LAKE COUNTY
WATER SUPPLY PLAN

April 10, 2009

LAKE COUNTY
FLORIDA

Wendy Grey AICP
WENDY GREY LAND USE PLANNING

NANCY MILLER PLANNING

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CHAPTER 1: OVERVIEW OF WATER SUPPLY PLANNING IN LAKE COUNTY

1.1 Introduction

Senate Bill 360, enacted by the State Legislature in 2005, established new requirements for water supply planning. The availability of water supplies and public facilities are now part of the data and analysis on which the Future Land Use Element and Future Land Use Map must be based. In addition to these new requirements for data and analysis, local governments must amend their comprehensive plans to address water supply concurrency, identify water supply projects needed to meet demand over a ten year period, and ensure coordination with Water Management District water supply plans. This report contains the data and analysis and proposed Plan amendments necessary to comply with these State requirements.

Lake County is not a water provider and does not own, operate, or maintain any potable water systems. All potable water systems within the County are maintained and operated by the municipalities, private entities, or individual water well systems. The County does, however, recognize the importance of water supply planning and therefore joined with the municipalities and formed the Lake County Water Alliance to develop a county-wide Water Supply Plan. This report presents data and analysis provided by the various providers in the County and the Lake County Water Alliance and analyzes the demands of users served by wells, or Domestic Self-Supply.

Water Resource Associates, Inc. (WRA) was selected by the Lake County Water Alliance (Alliance) to develop the Lake County Water Supply Plan (hereafter referred to as the LCWSP) for its member governments. The Alliance is constituted of the following jurisdictions: the Cities of Clermont, Eustis, Fruitland Park, Groveland, Howey-In-The-Hills, Lady Lake, Leesburg, Mascotte, Minneola, Montverde, Mount Dora, Tavares and Umatilla, as well as the Village Center Community Development District. Originally, Lake County and Astatula were members of the Alliance but withdrew during the Plan process. The City of Leesburg, acting as an administrative arm of the Alliance, contracted with WRA in May of 2006 to complete the Plan. The St. Johns River Water Management District (SJRWMD) provided funding to the Alliance for the study and has been an active participant in providing data to the study and review of work-product.

1.2 Lake County Location and Context

Lake County lies in the very heart of peninsular Florida. The County is 1,156 square miles in size. The St. Johns River delineates the northeastern boundary with Volusia

and Seminole Counties in upper Lake County. The County is bordered by Orange and Osceola Counties to the southeast, Polk County to the south, Sumter County to the west and Marion County to the north (see Map 1)

Development in Lake County has primarily occurred in the central and southern portions of the County along the length of U.S. Highway 27, the I-4 corridor and U.S. Highway 441 on sandhill uplands that were historically cultivated for citrus. Estimates by the Bureau of Economic and Business Regulation (BEBR) for 2007 placed the County's population at 286,499 residents, an increase of 36% over the 2000 Census population of 210,527. The Lake County 2008 Evaluation and Appraisal Report (EAR) projects that the 2025 population of the County will be 354,600 (BEBR low projection). The *Lake County Water Supply Plan* prepared for the Lake Water Alliance projects the permanent population to reach 519,335 in 2025.[1] It is recognized that the difference between these projections is significant. The implications of different data sources are discussed in Chapter 2.

There are 14 incorporated entities in Lake County. According to the Lake County EAR, the percentage of the total county population residing in unincorporated Lake County has been decreasing. In 2000, 57% of the population lived in unincorporated Lake County. By 2007, that figure had dropped to 54%.[2]

Lake County is rich in significant natural resources, primarily water based. There are 1,400 named lakes in the County. The State of Florida legislatively provides heightened protection for two areas of the County: the Green Swamp and the Wekiva River basin. The Green Swamp is designated as an Area of Critical State Concern. This designation provides for greater state oversight in comprehensive planning and land development regulations. The Green Swamp is comprised of approximately 560,000 acres in Lake, Polk, Sumter, Hernando and Pasco Counties. The Swamp is the headwater for the Hillsborough, Withlacoochee, Peace and Ocklawaha Rivers. As such, it is both an important source for potable water for southwest Florida and a significant habitat area.

The Wekiva River Protection Area and Study Area in Lake County lie in the eastern central portion of the County, extending below County Road 42 west of the St. Johns River. Parts of Orange and Seminole Counties are also within these special areas. The Wekiva River and its tributaries are designated as an Outstanding Florida Water, a National Wild and Scenic River, and a Florida Aquatic Preserve. The river system is fed by a series of springs. The springs, in turn, are fed by groundwater. Protecting groundwater is key to preserving the River system. Within the Study Area, four major protection activities are required:

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[1] *Lake County Water Supply Plan*, Water Resource Associates, Inc., September 2007, page ER-10.

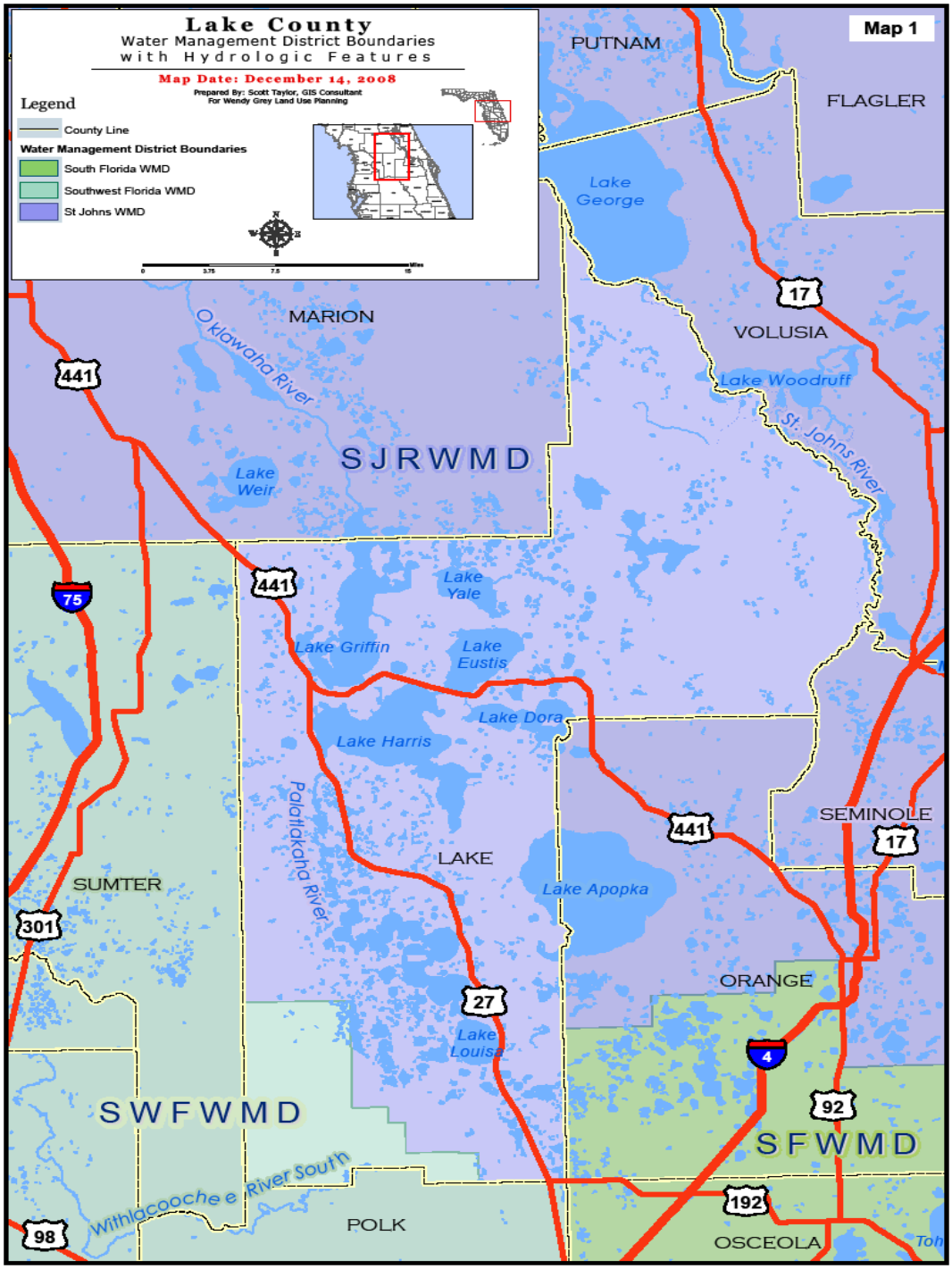
[2] Lake County Evaluation and Appraisal Report, September 23, 2008, page 3,

- Local government Comprehensive Plans are required to address protection of water resources;
- The Florida Department of Environmental Protection, the Florida Department of Health, and the St. Johns River Water Management District are required to conduct studies and initiate rulemaking to protect water resources;
- The design of the Wekiva Parkway is to include buffer areas; and
- The Wekiva River Basin Commission is to provide oversight.

In addition, much of the area in upper Lake County north of County Road 42 is within the Ocala National Forest.

Fresh groundwater from the Upper Floridan aquifer currently constitutes the main source of potable water for all of Lake County. Thirteen municipalities and 30 private suppliers provide water to specified service areas within the County. In the future, surface water sources will most likely be tapped by these providers for alternative potable water supply. The government of Lake County is not a potable water supplier and has no supply or distribution systems. Portions of the County located outside the service areas of the County's 43 providers rely on wells, or Domestic Self-Supply.

Map 1: Location Map of Lake County



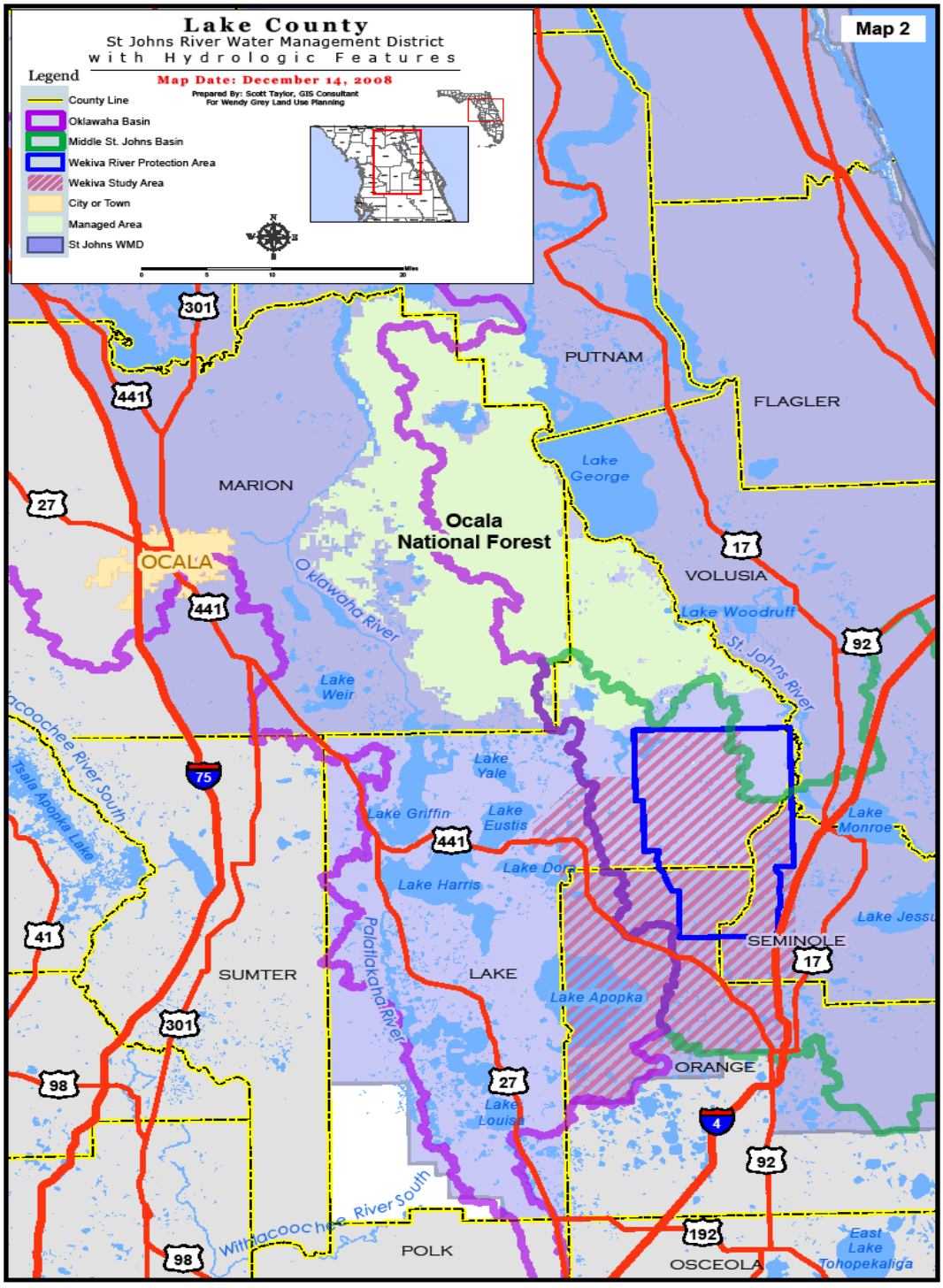
1.3 Water Management District Jurisdictions

Lake County lies within the jurisdictions of two Water Management Districts, the St. Johns River Water Management District (SJRWMD) and the Southwest Florida Water Management District (SWFWMD).

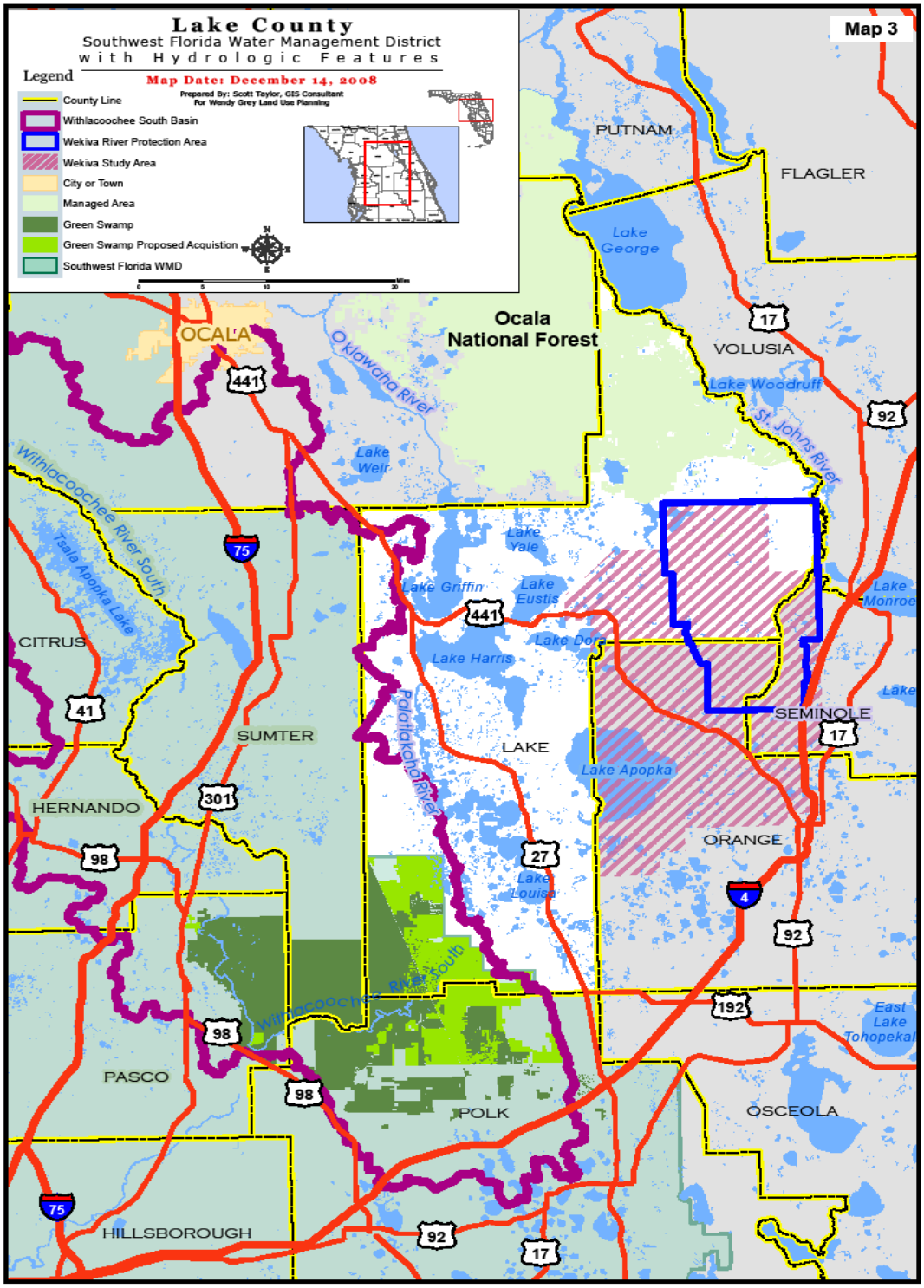
The SJRWMD encompasses most of the County. The eastern portion of the County is in the Middle St. Johns River basin and the central portion within the Ocklawaha River Basin. (See Map 2)

The Green Swamp Area in southernmost Lake County and the region along the western edge within the Withlacoochee River basin are under the jurisdiction of the SWFWMD. (See Map 3) Approximately 5% of the County is within the SWFWMD.

Map 2: St. Johns River Water Management District



Map 3: Southwest Florida Water Management District



1.4 Priority Water Resource Caution Area and Central Florida Coordination Area

1.4.1 Priority Water Resource Caution Area (PWRCA)

Based on its Water Supply Assessment, the St. Johns River Water Management District (SJRWMD) has identified areas where future water supply needs cannot be met without causing unacceptable impacts to water resources and related natural systems. These areas are designated as Priority Water Resource Caution Areas (PWRCAs). The SJRWMD has declared much of Lake County, including all the municipalities within the County as part of a PWRCA. (See Map 4.)

Using the Water Supply Assessment, the SJRWMD prepares a District Water Supply Plan (DWSP). The 2005 DWSP identifies conservation, reclaimed water, and water supply projects that will provide for the needs of the District without causing unacceptable adverse impacts to water resources and related natural systems.

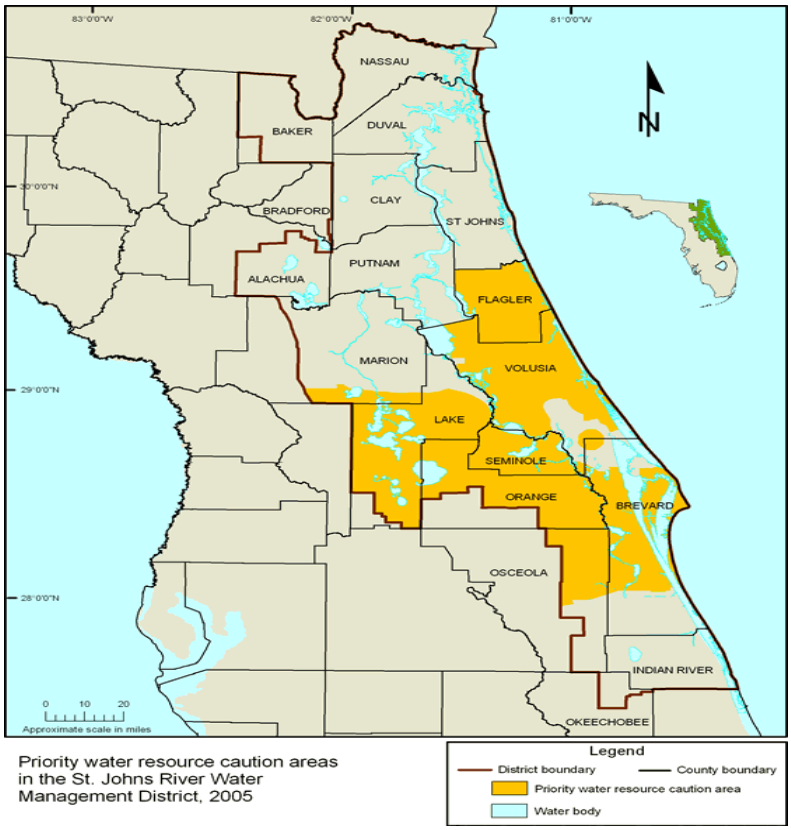
Within a PWCRA, the following requirements apply:

Reuse of reclaimed water from domestic wastewater treatment facilities is required, unless such efforts are environmentally, technically or economically infeasible.

As part of the requirements established in Senate Bill 360, local governments must consider projects in the DWSP as they develop their 10 year water supply plans.

The Southwest Florida Water Management District designates areas where water supply needs cannot be met without causing unacceptable impacts to water resources and related natural systems as Water Use Caution Areas. No areas in that portion of Lake County within the jurisdiction of the SWFWMD are designated as a Caution Area.

Map 4: St. Johns River Water Management District
Priority Water Resource Caution Area



Source: http://www.sjrwmd.com/comprehensiveplanning/PWRCA_map.html

1.4.2 Central Florida Coordination Area (CFCA)

As noted above, Lake County is within the jurisdictions of both the St. Johns River Water Management District and the Southwest Florida Water Management District. The boundaries of these two Districts and of the South Florida Water Management District come together in the Central Florida region. The three Districts recognized that the permitting activities of one District affected the other two and so have agreed to coordinate their activities within an area called the Central Florida Coordination Area. Southern Lake County, including Mascotte, Groveland, Minneola, and Montverde are within the Central Florida Coordination Area (see Map 5).

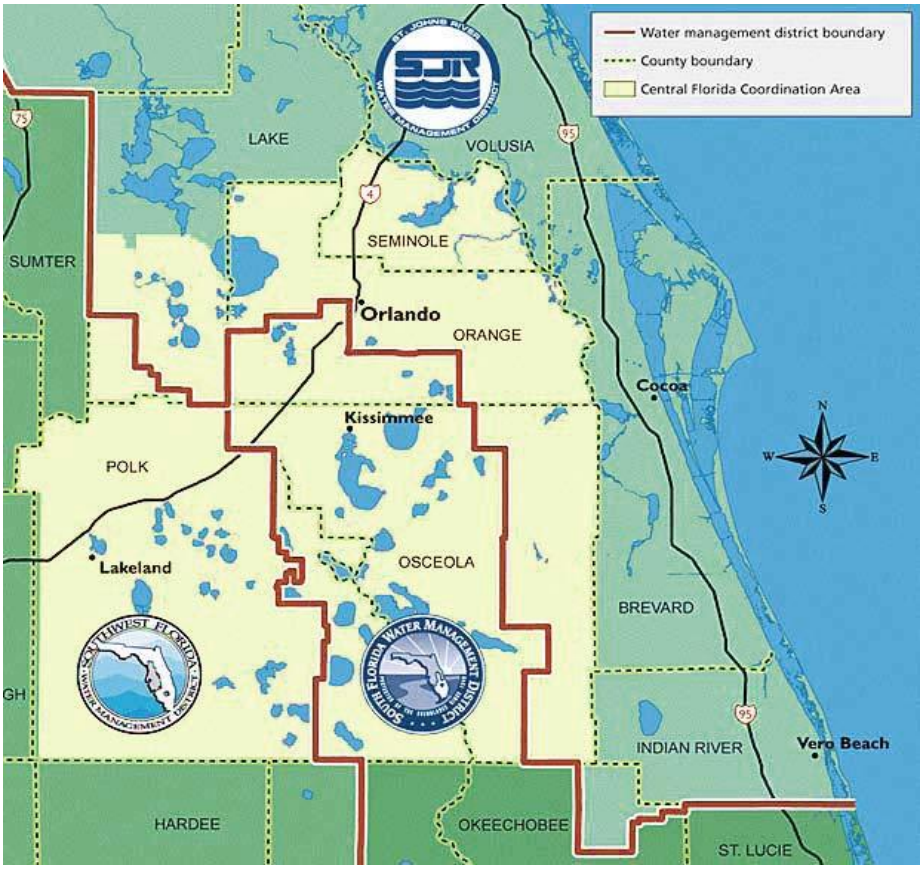
Concerns that traditional water supplies in Central Florida cannot meet potable water demand through 2025 led the three Districts to develop the *Central Florida Coordination Area Action Plan.* The Districts have concluded that water supply

planning and regulation within the Central Florida Coordination Area must be coordinated and consistent in order to meet future demand.

The Districts anticipate that, within the CFCA, traditional fresh groundwater sources will be impacted to the degree that unacceptable harm will occur to area water resources if development of groundwater supplies for public water supply continues. In December 2007, the three Districts adopted new water use rules to address this situation. New permits are limited in duration to 2013, and withdrawals are restricted to no more than the quantity needed to meet 2013 demand. Plans are required for alternative water supplies to meet increased potable water demand beyond that time.

Though the new rules target public water suppliers, no quantity increases will be granted to other water suppliers applying for long term permits. Rules will not affect Domestic Self-Supply.

Map 5: Central Florida Coordination Area



Source: http://www.swfwmd.state.fl.us/projects/cfca/

1.5 Water Supply Sources

Lake County is not a water supplier. Water supply in the County is provided by a utility provider (either municipally or privately owned) or through wells (also referred to as Domestic Self-Supply, or DSS.) In this section, data is provided on water providers in the County.

1.5.1 Municipal Water Suppliers

Thirteen of the 14 incorporated towns and cities in Lake County are public water providers with established service areas. Only Astatula is not a water provider. All of the municipalities are within the St. Johns River Water Management District (SJRWMD). Table 1 shows all municipal providers. The five southernmost municipalities, starred below, also fall within the Central Florida Coordination Area (CFCA) where groundwater sources will become restricted by 2013.

Table 1: Municipal Suppliers (* within CFCA)	
City of Clermont*	Mascotte*
City of Eustis	City of Minneola*
City of Fruitland Park	Town of Montverde*
City of Groveland*	City of Mount Dora
Town of Howey in the Hills	City of Tavares
Town of Lady Lake	City of Umatilla
City of Leesburg	

Source: Lake County Water Supply Plan, Water Resource Associates, Inc., 09/07

All the municipal water suppliers are required to amend their Comprehensive Plans to meet the water supply planning requirements of Senate Bill 360. The Florida Department of Community Affairs (DCA) established a schedule for the adoption of the required plan amendments. Lake County and all municipalities except Fruitland Park and Umatilla were required to adopt plan amendments by August 7, 2007. Fruitland Park and Umatilla were required to adopt plan amendments by April 10, 2008.

To date, two Lake County municipalities, Groveland and Tavares, have adopted water supply plan amendments that have been found in compliance by DCA. Four others, Mt. Dora, Minneola, and Umatilla have submitted plan amendments to DCA.

Although most local governments are not yet in compliance with the water supply planning requirements, there has been a coordinated water supply planning effort in the County. The Alliance is a cooperative entity comprised of Lake County and all of the municipalities in the County, except Astatula. The Alliance, with the financial assistance of the SJRWMD, prepared a Water Supply Plan that assessed water supply and demand and potential water supply projects through the year 2030[3]. The Plan was completed in September 2007. Data and analysis from the Lake County Water Supply Plan is used in this report where more specific municipal data is unavailable.

The LCWSP provides an overview of the water supply situation in Lake County through the year 2030. Technical Memorandum 3 of the LCWSP projects water demand. Those demand projections are reported below in Table 2.

Table 2: Projected Water Demand for Municipal Lake County Water Suppliers.

	MUNICIPAL PROVIDER DEMAND PROJECTIONS (mgd)					
	2005	*2010*	*2015*	*2020*	*2025*	*2030*
Total Municipal Supplier Demand	26.06	33.12	37.92	44.39	48.35	52.57

Notes: Data does not include Astatula

Source: *Lake County Water Supply Plan*, Water Research Associates, Inc., September 2007.

The Lake County Water Supply Plan also projected groundwater demand deficits in the year 2030. Based on the assumptions, these deficits ranged from 13.99 million gallons per day (mgd) to 22.31 mgd.[4] Table 3 depicts the acres of unincorporated Lake County within the service area boundaries of municipal providers but outside the particular municipal boundary.

Table 3: Acreage of Unincorporated Lake County within Municipal Provider Service Area

MUNICIPAL PROVIDER	UNINCORPORATED LAKE COUNTY (Acres)
Clermont	13,708.7
Eustis	9,239.2
Fruitland Park	4,460.3
Groveland	17,521.1
Howey in the Hills	11,028.3

[3] The Alliance document is titled *The Lake County Water Supply Plan*. To avoid confusion between that report and this document, the Alliance report will be referred to as the *Alliance Water Supply Plan*.

[4] Alliance Water Supply Plan, page ER-22.

Table 3: Acreage of Unincorporated Lake County within Municipal Provider Service Area	
MUNICIPAL PROVIDER	UNINCORPORATED LAKE COUNTY (Acres)
Lady Lake	14,256.3
Leesburg	31,930.0
Mascotte	12,567.2
Minneola	12,910.8
Montverde	3,715.7
Mount Dora	8,187.4
Tavares	9,620.9
Umatilla	21,129.0
TOTAL ACRES	170,274.8

Source: Lake County GIS; SJRWMD, December 2008. These figures represent net acreage, exclusive of water bodies, rights-of-way, etc.)

For purposes of this analysis, it is assumed that the 170,275 acres in unincorporated Lake County will be served by these municipal providers. An analysis of Comprehensive Plan policies addressing requirements to connect to central water is provided in Chapter 2.

1.5.2 Private Water Suppliers

There are currently 30 private water suppliers serving Lake County. They are listed in Table 4. Nine of the providers (starred below) are included within the CFCA where groundwater withdrawals become restricted in 2013. Private providers are not subject to the water supply planning requirements of Senate Bill 360. No additional information was provided to Lake County by these providers.

Table 4: Private Water Suppliers (* within CFCA)	
AQUA SOURCE INC	MISSION GOLF & TENNIS RESORT
AQUA UTILITIES FLORIDA	MONTVERDE MOBIL HOME SUBDIVISION*
ASTOR - ASTOR PARK WATER ASSOC INC	OAK SPRINGS MHP
CLERBROOK GOLF & RV RESORT*	PARK AT WOLF BRANCH OAKS
COLINA BAY WATER COMPANY*	PENNBROOKE UTILITIES
FAIRWAYS MT PLYMOUTH PARTNERS LTD	PINE ISLAND PUD
GENERAL UTILITIES CORP	PLANTATION AT LEESBURG

Table 4: Private Water Suppliers (* within CFCA)	
GINN-LA PINE ISLAND II LLP*	SOUTHLAKE UTILITIES INC*
HARBOR HILLS UTILITIES LTD	SPRINGS PARK AREA INC
HAWTHORNE AT LEESBURG	SUNLAKE ESTATES
HOMETOWN AMERICA*	THOUSAND TRAILS INC*
LAKE GRIFFIN ISLES	UPSON DOWNS L P
LAKE UTILITY SERVICES INC*	WATER OAK UTILITIES INC
LAKEVIEW TERRACE RETIREMENT SERVICES INC	WEDGEWOOD HOMEOWNERS ASSOC INC
MID FLORIDA LAKES	WOODLANDS CHURCH LAKE LLC*

SOURCE: SJRWMD, Division of Water Supply Management, 2008

Technical Memorandum 3 of the LCWSP includes projections of private supplier demand through 2030. This data is shown in Table 5.

Table 5: Projected Water Demand for Private Lake County Water Suppliers						
	PRIVATE PROVIDER DEMAND PROJECTIONS (mgd)					
	2005	*2010*	*2015*	*2020*	*2025*	*2030*
Total Private Supplier Demand	18.86	22.31	25.32	28.23	31.31	32.91

Source: *Lake County Water Supply Plan*, Water Research Associates, Inc., September 2007.

The projected groundwater deficit for private supplies (supplying more than .1 mgd) ranges from 8.44 mgd to 14.27 mgd, depending on the assumption used in the calculation.[5]

Table 6 reports the acreages of unincorporated Lake County within private utility service areas. A total of 55,128 acres of unincorporated Lake County are served by private providers.

Table 6: Acreage of Unincorporated Lake County within Private Provider Service Area	
PRIVATE PROVIDER	UNINCORPORATED LAKE COUNTY (Acres)
AQUA SOURCE INC	140.68
AQUA UTILITIES FLORIDA	2,375.39

[5] *Lake County Water Supply Plan*, Lake County Water Alliance, page ER-22.

Table 6: Acreage of Unincorporated Lake County within Private Provider Service Area	
PRIVATE PROVIDER	UNINCORPORATED LAKE COUNTY (Acres)
ASTOR - ASTOR PARK WATER ASSOC INC	11,930.32
CLERBROOK GOLF & RV RESORT	325.10
COLINA BAY WATER COMPANY	79.83
FAIRWAYS MT PLYMOUTH PARTNERS LTD	95.36
GENERAL UTILITIES CORP	274.41
GINN-LA PINE ISLAND II LLLP	1,537.39
HARBOR HILLS UTILITIES LTD	758.34
HAWTHORNE AT LEESBURG	286.70
HOMETOWN AMERICA	39.31
LAKE GRIFFIN ISLES	97.12
LAKE UTILITY SERVICES INC	28,704.15
LAKEVIEW TERRACE RETIREMENT SERVICES INC	3.21
MID FLORIDA LAKES	224.33
MISSION GOLF & TENNIS RESORT	408.48
MONTVERDE MOBIL HOME SUBDIVISION	102.04
OAK SPRINGS MHP	67.65
PARK AT WOLF BRANCH OAKS	113.96
PENNBROOKE UTILITIES	565.61
PINE ISLAND PUD	1,536.00
PLANTATION AT LEESBURG	1,324.88
SOUTHLAKE UTILITIES INC	2,616.01
SPRINGS PARK AREA INC	88.67
SUNLAKE ESTATES	161.89
THOUSAND TRAILS INC	233.99
UPSON DOWNS L P	638.77
WATER OAK UTILITIES INC	4.87
WEDGEWOOD HOMEOWNERS ASSOC INC	187.13
WOODLANDS CHURCH LAKE LLC	206.64
TOTAL ACRES	**55,128.24**

Source: Lake County GIS; SJRWMD, December 2008. . These figures represent net acreage, exclusive of water bodies, rights-of-way, etc.)

1.5.3 Domestic Self-Supply (DSS)

Approximately 52% of unincorporated Lake County is outside the service areas of public or private providers and served by wells, or Domestic Self-Supply (DSS). The large size of the area relying on DSS is due primarily to the acreage of the County within the Ocala National Forest, the Wekiva River Protection Area, and the Green Swamp Area of Critical State Concern, areas with no development or development at very low densities. DSS is also the water source in large areas inside of municipal utility service boundaries where central water is not yet available or will not be cost feasible due to very low density or location with respect to distribution systems.

Impacts from DSS withdrawals are not routinely evaluated since withdrawals fall below consumptive use permitting thresholds. As all areas of Lake County continue to develop, the accumulated water withdrawal from Domestic Self-Supply wells has an increasing significance in water supply planning. These impacts will have a special importance in the Central Florida Cooperation Area where groundwater supplies are expected to reach critical levels within the planning horizon.

The LCWSP projected that Domestic Self-Supply will increase from 13.65 mgd in 2005 to 38.00 mgd in 2030. This represents an increase of 24.35 mgd or 178% as an additional 102,885 DSS users require fresh groundwater supplies.[6] A more recent analysis by the SJRWMD, entitled *Potential Impacts of Increases in Domestic Self-Supply Water Use in East-Central Florida, for the Period 2013-2030 (Special Publication SJ2008-SP28),* November 14, 2008, estimated that 2030 DSS would increase to 43.6 mgd or by 219%.

The SJRWMD determined that such an increase in DSS water usage would negatively affect water levels in both the Floridan and the surficial aquifers and that numerous wetlands, lakes and springs would suffer unacceptable impacts. The District estimated this water use increase will result in water level declines for the surficial aquifer ranging up to 1.4 ft and declines ranging up to 2.2 ft for the Floridan aquifer. Analysis of the likelihood of harm to native vegetation (primarily wetland vegetation) indicates that 9,248 acres in Lake County are likely to experience higher to moderate likelihood of harm if projected DSS water use increases occur from 2013-2030 Similarly, the analysis of the likelihood of harm to lakes indicates that about 3,052 acres are likely to experience high likelihood of harm.

SJRWMD assessed the hydrologic impact of the estimated water-level declines to determine if water levels in lakes and flow from springs would fall below established and recommended Minimum Flows and Levels (MFLs) for lakes and springs, and

[6] *Lake County Water Supply Plan*, Water Resource Associates, Inc., September 2007, Tech Memo 4, pages 1-4,7.

screening flows for springs. Based on this assessment three lakes for which MFLs are established, Lakes Cherry, Louisa, and Minneola are projected to experience water levels lower than the established MFLs for these lakes if the projected increases in DSS water use occur. In addition to these lakes, five other lakes (Apshawa North, Apshawa South, Brantley, Prevatt, and Sylvan) are projected to have water levels that would already be below established MFLs by 2013 if water use projections in all water use categories occur. Projected DSS increases from 2013-2030, if they occur, would cause water levels in these lakes to fall even further below the established MFLs.

No springs in Lake County for which MFLs have been established are projected to experience flows below established MFLs. However, one spring in Lake County, Holiday Spring, is projected to experience a decline in flow of greater than 15% below the long-term median flow for the spring (screening flow).

Conservation measures, which are becoming an integral part of water supply planning, are difficult to apply to Domestic Self-Supply users. Therefore, the LCWSP did not anticipate reductions in per capita demand for the Domestic Self-Supply user group. Given the projected impacts to aquifers, lakes, and springs, the County believes the District's current restrictions may be inadequate.

Public water service providers are concerned that increasing DSS withdrawals will significantly influence fresh groundwater availability and force greater reliance on alternative water supplies to meet the demand within their service area boundaries. Conversely, sufficient supplies must be available to meet the needs of users who do not have access to a central water system.

As noted above, DSS is a water source not only for development outside of a designated municipal utility service area, but within some utility service areas as well. Currently, there is no evidence that all municipalities in Lake County have water supply and water supply facilities to serve the projected population within their utility service areas. This information may become available as the municipal water supply plans are completed. Lake County will monitor the development of these plans and assess their impact on future development in the unincorporated area.

CHAPTER 2: OVERVIEW OF WATER SUPPLY SOURCES

2.1 Ground Water

Groundwater is the primary source of water supply in Lake County. As noted elsewhere, portions of the County, particularly those within the current limits of the Central Florida Caution Area, are facing near term limits on the use of groundwater to meet future water supply needs. The LCWSP projected the total groundwater demand deficit for the year 2030 will range between 43 mgd and 56 mgd, depending on the assumptions used in the projections.[1]

2.2 Reuse [s. 163.3177(6)(c), F.S.]

Beneficial reuse replaces potable water and increases the water supply available to meet future demand. The LCWSP projected that up to 10.61 million gallons per day (mgd) of reuse could be provided by Alliance members by 2030. This represents an increase of over 50% of current reuse. This amount could meet up to 25% of the projected increase in demand between 2005 and 2030.[2] The LCWSP also projected that non-Alliance members (private providers) could provide 2.04 mgd of beneficial reuse. The amount of beneficial reuse supplied by non-Alliance providers is expected to be stay relatively limited because of their smaller size.

The LCWSP identified a number of projects that could provide additional reuse. The following short-term projects were identified.[3]

- Clermont Reclaimed and Stormwater System Expansion Project
- Clermont Western Wastewater Treatment Facility – Conversion to Reuse
- Clermont Western Wastewater Treatment Facility (WWTF) – Flow Diversion to Eastern WWTF
- Clermont and the City of Orlando Reuse Partnership
- Eustis Reclaimed Water System Expansion and Augmentation Project
- Lady Lake Reclaimed Water System Project, Phase II
- Lake Utility Services Lake Groves WWTF Reclaimed Water System Expansion
- Leesburg Reclaimed Water Reuse Project
- County Club Golf Course Reclaimed Water Project.

[1] *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007, Tech Memo 4, page 1-5.

[2] *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007, Page ER-17.

[3] See *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007, Technical Memo #2, Table 2-5 and pages 4-3. Projects referenced in the *Lake County Water Supply Plan* that pertain to a local government that has prepared its water supply plan are not included in this list. See Section 2.6 for those Capital Projects.

Table 7: Alliance Current and Projected Reuse and Non-Potable Flows

	Current and Projected Wastewater Flow			Current or Proposed Reuse Flow and Distribution(1), (2)			Projected Reuse Flow and Distribution(3)			
	2005	2030	2005 - 2030	2005	2005	2005	2030	2030	2030	2005 to 2030
Municipality/ Utility	Estimated Flow	Projected Flow	Increase in Flow	Estimated Non-Beneficial Flow	Estimated Beneficial Flow(4)	Reuse Beneficial Utilization (%)	Projected Non-Beneficial Reuse Flow	Projected Beneficial Reuse Flow	Reuse Beneficial Utilization(%)	Available Increase in Beneficial Reuse Flow
Clermont	1.99	2.79	0.80	0.99	1.00	50%	1.39	1.39	50%	0.39
Eustis	1.26	3.49	2.23	0.70	0.56	44%	1.75	1.75	50%	1.19
Groveland	0.15	0.39	0.24	0.10	0.05	33%	0.20	0.20	50%	0.15
Leesburg	3.40	6.90	3.50	2.90	0.50	15%	3.45	3.45	50%	2.95
Minneola	N/A	0.60	0.60	N/A	0.30	N/A	0.30	0.30	50%	0.00
Mount Dora	1.19	3.10	1.91	0.44	0.75	63%	1.55	1.55	50%	0.80
Mascotte	N/A	0.70	0.70	0.10	0.10	50%	0.35	0.35	50%	0.25
Montverde	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tavares	1.39	2.31	0.92	0.70	0.70	50%	1.15	1.15	50%	0.46
Umatilla	0.20	0.40	0.20	0.20	0.00	0%	0.20	0.20	50%	0.20
Fruitland Park	N/A	0.10	0.10	N/A	N/A	N/A	0.05	0.05	50%	0.05
Lady Lake	N/A	0.45	0.45	N/A	0.15	N/A	0.23	0.23	50%	0.08
Howey-in the-Hills	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL	**9.58**	**21.23**	**11.65**	**6.13**	**4.11**	**40%**	**10.61**	**10.61**	**50%**	**6.51**

SOURCE: *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007, Tech Memo 3, Table 3-1.

NOTES:

(1) Beneficial reuse water is defined as water that offsets potable water demands. Example of beneficial reuse include golf course and public access area irrigation. Sprayfields and RIBs are considered non-beneficial reuse.

(2) Includes reuse waters currently planned for capture and/or treatment to public access reuse standards, and beneficial distribution of these waters to existing demands.

(3) Surface water is not considered a feasible reuse supplementation source for individual Alliance members, due to the cost of treatment required and potential resource availability constraints.

(4) From FDEP's 2005 Reuse Inventory.

Table 8: Private Utility Current and Projected Reuse and Non-Potable Flows

	Current and Projected Wastewater Flow			Current Reuse Flow and Distribution(1)			Projected Reuse Flow and Distribution			
	2005	2030	2005-2030	2005	2005	2005	2030	2030	2030	2030
Municipality / Utility	Estimated Flow	Projected Flow	Increase in Flow	Estimated Non-Beneficial Reuse Flow	Estimated Beneficial Reuse (2)	Reuse Beneficial Utilization (%)	Projected Non-Beneficial Reuse	Projected Beneficial Reuse	Reuse Beneficial Utilization (%)	Available Increase in Beneficial Reuse
Lake Correctional Institute	0.13	0.26	0.13	0.13	0.00	0%	0.26	0.00	0%	0.00
Lake Groves Utilities STP	0.31	0.49	0.18	0.31	0.00	0%	0.49	0.00	0%	0.00
Mid-Florida Lakes	0.16	0.17	0.01	0.16	0.00	0%	0.17	0.00	0%	0.00
Pennbrooke WWTF	0.09	0.10	0.01	0.00	0.09	100%	0.00	0.10	100%	0.01
Plantation @ Leesburg	0.20	0.23	0.03	0.04	0.16	80%	0.05	0.19	80%	0.03
Quail Valley	0.03	0.06	0.03	0.03	0.00	0%	0.06	0.00	0%	0.00
Southlake Community	0.56	1.83	1.27	0.56	0.00	0%	0.91	0.91	50%	0.91
St. Johns - Astor Park	0.11	0.17	0.06	0.11	0.00	0%	0.17	0.00	0%	0.00
Sunshine Parkway	0.08	0.16	0.08	0.08	0.00	0%	0.16	0.00	0%	0.00
Thousand Trails	0.02	0.04	0.02	0.02	0.00	0%	0.04	0.00	0%	0.00
Villages	1.48	1.69	0.21	0.70	0.78	53%	0.84	0.84	50%	0.06
Water Oak Estates	0.06	0.07	0.01	0.06	0.00	0%	0.07	0.00	0%	0.00
Clerbrook RV Resorts	0.05	0.05	0.00	0.05	0.00	0%	0.05	0.00	0%	0.00
Oak Spring MHP	0.04	0.05	0.01	0.04	0.00	0%	0.05	0.00	0%	0.00
TOTAL	**3.21**	**5.20**	**1.98**	**2.18**	**1.03**	**32%**	**3.16**	**2.04**	**39%**	**1.01**

(1) Beneficial reuse water is defined as water that offsets potable water demands. Example of beneficial reuse include golf course and public access area irrigation. Sprayfields and RIBs are considered non-beneficial reuse.

(2) From FDEP's 2005 Reuse Inventory.

2.3 Alternative Water Supply (AWS) [s. 163.3177(6)(c), F.S.]

As was discussed in Chapter 1, most of Lake County is within a Priority Water Resource Caution Area (see Map 4). The St Johns River Water Management District (SJRWMD) has determined that by 2013 groundwater supplies will not be able to meet the water supply demands of this area without causing unacceptable impacts to water resources and related natural systems. As a result, municipalities will need to identify alternative water supplies (AWS) as part of their long term plans.

Since the development of alternative water supply projects is extremely costly, it is generally considered a water supply source of "last resort." The LCWSP contains an analysis that demonstrates that the water demand increase between 2005 and 2030 of 26.5 MGD can potentially be met through a number of methods other than AWS. These methods include continued use of allocated groundwater supplies and a limited amount of new groundwater allocations; conservation, beneficial reuse, and the conversion of agricultural land to residential use[1]. Since this analysis is based on a number of assumptions subject to change, AWS needs to be considered an option for meeting future demand.

Lake County lies within the basins of three major river systems, making surface water the most feasible alternative water supply. The LCWSP identified thirteen potential AWS projects. After a preliminary screening, six projects were considered to be the most viable:

- St. Johns River Yankee Lake Project
- Lower Ocklawaha River – below the confluence with Silver River
- St. Johns River near Deland
- Lake Panasoffkee
- Withlacoochee River at Holder
- Withlacoochee River at Lake Rousseau[2]

In addition to the projects identified by the LCWSP, the 2005 St. Johns River Water Management District Water Supply Plan (DWSP) includes alternative water supply projects that local governments should consider when preparing their 10 year water supply plans. A list of these projects is included in the SJRWMD report entitled *Water Supply Assessment and Water Supply Plan: Planning for Water Supply Needs Through 2025,* dated August 2008. Given the scope of these project, it is anticipated that several suppliers will need to coordinate on these projects if they are to be implemented

The DWSP identifies two candidate Ocklawaha River watershed surface water withdrawal sites. The first is within the upper basin and was included in the alternative water supply strategies investigation (CH2M HILL 1996). An estimate of potential yield was made based on long-term flow records available from Haines Creek, which connects Lake Eustis to Lake

[1] *Lake County Water Supply Plan*, Lake County Water Alliance, September 2007, Page ER-23.

[2] See *Lake County Water Supply Plan*, Lake County Water Alliance, September 2007, Pages ER-22-23.

Griffin in northern Lake County. Although Haines Creek flow records were used in the preliminary water supply analysis, there is considerable flexibility in the location of the actual water supply withdrawal points. They could be located anywhere in the Upper Ocklawaha River Basin in northern Lake County. A potential water supply yield of 14 mgd has been estimated for the Upper Ocklawaha River Basin.

The upper Ocklawaha River has been identified as a likely source of water to supplement reclaimed water supplying reuse systems; however, to date, the District has not identified the Upper Ocklawaha as one of its preferred projects. The second Ocklawaha River site, in the lower reaches in Putnam County is a more likely candidate for development.

SJRWMD has been working on the restoration of Lake Apopka since 1985. More recently, SJRWMD has identified the need for additional water supplies in the vicinity of the lake. The City of Apopka has identified Lake Apopka as a potential source of water to provide water to its reclaimed water service area. Apopka has identified an immediate need for approximately 2 mgd average annual daily flow (AADF) to augment the city's reclaimed water system. Apopka estimates that it will need an additional supply of approximately 8 mgd AADF for its reclaimed water system by the year 2010 and an additional 16 mgd by 2020. The city of Clermont has also expressed an interest in developing a reclaimed water supply from Lake Apopka. District staff have begun evaluating the potential for developing water supplies from Lake Apopka while still achieving lake restoration goals. The first phase of the Lake Apopka Basin Water Resource Development Project will include evaluation of the potential water supply yield from the lake. It is anticipated that project work components will include:

- Hydrologic modeling
- Evaluation of alternative lake regulation schedules
- Evaluation of storage augmentation options
- Evaluation of potential impacts of management options
- Identification of potential water users including the timing and locations of withdrawals

Should a suitable project be identified as a result of this evaluation phase, a project implementation phase will likely be recommended. The details of this implementation phase would be reported in updates to DWSP 2005 and in future water resource development work program documents.

The District has developed or provided assistance for other alternative water supply projects within the County, primarily reuse projects in partnership with municipal or private wastewater utilities. These projects are addressed in the DWSP and other District documents.

2.4 Conservation

The LCWSP analyzes the potential impact from reduced water demand. The Plan projects that the Alliance members could reduce the total potable water demand through 2030 from 26.5 mgd to 20.3 mgd, a decrease of 6.2 mgd or 23%. The Plan notes that the median gross residential per capita rate of 178 gallons per capita per day (gpcpd) among Alliance members exceeds the St. Johns River Water Management District goal of 150 gpcpd. The Plan further notes that a rate of 120 to 130 gpcpd is possible. However, Alliance members would need to more aggressively employ best management practices.[3]. The Plan summarizes current and proposed demand reduction practices of Alliance members and projects potential demand reduction ranges[4] The Plan does not project a reduced demand for potable water for domestic self-supplies, since Domestic Self-Supply is unregulated.

The County believes that the St. Johns River, the Ocklawaha River, and their tributaries are outstanding natural resources of irreplaceable value to Lake County and the people of Florida. The St. Johns River Water Management District (SJRWMD) is currently considering plans to withdraw hundreds of millions of gallons per day of surface water from the St. Johns River and Ocklawaha River as an "alternate water supply," however, needed environmental studies evaluating the ecological impacts to the river have not been completed, and Minimum Flows and Levels have not been established for all water bodies within the District affected by plans for surface water withdrawal. The County believes the SJRWMD has not met the intent of the 2020 Water Supply Plan adopted by its Board of Governors, which requires meaningful implementation of water conservation measures before developing other alternative water supplies.

Developing the associated infrastructure for withdrawal, treatment and transmission of surface water from the St. Johns River and Ocklawaha River is estimated to cost billions of dollars, an expense to be borne by Central Florida through water bill rates that are expected to be many times higher than today; thereby placing a burden upon residents, families, businesses and the economy.

Florida has one of the highest per-capita rates of domestic water use in the country; a number that has increased dramatically from 102 gallons per day in 1950 to 174 gallons per day in 2000 for residents served by public supply. Over 50% of the per capita domestic use of water within the SJRWMD occurs outside of the home for the inefficient irrigation of lawns and landscaping. Significant water savings can be realized to meet future needs with less financial burden through meaningful conservation programs, including the effective regulation and enforcement of water use, drought-tolerant landscaping, low-impact development practices, and the limitation of growth to sustainable levels, compatible with the protection of natural resources and quality of life.

Meaningful, mandatory, and enforceable conservation programs have not been established in Central Florida or within the SJRWMD to yield an effective reduction in the per capita domestic use of water. If efforts to withdraw water from the St. Johns River system or Ocklawaha River system prevail and a dependence on that supply is created, the reversal of such water withdrawal, regardless of environmental impacts, will be difficult if not impossible to achieve;

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[3] *Lake County Water Supply Plan*, Lake County Water Alliance, September 2007, Technical Memo 3, Page 2-6.

[4] *Lake County Water Supply Plan*, Lake County Water Alliance, September 2007, Technical Memo 3.

Lake County opposes the withdrawal of water from the St. Johns River, the Ocklawaha River, or their tributaries for public supply. The County finds that costly efforts to increase available public water supplies by withdrawing from the St. Johns River system or Ocklawaha River system will have the deleterious effect of perpetuating the ongoing wasteful use of water from all sources, and thus contravene necessary change in behaviors and practices required to ensure environmental sustainability and economic health. Such withdrawals are likely to impact long-term lake levels within the County thereby affecting the value and usability of thousands of properties. Such withdrawals also may impact shallow aquifers thereby affecting the nearly one-third of homes in the County using Domestic Self-Supply as their sole source of potable water.

Lake County urges the SJRWMD and local governments, including its municipalities, to fully exercise their respective authorities to implement aggressive water conservation programs and regulatory measures, coupled with necessary enforcement and responsible growth management, in order to maximize conservation as an effective "alternative water supply."

CHAPTER 3: MUNICIPAL POTABLE WATER SUPPLY INVENTORY

3.1 Status of Municipal Water Supply Plans

All the municipal water suppliers within a priority water resource caution area are required to amend their Comprehensive Plans to meet the water supply planning requirements of Senate Bill 360. The Florida Department of Community Affairs (DCA) established a schedule for the adoption of the required plan amendments. Lake County and all municipalities except Fruitland Park and Umatilla were required to adopt plan amendments by August 7, 2007. Fruitland Park and Umatilla were required to adopt plan amendments by April 10, 2008.

The status of these amendments is as follows:

- The City of Groveland has adopted the required water supply plan amendments. These amendments have been found to be in compliance by the Florida Department of Community Affairs (DCA).
- The City of Tavares has adopted the required water supply plan amendments. These amendments have been found to be in compliance by the DCA.
- The City of Minneola has transmitted its amendment. It is under review at DCA.
- The City of Mount Dora has transmitted its amendment. It is under review at DCA.
- The City of Umatilla has transmitted its amendment. It is under review at DCA.

Approximately 29% of Lake County is served by municipal providers. It was intended that data from the municipal providers' water supply plans provide a significant basis for the Lake County water supply plan. Since only limited data is available from the municipalities, it is supplemented by data and analysis from the LCWSP.

3.2 Consumptive Use Permit

Table 9 shows the status of each municipality's Consumptive Use Permit.

Table 9: Municipal Water Supply Consumptive Use Permits					
MUNICIPALITY	PERMIT #	EXPIRATION DATE	ACTUAL AVG PUMPAGE (MGY) 2000-2005	TOTAL PERMITTED AMOUNT (MGY)	WATER SOURCE
CLERMONT	2478	9/10/2022	1,268.35	2,692.97	Floridan Aquifer
EUSTIS	2634	3/13/2012	1,021.90	1,387.11	Ground
FRUITLAND PARK	2482	6/13/2008	179.40	288.35	Floridan Aquifer
GROVELAND[1]	2913 & 2796	12/07/2014	471.50	827.10	Ground, surface, reclaimed
HOWEY IN THE HILLS	2596	11/11/2009	Not available	128.48	Floridan Aquifer
LADY LAKE	50049	7/11/2026	167.31	250.78	Floridan Aquifer
LEESBURG	94	7/10/2004	2,100.07	3,332.70	Floridan Aquifer
MASCOTTE	2453	10/9/2013	125.80	133.60	Floridan Aquifer
MINNEOLA	2886	2/9/2010	388.77	916.15	Floridan Aquifer
MONTVERDE	2671	2/8/2009	125.25	127.91	Ground
MOUNT DORA	50147	12/13/2025	947.34	1,842.52	Floridan Aquifer
TAVARES (4)	2765	10/7/2007	641.90	1,301.33	Floridan Aquifer
UMATILLA	2646	2/13/2006	142.53	193.82	Floridan Aquifer

Source: *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007, Technical Memo 2, Table 1-6, except as noted

(4) *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007 and SJRWMD CUP # 2765

With the exceptions of Clermont, Lady Lake, and Mount Dora, all municipalities are either currently renewing their permits or will soon begin the renewal process. The permitting process is a key mechanism for implementing the municipal water supply plans.

[1] Groveland data provided by City of Groveland. Actual average pumpage is for years 2004-2007.

3.3 Level of Service Standard

Table 10 shows the potable water Level of Service Standard adopted by each municipality in its Comprehensive Plan and the average level of service based on historical use.

Table 10: Municipal Potable Water Level of Service Standards			
MUNICIPAL PROVIDER	AVERAGE LEVEL OF SERVICE 1995-2005 (GPCPD)	ADOPTED LEVEL OF SERVICE STANDARD	
		RESIDENTIAL	NON-RESIDENTIAL
City of Clermont	216	220 gallons per capita per day	
City of Eustis	124	140 gallons per capita per day	
City of Fruitland Park	200	120 gallons per capita per day	
City of Groveland	112	250 gallons per household per day	1,000 gallons per acre
Howey in the Hills	229	294.3 gallons per capita per day	
Town of Lady Lake	117	100 gallons per capita per day	850 gallons per acre
City of Leesburg	221	150 gallons per capita per day	
Mascotte	69	106 gallons per capita per day	
City of Minneola	211	165 gallons per capita per day *Note: this is the average LOS between 1999 – 2005, as referenced in the Potable Water Sub Element data and analysis. No adopted LOSS is provided.*	
Town of Montverde	152	126 gallons per resident per day	
City of Mount Dora	194	135 gallons per capita per day	
City of Tavares	178	325 gallons per equivalent residential unit or 184 gallons per capita per day(1)	
City of Umatilla	156	115 gallons per resident per day	850 gallons per acre
MEDIAN ALLIANCE USE	178		

Sources: *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007 Table A-1 and local Comprehensive Plans

Lake County Water Supply Plan, Water Resource Assoc., Inc., September 2007, Technical Memo 4, page 1-2

B&H Consulting, Howey in the Hills

Weaver Boos, Montverde

(1) Level of service for Tavares was calculated as follows: 2000 population was 9,700; 2000 housing units totaled 5,475. This results is an average household size of 1.77. 325/1.77=184 gpd/person.

This data shows that there is a substantial difference in the adopted level of service standards for the municipalities, ranging from 100 to 220 gallons per capita per day. The data also shows that, of the 12 municipalities for which data is available, 7 had actual historic usage rates that exceeded the adopted level of service.

3.4 Projected Need

The LCWSP includes standardized projections of demand for each Alliance member at the time the study was conducted (all local governments except Astatula and Lake County) and for the private providers.

Since the completion of the Plan, five local governments - Groveland, Tavares, Minneola, Mount Dora and Umatilla – have completed work on their water supply plans. The Consultant conducted a comparison of the population and demand projection contained in the LCWSP and in each of the water supply work plans. There was comparable data for three municipalities: Minneola, Groveland, and Mount Dora. The data is summarized in Table 11.

Table 11: Comparison of Lake County Water Supply Plan and Municipal Projections

MUNICIPALITY	MUNICIPAL POPULATION PROJECTION (YEAR)	ALLIANCE POPULATION PROJECTION (YEAR)	% DIFFERENCE	MUNICIPAL DEMAND PROJECTION (MGD)	ALLIANCE DEMAND PROJECTION (MGD)	% DIFFERENCE
Groveland	37,160 (2020)	26.610 (2020)	40%	6.13	2.97	106%
Minneola	37,896 (2025)	16,427 (2025)	130%	6.11	3.47	76%
Mount Dora	39,667 (2025)	29,685 (2025)	34%	9.08	5.77	57%
Tavares	23,981 (2017)	20,169 (2017)	19%	4.71	3.59	31%
Umatilla	37,693 (2030)			5.34		

Sources: Municipal Water Supply Plans and *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007

NOTE: The Alliance 2017 population and water demand projections for Tavares were interpolated to match the date of the City's 2017 projections.

The Umatilla population and potable water demand estimates are for their service area and thus are not comparable to the Alliance projections.

Variations in estimates of population and gross per capita per day use data are the most likely sources of such differences. The disparity between these figures demonstrates the importance of the assumptions used to project future demand. With the understanding of the limitations of the data, the LCWSP projection of future demand is presented in Table 12.

Table 12: Municipal Demand Projections, Lake County Water Supply Plan						
Service Provider	2005	2010	2015	2020	2025	2030
Clermont	5.21	8.13	8.89	9.26	9.56	9.86
Eustis	3.08	3.34	3.78	4.32	4.66	5.09
Fruitland Park	0.73	0.78	0.93	1.01	1.07	1.10
Groveland	1.22	1.66	2.32	2.97	3.69	4.40
Howey in the Hills	0.28	0.31	0.43	0.45	0.50	0.52
Lady Lake	0.55	0.63	0.68	0.70	0.72	0.73
Leesburg	5.69	7.57	8.60	10.92	11.62	12.48
Mascotte	0.41	0.49	0.70	0.96	1.20	1.49
Minneola	1.49	2.06	2.22	3.12	3.47	3.96
Montverde	0.36	0.49	0.63	0.71	0.79	0.81
Mount Dora	3.74	4.01	4.50	5.16	5.77	6.47
Tavares	2.73	3.01	3.42	3.85	4.22	4.53
Umatilla	0.57	0.65	0.79	0.96	1.07	1.14
Alliance Members - Total	26.06	33.12	37.92	44.39	48.35	52.57

Source: *Lake County Water Supply Plan*, Water Resource Assoc., Inc., September 2007

As noted earlier, the LCWSP also projected groundwater demand deficits in the year 2030. Based on the assumptions, these deficits ranged from 13.99 million gallons per day (mgd) to 22.31 mgd.[2] This analysis demonstrates that conservation and alternate water sources will be critical components of the long-term water supply plan for Lake County.

3.5 Ten Year Water Supply Projects

The following tables summarize the capital improvement projects for Groveland, Tavares, Mount Dora, and Umatilla. These are the only municipalities that have prepared capital improvement plans pursuant to the water supply planning requirements of Senate Bill 360.

[2] Alliance Water Supply Plan, page ER-22.

TABLE 13 CITY OF GROVELAND WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS
FISCAL YEARS 2007 -2018

Project Name	Responsible Agency	Funding Source	Estimated Project Cost	Project Purpose	Project Development Phase			
					Planning	*Engineering/ Design*	*Permitting*	*Construction*
REUSE								
Reclaimed water facility at Sampey	City of Groveland	Impact fees	$1,316,000	Add 1 MGD reclaimed water		2011-2012	2011-2012	2012-2013
Reclaimed water facility at Sunshine	City of Groveland	Impact fees	$1,316,000	Add 1 MGD reclaimed water		2012-2013	2012-2013	2013-2014
AWS								
Lower Oklawaha	City of Groveland	Responsible agency	$249,000	Add 11.97 MGD average daily flow for Lake County	2007-2010	2007-2010		
	SJRWMD,	State	(Groveland share)	1.27 MGD for Groveland				
	Cities in Lake County, western Orange County	Groveland Operating Fund grant						

TABLE 13 CITY OF GROVELAND WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS FISCAL YEARS 2007 -2018										
Lower Oklawaha	City of Groveland		Responsible agency;	$204.1 million		Add 11.97 MGD average daily flow for Lake County		2012-2014	2012-2014	2014-2018
	SJRWMD Cities in Lake County, western Orange County		State Grant Groveland Operating fund	(Groveland share not determined)		1,27 MGD for Groveland				

Source: City of Groveland Water Supply Facilities Work Plan, FY 2008/2009 - 2019/2020

Note: Only major capacity improvement projects are recorded. For full Capital Improvement Plan, please see Groveland Water Supply Facilities Work Plan

TABLE 14: CITY OF MOUNT DORA WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS

FISCAL YEARS 2008 -2018

Project Name	Responsible Agency		Funding Source	Estimated Project Cost		Project Purpose	Project Development Phase			
							Phase I	*Phase II*	*Permitting*	*Construction*
AWS										
Coquina Desalination	SJRWMD, City of Deland, Dune Community Development District, Flagler County, City of Leesburg, Marion County, City of Palm Coast, St. Johns County.		Impact fees	$91,222 (City of Mount Dora share)		Provide 4.0 million gallons per day in 2030.	2008-2009			
Coquina Desalination	SJRWMD, City of Deland, Dune Community Development District, Flagler County, City of Leesburg, Marion County, City of Palm Coast, St. Johns County.		Impact fees	$668,728 (City of Mount Dora share)		Provide 4.0 million gallons per day in 2030.		2010-2011		

TABLE 14: CITY OF MOUNT DORA WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS

FISCAL YEARS 2008 -2018

Project Name	Responsible Agency		Funding Source	Estimated Project Cost		Project Purpose	Project Development Phase			
Coquina Desalination	SJRWMD, City of Deland, Dune Community Development District, Flagler County, City of Leesburg, Marion County, City of Palm Coast, St. Johns County.		Not provided	Not provided		Provide 4.0 million gallons per day in 2030.			2012	
Coquina Desalination	SJRWMD, City of Deland, Dune Community Development District, Flagler County, City of Leesburg, Marion County, City of Palm Coast, St. Johns County.		Not provided	Not provided		Provide 4.0 million gallons per day in 2030.				2014-2017
REUSE	City of Mount Dora		Impact fees	$900,000		Provide two 1 million gallon storage tanks for reclaimed water				2008-2010

TABLE 14: CITY OF MOUNT DORA WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS

FISCAL YEARS 2008 -2018

Project Name	Responsible Agency		Funding Source	Estimated Project Cost		Project Purpose	Project Development Phase			
	City of Mount Dora		Impact fees	$6,700,000		Install 43,000 feet of 16" reclaimed water mains in 5 locations				2008-2011

Source: Mount Dora Water Facilities Work Plan, August 15, 2008

Note: Only major capacity improvement projects are recorded. For full Capital Improvement Plan, please see Mount Dora Water Supply Facilities Work Plan

TABLE 15: CITY OF TAVARES WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS
FISCAL YEARS 2008 - 2013

Project Name	Responsible Agency	Funding Source	Estimated Project Cost	Project Purpose	Project Development Phase			
					Planning	*Engineering*	*Permitting*	*Construction*
REUSE	City of Tavares	City of Tavares, Developer Agreements, CBIR grant, SJRWMD grant and FDEP Revolving Fund Loan	$21,000,000	Develop and expand the use of reclaimed water for irrigation purposes as a means of reducing demand for potable water.	2008	2008-2009	2009	2010 (Phase I, with additional phases through 2013)
AWS	City of Tavares	City of Tavares	$100,000	To identify and evaluate the technical feasibility of alternative water sources to meet future demand	2008-2009			

TABLE 15: CITY OF TAVARES WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS FISCAL YEARS 2008 - 2013								
Project Name	Responsible Agency	Funding Source	Estimated Project Cost	Project Purpose	Project Development Phase			
GROUNDWATER	City of Tavares	City of Tavares	$100,000	To renew the City's CUP with the SJRWMD to provide water allocation beyond the current 2010 expiration date.	2008-2009			

Source: Tavares 10 Year Water Facilities Work Plan, July 16, 2008

Note: Only major capacity improvement projects are recorded. For full Capital Improvement Plan, please see Tavares Water Supply Facilities Work Plan

The Department of Community Affairs has objected to this project list. The Department states that the list fails to include two alternative water supply projects that the City has agreed to participate in: the St. John's River near Deland and the Lower Ocklawaha River in Marion County.

City of Umatilla Water Supply Capital Improvement Components and Cost Estimates

The recently completed Water Master Plan has identified the improvements to the City's water supply system for the 2007 – 2030 planning period. These improvements include production, treatment and distribution system expansion. The total estimated capital costs have been calculated on a year by year basis. The following estimated costs are those identified for the 10-year water supply facilities (thru 2018). These estimated costs also will be used to update the City's 5-Year Capital Improvement Plan as required.

The estimated population growth for the 10-year planning period (end of 2007 to 2018) is expected to result in an additional total combined 3,040 equivalent residential connections (residential and commercial) which equates to 7,874 persons (2.59 people/ERU).

Financial Feasibility

The current adopted City Water System Impact Fee is $2,175/ERU. Utilizing this fee through the year 2030, a total of $21,943,575 in year 2008 dollars will be generated.

The City's adopted Water System Impact Fee has been designed to provide the necessary funds to cover the cost of the proposed system improvements. The City will establish the impact fee schedule for the first four (4) years and re-evaluate it at the end of that time. The re-evaluation will allow the City to modify the fee for inflation and revisions to the CIP as needed.

It is intended that the demand created by new connections and the costs associated with the need for Capital Improvements be paid by those users. The timing of the improvements may require financing via other sources to meet the needs and cover the debt until sufficient impact fees are collected; however, the monies generated via the collection of impact fees will ultimately be used to pay for the improvements and associated costs and repay any debt incurred.

TABLE 16 CITY OF Umatilla WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS
FISCAL YEARS 2008 -2030

Year	Water Distribution System	Water Treatment Plant No. 1	Water Treatment Plant No. 2	Water Treatment Plant No. 3	Water Treatment Plant No. 4	Water Treatment Plant No. 5	Total
2008	$0	$0	$0	$0	$0	$0	$0
2009	$420,745	$0	$0	$1,463,360	$0	$0	$1,884,106
2010	$420,745	$0	$0	$1,463,360	$0	$0	$1,884,106
2011	$420,745	$0	$0	$0	$0	$0	$420,745
2012	$420,745	$0	$0	$0	$0	$0	$420,745
2013	$420,745	$0	$0	$0	$0	$0	$420,745

TABLE 16 CITY OF Umatilla WATER SUPPLY CAPITAL IMPROVEMENT PROJECTS FISCAL YEARS 2008 -2030							
Year	Water Distribution System	Water Treatment Plant No. 1	Water Treatment Plant No. 2	Water Treatment Plant No. 3	Water Treatment Plant No. 4	Water Treatment Plant No. 5	Total
2014	$420,745	$0	$0	$0	$0	$0	$420,745
2015	$420,745	$0	$1,105,998	$0	$0	$0	$1,526,743
2016	$420,745	$0	$1,105,998	$0	$0	$0	$1,526,743
2017	$420,745	$0	$0	$0	$0	$0	$420,745
2018	$420,745	$1,195,540	$0	$0	$0	$0	$1,616,285
2019	$420,745	$0	$0	$0	$0	$0	$420,745
2020	$420,745	$0	$0	$0	$0	$0	$420,745
2021	$420,745	$0	$0	$0	$0	$0	$420,745
2022	$420,745	$0	$0	$0	$1,463,360	$0	$1,884,106
2023	$420,745	$0	$0	$0	$1,463,360	$0	$1,884,106
2024	$420,745	$0	$0	$0	$0	$0	$420,745
2025	$420,745	$0	$0	$0	$0	$0	$420,745
2026	$420,745	$0	$0	$0	$0	$0	$420,745
2027	$420,745	$0	$0	$0	$0	$1,463,360	$1,884,106
2028	$420,745	$0	$0	$0	$0	$1,463,360	$1,884,106
2029	$420,745	$0	$0	$0	$0	$0	$420,745
2030	$420,745	$0	$0	$0	$0	$0	$420,745
TOTAL	$9,256,397	$1,195,540	$2,211,996	$2,296,721	$2,296,721	$2,926,721	21,444,096

3.6 Description of facilities: Withdrawal (e.g., wells), storage, treatment distribution, and reuse

3.6.1 City of Mascotte

(Source: City of Mascotte Annual Concurrency Report 20070-02008)

Existing Facilities: The City of Mascotte has two water plants. The Midway Avenue Water Plant consists of one well and one 50,000 gallon elevated water storage tank

Design Capacity of Potable Water Treatment Facilities

There are no records available for the design capacities of the potable water treatment facilities. Because there are no records of design capacity, the City defers to permitted capacity. The FDEP permitted capacity for the Midway Avenue Water Plant is 0.252 million gallons per day (MGD). The Knight Street Water Plant consists of two wells and one 200,000 gallon ground storage tank with high service pumps. The FDEP permitted capacity for the Knight Street Water Plant is 1.223 mgd. There is also a 150,000 gallon elevated storage tank on Elizabeth Street. The permitted capacity of the water system is 1.475 mgd.

Existing potable water storage capabilities of the water system

The water system consists of two elevated storage tanks and one ground storage tank. The combined potable water storage capabilities of the existing water system equal 400,000 gallons.

Existing minimum water pressure

The existing minimum water pressure is 20 pounds per square inch (psi).

Existing capacities or deficiencies of the system

The total water flow for the period (June 2007 – May 2008) equaled 189.012 million gallons. Dividing that number by 365 days, the average daily flow equaled 517,841 gallons. The permitted capacity of the system is 1.475 mgd. There is an existing capacity of about 1 mgd.

Capacities reserved for approved but unbuilt development

Effective with the adoption of the City's Land Development, all new development is required to obtain a Certificate of Concurrency as a part of the final site plan or final subdivision plan process. Capacities reserved as part of the Final Certificate of Concurrency will be added to the existing capacities to determine remaining capacities.

Improvements to be made to the facilities in the current fiscal year by any approved developments pursuant to previous development orders or permits and the impact of such improvements on the existing capacities or deficiencies

There are no improvements to be made to the facilities in the current fiscal year by any approved developments that will have an impact on the existing capacities of the system.

Improvements to be made to the facilities in the current fiscal year by the City of Mascotte and the impact of such improvements on the existing capacities or deficiencies

There are no improvements to be made to the facilities in the current fiscal year by the City of Mascotte that will have an impact on the existing capacities of the system.

3.6.2 City of Mount Dora

SOURCE: Mount Dora Water Facilities Work Plan, Boyle Engineering Corp., (8-15-08).doc

This section presents a facility capacity analysis (FCA) for the City of Mount Dora (City). Existing system surplus and deficiency capacities were developed with respect to the following:

- Permitted well withdrawal allocations
- Well pump capacity
- Storage capacity
- Treatment capacity – corrosion inhibitor, aeration and disinfection
- High Service Pump capacity

Overview of Mount Dora's Existing Potable Water System

The City is located in eastern Lake County, southeast of the City of Eustis, northwest of Orange County, and east of the City of Tavares.

Water service is provided to approximately 24,347 residents (Source: City Planning Dept Water Capacity Analysis Requirements, 2004). In 2007, there were 9,815 (potable and irrigation) water service connections. The potable water service area encompasses 29.7 sq miles.

The existing potable water system facilities are as follows:

- Mount Dora WTP #1 (Well #1-1, Well #1-2, Well #1-3, and Well #1-4)
- Dora Pines WTP #2 (Well #DP-1 and Well # DP-2) (Off-line since 1996)
- 1.50-mgd WWTF #1
- 1.25-mgd WWTF #2

The City currently owns, operates and maintains one (1) water treatment plant (WTP) under the Florida Department of Environmental Protection (FDEP) Potable Water System (PWS) #3350858. The Dora Pines WTP has been off-line since 1996 and the equipment is believed to inoperable given the length of time out of service.

The potable water system (system) comprises its own potable ground water supply (4 wells-Upper Floridan Aquifer), treatment (phosphate iron sequesterant, aeration and liquid chlorine disinfection), pumping (4 high service pumps), storage (2 GSTs and 1 elevated storage tank) and distribution system (2 to 24-inch pipes). The current permitted annual average daily withdrawal (AADW) of the 4 wells is 3.7-mgd (2008) with a limit of 5.0-mgd (2025), per the Consumptive Use Permit (CUP) #50147 (expires 2025) granted by SJRWMD.

The general characteristics of the City's system are summarized in **Table MD-1**. Treatment comprises iron sequesterant with polyorthophosphate blend corrosion inhibitor, chlorination with sodium hypochlorite (NaOCl) for disinfection and cascade tray aeration for hydrogen sulfide (H2S) removal. The treated water drops into ground storage tanks (GSTs) and is pumped into the City's PWS service area via high service pumps (HSP) to maintain system pressure. The system pressure is controlled by a D620i controller and Variable Frequency Drive (VFD) pumps inside high service pump building at the WTP #1.

TABLE MD-1: General System Characteristics (January 2008-April 2008)

Parameter	Description
Raw Water Supply	
Potable Water Source:	• Groundwater: Four (4) Wells from Upper Floridan Aquifer • Maximum Well Pump Capacity = 10.58-mgd (7,350 gpm) • Well Firm Capacity = 6.70-mgd (4,650 gpm) (largest well off-line)
Reuse Water Source	• Mount Dora WWTF No.1 (FLA010508) • Mount Dora WWTF No.2 (FLA268542)
Water Use Permit:	• CUP-50147 • Last Modification Issued: December 13, 2005 • Expires: December 13, 2025
Permitted Withdrawal (2007):	Maximum Annual Withdrawal = 1,315.09 million gallons Annual Average Daily Withdrawal = 3.60-mgd
Water Treatment	
PWS ID#:	FDEP PWS #3350858
Number of WTPs:	One (1) WTP: • Mount Dora WTP #1 (8.97-mgd)
Treatment:	• Poly-orthophosphate corrosion inhibitor for iron sequesterant • Sodium Hypochlorite (NaOCl) for disinfection • Tray aeration for H2S removal
Water Storage, Pumping and Distribution	
Water Service Connections:	11,493 connections
Water Service Population:	26,894 (assumes 2.34 persons per connection)
High Service Pumping:	Four (4) High Service Pumps • Total HSP Capacity =14.86-mgd (10,320 gpm) • Firm HSP Capacity= 8.52-mgd (5,920 gpm) (largest HSP off-line)
Storage:	Two (2) Ground Storage Tanks:1.0-MG One (1) Elevated Storage Tanks: 0.5-MG Total Storage Capacity = 1.5-MG
Interconnects:	None at this time.

Table MD-2 summarizes type of treatment, well pump capacity, permitted well withdrawal, and design capacity. Note the City's current WTP production is limited by permitted well withdrawal. According to Florida Department of Environmental Protection (FDEP), the WTP have a design capacity of 8.97- mgd (6,229 gpm). Design capacities of the WTPs consider the well pump, high service pump, fire flow storage and treatment capacities.

TABLE MD-2: Mount Dora Water Treatment Plant Capacities (2007)

WTP	Type of Treatment	Firm Well Pumping Capacity (largest wells off-line)(a)	2007 SJRWMD Permitted Annual Average Daily Withdrawal (b)	FDEP Permitted Design Capacity(c)
WTP #1	- Poly-orthophosphate corrosion inhibitor for iron sequestration - Sodium Hypochlorite for disinfection - Aeration for H2S removal	6.70-mgd	3.60-mgd	8.97-mgd
2007 Water Production(d)		5.15-mgd (MDD)	3.37-mgd (ADD)	5.15-mgd (MDD)
Surplus/Deficiency		**+1.55-mgd**	**+0.23-mgd**	**+3.82-mgd**

(a) Total capacity of well pumps = 10.58-mgd

(b) Permit #50147 issued 12/13/05 expires 12/13/25.

(c) Based on FDEP permit (PWS# 3350858).

(d) Water Production (MOR-2007)

3.6.3 City of Tavares

(SOURCE: Exhibit 4-1, 10-year Water Supply Facilities Work Plan, SMW GeoSciences, Inc., May 21, 2008)

INTRODUCTION

According to the State Legislature (ss. 163.3177 and 163.3191), local governments are required to revise the Potable Water element of their Comprehensive Plan to include a Water Supply Facilities Work Plan for at least a 10-year planning period. The work plan must include:

- A projection of the local government's needs for at least a 10-year period;
- Identification and prioritization of the water supply facilities and sources of water that will be required to meet those demands; and
- Inclusion of the capital projects identified as needed for the first 5 years, including financially feasible revenue sources, in the 5-Year Schedule of Capital Improvements.

In addition to the above, local governments are required to revise their comprehensive plan to incorporate selected alternative water supply project(s) that are identified in the regional water supply plan(s) or otherwise proposed by the local government.

Pursuant to the requirements imposed by the State Legislature, the City of Tavares has retained SMW GeoSciences, Inc. (SMW) to assist in preparation of the City's 10-Year Water Supply Facilities Work Plan (Work Plan). Per s. 163.3177(6)(c), the Work Plan is intended to be updated every five years within eighteen months after the water management district governing boards approve updated regional water supply plans, or if needed, as future needs and plans change.

SERVICE AREA

The City of Tavares, located in central Lake County, Florida, is surrounded by three Lakes: Lake Harris, Lake Eustis and Lake Dora. The City currently has no joint planning agreements with Lake County or adjacent cities and utilities.

WATER SOURCES

Groundwater is currently the only water source for the City of Tavares. Groundwater wells extract from the Floridan aquifer to supply potable water to city customers. The City is permitted to withdraw groundwater through the Consumptive Use Permitting Program of the St. Johns River Water Management District (SJRWMD).

WATER PRODUCTION/TREATMENT PLANTS

The City of Tavares supplies potable water to its city customers from four water treatment plants (WTP):

- WTP #1 on Disston Avenue and Main Street;
- WTP #2 on Ingraham Avenue;
- WTP #3 on Dead River Road; and
- WTP #4 on Slim Haywood Road (also known as Lane Park WTP).

to city customers. WTP #2 and WTP #3 are currently only utilized as emergency backups. However, it is anticipated that both WTP #2 and WTP #3 will be upgraded to also supply potable water to city customers regularly in late 2008.

WTP #1, DISTON AVENUE AND MAIN STREET

Water treatment plant #1 is located in downtown Tavares at the intersection of Disston Avenue and Main Street. The water treatment plant contains two existing Upper Floridan aquifer wells for public supply type use: well #3 and well #4. Well information for WTP #1 is provided in **Table TAV-1**. WTP #1 is a chlorination and fluoridation system. The plant includes a 1.0 mgal concrete ground storage tank with aerator, a high service pump station and an auxiliary power generator. The treatment capacity of the plant is 5.76 mgd.

Table TAV-1: WTP #1 Well Information								
Well Number	GRS Station ID	Casing Diameter (inches)	Casing Depth (ft)	Total Depth (ft)	Pump Capacity (gpm)	Date Drilled	Existing/ Proposed	Type Use
3	10110	12	98	223	2,000	1953	Existing	Public Supply
4	10111	12	226	417	2,000	1959	Existing	Public Supply

WTP #2, INGRAHAM AVENUE

Water treatment plant #2 is located on Ingraham Avenue at the elevated tower site. The WTP contains one Upper Floridan aquifer well for public supply type use. Well information for WTP #2 is provided in **Table TAV-2**. WTP #2 is a chlorination and fluoridation system. The treatment capacity of the plant is 0.648 mgd.

Table TAV-2 WTP #2 Well Information								
Well Number	GRS Station ID	Casing Diameter (inches)	Casing Depth (ft)	Total Depth (ft)	Pump Capacity (gpm)	Date Drilled	Existing/ Proposed	Type Use
5	10112	12	138	494	925	1963	Existing	Public Supply

WTP #3, DEAD RIVER ROAD

Water treatment plant #3 is located on Dead River Road. The water treatment plant contains one Upper Floridan aquifer well for public supply type use. Well information for WTP #3 is provided in **Table TAV-3**. WTP #3 is a chlorination and fluoridation system. This plant has no storage facilities; therefore, treated water is discharged directly into the distribution system. The treatment capacity of the plant is 1.4 mgd.

Table TAV-3 : WTP #3 Well Information								
Well Number	GRS Station ID	Casing Diameter (inches)	Casing Depth (ft)	Total Depth (ft)	Pump Capacity (gpm)	Date Drilled	Existing/ Proposed	Type Use
6	10113	12	198	447	1,600	1973	Existing	Public Supply

WTP #4, SLIM HAYWOOD (LAND PARK WTP)

Water treatment plant #4 is located on Slim Haywood Road. The water treatment plant currently includes two Upper Floridan aquifer wells for public supply type use; however, only one well is currently active, well #7. The other well, well #8, has been constructed but is not currently utilized. The well is proposed to come online once the proposed plant expansions occur in late 2008. Well information for WTP #4 is provided in **Table TAV-4**. WTP #4 is a chlorination and fluoridation system and includes a 500,000 gallon concrete ground storage

tank, a high service pump station and an auxiliary power generator. WTP #4 was constructed to service the area of town located west of the Dora Canal. The treatment capacity of the plant is 3.24 mgd. At build out, the plant is anticipated to have a treatment capacity of 5.76 mgd.

Table TAV-4 : WTP #4 Well Information

Well Number	GRS Station ID	Casing Diameter (inches)	Casing Depth (ft)	Total Depth (ft)	Pump Capacity (gpm)	Date Drilled	Existing/ Proposed	Type Use
7	10114	16	320	850	2,500	1995	Existing	Public Supply
8	35546	16	352	850	2,000	2006	Existing	Public Supply

WASTEWATER TREATMENT PLANTS

The City currently operates one wastewater treatment plant (WWTP), the Woodlea Road Water Reclamation Facility. The City's former wastewater treatment plant, the Caroline Street WWTP, was dismantled when the Woodlea Road Water Reclamation Facility was expanded in 2001. A new pump station is now constructed at the Caroline Street WWTP. Presently, wastewater delivered to the Caroline pump station is pre-screened for treatment and then pumped, approximately 2 miles, to the Woodlea Road Water Reclamation Facility where it is treated.

RECLAIMED WATER FACILITY

The Woodlea Road Water Reclamation Facility (aka Woodlea Road WWTP) is designed with a treatment capacity of 3.0 mgd but is currently only permitted to treat 1.99 mgd. The facility is capable of providing advanced treatment and high level disinfection to wastewater so that effluent from the wastewater treatment plant meets the requirements of public access reuse. However, there are currently no reuse connections to the facility. The City is also currently in the process of modifying their facility permit to increase their permitted capacity and to include distribution of public access reuse water.

PERMITTED GROUNDWATER ALLOCATIONS

The City of Tavares is currently authorized to supply water within its service area under Consumptive Use Permit (CUP) No. 2765, issued February 8, 2005. CUP No. 2765 allocates the City a combined maximum annual groundwater withdrawal for the potable water supply system of 1,291.01 mgal (3.537 mgd) in 2010; the CUP expires on October 7, 2010. The City of Tavares' potable water supply system allocation is shared between their four well fields (WTP #1, WTP #2, WTP #3 and WTP #4). The CUP also annually allocates 10.32 mgal (0.028 mgd) of groundwater for irrigation of the City's Woodlea Road Sports Complex. The source of groundwater for this use is from a separate well, well #1, which does not interconnect with those supplying the potable water system. When reclaimed water becomes available, the City will convert the water source for well #1 from groundwater to reclaimed water. The Woodlea Raod Sports Complex is the City's top priority for receiving reuse water.

WATER DEMANDS AND POPULATION

The City of Tavares' 2007 year-end potable water demand was 1,102.35 mgal (3.02 mgd) based on water use data (EN-50) submitted to the St. Johns River Water Management District. This serviced 5,635 residential accounts, computing to a population of approximately 16,091 inclusive of master metered accounts. Water demand projections for the City were determined by calculating the product of the City's average historical gross per capita from 2004 through 2007 and the population projections generated in conjunction with the City and the SJRWMD. The City's projected 5 (2013) and 10- year (2018) annual water demand were calculated to be 1,304.56 mgal (3.57 mgd) and 1,448.36 mgal (3.97 mgd), respectively. The anticipated projected population for each of these years is 21,369 (in 2013) and 23,725 (in 2018), respectively.

CAPACITY ANALYSIS

The City of Tavares' water supply facilities were assessed to determine whether the projected 5 and 10-year water demands were attainable with the City's existing water supply infrastructure. Presently, the City water treatment plants have a combined well production capacity of 9.40 mgd. Well production capacity was determined by maximizing daily pumpage for each city well excluding the well with the highest pump capacity. It is important to note that for this calculation well #8 was also excluded in addition to the highest pump capacity since it currently is not online. When well #8 is online, the well production capacity increases from 9.40 mgd to 12.28 mgd. The existing treatment capacity for the combined water treatment plants is 11.05 mgd. When upgrades are completed at the WTP #4, the combined treatment capacity will increase to 13.57 mgd.

Based on the analysis, the City's existing water supply facilities are sufficient to meet the projected 5 and 10-year water demands. The existing well production capacity exceeds both projected water demands and generates a raw water production surplus of 8.71 and 8.31 respectively.

At the end of 2007, the City had a raw water production surplus of 6.38 mgd. A summary of the analysis is provided in **Table TAV-5**. Since the analysis did not indicate a deficit in well production capacity with water demand, the reduction of groundwater demand via reclaimed water and conservation practices was not included in the analysis.

Table TAV-5 Capacity Analysis

City of Tavares	2007	2010	2013	2018
Total Water Demand (mgd)	3.02	3.34	3.57	3.97
Total Well Production Capacity (mgd)	9.40	12.28	12.28	12.28
Total Treatment Capacity (mgd)	11.05	13.57	13.57	13.57
CUP Allocation (mgd)	3.17	3.54	-	-

Table TAV-5 Capacity Analysis				
City of Tavares	2007	2010	2013	2018
Well Production Capacity Surplus (mgd)	*6.38*	*8.94*	*8.71*	*8.31*
Treatment Capacity Surplus (mgd)	*8.03*	*10.23*	*10.00*	*9.60*

FUTURE WATER SUPPLY PLANS

In order to conserve groundwater supplies of the Floridan aquifer and offset groundwater withdrawals, the City of Tavares has committed to various alternative water supply plans. These alternative water supply plans include 1) continuation of water conservation practices 2) expansion of their reclaimed water facility 3) participation in a regional alternative water source (AWS) project and 4) evaluation of the availability of local alternative water sources.

REUSE EXPANSION

As previously described, the City is currently expanding their reclaimed water facility and is revising the permitted treatment capacity from 1.99 mgd to 3.0 mgd. It is anticipated that this expansion will facilitate the City's needs within the utility service area through 2018. For the 10-Year period of this Work Plan, the City will continue to focus on the following water reuse strategies:

3.6.4 City of Umatilla

(Source: 10 Year Water Supply Facilities Work Plan, prepared for the City of Umatilla by Wicks Consulting Services, Inc., March 2009)

Municipal Potable Water Supply System

The City's Municipal Water Supply system consists of three (3) potable water supply wells, a treatment facility and approximately 30 miles of distribution piping that is networked throughout the City Service Area. The Main Water Plant has a maximum day permitted capacity of 1.0 million gallons per day. A second water plant has been constructed and placed in service. This water plant has a maximum day permitted capacity of 0.861 million gallons per day.

WTP #1, Maxwell Road

Water Treatment Plant #1 includes Well #1 and Well #2, a chlorination system, a fluoridation system, a 150,000 elevated storage tank, a 100,000 gallon CROM ground storage tank with a cascade tray aerator, a high service pump building containing three 20hp vertical turbine high service pumps, and an auxiliary power 75 KW generator.

Well #1 is permitted with the St Johns River Water Management District (SJRWMD) and has the well identification number AAC3215. Well #1 consists of a 12" casing to a depth of 130'

below ground surface, and a total well depth of 585'. The well was drilled in 1976. The water is withdrawn from the Upper Floridan Aquifer and the static water level in the well is approximately 52.6' below ground surface. Water is pumped from the well by a Worthington vertical turbine pump powered by a 30 HP motor. The pump is rated at 1,000 gpm at 80' TDH.

Well #2 is permitted with the St Johns River Water Management District (SJRWMD) and has the well identification number AAC3216. Well #2 consists of a 12" casing to a depth of 137' below ground surface, and a total well depth of 450'. The well was drilled in 1981. The water is withdrawn from the Upper Floridan Aquifer and the static water level in the well is approximately 58' below ground surface. Water is pumped from the well by a Peerless vertical turbine pump powered by a 30 HP motor. The pump is rated at 900 gpm at 105' TDH.

An additional well pump and motor are stored in the facility's high service pump building. Water is pumped from these wells to the 0.1-MG CROM ground storage tank which is equipped with a natural draft cascade tray aerator for the removal of hydrogen sulfide. Water from the wells is also pump to a 0.15-MG elevated storage tank, which currently "floats" on the system.

Finished water is pumped into the distribution system via three constant speed, vertical turbine high service can pumps. The high service pumps are Crane-Deming vertical turbine pumps. Each of the high service pumps has a 20 hp motor and is rated for 500 gpm and is controlled by a constant speed drive. An additional high service pump and motor are stored in the facility's high service pump building. Please note that this well is not equipped with an air release valve.

WTP #2, C.R. 450

Water Treatment Plant #2 is classified by the Florida Department of Environmental Protection as a Category V, Class C facility. Treatment at this facility includes both chlorination and fluoridation.

WTP #2 includes Well #3, an 18" well, a chlorination system, a fluoridation system, a 15,000-gallon hydropneumatic tank and an auxiliary power generator.

Well #3 is an 18" with a total depth of 510'. The well has a 12" casing to a depth of 273' below ground surface and an 18" casing to a depth of 257' below ground surface. This well was drilled in 2007 and the water is withdrawn from the Upper Floridan aquifer. Water is

pumped from the well by a Goulds vertical turbine pump which is driven by a 100 HP motor. The pump has a capacity of approximately 1,000 gpm at 250 TDH.

Water is pumped from this well to a 15,000-gallon ASME certified hydropneumatic tank.

Based upon the Master Water Plan update completed by Booth, Ern, Straughan and Hiott, Inc. (February 2008) and adopted by the City, three (3) additional water plants have been identified for the 2007 – 2030 planning period. These additional improvements to the City's water supply system are proposed based upon the projected growth within the adopted Utility Service Area. These future water plants will be needed to support the projected water demands. These plants will be interconnected with the existing two (2) water plants via the expanded distribution system. The water plant and distribution system will be designed to augment and sustain pressure and volume to meet peak demand throughout the entire system.

The proposed water plants will be located strategically throughout the Service Area. Water Plant #3 will be located in the southside area, Water Plant #4 will be located east of the City near the easterly limits of the Utility Service Area. Water Plant #5 will be located west of the City at a location suitable to serve the future users in that area.

Future Water Plants #3, #4, and #5 are proposed to consist of the following:

- One (1) 12" Upper Floridan Wells, pump and controls
- A new 0.35 MG ground storage tank
- The Three (3) VFD driven high service pumps and associated controls
- Chlorination and fluoride feed system components and controls
- One (1) emergency control generator and transfer switch
- SCADA control system and necessary appurtenances

Based upon the adopted Master Plan, Water Plant #3 is anticipated to be in service by the first quarter of 2011, Water Plant #4 by the first quarter of 2024, and Water Plant #5 by the first quarter of 2029. Each Plant will have a minimum permitted capacity of 1.0 mgd.

The City's potable water distribution system consists of a network of various sizes and materials of pipe ranging from 1-inch diameter to 16-inch diameter. There currently is approximately thirty (30) miles of potable waterlines within the Utility Service Area. This distribution system will be expanded as needed to provide service to the future growth areas. A proposed Capital Water Distribution System Map was prepared as part of the Water

Master Plan. The estimated costs to construct these capital lines were calculated and have been included in the Capital Improvement Plan.

Wastewater Treatment and Reuse System

The City of Umatilla Wastewater Treatment Facility (WWTF) is located on Lake Ferns Road off of Golden Gem Drive west of State Road 19 southwest of downtown Umatilla. The current Sewer Service Area includes most of the developed areas within the City's limits and some surrounding unincorporated areas. Currently, the facility is permitted at 300,000 gallons per day (gpd), or 0.300 million gallons per day (MGD). Annual Average Daily Flow (AADF) for 2005 was 0.183 MGD, while the Maximum Three-Month ADF was 0.221 MGD and the Maximum Month ADF was 0.246 MGD. Although present flows are below permitted capacity, growth in the Central Florida Area is beginning to impact the Umatilla service area. All new developments will be constructed with reclaimed water distribution systems.

The "City of Umatilla, Wastewater Facilities Plan, Planning Document", by Wicks Consulting Services, Inc., dated January 2006, compared two alternatives for providing future wastewater service to the Umatilla Wastewater Service Area. The recommended alternative (Alternative 1) recommended expansion of the existing 0.300 MGD treatment facility by the addition of two 0.300 MGD phases to a total capacity of 0.900 MGD. In order to utilize the approved funding while still available, it was decided to expand the downstream elements of the facility which are not as affected (by low flow conditions) as is the biological process. The facility currently uses a restricted access sprayfield for disposal of its effluent, although the treatment facilities include an existing traveling bridge filter resulting in an effluent meeting Public Access requirements. The expansion was constructed to provide the Public Access level of treatment. The system will meet EPA Class I Reliability Criteria.

This project has been completed and placed in operation with the filtration system (two filters), a dual chlorine contact chamber, transfer pump station to a one million gallon ground storage tank, reclaimed water distribution pump station with a hydro-pneumatic tank pressurized control system, a small electrical and instrumentation equipment building and miscellaneous work to complete the project.

The average daily flow capacities for the new components is 0.900 MGD. Review of flow recorder charts from the existing chlorine contact chamber resulted in an estimated average one hour peaking factor of 1.5 over ADF. Because the new components are also at the end of the treatment train, the overall design flow for the unit processes of this project was established as 1.350 MGD, or approximately 940 gallons per minute (gpm).

Reuse Implementation

Construction of the project was commenced in November 2007 and was completed in July 2008. Currently, there are no reuse collection or distribution lines available to accept the reclaimed water. The City is proceeding with developing reuse requirements for future projects, both residential and commercial. New residential projects that have recently been proposed for development within the City are required to install reuse distribution lines to serve the project.

There are currently no plans to construct reuse distribution lines to serve existing residential or commercial areas within the City due to the cost of such projects. Based upon historic water use and the fact that the City does not currently provide reuse water, it is expected that new projects will be able to utilize all of the reclaimed/reuse water produced by the present and future wastewater facility.

The existing treatment process is permitted for 0.300 mgd (annual average daily flow).

Chapter 4: Assessment of Lake County Comprehensive Plan Policies

This chapter assesses the extent to which objectives and policies in the Lake County Comprehensive Plan address statutory requirements. After each requirement, applicable Plan policies are listed and analyzed. The Plan used for this analysis is the Draft Lake County Comprehensive Plan, due to be transmitted to the Florida Department of Community Affairs in the Spring of 2009.

4.1 Coordination with the appropriate water management district's regional water supply plans. [s. 163.3177(4)(a), F.S.]

POT Policy 1.1.9: Coordination with Other Agencies. Lake County shall work closely with the federal, state, regional and local agencies to ensure all possible alternatives are explored and implemented with respect to new development and water conservation. This can include:

- *Define urban and rural expansion areas throughout undeveloped areas of Lake County;*
- *Require the use of reuse water wherever possible including installation of dual lines in anticipation of reuse water becoming available;*
- *Promote and facilitate Joint Planning Agreements (JPAs) between cities, and with the county and cities;*
- *Consider exploring alternative water supply options;*
- *Look for opportunities to capitalize on economies of scale;*
- *Pursue or support grant matching funding, participation, subsidized loans, and low-cost loan programs for environmental, water resource, and public welfare projects in Lake County;*
- *Assist entities with "seed" money grants for beneficial projects or develop another cooperative approach;*
- *Facilitate regional programs for Lake County entities;*
- *Create Special Water Districts in cooperation with municipalities and regulatory agencies;*
- *Water Resource Cooperation and Support Agreement developed through the JPA process;*
- *Active participation in regional water supply planning with municipalities and regulatory agencies;*
- *Promote conservation through education, incentives, and regulation;*
- *Encourage phasing-out septic systems where possible; and*
- *Develop incentives to connect to central water and wastewater systems.*

ICE Policy 1.1.11: Joint Strategies for Water Supplies. The County shall propose joint strategies for protection of water resources through water supply planning, specifically addressing identification and use of alternative water resources.

Analysis: The policies reference coordination on regional water supply planning, but do not explicitly address Lake County's coordination with the Regional Water Supply Planning process conducted by the Water Management Districts.

Recommendation: Amend Potable Water Sub-Element Policy 1.1.9 to explicitly address coordination with Water Management Districts in the preparation of Regional Water Supply Plans. Amend Intergovernmental Coordination Element Policy 1.1.11 to address the County's intent to coordinate with the Regional Water Supply planning process conducted by the Water Management Districts.

4.2 Ensure that the future land use plan is based upon the availability of adequate water supplies and public facilities services. [s. 163.3177(6)(a), F.S.]

FLUE Policy 1.1.4: Direct Density to Existing Urban Centers. The County shall direct growth to existing urban areas where public facilities and services are presently in place, and discourage growth within rural areas. Higher intensity commercial and higher density residential infill development shall be encouraged within municipalities and existing urbanized areas of the County to conserve rural land and maintain vibrant communities. Urban infill and redevelopment shall be encouraged within the Urban Future Land Use Series where adequate public facilities, including central water and sewer facilities, are available.....

FLUE Policy 1.1.7: Adopt Land Development Regulations. The County shall adopt and maintain a set of specific and detailed Land Development Regulations that implement and are consistent with the goals, objectives and policies of the Comprehensive Plan. The Land Development Regulations at a minimum shall address the following:

- *Water conservation measures and Florida Friendly (right plant in the right place) landscaping;*
- *Provision of public facilities including but not limited to potable water, sanitary sewer, reclaimed water, gas and electric utilities, and emergency services;.....*

FLUE Policy 1.3.1.9: Public Facilities and Services: Public Facilities and Services including but not limited to roads, schools, utilities, and emergency services shall be addressed for all Traditional Neighborhood Development projects. Adopted levels of service shall be maintained as specified in the Comprehensive Plan, and all services must be available concurrent with the impacts of development. Central water and sewer services shall be required for new development, and stormwater management systems shall be planned, designed and phased for the entire project.

FLUE Policy 7.13.6: Standards for Amending the Comprehensive Plan. The County shall include within its Land Development Regulations provisions governing

amendments to the County's Comprehensive Plan. At a minimum, the LDRs shall include the following standards of review:

….

- *Demonstration that facilities and services are available within the levels of services adopted throughout the Comprehensive Plan, including but not limited to water, sewer, traffic, parks and recreational facilities and schools;…*
-

POT Policy 1.3.2: Prohibit the Provision of Potable Water as Sole Justification for Land Use Amendments. Lake County shall prohibit the provision of potable water as sole justification for amendments to the Future Land Use Element where new or expanded development will adversely impact resource/conservation areas or neighborhoods or will otherwise promote urban sprawl.

POT Policy 1.3.3: Coordination of Potable Water with Land Use. Lake County shall maximize the use of existing facilities and discourage urban sprawl by encouraging the provision of central potable water services within existing and planned service areas where possible and prohibiting the extension of potable water facilities outside of existing and planned service areas as depicted on the Future Land Use Map.

Analysis: FLUE policy 7.13.6 does not reflect that potable water supply levels of service are set by municipalities. The various policies of the Comprehensive Plan do address the coordination of land use with water supply planning.

Recommendation: Amend Future Land Use Element Policy 7.1.3.6 to clearly state that land use and land use changes will be coordinated with the availability of water supply and water supply facilities.

4.3 Ensure that adequate water supplies and facilities are available to service new development no later than the date on which the local government anticipates issuing a certificate of occupancy and consult with the applicable water supplier prior to approving a building permit, to determine whether adequate water supplies will be available to serve the development by the anticipated issuance date of the certificate of occupancy. [163.3180(2)(a) F.S.]

FLUE GOAL 1: PURPOSE OF THE FUTURE LAND USE ELEMENT: The goal of the Future Land Use Element is to protect the unique assets, character, and quality of life in Lake County through the implementation of land use policies and regulations that accomplish the following:

- *Provide for the efficient allocation of public facilities and services concurrent with the impacts of development and in compliance with adopted Levels of Service; ….*

FLUE Policy 1.3.1.9: Public Facilities and Services: Public Facilities and Services including but not limited to roads, schools, utilities, and emergency services shall be addressed for all Traditional Neighborhood Development projects. Adopted levels of

service shall be maintained as specified in the Comprehensive Plan, and all services must be available concurrent with the impacts of development. Central water and sewer services shall be required for new development, and stormwater management systems shall be planned, designed and phased for the entire project.

FLUE Policy 7.11.1: Concurrency Requirements: The County shall ensure that public services and facilities are available concurrent with new development. All development orders, permits, and agreements shall be subject to the adopted Concurrency Management System consistent with the Concurrency Management Element of this Comprehensive Plan.

CME Policy 1.1.7: Concurrency Requirement. The Board of County Commissioners of Lake County finds that the impacts of development on public facilities within the County occur concurrent with development authorized by a final development order. Therefore, capacity for Category A facilities and services shall be available concurrent with the impacts of development. The County shall determine, prior to the issuance of development orders, whether or not there is sufficient capacity of Category A public facilities to meet the standards for levels of service for existing population and development and the proposed development concurrent with the impacts of the proposed development. For the purpose of this policy, "concurrent with" shall be defined as follows:

No final development order shall be issued by the County unless there shall be sufficient capacity of Category A public facilities to meet the standards for levels of service for the existing population and for proposed development according to the following deadlines:

1. Potable Water, Sanitary Sewer, Solid Waste, and Stormwater Management. To satisfy concurrency requirements, capacities for water, sewer, solid waste and stormwater management must comply with adopted level of service standards according to one of the following timeframes established during the concurrency determination stage of the development review process:

- *Facilities and services are in place prior to the issuance of a building permit.*
- *A development permit is issued subject to the condition that the necessary facilities and services will be in place at the time the impacts of the development occur. Such conditions shall be stipulated within an enforceable development agreement or a binding contract that guarantees the completion of construction prior to the issuance of a certificate of occupancy. A development shall place no impact on facility capacity until such a certification is issued.*
- *The necessary facilities are under construction at the time a permit is issued. Such facilities shall be completed prior to the impacts of development. A certificate of occupancy shall not be issued until such facilities or services are able to perform in a manner consistent with adopted level of service standards.*

Analysis: This policy addresses concurrency requirements for potable water, but does not explicitly recognize the level of service standards used to assess concurrency that are adopted by the municipalities. It is not clear how the County addresses concurrency for private water utility providers. The policy does not address the consultation between the County and the appropriate water provider.

Recommendation: Amend Concurrency Management Element Policy 1.1.7 to address level of service standards established by municipalities, standards for private developers and consultation between the County and the appropriate water provider.

4.4 Identify and incorporate the alternative water supply projects selected by the local government from projects identified in the updated regional water supply plan, or the alternative project proposed by the local governments under s.373.0361(7). [s.163.3177(6)(c) F.S.]

Lake County is not a water supplier and has not identified any water supply projects. The County has relied upon the data provided by municipal water suppliers to prepare the Water Supply Plan. Information available from municipal suppliers is provided in Chapter 3.

4.5. Identity traditional and alternative water supply projects, bulk sales agreements, and the conservation and reuse programs necessary to meet current and future water demands within the local government's jurisdiction. [s.163.3177(6)(c) F.S.]

Lake County is not a water provider and has not identified water supply projects or bulk sales agreements. The County has relied upon the data provided by municipal water suppliers to prepare the Water Supply Plan. Information available from municipal suppliers is provided in Chapter 3.

The County has the following policies in the Plan addressing the promotion of reuse and conservation.

CON Policy 2.1.4 Conserve Potable Water Supplies: The County shall implement plans and procedures to conserve its potable water supplies to the maximum extent practicable through the implementation of water conservation techniques, programs, and cooperative arrangements with local water utilities. Such techniques, methods, and programs may include, but are not limited to:

- *Requiring installation of water conserving plumbing fixtures in new and renovated buildings which are, at minimum, consistent with the requirements of the federal, state, regional and local agencies;*
- *Promoting water reuse and/or reclamation, where appropriate, for landscape, golf courses and farm irrigation, industrial use and other appropriate applications;*

- *Supporting the implementation of leak detection programs by the owners/operators of public water supply systems in order to discover and curtail wasteful losses of potable water from public water supply water delivery networks;*
- *A cooperative plugging program for uncapped artesian wells with SJRWMD and SWFWMD, and the local DOH;*
- *Encouraging the implementation of water and sewer revenue mechanisms which encourage the economical/conservational use of potable water supplies;*
- *Implementation of irrigation policies and practices according to federal, state, regional and local agency guidelines;*
- *Prescribe water wise —Florida-Friendly Landscaping// guidelines for all County facilities and new development;*
- *Distribute educational materials, which describe sources of water consumption and opportunities for conservation, to the general public; and*
- *Require the installation of dual-water lines and meters in all new developments served by a central water system to distribute reuse water even if reuse water is not yet available.*

CON Policy 3.1.2: Participate in Long Range Water Conservation Planning. The County shall participate in the development of long range conservation plans that are created as part of the water supply planning process of the water management districts. The County shall participate in working groups and advisory groups on supply planning, minimum lows and levels, TMDLs, including the Florida Water Quality Monitoring Council and other water quality monitoring. The County shall facilitate input from stakeholder groups.

CON Policy 3.1.4: Conserve Potable Water Supplies. The County shall implement plans and procedures to conserve its potable water supplies to the maximum extent practicable through the implementation of water conservation techniques, programs, and cooperative arrangements with local water utilities. Such techniques, methods, and programs may include, but are not limited to:

- *Requiring installation of water conserving plumbing fixtures in new and renovated buildings which are, at minimum, consistent with the requirements of the federal, state, regional and local agencies;*
- *Promoting water reuse and/or reclamation, where appropriate, for landscape, golf courses and farm irrigation, industrial use and other appropriate applications;*
- *Supporting the implementation of leak detection programs by the owners/operators of public water supply systems in order to discover and curtail wasteful losses of potable water from public water supply water delivery networks;*
- *A cooperative plugging program for uncapped artesian wells with SJRWMD and SWFWMD, and the local DOH;*
- *Encouraging the implementation of water and sewer revenue mechanisms which encourage the economical/conservational use of potable water supplies;*

- *Implementation of irrigation policies and practices according to federal, state, regional and local agency guidelines;*
- *Prescribe water wise "Florida-Friendly Landscaping" guidelines for all County facilities and new development;*
- *Distribute educational materials, which describe sources of water consumption and opportunities for conservation, to the general public; and*
- *Require the installation of dual-water lines and meters in all new developments served by a central water system to distribute reuse water even if reuse water is not yet available.*

CON Policy 3.1.5: Adopt a Water Conservation Ordinance. The County shall adopt within the LDRs provisions for water conservation which further implement the water conservation plans and programs of the federal, state, regional and local agencies. The County shall also establish incentives to conserve water.

Analysis: Plan policies adequately address beneficial reuse and the conservation of potable water resources.

4.6 Include water supply facilities work plan for at least a 10 year planning period for constructing the public, private, and regional water supply facilities identified in the element as necessary to serve existing and new development. [s.163.3177(6)(c) F.S.]

Lake County is not a water provider. It has relied upon the data provided by municipal water suppliers to prepare the Water Supply Plan. Information available from municipal suppliers is provided in Chapter 3.

4.7 Revise the Five Year Schedule of Capital Improvements to include any water supply, reuse, and conservation projects and programs to be implemented during the five year period.

Lake County is not a water provider. The Comprehensive Plan includes policies to ensure that facilities will be provided when needed.

FLU Policy 7.12.3 Provision of Central Water and Sewer Services: The County shall encourage compact development and ensure that future urban development occurs in a contiguous fashion through the detailed requirements of policies within the Potable Water and Sanitary Sewer Sub-Elements. Within rural areas, the County shall rely primarily on individual on-site wastewater treatment and disposal systems as the method of wastewater disposal and shall rely primarily on individual wells for potable water. Central water and sewer services are not intended nor required for areas within the Rural Future Land Use Series; however, property within the Rural Transition Future Land Use Category adjacent to urban areas shall be encouraged to connect to central services if available. Otherwise, central services shall only be provided within the Rural Future Land Use Series if the absence of such facilities would result in a threat to

public health or the environment. The provision of central utilities shall not be used as sole justification for a future land use amendment.

FLU Policy 7.13.3 Services and Facilities/Concurrency: Minimum facilities needed to support a Comprehensive Plan amendment shall be those defined in the Capital Improvements Element and shall be subject to the Concurrency Management Standards and provisions contained in the Concurrency Management Element of this Plan. Future Land Use amendments that impact facilities shall require amendments to the appropriate Element, including the Capital Improvements Element to ensure adequate facilities can be provided.

CIE Policy 2.1.2 Capital Improvements Defined: Physical improvements to public facilities, including land acquisition, buildings, structures, facilities, equipment, and infrastructure with a unit cost exceeding $25,000 and a useful life of at least five years shall be considered capital improvements. For purposes of the Schedule of Capital Improvements, public facilities are defined as those facilities that maintain or improve adopted levels of service for traffic circulation, mass transit, potable water, sanitary sewer, solid waste, parks and stormwater management. Consistency in the Schedule of Capital Improvement.

The Schedule of Capital Improvements shall be consistent with and act as a means of implementing the County's comprehensive plan. County capital improvements shall be made in accordance with the adopted Schedule of Capital Improvements, including amendments, as outlined in the comprehensive plan.

OBJECTIVE 2.4 SCHEDULE OF CAPITAL IMPROVEMENTS: Lake County shall coordinate the approval of new development with the Schedule of Capital Improvements. The schedule shall include the maintenance of adopted level of service standards and shall include the existing and future facility needs of Lake County.

Analysis: The County's policies and objectives regarding new development and land use changes adequately address their coordination with the schedule of capital improvements. That schedule is, by design and by definition, financially feasible. The County does not provide water and sewer services, however, review processes for all Future Land Use Map Amendments, rezonings, and Development Orders address the provision of facilities at adopted levels of service. Currently, the County does not include the municipalities' water supply capital improvements in its Plan, nor does it include those of private entities that may need to construct facilities to serve their developments. Private water suppliers, who typically provide service to a single development, must meet all concurrency and level of service requirements.

The alternative water supply projects identified in the St. John's River Water Management District's District Water Supply Plan (DWSP) and those discussed in the LCWSP are mostly outside of the County and all alternative water supply projects will require regional effort to bring to fruition. The County will coordinate with the District on all such projects within the County.

No additional policies are needed at this time.

4.8 To the extent necessary to maintain internal consistency, revise the Conservation Element to assess projected water needs and sources for at least a 10 year planning period, considering the appropriate regional water supply plan(s.) as well as applicable Consumptive Use Permits[s.163.3177(6)(d) F.S.]

Lake County is not a water provider. Based on the analysis above, no amendments are needed to the Conservation Element. The Data, Inventory, and Analysis section of the Conservation Element addresses projected needs and sources through the 2030 planning horizon and the SJRWMD Regional Water Supply Plan. In addition to the various policies ensuring consistency with the District's water supply planning efforts, the following policy addresses Consumptive use permits.

CON Policy 2.1.6 Monitor Consumptive Use Permitting: The County shall track the consumptive use permitting activities of the SJRWMD and the SWFWMD. The County shall evaluate the CUPs issued by the WMDs for potential surface water and groundwater impacts and compliance with LDRs. The County shall take appropriate land use regulatory actions to assist the federal, state, regional and local agencies in ensuring an adequate water supply for existing and future needs, including the protection of water dependent natural resources.

Analysis: Plan policies adequately address the Regional Water Supply Plan and the tracking of Consumptive Use Permits..

4.9 To the extent necessary to maintain internal consistency, revise the Intergovernmental Coordination Element to ensure coordination of the Comprehensive Plan with the applicable regional water supply plans.[s.163.3177(6)(h)1 F.S.].

See Section 4.1, above.

In addition to these statutory requirements, the Comprehensive Plan was reviewed based on the recommendations in the "Guide for Local Governments in Preparing Water Supply Comprehensive Plan amendments and Water Supply Facilities Work Plans (Florida Department of Community Affairs, September 2007, pgs 15-16). This analysis is presented below.

4.10 Coordination of land uses and future land use changes with the availability of water supplies and water supply (See also Section 4.2)

FLUE Policy 1.1.4: Direct Density to Existing Urban Centers. The County shall direct growth to existing urban areas where public facilities and services are presently in

place, and discourage growth within rural areas. Higher intensity commercial and higher density residential infill development shall be encouraged within municipalities and existing urbanized areas of the County to conserve rural land and maintain vibrant communities. Urban infill and redevelopment shall be encouraged within the Urban Future Land Use Series where adequate public facilities, including central water and sewer facilities, are available…..

FLUE Policy 1.1.7: Adopt Land Development Regulations. *The County shall adopt and maintain a set of specific and detailed Land Development Regulations that implement and are consistent with the goals, objectives and policies of the Comprehensive Plan. The Land Development Regulations at a minimum shall address the following:*

- *Water conservation measures and Florida Friendly (right plant in the right place) landscaping;*
- *Provision of public facilities including but not limited to potable water, sanitary sewer, reclaimed water, gas and electric utilities, and emergency services;……*

FLUE Policy 1.3.1.9: Public Facilities and Services: *Public Facilities and Services including but not limited to roads, schools, utilities, and emergency services shall be addressed for all Traditional Neighborhood Development projects. Adopted levels of service shall be maintained as specified in the Comprehensive Plan, and all services must be available concurrent with the impacts of development. Central water and sewer services shall be required for new development, and stormwater management systems shall be planned, designed and phased for the entire project.*

FLUE Policy 7.13.6: Standards for Amending the Comprehensive Plan. *The County shall include within its Land Development Regulations provisions* governing amendments to the County's Comprehensive Plan. At a minimum, the LDRs shall include the following standards of review:

….

- *Demonstration that facilities and services are available within the levels of services adopted throughout the Comprehensive Plan, including but not limited to water, sewer, traffic, parks and recreational facilities and schools;…*

POT Policy 1.3.2: Prohibit the Provision of Potable Water as Sole Justification for Land Use Amendments. *Lake County shall prohibit the provision of potable water as sole justification for amendments to the Future Land Use Element where new or expanded development will adversely impact resource/conservation areas or neighborhoods or will otherwise promote urban sprawl.*

POT Policy 1.3.3: Coordination of Potable Water with Land Use. *Lake County shall maximize the use of existing facilities and discourage urban sprawl by encouraging the provision of central potable water services within existing and planned service areas where possible and prohibiting the extension of potable water facilities outside of existing and planned service areas as depicted on the Future Land Use Map.*

Analysis: FLUE policy 7.13.6 does not reflect that potable water supply levels of service are set by municipalities. The various policies of the Comprehensive Plan do address the coordination of land use with water supply planning.

Recommendation: Amend Future Land Use Element Policy 7.1.3.6 to clearly state that land use and land use changes will be coordinated with the availability of water supply and water supply facilities.

4.11 Provision for the protection of water quality in the traditional and new alternative water supply sources.

CON 2.1.3: Plan for Safe Withdrawal Rates of Water: The County, as a participant in the Water Alliance under interlocal agreement, shall continue to work with the water management districts on water supply plans that provide for water supply needs and the basis for emergency conservation measures in the event of drought conditions or water shortages, while encouraging and participating in efforts to comply with federal state regional and local standards and rules for protection of ground water and ground water dependent natural resources.

CON Policy 3.1.7: Ensure Supply of Safe Potable Water. The County shall review regulatory data and information related to the supply of safe potable water to its residents. The County shall coordinate and cooperate with federal, state, regional agencies including the Water Management Districts on countywide ground water monitoring especially in those areas of existing, suspected or the potential for ground water contamination.

CON Policy 3.1.9: Impact of Land Use on Groundwater. Lake County shall prohibit land uses which are known to pose a severe threat to the availability of groundwater resources or whose practices are known to pose a severe threat to the quality of groundwater. Land use planning and development approvals shall reflect the limitations and vulnerability of groundwater supplies, including groundwater basin inventories conducted by the water management districts.

CON Policy 3.3.19: Establish a Water Quality Protection Strategy for Springsheds. The County shall adopt design criteria for stormwater management practices that:

- *Minimize the leaching or discharge of nutrients and pollutants;*
- *Use karst area requirements similar to those required by the SJRWMD;*
- *Provide funding for the Florida Yards and Neighborhoods program to educate the public about proper lawn and landscaped area fertilization and irrigation;*
- *Incorporate the principles of the Florida Yards and Neighborhoods Program into local landscaping ordinances;*
- *Require frequent and active street sweeping;*
- *Adopt water conservation programs;*

- *Educate the public about the proper operation and maintenance of septic tanks;*
- *Implement a local septic management program to assure that these systems are regularly inspected, pumped out, and brought up to current standards whenever a parcel is sold; and*
- *Promote a local stewardship "adopt a spring" type program and other incentive and volunteer springshed awareness and protection programs.*

ICE Policy 1.1.11 Joint Strategies for Water Supplies: The County shall propose joint strategies for protection of water resources through water supply planning, specifically addressing identification and use of alternative water resources.

Analysis: Plan policies adequately address the provision for the protection of the quality of traditional supplies (groundwater) and alternative water sources. Also, since many of the proposed alternative water projects rely on surface water, the County's policies and programs which protect surface water quality and manage stormwater the Low Impact Development principles and practices will serve to protect this resource, as well.

4.12 Provision for conserving potable water resources, including the implementation of reuse programs and potable water conservation strategies and techniques. (See also Section 4.5)

CON Policy 3.1.2: Participate in Long Range Water Conservation Planning. The County shall participate in the development of long range conservation plans that are created as part of the water supply planning process of the water management districts. The County shall participate in working groups and advisory groups on supply planning, minimum lows and levels, TMDLs, including the Florida Water Quality Monitoring Council and other water quality monitoring. The County shall facilitate input from stakeholder groups.

CON Policy 3.1.4: Conserve Potable Water Supplies. The County shall implement plans and procedures to conserve its potable water supplies to the maximum extent practicable through the implementation of water conservation techniques, programs, and cooperative arrangements with local water utilities. Such techniques, methods, and programs may include, but are not limited to:

- *Requiring installation of water conserving plumbing fixtures in new and renovated buildings which are, at minimum, consistent with the requirements of the federal, state, regional and local agencies;*
- *Promoting water reuse and/or reclamation, where appropriate, for landscape, golf courses and farm irrigation, industrial use and other appropriate applications;*
- *Supporting the implementation of leak detection programs by the owners/operators of public water supply systems in order to discover and curtail wasteful losses of potable water from public water supply water delivery networks;*

- *A cooperative plugging program for uncapped artesian wells with SJRWMD and SWFWMD, and the local DOH;*
- *Encouraging the implementation of water and sewer revenue mechanisms which encourage the economical/conservational use of potable water supplies;*
- *Implementation of irrigation policies and practices according to federal, state, regional and local agency guidelines;*
- *Prescribe water wise "Florida-Friendly Landscaping" guidelines for all County facilities and new development;*
- *Distribute educational materials, which describe sources of water consumption and opportunities for conservation, to the general public; and*
- *Require the installation of dual-water lines and meters in all new developments served by a central water system to distribute reuse water even if reuse water is not yet available.*

CON Policy 3.1.5: Adopt a Water Conservation Ordinance. The County shall adopt within the LDRs provisions for water conservation which further implement the water conservation plans and programs of the federal, state, regional and local agencies. The County shall also establish incentives to conserve water.

Analysis: Plan policies adequately address beneficial reuse and the conservation of potable water resources.

4.13 Provision for improved or additional coordination between a water supply provider and the recipient local government concerning the sharing and updating of information to meet ongoing water supply needs.

POT Policy 1.1.9: Coordination with Other Agencies. Lake County shall work closely with the federal, state, regional and local agencies to ensure all possible alternatives are explored and implemented with respect to new development and water conservation. This can include:

- *Define urban and rural expansion areas throughout undeveloped areas of Lake County;*
- *Require the use of reuse water wherever possible including installation of dual lines in anticipation of reuse water becoming available;*
- *Promote and facilitate Joint Planning Agreements (JPAs) between cities, and with the county and cities;*
- *Consider exploring alternative water supply options;*
- *Look for opportunities to capitalize on economies of scale;*
- *Pursue or support grant matching funding, participation, subsidized loans, and low-cost loan programs for environmental, water resource, and public welfare projects in Lake County;*
- *Assist entities with "seed" money grants for beneficial projects or develop another cooperative approach;*
- *Facilitate regional programs for Lake County entities;*

- *Create Special Water Districts in cooperation with municipalities and regulatory agencies;*
- *Water Resource Cooperation and Support Agreement developed through the JPA process;*
- *Active participation in regional water supply planning with municipalities and regulatory agencies;*
- *Promote conservation through education, incentives, and regulation;*
- *Encourage phasing-out septic systems where possible; and*
- *Develop incentives to connect to central water and wastewater systems.*

ICE Policy 1.1.11: Joint Strategies for Water Supplies. The County shall propose joint strategies for protection of water resources through water supply planning, specifically addressing identification and use of alternative water resources.

Analysis: Plan policies do not reflect the need for the County to coordinate with municipalities as they prepare their water supply plans. The policies reference coordination on regional water supply planning, but do not explicitly address Lake County's coordination with the Regional Water Supply Planning process conducted by the Water Management Districts.

Recommendation: Amend Potable Water Sub-Element Policy 1.1.9 to explicitly address coordination with municipalities in the preparation of their water supply plans and with Water Management Districts in the preparation of Regional Water Supply Plans. Amend Intergovernmental Coordination Element Policy 1.1.11 to address the County's intent to coordinate with the Regional Water Supply planning process conducted by the Water Management Districts.

4.14 Coordination between local governments and the water supply provider in the implementation of alternative water supply projects, establishment of level-of service standards and resource allocations, changes in service areas, and potential for annexation.

FLUE 7.11.1: Adopt Joint Planning Areas. The County may pursue Joint Planning Areas (JPAs) with each of the municipalities in Lake County and with adjacent counties to address, at a minimum, future annexation, provision of services and facilities, and land use compatibility.

FLUE 7.11.8: Coordinate Levels of Service. The County shall, to the best of its ability, ensure that its levels of service for public and private facilities are compatible with the adopted levels of service of neighboring jurisdictions in and adjacent to Lake County and appropriate state and regional authorities through active intergovernmental coordination.

POT Policy 1.1.9: Coordination with Other Agencies. (See Section 4.4)

POT Policy 1.2.1: Coordination of Services with the Municipalities. Lake County shall execute Interlocal Agreements with the municipal utility suppliers within Lake County for establishing service areas so as not to duplicate services and to provide for conditions for the establishment of and the operation within the service area. Municipal service areas shall be based upon the available capacity reported, and the future service areas delineated in the Comprehensive Plans of each municipality that provides potable water service. Prior to the execution of Interlocal Agreements, the County shall allow municipalities to provide service in the unincorporated part of Lake County in accordance with the area set forth in the adopted Comprehensive Plans of each municipality that provides potable water service, and the criteria set forth in the Lake County Comprehensive Plan. Expansion of services, both water and sewer by the municipalities, should be consistent with their Capital Improvement Plan (CIP), Capital Improvement Element (CIE) and the Joint Planning Agreement (JPA).

Analysis: Plan policies adequately address the coordination between local governments and the water supply provider in the implementation of alternative water supply projects, establishment of level-of service standards and resource allocations, changes in service areas, and potential for annexation, however, they do not explicitly address Lake County's coordination with the Regional Water Supply Planning process conducted by the Water Management Districts.

Recommendation: As noted in Section 4.4 above, amend Potable Water Sub-Element Policy 1.1.9 to explicitly address coordination with municipalities in the preparation of their water supply plans and with Water Management Districts in the preparation of Regional Water Supply Plans. Amend Intergovernmental Coordination Element Policy 1.1.11 to address the County's intent to coordinate with the Regional Water Supply planning process conducted by the Water Management Districts.

4.15 Coordination of land uses with available and projected fiscal resources and a financially feasible schedule of capital improvements for water supply and facility projects. (See also Section 4.7)

FLU Policy 7.12.3 Provision of Central Water and Sewer Services: The County shall encourage compact development and ensure that future urban development occurs in a contiguous fashion through the detailed requirements of policies within the Potable Water and Sanitary Sewer Sub-Elements. Within rural areas, the County shall rely primarily on individual on-site wastewater treatment and disposal systems as the method of wastewater disposal and shall rely primarily on individual wells for potable water. Central water and sewer services are not intended nor required for areas within the Rural Future Land Use Series; however, property within the Rural Transition Future Land Use Category adjacent to urban areas shall be encouraged to connect to central services if available. Otherwise, central services shall only be provided within the Rural Future Land Use Series if the absence of such facilities would result in a threat to

public health or the environment. The provision of central utilities shall not be used as sole justification for a future land use amendment.

FLU Policy 7.13.3 Services and Facilities/Concurrency: Minimum facilities needed to support a Comprehensive Plan amendment shall be those defined in the Capital Improvements Element and shall be subject to the Concurrency Management Standards and provisions contained in the Concurrency Management Element of this Plan. Future Land Use amendments that impact facilities shall require amendments to the appropriate Element, including the Capital Improvements Element to ensure adequate facilities can be provided.

CIE Policy 2.1.2 Capital Improvements Defined: Physical improvements to public facilities, including land acquisition, buildings, structures, facilities, equipment, and infrastructure with a unit cost exceeding $25,000 and a useful life of at least five years shall be considered capital improvements. For purposes of the Schedule of Capital Improvements, public facilities are defined as those facilities that maintain or improve adopted levels of service for traffic circulation, mass transit, potable water, sanitary sewer, solid waste, parks and stormwater management. Consistency in the Schedule of Capital Improvement.

The Schedule of Capital Improvements shall be consistent with and act as a means of implementing the County's comprehensive plan. County capital improvements shall be made in accordance with the adopted Schedule of Capital Improvements, including amendments, as outlined in the comprehensive plan.

OBJECTIVE 2.4 SCHEDULE OF CAPITAL IMPROVEMENTS: Lake County shall coordinate the approval of new development with the Schedule of Capital Improvements. The schedule shall include the maintenance of adopted level of service standards and shall include the existing and future facility needs of Lake County.

Analysis: The County's policies and objectives regarding new development and land use changes adequately address their coordination with the schedule of capital improvements. That schedule is, by design and by definition, financially feasible. The County does not provide water and sewer services, however, review processes for all Future Land Use Map Amendments, rezonings, and Development Orders address the provision of facilities at adopted levels of service. Currently, the County does not include the municipalities' water supply capital improvements in its Plan, nor does it include those of private entities that may need to construct facilities to serve their developments. Private water suppliers, who typically provide service to a single development, must meet all concurrency and level of service requirements.

The alternative water supply projects identified in the St. John's River Water Management District's District Water Supply Plan (DWSP) and those discussed in the LCWSP are mostly outside of the County and all alternative water supply projects will require regional effort to bring to fruition. The County will coordinate with the District on all such projects within the County.

No additional policies are needed at this time.

4.16 Implementation of Concurrency Management System (see also Section 4.3)

FLUE GOAL 1: PURPOSE OF THE FUTURE LAND USE ELEMENT: The goal of the Future Land Use Element is to protect the unique assets, character, and quality of life in Lake County through the implementation of land use policies and regulations that accomplish the following:

- *Provide for the efficient allocation of public facilities and services concurrent with the impacts of development and in compliance with adopted Levels of Service; ….*

FLUE Policy 1.3.1.9: Public Facilities and Services: Public Facilities and Services including but not limited to roads, schools, utilities, and emergency services shall be addressed for all Traditional Neighborhood Development projects. Adopted levels of service shall be maintained as specified in the Comprehensive Plan, and all services must be available concurrent with the impacts of development. Central water and sewer services shall be required for new development, and stormwater management systems shall be planned, designed and phased for the entire project.

FLUE Policy 7.11.1: Concurrency Requirements: The County shall ensure that public services and facilities are available concurrent with new development. All development orders, permits, and agreements shall be subject to the adopted Concurrency Management System consistent with the Concurrency Management Element of this Comprehensive Plan.

CME Policy 1.1.7: Concurrency Requirement. The Board of County Commissioners of Lake County finds that the impacts of development on public facilities within the County occur concurrent with development authorized by a final development order. Therefore, capacity for Category A facilities and services shall be available concurrent with the impacts of development. The County shall determine, prior to the issuance of development orders, whether or not there is sufficient capacity of Category A public facilities to meet the standards for levels of service for existing population and development and the proposed development concurrent with the impacts of the proposed development. For the purpose of this policy, "concurrent with" shall be defined as follows:

No final development order shall be issued by the County unless there shall be sufficient capacity of Category A public facilities to meet the standards for levels of service for the existing population and for proposed development according to the following deadlines:

1. Potable Water, Sanitary Sewer, Solid Waste, and Stormwater Management. To satisfy concurrency requirements, capacities for water, sewer, solid waste and

stormwater management must comply with adopted level of service standards according to one of the following timeframes established during the concurrency determination stage of the development review process:

- *Facilities and services are in place prior to the issuance of a building permit.*
- *A development permit is issued subject to the condition that the necessary facilities and services will be in place at the time the impacts of the development occur. Such conditions shall be stipulated within an enforceable development agreement or a binding contract that guarantees the completion of construction prior to the issuance of a certificate of occupancy. A development shall place no impact on facility capacity until such a certification is issued.*
- *The necessary facilities are under construction at the time a permit is issued. Such facilities shall be completed prior to the impacts of development. A certificate of occupancy shall not be issued until such facilities or services are able to perform in a manner consistent with adopted level of service standards.*

Analysis: This policy addresses concurrency requirements for potable water, but does not explicitly recognize the level of service standards used to assess concurrency are adopted by the municipalities. Also it is not clear how the County addresses concurrency for private water utility providers.

Recommendation: Amend Concurrency Management Element Policy 1.1.7 to address level of service standards established by municipalities and standards for private developers.

4.17 Encourage urban development to connect to central water.

POT Policy 1.2.6: Provision of Potable Water Services Inside of Designated Urban Areas. The County shall require that property within the Urban Land Use Series connect to potable water services consistent with mandatory connection policy. Independent utility providers or public-private partnerships may be considered to provide regional potable water services within the Urban Land Use Series where connection to a municipal system is not feasible, and if such services are both cost efficient and environmentally sound.

POT Policy 1.2.3: Mandatory Connection Ordinance. Lake County shall prepare and adopt as appropriate a mandatory connection ordinance which, at a minimum, shall require the following within the Urban Land Use Series: New development that exceeds 1500 GPD and is located within 1000 feet of a public potable water system, or new homes or developments with usage less than 1500 GPD and located within 300 feet of public potable water, shall be required to connect to public potable water.

Existing homes and development shall be required to connect to public potable water within 5 years of meeting this criteria or within 5 years of the effective date of this ordinance. Upon connection to public water supply, private wells completed in and or otherwise withdrawing water from the Floridan Aquifer must be abandoned in accordance with Water Management District rules. Where reuse water is not available, private wells with back flow prevention may be used for irrigation. Where reuse water is available for irrigation, private wells completed in the Surficial Aquifer must be abandoned in accordance with Water Management District Rules.

Analysis: Plan policies adequately encourage urban development to connect to central water and sewer.

4.18 Stormwater management, aquifer recharge and reuse water policies consistent with the goals of the District's Middle St. John River Basin, Upper Ocklawaha River Basin, and Lake George River Basin programs to protect or enhance water quality. (SJRWMD EAR comment)

CON OBJECTIVE 2.1 GROUNDWATER: The County, in coordination with federal, state, regional and local agencies, shall protect the quantity and quality of groundwater resources, recharge areas, and prevent excessive groundwater draw-down caused by withdrawal for consumptive uses.

Analysis: The Objective and supporting Plan policies adequately address the protection of groundwater resources and aquifer recharge. Additionally, the Aquifer Recharge Sub-Element of the Public Facilities Element adequately addresses recharge throughout the County and the various policies implementing Low Impact Development principles and practices countywide will ensure adequate stormwater management.

CON Policy 3.2.3: Surface Water Quality Restoration. The County shall continue to participate in surface water restoration programs in cooperation and coordination with the state for programs such as, but not limited to, SJRWMD's SWIM plans for Lake Apopka and the Upper Ocklawaha River Basin Stormwater Management Systems.

Analysis: This policy addresses coordination with the SJRWMD on some basin programs but does not include all programs of concern to the District.

Recommendation: Amend Conservation Policy 3.2.3 to address County participation in all relevant District programs.

POT Policy 2.1.9 Coordination with Other Agencies: Lake County shall work closely with the federal, state, regional and local agencies to ensure all possible alternatives are explored and implemented with respect to new development and water conservation. This can include:.....

- Require the use of reuse water where ever possible including instillation of dual lines in anticipation of reuse water becoming available; .....

Analysis: This policy adequately addresses coordination with the SJRWMD on reuse programs of concern to the District.

4.19 Implementation of Low Impact Design. (SJRWMD EAR comment)

FLU Policy 1.1.8 Adopt Land Development Regulations: The County shall adopt and maintain a set of specific and detailed Land Development Regulations that implement and are consistent with the goals, objectives and policies of the Comprehensive Plan. The Land Development Regulations at a minimum shall address the following: .....

Low Impact Development techniques.....

FLU Policy 3.4.5 Development Design Standards: In order to protect natural resources, including but not limited to aquifer recharge, karst features, native vegetation, habitat, and wildlife, new development within the Wekiva Study Area (WSA) shall implement conservation design standards including at a minimum:

.....Minimal site disturbance and alteration of terrain, through use of design techniques, such as Low Impact Development, that protect native vegetation and minimize earth movement such as reduced pavement widths, stem-wall construction, swales, and native landscaping.....

FLU Policy 7.12.5 Methods of Managing Stormwater: Consistent with the provision of services and facilities, the County shall:

Regulate stormwater management consistent with Countywide regulations with the objective of minimizing site impacts and changes in hydrology, maximizing water-quality treatment, maximizing aquifer recharge, minimizing flooding and protecting wetland systems;

Incorporate and promote Low Impact Development principles and practices in stormwater management;

CON Policy 3.3.4: Development Practices in Springsheds. In addition to providing for consistency with all provisions of the Future Land Use Element, new development and the expansion of existing development within springsheds shall be required to employ Low Impact Development (LID) and Best Management Practices identified in the DEP/DCA Publication "Protecting Florida's Springs—Land Use Planning Strategies and

Best Management Practices." Existing development shall be required to employ Low Impact Development practices and BMPs, to the greatest extent possible. Land Development Regulations shall be adopted to specify the required practices.

Analysis: Implementation of Plan policies will incorporate Low Impact Development county-wide and will adequately address low impact design.

4.20: Response to Other Comments from the St. John River Water Management District (SJRWMD)

The following issues were also raised in the SJRWMD review of the Lake County EAR. The Consultant did not identify any Comprehensive Plan policies and requests direction from the County as to whether further action is needed.

- Protection of water resources is to be consistent with District ERP and CUP rules.
- FLUM designations assigned to District property should allow District management activities.
- Transportation corridors should not affect District easements
- Policies identifying the District as receiver of easements include the statement "subject to the District's acceptance."

Analysis: The County's protection of water resources is consistent with District surface water permitting criteria and ERP rules. the County does not regulate groundwater and relies on the District to ensure information regarding the quantities of potable water available to serve existing and proposed development. FLUM designations allow for all District management activities. The County coordinates with the District on all transportation improvements and District permitting criteria should ensure that such projects do not affect District easements. Policies addressing conservation easements and similar legally binding, less-than-fee simple instruments are all subject to the approval of any receiving entity, otherwise, another entity would acquire those easements. No changes are needed to address the District's concerns.

Recommendation: The County should work with the District to ensure consistency with District rules and programs. Once the draft Comprehensive Plan has been reviewed by the District and other reviewing agencies, substantive comments and recommendations should be incorporated into the plan, as appropriate.

CHAPTER 5: CONCLUSIONS BASED ON DATA AND ANALYSIS

The following conclusions, drawn from the analysis above, guided the development of Plan amendments:

Significant and vulnerable water resources in Lake County need to be protected to preserve their environmental function and to provide an adequate water supply.

Lake County's interest in municipal water supply plans are:

- To protect the County's valuable natural resources
- To ensure that adequate water supply is available for users of Domestic Self-Supply (DSS) and central water.

The use of groundwater, which is currently the main source of potable water for Lake County, will be limited in the future due to anticipated unacceptable impacts to water resources. Therefore, other water sources must be tapped to meet future demand.

Reuse can replace potable water for non-potable uses. Alternative water supplies can meet the need for additional potable water. The development of alternative water supplies will be expensive and will require intergovernmental coordination. Demand reduction is also a viable option, although it is not anticipated to reduce the demand created by Domestic Self-Supply.

Although demand reduction and conservation techniques have not traditionally been successfully applied to DSS, the County has an interest in reducing the increased demand from DSS users. Therefore, the County should consider a range of techniques to reduce DSS demand. This may include encouraging water conservation and encouraging more development to connect to central water systems in the future.

Since Lake County is not a water provider, coordination with municipal governments is essential to achieving water supply planning objectives. Lake County cannot accomplish a complete evaluation of public water demand and supply until all the municipal water supply plans are completed. The County will need to continue to coordinate with the municipalities throughout and beyond this planning process.

A valuable mechanism, the Lake County Water Alliance, exists to help all local governments coordinate water supply planning, conservation efforts, and coordination of service areas.

The Lake County Comprehensive Plan addresses most of the water supply planning requirements contained in state statute most of the issues raised by the St. John River Water Management District in its review of the County Evaluation and Appraisal Report. Some additional plan amendments should be considered by the County.

Chapter 6: Comprehensive Plan Amendments

Based on the analysis in Chapter 4, the following Comprehensive Plan amendments are recommended. Policy additions are shown as underlines and deletions as ~~strikethroughs~~. It should be noted that the draft policies in the proposed Comprehensive Plan 2030 are to be renumbered for clarity. Therefore, all of the following policies will be renumbered. Proposed new policies do not have proposed numbers but are identifies as "New Policy" followed by the proposed language.

6.1: Future Land Use Element

6.1.1 Amendments the Future Land Use Map Series

The Future Land Use Map Series should be revised to include Map 6 on Page 6-5, which depicts the major utility service areas within Lake County.

6.1.2 Amendments to the Future Land Use Element Goals, Objectives and Policies

Amend Future Land Use Policy 7.13.6 as follows to clarify that the potable water level of service standards of municipalities should be considered in Future Land Use Map amendments. (See Section 4.1)

FLUE Policy 7.13.6: Standards for Amending the Comprehensive Plan. The County shall include within its Land Development Regulations provisions for the review of amendments to the Future Land Use Map consistent with this Comprehensive Plan. At a minimum, the Land Development Regulations shall include the following standards of review:

….

- *Demonstration that facilities and services are available within the levels of service adopted throughout the Comprehensive Plan (or the levels of service adopted by the municipality in whose utility area the proposed amendment is located), including but not limited to water supplies (including permitted quantities) and facilities, ~~and~~ sewer services, transportation, parks and recreational facilities, and schools;*

6.2: Amendments to the Conservation Element

CON Policy 3.1.7: Ensure Supply of Safe Potable Water. The County shall review regulatory data and information related to the supply of safe potable water to its residents. The County shall coordinate and cooperate with federal, state, regional agencies including the Water Management Districts on countywide ~~ground~~ potable water quality monitoring especially in those areas of existing, suspected or with the potential for ground and surface water contamination.

CON Policy 3.2.3: Surface Water Quality Restoration. The County shall continue to participate in surface water restoration programs in cooperation and coordination with the state for programs such as, but not limited to, SJRWMD's Surface Water Improvement and Management (SWIM) plans for Lake Apopka, and the Upper Ocklawaha River Basin Stormwater Management Action Plan (BMAP), Systems, programs in the Middle St. John's River Basin, and programs in the Lake George Basin of the St' John's River.

6.3: Amendments to the Potable Water Sub-Element

POT Policy 1.1.9: Coordination with Other Agencies. Lake County shall work closely with the federal, state, regional and local agencies to ensure all possible alternatives are explored and implemented with respect to new development and water conservation. This can include:

- *Define urban and rural expansion areas throughout undeveloped areas of Lake County;*
- *Require the use of reuse water wherever possible including installation of dual lines in anticipation of reuse water becoming available;*
- *Promote and facilitate Joint Planning Agreements (JPAs) between cities, and with the county and cities;*
- *Consider exploring alternative water supply options;*
- *Look for opportunities to capitalize on economies of scale;*
- *Pursue or support grant matching funding, participation, subsidized loans, and low-cost loan programs for environmental, water resource, and public welfare projects in Lake County;*
- *Assist entities with "seed" money grants for beneficial projects or develop another cooperative approach;*
- *Facilitate regional programs for Lake County entities;*
- *Create Special Water Districts in cooperation with municipalities and regulatory agencies;*
- *Water Resource Cooperation and Support Agreement developed through the JPA process;*
- *Active participation in regional water supply planning with municipalities and regulatory agencies;*
- *Promote conservation through education, incentives, and regulation;*
- *Participate with the Water Management Districts in the development of District Water Management Plans, Water Supply Assessments, and District Water Supply Plans;*
- *Encourage phasing-out septic systems where possible; and*
- *Develop incentives to connect to central water and wastewater systems*

6.4: Amendments to the Intergovernmental Coordination Element

ICE Policy 1.1.11: Joint Strategies for Water Supplies. The County shall, through its participation in the Regional Water Supply Planning Programs of the St. Johns River and Southwest Florida Water Management Districts, propose joint strategies for protection of water resources through water supply planning, specifically addressing identification and use of alternative water resources. The County shall coordinate with all water suppliers, both public and private, to ensure adequate quantities and quality of traditional and alternative potable water supplies. The County shall incorporate the data and analyses of the Water Supply Workplans of the Municipalities into future updates of its Water Supply Workplan.

New Policy: District Water Supply Plans. The County will maintain a water supply facilities work plan that is coordinated with St. Johns River Water Management District's (SJRWMD's) District Water Supply Plan by updating the work plan and related comprehensive plan policies within 18 months of an update to the SJRWMD's District Water Supply Plan that affects the County.

New Policy: Participation with Water Management Districts Water Supply Planning. The County will participate in the development of updates to the Southwest Florida and the St. Johns River Water Management District's water supply assessment and District Water Supply Plan and other water supply development-related initiatives facilitated by a Water Management District that affects the County.

New Policy: Plan for Long-Term Water Supplies: The County shall continue to work with the water management districts and municipalities on water supply plans that provide for water supply needs, encourage water conservation, and protect ground and surface water and water-dependent natural resources.

6.5: Amendments to the Concurrency Management Element

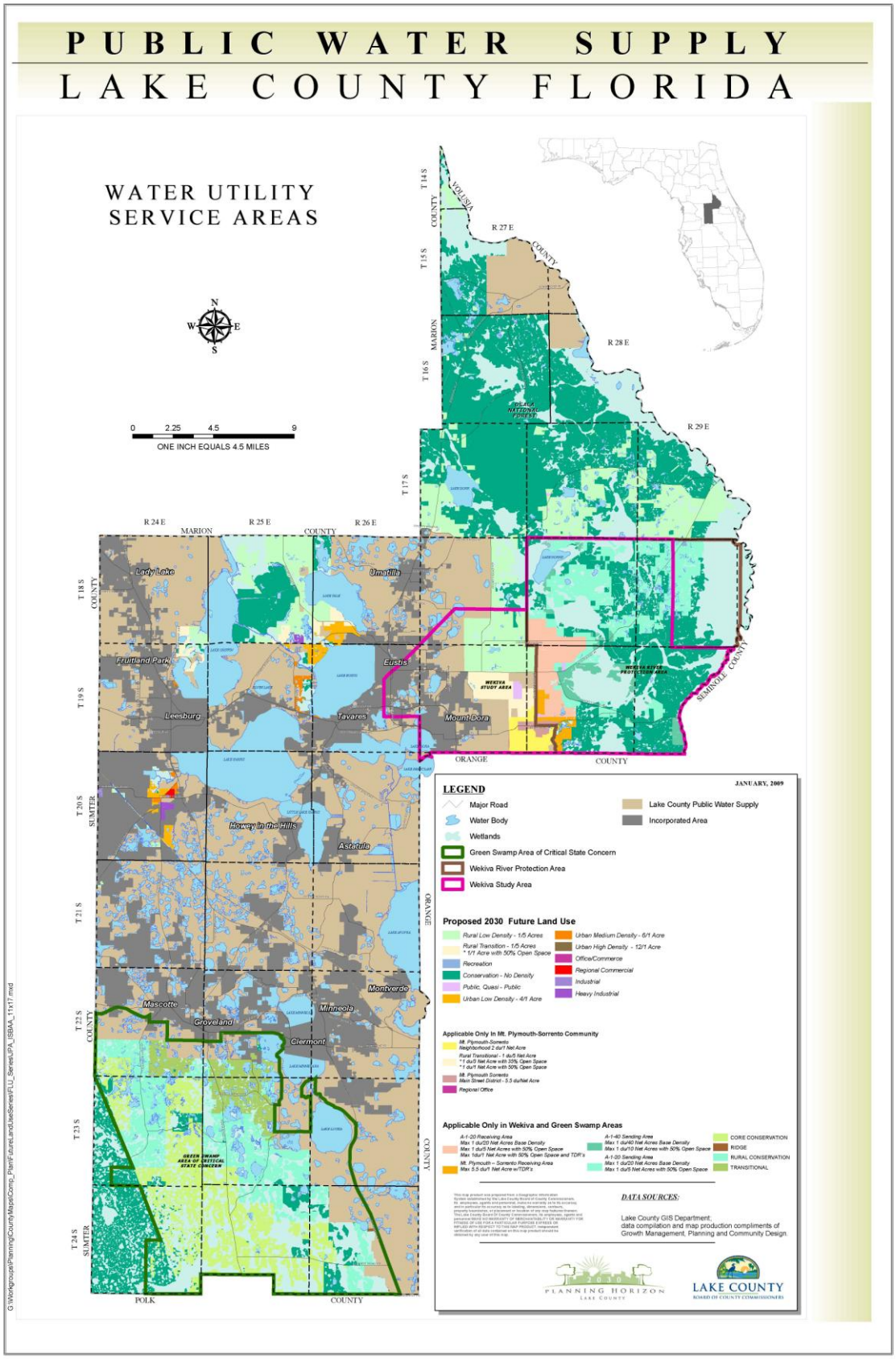
CME Policy 1.1.7: Concurrency Requirement. The Board of County Commissioners of Lake County finds that the impacts of development on public facilities within the County occur concurrent with development authorized by a final development order. Therefore, capacity for Category A facilities and services shall be available concurrent with the impacts of development. The County shall determine, prior to the issuance of development orders, whether or not there is sufficient capacity of Category A public facilities to meet the standards for levels of service for existing population and development and the proposed development concurrent with the impacts of the proposed development. For the purpose of this policy, "concurrent with" shall be defined as follows:

No final development order shall be issued by the County unless there shall be sufficient capacity of Category A public facilities to meet the standards for levels of service for the existing population and for proposed development according to the following deadlines:

1. Potable Water, Sanitary Sewer, Solid Waste, and Stormwater Management. To satisfy concurrency requirements, the County shall issue no development orders or development

permits without first consulting with the appropriate water supplier to determine whether adequate water supplies to serve the development will be available no later than the anticipated date of issuance by the County of a certificate of occupancy or its functional equivalent. Consumptive Use Permit allocations (supply) and treatment capacities for water, and facilities for water, sewer, solid waste and stormwater management must comply with adopted level of service standards (or the levels of service adopted by the municipality in whose utility area the proposed amendment is located), according to one of the following timeframes established during the concurrency determination stage of the development review process: ….

Map 6: Major Water Utility Service Areas in Lake County



APPENDIX A

CONSUMPTIVE USE PERMITS IN LAKE COUNTY

Table A-1 Golf Course CUPs Tabulation

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2002-2005)	Permit Amount (mgy)	Water Source	Revision Number
100	Green Valley Country Club	09/16/97	09/16/07	82.24		Floridan Aquifer	2
100	Green Valley Country Club	09/16/97	09/16/07	47.40	137.22	Surface/Reclaimed Water	2
279	Harbor Hills	04/12/05	04/12/07	131.1 *	150.94	Lake Griffin	6
2484	Links at Village Green	07/01/99	07/01/19	42.18	48.78	Lake Diane	3
2492	MOUNT PLYMOUTH GOLF CLUB	10/27/00	10/27/20	78.59	95.7	Floridan Aquifer	3
2629	Monarch Golf Club at Royal Highlands	12/16/02	07/24/06		106.71	Floridan Aquifer	5
2629	Monarch Golf Club at Royal Highlands	12/16/02	07/24/06	151.16	106.71	Storm Water	5
2662	Las Colinas	04/11/00	04/10/20		80.2	Floridan Aquifer	8
2662	Las Colinas	04/11/00	04/10/20	162.42	154.4	Surface/Reclaimed Water	8
2729	Silver Lake Golf Course	06/06/06	05/15/11	62.86	59.73	Floridan Aquifer	5
2843	Bella Vista Golf & Yacht Club Inc	03/08/04	03/08/09	37.9 *	90.5	Lake Harris	4
2900	Hillcrest Country Club	05/08/07	06/13/07	73.5 *	133.81	Floridan Aquifer	6
2983	Blackbear Golf Course	12/16/98	12/16/18	66.51	150.00	Blackbear Lale	4
2991	King Ridge	05/08/07		387.45 *	332.92	Floridan Aquifer	
2991	King Ridge	05/08/07		307.56 *	351.98	SW	4
2991	King Ridge	05/08/07		491.48 *	499.98	Reclaimed	
4535	Mt Dora Golf Assoc	09/14/06	04/26/25	2.95 *	7.30	Floridan Aquifer	2
4535	Mt Dora Golf Assoc	09/14/06	04/26/25	6.11 *	40.00	Reclaimed	
6320	Deer Island Country Club	08/01/01	08/01/21	98.28	126.04	PUMPS 1 & 2	5
6398	Clerbrook Resort	03/13/02	03/13/07		AUG	Floridan Aquifer	5
6398	Clerbrook Resort	03/13/02	03/13/07	31.34	42.3	Surface Water	5
6455	Pine Meadows Golf Club	12/02/98	12/02/18	43.81	91.6	Floridan Aquifer	3
50048	Country Club of Mount Dora	12/01/06	11/01/11	103.48	134.23	Floridan Aquifer	4
50135	Palisades Golf Course	03/12/02	08/11/18		AUG	Floridan Aquifer	9
50135	Palisades Golf Course	03/12/02	08/11/18	115.65 *	300.00	Lake Minneola & Spring Lake	9
50186	Swiss Fairways	07/17/02	06/07/09	42.52	52.4	Floridan Aquifer	3
50186	Swiss Fairways	07/17/02	06/07/09	74.66	85.19	Golf Course Pond	3
50280	VLS Irrigation	08/09/05	10/10/20	195.40	169.8	Floridan Aquifer	7
50280	VLS Irrigation	08/09/05	10/10/20	427.37	164.3	Lined Ponds 11,11A	7
50280	VLS Irrigation	08/09/05	10/10/20	372.90	115.00	Reclaimed	7
50807	Diamond Club	07/07/04	07/07/09	131.23 *	134.00	Floridan Aquifer	2

Table A-1: Golf Course CUPs Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2002-2005)	Permit Amount (mgy)	Water Source	Revision Number
50807	Diamond Club			143.81 *	None	Surface Water	
63048	Stonybrook West Golf Course	07/09/02	07/09/22	69.88	12.6	Floridan Aquifer	3
63048	Stonybrook West Golf Course	07/09/02	07/09/22	88.47	126.1	Reclaimed Water	3
63669	Sunset Landing	06/14/00	06/14/20		3.58	Floridan Aquifer	1
63669	Sunset Landing	06/14/00	06/14/20	1.1 *	7.85	Surface Water	1
64455	The Legends	03/12/02	06/15/18	437.80	329.08	Floridan Aquifer	7
64455	The Legends	03/12/02	06/15/18	312.92	329.08	Surface Water	
65616	The Lakes	07/30/01	07/30/06	49.93	71	Floridan Aquifer AUG	1
65616	The Lakes	07/30/01	07/30/06	67.20	78.97	Surface Water	1
81906	Heathrow Country Estates	08/13/03	08/13/23		15.3	Floridan Aquifer	1
81906	Heathrow Country Estates	08/13/03	08/13/23	102 *	93.2	City of Eustis	1
83231	Eagle Dunes Golf Club	06/10/04	06/28/22	0.00	18.54	Floridan Aquifer	3
83231	Eagle Dunes Golf Club	06/10/04	06/28/22	117.66 *	112.8	City of Eustis Reclaimed Water System	3
88103	Pennbrooke Fairways Golf Course	02/18/05	11/17/10		10.95	Floridan Aquifer AUG	2
88103	Pennbrooke Fairways Golf Course	02/18/05	11/17/10	26.22 *	65.7	Storm Water	2
94701	Sugarloaf Mountain Development - Irrigation	12/13/05	12/13/25		0	City of Minneola WWTF	1
94701	Sugarloaf Mountain Development - Irrigation	12/13/05	12/13/25		0	Lined Pond	1
94701	Sugarloaf Mountain Development - Irrigation	12/13/05	12/13/25	-	29.73	Floridan Aquifer	1
95654	Water Oaks Golf Course	04/19/05	04/19/10		0	Reclaimed Water	1
95654	Water Oaks Golf Course	04/19/05	04/19/10	69.53 *	52.00	Floridan Aquifer	1
104559	Plantation Residents Golf Club Inc	03/27/06	08/13/22	226.10	268.91	Surface Water / Reclaimed	1
					987.08	Reclaimed Water	
					1982.6887	Floridan Aquifer	
					2525.2113	Surface Water	
TOTALS				**3,335.42**	**5495**		

Average Actual Pumpage based on reported four year annual pumpage records

* Average values based on less than 4 years data record

Data Source: St.Johns River Water Management District; GIS Development; "Consumptive Use Permit Well"; Downloaded May 2007 ftp://sjr.state.fl.us/disk/regulatory/cupdata/cupstations.zip

Table A-2: Consumptive Use Permits ≥ 100,000 gpd Tabulation

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Name
88	Flowertree Nursery	6/6/1997	6/6/2007	68.45	87.23	87.23	Nursery (Misc.)	Floridan Aquifer
94	City of Leesburg Public Supply	06/10/03	07/10/04		1,416.20		Commercial/Industrial	Floridan Aquifer
94	City of Leesburg Public Supply	06/10/03	07/10/04		1,847.00		Household	Floridan Aquifer
94	City of Leesburg Public Supply	06/10/03	07/10/04		47.50		Urban landscape irrigation	Floridan Aquifer
94	City of Leesburg Public Supply	06/10/03	07/10/04	2,100.07	22.00	3,332.70	Water utility	Floridan Aquifer
100	Green Valley Country Club	9/16/1997	9/16/2007	129.63	137.22	137.22	Golf course	Surface/Reclaimed
271	Laviance	9/6/2006	1/8/2008		42.13		Freeze Protection	Floridan Aquifer
271	Laviance	9/6/2006	1/8/2008	49.60	49.60	91.73	Freeze Protection	Surface
279	Harbor Hills	04/12/05	04/12/07		151.84		Golf course	Lake Griffin
279	Harbor Hills	04/12/05	04/12/07	359.37	181.98	333.82	Household	Floridan Aquifer
282	Water Oak	04/19/05	04/19/10		90.20		Household	Floridan Aquifer
282	Water Oak	04/19/05	04/19/10		1.90		Recreation area	Floridan Aquifer
282	Water Oak	04/19/05	04/19/10		10.60		Unaccounted-for	Floridan Aquifer
282	Water Oak	04/19/05	04/19/10		2.90		Urban landscape irrigation	Floridan Aquifer
282	Water Oak	04/19/05	04/19/10	81.60	0.64	106.24	Water utility	Floridan Aquifer
286	Lake County	11/18/2005	9/3/2007	42.02	69.16	69.16	Freeze protection (Citrus)	Floridan Aquifer
1665	S. T. BROWN NURSERY	10/9/1998	10/9/2008	none reported	48.79	48.79	Freeze protection (Citrus)	Ground
2387	474 Sand Mine	03/07/06	03/07/26		175.52		Mining	Floridan Aquifer
2387	474 Sand Mine	03/07/06	03/07/26		4,005.54		Mining	Mine Pit
2387	474 Sand Mine	03/07/06	03/07/26		5,890.50		Mining	Mine Pit
2387	474 Sand Mine	03/07/06	03/07/26		0.75		Household	Surficial Aquifer
2387	474 Sand Mine	03/07/06	03/07/26		1.12		Household	Floridan Aquifer
2387	474 Sand Mine	03/07/06	03/07/26	5,894.84	0.34	10,073.76	Urban landscape irrigation	Surficial Aquifer
2391	Florida Rock Industries Inc	03/07/06	11/08/20		10.00		Mining	Floridan Aquifer
2391	Florida Rock Industries Inc	03/07/06	11/08/20		2,828.76		Mining	dredge lake #2
2391	Florida Rock Industries Inc	03/07/06	11/08/20	3.31	0.30	2,839.06	Household	Floridan Aquifer
2392	Southlake Utilities	01/30/04	01/30/07	377.31	919.80	919.80	Utility Supplied	Floridan Aquifer
2394	Lake Pretty	12/4/2006	8/26/2018	48.73	120.61	120.61	Agricultural (Citrus)	Floridan Aquifer
2416	Oak Springs MHP	7/7/2004	7/7/2024		2.15		Commercial/Industrial	Floridan Aquifer
2416	Oak Springs MHP	7/7/2004	7/7/2024		38.83		Household	Floridan Aquifer
2416	Oak Springs MHP	7/7/2004	7/7/2024	68.45	4.78	45.76	Water utility	Floridan Aquifer
2419	Silver Springs Citrus	05/07/02	05/07/22		292.00		Commercial/Industrial	Floridan Aquifer
2419	Silver Springs Citrus	05/07/02	05/07/22	161.73	1,445.40	1,737.40	Essential	Floridan Aquifer
2433	Green Swamp Groves	04/16/01	04/16/21		93.62		Agricultural (Citrus)	Floridan Aquifer
2433	Green Swamp Groves	04/16/01	04/16/21	24.74	22.16	115.78	Freeze protection (Citrus)	Floridan Aquifer
2436	Ridge Grove	2/18/2003	2/18/2023	14.40	46.73	46.73	Agricultural (Citrus)	Floridan Aquifer
2440	Merry Gro Farms	10/11/05	10/11/10		15.21		Freeze protection (Misc.)	Floridan Aquifer
2440	Merry Gro Farms	10/11/05	10/11/10	242.94	183.29	198.50	Nursery (Misc.)	Floridan Aquifer

Table A-2: Consumptive Use Permits ≥ 100,000 gpd Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)
2445	Florida Food Products	11/10/1998 11/10/2018	33.10	233.71 233.71	Commercial/Industrial	Floridan Aquifer
2453	City of Mascotte		125.80	133.6 133.6	household/utility	Floridan Aquifer
2454	Sunlakes Estates	09/19/06 08/30/26	97.63	112.40 112.40	Household	Floridan Aquifer
2460	7L Howey-in-the-Hills	2/3/2006 5/19/2018	0.00	14.40 14.40	Agricultural (Citrus)	
2462	Villa City	4/23/2001 4/23/2021	31.22	69.13 69.13	Agricultural (Citrus)	Floridan Aquifer
2464	Citrus World	3/25/2004 2/9/2009	255.69	800 800	Agricultural (Citrus)	Surface
2475	Liner Source Inc	4/16/2002 4/16/2022	41.39	97.76 97.76	Nursery	Ground
2478	City of Clermont	09/10/02 09/10/22		775.26	Utility Supplied	Floridan Aquifer
2478	City of Clermont	09/10/02 09/10/22	1,268.35	1,917.71 2,692.97	Utility Supplied	Floridan Aquifer
2482	City of Fruitland Park	06/13/06 06/13/08	179.40	288.35 288.35	Household	Floridan Aquifer
2484	Links at Village Green	7/1/1999 7/1/2019	115.33	79.50 79.50	Golf course	Lake Diane
2485	Gorgeous Groves	04/15/03 04/15/23		77.77	Agricultural (Citrus)	Floridan Aquifer
2485	Gorgeous Groves	04/15/03 04/15/23		5.30	Agricultural (Pasture)	Floridan Aquifer
2485	Gorgeous Groves	04/15/03 04/15/23	8.57	0.18 83.25	Livestock	Floridan Aquifer
2487	Hlochee WMA - Riddick Trust Grove	04/23/01 04/23/21		93.62	Agricultural (Citrus)	Floridan Aquifer
2487	Hlochee WMA - Riddick Trust Grove	04/23/01 04/23/21	0.00	27.88 121.50	Freeze protection (Citrus)	Floridan Aquifer
2489	Lake Fern Inc	11/9/1998 11/9/2018	40.00	75.4 75.4	Nursery	Ground
2492	MOUNT PLYMOUTH GOLF CLUB	10/27/2000 10/27/2020	78.5 *	95.70 95.70	Golf course	Floridan Aquifer
2502	Holloway Tree	02/24/99 02/24/19	33.21	149.30 149.30	Nursery (Misc.)	Floridan Aquifer
2504	Water Conserv II Reuse Facilities	09/13/05 09/13/15		568.70	Freeze protection (Citrus)	Floridan Aquifer
2504	Water Conserv II Reuse Facilities	09/13/05 09/13/15	119.96	131.40 700.10	Reuse Supplementation	Floridan Aquifer
2527	Central Fla Nursery & Landscaping Inc.	9/23/2002 9/23/2022	47.12	65.64 65.64	Nursery	Ground
2531	Thousand Trails	8/2/2006 8/2/2026	35.81	54.75 54.75	Household	Ground
2537	Gissy Groves	7/25/2003 7/25/2023	15.37	43.61 43.61	Agricultural (Citrus)	Ground
2560	Dye/Cooper Block	3/24/2003 3/24/2023	15.95	53.59 53.59	Agricultural (Citrus)	Ground
2567	Loma Linda Corp	11/30/01 11/30/21		29.60	Agricultural (Citrus)	Floridan Aquifer
2567	Loma Linda Corp	11/30/01 11/30/21		72.02	Agricultural (Citrus)	Floridan Aquifer
2567	Loma Linda Corp	11/30/01 11/30/21		16.18	Agricultural (Misc.)	Floridan Aquifer
2567	Loma Linda Corp	11/30/01 11/30/21		3.43	Freeze protection (Citrus)	Floridan Aquifer
2567	Loma Linda Corp	11/30/01 11/30/21		7.15	Freeze protection (Citrus)	Floridan Aquifer
2567	Loma Linda Corp	11/30/01 11/30/21	61.80	1.50 129.88	Livestock	Floridan Aquifer
2571	Howey Block	5/31/2001 5/31/2021	29.00	59.19 59.19	Agricultural (Citrus)	Ground
2574	Hygrade Timber	8/1/2003 7/3/2006		46.00 46.00	Commercial/Industrial	Surface
2576	Location-3-40	4/23/1999 4/23/2019	24.37	37.38 37.38	Agricultural (Citrus)	Surface
2581	Marian Gardens	09/07/04 09/07/24	715.64	1,215.00 1,215.00	Nursery (Misc.)	Floridan Aquifer
2623	JOHN BECK	3/18/1997 3/18/2012	13.41	36.97 36.97	Agricultural (Citrus)	Ground
2629	Monarch Golf Club at Royal Highlands	12/16/02 07/24/06	644.71	106.71 106.71	Golf course	Floridan Aquifer
2631	Lust Farms	12/29/2005 6/13/2015	0.00	145.19 145.19	Nursery	Ground

Table A-2: Consumptive Use Permits ≥ 100,000 gpd Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Name
2632	Aqua Utilities Florida - Valencia Terr	11/30/2006	8/11/2020	28.32	41.08	41.08	Household	Ground
2634	City of Eustis	3/13/2007	3/13/2012		33.81		Urban landscape irrigation	Ground
2634	City of Eustis	3/13/2007	3/13/2012	1021.90	1,353.30	1,387.11	Household	Ground
2640	Tuscanooga Lakes LLC	10/31/2005	11/16/2021	1.06	37.05	37.05	Agricultural (Citrus/Freeze Protection, Pasture)	Ground
2644	Silver Lakes/Western Shores	05/09/06	05/09/11	288.58	251.08	251.08	Utility Supplied	Floridan Aquifer
2646	Umatilla Municipal Water System	09/11/01	02/13/06	142.53	193.82	193.82	Household	Floridan Aquifer
2651	Serenby	12/21/2006	8/27/2022	2.96	72	72	Agricultural (Citrus/Freeze Protection,Nursery)	Ground
2653	Maguire 455	8/13/2001	8/13/2021	39.67	87.23	87.23	Agricultural (Citrus)	Ground
2655	Moon Lake	9/2/1998	9/2/2008	11.01	38.63	38.63		Surface
2662	Las Colinas	04/11/00	04/10/20		80.20		Golf course	Floridan Aquifer
2662	Las Colinas	04/11/00	04/10/20		154.40		Golf course	Lake #4
2662	Las Colinas	04/11/00	04/10/20	162.42 *	29.40	264.00	Household	Floridan Aquifer
2664	Coleman Cline	10/12/01	10/12/21		125.78		Agricultural (Citrus)	Lake Harris
2664	Coleman Cline	10/12/01	10/12/21	41.48	37.47	163.25	Freeze protection (Citrus)	Floridan Aquifer
2665	Drake Point	7/17/2001	7/17/2021	16.33	43.62	43.62	Agricultural (Citrus)	Surface
2670	L & E Grove	9/20/2004	9/20/2024	2.35	41.03	41.03	Agricultural (Citrus)	Ground
2671	Town of Montverde	2/8/2007	2/8/2009	125.25	127.91	127.91	Household	Ground
2672	Parker	6/15/2005	3/24/2025	0.52	76.15	76.15	Agricultural (Citrus)	Ground
2678	Oak Grove Fernery	11/16/2001	11/16/2021	0.00	37.0	37.0	Agricultural (Citrus)	Ground
2700	Lake Utility Services Inc.	04/11/06	04/12/11		73.00		Commercial/Industrial	Floridan Aquifer
2700	Lake Utility Services Inc.	04/11/06	04/12/11		1,112.89		Household	Floridan Aquifer
2700	Lake Utility Services Inc.	04/11/06	04/12/11		53.66		Urban landscape irrigation	Floridan Aquifer
2700	Lake Utility Services Inc.	04/11/06	04/12/11	604.67	138.70	1,378.24	Water utility	Floridan Aquifer
2701	Kings Cove Subdivision	4/21/2006	4/21/2026	29.10	49.75	49.75	Household	Ground
2704	Greenacres Fernery & Citrus	7/18/2001	7/18/2021	48.19	37.49	37.49	Agricultural (Citrus/Nursery)	Ground
2714	Sunset Hill Groves Partnership	9/23/2002	9/23/2022	33.63	48.6	48.6	Agricultural	Ground
2716	Benjamin O Benham	6/22/2004	3/24/2008	10.93	74.3	74.3	Agricultural (sod)	Ground
2717	Pennbrooke Utilities Inc	09/14/05	09/14/25		7.67		Commercial/Industrial	Floridan Aquifer
2717	Pennbrooke Utilities Inc	09/14/05	09/14/25		136.15		Household	Floridan Aquifer
2717	Pennbrooke Utilities Inc	09/14/05	09/14/25		10.95		Urban landscape irrigation	Floridan Aquifer
2717	Pennbrooke Utilities Inc	09/14/05	09/14/25	101.76	10.95	165.72	Water utility	Floridan Aquifer
2718	Plantation at Leesburg	04/08/03	08/13/22		8.60		Commercial/Industrial	Floridan Aquifer
2718	Plantation at Leesburg	04/08/03	08/13/22		383.04		Household	Floridan Aquifer

Table A-2: Consumptive Use Permits ≥ 100,000 gpd Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Name
2718	Plantation at Leesburg	04/08/03	08/13/22		31.54		Unaccounted-for	Floridan Aquifer
2718	Plantation at Leesburg	04/08/03	08/13/22		131.88		Urban landscape irrigation	Floridan Aquifer
2718	Plantation at Leesburg	04/08/03	08/13/22	71.93	18.35	573.41	Water utility	Floridan Aquifer
2728	Record Buck Farms	6/4/2002	11/30/2021	24.49	87.12	87.12	Nursery	Ground
2729	Silver Lake Golf Course	6/6/2006	5/15/2011	62.86 *	59.73	59.73	Golf course	Ground
2742	Wekiva Falls Resort @ Mastodon Springs	5/12/2004	5/12/2024	none reported	36.5	36.5	Commercial/industrial, household, recreational area, urban landscape irrigation, and fire protection.	Ground
2754	Pine Ridge Dairy Inc	11/16/2000	11/16/2020	289.54	69.54	69.54	Agricultural (livestock/pasture)	Ground
2757	Malibu Ferns	5/17/2001	5/17/2021	117.34	43.1	43.1	Nursery	Ground
2763	Senninger Irrigation	06/28/02	06/28/22		47.39		Commercial/Industrial	Floridan Aquifer
2763	Senninger Irrigation	06/28/02	06/28/22		72.84		Commercial/Industrial	Floridan Aquifer
2763	Senninger Irrigation	06/28/02	06/28/22		2.16		Essential	Floridan Aquifer
2763	Senninger Irrigation	06/28/02	06/28/22	43.45	0.27	122.66	Household	Floridan Aquifer
2765	City of Tavares Public Water Supply	02/08/05	10/07/10		193.88		Commercial/Industrial	Floridan Aquifer
2765	City of Tavares Public Water Supply	02/08/05	10/07/10		753.98		Household	Floridan Aquifer
2765	City of Tavares Public Water Supply	02/08/05	10/07/10		75.40		Unaccounted-for	Floridan Aquifer
2765	City of Tavares Public Water Supply	02/08/05	10/07/10		32.31		Urban landscape irrigation	Floridan Aquifer
2765	City of Tavares Public Water Supply	02/08/05	10/07/10	641.90	21.54	1,077.11	Water utility	Floridan Aquifer
2771	Lakeview Terrace	12/8/2005	2/14/2020	14.33	41.2	41.2	Household	Ground
2780	Clermont East Sand Mine	10/09/01	10/09/21		725.00		Mining	Floridan Aquifer
2780	Clermont East Sand Mine	10/09/01	10/09/21	1,011.81	1,672.00	2,397.00	Mining	Mine Lake
2791	Eagles Landing	11/18/2005	2/8/2022	107.28	93.46	93.46	Agricultural (Citrus)	Ground
2793	Crothall Laundry Services	4/29/2004	7/25/2023	25.72	40.52	40.52	Industrial, Potable and Irrigation	Ground
2798	Pine Lakes	09/08/87	09/08/94		48.20		Freeze protection (Fern)	Floridan Aquifer
2798	Pine Lakes	09/08/87	09/08/94	408.64	58.80	107.00	Nursery (Fern)	Floridan Aquifer
2810	Lake Griffin Isles	4/15/2003	4/15/2008	34.84	48.59	48.59	Public supply	Ground
2826	Twin Lakes	3/4/2003	3/4/2023	30.15	81.01	81.01	Agricultural (Citrus)	Ground
2827	Crosland Britt	05/11/04	05/11/24		78.00		Nursery (Misc.)	Retention Ponds
2827	Crosland Britt	05/11/04	05/11/24	190.37	150.84	228.84	Nursery (Misc.)	Floridan Aquifer
2834	Lake County Resource Recovery	09/19/03	09/19/23	100.84	125.00	125.00	Commercial/Industrial	Floridan Aquifer
2840	Woodland Heritage M.H.P.	4/28/2004	7/10/2023		2.66		Water utility	Ground
2840	Woodland Heritage M.H.P.	4/28/2004	7/10/2023	19.90	33.23	35.89	Household	Ground
2843	Crescendo Management Inc	7/26/2006	3/8/2009	11.19	90.5	90.5	Commercial/Industrial	Surface

Table A-2: Consumptive Use Permits > 100,000 gpd Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Name
2849	Clermont West Sand Mine	09/10/02	09/10/05	508.34	1,030.00	1,030.00	Dewatering	Perimeter Ditch
2850	Beck Grove	6/23/2004	6/23/2024	18.33	59.19	59.19	Agricultural (Citrus)	Ground
2852	Stone Mountain Nursery	3/6/2003	3/6/2023	37.31	81.62	81.62	Nursery	Ground
2860	Hawthorne at Leesburg	06/13/06	07/25/07		2.10		Commercial/Industrial	Floridan Aquifer
2860	Hawthorne at Leesburg	06/13/06	07/25/07		20.00		Commercial/Industrial	unnamed lake
2860	Hawthorne at Leesburg	06/13/06	07/25/07		124.70		Household	Floridan Aquifer
2860	Hawthorne at Leesburg	06/13/06	07/25/07		24.00		Recreation area	Floridan Aquifer
2860	Hawthorne at Leesburg	06/13/06	07/25/07		14.60		Urban landscape irrigation	Floridan Aquifer
2860	Hawthorne at Leesburg	06/13/06	07/25/07	470.37	2.70	188.10	Water utility	Floridan Aquifer
2886	City of Minneola - Public Supply	09/22/05	02/09/10	388.77	916.15	916.15	Household	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08		10.95		Commercial/Industrial	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08		131.40		Household	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08		0.37		Unaccounted-for	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08		7.30		Urban landscape irrigation	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08	106.41	7.30	157.32	Water utility	Floridan Aquifer
2898	Lake Correctional Institution	11/16/2000	11/16/2020		2.69		Agricultural (Misc.)	Ground
2898	Lake Correctional Institution	11/16/2000	11/16/2020		2.50		Urban landscape irrigation	Ground
2898	Lake Correctional Institution	11/16/2000	11/16/2020	68.45	61.32	66.51	Household	Ground
2921	Good Earth	10/05/00	10/05/20		47.30		Freeze protection (Fern)	Floridan Aquifer
2921	Good Earth	10/05/00	10/05/20	4.64	57.80	105.10	Nursery (Fern)	Floridan Aquifer
2923	Dura-Stress Inc.	5/31/2001	5/31/2021	25.50	85.07	85.07	Commercial/industrial, household and urban landscape irrigation	Ground
2930	Fakih Grove	8/11/2000	8/11/2020	105.25	49.85	49.85	Agricultural (Citrus)	Ground
2939	Tuscanooga Lakes LLC	10/31/2005	11/16/2020	13.45	57.61	57.61	Agricultural (Citrus)	Ground
2941	Dockery Farms	11/15/00	11/15/20		4.80		Agricultural (Citrus)	Floridan Aquifer
2941	Dockery Farms	11/15/00	11/15/20		95.09		Agricultural (Pasture)	Floridan Aquifer
2941	Dockery Farms	11/15/00	11/15/20		1.43		Freeze protection (Citrus)	Floridan Aquifer
2941	Dockery Farms	11/15/00	11/15/20	5.60	0.88	102.20	Livestock	Floridan Aquifer
2955	Bryan Ferns	4/15/2003	4/15/2023	322.85	55.02	55.02	Nursery (Fern)	Ground
2958	Turnpike Sand Plant	9/12/2006	3/8/2025		105.95		Commercial/Industrial	Ground
2958	Turnpike Sand Plant	9/12/2006	3/8/2025	0.00	3333.66	3439.61	Commercial/Industrial	Surface
2959	Upson Downs	10/12/04	10/12/24		29.43		Household	Floridan Aquifer
2959	Upson Downs	10/12/04	10/12/24	28.55	136.19	165.62	Household	Onsite Lake
2978	IGOU	6/25/2002	6/25/2022	19.75	46.73	46.73	Agricultural (Citrus)	Ground
2983	Blackbear Golf Course	12/16/98	12/16/18	53.91	150.00	150.00	Golf course	Blackbear Lale
2991	Kings Ridge	5/8/2007	5/8/2027		261.78		Golf course	Surface

Table A-2: Consumptive Use Permits ≥ 100,000 gpd Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Name
2991	Kings Ridge	5/8/2007	5/8/2027	886.05	260.84	522.62	Urban landscape irrigation	Ground
3312	Long and Scott Farm	1/12/1999	1/12/2019		50.00	50.00	Agricultural (Citrus)	Surface
3312	Long and Scott Farm	1/12/1999	1/12/2019	858.20	1869.37	1919.37	Household	Ground
4486	Crabb Grove	6/6/2006	5/31/2026	4.54	49.85	49.85	Agricultural (Citrus)	Ground
4501	Banyan Construction	11/21/2005	9/20/2006	0.55	155.74	155.74	Agricultural (Citrus)	Ground
4517	OSGOOD GROVE	7/29/1996	7/29/2011	3.80	47.00	47.00	Agricultural (Citrus)	Ground
4535	Mt Dora Golf Assoc	9/14/2006	4/26/2025	9.06 *	40.00	40.00	Golf course Agricultural (Citrus/pasture/landscape/livestock)	Surface
4536	Taylor Home Grove	11/1/1996	11/1/2006	7.38	36.74	36.74		Ground
4542	Journey Circle M Ranch	4/4/2007	4/4/2027	12.79	83.63	83.63	Agricultural (Citrus)	Ground
5709	Silver Springs Citrus	02/24/04	02/24/07	56.54	136.00	136.00	Commercial/Industrial	Floridan Aquifer
5965	Groveland Inc.	01/18/00	01/18/20		21.94		Agricultural (Citrus)	Conserv 2
5965	Groveland Inc.	01/18/00	01/18/20		127.24		Agricultural (Citrus)	Conserv 2
5965	Groveland Inc.	01/18/00	01/18/20		7.60		Freeze protection (Citrus)	Conserv 2
5965	Groveland Inc.	01/18/00	01/18/20	0.00	37.90	194.68	Freeze protection (Citrus)	Conserv 2
6207	Cutrale Citrus Juices USA, Inc.	11/11/03	11/11/23	224.47	475.00	475.00	Commercial/Industrial	Floridan Aquifer
6254	Southern Lake Co Acreage	09/10/96	09/10/06		240.07		Agricultural (Citrus)	CONSERV II
6254	Southern Lake Co Acreage	09/10/96	09/10/06	0.00	85.80	325.87	Freeze protection (Citrus)	Floridan Aquifer
6398	Clerbrook Resort	3/13/2002	3/13/2007		42.3		Golf course	Surface
6398	Clerbrook Resort	3/13/2002	3/13/2007	40.51	53.4	53.4	Household	Ground
6455	Pine Meadows Golf Course	12/2/1998	12/2/2018	43.81 *	91.6	91.6	Golf course	Ground
6543	Morgan Lanier	2/24/1999	2/24/2019	25.67	43.1	43.1	Nursery (Fern)/freeze protection	Surface
10377	Rowe Groves	8/11/2000	8/11/2020	13.55	40.51	40.51	Irrigation/Freeze Protection (Citrus)	Ground
10846	Barrington Estates Wells	8/14/2006	8/14/2011		32.72		Household	Ground
10846	Barrington Estates Wells	8/14/2006	8/14/2011		1.90		Urban landscape irrigation	Ground
10846	Barrington Estates Wells	8/14/2006	8/14/2011	30.82	3.34	37.96	Water utility	Ground
50048	Country Club of Mount Dora	12/01/06	11/01/11	139.20	134.23	134.23	Golf course	Floridan Aquifer
50049	Town of Lady Lake	07/11/06	07/11/26	167.31	250.78	250.78	Household	Floridan Aquifer
50081	Chris Blanton	09/25/98	09/25/03		109.70		Agricultural (Citrus)	Floridan Aquifer
50081	Chris Blanton	09/25/98	09/25/03	2.19	38.00	147.70	Freeze protection (Citrus)	Floridan Aquifer
50113	Jeff Boykin	12/1/2006	4/17/2011	0.00	38.5	38.5	Agricultural (Citrus/livestock)	Ground
50115	Pine Island PUD	06/10/03	06/10/08		184.10		Household	Floridan Aquifer
50115	Pine Island PUD	06/10/03	06/10/08	6.70	186.85	370.95	Urban landscape irrigation	Floridan Aquifer
50128	Bartlett Groves	6/11/1998	6/11/2018	3.22	68.53	68.53	Agricultural (Citrus)	Ground

Table A-2: Consumptive Use Permits ≥ 100,000 gpd Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Name
50145	Groveland Grove	8/10/2004	8/10/2024	7.89	52.97	52.97	Agricultural (Citrus)	Ground
50147	City of Mount Dora	12/13/05	12/13/25		116.22		Commercial/Industrial	Floridan Aquifer
50147	City of Mount Dora	12/13/05	12/13/25		1,007.27		Household	Floridan Aquifer
50147	City of Mount Dora	12/13/05	12/13/25		38.74		Unaccounted-for	Floridan Aquifer
50147	City of Mount Dora	12/13/05	12/13/25	947.34	129.14	1,291.37	Urban landscape irrigation	Floridan Aquifer
50152	Wedgewood Homeowners Ass., Inc	8/29/2003	8/29/2023	56.11	66.806	66.806		Ground
50159	Hi Acres Nursery	06/06/06	03/31/26	13.19	116.00	116.00	Nursery (Misc.)	Floridan Aquifer
50176	WFR Lake Jem	12/30/1997	2/29/2012	13.58	38.6	38.6	Nursery (Misc.)	Ground
50178	Astor-Astor Park Water Assoc.	05/07/98	05/07/13	108.05	133.50	133.50	Household	Floridan Aquifer
50183	Park Place	8/10/2004	8/12/2018	100.67	67.8	67.8	Irrigation	Ground
50186	Swiss Fairways	7/17/2002	6/7/2009		52.4	52.4	Golf course	Ground
50186	Swiss Fairways	7/17/2002	6/7/2009	85.63	85.19	85.19	Golf course	Surface
50207	Tulley Dura-Rock	10/11/2006	10/11/2016	28.57	61.32	61.32	Commercial/Industrial	Ground
50214	McKinnon Groves	3/13/1998	3/13/2018		39.08	39.08	Agricultural (Citrus)	Ground
50214	McKinnon Groves	3/13/1998	3/13/2018	3.33	73.87	73.87	Agricultural (Citrus)	Surface
50220	Jon's Nursery	02/10/98	02/10/13		3.00		Freeze protection (Fern)	Wholly owned pond
50220	Jon's Nursery	02/10/98	02/10/13		2.20		Household	Floridan Aquifer
50220	Jon's Nursery	02/10/98	02/10/13	566.66	210.00	215.20	Nursery (Fern)	Floridan Aquifer
50226	Simpson Fruit Co.	2/17/1998	2/17/2008	210.59	157.44	157.44	Agricultural (Citrus)	Ground
50238	Robert Hart	9/24/1998	9/24/2018	20.50	37.54	37.54	Agricultural (Citrus)	Ground
50239	Lake Trimbey Groves	5/13/1998	5/13/2018	5.47	67.96	67.96	Nursery (Misc.)	Ground
50243	Hickory Point	6/7/1999	6/7/2019	315.29	62.00	62.00	Recreation area	Surface
50273	Lake Hermosa Village	5/4/2005	2/22/2021	26.35	66.05	66.05	Agricultural (Citrus)	Ground
50279	Village Center Community Development District	07/12/05	07/12/25		169.00		Commercial/Industrial	Floridan Aquifer
50279	Village Center Community Development District	07/12/05	07/12/25		1,281.88		Household	Floridan Aquifer
50279	Village Center Community Development District	07/12/05	07/12/25		158.78		Unaccounted-for	Floridan Aquifer
50279	Village Center Community Development District	07/12/05	07/12/25		137.97		Urban landscape irrigation	Floridan Aquifer
50279	Village Center Community Development District	07/12/05	07/12/25	3,047.10	8.03	1,755.65	Water utility	Floridan Aquifer
50280	VLS Irrigation	08/09/05	06/13/20		66.93		Golf course	Lined Ponds 6,6A,6B
50280	VLS Irrigation	08/09/05	06/13/20		115.00		Golf course	VCCDD WWTP
50280	VLS Irrigation	08/09/05	06/13/20	1,702.32	133.30	315.23	Golf course	Floridan Aquifer
50291	Home Grove	6/6/1998	6/6/2018	21.98	43.6	43.6	Agricultural (Citrus)	Ground
50318	Lake Kirkland Nursery	03/07/00	03/07/20		84.02		Agricultural (Citrus)	Floridan Aquifer

Table A-2: Consumptive Use Permits ≥ 100,000 gpd Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Name
50318	Lake Kirkland Nursery	03/07/00	03/07/20		25.02		Freeze protection (Citrus)	Kirkland Lake
50318	Lake Kirkland Nursery	03/07/00	03/07/20		39.11		Nursery (Misc.)	unnamed canal
50318	Lake Kirkland Nursery	03/07/00	03/07/20	13.04	47.80	195.95	Nursery (Misc.)	Floridan Aquifer
50334	Park At Wolf Branch Oaks	3/14/2006	1/19/2026	11.42	50.11	50.11	Public Supply/Irrigation	Ground
50598	Alan Bradley	9/24/1998	9/24/2018	0.00	48.33	48.33	Agricultural (Pasture/livestock)	Ground
50736	O'Brien 1-6	09/12/00	09/12/20		146.42		Agricultural (Citrus)	Floridan Aquifer
50736	O'Brien 1-6	09/12/00	09/12/20		2.93		Essential	Floridan Aquifer
50736	O'Brien 1-6	09/12/00	09/12/20		34.90		Freeze protection (Citrus)	Floridan Aquifer
50736	O'Brien 1-6	09/12/00	09/12/20	44.55	5.91	190.16	Urban landscape irrigation	Floridan Aquifer
50807	Diamond Club	07/07/04	07/07/09	131.23 *	134.00	134.00	Golf course	Floridan Aquifer
62724	Fairways at Mt. Plymouth	10/4/2005	4/28/2010	18.17	37.86	37.86	Household	Ground
63398	Hudson Tree Farm	1/18/2000	1/18/2020	6.06	56.58	56.58	Nursery (Misc.)	Ground
64455	The Legends	03/12/02	01/08/05		170.41		Golf course	Pond
64455	The Legends	03/12/02	01/08/05	531.37	158.67	329.08	Urban landscape irrigation	Pond
65573	Hurley Peat Mine	04/11/06	11/16/20		84.00		Agricultural (Sod)	Apopka/Beauclair
65573	Hurley Peat Mine	04/11/06	11/16/20	38.21	676.00	760.00	Mining Dewatering	Ground
66695	Hancock Park	10/23/2000	10/23/2020	24.64	42.744	42.744	Urban landscape irrigation	Ground
81093	East Ridge High School	12/31/2001	12/31/2006	19.84	82.42	82.42	Landscape/Recreation irrigation	Ground
81906	Heathrow Country Estates	08/13/03	08/13/23		15.30		Golf course	Lake 3
81906	Heathrow Country Estates	08/13/03	08/13/23	160.99	139.38	154.68	Golf course	Reclaimed
83231	Eagle Dunes Golf Club	06/10/04	06/28/22		0.76		Commercial/Industrial	Floridan Aquifer
83231	Eagle Dunes Golf Club	06/10/04	06/28/22		2.30		Essential	City of Eustis Reclaimed Water System
83231	Eagle Dunes Golf Club	06/10/04	06/28/22	172.86	112.80	115.86	Golf course	City of Eustis Reclaimed Water System
85182	Far Reach Ranch	12/18/2003	12/18/2023	7.19	71.54	71.54	Agricultural - blueberries	Surface
85195	Heathrow Country Estates	07/02/03	07/02/09	10.85	100.38	100.38	Household	Floridan Aquifer
86742	Hyponex Peat Mine	07/12/05	04/08/09	158.75	363.82	363.82	Mining Dewatering and Processing	Schoolhouse Pond
87418	Sleepy Hollow Recreation Facility	5/12/2003	3/24/2023	36.11	44.00	44.00	Irrigation (Recreational Turf)	Ground
88103	Pennbrooke Fairways	2/18/2005	11/17/2010	50.03	65.7	65.7	Golf course	Surface
91867	DOT Clay LLC	06/07/05	06/08/12	none reported	936.00	936.00	Commercial/Industrial	Ditch Pond
93176	Lake Cogen	03/08/05	03/08/25	142.30	400.00	400.00	Commercial/Industrial	Floridan Aquifer
94701	Sugarloaf Mountain Development - Irrigation	12/13/05	12/13/25	none reported	29.73	29.73	Golf course	Floridan Aquifer

Table 1-6 Consumptive Use Permits ≥ 100,000 gpd Tabulation cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Name
95654	Water Oaks Golf Course	4/19/2005	4/19/2010	79.70	52.00	52.00	Golf course	Ground
100086	Clearwater Reserve	10/23/2006	8/29/2026	none reported	58.72	58.72	Urban landscape irrigation	Ground
102732	Lakes of Mount Dora	06/06/06	05/22/08	none reported	175.96	175.96	Urban landscape irrigation	Man-made Lakes
103264	Youth Camp Peat Mine	2/13/2007	2/13/2017	none reported	998.4	998.4	Mining Dewatering	Surface
104559	Plantation Residents Golf Club Inc	3/27/2006	8/13/2022		89.63	89.63	Golf course	Ground
104559	Plantation Residents Golf Club Inc	3/27/2006	8/13/2022		89.63	89.63	Golf course	Surface
104559	Plantation Residents Golf Club Inc	3/27/2006	8/13/2022	258.04	89.65	89.65	Golf course	Surficial
105467	Cascades at Groveland	1/25/2007	1/30/2010	none reported	82.00	82.00	Urban landscape irrigation	Ground
TOTALS				**33,039.65**	**60,724.78**			

* Average values based on less than 6 year record
Data Source: St. Johns River Water Management District; GIS Development; "Consumptive Use Permit Well";
Downloaded May 2007 ftp://sjr.state.fl.us/disk/regulatory/cupdata/cupstations.zip

Table A-3: 4 - Inch Well CUPs Tabulation*

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Official Name
289	Harbor Oaks	01/19/06	11/11/25		19.98		Household	Floridan Aquifer
289	Harbor Oaks	01/19/06	11/11/25		0.50		Urban landscape irrigation	Floridan Aquifer
289	Harbor Oaks	01/19/06	11/11/25	16.30	2.28	22.76	Water utility	Floridan Aquifer
971	Troy Masters	10/30/98	10/30/18		79.30		Agricultural (Misc.)	Floridan Aquifer
971	Troy Masters	10/30/98	10/30/18		48.30		Agricultural (Potatoes)	Floridan Aquifer
971	Troy Masters	10/30/98	10/30/18	22.58	0.32	127.92	Commercial & industrial process	Floridan Aquifer
1669	SERVICE ICE COMPANY	08/29/06	06/09/26	25.31	44.00	44.00	Commercial & industrial process	Floridan Aquifer
2387	474 Sand Mine	03/07/06	03/07/26		0.00		Mining	Mine Pit
2387	474 Sand Mine	03/07/06	03/07/26		0.00		Mining	Surficial Aquifer
2387	474 Sand Mine	03/07/06	03/07/26		175.52		Mining	Floridan Aquifer
2387	474 Sand Mine	03/07/06	03/07/26		4,005.54		Mining	Mine Pit
2387	474 Sand Mine	03/07/06	03/07/26		5,890.50		Mining	Mine Pit
2387	474 Sand Mine	03/07/06	03/07/26		0.00		Household	Mine Pit
2387	474 Sand Mine	03/07/06	03/07/26		0.75		Household	Surficial Aquifer
2387	474 Sand Mine	03/07/06	03/07/26		1.12		Household	Floridan Aquifer
2387	474 Sand Mine	03/07/06	03/07/26		0.00		Urban landscape irrigation	Floridan Aquifer
2387	474 Sand Mine	03/07/06	03/07/26		0.00		Urban landscape irrigation	Mine Pit
2387	474 Sand Mine	03/07/06	03/07/26	5,894.84	0.34	9,898.24	Urban landscape irrigation	Surficial Aquifer
2391	Florida Rock Industries Inc	03/07/06	11/08/20		10.00		Mining	Floridan Aquifer
2391	Florida Rock Industries Inc	03/07/06	11/08/20		1,414.38		Mining	dredge lake #3
2391	Florida Rock Industries Inc	03/07/06	11/08/20		0.00		Household	dredge lake #3
2391	Florida Rock Industries Inc	03/07/06	11/08/20	3.31	0.30	1,424.68	Household	Floridan Aquifer
2403	Winn Dixie Scout Reservation	04/28/99	04/28/19	5.86	7.30	7.30	Household	Floridan Aquifer
2410	Live Oaks Ranch & Nursery	05/14/02	05/14/22		13.58		Agricultural (Pasture)	Floridan Aquifer
2410	Live Oaks Ranch & Nursery	05/14/02	05/14/22		0.22		Livestock	Floridan Aquifer
2410	Live Oaks Ranch & Nursery	05/14/02	05/14/22	21.29	2.85	16.65	Nursery (Misc.)	Floridan Aquifer
2436	Ridge Grove	02/18/03	02/18/23		36.01		Agricultural (Citrus)	Floridan Aquifer
2436	Ridge Grove	02/18/03	02/18/23	14.40	10.72	46.73	Freeze protection (Citrus)	Floridan Aquifer
2440	Merry Gro Farms	10/11/05	10/11/10		15.21		Freeze protection (Misc.)	Floridan Aquifer
2440	Merry Gro Farms	10/11/05	10/11/10	242.94	183.29	198.50	Nursery (Misc.)	Floridan Aquifer
2454	Sunlakes Estates	09/19/06	08/30/26	97.63	57.70	57.70	Household	Floridan Aquifer
2492	MOUNT PLYMOUTH GOLF CLUB	10/27/00	10/27/20	127.96	95.70	95.70	Golf course	Floridan Aquifer
2580	Hartle Groves	09/04/01	09/04/21		8.23		Agricultural (Citrus)	Floridan Aquifer
2580	Hartle Groves	09/04/01	09/04/21	0.00	0.13	8.36	Livestock	Floridan Aquifer
2589	Fiddlers Green	01/13/00	01/13/20		0.29		Essential	Floridan Aquifer
2589	Fiddlers Green	01/13/00	01/13/20		0.66		Household	Floridan Aquifer
2589	Fiddlers Green	01/13/00	01/13/20	none reported	0.09	1.03	Livestock	Floridan Aquifer
2594	Cherry Lake Tree Farm, Inc.	06/13/06	06/13/26		0.00		Agricultural (Citrus)	Floridan Aquifer
2594	Cherry Lake Tree Farm, Inc.	06/13/06	06/13/26		0.00		Freeze protection (Citrus)	Floridan Aquifer
2594	Cherry Lake Tree Farm, Inc.	06/13/06	06/13/26	941.64	0.00	0.00	Nursery (Misc.)	Floridan Aquifer
2637	Carl Smith	03/04/03	03/04/23		9.60		Agricultural (Citrus)	Floridan Aquifer
2637	Carl Smith	03/04/03	03/04/23		2.86		Freeze protection (Citrus)	Floridan Aquifer
2637	Carl Smith	03/04/03	03/04/23	0.60	0.04	12.50	Livestock	Floridan Aquifer
2650	Cassia Fern	11/22/00	11/22/20	2.67	18.60	18.60	Nursery (Fern)	Owens Pond
2668	Robert Sullivan	10/10/03	10/10/23	0.19	4.75	4.75	Urban landscape irrigation	Floridan Aquifer

Table A-3: 4 - Inch Well CUPs Tabulation* cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Official Name
2688	Heritage	01/19/06	01/19/26	9.91	11.95	11.95	Nursery (Misc.)	Floridan Aquifer
2700	Lake Utility Services Inc.	04/11/06	04/12/11		73.00		Commercial & industrial process	Floridan Aquifer
2700	Lake Utility Services Inc.	04/11/06	04/12/11		1,112.89		Household	Floridan Aquifer
2700	Lake Utility Services Inc.	04/11/06	04/12/11		53.66		Urban landscape irrigation	Floridan Aquifer
2700	Lake Utility Services Inc.	04/11/06	04/12/11	604.67	138.70	1,378.24	Water utility	Floridan Aquifer
2704	Greenacres Fernery & Citrus	07/18/01	07/18/21		3.60		Agricultural (Citrus)	Floridan Aquifer
2704	Greenacres Fernery & Citrus	07/18/01	07/18/21		5.07		Freeze protection (Fern)	Floridan Aquifer
2704	Greenacres Fernery & Citrus	07/18/01	07/18/21	48.19	16.08	24.75	Nursery (Fern)	Floridan Aquifer
2706	Floral Trace	08/13/01	08/13/21		4.00		Nursery (Misc.)	Floridan Aquifer
2706	Floral Trace	08/13/01	08/13/21	0.61	3.70	7.70	Urban landscape irrigation	Floridan Aquifer
2716	Benjamin O Benham	03/24/03	03/02/20		73.20		Agricultural (Misc.)	Floridan Aquifer
2716	Benjamin O Benham	03/24/03	03/02/20	11.00	1.10	74.30	Livestock	Floridan Aquifer
2753	May and Whitaker	08/11/00	06/21/21		0.00		Livestock	unnamed lagoon
2753	May and Whitaker	08/11/00	06/21/21	0.07	13.61	13.61	Livestock	Floridan Aquifer
2754	Pine Ridge Dairy Inc	11/16/00	11/16/20		14.79		Agricultural (Pasture)	Floridan Aquifer
2754	Pine Ridge Dairy Inc	11/16/00	11/16/20	289.54	54.75	69.54	Livestock	Floridan Aquifer
2758	Florida Made Door	03/30/00	03/30/20		1.44		Essential	Floridan Aquifer
2758	Florida Made Door	03/30/00	03/30/20		0.00		Household	Floridan Aquifer
2758	Florida Made Door	03/30/00	03/30/20	1.62	1.42	2.86	Urban landscape irrigation	Floridan Aquifer
2763	Senninger Irrigation	06/28/02	06/28/22		72.84		Commercial & industrial process	Floridan Aquifer
2763	Senninger Irrigation	06/28/02	06/28/22		2.16		Essential	Floridan Aquifer
2763	Senninger Irrigation	06/28/02	06/28/22	43.45	0.27	75.27	Household	Floridan Aquifer
2766	Pastime Fernery, Inc.	12/03/02	12/03/22		7.20		Agricultural (Citrus)	Floridan Aquifer
2766	Pastime Fernery, Inc.	12/03/02	12/03/22		2.14		Freeze protection (Citrus)	Floridan Aquifer
2766	Pastime Fernery, Inc.	12/03/02	12/03/22		1.93		Freeze protection (Fern)	Floridan Aquifer
2766	Pastime Fernery, Inc.	12/03/02	12/03/22	none reported	6.13	17.40	Nursery (Fern)	Floridan Aquifer
2774	Jack Strickland	10/12/01	10/12/21		10.80		Agricultural (Citrus)	Floridan Aquifer
2774	Jack Strickland	10/12/01	10/12/21		3.22		Freeze protection (Citrus)	Floridan Aquifer
2774	Jack Strickland	10/12/01	10/12/21	5.66	0.09	14.11	Livestock	Floridan Aquifer
2776	Classic Manufacturing Inc	10/23/00	10/23/20	0.90	2.16	2.16	Essential	Floridan Aquifer
2782	Raintree Harbor	02/16/98	02/16/08		0.92		Essential	Floridan Aquifer
2782	Raintree Harbor	02/16/98	02/16/08		16.46		Household	Floridan Aquifer
2782	Raintree Harbor	02/16/98	02/16/08	19.40	2.23	19.61	Urban landscape irrigation	Floridan Aquifer
2790	Simpson Training Center	09/04/01	09/04/21		1.44		Essential	Floridan Aquifer
2790	Simpson Training Center	09/04/01	09/04/21		0.90		Household	Floridan Aquifer
2790	Simpson Training Center	09/04/01	09/04/21	29.50	0.45	2.79	Livestock	Floridan Aquifer
2794	MOORMAN GROVE	01/09/96	01/09/03		14.40		Agricultural (Citrus)	Floridan Aquifer
2794	MOORMAN GROVE	01/09/96	01/09/03		4.29		Freeze protection (Citrus)	Floridan Aquifer
2794	MOORMAN GROVE	01/09/96	01/09/03	none reported	0.44	19.13	Household	Floridan Aquifer
2810	Lake Griffin Isles	04/15/03	04/15/08		43.71		Household	Floridan Aquifer
2810	Lake Griffin Isles	04/15/03	04/15/08		4.86		Unaccounted-for	Floridan Aquifer
2810	Lake Griffin Isles	04/15/03	04/15/08	34.84	0.02	48.59	Urban landscape irrigation	Floridan Aquifer
2816	Clermont Ready-Mixed Concrete Plant	03/10/03	03/10/23		11.96		Commercial & industrial process	Floridan Aquifer
2816	Clermont Ready-Mixed Concrete Plant	03/10/03	03/10/23	4.12	0.04	12.00	Household	Floridan Aquifer

Table A-3: 4 - Inch Well CUPs Tabulation* cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Official Name
2817	Lakeridge	12/02/97	12/02/07		23.50		Agricultural (Misc.)	Floridan Aquifer
2817	Lakeridge	12/02/97	12/02/07		0.86		Essential	Floridan Aquifer
2817	Lakeridge	12/02/97	12/02/07	28.41	1.90	26.26	Urban landscape irrigation	Floridan Aquifer
2823	Seminole Springs Elementary	07/01/03	07/01/23		2.82		Household	Floridan Aquifer
2823	Seminole Springs Elementary	07/01/03	07/01/23	10.66	8.58	11.40	Urban landscape irrigation	Floridan Aquifer
2827	Crosland Britt	05/11/04	05/11/24		0.00		Nursery (Misc.)	Mount Dora James P. Snell WWTP
2827	Crosland Britt	05/11/04	05/11/24		78.00		Nursery (Misc.)	Stormwater
2827	Crosland Britt	05/11/04	05/11/24	190.37	150.84	228.84	Nursery (Misc.)	Floridan Aquifer
2849	Clermont West Sand Mine	09/10/02	09/10/05		0.00		Dewatering	Artificial Pond
2849	Clermont West Sand Mine	09/10/02	09/10/05		0.00		Dewatering	Floridan Aquifer
2849	Clermont West Sand Mine	09/10/02	09/10/05	508.34	1,030.00	1,030.00	Dewatering	Perimeter Ditch
2852	Stone Mountain Nursery	03/06/03	03/06/23		19.20		Agricultural (Citrus)	Floridan Aquifer
2852	Stone Mountain Nursery	03/06/03	03/06/23		5.72		Freeze protection (Citrus)	Floridan Aquifer
2852	Stone Mountain Nursery	03/06/03	03/06/23	33.85	56.70	81.62	Nursery (Misc.)	Floridan Aquifer
2855	CAMILLA GROVE	03/05/97	03/05/12		10.00		Agricultural (Citrus)	Lake Erie
2855	CAMILLA GROVE	03/05/97	03/05/12	8.34	5.72	15.72	Freeze protection (Citrus)	Lake Erie
2859	GOOD SHEPHERD FARMS	02/19/97	02/19/07	22.13	11.40	11.40	Nursery (Fern)	Floridan Aquifer
2860	Hawthorne at Leesburg	06/13/06	07/25/07		20.00		Commercial and industrial process	unnamed lake
2860	Hawthorne at Leesburg	06/13/06	07/25/07		124.70		Household	Floridan Aquifer
2860	Hawthorne at Leesburg	06/13/06	07/25/07		24.00		Recreation area	Floridan Aquifer
2860	Hawthorne at Leesburg	06/13/06	07/25/07		14.60		Urban landscape irrigation	Floridan Aquifer
2860	Hawthorne at Leesburg	06/13/06	07/25/07	470.37	2.70	186.00	Water utility	Floridan Aquifer
2863	BONFIRE COOP	09/16/97	09/16/12		4.32		Dewatering	Lake Tammi
2863	BONFIRE COOP	09/16/97	09/16/12		20.08		Household	Floridan Aquifer
2863	BONFIRE COOP	09/16/97	09/16/12	18.38	4.54	28.94	Urban landscape irrigation	Floridan Aquifer
2867	Country Squire	06/15/05	05/12/15	6.43	10.13	10.13	Household	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08		10.95		Commercial and industrial process	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08		131.40		Household	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08		0.37		Unaccounted-for	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08		7.30		Urban landscape irrigation	Floridan Aquifer
2888	Mid Florida Lakes	10/10/03	10/10/08	106.41	7.30	157.32	Water utility	Floridan Aquifer
2894	United Methodist Church Camp	11/05/99	11/05/19		33.84		Household	Floridan Aquifer
2894	United Methodist Church Camp	11/05/99	11/05/19	15.80	2.35	36.19	Urban landscape irrigation	Floridan Aquifer
2918	Mahon's Citrus Nursery	04/11/95	04/11/02		15.23		Agricultural (Citrus)	Mud Lake
2918	Mahon's Citrus Nursery	04/11/95	04/11/02	none reported	3.99	19.22	Freeze protection (Citrus)	Mud Lake
2923	Dura-Stress Inc.	05/31/01	05/31/21		80.25		Commercial & industrial process	Floridan Aquifer
2923	Dura-Stress Inc.	05/31/01	05/31/21		1.82		Household	Floridan Aquifer
2923	Dura-Stress Inc.	05/31/01	05/31/21	25.50	3.00	85.07	Urban landscape irrigation	Floridan Aquifer
2933	Grass Roots Nurseries, Inc.	03/03/00	03/03/20		3.00		Freeze protection (Misc.)	Floridan Aquifer
2933	Grass Roots Nurseries, Inc.	03/03/00	03/03/20	21.31	20.30	23.30	Nursery (Misc.)	Floridan Aquifer
2944	Williams Grove	01/19/06	11/14/25		5.76		Agricultural (Citrus)	Floridan Aquifer
2944	Williams Grove	01/19/06	11/14/25	1.76	1.72	7.48	Freeze protection (Citrus)	Floridan Aquifer
2946	C & C Peat Mine	10/11/05	10/11/11		377.00		Dewatering	surficial aquifer
2946	C & C Peat Mine	10/11/05	10/11/11	379.19	0.00	377.00	Household	surficial aquifer

Table A-3: 4 - Inch Well CUPs Tabulation* cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Official Name
2950	Sand Hill Ferns	05/17/01	05/17/21		6.70		Freeze protection (Fern)	Unnamed Pond
2950	Sand Hill Ferns	05/17/01	05/17/21	8.90	8.30	15.00	Nursery (Fern)	Unnamed Pond
2955	Bryan Ferns	04/15/03	04/15/23		4.80		Agricultural (Citrus)	Floridan Aquifer
2955	Bryan Ferns	04/15/03	04/15/23		0.00		Freeze protection (Citrus)	unnamed pond
2955	Bryan Ferns	04/15/03	04/15/23		12.04		Freeze protection (Fern)	Floridan Aquifer
2955	Bryan Ferns	04/15/03	04/15/23	320.57	38.18	55.02	Nursery (Fern)	Floridan Aquifer
2958	Turnpike Sand Plant	09/12/06	03/08/25		0.00		Commercial and industrial process	Floridan Aquifer
2958	Turnpike Sand Plant	09/12/06	03/08/25	0.00	0.16	0.16	Household	Floridan Aquifer
2959	Upson Downs	10/12/04	10/12/24		29.43		Household	Floridan Aquifer
2959	Upson Downs	10/12/04	10/12/24	28.55	136.19	165.62	Household	Onsite Lake
2973	The Lakes of Lady Lake	11/21/05	09/26/15	42.26	12.94	12.94	Household	Floridan Aquifer
2974	Sargent Grove	08/27/02	08/27/22		0.00		Agricultural (Citrus)	Floridan Aquifer
2974	Sargent Grove	08/27/02	08/27/22		24.87		Agricultural (Pasture)	Floridan Aquifer
2974	Sargent Grove	08/27/02	08/27/22		0.00		Freeze protection (Citrus)	Floridan Aquifer
2974	Sargent Grove	08/27/02	08/27/22	19.07	0.05	24.92	Livestock	Floridan Aquifer
2977	Wilkinson Auction	05/14/02	05/14/22		1.73		Essential	Floridan Aquifer
2977	Wilkinson Auction	05/14/02	05/14/22		0.31		Household	Floridan Aquifer
2977	Wilkinson Auction	05/14/02	05/14/22	none reported	1.47	3.51	Urban landscape irrigation	Floridan Aquifer
2984	Whitney Baptist Church	09/23/02	09/23/22		0.72		Essential	Floridan Aquifer
2984	Whitney Baptist Church	09/23/02	09/23/22	2.09	0.03	0.75	Household	Floridan Aquifer
2992	Oak Haven Strawberries	09/22/03	09/22/23		3.17		Agricultural (Misc.)	Floridan Aquifer
2992	Oak Haven Strawberries	09/22/03	09/22/23	3.64	1.33	4.50	Freeze protection (Misc.)	Floridan Aquifer
3123	Harbor View Elementary	09/03/99	09/03/19		4.80		Household	Floridan Aquifer
3123	Harbor View Elementary	09/03/99	09/03/19	4.73	1.60	6.40	Urban landscape irrigation	Floridan Aquifer
4483	Givens Farm	11/01/96	11/01/06	0.04	13.84	13.84	Livestock	UNKNOWN (REMOVE)
4505	BECSEK GROVE	07/03/96	07/03/06	0.68	0.95	0.95	Urban landscape irrigation	Retention Pond
4522	Lester Coggins Trucking Inc	10/23/06	08/03/26		0.18		Commercial and industrial process	Floridan Aquifer
4522	Lester Coggins Trucking Inc	10/23/06	08/03/26		2.92		Household	Floridan Aquifer
4522	Lester Coggins Trucking Inc	10/23/06	08/03/26	0.72	0.00	3.10	Urban landscape irrigation	Floridan Aquifer
4533	Goney's Nursery	06/16/04	06/16/24		4.75		Freeze protection (Misc.)	Floridan Aquifer
4533	Goney's Nursery	06/16/04	06/16/24	6.28	14.40	19.15	Nursery (Misc.)	Floridan Aquifer
6292	Leesburg Plant	09/07/99	09/07/19		4.15		Commercial and industrial process	Floridan Aquifer
6292	Leesburg Plant	09/07/99	09/07/19	10.12	12.49	16.64	Urban landscape irrigation	Floridan Aquifer
6398	Clerbrook Resort	03/13/02	03/13/07	30.22	53.40	53.40	Household	Floridan Aquifer
10377	Rowe Groves	08/11/00	08/11/20		31.21		Agricultural (Citrus)	Floridan Aquifer
10377	Rowe Groves	08/11/00	08/11/20	13.55	9.30	40.51	Freeze protection (Citrus)	Floridan Aquifer
10846	Barrington Estates Wells	08/14/06	05/23/22		17.82		Household	Floridan Aquifer
10846	Barrington Estates Wells	08/14/06	05/23/22		1.04		Urban landscape irrigation	Floridan Aquifer
10846	Barrington Estates Wells	08/14/06	05/23/22	30.82	1.84	20.70	Water utility	Floridan Aquifer
11146	Groveland Estates	11/30/01	11/09/18		29.33		Urban landscape irrigation	Floridan Aquifer
11146	Groveland Estates	11/30/01	11/09/18	10.55	29.33	29.33	Urban landscape irrigation	Lake Lucy
50109	RL Ferns	12/05/97	12/04/12		10.14		Freeze protection (Fern)	Lake Yale
50109	RL Ferns	12/05/97	12/04/12	5.21	12.38	22.52	Nursery (Fern)	Floridan Aquifer

Table A-3: 4 - Inch Well CUPs Tabulation* cont.

CUP #	CUP Name	Issue Date	Expiration Date	Avg. Actual Pumpage (mgy) (2000-2005)	Permit Amount by Source (mgy)	Total Permitted Amount (mgy)	Water Usage Type	Water Source Official Name
50113	SMP Ranch	04/17/01	04/17/11		28.00		Agricultural (Citrus)	Floridan Aquifer
50113	SMP Ranch	04/17/01	04/17/11		9.30		Freeze protection (Citrus)	Floridan Aquifer
50113	SMP Ranch	04/17/01	04/17/11	0.00	1.20	38.50	Livestock	Floridan Aquifer
50115	Pine Island PUD	06/10/03	06/10/08		0.00		Household	Pine Lake
50115	Pine Island PUD	06/10/03	06/10/08		184.10		Household	Floridan Aquifer
50115	Pine Island PUD	06/10/03	06/10/08	6.70	186.85	370.95	Urban landscape irrigation	Floridan Aquifer
50135	Palisades Golf Course	03/12/02	08/11/18		0.00		Golf course	Floridan Aquifer
50135	Palisades Golf Course	03/12/02	08/11/18		0.00		Golf course	Lake Minneola
50135	Palisades Golf Course	03/12/02	08/11/18	118.10	0.00	0.00	Golf course	Spring Lake
50207	Tulley Dura-Rock	10/11/06	10/11/16	28.57	36.79	36.79	Commercial and industrial process	Floridan Aquifer
50220	Jon's Nursery	02/10/98	02/10/13		3.00		Freeze protection (Fern)	Wholly owned pond
50220	Jon's Nursery	02/10/98	02/10/13		2.20		Household	Floridan Aquifer
50220	Jon's Nursery	02/10/98	02/10/13	566.66	210.00	215.20	Nursery (Fern)	Floridan Aquifer
50277	Spring Creek Elementary	06/11/98	06/11/08		0.28		Agricultural (Misc.)	Floridan Aquifer
50277	Spring Creek Elementary	06/11/98	06/11/08		5.00		Household	Floridan Aquifer
50277	Spring Creek Elementary	06/11/98	06/11/08		0.26		Livestock	Floridan Aquifer
50277	Spring Creek Elementary	06/11/98	06/11/08	2.66	12.00	17.54	Urban landscape irrigation	Floridan Aquifer
50318	Lake Kirkland Nursery	03/07/00	03/07/20		84.02		Agricultural (Citrus)	Floridan Aquifer
50318	Lake Kirkland Nursery	03/07/00	03/07/20		25.02		Freeze protection (Citrus)	Kirkland Lake
50318	Lake Kirkland Nursery	03/07/00	03/07/20	13.04	47.80	156.84	Nursery (Misc.)	Floridan Aquifer
50334	Park At Wolf Branch Oaks	03/14/06	01/19/26		37.05		Household	Floridan Aquifer
50334	Park At Wolf Branch Oaks	03/14/06	01/19/26		0.36		Unaccounted-for	Floridan Aquifer
50334	Park At Wolf Branch Oaks	03/14/06	01/19/26		11.97		Urban landscape irrigation	Floridan Aquifer
50334	Park At Wolf Branch Oaks	03/14/06	01/19/26	11.42	0.73	50.11	Water utility	Floridan Aquifer
50720	Astatula Elementary School	01/21/99	01/21/19		3.12		Household	Floridan Aquifer
50720	Astatula Elementary School	01/21/99	01/21/19	1.21	1.32	4.44	Urban landscape irrigation	Floridan Aquifer
62666	Round Lake Elementary	12/07/99	12/07/19		0.99		Household	Floridan Aquifer
62666	Round Lake Elementary	12/07/99	12/07/19	7.94	12.66	13.65	Urban landscape irrigation	Floridan Aquifer
64152	CSR Rinker Leesburg	06/20/00	06/20/20	210.44	14.60	14.60	Commercial and industrial process	Floridan Aquifer
65277	Reier Enterprises	11/16/00	11/16/20		0.86		Essential	Lake Gibson
65277	Reier Enterprises	11/16/00	11/16/20		1.90		Freeze protection (Fern)	Lake Gibson
65277	Reier Enterprises	11/16/00	11/16/20	2.21	5.02	7.78	Nursery (Fern)	Lake Gibson
81093	East Ridge High School	12/31/01	12/31/06	19.84	82.42	82.42	Urban landscape irrigation	Floridan Aquifer
TOTALS				**11,895.04**	**17,633.11**			

Source: St. Johns River Water Management District; GIS Development; "Consumptive Use Permit Well"; downloaded 06/06; ftp://sjr.state.fl.us/disk1/regulatory/cupdata/cupstations.zip
*CUPs that include at least one 4 - inch well

APPENDIX B

PUBLIC SUPPLY WATER SYSTEMS IN LAKE COUNTY

PUBLIC WATER SYSTEM ID	TYPE	PROVIDER	CITY	OWNER TYPE	POP. SERVED	DESIGN CAPACITY (GAL/DAY)	SRVC CONNECT	# PLANTS
3350141	NONCOMMUNITY	CAMP OCALA	ALTOONA	OTHER	250	48,600	26	1
3350180	NONCOMMUNITY	CHISHOLM TRAIL CAMPGROUNDS	ALTOONA	INVESTOR	30	25,200	20	1
3350694	NONCOMMUNITY	LAKE DORR MOBILE HOME PARK	ALTOONA	INVESTOR	37	15,840	25	1
3350730	COMMUNITY	LAKEVIEW TERRACE RETIREMENT SERVICES	ALTOONA	INVESTOR	330	288,000	38	1
3354663	NONTRANSIENT NONCOMMUNITY	ALTOONA SCHOOL INC.	ALTOONA	OTHER	80	43,000	5	1
3354709	NONCOMMUNITY	ALTOONA FOOD MART	ALTOONA	INVESTOR	25	10,000	1	1
3354724	NONTRANSIENT NONCOMMUNITY	RIVENDELL BOYS' RANCH	ALTOONA	INVESTOR	129	100,800	9	1
3354830	NONCOMMUNITY	ALTOONA UNITED METHODIST CHURCH	ALTOONA	OTHER	100	21,600	1	1
3354831	NONCOMMUNITY	FIRST BAPTIST CH OF ALTOONA	ALTOONA	OTHER	130	12,000	3	1
3354834	NONCOMMUNITY	ALTOONA CONG OF JEH WITNESSES	ALTOONA	OTHER	98	40,000	1	1
3354851	NONCOMMUNITY	ALTOONA DISCOUNT FOOD STORE	ALTOONA	INVESTOR	25	14,400	2	1
3354920	NONCOMMUNITY	KANGAROO EXPRESS #2501	ALTOONA	INVESTOR	25	25,200	1	1
3350322	COMMUNITY	EAST LAKE HARRIS ESTATES	ASTATULA	INVESTOR/LICENSED PUBLIC UTILITIES	443	144,000	177	1
3350426	COMMUNITY	FRIENDLY CENTER SUBDIVISION	ASTATULA	INVESTOR/LICENSED PUBLIC UTILITIES	78	72,100	31	1
3350529	NONCOMMUNITY	HIDE-AWAY-HARBOR MHP	ASTATULA	INVESTOR	25	42,000	48	1
3350572	NONTRANSIENT NONCOMMUNITY	ROMAR ESTATES	ASTATULA	INVESTOR	80	64,800	20	1
3350760	COMMUNITY	LITTLE LAKE HARRIS SHORES ASSOC	ASTATULA	WATER ASSOCIATION	297	145,000	135	1
3354000	NONTRANSIENT NONCOMMUNITY	ASTATULA ELEMENTARY SCHOOL	ASTATULA	COUNTY	630	144,000	6	1
3354038	COMMUNITY	THE MEADOWS (FORMERLY ASTATULA EST MHP)	ASTATULA	INVESTOR	150	162,000	73	1
3354777	NONTRANSIENT NONCOMMUNITY	FLORIDA MADE DOORS	ASTATULA	INVESTOR	160	57,600	3	1
3354846	NONCOMMUNITY	ASTATULA BAPTIST CHURCH	ASTATULA	OTHER	25	6,480	2	1
3354904	NONTRANSIENT NONCOMMUNITY	MACK CONCRETE INDUSTRIES	ASTATULA	INVESTOR	55	14,400	3	1
3354946	NONTRANSIENT NONCOMMUNITY	FLORIDA CONCRETE PIPE CORPORATION	ASTATULA	OTHER	40	48,000	6	1
3350044	COMMUNITY	ST. JOHN'S RIVER UTILITY INC	ASTOR	WATER ASSOCIATION	4,080	1,000,000	1,620	1
3354886	COMMUNITY	HOLIDAY HAVEN (CONSEC.)	ASTOR	INVESTOR	295	1	126	1

PUBLIC WATER SYSTEM ID	TYPE	PROVIDER	CITY	OWNER TYPE	POP. SERVED	DESIGN CAPACITY (GAL/DAY)	SRVC CONNECT	# PLANTS
3354930	NONCOMMUNITY	BOGGY CREEK GANG CAMP	CASSIA	INVESTOR	325	144,000	34	1
3350215	COMMUNITY	CLERMONT CITY OF (3 WPS)	CLERMONT	MUNICIPALITY	14,675	4,756,000	4,193	3
3350536	COMMUNITY	HIGHLANDS MOBILE HOME PARK	CLERMONT	INVESTOR	130	86,000	67	1
3350548	NONCOMMUNITY	PALACE INN	CLERMONT	INVESTOR	25	162,000	5	1
3350690	COMMUNITY	LAKE CORRECTIONAL INSTITUTION	CLERMONT	STATE	2,000	648,000	40	1
3350691	COMMUNITY	SUNSHINE PARKWAY SYSTEMS	CLERMONT	INVESTOR	1,029	1,084,000	294	1
3350900	COMMUNITY	OAK LANE TRAILER PARK	CLERMONT	INVESTOR	109	32,400	60	1
3351376	COMMUNITY	TORCHLIGHT TRAILER PARK	CLERMONT	INVESTOR	50	36,000	94	1
3351418	NONCOMMUNITY	VACATION VILLAGE CONDOMINIUMS	CLERMONT	INVESTOR	40	216,000	193	1
3354104	COMMUNITY	CLERBROOK RV RESORTS (2 WPS)	CLERMONT	INVESTOR	3,142	403,200	1,257	2
3354106	COMMUNITY	BEE'S RV RESORT	CLERMONT	INVESTOR	158	162,000	263	1
3354125	NONCOMMUNITY	BEACH'S COUNTRY STORE & DINER	CLERMONT	INVESTOR	30	6,480	1	1
3354645	NONTRANSIENT NONCOMMUNITY	THOUSAND TRAILS RESORT	CLERMONT	INVESTOR	1,835	576,000	734	1
3354646	COMMUNITY	ORANGE LAKE MH COMMUNITY	CLERMONT	INVESTOR	615	936,000	246	1
3354654	NONTRANSIENT NONCOMMUNITY	CROTHALL LAUNDRY	CLERMONT	OTHER	65	216,000	3	1
3354712	NONCOMMUNITY	7-11 #25783/192 S CLERMONT	CLERMONT	INVESTOR	25	10,800	1	1
3354717	NONTRANSIENT NONCOMMUNITY	CLASSIC FISH MANUFACTURING	CLERMONT	INVESTOR	30	33,120	2	1
3354774	NONCOMMUNITY	LAKERIDGE WINERY	CLERMONT	INVESTOR	25	21,600	1	1
3354779	COMMUNITY	CLERMONT EAST WATER SYSTEM (3 WPS)	CLERMONT	MUNICIPALITY	33,656	10,998,000	9,616	3
3354808	NONCOMMUNITY	FANTASY GENTLEMEN'S CLUB	CLERMONT	INVESTOR	25	50,000	2	1
3354849	NONTRANSIENT NONCOMMUNITY	SILVER SAND COMPANY	CLERMONT	INVESTOR	40	1	1	1
3354877	COMMUNITY	PALISADES COUNTRY CLUB	CLERMONT	INVESTOR/LICENSED PUBLIC UTILITIES	1,823	1,152,000	521	1
3354881	COMMUNITY	LAKE UTILITY SERVICES INC SOUTH	CLERMONT	INVESTOR	10,049	6,000,000	2,871	1
3354883	COMMUNITY	LAKE UTILITY SERVICES INC NORTH	CLERMONT	INVESTOR/LICENSED PUBLIC UTILITIES	18,518	7,440,000	5,291	10
3354889	NONCOMMUNITY	SWISS SKI SCHOOL	CLERMONT	INVESTOR	26	2,500	3	1
3354898	NONCOMMUNITY	OPEN DOOR BAPTIST CHURCH	CLERMONT	INVESTOR	50	28,000	3	1
3354915	NONCOMMUNITY	CLERMONT JEHOVAH'S WITNESSES	CLERMONT	INVESTOR	130	54,000	1	1
3354916	COMMUNITY	SOUTHLAKE UTILITIES	CLERMONT	INVESTOR	6,157	2,916,000	1,759	1

PUBLIC WATER SYSTEM ID	TYPE	PROVIDER	CITY	OWNER TYPE	POP. SERVED	DESIGN CAPACITY (GAL/DAY)	SRVC CONNECT	# PLANTS
3354766	NONCOMMUNITY	FOREST HILLS GROCERY	DELAND	INVESTOR	25	0	1	1
3354912	NONCOMMUNITY	TROPICAL WHISPERS TRAILER PARK	DONA VISTA	INVESTOR	38	10,000	15	1
3350165	NONCOMMUNITY	CENTRAL FLORIDA BIBLE CAMP	EUSTIS	OTHER	25	32,400	14	1
3350346	COMMUNITY	EUSTIS CITY OF (3 WPS)	EUSTIS	MUNICIPALITY	34,153	12,805,000	9,758	3
3350506	COMMUNITY	HASELTON VILLAGE	EUSTIS	INVESTOR/LICENSED PUBLIC UTILITIES	728	360,000	291	1
3354044	COMMUNITY	LAKE JOANNA ESTATES	EUSTIS	SUBDIVISION	140	72,000	46	1
3354697	COMMUNITY	GRAND TERRACE SUBDIVISION	EUSTIS	INVESTOR/LICENSED PUBLIC UTILITIES	256	432,000	111	1
3354731	NONCOMMUNITY	CIRCLE K #7426/PINE LAKES	EUSTIS	INVESTOR	26	20,000	1	1
3354818	NONTRANSIENT NONCOMMUNITY	SEMINOLE SPRINGS ELEMENTARY	EUSTIS	COUNTY	700	72,000	9	1
3354867	COMMUNITY	QUAIL RIDGE ESTATES	EUSTIS	INVESTOR/LICENSED PUBLIC UTILITIES	240	468,000	96	1
3354868	NONTRANSIENT NONCOMMUNITY	JON'S NURSERY INC.	EUSTIS	INVESTOR	100	25,200	6	1
3354871	NONCOMMUNITY	KANGAROO EXPRESS #2290	EUSTIS	INVESTOR	25	15,840	1	1
3354933	NONCOMMUNITY	KANGAROO EXPRESS #2118	EUSTIS	INVESTOR	25	14,400	1	1
3354938	COMMUNITY	BLACK BEAR RESERVE	EUSTIS	INVESTOR	42	888,000	12	1
3354941	NONCOMMUNITY	SEMINOLE SPRINGS BAPTIST CHURCH	EUSTIS	OTHER	65	17,280	1	1
3354953	COMMUNITY	EUSTIS EASTERN WTP	EUSTIS	CITY	1,599	1,790,000	457	1
3354955	NONCOMMUNITY	DAM SMOKER THE	EUSTIS	INVESTOR	25	10,800	1	1
3354845	NONCOMMUNITY	FERNDALE BAPTIST CHURCH	FERNDALE	OTHER	70	34,560	2	1
3354847	NONCOMMUNITY	FERNDALE CHURCH OF GOD	FERNDALE	OTHER	25	6,480	2	1
3350027	NONCOMMUNITY	ACA CAMP LAKE GENEVA (2 WPS)	FRUITLAND PARK	INVESTOR	25	83,520	18	2
3350319	COMMUNITY	EAGLES NEST MOBILE HOME ESTATE	FRUITLAND PARK	INVESTOR	90	144,000	189	1
3350427	COMMUNITY	FRUITLAND PARK CITY OF (4 WPS)	FRUITLAND PARK	MUNICIPALITY	3,465	2,196,647	1,283	4
3350474	COMMUNITY	GRIFFWOOD MOBILE HOME PARK	FRUITLAND PARK	INVESTOR	295	64,800	118	1
3350495	COMMUNITY	HARBOR OAKS MOBILE HOME PARK	FRUITLAND PARK	SUBDIVISION	421	440,000	234	1
3350655	COMMUNITY	KING'S COVE SUBDIVISION	FRUITLAND PARK	INVESTOR	732	378,000	209	1
3350851	COMMUNITY	MORGAN'S MHP & FISH CAMP	FRUITLAND PARK	INVESTOR	85	50,400	120	1
3351009	COMMUNITY	PICCIOLA ISLAND SUBDIVISION	FRUITLAND PARK	INVESTOR/LICENSED PUBLIC UTILITIES	529	198,000	151	1
3351021	COMMUNITY	PINEY WOODS SUBDIVISION - 2 WTPS	FRUITLAND PARK	INVESTOR/LICENSED	630	316,800	180	2

PUBLIC WATER SYSTEM ID	TYPE	PROVIDER	CITY	OWNER TYPE	POP. SERVED	DESIGN CAPACITY (GAL/DAY)	SRVC CONNECT	# PLANTS
				PUBLIC UTILITIES				
3351205	COMMUNITY	SKYCREST SUBDIVISION	FRUITLAND PARK	INVESTOR/LICENSED PUBLIC UTILITIES	308	126,000	123	1
3351398	NONCOMMUNITY	TWIN PALMS TRAILER PARK	FRUITLAND PARK	INVESTOR	3	30,000	28	1
3351421	COMMUNITY	VALENCIA TERRACE SUBDIVISION	FRUITLAND PARK	INVESTOR/LICENSED PUBLIC UTILITIES	1,250	720,000	357	1
3351458	NONCOMMUNITY	FISHERMAN'S WHARF	FRUITLAND PARK	INVESTOR	62	57,600	31	1
3351564	COMMUNITY	CITRUS CIRCLE MOBILE HOME S/D	FRUITLAND PARK	INVESTOR	88	64,800	39	1
3351565	NONTRANSIENT NONCOMMUNITY	FL UNTED METHODIST LIFE ENRC. CENTER	FRUITLAND PARK	OTHER	50	381,600	95	2
3354054	COMMUNITY	LAKE GRIFFIN ISLES MHP (2 WPS)	FRUITLAND PARK	INVESTOR	1,212	878,400	485	2
3354656	COMMUNITY	LAKE IDLEWILD ESTATES	FRUITLAND PARK	INVESTOR	116	432,000	33	1
3354661	COMMUNITY	PICCIOLA LANDING	FRUITLAND PARK	INVESTOR	125	72,000	50	1
3354750	NONCOMMUNITY	EAGLE'S NEST BAPTIST CHURCH	FRUITLAND PARK	OTHER	58	18,000	2	1
3354794	NONCOMMUNITY	CALVARY BAPTIST CHURCH	FRUITLAND PARK	OTHER	26	1	1	1
3350172	COMMUNITY	GRAND ISLAND RESORT MHP (2 WPS)	GRAND ISLAND	INVESTOR	480	324,000	320	2
3350464	NONCOMMUNITY	GRAND ISLAND TRAILER PARK	GRAND ISLAND	INVESTOR	30	54,000	20	1
3351555	COMMUNITY	SUNLAKE ESTATES	GRAND ISLAND	INVESTOR	637	639,000	335	1
3354043	COMMUNITY	BRENDENWOOD WATER SYSTEM	GRAND ISLAND	INVESTOR	130	108,000	58	1
3354701	COMMUNITY	WEDGEWOOD SUBDIVISION	GRAND ISLAND	SUBDIVISION	980	734,400	393	1
3350398	NONCOMMUNITY	FLORIDA BAPTIST ENCAMPMENT	GROVELAND	OTHER	300	108,000	22	1
3350475	NONCOMMUNITY	PINE LAKE RETREAT	GROVELAND	INVESTOR	30	34,560	26	1
3350476	COMMUNITY	GROVELAND WATER DEPARTMENT - WTPS 1 & 2	GROVELAND	MUNICIPALITY	10,070	2,057,000	2,877	2
3351069	NONCOMMUNITY	REDWING RESTAURANT	GROVELAND	UNKNOWN	25	18,000	1	1
3351366	COMMUNITY	TIMBER VILLAGE MOBILE HOME PK	GROVELAND	INVESTOR	176	176,000	98	1
3351563	COMMUNITY	WOODLAND HERITAGE AT CHURCH LAKE LLC	GROVELAND	INVESTOR	286	720,000	143	1
3354783	NONCOMMUNITY	BAY LAKE MISSIONARY BAPTIST CH	GROVELAND	OTHER	100	13,680	2	1
3354865	NONCOMMUNITY	TUSCANOOGA BAPTIST CHURCH	GROVELAND	OTHER	25	6,480	1	1
3354866	NONCOMMUNITY	NOVELTY CRYSTAL CORPORATION	GROVELAND	INVESTOR	25	25,200	1	1
3354931	NONTRANSIENT NONCOMMUNITY	CHERRY LAKE FARMS #1	GROVELAND	INVESTOR	38	21,000	3	1
3350573	COMMUNITY	HOWEY IN THE HILLS (2 WPS)	HOWEY IN THE HILLS	MUNICIPALITY	1,922	2,520,000	549	2
3351189	NONTRANSIENT NONCOMMUNITY	SILVER SPRINGS CITRUS	HOWEY IN THE HILLS	INVESTOR	264	1,116,000	15	1

PUBLIC WATER SYSTEM ID	TYPE	PROVIDER	CITY	OWNER TYPE	POP. SERVED	DESIGN CAPACITY (GAL/DAY)	SRVC CONNECT	# PLANTS
3350838	NONTRANSIENT NONCOMMUNITY	MISSION INN GOLF & TENNIS RESORT	HOWEY-IN-THE-HILLS	INVESTOR	175	496,800	5	1
3354836	COMMUNITY	SARABANDE	HOWEY-IN-THE-HILLS	INVESTOR	97	360,000	39	1
3354944	COMMUNITY	LAS COLINAS WATER PLANT	HOWEY-IN-THE-HILLS	SUBDIVISION	260	480,000	173	1
3350094	COMMUNITY	BLUE PARROT RV PARK	LADY LAKE	INVESTOR	92	162,000	452	1
3350152	COMMUNITY	CARLTON VILLAGE	LADY LAKE	INVESTOR/LICENSED PUBLIC UTILITIES	840	288,000	240	1
3350544	COMMUNITY	HOBBY HILL SUBDIVISION	LADY LAKE	INVESTOR/LICENSED PUBLIC UTILITIES	265	234,000	106	1
3350679	COMMUNITY	LADY LAKE MOBILE HOME PARK	LADY LAKE	INVESTOR	270	144,000	158	1
3350977	COMMUNITY	LADY LAKE CENTRAL - WPS 123	LADY LAKE	MUNICIPALITY	6,066	2,358,000	1,733	3
3354004	NONCOMMUNITY	PINE ISLAND FISH CAMP	LADY LAKE	INVESTOR	17	79,000	33	1
3354010	COMMUNITY	WATER OAK COUNTRY CLUB ESTATES	LADY LAKE	INVESTOR	1,539	1,056,000	1,026	1
3354108	NONCOMMUNITY	BIG PINE ISLAND	LADY LAKE	OTHER	27	44,640	19	1
3354738	NONCOMMUNITY	KANGAROO EXPRESS #1235	LADY LAKE	INVESTOR	25	12,000	1	1
3354781	COMMUNITY	HARBOR HILLS - 2 WTPS	LADY LAKE	SUBDIVISION	701	1,800,000	307	2
3354785	NONCOMMUNITY	FIRST SOUTHERN BAPTIST CHURCH	LADY LAKE	OTHER	75	35,800	1	1
3354926	COMMUNITY	LAKES OF LADY LAKE EXEC GOLF	LADY LAKE	INVESTOR	25	120,000	18	1
3350005	COMMUNITY	FORTY-EIGHT ESTATES	LEESBURG	INVESTOR	87	57,600	305	1
3350012	NONCOMMUNITY	BOB'S COUNTRY STORE	LEESBURG	INVESTOR	25	25,000	2	1
3350016	COMMUNITY	AL JANA TRAILER PARK	LEESBURG	INVESTOR	40	38,000	30	1
3350062	COMMUNITY	CYPRESS COVE MHP	LEESBURG	INVESTOR	60	43,200	40	1
3350065	NONCOMMUNITY	BAY ISLAND COTTAGES	LEESBURG	INVESTOR	32	1	16	1
3350090	NONCOMMUNITY	BLACK BASS RESORT	LEESBURG	INVESTOR	25	1	13	1
3350102	COMMUNITY	BONFIRE MOBILE HOME PARK	LEESBURG	INVESTOR	270	180,000	215	1
3350117	COMMUNITY	BRITTANY ESTATES	LEESBURG	SUBDIVISION	383	360,000	213	1
3350140	NONCOMMUNITY	CHURCH OF GOD YOUTH & RETREAT	LEESBURG	OTHER	25	72,000	17	1
3350207	NONCOMMUNITY	SHADY NEST MOBILE HOME PARK	LEESBURG	INVESTOR	25	26,000	15	1
3350240	COMMUNITY	CORLEY ISLAND MOBILE MANOR	LEESBURG	INVESTOR	250	165,600	149	1
3350316	NONTRANSIENT NONCOMMUNITY	DURA-STRESS INC	LEESBURG	INVESTOR	350	13,000	2	1
3350370	COMMUNITY	FERN TERRACE SUBDIVISION	LEESBURG	INVESTOR/LICENSED PUBLIC UTILITIES	283	129,600	125	1

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3350385	NONCOMMUNITY	LAKE YALE BAPTIST CONFERENCE CENTER	LEESBURG	INVESTOR	25	324,000	30	2
3350481	COMMUNITY	HAINES CREEK MOBILE HOME PARK	LEESBURG	INVESTOR	220	64,800	110	1
3350507	COMMUNITY	HAWTHORNE AT LEESBURG	LEESBURG	INVESTOR	1,883	1,030,000	1,175	1
3350523	COMMUNITY	HICKORY HOLLOW ESTATES	LEESBURG	INVESTOR	223	64,800	119	1
3350551	NONTRANSIENT NONCOMMUNITY	HOLIDAY TRAVEL RESORT	LEESBURG	INVESTOR	2,395	554,400	958	2
3350575	COMMUNITY	HUB MOBILE HOME PARK	LEESBURG	INVESTOR	44	25,920	42	1
3350740	NONCOMMUNITY	LAZY OAKS RESORT	LEESBURG	INVESTOR	25	1	25	1
3350744	COMMUNITY	LAKESIDE VILLAGE I	LEESBURG	INVESTOR	280	162,000	112	1
3350745	COMMUNITY	LEESBURG CITY OF	LEESBURG	MUNICIPALITY	25,158	17,424,000	7,188	1
3350765	NONCOMMUNITY	LIVE OAK TRAILER PARK	LEESBURG	INVESTOR	25	18,000	32	1
3350825	COMMUNITY	MID-FLORIDA LAKES YACHT CLUB	LEESBURG	INVESTOR	3,065	1,209,000	1,226	1
3350842	COMMUNITY	MOLOKAI MOBILE COMMUNITY	LEESBURG	INVESTOR	500	216,000	270	1
3350852	COMMUNITY	MORNINGVIEW SUBDIVISION	LEESBURG	INVESTOR/LICENSED PUBLIC UTILITIES	137	306,000	39	1
3350981	COMMUNITY	PALM MOBILE HOME ESTATES	LEESBURG	INVESTOR/LICENSED PUBLIC UTILITIES	158	93,600	63	1
3350984	COMMUNITY	PALM SHORES RV RESORT	LEESBURG	SUBDIVISION	80	180,000	311	1
3351062	COMMUNITY	RAVENSWOOD WATER SYSTEM	LEESBURG	INVESTOR	161	56,160	46	1
3351115	COMMUNITY	SANDPIPER MOBILE HOME MANOR	LEESBURG	INVESTOR	430	162,000	172	1
3351154	NONCOMMUNITY	SHADY OAKS MOBILE HOME & RV PARK	LEESBURG	INVESTOR	153	33,120	61	1
3351182	COMMUNITY	SILVER LAKE ESTATES	LEESBURG	INVESTOR/LICENSED PUBLIC UTILITIES	4,001	2,202,000	1,143	1
3351243	NONCOMMUNITY	SPILLWAY TRAILER PARK	LEESBURG	INVESTOR	4	4,320	17	1
3351331	COMMUNITY	TARA VILLAGE	LEESBURG	INVESTOR	283	79,200	113	1
3351335	COMMUNITY	RIDGECREST RESORT COMMUNITY	LEESBURG	INVESTOR	25	199,000	300	1
3351464	COMMUNITY	WESTERN SHORES SUBDIVISION	LEESBURG	INVESTOR/LICENSED PUBLIC UTILITIES	1,652	432,000	472	1
3351561	COMMUNITY	CYPRESS CREEK	LEESBURG	INVESTOR/LICENSED PUBLIC UTILITIES	191	100,800	145	1
3351566	COMMUNITY	LEESBURG EAST (AIRPORT & SQUARE MALL)	LEESBURG	MUNICIPALITY	7,795	2,681,000	2,227	2
3354020	NONTRANSIENT NONCOMMUNITY	CUTRALE CITRUS JUICES - LEESBURG	LEESBURG	INVESTOR	250	1,500,000	10	1
3354027	COMMUNITY	CENTURY ESTATES UTILITIES INC.	LEESBURG	INVESTOR	343	108,000	98	1

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3354028	COMMUNITY	SHANGRI-LA BY THE LAKE UTILITIES INC.	LEESBURG	INVESTOR	328	180,000	168	1
3354052	NONCOMMUNITY	CAMP HORIZON	LEESBURG	INVESTOR	150	50,400	11	1
3354091	NONCOMMUNITY	MIDWAY MANOR	LEESBURG	INVESTOR	198	72,000	79	1
3354110	COMMUNITY	LAKESIDE VILLAGE II	LEESBURG	INVESTOR	191	120,000	105	1
3354142	COMMUNITY	COUNTRY LIFE FAMILY PARK	LEESBURG	INVESTOR	215	432,000	100	1
3354644	COMMUNITY	PINE HARBOUR WATER UTILITY	LEESBURG	INVESTOR	179	60,480	51	1
3354650	COMMUNITY	LEESBURG/THE PLANTATION	LEESBURG	INVESTOR	5,134	2,401,875	2,852	1
3354651	COMMUNITY	HAINES CREEK RV PARK	LEESBURG	INVESTOR	215	360,000	86	1
3354653	COMMUNITY	PENNBROOKE FAIRWAYS	LEESBURG	INVESTOR	2,488	864,000	1,244	1
3354657	COMMUNITY	DIAMOND POINT	LEESBURG	INVESTOR	245	468,000	98	1
3354660	COMMUNITY	SILVER OAKS SUBDIVISION	LEESBURG	INVESTOR	123	122,400	35	1
3354664	COMMUNITY	TREASURE COVE	LEESBURG	INVESTOR	126	154,080	58	1
3354668	NONCOMMUNITY	USA GROCERS	LEESBURG	INVESTOR	26	14,400	1	1
3354670	NONCOMMUNITY	ANGELINA LAKESIDE INN	LEESBURG	INVESTOR	25	115,200	12	1
3354677	NONCOMMUNITY	WHITNEY BAPTIST CHURCH	LEESBURG	OTHER	150	57,600	1	1
3354687	COMMUNITY	RAINTREE HARBOR	LEESBURG	INVESTOR	265	130,000	118	1
3354688	COMMUNITY	LAKE YALE ESTATES	LEESBURG	INVESTOR	101	468,000	58	1
3354707	NONCOMMUNITY	JESSIE BLACK (FRMLY COYOTES & ATTITUDES)	LEESBURG	INVESTOR	25	28,800	1	1
3354710	NONCOMMUNITY	ISLAND FOOD STORE #309/LISBON	LEESBURG	INVESTOR	25	18,000	1	1
3354727	NONCOMMUNITY	KANGAROO EXPRESS # 2292	LEESBURG	INVESTOR	25	18,000	1	1
3354743	NONCOMMUNITY	WHEELOCK MOTOR COURT	LEESBURG	INVESTOR	25	6,480	6	1
3354757	NONCOMMUNITY	MOOSE LODGE #1271/LEESBURG	LEESBURG	TRUST/COOPERATIVE	25	25,000	1	1
3354787	NONCOMMUNITY	GREEN OAKS RETIREMENT PARK	LEESBURG	SUBDIVISION	28	43,200	14	1
3354812	NONTRANSIENT NONCOMMUNITY	WOLVERINE ADVANCED MATERIALS	LEESBURG	INVESTOR	59	120,000	1	1
3354813	NONCOMMUNITY	LISBON CHURCH OF GOD	LEESBURG	OTHER	25	10,800	2	1
3354833	NONCOMMUNITY	UNITED SOUTHERN BANK	LEESBURG	INVESTOR	25	50,400	1	1
3354848	NONCOMMUNITY	CHRISTIAN MINISTRIES WORSHIP CENTER	LEESBURG	OTHER	25	5,870	3	1
3354869	COMMUNITY	LEESBURG/HIGHLAND LAKES	LEESBURG	MUNICIPALITY	2,362	1,312,000	1,181	1
3354923	NONCOMMUNITY	D.A.V. CHAPTER AND UNIT #87	LEESBURG	OTHER	25	10,000	1	1
3354928	NONTRANSIENT NONCOMMUNITY	SUNRISE ARC OF LAKE COUNTY	LEESBURG	INVESTOR	80	28,800	2	1

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3354929	COMMUNITY	LEESBURG/ROYAL HIGHLANDS	LEESBURG	MUNICIPALITY	1,920	1,236,000	960	1
3354958	NONCOMMUNITY	UNITED FAITH ASSEMBLY OF GOD	LEESBURG	OTHER	80	0	1	1
3350812	COMMUNITY	MASCOTTE WATER DEPARTMENT-2WPS	MASCOTTE	MUNICIPALITY	6,076	1,475,000	1,736	2
3350836	COMMUNITY	MINNEOLA WATER DEPARTMENT (2 WPS)	MINNEOLA	MUNICIPALITY	13,384	8,437,000	3,824	3
3351348	COMMUNITY	HILL THE	MINNEOLA	SUBDIVISION	90	357,525	42	1
3350846	COMMUNITY	MONTVERDE MOBILE HOME SD	MONTVERDE	INVESTOR	800	576,000	280	1
3350847	COMMUNITY	MONTVERDE WATER DEPARTMENT	MONTVERDE	MUNICIPALITY	1,204	1,775,000	665	2
3354647	COMMUNITY	FOUR LAKES AND HARBOR OAKS S/D	MONTVERDE	INVESTOR/LICENSED PUBLIC UTILITIES	228	151,200	65	1
3354959	NONTRANSIENT NONCOMMUNITY	WOODLANDS LUTHERAN CHURCH	MONTVERDE	INVESTOR	440	57,600	3	1
3350858	COMMUNITY	MOUNT DORA CITY OF	MOUNT DORA	MUNICIPALITY	38,875	8,970,000	11,107	1
3354722	NONCOMMUNITY	LOS LAURELES COUNTRY STORE	MOUNT DORA	INVESTOR	25	6,480	3	1
3354942	NONTRANSIENT NONCOMMUNITY	ROUND LAKE ELEMENTARY SCHOOL	MOUNT DORA	COUNTY	900	48,000	6	1
3350417	COMMUNITY	FORESTER HAVEN II	MT DORA	INVESTOR	64	288,000	9	1
3351567	COMMUNITY	BAYWOOD CONDOMINIUMS	MT DORA	INVESTOR	200	252,000	100	1
3354141	NONCOMMUNITY	FLORIDA TWIN MARKETS INC.	MT DORA	INVESTOR	25	64,800	10	2
3354655	COMMUNITY	CARLTON PALMS EDUCATIONAL CTR	MT DORA	INVESTOR	100	28,800	12	1
3354822	NONTRANSIENT NONCOMMUNITY	HANDEX OF FLORIDA INC.	MT DORA	INVESTOR	60	6,000	2	1
3354861	NONTRANSIENT NONCOMMUNITY	BAUCOM'S OF FLORIDA	MT DORA	INVESTOR	89	61,200	10	1
3354704	NONCOMMUNITY	AMOCO #157/MT. PLYMOUTH	MT PLYMOUTH	INVESTOR	25	8,000	1	1
3354952	NONTRANSIENT NONCOMMUNITY	HURLEY OFFICE COMPLEX	MT. DORA	INVESTOR	50	18,000	2	1
3354950	NONCOMMUNITY	ROUND LAKE CHRISTIAN CHURCH	MT. DORA	OTHER	260	18,144	1	1
3354921	NONCOMMUNITY	LANGE PLAZA	MT. PLYMOUTH	INVESTOR	25	21,600	2	1
3354696	NONTRANSIENT NONCOMMUNITY	LCT TRANSPORTATION SERVICE	OKAHUMPKA	INVESTOR	100	36,000	4	1
3354714	NONCOMMUNITY	ISLAND FOOD STORE #311	OKAHUMPKA	INVESTOR	26	20,880	1	1
3354715	NONCOMMUNITY	ISLAND FOOD STORE #312	OKAHUMPKA	INVESTOR	26	7,200	1	1
3354819	NONCOMMUNITY	MT. OLIVE BAPTIST CHURCH	OKAHUMPKA	OTHER	26	10,800	1	1
3354870	NONTRANSIENT NONCOMMUNITY	COVANTA LAKE INC	OKAHUMPKA	INVESTOR	35	324,000	1	1

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3354937	NONCOMMUNITY	FRAT. ORDER OF EAGLES#4273 (EAGLES AIRE)	OKAHUMPKA	OTHER	200	12,000	3	1
3350138	NONCOMMUNITY	LA-NO-CHE SCOUT RESERVATION	PAISLEY	INVESTOR	12	144,000	50	1
3350249	COMMUNITY	COUNTRY SQUIRE MOBILE HOME PK	PAISLEY	INVESTOR	320	241,920	123	1
3350284	NONCOMMUNITY	DEERHAVEN CAMPGROUND INC.	PAISLEY	INVESTOR	175	72,000	70	1
3354123	NONCOMMUNITY	LULU'S ALL AMERICAN DINER	PAISLEY	INVESTOR	25	8,640	2	1
3354841	NONCOMMUNITY	FIRST BAPTIST CH OF PAISLEY	PAISLEY	OTHER	50	20,000	2	1
3354857	NONCOMMUNITY	PAISLEY UNITED METHODIST CHURCH	PAISLEY	OTHER	25	1	2	1
3354902	NONTRANSIENT NONCOMMUNITY	SPRING CREEK ELEMENTARY	PAISLEY	COUNTY	750	144,000	9	1
3354919	NONTRANSIENT NONCOMMUNITY	PAISLEY OAKS CHILD LEARNING CTR	PAISLEY	INVESTOR	48	14,400	1	1
3354936	NONCOMMUNITY	BIG OAK ITALIAN RESTAURANT	PAISLEY	INVESTOR	50	14,400	1	1
3354914	NONCOMMUNITY	FIRST BAPTIST CHURCH OF PINE LAKES	PINE LAKES	OTHER	90	39,600	1	1
3350133	NONCOMMUNITY	CAMP CHALLENGE	SORRENTO	OTHER	75	72,000	22	1
3350907	COMMUNITY	OAK SPRINGS MOBILE HOME PARK	SORRENTO	INVESTOR	1,050	576,000	441	1
3351455	NONCOMMUNITY	WEKIVA FALLS RESORT	SORRENTO	INVESTOR	352	151,200	789	1
3354085	NONCOMMUNITY	EAST LAKE PLAZA	SORRENTO	INVESTOR	25	10,000	4	1
3354121	NONCOMMUNITY	OASIS SALOON AT SORRENTO	SORRENTO	INVESTOR	25	13,680	1	1
3354671	NONCOMMUNITY	WILKINSON AUCTION INC.	SORRENTO	INVESTOR	25	10,000	3	1
3354705	NONCOMMUNITY	CIRCLE K #7275/SORRENTO	SORRENTO	INVESTOR	25	20,000	1	1
3354706	NONCOMMUNITY	KANGAROO EXPRESS #2799	SORRENTO	INVESTOR	25	18,000	1	1
3354725	NONCOMMUNITY	KANGAROO EXPRESS # 2403	SORRENTO	INVESTOR	25	17,280	1	1
3354753	NONCOMMUNITY	J J'S LOUNGE & PACKAGE	SORRENTO	INVESTOR	25	5,040	2	1
3354761	NONTRANSIENT NONCOMMUNITY	CHILD CARE 2000	SORRENTO	INVESTOR	53	20,000	1	1
3354769	NONCOMMUNITY	VILLAGE GROCERY/SORRENTO	SORRENTO	INVESTOR	25	17,280	4	1
3354770	NONCOMMUNITY	MT. PLYMOUTH GROCERY	SORRENTO	INVESTOR	25	6,960	2	1
3354826	NONTRANSIENT NONCOMMUNITY	FIRST BAPTIST CHURCH OF SORRENTO	SORRENTO	OTHER	139	18,000	3	1
3354907	NONCOMMUNITY	SORRENTO CHRISTIAN CENTER	SORRENTO	OTHER	200	17,280	2	1
3354935	COMMUNITY	THE PARK AT WOLF BRANCH OAKS	SORRENTO	TRUST/COOPERATIVE	406	120,000	116	1
3354939	NONCOMMUNITY	SORRENTO CHURCH OF GOD	SORRENTO	INVESTOR	128	18,000	1	1
3354945	COMMUNITY	FAIRWAYS AT MOUNT PLYMOUTH	SORRENTO	INVESTOR	843	648,000	241	1

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3354954	COMMUNITY	HEATHROW COUNTRY ESTATES	SORRENTO	CITY	336	1,368,000	96	1
3350384	NONTRANSIENT NONCOMMUNITY	FISHERMAN'S COVE	TAVARES	INVESTOR	452	122,000	325	1
3350584	COMMUNITY	IMPERIAL TERRACE WEST	TAVARES	INVESTOR/LICENSED PUBLIC UTILITIES	603	288,000	241	1
3350601	NONCOMMUNITY	IRENE'S RESTAURANT & LOUNGE	TAVARES	INVESTOR	50	10,000	2	1
3350734	NONCOMMUNITY	LAKE HARRIS LODGE	TAVARES	INVESTOR	25	20,600	35	1
3350980	COMMUNITY	PALM GARDENS MOBILE HOME PARK	TAVARES	INVESTOR	30	32,000	140	1
3351022	COMMUNITY	FLORIDIAN GARDENS RESORT AND SPA VILLAGE	TAVARES	INVESTOR	27	30,000	31	1
3351095	NONCOMMUNITY	ROD 'N REEL ASSOCIATION	TAVARES	INVESTOR	12	38,000	24	1
3351333	COMMUNITY	TAVARES WATER DEPARTMENT (4 WPS)	TAVARES	MUNICIPALITY	22,463	9,178,000	6,418	4
3351361	NONCOMMUNITY	THREE PALMS TRAILER PARK	TAVARES	INVESTOR	12	14,400	32	1
3351579	COMMUNITY	THREE LAKES PARK	TAVARES	INVESTOR	104	43,200	58	1
3354005	COMMUNITY	COVE WATER SYSTEM INC.	TAVARES	INVESTOR	300	108,000	107	1
3354112	COMMUNITY	SUMMIT CHASE VILLAS	TAVARES	INVESTOR	770	169,000	220	1
3354126	NONCOMMUNITY	LAKE HARRIS HIDEAWAY	TAVARES	INVESTOR	25	50,000	2	1
3354658	COMMUNITY	SQUIRREL POINT	TAVARES	SUBDIVISION	140	216,000	40	1
3354662	COMMUNITY	LAKE BEAUCLAIRE S/D	TAVARES	INVESTOR	98	504,000	28	1
3354666	NONTRANSIENT NONCOMMUNITY	TRIANGLE INDUSTRIAL PARK	TAVARES	INVESTOR	40	1,008,000	14	1
3354695	COMMUNITY	LAKE SAUNDERS ACRES	TAVARES	INVESTOR/LICENSED PUBLIC UTILITIES	157	432,000	45	1
3354747	NONCOMMUNITY	DIVISION OF DRIVERS LICENSE	TAVARES	STATE	26	32,400	1	1
3354874	NONCOMMUNITY	RIVER PLAZA SHOPPING CENTER	TAVARES	INVESTOR	26	1	1	1
3354878	NONTRANSIENT NONCOMMUNITY	HOSPICE OF LAKE AND SUMTER	TAVARES	INVESTOR	40	32,400	8	1
3354892	NONTRANSIENT NONCOMMUNITY	REDDI ICE	TAVARES	INVESTOR	35	144,000	1	1
3354905	NONCOMMUNITY	WISEMAN GYMNASTIC ACADEMY	TAVARES	INVESTOR	150	28,800	2	1
3354943	COMMUNITY	POMEROSA PARK	TAVARES	INVESTOR	53	61,200	16	1
3354957	NONCOMMUNITY	SUNSHINE CENTER	TAVARES	INVESTOR	25	14,400	1	1
3351426	COMMUNITY	VENETIAN VILLAGE	TAVERES	INVESTOR/LICENSED PUBLIC UTILITIES	585	216,000	167	1
3350942	COMMUNITY	VILLAGES OF LAKE-SUMTER - WTPS 1 3 & 5	THE VILLAGES	CITY	24,533	10,527,000	9,813	3

PUBLIC WATER SYSTEM ID	TYPE	PROVIDER	CITY	OWNER TYPE	POP. SERVED	DESIGN CAPACITY (GAL/DAY)	SRVC CONNECT	# PLANTS
3350454	NONTRANSIENT NONCOMMUNITY	FLORIDA'S NATURAL GROWERS	UMATILLA	INVESTOR	100	864,000	13	1
3351221	COMMUNITY	SOUTH UMATILLA WATER INC - 2 WTPS	UMATILLA	INVESTOR	438	79,200	125	2
3351402	COMMUNITY	UMATILLA WATER WORKS	UMATILLA	MUNICIPALITY	5,166	1,440,000	1,476	1
3354124	NONCOMMUNITY	MASON JAR RESTAURANT/UMATILLA	UMATILLA	INVESTOR	25	8,600	1	1
3354689	NONCOMMUNITY	LAKESIDE R.V. PARK	UMATILLA	OTHER	25	19,440	55	1
3354786	NONCOMMUNITY	GOSPEL TABERNACLE OF UMATILLA	UMATILLA	OTHER	150	18,000	1	1
3350191	COMMUNITY	LEISURE MEADOWS MH RANCH	WEIRSDALE	INVESTOR	100	118,800	127	1
3354053	COMMUNITY	CITRUS COVE SUBDIVISION	WINTER GARDEN	OTHER	130	100,800	39	1
3351254	COMMUNITY	SPRINGS PARK AREA INC	YALAHA	INVESTOR	574	342,000	167	1
3354055	COMMUNITY	WATERWOOD SUBDIVISION	YALAHA	INVESTOR/LICENSED PUBLIC UTILITIES	295	504,000	118	1
3354718	NONCOMMUNITY	KANGAROO EXPRESS #2800	YALAHA	INVESTOR	26	18,000	1	1
3354720	NONCOMMUNITY	B.C. STORE & POST OFFICE	YALAHA	INVESTOR	26	6,840	2	1
3354924	NONCOMMUNITY	YALAHA COUNTRY BAKERY	YALAHA	INVESTOR	25	28,000	1	1

Source:

Data provided by Lake County is excerpted from FDEP District 3 Basic Facility Report, 2009

http://www.dep.state.fl.us/water/drinkingwater/downloads/reports/bfr_dist3.xls

173,835,109

TOTAL GALLONS PER DAY