ORIGINAL

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Application for water and wastewater rates in Alachua, Brevard, Highlands, Lake, Lee, Marion, Orange, Palm Beach, Pasco, Polk, Putnam, Seminole, Sumter, Volusia, and Washington Counties by Aqua Utilities Florida, Inc.
_____/

Docket No. 060368-WS

Date Filed: August 7, 2007

TESTIMONY
OF
ANDREW T. WOODCOCK, P.E., M.B.A.
ON BEHALF OF
THE OFFICE OF PUBLIC COUNSEL

Respectfully Submitted,

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PREFILED TESTIMONY
AND EXHIBITS OF
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August 7, 2007

PREFILED TESTIMONY OF
ANDREW T. WOODCOCK P.E., M.B.A.

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 Tetra Tech 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 Tetra Tech. 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. Exhibit ATW-1 provides additional details of my work experience.

Q. WHAT ARE YOUR PROFESSIONAL AFFILIATIONS?

A. I am a member of the 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.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. The purpose of my testimony is to offer used and useful testimony on the 93 systems included in this rate case. The actual number of systems is 93 and not the 80 stated in the original filing. Of the additional 13 systems, 12 systems are located in Marion County that were filed as a single system under Ocala Oaks, 2 water systems were filed as a single water system under Arredondo, and 2 systems were filed under Tomoka. I will also provide testimony to the 2006 and 2007 plant additions made or projected to be made by Aqua Utilities Florida, Inc. (AUF) before the end of the 2007 projected test year. I will testify whether the plant in service amounts match the actual physical plant items at each system, and whether the additions were prudently made at a reasonable cost. Documentation to support prudence and reasonableness of the 2006 and 2007 plant additions were either provided too late to be included in my August 7, 2007 pre-filed testimony or was not provided at all. For this reason, I am unable to verify at this time the prudence and reasonableness of AUF's 2006 and 2007 plant additions. It is my intent to file Supplemental Pre-Filed Testimony on this issue at a later time.

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 Gerald Conolly. I also reviewed the Annual Reports filed by AUF with FPSC for 2004 and 2005. I also contacted the Offices of the Florida Department of Environmental Protection (FDEP) in Orlando. I have reviewed and studied many of AUF's responses to the interrogatories and requests for production of documents.

I made an inspection trip to each of the systems in the rate case and personally inspected the major above ground treatment assets of each system. 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. DESCRIBE YOUR METHODOLOGY FOR CALCULATING THE USED AND USEFUL PERCENTAGES FOR WATER TREATMENT SYSTEMS.

A. My methodology for calculating the used and useful percentages for water systems is detailed in Exhibit ATW-2. The methodology is based on evaluating the major treatment components of wells and treatment, storage and high service pumps. Each component should be evaluated individually to ensure that no one specific component is oversized.

Exhibit ATW-3 provides a summary sheet of my water treatment used and useful calculations as well as detailed sub sheets for each system. For systems that receive water

from an outside source such as an adjacent utility the water treatment used and useful is considered 0.00% because no supply and treatment assets are necessary.

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 excess I used a threshold of 10% of the pumped water which has been the standard used by the PSC. Any unaccounted for water over this amount was deducted from the used and useful calculation. It should be noted that extensive statewide meter reading and billing problems raise serious questions about the accuracy and reliability of AUF's flow data provided in its MFRs. If it is even possible to resolve these errors in this case as filed, further analysis of the unaccounted for water issue will be required.

Q. WHAT OTHER PORTIONS OF YOUR ANALYSIS RELY UPON BILLED FLOW DATA?

A. I used billed flow data to determine unaccounted for water as mentioned above and as part of my test for wastewater system Infiltration and Inflow (I/I). The erroneous billed water data was also used to help quantify the growth factors utilized in my used and useful analysis.

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 2005 historic test year and selected the single highest demand recorded for the year. I also conducted an analysis of the 5 highest flow days in the maximum month of the historic test year. In the event the single highest maximum day is the result of an unusual occurrence such as a fire or major line break, the average of the 5 highest days in the maximum month can provide a reasonable proxy for the maximum day.

Q. DID YOU FIND AN OCCAISION IN THIS ANALYSIS TO USE THE AVERAGE OF THE FIVE HIGHEST FLOW DAYS IN THE MAXIMUM MONTH IN LIEU OF THE MAXIMUM DAY?

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 used the average of the highest five days of the maximum month of the historic test year. The systems in question are:

48 Estates

Carlton Village

Gibsonia Estates

Interlachen-Park Manor

Jasmine Lakes

Lake Gibson Estates

Lake Josephine

Leisure Lakes

Ocala Oaks

Orange Hill-Sugar Creek

Palms MHP

Piney Woods

Sebring Lakes

Tangerine

Welaka-Saratoga Harbour

Wootens

Zephyr Shores

Q. HOW DID YOU DETERMINE THE PEAK HOUR FLOW FOR THE USED AND USEFUL CALCULATIONS?

A. It is unusual for water systems the size of the ones in this rate case to record peak hour flow data, therefore it must be estimated. As stated in Exhibit ATW-2 peak hour flow is typically expressed as a ratio of the maximum day demand and is usually in the range of 1.5 to 2.0 times the maximum day flow. Larger systems with a more diverse customer base typically have lower peak to max ratios than smaller residential only systems. For the systems in this rate case which are smaller and primarily residential I used a factor of 2.0 times the test year maximum day demand to determine the peak hour flow.

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. In other cases there was no data in the MFRs and the pump capacity could not be determined through testing. For these instances I calculated a capacity based on the pump horsepower. These calculations assume the pump is operating at 70 psi with a typical motor efficiency of 90% and a typical pump efficiency of 70%.

In the course of my analysis I found it necessary to revise the capacities of the following system components:

System	Component	Notes
Arredondo (Combined)	Wells	Used well capacities of 120, 120, 250, and 300 gpm based on Sanitary Surveys and field data
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
Ravenswood	Wells	Used 90 gpm well from field inspection
Ridgeview (Ocala Oaks)	Wells	Added two 90 gpm wells based on Sanitary Surveys
Sebring Lakes-Lake Josephine	HSP	Calculated two high service pump capacities of 310 gpm
Summit Chase	Wells	Used well capacities of 525, and 100 based on on-site O&M data
Sunny Hills	Wells	Added well from WTP No 5 from Sanitary Surveys
Tomoka-Twin Rivers	Wells, HSP	Added 268 gpm well from Sanitary Survey; calculated five high service pump capacities of 78 gpm each
Welaka-Saratoga Harbour	Wells	Added two 110 gpm wells from field inspection and 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
Wootens	HSP	Calculated two 78 gpm HSPs
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 projected test year is 2007 and the historic test year is 2005. In my growth calculations I have included growth through 2012 which is five years past the projected test year. The difference between the historic and projected test years has required that the used and useful growth factor be calculated differently depending upon the date of the data used. For example all water and wastewater plant used and useful calculations are based upon the data of the historic test year of 2005, therefore the growth period through 2012 is actually seven years. However, the used and useful piping calculations are based upon system maps that are considered to be current (mid year 2007) which generates a growth period of 5.5 years.

For the estimate of annual growth for each system I relied upon the data submitted by the Utility in Schedules F-8 and F-9. In instances where a negative growth rate was calculated I used 0%. In instances where the growth rate was in excess of 5% I used a growth rate of 5% as required by Chapter 367.081 (2)(a)2.b., F.S.

Q. WERE 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 capacity using the combined wells of the systems. However, In the case of East Lake Harris - Friendly Estates and 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. WERE THERE ANY ANOMALIES IN THE WATER SYSTEM DATA SUBMITTED BY THE UTILITY?

A. Yes, there were four situations apart from the numerous capacity changes previously mentioned. First, there was the case of Imperial Mobile Terrace. The MFRs state that there was more water sold than pumped in the system due to an unknown interconnect with the City of Tavares that was open. As a result is was difficult to get reasonable data on this systems usage. In order to compensate for this I utilized the water sold figures in the numerator of the used and useful calculation. This is a more than fair assumption as it ignores any impact of an excess unaccounted for water adjustment which could be a factor in the calculations.

Then there 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 and discovery items have been sent to the Utility on this issue. 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	97.35%
Belleaire	100.00%
Belleview Hills	100.00%
Belleview Hills Estates	94.75%
Chappell Hill	63.38%
Fairfax Hills	100.00%
Hawks Point	55.85%
Marion Hills	38.47%
Ocala Oaks	100.00%
Ridgeview	45.38%
Westview	27.04%
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 93.09%.

The third and fourth unusual instances are similar to Ocala Oaks and include the combining of Arredondo Farms and Arredondo Estates and the combining of Tomoka

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	97.35%
Belleaire	100.00%
Belleview Hills	100.00%
Belleview Hills Estates	94.75%
Chappell Hill	63.38%
Fairfax Hills	100.00%
Hawks Point	55.85%
Marion Hills	38.47%
Ocala Oaks	100.00%
Ridgeview	45.38%
Westview	27.04%
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 93.09%.

The third and fourth 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	100.00%
Arredondo Farms	59.44%

Combining the used and useful calculations using connected customers as a weighting factor generates a percentage of 74.52%, 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 29.34%; Storage 100.00%; High Service Pumps 75.23%
Twin Rivers	Treatment 28.66%; Storage 100%; High Service Pumps 100%

The weighted average calculation also generates component percentages of 29.15% for treatment; 100.00% for storage; and 82.22% for high service pumping which is used at this time.

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

A. Fire flow when required and able to be provided throughout the water system 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 Requirement
Chuluota	750 gpm
Hobby Hills	500 gpm
Imperial Mobile Terrace	500 gpm
Kings Cove	500 gpm
Quail Ridge	500 gpm
Silver Lakes Estates-Western Shores	500 gpm
Skycrest	500 gpm
Summit Chase	500 gpm
Sunny Hills	700 gpm
Tangerine	500 gpm
Valencia Terrace	500 gpm

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 entire 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 is not considered in the following systems:

Chuluota: Hydrants are not throughout the entire 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 throughout the entire service area.

Skycrest: Maps show no fire hydrants or sufficiently sized lines.

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

Tangerine: Hydrants are not throughout the entire service area.

Where fire flow is considered I used a typical fire flow duration of 2 hours. Additional discovery may provide refinements to the fire flow duration.

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

A. The specifics of the methodology are provided in Exhibit ATW-2. My analysis consisted of a review of the test year Discharge Monitoring Reports (DMRs) that are required to be filed monthly with FDEP. 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 which generated two used and useful numbers. With one exception the difference was not considered to be great and the larger of the two used and useful values was utilized. The exception is the Chuluota system whose wastewater treatment plant was recently expanded to 400,000 gpd but has yet to successfully permit effluent disposal beyond 100,000 gpd. It was

determined in this case to use the 400,000 gpd capacity. Exhibit ATW-4 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. In first determining 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 an I/I issue and require additional analysis. Some systems have a different number of water and wastewater customers so in these cases I used the ratio of water to wastewater ERCs to factor the billed water from the appropriate amount of customers. As stated previously, extensive statewide meter reading and billing problems raise serious questions about the accuracy and reliability of AUF's flow data provided in its MFRs. If it is even possible to resolve these errors in this case as filed, further analysis of the I/I issue will be required. With the flow data currently filed I found I/I issues in the following systems:

Holiday Haven

Interlachen-Park Manor

Jasmine Lakes

Jungle Den

Leisure Lakes

Morningview

Palm Port

Rosalie Oaks

Silver Lake Oaks

Summit Chase

Venetian Village

Village Water

The Woods

Having identified these systems as having potential I/I issues I then looked to what would be an allowable amount of I/I for a system. Typically this is done by an analysis of the length and diameter of collection pipe in the system, however, this information was late filed by AUF in response to discovery requests and has yet to be reviewed by me. Review of additional detailed data concerning the collection lines could result in Supplemental Testimony to revise my findings on this issue. My analysis at this time assumes that wastewater flow in excess of 10% of the billed water returned to the wastewater plant is considered excessive I/I. Based on this criterion the following systems were found to have excessive I/I and require adjustment to the used and useful calculations:

Holiday Haven

Interlachen-Park Manor

Jungle Den

Leisure Lakes

Palm Port

Rosalie Oaks

Silver Lake Oaks

Summit Chase

Venetian Village

Village Water

The Woods

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

A. The methodology for determining the used and useful percentage for water distribution and wastewater collection systems is provided in Exhibit ATW-2. The used and useful percentages were determined from the system maps submitted by the Utility and involved a system by system counting of the number of connections and number of potential connections. A summary of the used and useful percentage for each system along with detailed sub sheets are shown in Exhibit ATW-5.

Q. DID YOU FIND ANY SYSTEMS THAT HAD COMPLETELY BUILT OUT SERVICE AREAS AND STILL HAD AVAILABLE TREATMENT CAPACITY?

A. Yes, in those cases the used and usefulness of the water distribution and wastewater collection systems were considered 100%. However, the water and wastewater treatment facilities may not be considered 100%. Non used and useful plant could be used to support service area expansions, internal service area redevelopment or bulk supply to external users.

Q. DOES THAT CONCLUDE YOUR TESTIMONY AT THIS TIME?

A. Yes it does.

EXHIBIT ATW-1

RESUME

TETRA TECH

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

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.

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 Winter Haven Water Master Plan, the Town of Palm Beach Water Capital Improvements Program, 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, Brooksville, and Bartow, Pasco County and the Tohopekaliga Water Authority.

Title:
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

Office:
Orlando, Florida

Years of Experience:
1990 – Present

Years with Tetra Tech:
1991 – Present

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)
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

City of Orange City, Florida
Impact Fee Review (2004)
Revenue Sufficiency Study (2006)

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)

Florida State Attorney General (Office of Public Counsel)
Utility Regulatory Services – Aqua America Utilities (2007)

PAPERS AND PRESENTATIONS

"Water and Wastewater Impact Fees: An Overview" Florida Rural Water Association, Utility Management Training, April 4, 2005.

EXHIBIT ATW-2

USED AND USEFUL METHODOLOGY

EXHIBIT ATW-2

USED AND USEFUL METHODOLOGY

1. Water Treatment Systems

Since water treatment systems are comprised of several major components, the used and usefulness of water systems should be considered on a component basis. Principally, the components of water treatment systems consist of the source of supply and treatment, system storage and high service pumping. In most cases in Florida the source of supply for a water system are its wells. Most downstream treatment processes be it RO, softening, filtration, etc. are sized to meet the well capacity. Also in many cases the well pumps may also serve as high service pumps, pressurizing the transmission and distribution system. Storage is present in some systems to provide equalization and other volume during peak demand events. In these cases the storage tanks are drained by high service pumps that convey the water to customers and pressurize the system.

The importance of evaluating each major component of a water treatment plant for used and useful purposes is to ensure that no specific component is oversized and therefore not providing service to the utility's customers.

Unaccounted for water is defined as the difference between the amount of water that is measured leaving the water treatment plant and the amount of water billed to customers plus non-billed water that is accounted for. It is generally accepted practice that the amount of water leaving a plant that is greater than 10% of the amount sold or otherwise accounted for is considered to be excessive unaccounted for water and should be considered in water used and useful calculations.

The U&U rationale for each major water treatment component is as follows:

A. Wells and Treatment

Water Treatment includes all facilities such as wells and treatment excluding storage and high service pumps as discussed below. The used and usefulness of the water treatment component is determined by dividing the peak demand by the firm capacity of the water treatment component. The firm capacity of the water treatment system is equal to the pumping capacity of the wells with the largest well out of service for those systems with more than one well.

The peak demand for water treatment without storage is the peak hour demand of the system which is defined as the single maximum day demand of the test year times a

peaking factor ranging between 1.5 to 2.0, excluding excessive unaccounted for water, plus a factor for growth allowance. In instances where the single maximum day demand is the result of an anomalous event such as a fire or line break the peak hour demand is defined as the average of the 5 highest days of the maximum month of the test year times a peaking factor ranging between 1.5 to 2.0, excluding excessive unaccounted for water, plus a growth allowance.

The peak demand for water treatment with storage is the single maximum day of the test year excluding excessive unaccounted for water, plus a factor for growth allowance and if provided any fire flow requirement by local governmental authority that exceeds storage capacity. In instances where the single maximum day demand is the result of an anomalous event such as a fire or line break the peak demand is defined as the average of the 5 highest days of the maximum month of the test year excluding excessive unaccounted for water, plus a growth allowance, and if provided any fire flow requirement by local governmental authority that exceeds storage capacity.

B. Storage

Storage in terms of U&U includes non-pressurized tanks whose primary function is to provide water during daily fluctuations of system demands. High service pumps downstream of the tanks convey the stored water to the transmission and distribution system. Where the centerline of the high service pumps are located above the tank bottom 90% of the total tank volume is considered useable. The used and usefulness of the storage tank is considered the peak demand divided by the adjusted tank volume.

Peak demand for storage tanks consists 25% of the utility's maximum day demand, excluding excessive unaccounted for water, plus a growth allowance, plus fire flow if provided based on local governmental authority requirement.

In instances where the single maximum day demand is the result of an anomalous event such as a fire or line break the peak demand for storage tanks consists of 25% of the utility's average of the 5 highest days of the maximum month of the test year, excluding excessive unaccounted for water, plus a growth allowance, plus fire flow if provided based on local governmental authority requirement.

C. High Service Pumps

High service pumps are the pumps that pressurize the water distribution system and provide water service to the system customers. High service pumps can either be well pumps or in the case of water treatment facilities with storage they can be a separate set of pumps. The used and usefulness of high service pumps is determined by dividing the

peak demand for the high service pumps by the firm capacity of the high service pumps. Firm capacity of high service pumping is equivalent to the total pumping capacity of the high service pumps, excluding the largest high service pump for those systems with more than one high service pump.

The peak demand for high service pumping is the greater of:

a. The peak hour demand of the system, where peak hour is defined as the single maximum day demand of the test year times a peaking factor ranging between 1.5 to 2.0, excluding excessive unaccounted for water, plus a growth allowance, or,
b. The maximum day demand excluding excessive unaccounted for water, plus a growth allowance, plus fire flow if provided and based on local governmental authority requirement.

In both of the above cases where the single maximum day demand is the result of an anomalous event such as a fire or line break the average of the 5 highest days of the maximum month of the test year may be used for the maximum day demand.

2. Wastewater Treatment Systems

The used and useful calculations for wastewater treatment systems are specifically addressed in Chapter 25-30.432, F.A.C., which states that the used and usefulness shall be based on the same period or basis as the period or basis stated in the current operating permit issued by the FDEP. For example if the operating permit is based on annual average daily flow then the numerator for the used and useful calculations shall be based on the annual average daily flow of the test year. The denominator for the used and useful calculation shall be the permitted annual average daily flow of the wastewater treatment plant.

The numerator for the used and useful analysis consists of the test year required flow basis as stated in the operating permit less excess infiltration and inflow, plus the five year growth factor. The formula for used and useful for wastewater treatment systems is:

U&U=((Test year flow - excess I/I) + 5 year growth factor)/FDEP Permitted capacity

3. Water Distribution and Wastewater Collection Systems

Used and usefulness for the water distribution and wastewater collection system follows the Public Service Commission's policy of comparing the total existing connections to the total possible connections in the system. Total existing connections are determined from the data in the required system maps submitted by the utility. Similarly total possible connections are

determined by counting the total number of lots or parcels that have frontage along water distribution or wastewater collection lines. In some cases it is necessary to adjust this methodology to account for the length of customer services. The formula for water distribution and wastewater collection systems is:

U&U= (Total existing connections + 5 year growth factor)/Total available connections.

EXHIBIT ATW-3

WATER USED AND USEFUL

System	Treatment		Storage		High Service		Notes
	Firm Capacity	U & U	Firm Capacity	U & U	Firm Capacity	U & U	
48 Estates	80	100.00%	NA	NA	NA	NA	
49th Street Villas	75	97.35%	NA	NA	NA	NA	Marion System
Avedondo Combined	NA	74.52%	NA	NA	NA	NA	
Beecher's Point	NA	0.00%	NA	NA	NA	NA	Interconnected
Belleaire	92	100.00%	NA	NA	NA	NA	Marion System
Bellview Hills Estates	200	94.75%	NA	NA	NA	NA	Marion System
Bellview Hills	70	100.00%	NA	NA	NA	NA	Marion System
Carlton Village	200	65.24%	NA	NA	NA	NA	
Chappell Hill	70	63.38%	NA	NA	NA	NA	Marion System
Chuluota	1250	48.88%	405,000	54.31%	1950	62.66%	System does not have sufficient hydrants to provide fire
East Lake Harris	100	59.94%	NA	NA	NA	NA	Interconnected with Friendly Center
Fairfax Hills	70	100.00%	NA	NA	NA	NA	Marion System
Fern Terrace	180	72.38%	NA	NA	NA	NA	
Friendly Center	100	59.94%	NA	NA	NA	NA	Interconnected with East Lake Harris
Gibsonia Estates	180	81.68%	NA	NA	NA	NA	
Grand Terrace	600	13.10%	NA	NA	NA	NA	
Haines Creek	90	78.52%	NA	NA	NA	NA	
Harmony Homes	NA	0.00%	NA	NA	NA	NA	Interconnected
Hawks Point	185	58.85%	NA	NA	NA	NA	Marion System
Hermits Cove	150	25.00%	27,000	50.00%	160	46.88%	Interconnected with St Johns Highlands
Hobby Hills	150	69%	NA	NA	NA	NA	Fire Flow cannot be provided
Holiday Haven	NA	0.00%	NA	NA	NA	NA	Interconnected
Imperial Mobile Terrace	100	40.48%	NA	NA	NA	NA	Fire Flow cannot be provided
Interlachen - Park Manor	180	32.98%	27,000	79.14%	150	79.14%	See Subschedule below
Jasmine Lakes	520	51.42%	450,000	21.39%	1100	48.61%	See Subschedule below
Jungl Den	NA	0.00%	NA	NA	NA	NA	Interconnected
Kings Cove	225	100.00%	NA	NA	NA	NA	Fire Flow
Kingswood	NA	0.00%	NA	NA	NA	NA	Interconnected
Lake Gibson Estates	400	100.00%	NA	NA	NA	NA	
Leisure Lakes	50	74.79%	9,000	100.00%	208	35.96%	
Lake Osbourne Estates	NA	0.00%	NA	NA	NA	NA	Interconnected
Marion Hills	50	38.47%	NA	NA	NA	NA	Marion System
Morningview	425	7.55%	NA	NA	NA	NA	
Oakwood	NA	0.00%	NA	NA	NA	NA	Interconnected
Ocala Oaks (Combined)	NA	87.01%	NA	NA	NA	NA	Marion System
Orange Hill - Sugar Creek	107	100.00%	NA	NA	NA	NA	
Palms MHP	130	13.22%	NA	NA	NA	NA	
Palm Port	80	30.80%	18,000	49.29%	140	35.20%	
Palm Terrace	NA	0.00%	NA	NA	NA	NA	Interconnected
Picciola Island	100	92.62%	NA	NA	NA	NA	
Pomona Park	35	100.00%	NA	NA	NA	NA	
Piney Woods	300	18.46%	45,000	44.30%	300	36.91%	
Quail Ridge	650	82.12%	NA	NA	NA	NA	Fire Flow can be provided
Ravenswood	90	48.38%	NA	NA	NA	NA	
Ridgeview	90	45.38%	NA	NA	NA	NA	Marion System
River Grove	125	28.65%	16,200	79.58%	170	42.13%	See Subschedule below
Rosalie Oaks	250	12.18%	NA	NA	NA	NA	
St Johns Highlands	150	25.00%	27,000	50.00%	160	46.88%	interconnected with Hermits Cove
Sebring Lakes-Lake Josephine	1630	17.75%	65,700	100.00%	920	62.89%	See Subschedule below
Silver Lakes Estates	2025	74.86%	58,500	100.00%	2600	100.00%	Fire Flow
Silver Lakes Oaks	75	15.53%	10,800	38.83%	920	62.89%	See Subschedule below
Skycrest	175	47.25%	NA	NA	NA	NA	Fire Flow cannot be provided
Stone Mountain	100	9.36%	NA	NA	NA	NA	
Summit Chase	100	100.00%	NA	NA	NA	NA	Fire Flow can be provided
Sunny Hills Combined	710	42.16%	63,000	100.00%	700	100%	See Subschedule below
Tangerine	250	100%	NA	NA	NA	NA	Fire Flow cannot be provided
Tomoka-Twin Rivers	NA	29.15%	NA	100.00%	NA	82%	See Subschedule below
Valencia Terrace	250	100%	NA	NA	NA	NA	Fire Flow can be provided
Venetian Village	100	95.75%	NA	NA	NA	NA	
Village Water	NA	0.00%	NA	NA	NA	NA	Interconnected
Welaka Saratoga Harbour	110	41.71%	43,200	38.24%	280	32.77%	
Westview	70	27.04%	NA	NA	NA	NA	Marion System
Woodbury Forest	70	100.00%	NA	NA	NA	NA	Marion System
Wootens	20	38.30%	1,620	100.00%	156	9.82%	See Subschedule below
The Woods	100	9.17%	2,250	100.00%	102	17.97%	See Subschedule below
Zephyr Shores	500	18.59%	NA	NA	NA	NA	

Application Methodology

NARUC Acct	304.2	330.4	304.4
	305.2		311.4
	306.2		
	307.2		
	308.2		
	309.2		
	310.2		
	311.2		
	339.2		
	304.3		
	311.3		
	320.3		
	339.3		

System	Treatment		Storage		High Service	
	Firm Capacity	Non U & U	Firm Capacity	Non U & U	Firm Capacity	Non U & U
48 Estates	80	0.00%	NA	NA	NA	NA
49th Street Villas	75	2.65%	NA	NA	NA	NA
Avredondo Combined	NA	25.48%	NA	NA	NA	NA
Beecher's Point	NA	100.00%	NA	NA	NA	NA
Belleaire	92	0.00%	NA	NA	NA	NA
Bellview Hills Estates	200	5.25%	NA	NA	NA	NA
Bellview Hills	70	0.00%	NA	NA	NA	NA
Carlton Village	200	34.76%	NA	NA	NA	NA
Chappell Hill	70	36.62%	NA	NA	NA	NA
Chuluota	1250	51.12%	405,000	45.69%	1,950	37.34%
East Lake Harris	100	40.06%	NA	NA	NA	NA
Fairfax Hills	70	0.00%	NA	NA	NA	NA
Fern Terrace	180	27.62%	NA	NA	NA	NA
Friendly Center	100	40.06%	NA	NA	NA	NA
Gibsonia Estates	180	18.32%	NA	NA	NA	NA
Grand Terrace	600	86.90%	NA	NA	NA	NA
Haines Creek	90	21.48%	NA	NA	NA	NA
Harmony Homes	NA	100.00%	NA	NA	NA	NA
Hawks Point	185	41.15%	NA	NA	NA	NA
Hermits Cove	150	75.00%	27,000	50.00%	160	53.13%
Hobby Hills	150	30.92%	NA	NA	NA	NA
Holiday Haven	NA	100.00%	NA	NA	NA	NA
Imperial Mobile Terrace	100	59.52%	NA	NA	NA	NA
Interlachen - Park Manor	180	67.02%	27,000	20.86%	150	20.86%
Jasmine Lakes	520	48.58%	450,000	78.61%	1,100	51.39%
Jungl Den	NA	100.00%	NA	NA	NA	NA
Kings Cove	225	0.00%	NA	NA	NA	NA
Kingswood	NA	100.00%	NA	NA	NA	NA
Lake Gibson Estates	400	0.00%	NA	NA	NA	NA
Leisure Lakes	50	25.21%	9,000	0.00%	208	64.04%
Lake Osbourne Estates	NA	100.00%	NA	NA	NA	NA
Marion Hills	50	61.53%	NA	NA	NA	NA
Morningview	425	92.45%	NA	NA	NA	NA
Oakwood	NA	100.00%	NA	NA	NA	NA
Ocala Oaks (Combined)	NA	12.99%	NA	NA	NA	NA
Orange Hill - Sugar Creek	107	0.00%	NA	NA	NA	NA
Palms MHP	130	86.78%	NA	NA	NA	NA
Palm Port	80	69.20%	18,000	50.71%	140	64.80%
Palm Terrace	NA	100.00%	NA	NA	NA	NA
Picciola Island	100	7.38%	NA	NA	NA	NA
Pomona Park	35	0.00%	NA	NA	NA	NA
Piney Woods	300	81.54%	45,000	55.70%	300	63.09%
Quail Ridge	650	17.88%	NA	NA	NA	NA
Ravenswood	90	51.62%	NA	NA	NA	NA
Ridgeview	90	54.62%	NA	NA	NA	NA
River Grove	125	71.35%	16,200	20.42%	170	57.87%
Rosalie Oaks	250	87.82%	NA	NA	NA	NA
St Johns Highlands	150	75.00%	27,000	50.00%	160	53.13%
Sebring Lakes-Lake Josephine	1630	82.25%	65,700	0.00%	920	37.11%
Silver Lakes Estates	2025	25.14%	58,500	0.00%	2,600	0.00%
Silver Lakes Oaks	75	84.47%	10,800	61.17%	920	37.11%
Skycrest	175	52.75%	NA	NA	NA	NA
Stone Mountain	100	90.64%	NA	NA	NA	NA
Summit Chase	100	0.00%	NA	NA	NA	NA
Sunny Hills Combined	710	57.84%	63,000	0.00%	700	0.00%
Tangerine	250	0.00%	NA	NA	NA	NA
Tomoka-Twin Rivers	NA	70.85%	NA	0.00%	NA	17.78%
Valencia Terrace	250	0.00%	NA	NA	NA	NA
Venetian Village	100	4.25%	NA	NA	NA	NA
Village Water	NA	100.00%	NA	NA	NA	NA
Welaka Saratoga Harbour	110	58.29%	43,200	61.76%	280	67.23%
Westview	70	72.96%	NA	NA	NA	NA
Woodbury Forest	70	0.00%	NA	NA	NA	NA
Wootens	20	61.70%	1,620	0.00%	156	90.18%
The Woods	100	90.83%	2,250	0.00%	102	82.03%
Zephyr Shores	500	81.41%	NA	NA	NA	NA

48 Estates

Average Day Flow (gpd)		24,300	
Maximum Day Flow (gpd)		64,780	1
Calculated Peak Hour Flow (gpd)		129,560	
Peak Factor		2	
Average Day Flow (gpm)		17	
Maximum Day Flow (gpm)		45	
Calculated Peak Hour Flow (gpm)		90	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	22.1%	2	
Excess	12.1%		
UAW Adjustment (gpm)		2.0	
Adjusted Flows			
Maximum Day Flow (gpm)		43	
Calculated Peak Hour Flow (gpm)		86	
GROWTH ADJUSTMENT			
An. ERC Growth		0.33%	3
Period		7	
Growth Factor		1.02	
Adjusted Flows			
Maximum Day Flow (gpm)		44	
Calculated Peak Hour Flow (gpd)		88	
Required Fire Flow (gpm)		0	4
Wells			
	80 gpm	5	
	gpm		
Total	80		
Firm	80		
Treatment Used and Useful			
Firm Capacity (gpm)	80		
Peak Hour Flow (gpm)	88		
Used and Useful	100.00%		

Notes

1. MFRs identify the test year Max Day as 64,900 on Oct 19 rather than 104,000 on Oct 25
1. Used average of 5 highest days in the max month of October
2. from MFRs Document 1218-07
3. from MFRs
4. from MFRs Document 10956-06
5. from MFRs Document 937-07

Arredondo Combined

System	Connections	Used and Useful	Weighting Factor
Arredondo Estates	255	100.00%	255.00
Arredondo Farms	431	59.44%	256.21
Total	**686**		**511.21**
Averaged Used and Useful			74.52%

Arredondo Estates

Average Day Flow (gpd)		55,184	
Maximum Day Flow (gpd)		104,000	1
Calculated Peak Hour Flow (gpd)		208,000	
Peak Factor		2	
Average Day Flow (gpd)		38	
Maximum Day Flow (gpd)		72	
Calculated Peak Hour Flow (gpd)		144	
Peak Factor		2	
Unaacounted for Water Adjustment			
UAW	5.5%	2	
Excess	0.0%		
Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		72	
Calculated Peak Hour Flow (gpd)		144	
Required Fire Flow (gpm)		[illegible]	3
Wells			
	120 gpm	4	
	120 gpm	4	
Total	240		
Firm	120		
Treatment Used and Useful			
Firm Capacity (gpm)	120		
Peak Hour Flow (gpm)	144		
Used and Useful	100.00%		

Notes:

1. from MOR Analysis; MFRs are combined for Arredondo Estates and Farms
2. from MFRs Document 10941-06
3. from MFRs Document 10941-06
4. from Sanitary Survey and Field Inspections. MFRs show 420 and 370

Arredondo Farms

Average Day Flow (gpd)		59,200	
Maximum Day Flow (gpd)		107,000	1
Calculated Peak Hour Flow (gpd)		214,000	
Peak Factor		2	
Average Day Flow (gpd)		41	
Maximum Day Flow (gpd)		74	
Calculated Peak Hour Flow (gpd)		149	
Peak Factor		2	
Unaacounted for Water Adjustment			
UAW	5.5%	2	
Excess	0.0%		
Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		74	
Calculated Peak Hour Flow (gpd)		149	
Required Fire Flow (gpm)		[illegible]	3
Wells			
	250 gpm	4	
	300 gpm	4	
Total	550		
Firm	250		
Treatment Used and Useful			
Firm Capacity (gpm)	250		
Peak Flow (gpm)	149		
Used and Useful	59.44%		

Notes:

1. from MOR Analysis; MFRs are combined for Arredondo Estates and Farms
2. from MFRs Document 10941-06
3. from MFRs Document 10941-06
4. From Sanitary Survey and field insptections

Carlton Village

Average Day Flow (gpd)		52,305	
Maximum Day Flow (gpd)		82,187	1
Calculated Peak Hour Flow (gpd)		164,374	
Peak Factor		2	
Average Day Flow (gpm)		36	
Maximum Day Flow (gpm)		57	
Calculated Peak Hour Flow (gpd)		114	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	14.0%	2	
Excess	4.0%		
UAW Adjustment (gpm)		1.5	
Adjusted Flows			
Maximum Day Flow (gpm)		55.6	
Calculated Peak Hour Flow (gpd)		111.2	
GROWTH ADJUSTMENT			
An. ERC Growth		2.47%	
Period		7	
Growth Factor		1.17	
Adjusted Flows			
Maximum Day Flow (gpm)		65	
Calculated Peak Hour Flow (gpd)		130	
Required Fire Flow (gpm)		0	4
Wells			
	200 gpm	5	
	200 gpm	5	
Total	400		
Firm	200		
Treatment Used and Useful			
Firm Capacity (gpm)	200		
Peak Hour Flow (gpm)	130		
Used and Useful	65.24%		

Notes

1. In the MFRs a test year max day of 85,767 on March 13 rather than 109,000 on June 24
1. Used average of 5 highest days in the max month of March
2. from MFRs Document 1218-07
3. from MFRs
4. from MFRs Document 10947-06
5. from MFRs Document 937-07

Chuluota

Average Day Flow (gpd)		384,087	
Maximum Day Flow (gpd)		651,700	2
Calculated Peak Hour Flow (gpd)		1,303,400	
Peak Factor		2	
Average Day Flow (gpm)		267	
Maximum Day Flow (gpm)		453	
Calculated Peak Hour Flow (gpd)		905	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	2.2%	3	
Excess			
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		453	
Calculated Peak Hour Flow (gpd)		905	
GROWTH ADJUSTMENT			
An. ERC Growth	5%	4	
Period		7	
Growth Factor		1.35	
Adjusted Flows			
Maximum Day Flow (gpm)		611	
Calculated Peak Hour Flow (gpd)		1,222	
Required Fire Flow (gpm)		750	5

Wells			**HSPs**		**Storage**		
			500	6	Volume	450,000	gals
	500 gpm	6	500	6	Adjust	0.9	
	500 gpm	6	500	6	Usable Volume	405,000	gals
	500 gpm	6	500	6			
	250 gpm	6	450	6	Max Day (gal)	879,795	gals
Total	1750		2450		Factor	0.25	
Firm	1250		1950		Max Day Volume	219,949	gals
					Fire Flow	-	gpm
Treatment Used and Useful					Fire Flow Duration	2	hrs
					Fire Volume	-	gals
			Test 1				
Firm Capacity (gpm)	1,250		Firm Capacity (gpm)	1,950			
Max Day (gpm)	611		Peak Hour Flow (gpm)	1,221.9	Total	219,949	gals
Adjusted Max Day	611						
Used and Useful	48.88%		Used and Useful	62.66%	Used and Useful	54.31%	
			Test 2				
			Firm Capacity (gpm)	1,950			
			Max Day (gpm)	611			
			Fire Flow (gpm)	750			
			Peak Flow	1,361			
			Used and Useful	70%			

Notes

1. System does not have sufficient hydrants to provide fire flow throughout the entire sve area
2. from MFRs Document 10996-06
3. from MFRs Document 10996-06
4. MFRs show 12.44%
5. from MFRs Document 10996-06
6. from from San. Sur. totals match MFRs Document 937-07
7. from from San. Sur.

East Lake Harris - Friendly Center

Average Day Flow (gpd)	20,575	
Maximum Day Flow (gpd)	41,800	1
Calculated Peak Hour Flow (gpd)	83,600	
Peak Factor	2	
Average Day Flow (gpm)	14	
Maximum Day Flow (gpm)	29	
Calculated Peak Hour Flow (gpd)	58	
Peak Factor	2	

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	11.6%	
Excess	1.6%	
UAW Adjustment (gpm)	- 0.2	

Adjusted Flows		
Maximum Day Flow (gpm)	29	
Calculated Peak Hour Flow (gpd)	58	

GROWTH ADJUSTMENT

An. ERC Growth	0.58%	
Period	7	
Growth Factor	1.04	
Adjusted Flows		
Maximum Day Flow (gpm)	30	
Calculated Peak Hour Flow (gpd)	60	
Required Fire Flow (gpm)	-	6

Wells

	100	gpm	7
	200	gpm	8
Total	300		
Firm	100		

Treatment Used and Useful

Firm Capacity (gpm)	100
Peak Hour Flow (gpm)	60
Used and Useful	59.94%

Unaccounted for Water Analysis

UAW (E Lk Harris)	3.5%	2
UAW(Fri. Cntr)	34.7%	3
Test Year ADF (E Lk Harris)	13,194	4
Test Year ADF (Fri Cntr)	8,670	4
Weighted UAW	11.6%	

Growth Analysis

2005 ERCs East Lake Harris	172	5
2005 ERCs Friendly Cntr	25	5
Annual ERC growth ELH	0.03%	5
Annual ERC growth Friendly Cntr	4.40%	5
Weighted growth	0.58%	

Notes

1. from MFRs Document 10948-06 matches combined MORs
2. from MFRs Document 1218-07
3. from MFRs Document 10949-06
4. from MORs
5. from MFRs F-9
6. from MFRs Document 10948-06
7. from MFRs Document 1217-07 East Lake Harris well
8. from MFRs Document 937-07 Friendly Center well

Fern Terrace

Average Day Flow (gpd)		35,884	
Maximum Day Flow (gpd)		93,800	1
Calculated Peak Hour Flow (gpd)		187,600	
Peak Factor		2	
Average Day Flow (gpm)		25	
Maximum Day Flow (gpm)		65	
Calculated Peak Hour Flow (gpd)		130	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	7.4%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		65	
Calculated Peak Hour Flow (gpd)		130	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		65	
Calculated Peak Hour Flow (gpd)		130	
Required Fire Flow (gpm)		-	4
Wells			
	180 gpm		5
	gpm		
Total	180		
Firm	180		
Treatment Used and Useful			
Firm Capacity (gpm)		180	
Peak Hour Flow (gpm)		130	
Used and Useful		72.38%	

Notes:

1. from MFRs Document 10950-06
2. from MFRs Document 10950-06
3. MFRs show -0.28%
4. from MFRs Document 10950-06
5. from MFRs Document 1217-07

Gibsonia Estates

Average Day Flow (gpd)		50,189	
Maximum Day Flow (gpd)		88,200	1
Calculated Peak Hour Flow (gpd)		176,400	
Peak Factor		2	
Average Day Flow (gpm)		35	
Maximum Day Flow (gpm)		61	
Calculated Peak Hour Flow (gpd)		123	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	6.6%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		61.3	
Calculated Peak Hour Flow (gpd)		122.5	
GROWTH ADJUSTMENT			
An. ERC Growth		2.86%	3
Period		7	
Growth Factor		1.20	
Adjusted Flows			
Maximum Day Flow (gpm)		74	
Calculated Peak Hour Flow (gpd)		147	
Required Fire Flow (gpm)		-	4
Wells			
	305 gpm		5
	180 gpm		5
Total	485		
Firm	180		
Treatment Used and Useful			
Firm Capacity (gpm)	180		
Peak Flow (gpm)	147		
Used and Useful	81.68%		

Notes

1. Used average of 5 highest days in the max month of April
2. from MFRs Document 10981-06
3. from MFRs
4. from MFRs Document 10981-06
5. Diasagree.from MFRs Document 1217-07; Flows shown based on onste O&M manual

Grand Terrace

Average Day Flow (gpd)		28,767	
Maximum Day Flow (gpd)		56,600	1
Calculated Peak Hour Flow (gpd)		113,200	
Peak Factor		2	
Average Day Flow (gpm)		20	
Maximum Day Flow (gpm)		39	
Calculated Peak Hour Flow (gpd)		79	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	7.1%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		39	
Calculated Peak Hour Flow (gpd)		79	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	0
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		39	
Calculated Peak Hour Flow (gpd)		79	
Required Fire Flow (gpm)		-	4
Wells			
	600 gpm		5
	gpm		
Total	600		
Firm	600		
Treatment Used and Useful			
Firm Capacity (gpm)		600	
Peak Hour Flow (gpm)		79	
Used and Useful		13.10%	

Notes

1. from MFRs 10951-06
2. from MFRs 10951-06
3. MFRs show a -0.34%
4. from MFRs 10951-06
5. from MFRs 1217-07

Haines Creek

Average Day Flow (gpd)		17,510	
Maximum Day Flow (gpd)		44,800	1
Calculated Peak Hour Flow (gpd)		89,600	
Peak Factor		2	
Average Day Flow (gpm)		12	
Maximum Day Flow (gpm)		31	
Calculated Peak Hour Flow (gpm)		62	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	5.0%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		31.1	
Calculated Peak Hour Flow (gpm)		62.2	
GROWTH ADJUSTMENT			
An. ERC Growth		1.94%	3
Period		7	
Growth Factor		1.14	
Adjusted Flows			
Maximum Day Flow (gpm)		35	
Calculated Peak Hour Flow (gpd)		71	
Required Fire Flow (gpm)		-	4
Wells			
	90 gpm	5	
	gpm		
Total	90		
Firm	90		
Treatment Used and Useful			
Firm Capacity (gpm)	90		
Peak Flow (gpm)	71		
Used and Useful	78.52%		

Notes

1. from MFRs Document 10954-06
2. from MFRs Document 10954-06
3. MFRs show 1.94% but indicate that the service area is builtout
4. from MFRs Document 10954-06
5. from MFRs Document 10954-06

Harmony Homes

Average Day Flow (gpd)		
Maximum Day Flow (gpd)		
Calculated Peak Hour Flow (gpd)		-
Peak Factor		2
Average Day Flow (gpm)		-
Maximum Day Flow (gpm)		-
Calculated Peak Hour Flow (gpd)		-
Peak Factor		2

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	6.8%	from MFRs Document 10998-06
Excess	0.0%	

UAW Adjustment (gpm)	-	-

Adjusted Flows	
Maximum Day Flow (gpm)	-
Calculated Peak Hour Flow (gpm)	-

GROWTH ADJUSTMENT

An. ERC Growth	0%	MFRs show -0.21%
Period	7	
Growth Factor	1.00	

Adjusted Flows	
Maximum Day Flow (gpm)	-
Calculated Peak Hour Flow (gpd)	-
Required Fire Flow (gpm)	-

Wells

		gpm
		gpm
Total	0	
Firm	0	

Treatment Used and Useful

Firm Capacity (gpm)	-
Peak Flow (gpm)	-
Used and Useful	#DIV/0!

Notes: Check for Harmony Interconnect

Hermits Cove

Average Day Flow (gpd)		17,144	
Maximum Day Flow (gpd)		54,000	1
Calculated Peak Hour Flow (gpd)		108,000	
Peak Factor		2	
Average Day Flow (gpm)		12	
Maximum Day Flow (gpm)		38	
Calculated Peak Hour Flow (gpm)		75	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	28.8%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		37.5	
Calculated Peak Hour Flow (gpd)		75.0	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		38	
Calculated Peak Hour Flow (gpd)		75	
Required Fire Flow (gpm)			4

Wells			**HSPs**		**Storage**		
			160	5	Volume	30,000	gals
	150 gpm	5	160	5	Adjust	0.9	
	150 gpm	5			Usable Volume	27,000	gals
	0 gpm						
	0 gpm				Max Day (gal)	54,000	gals
Total	300		320		Factor	0.25	
Firm	150		160		Max Day Volume	13,500	gals
					Fire Flow	-	gpm
					Fire Flow Duration	2	hrs
Treatment Used and Useful					Fire Volume	-	gals
			Test 1				
Firm Capacity (gpm)	150		Firm Capacity (gpm)	160			
Max Day (gpm)	38		Peak Hour Flow (gpm)	75.0	Total	13,500	gals
Adjusted Max Day	38						
Used and Useful	25.00%		Used and Useful	46.88%	Used and Useful	50.00%	
			Test 2				
			Firm Capacity (gpm)	160			
			Max Day (gpm)	38			
			Fire Flow (gpm)	0			
			Peak Flow	38			
			Used and Useful	23%			

Notes:

1. from MFRs Document 10987-06
2. from MFRs Document 1218-07
3. MFRs show -0.15%
4. from MFRs Document 10987-06
5. from MFRs Document 937-07

Hobby Hills

Average Day Flow (gpd)		26,131	
Maximum Day Flow (gpd)		78,160	2
Calculated Peak Hour Flow (gpd)		156,320	
Peak Factor		2	
Average Day Flow (gpm)		18	
Maximum Day Flow (gpm)		54	
Calculated Peak Hour Flow (gpd)		109	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	23.6%	3	
Excess	13.6%		
UAW Adjustment (gpm)		2.5	
Adjusted Flows			
Maximum Day Flow (gpm)		52	
Calculated Peak Hour Flow (gpd)		104	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	4
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		52	
Calculated Peak Hour Flow (gpd)		104	
Required Fire Flow (gpm)		500	5

Wells

175	gpm	6
150	gpm	6
Total 325		
Firm 150		

Treatment Used and Useful

Test 1	
Firm Capacity (gpm)	150
Peak Flow (gpm)	104
Used and Useful	69.08%
Test 2	
Firm Capacity (gpm)	150
Max Day (gpm)	52
Fire Flow (gpm)	500
Peak Flow (gpm)	552
Used and Useful	100%

Notes

1. The system maps show no fire hydrants or sufficiently sized lines to provide fire flow
2. From MFRs 10952-06
3. from MFRs Document 1218-07
4. MFRs show -0.15%
5. From MFRs Document 10952-06

Imperial Mobile Terrace

Average Day Flow (gpd)		18,825	
Maximum Day Flow (gpd)		28,237	
Calculated Peak Hour Flow (gpd)		56,474	
Peak Factor		2	
Average Day Flow (gpm)		13	
Maximum Day Flow (gpm)		20	
Calculated Peak Hour Flow (gpm)		39	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	-617.2%	3	
Excess	0.0%		
UAW Adjustment (gpm)		-	-
Adjusted Flows			
Maximum Day Flow (gpm)		19.6	
Calculated Peak Hour Flow (gpd)		39.2	
GROWTH ADJUSTMENT			
An. ERC Growth		0.46%	4
Period		7	
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpm)		20	
Calculated Peak Hour Flow (gpd)		40	
Required Fire Flow (gpm)		500	5
Wells			
	400 gpm	6	
	100 gpm	6	
Total	500		
Firm	100		

Use gallons sold to approximate test year flows

Jan	632
Feb	758
Mar	834
Apr	598
May	753
Jun	492
Jul	469
Aug	406
Sep	426
Oct	418
Nov	511
Dec	574
Tot	6871
ADF (gpd)	18,825
MDF/ADF	1.5
MDF (gpd)	28,237

Treatment Used and Useful

Test 1	
Firm Capacity (gpm)	100
Peak Flow (gpm)	40
Used and Useful	40.48%

Test 2	
Firm Capacity (gpm)	100
Max Day (gpm)	20
Fire Flow (gpm)	500
Peak Flow (gpm)	520
Used and Useful	100%

Notes

1. MOR data inaccurate due to unknown interconnection with City of Tavares
2. The system maps show no fire hydrants or sufficiently sized lines to provide fire flow
3. from MFRs Document 1218-07
4. MFRs show 0.46%
5. from MFRs Document 10955-06

Imperial Mobile Terrace

6. from MFRs Document 937-07

Interlachen - Park Manor

Average Day Flow (gpd)		65,461	
Maximum Day Flow (gpd)		106,487	1
Calculated Peak Flow (gpd)		212,974	
Peak Factor		2	
Average Day Flow (gpm)		45	
Maximum Day Flow (gpm)		74	
Calculated Peak Flow (gpm)		148	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	42.1%	2	
Excess	32.1%		
UAW Adjustment (gpm)		14.6	
Adjusted Flows			
Maximum Day Flow (gpm)		59.4	
Calculated Peak Hour Flow (gpd)		118.7	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		59	
Calculated Peak Hour Flow (gpd)		119	
Required Fire Flow (gpm)			4

Wells			**HSPs**		**Storage**			
					Volume	30,000	gals	5
	180 gpm	5	150	5	Adjust	0.9		
	180 gpm	5	150	5	Usable Volume	27,000	gals	
	0 gpm							
	0 gpm				Max Day (gal)	85,474	gals	
Total	360		300		Factor	0.25		
Firm	180		150		Max Day Volume	21,369	gals	
					Fire Flow	-	gpm	
Treatment Used and Useful					Fire Flow Duration	2	hrs	
			Test 1		Fire Volume	-	gals	
Firm Capacity (gpm)	180		Firm Capacity (gpm)	150				
Max Day (gpm)	59		Peak Hour Flow (gpm)	118.7	Total	21,369	gals	
Adjusted Max Day	59							
Used and Useful	32.98%		Used and Useful	79.14%	Used and Useful	79.14%		
			Test 2					
			Firm Capacity (gpm)	150				
			Max Day (gpm)	59				
			Fire Flow (gpm)	-				
			Peak Flow	59				
			Used and Useful	40%				

Notes:

1. Used average of 5 highest days in the max month of March
1. MFRs use max day flow of 122,200 on Mar 8
instead of 126,600 on Sep 30
2. from MFRs Document 1218-07
3. MFRs show -1.01%
4. From MFRs Document 10988-06
5. from MFRs Document 937-07

Jasmine Lakes

Average Day Flow (gpd)		289,057	
Maximum Day Flow (gpd)		385,000	1
Calculated Peak Hour Flow (gpd)		770,000	
Peak Factor		2	
Average Day Flow (gpm)		201	
Maximum Day Flow (gpm)		267	
Calculated Peak Hour Flow (gpm)		535	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	1.4%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	-
Adjusted Flows			
Maximum Day Flow (gpm)		267.4	
Calculated Peak Hour Flow (gpm)		534.7	
GROWTH ADJUSTMENT			
An. ERC Growth		0.00%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		267	
Calculated Peak Hour Flow (gpd)		535	
Required Fire Flow (gpm)		-	4

Wells				**HSPs**		**Storage**		
	260 gpm			800		Volume	500,000	gals
	260 gpm			800		*Adjust*	0.9	
	260 gpm			300		Usable Volume	450,000	gals
	gpm					Max Day (gal)	385,000	gals
Total	780	5		1900	5	Factor	0.25	
Firm	520	5		1100	5	Max Day Allowance	96,250	gals
						Fire Flow	-	gpm
						Fire Flow Duration	2	*hrs*
						Fire Volume	-	gals

Treatment Used and Useful				
Firm Capacity (gpm)	520	Firm Capacity (gpm)	1,100	
Max Day (gpm)	267	Peak Flow (gpm)	534.7	Total 96,250 gals
Fire Flow (gpm)	-			
Adjusted Max Day	267			
Used and Useful	51.42%	Used and Useful	48.61%	Used and Useful 21.39%

Notes

1. MFRs use max day of 470,000 on Sept 23 rather than 610,000 on Aug 1
1. Used average of 5 highest days in the max month of September
2. from MFRs Document 10978-06
3. MFRs show 0.02% but indicate service area is built out
4. from MFRs Document 10978-06
5. from MFRs Document 937-07

Kings Cove

Average Day Flow (gpd)	86,620	
Maximum Day Flow (gpd)	192,000	1
Calculated Peak Hour Flow (gpd)	384,000	
Peak Factor	2	
Average Day Flow (gpm)	60	
Maximum Day Flow (gpm)	133	
Calculated Peak Hour Flow (gpm)	267	
Peak Factor	2	

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	6.8%	2
Excess	0.0%	

UAW Adjustment (gpm)	-	
Adjusted Flows		
Maximum Day Flow (gpm)	133	
Calculated Peak Hour Flow (gpm)	267	

GROWTH ADJUSTMENT

An. ERC Growth	0%	3
Period	7	
Growth Factor	1.00	

Adjusted Flows		
Maximum Day Flow (gpm)	133	
Calculated Peak Hour Flow (gpd)	267	
Required Fire Flow (gpm)	500	4

Wells

	300 gpm	5
	225 gpm	5
Total	525	
Firm	225	

Treatment Used and Useful

Test 1

Firm Capacity (gpm)	225
Peak Flow (gpm)	267
Used and Useful	100.00%

Test 2

Firm Capacity (gpm)	225
Max Day (gpm)	133
Fire Flow (gpm)	500
Peak Flow (gpm)	633
Used and Useful	100%

Notes

1. from MFRs Document 10957-06
2. from MFRs Document 10957-06
3. MFRs show 0.49% but indicate service area is built out
4. from MFRs Document 10957-06
5. from MFRs Document 1217-07

Lake Gibson Estates

Average Day Flow (gpd)		237,458	
Maximum Day Flow (gpd)		389,600	1
Calculated Peak Hour Flow (gpd)		779,200	
Peak Factor		2	
Average Day Flow (gpm)		165	
Maximum Day Flow (gpm)		271	
Calculated Peak Hour Flow (gpm)		541	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
Test Year UAW	14.9%	2	
Excess UAW	4.9%		
UAW Adjustment (gpm)		8.1	
Adjusted Flows			
Maximum Day Flow (gpm)		262.5	
Calculated Peak Hour Flow (gpd)		525.0	3
GROWTH ADJUSTMENT			
An. ERC Growth		0.61%	From MFRs
Period		7	
Growth Factor		1.04	
Adjusted Flows			
Maximum Day Flow (gpm)		274	
Calculated Peak Hour Flow (gpd)		547	
Required Fire Flow (gpm)		-	
Wells			
	700 gpm	5	
	400 gpm	5	
Total	1100		
Firm	400		
***Treatment* Used and Useful**			
Firm Capacity (gpm)	400		
Peak Flow (gpm)	547		
Used and Useful	100.00%		

Notes

1. MFRs use 370,497 for max day in stead of 492,000 on May 1
1. Used average of 5 highest days in the max month of May
2. from MFRs Document 1218-07
3. from MFRs Document 1217-07
4. From MFRs
5. from MFRs Document 1217-07

Leisure Lakes

Average Day Flow (gpd)		32,117	
Maximum Day Flow (gpd)		55,400	1
Calculated Peak Hour Flow (gpd)		110,800	
Peak Factor		2	
Average Day Flow (gpm)		22	
Maximum Day Flow (gpm)		38	
Calculated Peak Hour Flow (gpm)		77	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	32.1%	2	
Excess	22.1%		
UAW Adjustment (gpm)	-	4.9	-
Adjusted Flows			
Maximum Day Flow (gpm)	-	33.5	
Calculated Peak Hour Flow (g	-	67.1	
GROWTH ADJUSTMENT			
An. ERC Growth		1.64%	3
Period		7	
Growth Factor		1.11	
Adjusted Flows			
Maximum Day Flow (gpm)		37	
Calculated Peak Hour Flow (gpd)		75	
Required Fire Flow (gpm)	-	-	4

Wells			**HSPs**		**Storage**	
					Volume	10,000 gals
	200 gpm	5	208	5	Adjust	0.9
	50 gpm	5	208	5	Usable Volume	9,000 gals
	gpm					
	gpm				Max Day (gal)	53,847 gals
Total	250		416		Factor	0.25
Firm	50		208		Max Day Allowance	13,462 gals
					Fire Flow	- gpm
Treatment Used and Useful					Fire Flow Duration	2 hrs
					Fire Volume	- gals
Firm Capacity (gpm)	50	Firm Capacity (gpm)	208			
Max Day (gpm)	37	Peak Flow (gpm)	74.8		Total	13,462 gals
Fire Flow (gpm)	-					
Adjusted Max Day	37					
Used and Useful	74.79%	Used and Useful	35.96%		Used and Useful	100.00%

Notes

1. MFRs use 107,000 on June 29 for max day instead of 125,000
1. Used average of 5 highest days in the max month of Oct
2. from MFRs Document 1218-07
3. From MFRs
4. from MFRs Document 10945-06
5. from MFRs Document 937-07

Morningview

Average Day Flow (gpd)		7,072	
Maximum Day Flow (gpd)		23,100	1
Calculated Peak Flow (gpd)		46,200	
Peak Factor		2	
Average Day Flow (gpm)		5	
Maximum Day Flow (gpm)		16	
Calculated Peak Flow (gpm)		32	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	9.6%	2	
Excess	0.0%		
UAW Adjustment (gpm)	-	-	
Adjusted Flows			
Maximum Day Flow (gpm)		16.0	
Calculated Peak Hour Flow (gpd)		32.1	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		16	
Calculated Peak Hour Flow (gpd)		32	
Required Fire Flow (gpm)		-	4

Wells

425	gpm	from MFRs Document 937-07
	gpm	
Total	425	
Firm	425	

Treatment Used and Useful

Firm Capacity (gpm)	425
Peak Flow (gpm)	32
Used and Useful	7.55%

Notes

1. from MFRs Document 10959-06
2. from MFRs Document 10959-06
3. MFRs show -0.75%
4. from MFRs Document 10959-06
5. from MFRs Document 937-07

Ocala Oaks

System	Connections	Used and Useful	Weighting Factor
49th Street Villas	102	97.35%	99.30
Bellaire	218	100.00%	218.00
Bellveiw Hills	114	100.00%	114.00
Bellview Hills Estates	324	94.75%	306.99
Chappell Hill	41	63.38%	25.99
Fairfax Hills	86	100.00%	86.00
Hawks Point	57	58.85%	33.54
Marion Hills	29	38.47%	11.16
Ocala Oaks	595	82.77%	492.48
Ridgeview	34	45.38%	15.43
Westview	30	27.04%	8.11
Woodbury Forest	56	100.00%	56.00
Total	**1686**		**1467.00**
Averaged Used and Useful			87.01%

Ocala Oaks

Average Day Flow (gpd)		162,046	
Maximum Day Flow (gpd)		328,400	1
Calculated Peak Flow (gpd)		656,800	
Peak Factor		2	
Average Day Flow (gpm)		113	
Maximum Day Flow (gpm)		228	
Calculated Peak Flow (gpm)		456	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	17.4%	2	
Excess	7.4%		
UAW Adjustment (gpm)		8.3	
Adjusted Flows			
Maximum Day Flow (gpm)		219.7	
Calculated Peak Hour Flow (gpm)		439.5	
GROWTH ADJUSTMENT			
An. ERC Growth		1.32%	3
Period		7	
Growth Factor		1.09	
Adjusted Flows			
Maximum Day Flow (gpm)		240	
Calculated Peak Hour Flow (gpd)		480	
Required Fire Flow (gpm)		-	4
Wells			
	280 gpm	5	
	340 gpm	5	
	300 gpm	5	
Total	920		
Firm	580		
Treatment Used and Useful			
Firm Capacity (gpm)	580		
Peak Flow (gpm)	480		
Used and Useful	82.77%		

Notes

1. MFRs use 310,000 on May 27 as Max day instead of 555,000 on May 3
1. Used average of 5 highest days in the max month of May
2. from MFRs Document 1218-07
3. From MFRs
4. From MFRs Document 10975-06
5. Response to Staff POD No. 31

49th Street Villas

Average Day Flow (gpd)	25,340	
Maximum Day Flow (gpd)	50,000	1
Calculated Peak Hour Flow (gpd)	100,000	
Peak Factor	2	
Average Day Flow (gpm)	18	
Maximum Day Flow (gpm)	35	
Calculated Peak Hour Flow (gpd)	69	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	1.3	
Adjusted Flows		
Maximum Day Flow (gpm)	33	
Calculated Peak Hour Flow (gpm)	67	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	37	
Calculated Peak Hour Flow (gpd)	73	
Required Fire Flow (gpm)		
Wells		
75 gpm		4
gpm		
Total	75	
Firm	75	

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	75	
Peak Flow (gpm)	73	
Used and Useful	97.35%	

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Bellaire

Average Day Flow (gpd)	67,801	
Maximum Day Flow (gpd)	239,000	1
Calculated Peak Hour Flow (gpd)	478,000	
Peak Factor	2	
Average Day Flow (gpm)	47	
Maximum Day Flow (gpm)	166	
Calculated Peak Hour Flow (gpd)	332	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	3.5	
Adjusted Flows		
Maximum Day Flow (gpm)	162	
Calculated Peak Hour Flow (gpm)	325	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	178	
Calculated Peak Hour Flow (gpd)	355	
Required Fire Flow (gpm)		
Wells		
92 gpm		4
92 gpm		4
Total 184		
Firm 92		

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	92	
Peak Flow (gpm)	355	
Used and Useful	100.00%	

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Bellveiw Hills

Average Day Flow (gpd)	25,766	
Maximum Day Flow (gpd)	50,000	1
Calculated Peak Hour Flow (gpd)	100,000	
Peak Factor	2	
Average Day Flow (gpm)	18	
Maximum Day Flow (gpm)	35	
Calculated Peak Hour Flow (gpd)	69	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	1.3	
Adjusted Flows		
Maximum Day Flow (gpm)	33	
Calculated Peak Hour Flow (gpm)	67	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	36	
Calculated Peak Hour Flow (gpd)	73	
Required Fire Flow (gpm)		
Wells		
70 gpm		4
70 gpm		4
Total 140		
Firm 70		

Treatment Used and Useful	
Test 1	
Firm Capacity (gpm)	70
Peak Flow (gpm)	73
Used and Useful	100.00%

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Bellview Hills Estates

Average Day Flow (gpd)	68,911	
Maximum Day Flow (gpd)	130,000	1
Calculated Peak Hour Flow (gpd)	260,000	
Peak Factor	2	
Average Day Flow (gpm)	48	
Maximum Day Flow (gpm)	90	
Calculated Peak Hour Flow (gpd)	181	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	3.5	
Adjusted Flows		
Maximum Day Flow (gpm)	87	
Calculated Peak Hour Flow (gpm)	173	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	95	
Calculated Peak Hour Flow (gpd)	190	
Required Fire Flow (gpm)		
Wells		
	200 gpm	4
	200 gpm	
Total	400	
Firm	200	

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	200	
Peak Flow (gpm)	190	
Used and Useful	94.75%	

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Chappell Hill

Average Day Flow (gpd)	10,253	
Maximum Day Flow (gpd)	30,000	1
Calculated Peak Hour Flow (gpd)	60,000	
Peak Factor	2	
Average Day Flow (gpm)	7	
Maximum Day Flow (gpm)	21	
Calculated Peak Hour Flow (gpd)	42	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	0.5	
Adjusted Flows		
Maximum Day Flow (gpm)	20	
Calculated Peak Hour Flow (gpm)	41	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	22	
Calculated Peak Hour Flow (gpd)	44	
Required Fire Flow (gpm)		
Wells		
	70 gpm	4
	gpm	
Total	70	
Firm	70	

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	70	
Peak Flow (gpm)	44	
Used and Useful	63.38%	

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Fairfax Hills

Average Day Flow (gpd)	24,878	
Maximum Day Flow (gpd)	79,000	1
Calculated Peak Hour Flow (gpd)	158,000	
Peak Factor	2	
Average Day Flow (gpm)	17	
Maximum Day Flow (gpm)	55	
Calculated Peak Hour Flow (gpd)	110	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	1.3	
Adjusted Flows		
Maximum Day Flow (gpm)	54	
Calculated Peak Hour Flow (gpm)	107	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	59	
Calculated Peak Hour Flow (gpd)	117	

Required Fire Flow (gpm)

Wells

	70 gpm	4
	70 gpm	4
Total	140	
Firm	70	

Treatment Used and Useful

Test 1

Firm Capacity (gpm)	70
Peak Flow (gpm)	117
Used and Useful	100.00%

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Hawks Point

Average Day Flow (gpd)	30,325	
Maximum Day Flow (gpd)	74,000	1
Calculated Peak Hour Flow (gpd)	148,000	
Peak Factor	2	
Average Day Flow (gpm)	21	
Maximum Day Flow (gpm)	51	
Calculated Peak Hour Flow (gpd)	103	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	1.6	
Adjusted Flows		
Maximum Day Flow (gpm)	50	
Calculated Peak Hour Flow (gpm)	100	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	54	
Calculated Peak Hour Flow (gpd)	109	
Required Fire Flow (gpm)		
Wells		
185 gpm		4
185 gpm		4
Total 370		
Firm 185		
Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	185	
Peak Flow (gpm)	109	
Used and Useful	58.85%	

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Marion Hills

Average Day Flow (gpd)	4,334	
Maximum Day Flow (gpd)	13,000	1
Calculated Peak Hour Flow (gpd)	26,000	
Peak Factor	2	
Average Day Flow (gpm)	3	
Maximum Day Flow (gpm)	9	
Calculated Peak Hour Flow (gpd)	18	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	0.2	
Adjusted Flows		
Maximum Day Flow (gpm)	9	
Calculated Peak Hour Flow (gpm)	18	
GROWTH ADJUSTMENT		
An. ERC Growth	132%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	10	
Calculated Peak Hour Flow (gpd)	19	
Required Fire Flow (gpm)		
Wells		
[redacted]	50 gpm	4
	gpm	
Total	50	
Firm	50	

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	50	
Peak Flow (gpm)	19	
Used and Useful	38.47%	

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Ridgeview

Average Day Flow (gpd)	14,603	
Maximum Day Flow (gpd)	28,000	1
Calculated Peak Hour Flow (gpd)	56,000	
Peak Factor	2	
Average Day Flow (gpm)	10	
Maximum Day Flow (gpm)	19	
Calculated Peak Hour Flow (gpd)	39	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	0.8	
Adjusted Flows		
Maximum Day Flow (gpm)	19	
Calculated Peak Hour Flow (gpm)	37	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	20	
Calculated Peak Hour Flow (gpd)	41	
Required Fire Flow (gpm)		
Wells		
90 gpm		4
90 gpm		4
Total 180		
Firm 90		

Treatment Used and Useful	
Test 1	
Firm Capacity (gpm)	90
Peak Flow (gpm)	41
Used and Useful	45.38%

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Westview

Average Day Flow (gpd)	7,115	
Maximum Day Flow (gpd)	13,000	1
Calculated Peak Hour Flow (gpd)	26,000	
Peak Factor	2	
Average Day Flow (gpm)	5	
Maximum Day Flow (gpm)	9	
Calculated Peak Hour Flow (gpd)	18	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	0.4	
Adjusted Flows		
Maximum Day Flow (gpm)	9	
Calculated Peak Hour Flow (gpm)	17	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	9	
Calculated Peak Hour Flow (gpd)	19	

Required Fire Flow (gpm)

Wells

	70	gpm	4
		gpm	
Total	70		
Firm	70		

Treatment Used and Useful

Test 1

Firm Capacity (gpm)	70
Peak Flow (gpm)	19
Used and Useful	27.04%

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Woodbury Forest

Average Day Flow (gpd)	15,253	
Maximum Day Flow (gpd)	48,000	1
Calculated Peak Hour Flow (gpd)	96,000	
Peak Factor	2	
Average Day Flow (gpm)	11	
Maximum Day Flow (gpm)	33	
Calculated Peak Hour Flow (gpd)	67	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	17.4%	2
Excess	7.4%	
UAW Adjustment (gpm)	0.8	
Adjusted Flows		
Maximum Day Flow (gpm)	33	
Calculated Peak Hour Flow (gpm)	65	
GROWTH ADJUSTMENT		
An. ERC Growth	1.32%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	36	
Calculated Peak Hour Flow (gpd)	71	
Required Fire Flow (gpm)		
Wells		
	70 gpm	4
	gpm	
Total	70	
Firm	70	

Treatment Used and Useful		
Test 1		
Firm Capacity (gpm)	70	
Peak Flow (gpm)	71	
Used and Useful	100.00%	

Notes

1. from MOR analysis
2. from Ocala Oaks
3. from Ocala Oaks
4. from Sanitary Survey

Orange Hill - Sugar Creek

Average Day Flow (gpd)		57,285	
Maximum Day Flow (gpd)		143,066	1
Calculated Peak Flow (gpd)		286,132	
Peak Factor		2	
Average Day Flow (gpm)		40	
Maximum Day Flow (gpm)		99	
Calculated Peak Flow (gpm)		199	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	8.3%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		99.4	
Calculated Peak Hour Flow (gpd)		198.7	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		99	
Calculated Peak Hour Flow (gpd)		199	
Required Fire Flow (gpm)		-	4
Wells			
	142 gpm	5	
	107 gpm	5	
Total	249		
Firm	107		
Treatment Used and Useful			
Firm Capacity (gpm)	107		
Peak Flow (gpm)	199		
Used and Useful	100.00%		

Notes

1. MFRs use 91,333 on May 28 for max day although several days are higher. Max is 209,000gpd
1. Used average of 5 highest days in the max month of Dec
2. from MFRs Document 10983-06
3. MFRs show -8.72%
4. from MFRs Document 10983-06
5. from MFRs Document 1217-07

Palms MHP

Average Day Flow (gpd)		10,135	
Maximum Day Flow (gpd)		17,420	1
Calculated Peak Flow (gpd)		34,840	
Peak Factor		2	
Average Day Flow (gpm)		7	
Maximum Day Flow (gpm)		12	
Calculated Peak Flow (gpm)		24	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	59.8%	2	
Excess	49.8%		
UAW Adjustment (gpm)		3.5	
Adjusted Flows			
Maximum Day Flow (gpm)		8.6	
Calculated Peak Hour Flow (gpd)		17.2	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		9	
Calculated Peak Hour Flow (gpd)		17	
Required Fire Flow (gpm)		-	4
Wells			
	130 gpm		5
	gpm		
Total	130		
Firm	130		

Treatment Used and Useful

Firm Capacity (gpm)	130
Peak Flow (gpm)	17
Used and Useful	13.22%

Notes

1. MFRs use 16,200 gpd for max day it appears there are several days that are higher
1. Used average of 5 highest days in the max month of Dec
2. from MFRs Document 1218-07
3. MFRs show -0.63
4. from MFRs Document 10961-06
5. from MFRs Document 937-07

Palm Port

Average Day Flow (gpd)		15,059	
Maximum Day Flow (gpd)		34,900	1
Calculated Peak Hour Flow (gpd)		69,800	
Peak Factor		2	
Average Day Flow (gpm)		10	
Maximum Day Flow (gpm)		24	
Calculated Peak Hour Flow (gpm)		48	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	6.0%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		24.2	
Calculated Peak Hour Flow (gpd)		48.5	
GROWTH ADJUSTMENT			
An. ERC Growth		0.24%	3
Period		7	
Growth Factor		1.02	
Adjusted Flows			
Maximum Day Flow (gpm)		25	
Calculated Peak Hour Flow (gpd)		49	
Required Fire Flow (gpm)		25	4

Wells			**HSPs**		**Storage**		
			140	5	Volume	20,000	gals
	80 gpm	5	140	5	Adjust	0.9	
	gpm				Usable Volume	18,000	gals
	gpm						
	gpm				Max Day (gal)	35,486	gals
Total	80		280		Factor	0.25	
Firm	80		140		Max Day Allowance	8,872	gals
					Fire Flow	-	gpm
Treatment Used and Useful					Fire Flow Duration	2	hrs
					Fire Volume	-	gals
Firm Capacity (gpm)	80	Firm Capacity (gpm)	140				
Max Day (gpm)	25	Peak Flow (gpm)	49.3		Total	8,872	gals
Fire Flow (gpm)	-						
Adjusted Max Day	25						
Used and Useful	30.80%	Used and Useful	35.20%		Used and Useful	49.29%	

Notes

1. from MFRs Document 10989-06
2. from MFRs Document 10989-06
3. From MFRs
4. from MFRs Document 10989-06
5. from MFRs Document 937-07

Picciola Island

Average Day Flow (gpd)		31,395	
Maximum Day Flow (gpd)		64,700	1
Calculated Peak Flow (gpd)		129,400	
Peak Factor		2	
Average Day Flow (gpm)		22	
Maximum Day Flow (gpm)		45	
Calculated Peak Flow (gpm)		90	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	10.3%	2	
Excess	0.3%		
UAW Adjustment (gpm)		0.1	
Adjusted Flows			
Maximum Day Flow (gpm)		44.9	
Calculated Peak Hour Flow (gpd)		89.7	
GROWTH ADJUSTMENT			
An. ERC Growth		0.46%	3
Period		7	
Growth Factor		1.03	
Adjusted Flows			
Maximum Day Flow (gpm)		46	
Calculated Peak Hour Flow (gpd)		93	
Required Fire Flow (gpm)		-	4
Wells			
	175 gpm		5
	100 gpm		5
Total	275		
Firm	100		
Treatment Used and Useful			
Firm Capacity (gpm)		100	
Peak Flow (gpm)		93	
Used and Useful		92.62%	

Notes

1. from MFRs Document 10960-06
2. from MFRs Document 1218-07
3. MFRs show 0.46%
4. from MFRs Document 10960-06
5. from MFRs Document 937-07

Pomona Park

Average Day Flow (gpd)		35,433	
Maximum Day Flow (gpd)		57,930	1
Calculated Peak Flow (gpd)		115,860	
Peak Factor		2	
Average Day Flow (gpm)		25	
Maximum Day Flow (gpm)		40	
Calculated Peak Flow (gpm)		80	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	6.7%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		40.2	
Calculated Peak Hour Flow (gpd)		80.5	
GROWTH ADJUSTMENT			
An. ERC Growth		5.00%	3
Period		7	
Growth Factor		1.35	
Adjusted Flows			
Maximum Day Flow (gpm)		54	
Calculated Peak Hour Flow (gpd)		109	
Required Fire Flow (gpm)		-	4

Wells

	60 gpm
	35 gpm
Total	95
Firm	35

Treatment Used and Useful

Firm Capacity (gpm)	35
Peak Flow (gpm)	109
Used and Useful	100.00%

Notes

1. from MFRs Document 10990-06
2. from MFRs Document 10990-06
3. MFRs show 6.16%
4. from MFRs Document 10990-06

Piney Woods

Average Day Flow (gpd)	46,312	
Maximum Day Flow (gpd)	78,200	1
Calculated Peak Flow (gpd)	156,400	
Peak Factor	2	
Average Day Flow (gpm)	32	
Maximum Day Flow (gpm)	54	
Calculated Peak Flow (gpm)	109	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	6.6%	2
Excess	0.0%	
UAW Adjustment (gpm)	-	-
Adjusted Flows		
Maximum Day Flow (gpm)	54.3	
Calculated Peak Hour Flow (gpd)	108.6	
GROWTH ADJUSTMENT		
An. ERC Growth	0.28%	3
Period	7	
Growth Factor	1.02	
Adjusted Flows		
Maximum Day Flow (gpm)	55	
Calculated Peak Hour Flow (gpd)	111	
Required Fire Flow (gpm)	-	4

Wells			**HSPs**		**Storage**		
					Volume	50,000	gals
	300 gpm	5	300	5	Adjust	0.9	
	gpm				Usable Volume	45,000	gals
	gpm						
	gpm				Max Day (gal)	79,733	gals
Total	300		300		Factor	0.25	
Firm	300		300		Max Day Allowance	19,933	gals
					Fire Flow	-	gpm
					Fire Flow Duration	2	hrs
					Fire Volume	-	gals
Treatment Used and Useful							
Firm Capacity (gpm)	300		Firm Capacity (gpm)	300			
Max Day (gpm)	55		Peak Flow (gpm)	110.7	Total	19,933	gals
Fire Flow (gpm)							
Adjusted Max Day	55						
Used and Useful	18.46%		Used and Useful	36.91%	Used and Useful	44.30%	

Notes

1. MFRs use 80,000 max day on May 30 instead of 94,000
1. Used average of 5 highest days in the max month of May
2. from MFRs Document 10962-06
3. from MFRs
4. from MFRs Document 10962-06
5. from MFRs Document 937-07

Quail Ridge

Average Day Flow (gpd)		15,413	
Maximum Day Flow (gpd)		36,000	2
Calculated Peak Flow (gpd)		72,000	
Peak Factor		2	
Average Day Flow (gpm)		11	
Maximum Day Flow (gpm)		25	
Calculated Peak Flow (gpm)		50	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	2.9%	3	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		25.0	
Calculated Peak Hour Flow (gpd)		50.0	
GROWTH ADJUSTMENT			
An. ERC Growth		5%	4
Period		7	
Growth Factor		1.35	
Adjusted Flows			
Maximum Day Flow (gpm)		34	
Calculated Peak Hour Flow (gpd)		68	
Required Fire Flow (gpm)		500	5
Wells			
	650 gpm		5
	gpm		
Total	650		
Firm	650		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		650	
Peak Flow (gpm)		68	
Used and Useful		10.38%	
Test 2			
Firm Capacity (gpm)		650	
Max Day (gpm)		34	
Fire Flow (gpm)		500	
Peak Flow (gpm)		534	
Used and Useful		82%	

Notes

1. System maps show the system can provide fire flow
2. from MFRs Document 937-07
3. from MFRs Document 10967-06
4. MFRs show 14.10%
5. from MFRs Document 937-07

Ravenswood

Average Day Flow (gpd)		11,118	
Maximum Day Flow (gpd)		27,300	1
Calculated Peak Flow (gpd)		54,600	
Peak Factor		2	
Average Day Flow (gpm)		8	
Maximum Day Flow (gpm)		19	
Calculated Peak Flow (gpm)		38	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	5.0%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		19.0	
Calculated Peak Hour Flow (gpm)		37.9	
GROWTH ADJUSTMENT			
An. ERC Growth		2.12%	3
Period		7	
Growth Factor		1.15	
Adjusted Flows			
Maximum Day Flow (gpm)		22	
Calculated Peak Hour Flow (gpd)		44	
Required Fire Flow (gpm)		-	4
Wells			
	90 gpm		5
	gpm		
Total	90		
Firm	90		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		90	
Peak Flow (gpm)		44	
Used and Useful		48.38%	

Notes

1. from MFRs Document10968-06
2. from MFRs Document10968-06
3. From MFRs
4. from MFRs Document10968-06
5. from field inspection; no data given in MFRs

River Grove

Average Day Flow (gpd)		19,545	
Maximum Day Flow (gpd)		51,140	1
Calculated Peak Hour Flow (gpd)		102,280	
Peak Factor		2	
Average Day Flow (gpm)		14	
Maximum Day Flow (gpm)		36	
Calculated Peak Hour Flow (gpm)		71	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	7.2%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		35.5	
Calculated Peak Hour Flow (gpd)		71.0	
GROWTH ADJUSTMENT			
An. ERC Growth	0.12%		3
Period		7	
Growth Factor		1.01	
Adjusted Flows			
Maximum Day Flow (gpm)		36	
Calculated Peak Hour Flow (gpd)		72	
Required Fire Flow (gpm)		-	4

Wells				**HSPs**		**Storage**		
						Volume	18,000	gals
	125	gpm	5	170	5	Adjust	0.9	
		gpm		170	5	Usable Volume	16,200	gals
		gpm						
		gpm				Max Day (gal)	51,570	gals
Total	125			340		Factor	0.25	
Firm	125			170		Max Day Allowance	12,892	gals
						Fire Flow	-	gpm
						Fire Flow Duration	2	hrs
						Fire Volume	-	gals
Treatment Used and Useful								
Firm Capacity (gpm)		125	Firm Capacity (gpm)	170		Total	12,892	gals
Max Day (gpm)		36	Peak Flow (gpm)	71.6				
Fire Flow (gpm)		-						
Adjusted Max Day		36						
Used and Useful		28.65%	Used and Useful	42.13%		Used and Useful	79.58%	

Notes

1. MFRs use 51,400 for max day which is wrong should be 51,140
1. different from MFRs Document 10991-06
2. from MFRs Document 10991-06
3. MFRs show 0.12% but indicate service area is builtout
4. from MFRs Document 10991-06
5. from MFRs Document 1217-07

Rosalie Oaks

Average Day Flow (gpd)		8,253	
Maximum Day Flow (gpd)		20,000	1
Calculated Peak Flow (gpd)		40,000	
Peak Factor		2	
Average Day Flow (gpm)		6	
Maximum Day Flow (gpm)		14	
Calculated Peak Flow (gpm)		28	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	9.4%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		13.9	
Calculated Peak Hour Flow (gpd)		27.8	
GROWTH ADJUSTMENT			
An. ERC Growth		1.37%	3
Period		7	
Growth Factor		1.10	
Adjusted Flows			
Maximum Day Flow (gpm)		15	
Calculated Peak Hour Flow (gpd)		30	
Required Fire Flow (gpm)		-	4
Wells			
	250 gpm		5
	gpm		
Total	250		
Firm	250		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		250	
Peak Flow (gpm)		30	
Used and Useful		12.18%	

Notes

1. from MFRs Document 10984-06
2. from MFRs Document 1218-07
3. From MFRs
4. from MFRs Document 10984-06
5. from MFRs Document 1217-07

Sebring Lakes

Average Day Flow (gpd)	105,993	
Maximum Day Flow (gpd)	316,200	1
Calculated Peak Hour Flow (gpd)	632,400	
Peak Factor	2	
Average Day Flow (gpm)	74	
Maximum Day Flow (gpm)	220	
Calculated Peak Hour Flow (gpm)	439	
Peak Factor	2	

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	6.1%	2
Excess	0.0%	

UAW Adjustment (gpm) -

Adjusted Flows	
Maximum Day Flow (gpm)	219.6
Calculated Peak Hour Flow (gpd)	439.2

GROWTH ADJUSTMENT

An. ERC Growth	5%	
Period	7	
Growth Factor	1.32	

Growth Analysis

2005 ERCs Sebring I	172	3
2005 ERCs Lakke Jo:	25	3
Annual ERC growth :	5.00%	3
Annual ERC growth]	1.34%	3
Weighted growth	4.54%	

Adjusted Flows	
Maximum Day Flow (gpm)	289
Calculated Peak Hour Flow (gpd)	579

Required Fire Flow (gpm) - 4

Wells			**HSPs**		**Storage**		
					Volume	73,000 gals	5
	830 gpm	5	600	5	Adjust	0.9	
	830 gpm	5	300	5	Usable Volume	65,700 gals	
	400 gpm	5	310	6			
	400 gpm	5	310	6	Max Day (gal)	416,589 gals	
Total	2460		1520		Factor	0.25	
Firm	1630		920		Max Day Allowance	104,147 gals	
					Fire Flow	- gpm	
					Fire Flow Duration	2 hrs	
					Fire Volume	- gals	

Treatment Used and Useful

Firm Capacity (gpm)	1,630	Firm Capacity (gpm)	920	
Max Day (gpm)	289	Peak Flow (gpm)	578.6	Total 104,147 gals
Fire Flow (gpm)	-			
Adjusted Max Day	289			
Used and Useful	17.75%	Used and Useful	62.89%	Used and Useful 100.00%

Notes

1. From MOR Analysis used average of 5 highest days in the max month of October
2. UAW not over 10% for both systems
3. From MFRs F-9
4. from MFRs Document 10946-06
5. from MFRs
6. Calculated from 20 hp motor at 70 psi w/ 90% motor eff and 70% pump eff

Sebring Lakes

Average Day Flow (gpd)	105,993	
Maximum Day Flow (gpd)	434,300	1
Calculated Peak Hour Flow (gpd)	868,600	
Peak Factor	2	
Average Day Flow (gpm)	74	
Maximum Day Flow (gpm)	302	
Calculated Peak Hour Flow (gpm)	603	
Peak Factor	2	

UNACCOUNTED FOR WATER ADJUSTMENT

UAW	6.1%	2
Excess	0.0%	

UAW Adjustment (gpm)	-	
Adjusted Flows		
Maximum Day Flow (gpm)	301.6	
Calculated Peak Hour Flow (gpd)	603.2	

GROWTH ADJUSTMENT

An. ERC Growth	5%	3
Period	7	
Growth Factor	1.35	

Adjusted Flows		
Maximum Day Flow (gpm)	407	
Calculated Peak Hour Flow (gpd)	814	
Required Fire Flow (gpm)	-	4

Wells			**HSPs**
	830 gpm		
	830 gpm		
	gpm		
	gpm		
Total	1660	5	0
Firm	830		0

Storage

Volume	25,000	gals
Adjust	0.9	
Usable Volume	22,500	gals
Max Day (gal)	586,305	gals
Factor	0.25	
Max Day Allowance	146,576	gals
Fire Flow	-	gpm
Fire Flow Duration	2	hrs
Fire Volume	-	gals
Total	*146,576*	*gals*

Treatment Used and Useful

Firm Capacity (gpm)	830	Firm Capacity (gpm)	-	
Max Day (gpm)	407	Peak Flow (gpm)	814.3	
Fire Flow (gpm)	-			
Adjusted Max Day	407			
Used and Useful	49.05%	Used and Useful	#DIV/0!	Used and Useful 651.45%

Notes

1. MFRs use 434,300 on Dec 4 for max day
1. from MFRs Document 10946-06*
2. from *MFRs Document 1218-07*
3. MFRs show 29.19%
4. from MFRs Document 10946-06
5. from MFRs

Lake Josephine

Average Day Flow (gpd)	38,845	
Maximum Day Flow (gpd)	278,000	1
Calculated Peak Hour Flow (gpd)	556,000	
Peak Factor	2	
Average Day Flow (gpm)	27	
Maximum Day Flow (gpm)	193	
Calculated Peak Hour Flow (gpm)	386	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	6.05%	2
Excess	-	
UAW Adjustment (gpm)	-	
Adjusted Flows		
Maximum Day Flow (gpm)	193.1	
Calculated Peak Hour Flow (gpd)	386.1	
GROWTH ADJUSTMENT		
An. ERC Growth	1.34%	3
Period	7	
Growth Factor	1.09	
Adjusted Flows		
Maximum Day Flow (gpm)	211	
Calculated Peak Hour Flow (gpd)	422	
Required Fire Flow (gpm)		4

Wells			**HSPs**		**Storage**	
					Volume	48,000 gals
	400 gpm	5	600	5	Adjust	0.9
	400 gpm	5	300	5	Usable Volume	43,200 gals
	gpm					
	gpm				Max Day (gal)	304,076 gals
Total	800		900		Factor	0.25
Firm	400		300		Max Day Allowance	76,019 gals
					Fire Flow	- gpm
Treatment Used and Useful					Fire Flow Duration	2 hrs
					Fire Volume	- gals
Firm Capacity (gpm)	400	Firm Capacity (gpm)	300			
Max Day (gpm)	211	Peak Flow (gpm)	422.3		Total	76,019 gals
Fire Flow (gpm)	-					
Adjusted Max Day	211					
Used and Useful	52.79%	Used and Useful	140.78%		Used and Useful	175.97%

Notes

1. MFRs used 278,000 gpd on July 23 for max day rather than 334,900.
1. From MFRs Document 10944-06*
2. From Sebring Lakes system
3. from MFRs
4. From MFRs Document 10944-06
5. From MFRs Document 937-07

Silver Lake Estates - Western Shores

Average Day Flow (gpd)	743,771	
Maximum Day Flow (gpd)	2,200,000	1
Calculated Peak Hour Flow (gpd)	4,400,000	
Peak Factor	2	
Average Day Flow (gpm)	517	
Maximum Day Flow (gpm)	1,528	
Calculated Peak Hour Flow (gpd)	3,056	
Peak Factor	2	
UNACCOUNTED FOR WATER ADJUSTMENT		
UAW	12.3%	2
Excess	2.3%	
UAW Adjustment (gpm)	11.9	
Adjusted Flows		
Maximum Day Flow (gpm)	1,516	
Calculated Peak Hour Flow (gpd)	3,032	
GROWTH ADJUSTMENT		
An. ERC Growth	0%	3
Period	7	
Growth Factor	1.00	
Adjusted Flows		
Maximum Day Flow (gpm)	1,516	
Calculated Peak Hour Flow (gpd)	3,032	
Required Fire Flow (gpm)	500	4

Wells

1425 gpm	5	
1425 gpm	5	
600 gpm	5	
gpm		
Total 3450		
Firm 2025		

Treatment Used and Useful

Firm Capacity (gpm)	2,025
Max Day (gpm)	1,516
Adjusted Max Day	1,516
Used and Useful	74.86%

HSPs

950	6	
950	6	
950	6	
350	6	
350	6	
3550		
2600		

Test 1

Firm Capacity (gpm)	2,600
Peak Hour Flow (gpm)	3,031.8
Used and Useful	100.00%

Test 2

Firm Capacity (gpm)	2,600
Max Day (gpm)	1,516
Fire Flow (gpm)	750
Peak Flow	2,266
Used and Useful	87%

Storage

Volume	65,000	gals
Adjust	0.9	
Usable Volume	58,500	gals
Max Day (gal)	2,182,893	gals
Factor	0.25	
Max Day Volume	545,723	gals
Fire Flow	500	gpm
Fire Flow Duration	2	hrs
Fire Volume	60,000	gals
Total	605,723	gals
Used and Useful	100.00%	

Notes

1. from MFRs Document 10970-06
2. from MFRs Document 10970-06
3. MFRs show -1.61%
4. from MFRs Document 10970-06
5. from San Survey, totals match MFR Doc. 1217-07
6. from San Survey matches field data, differs slightly from MFR
7. from MFR Document 1217-07

Silver Lake Oaks

Average Day Flow (gpd)		5,009	
Maximum Day Flow (gpd)		16,000	1
Calculated Peak Hour Flow (gpd)		32,000	
Peak Factor		2	
Average Day Flow (gpm)		3	
Maximum Day Flow (gpm)		11	
Calculated Peak Hour Flow (gpm)		22	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	2.7%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		11.1	
Calculated Peak Hour Flow (gpd)		22.2	
GROWTH ADJUSTMENT			
An. ERC Growth		0.69%	3
Period		7	
Growth Factor		1.05	
Adjusted Flows			
Maximum Day Flow (gpm)		12	
Calculated Peak Hour Flow (gpd)		23	
Required Fire Flow (gpm)		-	4

Wells			**HSPs**		**Storage**		
					Volume	12,000	gals
	75 gpm	5	20	5	Adjust	0.9	
	gpm		20	5	Usable Volume	10,800	gals
	gpm						
	gpm				Max Day (gal)	16,773	gals
Total	75		40		Factor	0.25	
Firm	75		20		Max Day Allowance	4,193	gals
					Fire Flow	-	gpm
Treatment Used and Useful					Fire Flow Duration	2	hrs
					Fire Volume	-	gals
Firm Capacity (gpm)	75	Firm Capacity (gpm)	20				
Max Day (gpm)	12	Peak Flow (gpm)	23.3		Total	4,193	gals
Fire Flow (gpm)	-						
Adjusted Max Day	12						
Used and Useful	15.53%	Used and Useful	100.00%		Used and Useful	38.83%	

Notes

1. from MFRs Document 10993-06
2. from MFRs Document 10993-06
3. MFRs show 0.69% but indicate service area is builtout
4. from MFRs Document 10993-06
5. from MFRs Document 937-07

Skycrest

Average Day Flow (gpd)		21,945	
Maximum Day Flow (gpd)		44,100	2
Calculated Peak Flow (gpd)		88,200	
Peak Factor		2	
Average Day Flow (gpm)		15	
Maximum Day Flow (gpm)		31	
Calculated Peak Flow (gpm)		61	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	9.2%	3	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		30.6	
Calculated Peak Hour Flow (gpd)		61.3	
GROWTH ADJUSTMENT			
An. ERC Growth		5.00%	4
Period		7	
Growth Factor		1.35	
Adjusted Flows			
Maximum Day Flow (gpm)		41	
Calculated Peak Hour Flow (gpd)		83	
Required Fire Flow (gpm)		500	5
Wells			
	500 gpm	6	
	175 gpm	6	
Total	675		
Firm	175		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)	175		
Peak Flow (gpm)	83		
Used and Useful	47.25%		
Test 2			
Firm Capacity (gpm)	175		
Max Day (gpm)	41		
Fire Flow (gpm)	500		
Peak Flow (gpm)	541		
Used and Useful	100%		

Notes

1. The system maps show no fire hydrant or sufficienly sized lines to provide fire flow
2. from MFRs Document 10969-06
3. from MFRs Document 10969-06
4. MFRs show 5.74% but indicate service area is built out
5. from MFRs Document 10969-06
6. from MFRs Document 937-07

Stone Mountain

Average Day Flow (gpd)		2,140	
Maximum Day Flow (gpd)		6,600	1
Calculated Peak Flow (gpd)		13,200	
Peak Factor		2	
Average Day Flow (gpm)		1	
Maximum Day Flow (gpm)		5	
Calculated Peak Flow (gpm)		9	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	30.8%	2	
Excess	20.8%		
UAW Adjustment (gpm)		0.3	-
Adjusted Flows			
Maximum Day Flow (gpm)		4.3	
Calculated Peak Hour Flow (gpd)		8.5	
GROWTH ADJUSTMENT			
An. ERC Growth		1.36%	3
Period		7	
Growth Factor		1.10	
Adjusted Flows			
Maximum Day Flow (gpm)		5	
Calculated Peak Hour Flow (gpd)		9	
Required Fire Flow (gpm)		-	4
Wells			
100 gpm		5	
gpm			
Total	100		
Firm	100		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)	100		
Peak Flow (gpm)	9		
Used and Useful	9.36%		

Notes

1. from MFRs Document 10971
2. from MFRs Document 1218-07
3. MFRs show 1.36% but indicate service area is built out
4. from MFRs Document 10971
5. from MFRs Document 1217-07

Summit Chase

Average Day Flow (gpd)		29,973	
Maximum Day Flow (gpd)		72,400	2
Calculated Peak Flow (gpd)		144,800	
Peak Factor		2	
Average Day Flow (gpm)		21	
Maximum Day Flow (gpm)		50	
Calculated Peak Flow (gpm)		101	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	5.5%		3
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		50.3	
Calculated Peak Hour Flow (gpm)		100.6	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	4
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		50	
Calculated Peak Hour Flow (gpd)		101	
Required Fire Flow (gpm)		500	5
Wells			
	525 gpm		6
	100 gpm		6
Total	625		
Firm	100		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		100	
Peak Flow (gpm)		101	
Used and Useful		100.00%	
Test 2			
Firm Capacity (gpm)		100	
Max Day (gpm)		50	
Fire Flow (gpm)		500	
Peak Flow (gpm)		550	
Used and Useful		100%	

Notes

1. Maps show the system has the hydrants and lines sizes to provide fire flow
2. from MFRs Documents 10958-06
3. from MFRs Documents 10958-06
4. MFRs show 10.31% but indicate the service area is builtout
5. from MFRs Documents 10958-06
6. Used data from on site O&M Manual

Sunny Hills Combined

Average Day Flow (gpd)		180,685	
Maximum Day Flow (gpd)		400,500	1
Calculated Peak Hour Flow (gpd)		801,000	
Peak Factor		2	
Average Day Flow (gpm)		125	
Maximum Day Flow (gpm)		278	
Calculated Peak Hour Flow (gpm)		556	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	43.0%	2	
Excess	33.0%		
UAW Adjustment (gpm)		41.4	
Adjusted Flows			
Maximum Day Flow (gpm)		236.7	
Calculated Peak Hour Flow (gpd)		473.4	
GROWTH ADJUSTMENT			
An. ERC Growth		3.78%	3
Period		7	
Growth Factor		1.26	
Adjusted Flows			
Maximum Day Flow (gpm)		299	
Calculated Peak Hour Flow (gpd)		599	
Required Fire Flow (gpm)		700	4

Wells			**HSPs**		**Storage**		
					Volume	70,000	gals
	517 gpm	5	200	5	Adjust	0.9	
	510 gpm	5	300	5	Usable Volume	63,000	gals
	200 gpm	6	510	7			
	gpm		200	8	Max Day (gal)	431,069	gals
Total	1227		1210		Factor	0.25	
Firm	710		700		Max Day Allowance	107,767	gals
					Fire Flow	-	gpm
					Fire Flow Duration	2	hrs
					Fire Volume	-	gals
Treatment Used and Useful			**Test 1**				
Firm Capacity (gpm)	710		Firm Capacity (gpm)	700			
Max Day (gpm)	299		Peak Flow (gpm)	598.7	**Total**	107,767	gals
Fire Flow (gpm)	-						
Adjusted Max Day	299						
Used and Useful	42.16%		Used and Useful	85.53%	Used and Useful	100.00%	
			Test 2				
			Firm Capacity (gpm)	700			
			Max Day (gpm)	299			
			Fire Flow (gpm)	700			
			Peak Flow	999			
			Used and Useful	100%			

Notes

1. Used data for WTP no 4. WTP no 1 is out of service. This agrees with MFRs
1. from MFRs document 937-07
2. from MFRs Document 1218-07
3. from MFRs
4. from MFRs document 937-07
5. from MFRs document 937-07
6. from sanitary survey
7. Well at WTP 4 also acts as high service
8. Well at WTP 5 also acts as high service
9. The system maps do not show sufficient hydrants to provide fire protection

Sunny Hills 1 and 4

Average Day Flow (gpd)		163,841	
Maximum Day Flow (gpd)		400,000	1
Calculated Peak Hour Flow (gpd)		800,000	
Peak Factor		2	
Average Day Flow (gpm)		114	
Maximum Day Flow (gpm)		278	
Calculated Peak Hour Flow (gpm)		556	
Peak Factor		2	
Unaccounted for Water Adjustment			
UAW	43.0%	2	
Excess	33.0%		
Adjustment (gpm)		37.5	
Adjusted Flows			
Maximum Day Flow (gpm)		240.2	
Calculated Peak Hour Flow (gpm)		480.5	
Required Fire Flow (gpm)		700	3

Wells			**HSPs**		**Storage**		
					Volume	70,000	gals
	517 gpm	4	200	4	Adjust	0.9	
	510 gpm	4	300	4	Usable Volume	63,000	gals
	gpm		510	5			
	gpm				Max Day (gal)	400,000	gals
Total	1027		1010		Factor	0.25	
Firm	510		500		Max Day Allowance	100,000	gals
					Fire Flow	-	gpm
Treatment Used and Useful					Fire Flow Duration	2	hrs
			Test 1		Fire Volume	-	gals
Firm Capacity (gpm)	*510*		*Firm Capacity (gpm)*	500			
Max Day (gpm)	240		Peak Flow (gpm)	480.5	Total	100,000	gals
Fire Flow (gpm)	-						
Adjusted Max Day	240						
Used and Useful	47.10%		Used and Useful	96.09%	Used and Useful	158.73%	
			Test 2				
			Firm Capacity (gpm)	500			
			Max Day (gpm)	240			
			Fire Flow (gpm)	700			
			Peak Flow	940			
			Used and Useful	188%			

Notes

1. Used data for WTP no 4. WTP no 1 is out of service. This agrees with MFRs
1. from MFRs document 937-07
2. from MFRs Document 1218-07
3. from MFRs document 937-07
4. from MFRs document 937-07
5 Well at WTP 4 also acts as high service
6. The system maps do not show sufficient hydrants to provide fire protection

Sunny Hills 5

Average Day Flow (gpd)		2,087	
Maximum Day Flow (gpd)		10,000	1
Calculated Peak Flow (gpd)		20,000	
Peak Factor		2	
Average Day Flow (gpm)		1	
Maximum Day Flow (gpm)		7	
Calculated Peak Flow (gpm)		14	
Peak Factor		2	
Unaacounted for Water Adjustment			
UAW	43.0%	2	
Excess	33.0%		
Adjustment (gpm)		0.5	-
Adjusted Flows			
Maximum Day Flow (gpm)		6.5	
Calculated Peak Flow (gpm)		12.9	
Required Fire Flow (gpm)		700	3

Wells

200	gpm	from Sanitary Sruvey
	gpm	
Total 200		
Firm 200		

Treatment Used and Useful

Test 1	
Firm Capacity (gpm)	200
Peak Flow (gpm)	13
Used and Useful	6.47%

Test 2	
Firm Capacity (gpm)	200
Max Day (gpm)	6
Fire Flow (gpm)	700
Peak Flow (gpm)	706
Used and Useful	353%

Notes
1. from MOR analysis; MFRs are combined for all wells
2. from MFRs Document 1218-07
3. from MFRs document 937-07
4. from Sanitary Sruvey

Tangerine

Average Day Flow (gpd)		118,834	
Maximum Day Flow (gpd)		326,600	2
Calculated Peak Flow (gpd)		653,200	
Peak Factor		2	
Average Day Flow (gpm)		83	
Maximum Day Flow (gpm)		227	
Calculated Peak Flow (gpm)		454	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	22.3%	3	
Excess	12.3%		
UAW Adjustment (gpm)		10.2	
Adjusted Flows			
Maximum Day Flow (gpm)		216.7	
Calculated Peak Hour Flow (gpm)		433.3	
GROWTH ADJUSTMENT			
An. ERC Growth		0.72%	4
Period		7	
Growth Factor		1.05	
Adjusted Flows			
Maximum Day Flow (gpm)		228	
Calculated Peak Hour Flow (gpd)		455	
Required Fire Flow (gpm)		500	5
Wells			
	250 gpm	6	
	250 gpm	6	
Total	500		
Firm	250		

Treatment Used and Useful	
Test 1	
Firm Capacity (gpm)	250
Peak Flow (gpm)	455
Used and Useful	100.00%
Test 2	
Firm Capacity (gpm)	250
Max Day (gpm)	228
Fire Flow (gpm)	500
Peak Flow (gpm)	728
Used and Useful	100%

Notes
1. Maps show the system can only provide partial coverage with limited hydrants and piping
1. Used average of 5 highest days in the max month of Sep
2. From MFRs Document 10976-06*
3. from MFRs Document 1218-07
4. From MFRs
5. From MFRs Document 10976-06
6. From MFRs Document 1217-07

Tomoka-Twin Rivers

System	Connections	Used and Useful	Weighting Factor
Tomoka			
Wells	196	29.34%	57.51
Storage	196	100.00%	196.00
HSP	196	75.23%	147.45
Twin Rivers			
Wells	77	28.66%	22.07
Storage	77	100.00%	77.00
HSP	77	100.00%	77.00
Total	**273**		
Averaged Used and Useful			
Wells			29.15%
Storage			100.00%
HSP			82.22%

Tomoka

Average Day Flow (gpd)		44,209	
Maximum Day Flow (gpd)		84,500	1
Calculated Peak Hour Flow (gpd)		169,000	
Peak Factor		2	
Average Day Flow (gpm)		31	
Maximum Day Flow (gpm)		59	
Calculated Peak Hour Flow (gpm)		117	
Peak Factor		2	
Unaccounted for Water Adjustment			
UAW	-8.5%	2	
Excess	0.0%		
Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		58.7	
Calculated Peak Hour Flow (gpm)		117.4	
Required Fire Flow (gpm)		-	3

Wells			**HSPs**		**Storage**		
					Volume	15,000	gals
	343 gpm		78	6	Adjust	0.9	
	200 gpm	from MFRs	78	6	Usable Volume	13,500	gals
	gpm		78	6			
	gpm				Max Day (gal)	84,500	gals
Total	543		234		Factor	0.25	
Firm	200		156		Max Day Allowance	21,125	gals
					Fire Flow	-	gpm
Treatment Used and Useful					Fire Flow Duration	2	hrs
			Test 1		Fire Volume	-	gals
Firm Capacity (gpm)	200		Firm Capacity (gpm)	156			
Max Day (gpm)	59		Peak Flow (gpm)	117.4	Total	21,125	gals
Fire Flow (gpm)	-						
Adjusted Max Day	59						
Used and Useful	29.34%		Used and Useful	75.23%	Used and Useful	100.00%	

Notes

1. from MOR analysis; MFRs combine Twin Rivers with Tomoka
2. from MFRs Document 11001-06
3. from MFRs Document 11001-06
4. from MFRs
5. field survey

6 Calculated based on a 5 hp motor at 70 psi with a 70% pump eff and 90% motor eff

Twin Rivers

Average Day Flow (gpd)		28,388	
Maximum Day Flow (gpd)		110,600	1
Calculated Peak Hour Flow (gpd)		221,200	
Peak Factor		2	
Average Day Flow (gpm)		20	
Maximum Day Flow (gpm)		77	
Calculated Peak Hour Flow (gpm)		154	
Peak Factor		2	
Unaacounted for Water Adjustment			
UAW	-8.5%	2	
Excess	0.0%		
Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		76.8	
Calculated Peak Hour Flow (gpm)		153.6	
Required Fire Flow (gpm)		-	3

Wells			**HSPs**		**Storage**		
	268 gpm	4	78	6	Volume	15,000	gals
	gpm		78	6	Adjust	0.9	
	gpm				Usable Volume	13,500	gals
	gpm						
Total	268		156		Max Day (gal)	110,600	gals
Firm	268		78		Factor	0.25	
					Max Day Allowance	27,650	gals
					Fire Flow	-	gpm
					Fire Flow Duration	2	hrs
Treatment Used and Useful			**Test 1**		Fire Volume	-	gals
Firm Capacity (gpm)	268		Firm Capacity (gpm)	78			
Max Day (gpm)	77		Peak Flow (gpm)	153.6	Total	27,650	gals
Fire Flow (gpm)	-						
Adjusted Max Day	77						
Used and Useful	28.66%		Used and Useful	100.00%	Used and Useful	100.00%	

Notes

1. from MOR analysis; MFRs combine Twin Rivers with Tomoka
2. from MFRs Document 11001-06
3. from MFRs Document 11001-06
4. from MFRs
5. field survey
6 Calculated based on a 5 hp motor at 70 psi with a 70% pump eff and 90% motor ef.

Valencia Terrace

Average Day Flow (gpd)		69,180	
Maximum Day Flow (gpd)		127,300	2
Calculated Peak Flow (gpd)		254,600	
Peak Factor		2	
Average Day Flow (gpm)		48	
Maximum Day Flow (gpm)		88	
Calculated Peak Flow (gpm)		177	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	9.7%	3	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		88.4	
Calculated Peak Hour Flow (gpd)		176.8	
GROWTH ADJUSTMENT			
An. ERC Growth		0.95%	4
Period		7	
Growth Factor		1.07	
Adjusted Flows			
Maximum Day Flow (gpm)		94	
Calculated Peak Hour Flow (gpd)		189	
Required Fire Flow (gpm)		500	5
Wells			
	750 gpm		6
	250 gpm		6
Total	1000		
Firm	250		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)		250	
Peak Flow (gpm)		189	
Used and Useful	vp		
Test 2			
Firm Capacity (gpm)		250	
Max Day (gpm)		94	
Fire Flow (gpm)		500	
Peak Flow (gpm)		594	
Used and Useful		100%	

Notes

1. System mpas show sufficient hydrants and lines sizes to provide fire flow
2. From MFRs
3. from MFRs Document 10972-06
4. MFRs show 0.95% but indicate service area is built out
5. from MFRs Document 10972-06
6. from MFRs Document 937-07

Venetian Village

Average Day Flow (gpd)		31,526	
Maximum Day Flow (gpd)		64,400	1
Calculated Peak Flow (gpd)		128,800	
Peak Factor		2	
Average Day Flow (gpm)		22	
Maximum Day Flow (gpm)		45	
Calculated Peak Flow (gpm)		89	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	11.9%	2	
Excess	1.9%		
UAW Adjustment (gpm)		0.4	
Adjusted Flows			
Maximum Day Flow (gpm)		44.3	
Calculated Peak Hour Flow (gpd)		88.6	
GROWTH ADJUSTMENT			
An. ERC Growth		1.15%	3
Period		7	
Growth Factor		1.08	
Adjusted Flows			
Maximum Day Flow (gpm)		48	
Calculated Peak Hour Flow (gpd)		96	
Required Fire Flow (gpm)		-	4
Wells			
	240 gpm	4	
	100 gpm	4	
Total	340		
Firm	100		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)	100		
Peak Flow (gpm)	96		
Used and Useful	95.75%		

Notes

1. from MFRs Document 10973-06
2. from MFRs Document 1218-07
3. from MFRs
4. from MFRs Document 10973-06
5. from MFRs Document 937-07

Welaka - Saratoga Harbour

Average Day Flow (gpd)		20,325	
Maximum Day Flow (gpd)		66,396	1
Calculated Peak Hour Flow (gpd)		132,792	
Peak Factor		2	
Average Day Flow (gpm)		14	
Maximum Day Flow (gpm)		46	
Calculated Peak Hour Flow (gpm)		92	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	11.6%	2	
Excess	1.6%		
UAW Adjustment (gpm)		0.2	
Adjusted Flows			
Maximum Day Flow (gpm)		45.9	
Calculated Peak Hour Flow (gpd)		91.8	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		46	
Calculated Peak Hour Flow (gpd)		92	
Required Fire Flow (gpm)			4

Wells			**HSPs**	
186 gpm	5		186	7
110 gpm	6		140	8
110 gpm	6		140	8
gpm				
Total 406			466	
Firm 110	Only one Saratoga well with 2 pumps		280	

Storage

Volume	48,000	gals
Adjust	0.9	
Usable Volume	43,200	gals
Max Day (gal)	66,071	gals
Factor	0.25	
Max Day Allowance	16,518	gals
Fire Flow	-	gpm
Fire Flow Duration	2	hrs
Fire Volume	-	gals
Total	16,518	gals

Treatment Used and Useful

		Test 1		
Firm Capacity (gpm)	110	Firm Capacity (gpm)	280	
Max Day (gpm)	46	Peak Flow (gpm)	91.8	
Fire Flow (gpm)	-			
Adjusted Max Day	46			
Used and Useful	41.71%	Used and Useful	32.77%	Used and Useful 38.24%

Notes

1. MFRs use 45,900 on Sept 20 for max day instead of 71,340 from MORs
1. Used average of 5 highest days in the max month of Aug
2. from MFRs Document 1218-07
3. MFRs show -10.08%
4. from MFRs Document 10994-06
5. Welaka well from MFRs Doc 1217-07
6. Saratoga well pump from Sanitary Survey
7. Welaka well acts as high sevice
8. From Saratoga San Survey
9. from MFRs Document 1217-07

Wootens

Average Day Flow (gpd)		2,802	
Maximum Day Flow (gpd)		11,326	1
Calculated Peak Flow (gpd)		22,652	
Peak Factor		2	
Average Day Flow (gpm)		2	
Maximum Day Flow (gpm)		8	
Calculated Peak Hour Flow (gpm)		16	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	20.5%	2	
Excess	10.5%		
UAW Adjustment (gpm)		0.2	
Adjusted Flows			
Maximum Day Flow (gpm)		7.7	
Calculated Peak Hour Flow (gpd)		15.3	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		8	
Calculated Peak Hour Flow (gpd)		15	
Required Fire Flow (gpm)			4

Wells			**HSPs**		**Storage**		
					Volume	1,800 gals	5
	20 gpm	5	78	6	Adjust	0.9	
	gpm		78	6	Usable Volume	1,620 gals	
	gpm						
	gpm				Max Day (gal)	11,032 gals	
Total	20		156		Factor	0.25	
Firm	20		156		Max Day Allowance	2,758 gals	
					Fire Flow	- gpm	
Treatment Used and Useful					Fire Flow Duration	2 hrs	
			Test 1		Fire Volume	- gals	
Firm Capacity (gpm)	20		Firm Capacity (gpm)	156			
Max Day (gpm)	8		Peak Flow (gpm)	15.3	Total	2,758 gals	
Fire Flow (gpm)	-						
Adjusted Max Day	8						
Used and Useful	38.30%		Used and Useful	9.82%	Used and Useful	100.00%	

Notes

1. from MFRs Document 10995-06*
1. Used average of 5 highest days in the max month of Apr
2. from MFRs Document 1218-07
3. MFRs show 5.62% but indicate the service area is builtout
4. from MFRs Document 10995-06
5. from MFRs Document 1217-07
6. Calculated based on a 5 hp motor at 70 psi with 70% pump eff and 90% motor eff

The Woods

Average Day Flow (gpd)		4,578	
Maximum Day Flow (gpd)		13,200	1
Calculated Peak Flow (gpd)		26,400	
Peak Factor		2	
Average Day Flow (gpm)		3	
Maximum Day Flow (gpm)		9	
Calculated Peak Hour Flow (gpm)		18	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	-74.1%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	-
Adjusted Flows			
Maximum Day Flow (gpm)		9.2	
Calculated Peak Hour Flow (gpd)		18.3	
GROWTH ADJUSTMENT			
An. ERC Growth		0%	3
Period		7	
Growth Factor		1.00	
Adjusted Flows			
Maximum Day Flow (gpm)		9	
Calculated Peak Hour Flow (gpd)		18	
Required Fire Flow (gpm)		-	4

Wells			**HSPs**		**Storage**		
					Volume	2,500	gals
	100	gpm 5	102	6	Adjust	0.9	
		gpm	102	6	Usable Volume	2,250	gals
		gpm					
		gpm			Max Day (gal)	13,200	gals
Total	100		204		Factor	0.25	
Firm	100		102		Max Day Allowance	3,300	gals
					Fire Flow	-	gpm
					Fire Flow Duration	2	hrs
					Fire Volume	-	gals
Treatment Used and Useful			**Test 1**				
Firm Capacity (gpm)	100		Firm Capacity (gpm)	102			
Max Day (gpm)	9		Peak Flow (gpm)	18.3	Total	3,300	gals
Fire Flow (gpm)	-						
Adjusted Max Day	9						
Used and Useful	9.17%		Used and Useful	17.97%	Used and Useful	100.00%	

Notes

1. from Document 10990-06
2. from MFRs Document 1218-07
3. From MFRs
4. from MFRs Document 10990-06
5. from MFRs Document 937-07
6. from MFRs Document 937-07: 2 pumps at inspection

Zephyr Shores

Average Day Flow (gpd)		20,708	
Maximum Day Flow (gpd)		64,000	1
Calculated Peak Flow (gpd)		128,000	
Peak Factor		2	
Average Day Flow (gpm)		14	
Maximum Day Flow (gpm)		44	
Calculated Peak Flow (gpm)		89	
Peak Factor		2	
UNACCOUNTED FOR WATER ADJUSTMENT			
UAW	-15.0%	2	
Excess	0.0%		
UAW Adjustment (gpm)		-	
Adjusted Flows			
Maximum Day Flow (gpm)		44.4	
Calculated Peak Hour Flow (gpm)		88.9	
GROWTH ADJUSTMENT			
An. ERC Growth		0.65%	3
Period		7	
Growth Factor		1.05	
Adjusted Flows			
Maximum Day Flow (gpm)		46	
Calculated Peak Hour Flow (gpd)		93	
Required Fire Flow (gpm)		-	4
Wells			
	530 gpm	5	
	500 gpm	6	
Total	1030		
Firm	500		
Treatment Used and Useful			
Test 1			
Firm Capacity (gpm)	500		
Peak Flow (gpm)	93		
Used and Useful	18.59%		

Notes

1. MOR Analysis*
1. MFR data using max day of 156,000 gpd which is not in MORs
2. from MFRs Document 1218-07
3. from MFRs
4. From MFRs 10980-06
5. From MFRs Document 1217-07
6. From field inspection of new constructed well

EXHIBIT ATW-4

WASTEWATER USED AND USEFUL

Wastewater Treatment Used and Useful Summary

System	Adj Test Year Flow	Permitted Flow	U&U	Non U&U	Notes
Arredondo Farms	32,000	60,000	53.33%	46.67%	
Beecher's Point	NA	NA	0.00%	100.00%	Interconnected
Chuluota	128,250	400,000	32.06%	67.94%	
FL Central Commerce Park	53,000	95,000	55.79%	44.21%	
Holiday Haven	12,053	25,000	48.21%	51.79%	
Park Manor	3,657	15,000	24.38%	75.62%	
Kings Cove	42,000	55,000	76.36%	23.64%	
Jasmine Lakes	212,000	308,000	68.83%	31.17%	
Jungle Den	8,455	21,000	40.26%	59.74%	
Lake Gibson Estates	NA	NA	0.00%	100.00%	Interconnected
Leisure Lakes	19,497	50,000	38.99%	61.01%	
Morningveiw	5,000	20,000	25.00%	75.00%	
Palm Port	12,321	30,000	41.07%	58.93%	
PalmTerrace	114,000	130,000	87.69%	12.31%	
Rosalie Oaks	8,749	15,000	76.07%	23.93%	
Silver Lake Oaks	4,195	12,000	34.96%	65.04%	
South Seas	44,000	264,000	16.67%	83.33%	
Summit Chase	24,374	54,000	45.14%	54.86%	
Sunny Hills	18,000	50,000	36.33%	63.67%	
Valencia Terrace	35,000	80,000	43.75%	56.25%	
Venetian Village	17,651	36,000	49.03%	50.97%	
Village Water	23,705	75,000	31.61%	68.39%	
The Woods	7,042	15,000	46.95%	53.05%	
Zephyr Shores	NA	NA	0.00%	100.00%	Interconnected

Arredondo Farms

Flows			
Annual Avg. (gpd)	32,000	from DMR analysis	
Max. Month (gpd)	47,000	from DMR analysis	
Max. Three Mo.Avg (gpd)	43,000	from DMR analysis	
Infiltration/Inflow Adjustment			
Test Year Water Sold (gal)	16,105,309	from MFRs	
Test Year Water Sold (gpd)	44,124		
Return Factor	80%	Adjust Test Year Water Sold	
Water Returned to WW (gpd)	35,299	Test Year Water S	27,109,000 from MFRs
Test Year Wastewater AADF (gpd)	32,000	Test Year Avg W I	535.1
Difference	(3,299)	Test Year Avg WV	317.9
Percent I/I	0%	Ratio W/WW	0.59
Allowable I/I	10%	Adjusted Water So	16,105,309
Adjustment	0%		
Adjusted Flow	32,000		
Growth Adjustment			
Annual ERC Growth	0.00%	MFRs show -0.05%	
Period	7		
Growth Factor	1.00		
Adjusted Flow	32,000		
Permit			
Flow Basis	Annual Average		
Flow (gpd)	60,000	from MFR Doc. 10941-06	
Used and Useful	53.33%		

Notes Missing Nov 2005 DMR; Used data from MFR
MFRs show max month as 50,000 in Dec; does not agree with DMRs

Beechers Point

Interconnected

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	870,525	
Test Year Water Sold (gpd)	2,385	
Return Factor	80%	
Water Returned to WW (gpd)	1,908	
Test Year Wastewater AADF (gpd)	1,296	
Difference	(612)	
Percent I/I	0%	
Allowable I/I	10%	
Adjustment	0%	
Adjusted Flow	-	
Adjust Test Year Water Sold		
Test Year Water Sold (gal)	2,102,000	from MFRs
Test Year Avg W ERCs	99	
Test Year Avg WW ERCs	41	
Ratio W/WW	0.41	
Adjusted Water Sold	870,525	

Chuluota

Flows

Annual Avg. (gpd)	95,000	from DMR analysis
Max. Month (gpd)	115,000	from DMR analysis
Max. Three Mo.Avg (gpd)	107,000	from DMR analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	52,734,875	Adjust Test Year Water Sold	
Test Year Water Sold (gpd)	144,479	Test Year Water Sold (gal	127,402,000
Return Factor	80%	Test Year Avg W ERCs	1307
Water Returned to WW (gpd)	115,583	Test Year Avg WW ERCs	541
Test Year Wastewater AADF (gpd)	95,000	Ratio W/WW	0.41
Difference	(20,583)	Adjusted Water Sold	52,734,875
Percent I/I	0%		
Allowable I/I	10%		
Adjustment	0%		
Adjusted Flow	95,000		

Growth Adjustment

Annual ERC Growth	5.00%	MFRs show 36.08%
Period	7	
Growth Factor	1.35	
Adjusted Flow	128,250	

Permit

Flow Basis	Annual Average	
Flow (gpd)	400,000	from MFRs Doc. 10996-06

Used and Useful 32.06%

Notes

Florida Central Commerce Park

Flows		
Annual Avg. (gpd)	53,000	from DMR Analysis
Max. Month (gpd)	67,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	57,000	from DMR Analysis
Infiltration/Inflow Adjustment		
Test Year Water Sold (gpd)	-	
Test Year Water Sold (gpd)	-	
Return Factor	80%	
Water Returned to WW (gpd)	-	
Test Year Wastewater AADF (gpd)	53,000	
Difference	53,000	
Percent I/I	0%	
Allowable I/I	10%	
Adjustment	0%	
Adjusted Flow	53,000	
Growth Adjustment		
Annual ERC Growth	0.00%	MFRs show 1.72% but indicate the service area is built out
Period	7	
Growth Factor	1.00	
Adjusted Flow	53,000	
Permit		
Flow Basis	Annual Average	
Flow (gpd)	95,000	from MFRs Doc 10997-06
Used and Useful	55.79%	

Notes

Holiday Haven

Flows		
Annual Avg. (gpd)	15,000	from DMR Analysis
Max. Month (gpd)	25,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	22,000	from DMR Analysis
Infiltration/Inflow Adjustment		
Test Year Water Sold (gal)	4,815,000	
Test Year Water Sold (gpd)	13,192	
Return Factor	80%	
Water Returned to WW (gpd)	10,553	
Test Year Wastewater AADF (gpd)	15,000	
Difference	4,447	
Percent I/I	30%	
Allowable I/I	10%	
Adjustment	20%	
Adjusted Flow	12,053	
Growth Adjustment		
Annual ERC Growth	0.00%	MFRs show 0.86% but indicate service are is built out
Period	7	
Growth Factor	1.00	
Adjusted Flow	12,053	
Permit		
Flow Basis	Annual Average	
Flow (gpd)	25,000	from MFR Doc. 10953-06
Used and Useful	48.21%	

Notes

Interlachen Park Manor

Flows

Annual Avg. (gpd)	7,000	from DMR Analysis
Max. Month (gpd)	15,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	13,000	from DMR Analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	1,349,243	Adjust Test Year Water Sold
Test Year Water Sold (gpd)	3,697	Test Year Water Sold (gal)
Return Factor	80%	Test Year Avg W ERCs
Water Returned to WW (gpd)	2,957	Test Year Avg WW ERCs
Test Year Wastewater AADF (gpd)	7,000	Ratio W/WW
Difference	4,043	Adjusted Water Sold
Percent I/I	58%	
Allowable I/I	10%	
Adjustment	48%	
Adjusted Flow	3,657	

Growth Adjustment

Annual ERC Growth	0.00%	MFRs show -3.29%
Period	7	
Growth Factor	1.00	
Adjusted Flow	3,657	

Permit

Flow Basis	Annual Average	
Flow (gpd)	15,000	frrom MFR Doc. 10988-06

Used and Useful 24.38%

Notes

	12,349,000
	270
	29.5
	0.11
	1,349,243

Kings Cove

Flows

Annual Avg. (gpd)	42,000	from DMR Analysis
Max. Month (gpd)	51,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	50,000	from DMR Analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	28,075,000	from MFR
Test Year Water Sold (gpd)	76,918	
Return Factor	80%	
Water Returned to WW (gpd)	61,534	
Test Year Wastewater AADF (g	42,000	
Difference	(19,534)	
Percent I/I	0%	
Allowable I/I	10%	
Adjustment	0%	
Adjusted Flow	42,000	

Growth Adjustment

Annual ERC Growth	0.00%	MFRs show 0.7% but indicate service area is built out
Period	7	
Growth Factor	1.00	
Adjusted Flow	42,000	

Permit

Flow Basis	Annual Avg	
Flow (gpd)	55,000	from MFR Doc 10957-06

Used and Useful 76.36%

Notes

Jasmine Lakes

Flows

Annual Avg. (gpd)	212,000	from DMR Analysis
Max. Month (gpd)	248,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	229,000	from DMR Analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	90,837,000	from MFR
Test Year Water Sold (gpd)	248,868	
Return Factor	80%	
Water Returned to WW (gpd)	199,095	
Test Year Wastewater AADF (g	212,000	
Difference	12,905	
Percent I/I	6%	
Allowable I/I	10%	
Adjustment	0%	
Adjusted Flow	212,000	

Growth Adjustment

Annual ERC Growth	0.00%	MFRs show -0.38%
Period	7	
Growth Factor	1.00	
Adjusted Flow	212,000	

Permit	**Plant**	**Effluent Disposal**	
Flow Basis	Three Mo. Ann. Avg.	Ann. Avg	
Flow (gpd)	370,000	308,000	from permit
Used and Useful	61.89%	68.83%	

Notes

Missing Dec 2005 data; subbed from MFR
Permitted capacities differ from what is in MFR Doc. 10978-06

Jungle Den

Flows

Annual Avg. (gpd)	22,000	from DMR Analysis
Max. Month (gpd)	37,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	31,000	from DMR Analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gpd)	2,248,122	Adjust Test Year Water Sold	
Test Year Water Sold (gal)	6,159	Test Year Water Sold (gal)	1,908,000
Return Factor	80%	Test Year Avg W ERCs	115
Water Returned to WW (gpd)	4,927	Test Year Avg WW ERCs	135.5
Test Year Wastewater AADF (gpd)	22,000	Ratio W/WW	1.18
Difference	17,073	Adjusted Water Sold	2,248,122
Percent I/I	78%		
Allowable I/I	10%		
Adjustment	68%		
Adjusted Flow	7,127		

Growth Adjustment

Annual ERC Growth	2.66%	from MFRs
Period	7	
Growth Factor	1.19	
Adjusted Flow	8,455	

Permit

Flow Basis	Annual Avg	
Flow (gpd)	21,000	from MFR Doc 11000=06

Used and Useful 40.26%

Notes

Lake Gibson Estates

Interconnected

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	24,709,940	
Test Year Water Sold (gpd)	67,698	
Return Factor	80%	
Water Returned to WW (gpd)	54,159	
Test Year Wastewater AADF (gp	46,608	
Difference	(7,551)	
Percent I/I	0%	
Allowable I/I	10%	
Adjustment	0%	
Adjusted Flow	-	
Adjust Test Year Water Sold		
Test Year Water Sold (gal)	62,299,000	from MFRs
Test Year Avg W ERCs	832	
Test Year Avg WW ERCs	330	
Ratio W/WW	0.40	
Adjusted Water Sold	24,709,940	

Leisure Lakes

Flows

Annual Avg. (gpd)	23,000	from DMR Analysis
Max. Month (gpd)	29,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	26,000	from DMR Analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	6,802,000	from MFRs
Test Year Water Sold (gpd)	18,636	
Return Factor	80%	
Water Returned to WW (gpd)	14,908	
Test Year Wastewater AADF (gpd)	23,000	
Difference	8,092	
Percent I/I	35%	
Allowable I/I	10%	
Adjustment	25%	
Adjusted Flow	17,208	

Growth Adjustment

Annual ERC Growth	1.90%	from MFRs
Period	7	
Growth Factor	1.13	
Adjusted Flow	19,497	

Permit

Flow Basis	Annual Avg	
Flow (gpd)	50,000	from MFRs Doc 10945-06

Used and Useful 38.99%

Notes

Max month disagrees with MFRs

Morningview

Flows		
Annual Avg. (gpd)	5,000	from DMR Analysis
Max. Month (gpd)	6,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	5,000	from DMR Analysis
Infiltration/Inflow Adjustment		
Test Year Water Sold (gal)	2,178,000	from MFRs
Test Year Water Sold (gpd)	5,967	
Return Factor	80%	
Water Returned to WW (gpd)	4,774	
Test Year Wastewater AADF (gpd)	5,000	
Difference	226	
Percent I/I	5%	
Allowable I/I	10%	
Adjustment	0%	
Adjusted Flow	5,000	
Growth Adjustment		
Annual ERC Growth	0.00%	MFRs show -2.22%
Period	7	
Growth Factor	1.00	
Adjusted Flow	5,000	
Permit		
Flow Basis	Annual Avg	
Flow (gpd)	20,000	from MFRs Doc. 0937-07
Used and Useful	25.00%	

Notes

Palm Port

Flows

Annual Avg. (gpd)	14,000	from DMR Analysis
Max. Month (gpd)	16,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	15,000	from DMR Analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	4,890,000	from MFRs
Test Year Water Sold (gpd)	13,397	
Return Factor	80%	
Water Returned to WW (gpd)	10,718	
Test Year Wastewater AADF (	14,000	
Difference	3,282	
Percent I/I	23%	
Allowable I/I	10%	
Adjustment	13%	
Adjusted Flow	12,118	

Growth Adjustment

Annual ERC Growth	0.24%	from MFRs
Period	7	
Growth Factor	1.02	
Adjusted Flow	12,321	

Permit

Flow Basis	Annual avg	
Flow (gpd)	30,000	from permit; disagrees with MFRs

Used and Useful 41.07%

Notes

Missing Oct 2005 data; Replaced with data from MFR Doc.10989-06

Palm Terrace

Flows		
Annual Avg. (gpd)	114,000	from DMR Analysis
Max. Month (gpd)	165,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	132,000	from DMR Analysis
Infiltration/Inflow Adjustment		
Test Year Water Sold (gal)	61,234,000	from MFRs
Test Year Water Sold (gpd)	167,764	
Return Factor	80%	
Water Returned to WW (gpd)	134,212	
Test Year Wastewater AADF (g	114,000	
Difference	(20,212)	
Percent I/I	0%	
Allowable I/I	10%	
Adjustment	0%	
Adjusted Flow	114,000	
Growth Adjustment		
Annual ERC Growth	0.00%	MFRs show -.45%
Period	7	
Growth Factor	1.00	
Adjusted Flow	114,000	
Permit		
Flow Basis	Annual Avg	
Flow (gpd)	130,000	from MFRs Doc. 10979-06
Used and Useful	87.69%	

Notes

Rosalie Oaks

Flows

Annual Avg. (gpd)	23,000	from DMR Analysis
Max. Month (gpd)	39,000	from DMR Analysis; does not match MFR Doc 10984-06
Max. Three Mo.Avg (gpd)	30,000	from DMR Analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	2,723,000	from MFRs
Test Year Water Sold (gpd)	7,460	
Return Factor	80%	
Water Returned to WW (gpd)	5,968	
Test Year Wastewater AADF (	23,000	
Difference	17,032	
Percent I/I	74%	
Allowable I/I	10%	
Adjustment	64%	
Adjusted Flow	8,268	

Growth Adjustment

Annual ERC Growth	0.83%	from MFRs
Period	7	
Growth Factor	1.06	
Adjusted Flow	8,749	

Permit	**Plant**	**Effluent Disposal**	
Flow Basis	Three Month Avg.	Annual Avg	
Flow (gpd)	15,000	15,000	from MFR Doc. 10984-06
Used and Useful	76.07%	58.32%	

Notes

Silver Lake Oaks

Flows		
Annual Avg. (gpd)	5,000	from DMR Analysis
Max. Month (gpd)	9,000	from DMR Analysis
Max. Three Mo.Avg (gpd)	8,000	from DMR Analysis
Infiltration/Inflow Adjustment		
Test Year Water Sold (gal)	1,686,000	from MFRs
Test Year Water Sold (gpd)	4,619	
Return Factor	80%	
Water Returned to WW (gpd)	3,695	
Test Year Wastewater AADF (gpd)	5,000	
Difference	1,305	
Percent I/I	26%	
Allowable I/I	10%	
Adjustment	16%	
Adjusted Flow	4,195	
Growth Adjustment		
Annual ERC Growth	0.00%	MFRs show 1.04% but indicate service area is built out
Period	7	
Growth Factor	1.00	
Adjusted Flow	4,195	
Permit		
Flow Basis	Annual Avg	
Flow (gpd)	12,000	from permit; disagrees with MFR Doc 10993-06
Used and Useful	34.96%	

Notes

South Seas

Flows			
	Annual Avg. (gpd)	44,000	from DMR Analysis
	Max. Month (gpd)	60,000	from DMR Analysis
	Max. Three Mo.Avg (gpd)	56,000	from DMR Analysis
Infiltration/Inflow Adjustment			
	Test Year Water AADF	-	
	Return Factor	80%	
	Water Returned to WW	-	
	Test Year Wastewater AADF	44,000	
	Difference	44,000	
	Adjustment	0.00%	
	Adjusted Flow	44,000	
Growth Adjustment			
	Annual ERC Growth	0.00%	MFRs show -23.13%
	Period	7	
	Growth Factor	1.00	
	Adjusted Flow	44,000	
Permit			
	Flow Basis	Annual Avg	
	Flow (gpd)	264,000	from MFR Doc. 10974-06
Used and Useful		16.67%	

Notes

Summit Chase

Flows

Annual Avg. (gpd)	30,000	from DMR analysis
Max. Month (gpd)	32,000	from DMR analysis
Max. Three Mo.Avg (gpd)	31,000	from DMR analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	9,752,000	from MFRs
Test Year Water Sold (gpd)	26,718	
Return Factor	80%	
Water Returned to WW (gpd)	21,374	
Test Year Wastewater AADF (g	30,000	
Difference	8,626	
Percent I/I	29%	
Allowable I/I	10%	
Adjustment	19%	
Adjusted Flow	24,374	

Growth Adjustment

Annual ERC Growth	0.00%	MFRs show 0.4% but indicate service area is built out
Period	7	
Growth Factor	1.00	
Adjusted Flow	24,374	

Permit

Flow Basis	Annual Avg	
Flow (gpd)	54,000	fromMFR Doc.10958-06

Used and Useful 45.14%

Notes

Sunny Hills

Flows

Annual Avg. (gpd)	18,000	from DMR analysis
Max. Month (gpd)	20,000	from DMR analysis
Max. Three Mo.Avg (gpd)	20,000	from DMR analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	8,549,146
Test Year Water Sold (gpd)	23,422
Return Factor	80%
Water Returned to WW (gpd)	18,738
Test Year Wastewater AADF (;	18,000
Difference	(738)
Percent I/I	0%
Allowable I/I	10%
Adjustment	0%
Adjusted Flow	18,000

Adjust Test Year Water Sold	
Test Year Water Sold (gal)	26,140,000
Test Year Avg W ERCs	536
Test Year Avg WW ERCs	175.3
Ratio W/WW	0.33
Adjusted Water Sold	8,549,146

Growth Adjustment

Annual ERC Growth	0.13%	from MFRs
Period	7	
Growth Factor	1.01	
Adjusted Flow	18,164	

Permit

Flow Basis	Annual Average	
Flow (gpd)	50,000	from MFRs Doc 11002-06

Used and Useful 36.33%

Notes

Valencia Terrace

Flows

Annual Avg. (gpd)	35,000	from DMR analysis
Max. Month (gpd)	44,000	from DMR analysis
Max. Three Mo.Avg (gpd)	42,000	from DMR analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	20,458,000	from MFRs
Test Year Water Sold (gpd)	56,049	
Return Factor	80%	
Water Returned to WW (gpd)	44,839	
Test Year Wastewater AADF (	35,000	
Difference	(9,839)	
Percent I/I	0%	
Allowable I/I	10%	
Adjustment	0%	
Adjusted Flow	35,000	

Growth Adjustment

Annual ERC Growth	0.00%	MFRs show 4.23% but indicate service area is built out
Period	7	
Growth Factor	1.00	
Adjusted Flow	35,000	

Permit

Flow Basis	Annual Avg	
Flow (gpd)	80,000	from MFRs Doc. 10972-06

Used and Useful 43.75%

Notes

Village Water

Flows

Annual Avg. (gpd)	54,000	from DMR analysis
Max. Month (gpd)	62,000	from DMR analysis; disagrees with MFR Doc 10985-06
Max. Three Mo.Avg (gpd)	61,000	from DMR analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	8,351,786	from MFRs	
Test Year Water Sold (gpd)	22,882	Adjust Test Year Water Sold	
Return Factor	80%	Test Year Water Sold (gal)	28,751,000
Water Returned to WW (gpd)	18,305	Test Year Avg W ERCs	314.3
Test Year Wastewater AADF (	54,000	Test Year Avg WW ERCs	91.3
Difference	35,695	Ratio W/WW	0.29
Percent I/I	66%	Adjusted Water Sold	8,351,786
Allowable I/I	10%		
Adjustment	56%		
Adjusted Flow	23,705		

Growth Adjustment

Annual ERC Growth	0.00%	MFRs show -0.38%
Period	7	
Growth Factor	1.00	
Adjusted Flow	23,705	

Permit

Flow Basis	Annual Avg	
Flow (gpd)	75,000	from MFR Doc 10985-06

Used and Useful 31.61%

Notes

Missing Mar 2005 data

The Woods

Flows

Annual Avg. (gpd)	8,000	from DMR analysis
Max. Month (gpd)	10,000	from DMR analysis
Max. Three Mo.Avg (gpd)	10,000	from DMR analysis

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	2,848,000	from MFRs
Test Year Water Sold (gpd)	7,803	
Return Factor	80%	
Water Returned to WW (gpd)	6,242	
Test Year Wastewater AADF (	8,000	
Difference	1,758	
Percent I/I	22%	
Allowable I/I	10%	
Adjustment	12%	
Adjusted Flow	7,042	

Growth Adjustment

Annual ERC Growth	0.00%	MFRs show 0.39% but indicate service area is built out
Period	7	
Growth Factor	1.00	
Adjusted Flow	7,042	

Permit	**Plant**	**Effluent Disposal**	
Flow Basis	Three Month Avg	Annual Average	
Flow (gpd)	15,000	15,000	from MFR Doc 10999-06
Used and Useful	46.95%	46.95%	

Notes

Zephyr Shores

Interconnected

Infiltration/Inflow Adjustment

Test Year Water Sold (gal)	6,666,000
Test Year Water Sold (gpd)	18,263
Return Factor	80%
Water Returned to WW (gpd)	14,610
Test Year Wastewater AADF (gpd)	17,775
Difference	3,165
Percent I/I	18%
Allowable I/I	10%
Adjustment	8%
Adjusted Flow	-

EXHIBIT ATW-5

PIPING USED AND USEFUL

EXHIBIT ATW-5
Piping Used and Useful Summary

	Water			Wastewater			Water	Wastewater
System	Lots	Customers	U&U	Lots	Customers	U&U	Non U&U	Non U&U
48 Estates	143	95	66.22%	N/A	N/A	N/A	33.78%	N/A
49th St Villas	110	109	99.46%	N/A	N/A	N/A	0.54%	N/A
Arredondo Estates	698	686	98.28%	443	431	97.29%	1.72%	2.71%
Beechers Point	97	42	43.30%	47	16	34.04%	56.70%	65.96%
Belleair	226	234	100.00%	N/A	N/A	N/A	0.00%	N/A
Belleview Hills	122	122	100.00%	N/A	N/A	N/A	0.00%	N/A
Belleview Hills Estates	374	348	92.92%	N/A	N/A	N/A	7.08%	N/A
Carlton Village	593	190	31.99%	N/A	N/A	N/A	68.01%	N/A
Chappell Hills	46	44	95.60%	N/A	N/A	N/A	4.40%	N/A
Chuluota	1673	1603	95.80%	816	754	92.34%	4.20%	7.66%
East Lake Harris-Friendly Estate	249	221	88.69%	N/A	N/A	N/A	11.31%	N/A
Fairfax Hills	86	92	100.00%	N/A	N/A	N/A	0.00%	N/A
Fern Terrace	137	128	93.43%	N/A	N/A	N/A	6.57%	N/A
Florida Central Commerce Park	N/A	N/A	N/A	59	48	81.36%	N/A	18.64%
Gibsonia Estates	243	218	89.54%	N/A	N/A	N/A	10.46%	N/A
Grand Terrace	111	111	100.00%	N/A	N/A	N/A	0.00%	N/A
Haines Creek	157	163	100.00%	N/A	N/A	N/A	0.00%	N/A
Harmony Homes	60	57	95.00%	N/A	N/A	N/A	5.00%	N/A
Hawks Point	60	61	100.00%	N/A	N/A	N/A	0.00%	N/A
Hermits Cove	346	185	53.47%	N/A	N/A	N/A	46.53%	N/A
Hobby Hills	113	103	91.15%	N/A	N/A	N/A	8.85%	N/A
Holiday Haven	159	130	81.76%	156	124	79.49%	18.24%	20.51%
Imperial Mobile Home Park	252	248	98.46%	N/A	N/A	N/A	1.54%	N/A
Interlachen Lakes	369	282	76.42%	N/A	N/A	N/A	23.58%	N/A
Jasmine Lakes	1539	1539	100.00%	1539	1539	100.00%	0.00%	0.00%
Jungle Den	46	40	87.39%	114	73	64.35%	12.61%	35.65%
Kings Cove	211	211	100.00%	211	211	100.00%	0.00%	0.00%
Kingswood	68	68	100.00%	N/A	N/A	N/A	0.00%	N/A
Lake Gibson Estates	884	824	93.18%	321	390	100.00%	6.82%	0.00%
Lake Josephine	678	544	80.29%	N/A	N/A	N/A	19.71%	N/A
Lake Osbourne	494	490	99.20%	N/A	N/A	N/A	0.80%	N/A
Rosalie Oaks	126	125	99.00%	126	121	96.27%	1.00%	3.73%
Leisure Lakes Estates	398	271	68.21%	398	315	79.09%	31.79%	20.91%
Marions Hills	29	31	100.00%	N/A	N/A	N/A	0.00%	N/A
Morningview	42	40	95.24%	42	40	95.24%	4.76%	4.76%
Oakwood	267	233	87.27%	N/A	N/A	N/A	12.73%	N/A
Ocala Oaks (combined)	1821	1686	99.31%	N/A	N/A	N/A	0.69%	N/A
Orange Hill-Sugar Creek	274	249	90.88%	N/A	N/A	N/A	9.12%	N/A
Palm MHP	91	62	68.13%	N/A	N/A	N/A	31.87%	N/A
Palm Port	126	110	87.65%	126	108	86.04%	12.35%	13.96%
Palm Terrace	1239	1232	99.44%	1239	1232	99.44%	0.56%	0.56%
Park Manor	N/A	N/A	N/A	32	32	100.00%	N/A	0.00%
Picciola Island	228	140	61.61%	N/A	N/A	N/A	38.39%	N/A
Piney Woods	208	179	85.92%	N/A	N/A	N/A	14.08%	N/A
Pomona Park	592	223	37.69%	N/A	N/A	N/A	62.31%	N/A
Quail Ridge	104	125	100.00%	N/A	N/A	N/A	0.00%	N/A
Ravenswood	62	55	88.25%	N/A	N/A	N/A	11.75%	N/A
Ridge Meadows	47	36	77.59%	N/A	N/A	N/A	22.41%	N/A
River Grove	119	112	94.12%	N/A	N/A	N/A	5.88%	N/A
Sebring Lakes	646	167	25.86%	N/A	N/A	N/A	74.14%	N/A
Silver Lake Oaks	56	39	70.43%	56	38	67.86%	29.57%	32.14%
Silver Lake Western Shores	1696	1460	86.08%	N/A	N/A	N/A	13.92%	N/A
Skycrest	136	802	100.00%	N/A	N/A	N/A	0.00%	N/A
South Seas	N/A	N/A	N/A	177	155	87.57%	N/A	12.43%
St Johns Highlands	177	78	44.07%	N/A	N/A	N/A	55.93%	N/A
Stone Mountain	25	13	51.59%	N/A	N/A	N/A	48.41%	N/A
Summit Chase	162	162	100.00%	162	159	98.15%	0.00%	1.85%
Sunny Hills	7009	802	11.44%	508	289	56.90%	88.56%	43.10%
Tangerine	429	185	43.13%	N/A	N/A	N/A	56.87%	N/A
The Woods	143	71	49.65%	143	59	41.26%	50.35%	58.74%
Tomoka	304	273	89.80%	N/A	N/A	N/A	10.20%	N/A
Valencia Terrace	342	360	100.00%	341	354	100.00%	0.00%	0.00%
Venetian Village	222	149	67.05%	104	93	89.08%	32.95%	10.92%
Village Water	311	213	68.46%	106	35	33.02%	31.54%	66.98%
Welaka-Saratoga Harbour	457	143	31.29%	N/A	N/A	N/A	68.71%	N/A
Westview	37	32	86.97%	N/A	N/A	N/A	13.03%	N/A
Woodberry Forest	58	60	100.00%	N/A	N/A	N/A	0.00%	N/A
Wootens	64	28	43.75%	N/A	N/A	N/A	56.25%	N/A
Zephyr Shores	536	537	100.00%	536	546	100.00%	0.00%	0.00%

48 Estates

	Water
Connections (from map count)	93
ERCs (Avg Test Yr)	78.5
Lots (from map count	143
GROWTH ADJUSTMENT	
Annual ERC Growth	0.33%
Period	5.5
Growth Factor	1.02
Adjusted Connections	95
Adjusted ERCs	80
Used and Useful (connections)	66.22%
Used and Useful (ERCs)	55.89%

Notes

Arredondo Combined

	Water	Wastewater
Connections (from map count)	686	431
ERCs (Avg Test Yr)	535.1	317.9
Lots (from map count	698	443
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	686	431
Adjusted ERCs	535	318
Used and Useful (connections)	98.28%	97.29%
Used and Useful (ERCs)	76.66%	71.76%

Notes

Arredondo Farms

	Water	Wastewater
Customers	431	431
ERCs		
Lots	443	443
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	431	431
Adjusted ERCs	0	0
Used and Useful (con	97.29%	97.29%
Used and Useful (ERC	0.00%	0.00%

Notes

Beechers point

	Water	Wastewater
Connections (from map count)	42	16
ERCs (Avg Test Yr)	99	41
Lots (from map count)	97	47
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	42	16
Adjusted ERCs	99	41
Used and Useful (connections)	43.30%	34.04%
Used and Useful (ERCs)	100.00%	87.23%

Notes

Carlton Village

	Water
Connections (from map count)	167
ERCs (Avg Test Yr)	204
Lots (from map count)	593
GROWTH ADJUSTMENT	
Annual ERC Growth	2.47%
Period	5.5
Growth Factor	1.14
Adjusted Connections	190
Adjusted ERCs	232
Used and Useful (connections)	31.99%
Used and Useful (ERCs)	39.07%

Notes

Chuluota

	Water	Wastewater
Connections (from map count)	1257	591
ERCs (Avg Test Yr)	1307	541
Lots (from map count)	1673	816
GROWTH ADJUSTMENT		
Annual ERC Growth	5.00%	5.00%
Period	5.5	5.5
Growth Factor	1.28	1.28
Adjusted Connections	1603	754
Adjusted ERCs	1666	690
Used and Useful (connections)	95.80%	92.34%
Used and Useful (ERCs)	99.61%	84.53%

Notes

East Lake Harris - Friendly Lakes Estates

	Water
Connections (from map count)	214
ERCs (Avg Test Yr)	205.5
Lots (from map count)	249
GROWTH ADJUSTMENT	
Annual ERC Growth	0.58%
Period	5.5
Growth Factor	1.03
Adjusted Connections	221
Adjusted ERCs	212
Used and Useful (connections)	88.69%
Used and Useful (ERCs)	85.16%

Notes

Fern Terrace

	Water
Connections (from map count)	128
ERCs (Avg Test Yr)	132
Lots (from map count)	137
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	128
Adjusted ERCs	132
Used and Useful (connections)	93.43%
Used and Useful (ERCs)	96.35%

Notes

Florida Central Commerce Park

	Wastewater
Connections (from map count)	48
ERCs (Avg Test Yr)	166.5
Lots (from map count)	59
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	48
Adjusted ERCs	167
Used and Useful (connections)	81.36%
Used and Useful (ERCs)	100.00%

Notes

Gibsonia Estates

	Water
Connections (from map count)	188
ERCs (Avg Test Yr)	189.5
Lots (from map count)	243
GROWTH ADJUSTMENT	
Annual ERC Growth	2.86%
Period	5.5
Growth Factor	1.16
Adjusted Connections	218
Adjusted ERCs	219
Used and Useful (connections)	89.54%
Used and Useful (ERCs)	90.25%

Notes

Grand Terrace

	Water
Connections (from map count)	111
ERCs (Avg Test Yr)	108.5
Lots (from map count)	111
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	111
Adjusted ERCs	109
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	97.75%

Notes

Haines Creek

	Water
Connections (from map count)	147
ERCs (Avg Test Yr)	108.3
Lots (from map count	157
GROWTH ADJUSTMENT	
Annual ERC Growth	1.94%
Period	5.5
Growth Factor	1.11
Adjusted Connections	163
Adjusted ERCs	120
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	76.34%

Notes

Harmony Homes

	Water
Connections (from map count)	57
ERCs (Avg Test Yr)	58.5
Lots (from map count)	60
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	57
Adjusted ERCs	59
Used and Useful (connections)	95.00%
Used and Useful (ERCs)	97.50%

Notes

Hermit Cove

	Water
Connections (from map count)	185
ERCs (Avg Test Yr)	173.5
Lots (from map count)	346
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	185
Adjusted ERCs	174
Used and Useful (connections)	53.47%
Used and Useful (ERCs)	50.14%

Notes

Hobby Hills

	Water
Connections (from map count)	103
ERCs (Avg Test Yr)	104
Lots (from map count)	113
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	103
Adjusted ERCs	104
Used and Useful (connections)	91.15%
Used and Useful (ERCs)	92.04%

Notes

Holiday Haven

	Water	Wastewater
Connections (from map count)	130	124
ERCs (Avg Test Yr)	120.5	108
Lots (from map count)	159	156
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	130	124
Adjusted ERCs	121	108
Used and Useful (connections)	81.76%	79.49%
Used and Useful (ERCs)	75.79%	69.23%

Notes

Imperial Mobile Home Park

	Water
Connections (from map count)	242
ERCs (Avg Test Yr)	247
Lots (from map count)	252
GROWTH ADJUSTMENT	
Annual ERC Growth	0.46%
Period	5.5
Growth Factor	1.03
Adjusted Connections	248
Adjusted ERCs	253
Used and Useful (connections)	98.46%
Used and Useful (ERCs)	100.00%

Notes

Interlachen Lakes

	Water
Connections (from map count)	282
ERCs (Avg Test Yr)	270
Lots (from map count)	369
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	282
Adjusted ERCs	270
Used and Useful (connections)	76.42%
Used and Useful (ERCs)	73.17%

Notes

Jasmine Lakes

	Water	Wastewater
Connections (from map count)	1539	1539
ERCs (Avg Test Yr)	1587	1549.9
Lots (from map count)	1539	1539
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	1539	1539
Adjusted ERCs	1587	1550
Used and Useful (connections)	100.00%	100.00%
Used and Useful (ERCs)	100.00%	100.00%

Notes

Jungle Den

	Water	Wastewater
Connections (from map count)	40	64
ERCs (Avg Test Yr)	115	135.5
Lots (from map count)	46	114
GROWTH ADJUSTMENT		
Annual ERC Growth	0.09%	2.66%
Period	5.5	5.5
Growth Factor	1.00	1.15
Adjusted Connections	40	73
Adjusted ERCs	116	155
Used and Useful (connections)	87.39%	64.35%
Used and Useful (ERCs)	100.00%	100.00%

Notes

Kings Cove

	Water	Wastewater
Connections (from map count)	211	211
ERCs (Avg Test Yr)	205.7	198.8
Lots (from map count	211	211
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	211	211
Adjusted ERCs	206	199
Used and Useful (connections)	100.00%	100.00%
Used and Useful (ERCs)	97.49%	94.22%

Notes

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Kings Wood

	Water
Connections (from map count)	68
ERCs (Avg Test Yr)	60.5
Lots (from map count)	68
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	68
Adjusted ERCs	61
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	88.97%

Notes

Lake Gibson Estates

	Water	Wastewater
Connections (from map count)	797	312
ERCs (Avg Test Yr)	832	330
Lots (from map count)	884	321
GROWTH ADJUSTMENT		
Annual ERC Growth	0.61%	4.52%
Period	5.5	5.5
Growth Factor	1.03	1.25
Adjusted Connections	824	390
Adjusted ERCs	860	412
Used and Useful (connections)	93.18%	100.00%
Used and Useful (ERCs)	97.28%	100.00%

Notes

Lake Josephine

	Water
Connections (from map count)	507
ERCs (Avg Test Yr)	547
Lots (from map count)	678
GROWTH ADJUSTMENT	
Annual ERC Growth	1.34%
Period	5.5
Growth Factor	1.07
Adjusted Connections	544
Adjusted ERCs	587
Used and Useful (connections)	80.29%
Used and Useful (ERCs)	86.62%

Notes

Lake Osbourne

	Water
Connections (from map count)	485
ERCs (Avg Test Yr)	485.3
Lots (from map count)	494
GROWTH ADJUSTMENT	
Annual ERC Growth	0.19%
Period	5.5
Growth Factor	1.01
Adjusted Connections	490
Adjusted ERCs	490
Used and Useful (connections)	99.20%
Used and Useful (ERCs)	99.27%

Notes

Leisure Lakes Estates

	Water	Wastewater
Connections (from map count)	249	285
ERCs (Avg Test Yr)	282	278.5
Lots (from map count)	398	398
GROWTH ADJUSTMENT		
Annual ERC Growth	1.64%	1.90%
Period	5.5	5.5
Growth Factor	1.09	1.10
Adjusted Connections	271	315
Adjusted ERCs	307	308
Used and Useful (connections)	68.21%	79.09%
Used and Useful (ERCs)	77.25%	77.29%

Notes

Morning View

	Water	Wastewater
Connections (from map count)	40	40
ERCs (Avg Test Yr)	40.5	39.5
Lots (from map count)	42	42
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	40	40
Adjusted ERCs	41	40
Used and Useful (connections)	95.24%	95.24%
Used and Useful (ERCs)	96.43%	94.05%

Notes

Oakwood

	Water
Connections (from map count)	233
ERCs (Avg Test Yr)	204
Lots (from map count)	267
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	233
Adjusted ERCs	204
Used and Useful (connections)	87.27%
Used and Useful (ERCs)	76.40%

Notes

Ocala Oaks Combined

	Water
Connections (from map count)	1686
ERCs (Avg Test Yr)	1732.8
Lots (from map count)	1821
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	1808
Adjusted ERCs	1859
Used and Useful (connections)	99.31%
Used and Useful (ERCs)	100.00%

Notes

49th St Villas

	Water
Customers	102
ERCs	
Lots	110
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	109
Adjusted ERCs	0
Used and Useful (connections)	99.46%
Used and Useful (ERCs)	0.00%

Notes

Bellair

	Water
Customers	218
ERCs	
Lots	226
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	234
Adjusted ERCs	0
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	0.00%

Notes

Belleview Hills

	Water
Customers	114
ERCs	
Lots	122
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	122
Adjusted ERCs	0
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	0.00%

Notes

Belleview Hills Estates

	Water
Customers	324
ERCs	
Lots	374
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	348
Adjusted ERCs	0
Used and Useful (connections)	92.92%
Used and Useful (ERCs)	0.00%

Notes

Chappell Hills

	Water
Customers	41
ERCs	
Lots	46
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	44
Adjusted ERCs	0
Used and Useful (connections)	95.60%
Used and Useful (ERCs)	0.00%

Notes

Fairfax Hills

	Water
Customers	86
ERCs	
Lots	86
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	92
Adjusted ERCs	0
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	0.00%

Notes

Hawks Point

	Water
Customers	57
ERCs	
Lots	60
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	61
Adjusted ERCs	0
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	0.00%

Notes

Marion Hills

	Water
Customers	29
ERCs	
Lots	29
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	31
Adjusted ERCs	0
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	0.00%

Notes

Ocala Oaks

	Water
Connections (from map count)	595
ERCs (Avg Test Yr)	1732.8
Lots (from map count)	626
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	638
Adjusted ERCs	1859
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	100.00%

Notes

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Ridgeview

	Water
Customers	34
ERCs	
Lots	47
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	36
Adjusted ERCs	0
Used and Useful (connections)	77.59%
Used and Useful (ERCs)	0.00%

Notes

Westview

	Water
Customers	30
ERCs	
Lots	37
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	32
Adjusted ERCs	0
Used and Useful (connections)	86.97%
Used and Useful (ERCs)	0.00%

Woodbury Forest

	Water
Customers	56
ERCs	
Lots	58
GROWTH ADJUSTMENT	
Annual ERC Growth	1.32%
Period	5.5
Growth Factor	1.07
Adjusted Connections	60
Adjusted ERCs	0
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	0.00%

Orange Hill - Sugar Creek

	Water
Connections (from map count)	249
ERCs (Avg Test Yr)	233
Lots (from map count)	274
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	249
Adjusted ERCs	233
Used and Useful (connections)	90.88%
Used and Useful (ERCs)	85.04%

Notes

Palm MHP

	Water
Connections (from map count)	62
ERCs (Avg Test Yr)	59
Lots (from map count)	91
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	62
Adjusted ERCs	59
Used and Useful (connections)	68.13%
Used and Useful (ERCs)	64.84%

Notes

Palm Port

	Water	Wastewater
Connections (from map count)	109	107
ERCs (Avg Test Yr)	105	105
Lots (from map count)	126	126
GROWTH ADJUSTMENT		
Annual ERC Growth	0.24%	0.24%
Period	5.5	5.5
Growth Factor	1.01	1.01
Adjusted Connections	110	108
Adjusted ERCs	106	106
Used and Useful (connections)	87.65%	86.04%
Used and Useful (ERCs)	84.43%	84.43%

Notes

Palm Terrace

	Water	Wastewater
Connections (from map count)	1232	1232
ERCs (Avg Test Yr)	1167.5	1009
Lots (from map count)	1239	1239
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	1232	1232
Adjusted ERCs	1168	1009
Used and Useful (connections)	99.44%	99.44%
Used and Useful (ERCs)	94.23%	81.44%

Notes

Park Manor

	Water	Wastewater
Connections (from map count)	with interlachen	32
ERCs (Avg Test Yr)		29.5
Lots (from map count)	with interlachen	32
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	#VALUE!	32
Adjusted ERCs	0	30
Used and Useful (connections)		100.00%
Used and Useful (ERCs)		92.19%

Notes

Picciola Island

	Water
Connections (from map count)	137
ERCs (Avg Test Yr)	138
Lots (from map count)	228
GROWTH ADJUSTMENT	
Annual ERC Growth	0.46%
Period	5.5
Growth Factor	1.03
Adjusted Connections	140
Adjusted ERCs	141
Used and Useful (connections)	61.61%
Used and Useful (ERCs)	62.06%

Notes

Piney Woods

	Water
Connections (from map count)	176
ERCs (Avg Test Yr)	171.5
Lots (from map count)	208
GROWTH ADJUSTMENT	
Annual ERC Growth	0.28%
Period	5.5
Growth Factor	1.02
Adjusted Connections	179
Adjusted ERCs	174
Used and Useful (connections)	85.92%
Used and Useful (ERCs)	83.72%

Notes

Pomona Park

	Water
Connections (from map count)	175
ERCs (Avg Test Yr)	169
Lots (from map count)	592
GROWTH ADJUSTMENT	
Annual ERC Growth	5.00%
Period	5.5
Growth Factor	1.28
Adjusted Connections	223
Adjusted ERCs	215
Used and Useful (connections)	37.69%
Used and Useful (ERCs)	36.40%

Notes

Quail Ridge

	Water
Connections (from map count)	98
ERCs (Avg Test Yr)	80.5
Lots (from map count)	104
GROWTH ADJUSTMENT	
Annual ERC Growth	5.00%
Period	5.5
Growth Factor	1.28
Adjusted Connections	125
Adjusted ERCs	103
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	98.69%

Notes

Ravenswood

	Water
Connections (from map count)	49
ERCs (Avg Test Yr)	43
Lots (from map count	62
GROWTH ADJUSTMENT	
Annual ERC Growth	2.12%
Period	5.5
Growth Factor	1.12
Adjusted Connections	55
Adjusted ERCs	48
Used and Useful (connections)	88.25%
Used and Useful (ERCs)	77.44%

Notes

River Grove

	Water
Connections (from map count)	112
ERCs (Avg Test Yr)	106
Lots (from map count)	119
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	112
Adjusted ERCs	106
Used and Useful (connections)	94.12%
Used and Useful (ERCs)	89.08%

Notes

Rosalie Oaks

	Water	Wastewater
Connections (from map count)	116	116
ERCs (Avg Test Yr)	92.4	92.3
Lots (from map count)	126	126
GROWTH ADJUSTMENT		
Annual ERC Growth	1.37%	0.83%
Period	5.5	5.5
Growth Factor	1.08	1.05
Adjusted Connections	125	121
Adjusted ERCs	99	97
Used and Useful (connections)	99.00%	96.27%
Used and Useful (ERCs)	78.86%	76.60%

Notes

Sebring Lakes

	Water
Connections (from map count)	131
ERCs (Avg Test Yr)	66.3
Lots (from map count)	646
GROWTH ADJUSTMENT	
Annual ERC Growth	5.00%
Period	5.5
Growth Factor	1.28
Adjusted Connections	167
Adjusted ERCs	85
Used and Useful (connections)	25.86%
Used and Useful (ERCs)	13.09%

Notes

Silver Lake - Western Shores

	Water
Connections (from map count)	1460
ERCs (Avg Test Yr)	1854.5
Lots (from map count)	1696
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	1460
Adjusted ERCs	1855
Used and Useful (connections)	86.08%
Used and Useful (ERCs)	100.00%

Notes

Silver Lake Oaks

	Water	Wastewater
Connections (from map count)	38	38
ERCs (Avg Test Yr)	37	37
Lots (from map count)	56	56
GROWTH ADJUSTMENT		
Annual ERC Growth	0.69%	0.00%
Period	5.5	5.5
Growth Factor	1.04	1.00
Adjusted Connections	39	38
Adjusted ERCs	38	37
Used and Useful (connections)	70.43%	67.86%
Used and Useful (ERCs)	68.58%	66.07%

Notes

Skycrest

	Water
Connections (from map count)	120
ERCs (Avg Test Yr)	117.5
Lots (from map count)	136
GROWTH ADJUSTMENT	
Annual ERC Growth	5.00%
Period	5.5
Growth Factor	1.28
Adjusted Connections	153
Adjusted ERCs	150
Used and Useful (connections)	100.00%
Used and Useful (ERCs)	100.00%

Notes

South Seas

	Wastewater
Connections (from map count)	155
ERCs (Avg Test Yr)	316.2
Lots (from map count)	177
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	155
Adjusted ERCs	316
Used and Useful (connections)	87.57%
Used and Useful (ERCs)	100.00%

Notes

St Johns Highland

	Water
Connections (from map count)	78
ERCs (Avg Test Yr)	94.5
Lots (from map count)	177
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	78
Adjusted ERCs	95
Used and Useful (connections)	44.07%
Used and Useful (ERCs)	53.39%

Notes

Stone Mountain

	Water
Connections (from map count)	12
ERCs (Avg Test Yr)	9.5
Lots (from map count)	25
GROWTH ADJUSTMENT	
Annual ERC Growth	1.36%
Period	5.5
Growth Factor	1.07
Adjusted Connections	13
Adjusted ERCs	10
Used and Useful (connections)	51.59%
Used and Useful (ERCs)	40.84%

Notes

Summit Chase

	Water	Wastewater
Connections (from map count)	162	159
ERCs (Avg Test Yr)	219.7	216.9
Lots (from map count	162	162
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	162	159
Adjusted ERCs	220	217
Used and Useful (connections)	100.00%	98.15%
Used and Useful (ERCs)	100.00%	100.00%

Notes

Sunny Hills

	Water	Wastewater
Connections (from map count)	664	287
ERCs (Avg Test Yr)	536	173.5
Lots (from map count)	7009	508
GROWTH ADJUSTMENT		
Annual ERC Growth	3.78%	0.13%
Period	5.5	5.5
Growth Factor	1.21	1.01
Adjusted Connections	802	289
Adjusted ERCs	647	175
Used and Useful (connections)	11.44%	56.90%
Used and Useful (ERCs)	9.24%	34.40%

Notes

Tangerine

	Water
Connections (from map count)	178
ERCs (Avg Test Yr)	277.5
Lots (from map count)	429
GROWTH ADJUSTMENT	
Annual ERC Growth	0.72%
Period	5.5
Growth Factor	1.04
Adjusted Connections	185
Adjusted ERCs	288
Used and Useful (connections)	43.13%
Used and Useful (ERCs)	67.25%

Notes

Tomoka/Twin Rivers

	Water
Connections (from map count)	273
ERCs (Avg Test Yr)	273
Lots (from map count)	304
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	273
Adjusted ERCs	273
Used and Useful (connections)	89.80%
Used and Useful (ERCs)	89.80%

Notes

Twin Rivers

	Water
Customers	77
ERCs	
Lots	89
Used and Useful	86.52%

Valencia Terrace

	Water	Wastewater
Connections (from map count)	342	354
ERCs (Avg Test Yr)	370.5	353.5
Lots (from map count)	342	341
GROWTH ADJUSTMENT		
Annual ERC Growth	0.95%	0.00%
Period	5.5	5.5
Growth Factor	1.05	1.00
Adjusted Connections	360	354
Adjusted ERCs	390	354
Used and Useful (connections)	100.00%	100.00%
Used and Useful (ERCs)	100.00%	100.00%

Notes

Venetian Village

	Water	Wastewater
Connections (from map count)	140	88
ERCs (Avg Test Yr)	147.5	93.5
Lots (from map count)	222	104
GROWTH ADJUSTMENT		
Annual ERC Growth	1.15%	0.96%
Period	5.5	5.5
Growth Factor	1.06	1.05
Adjusted Connections	149	93
Adjusted ERCs	157	98
Used and Useful (connections)	67.05%	89.08%
Used and Useful (ERCs)	70.64%	94.65%

Village Water

	Water	Wastewater
Connections (from map count)	189	35
ERCs (Avg Test Yr)	314.3	91.3
Lots (from map count)	311	106
GROWTH ADJUSTMENT		
Annual ERC Growth	2.30%	0.00%
Period	5.5	5.5
Growth Factor	1.13	1.00
Adjusted Connections	213	35
Adjusted ERCs	354	91
Used and Useful (connections)	68.46%	33.02%
Used and Useful (ERCs)	100.00%	86.13%

Welaka - Saratoga Harbour

	Water
Connections (from map count)	143
ERCs (Avg Test Yr)	143
Lots (from map count)	457
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	143
Adjusted ERCs	143
Used and Useful (connections)	31.29%
Used and Useful (ERCs)	31.29%

The Woods

	Water	Wastewater
Connections (from map count)	71	59
ERCs (Avg Test Yr)	63.5	59.3
Lots (from map count)	143	143
GROWTH ADJUSTMENT		
Annual ERC Growth	0.00%	0.00%
Period	5.5	5.5
Growth Factor	1.00	1.00
Adjusted Connections	71	59
Adjusted ERCs	64	59
Used and Useful (connections)	49.65%	41.26%
Used and Useful (ERCs)	44.41%	41.47%

Wootens

	Water
Connections (from map count)	28
ERCs (Avg Test Yr)	28
Lots (from map count)	64
GROWTH ADJUSTMENT	
Annual ERC Growth	0.00%
Period	5.5
Growth Factor	1.00
Adjusted Connections	28
Adjusted ERCs	28
Used and Useful (connections)	43.75%
Used and Useful (ERCs)	43.75%

Zephry Shores

	Water	Wastewater
Connections (from map count)	518	518
ERCs (Avg Test Yr)	518.5	516
Lots (from map count)	536	536
GROWTH ADJUSTMENT		
Annual ERC Growth	0.65%	1.00%
Period	5.5	5.5
Growth Factor	1.04	1.06
Adjusted Connections	537	546
Adjusted ERCs	537	544
Used and Useful (connections)	100.00%	100.00%
Used and Useful (ERCs)	100.00%	100.00%