customers Residential	Other Lots Fronting Mains	Map Count Customers Other	2007 SFR ERCs	2007 Other ERCs	2007 Total ERCs	2012 Total ERCs	Growth Factor	Other ERC/lot	Total Other Available ERCs	Total Res. Available ERCs	Total Available ERCs	2007 ERCs Total	2012 ERCs Total	U&U	Notes
Arredondo Farms	338	337	1	1	300	14.3	314.3	311.7	1.00	14.3	14.3	338.0	352.3	351.3	351.30	99.72%	
Beecher's Point	54	17	1	1	15	8.3	23.3	57.1	1.25	8.3	8.3	54.0	62.3	25.3	31.63	50.76%	No other customers shown on map; current other cust. counted
Chuluota	561	525	1	1	581.5	14.8	596.3	1083.1	1.25	14.8	14.8	561.0	575.8	539.8	674.75	100.00%	No other customers shown on map; current other cust. counted
Fl. Central Commerce	0	0	50	41	0	52	52	53.3	1.03	1.3	63.4	0.0	63.4	52	53.30	84.05%	other only customers
Holiday Haven	164	110	1	1	118	4.8	122.8	119.8	1.00	4.8	4.8	164.0	168.8	114.8	114.80	68.01%	No other customers shown on map; current other cust. counted
Interlachen Estates/Par	31	29	1	1	24.5	3.7	28.2	21.8	1.00	3.7	3.7	31.0	34.7	32.7	32.70	94.24%	No other customers shown on map; current other cust. counted
Jasmine Lakes	1525	1525	1	1	1464	89.3	1553.3	1531.4	1.00	89.3	89.3	1525.0	1614.3	1614.3	1,614.30	100.00%	No other customers shown on map; current other cust. counted
Jungle Den	166	147	3	3	135.5	2.7	138.2	143.3	1.04	0.9	2.7	166.0	168.7	149.7	155.22	92.01%	used residential customers instead of lots
Kings Cove	204	204	0	0	196.5	0	196.5	199.2	1.01	0	0	204.0	204.0	204	206.80	100.00%	
Lake Gibson Estates	347	347	1	1	309.5	21	330.5	370.6	1.12	21	21	347.0	368.0	368	412.65	100.00%	No other customers shown on map; current other cust. counted
Lake Suzy	317	291	39	35	202	366.2	568.2	627.7	1.10	10.5	408.1	317.0	725.1	657.2	726.02	100.00%	
Leisure Lakes	395	285	0	0	270.5	0	270.5	273.5	1.01	0	0	395.0	395.0	285	288.16	72.95%	
Morningview	40	37	0	0	34	0	34	32.5	1.00	0	0	40.0	40.0	37	37.00	92.50%	
Palm Port	120	104	0	0	104	0	104	102.5	1.00	0	0	120.0	120.0	104	104.00	86.67%	
Palm Terrace	1047	1047	0	0	967	0.4	967.4	910.5	1.00	0	0	1047.0	1047.0	1047.4	1,047.40	100.00%	
Rosalie Oaks	32	30	0	0	90	0	90	92.6	1.03	0	0	32.0	32.0	30	30.87	96.46%	
Silver Lake Oaks	55	37	0	0	31.5	0	31.5	26.5	1.00	0	0	55.0	55.0	37	37.00	67.27%	
South Seas	51	35	32	32	31.5	863.9	895.4	226	1.00	27.0	863.9	51.0	914.9	898.9	898.90	98.25%	
Summit Chase	214	214	1	1	212	2.7	214.7	218.2	1.02	2.7	2.7	214.0	216.7	216.7	220.23	100.00%	
Sunny Hills	512	188	5	2	167	0.5	167.5	188.4	1.12	0.25	1.25	512.0	513.3	188.5	212.02	41.31%	
Valencia Terrace	329	329	6	3	316	137.6	453.6	572.5	1.25	45.9	275.2	329.0	604.2	466.6	583.25	96.53%	
Venetian Village	100	96	0	0	94.5	0	94.5	100.5	1.06	0	0	100.0	100.0	96	102.10	100.00%	
Village Water			89	38	0	32.5	32.5	31.2	1.00	0.9	76.1	0.0	76.1	32.5	32.50	42.70%	
The Woods	122	68	0	0	58	0	58	59.3	1.02	0	0	122.0	122.0	68	69.52	56.99%	
Zephyr Shores	515	515	11	4	459	35.2	494.2	478.3	1.00	8.8	96.8	515.0	611.8	550.2	550.20	89.93%	