

**SEMINOLE COUNTY GOVERNMENT
AGENDA MEMORANDUM**

SUBJECT: WATER SUPPLY FACILITIES WORK PLAN 2006

DEPARTMENT: Planning & Development **DIVISION:** Planning

AUTHORIZED BY: Donald S. Fisher **CONTACT:** Dick Boyer  EXT. 7382

Agenda Date: <u>08/08/2006</u>	Regular <input type="checkbox"/>	Consent <input type="checkbox"/>	Work Session <input type="checkbox"/>	Briefing <input type="checkbox"/>
	Public Hearing – 1:30 <input checked="" type="checkbox"/>		Public Hearing – 7:00 <input type="checkbox"/>	

MOTION/RECOMMENDATION:

1. Transmit to the Department of Community Affairs for review and comment the proposed text amendments to the Capital Improvements, Conservation, Future Land Use, Implementation, Intergovernmental Coordination, and Potable Water Elements of the Seminole County Comprehensive Plan to implement the Water Supply Facilities Work Plan with staff findings; or
2. Deny the proposed text amendments; or
3. Continue this item to a date and time certain.

District: Countywide

Dick Boyer, Senior Planner

BACKGROUND:

In 2002 and 2004, the Florida Legislature expanded the requirements for local governments in preparing Comprehensive Plans. The changes were designed to strengthen coordination of regional water supply planning with local land use planning. The requirements arose in response to concerns that the limits of groundwater are being approached in many areas of the State. The legislation directed that alternative water supplies be identified, quantified and developed by affected municipalities, with additional requirements including implementation of local water conservation strategies and Florida Department of Environmental Protection (FDEP) permitted water reuse programs.

The legislation requires completion of a 10-Year Water Supply Facilities Work Plan (Work Plan) by all counties and cities within a "priority water resource caution area". These are designated areas where existing and reasonably anticipated sources of water and conservation efforts may not be adequate to 1) supply water

Reviewed by:	<u>KFT</u>
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File No.	<u>ph130pdp03</u>

for all existing legal uses and reasonably anticipated future needs, and 2) sustain the water resources and related natural systems. The deadline for adoption of the Work Plan (including all necessary review and approval processes) is December 1, 2006.

The local governments' Work Plan must project water demands for at least a 10-year period, and must demonstrate that the current and planned water supply facilities and source(s) of water will meet the projected demand. The Work Plan must be adopted as part of the Potable Water Element of the community's Comprehensive Plan. The Capital Improvements Element (CIE) must be amended to include projects listed in the first five years of the ten-year Work Plan, as well as the text of other Plan elements, as appropriate. The Work Plan must be approved by the Department of Community Affairs (DCA), with review and comment to DCA provided by the St. Johns River Water Management District (District).

Seminole County (County) is located within a "priority water resource caution area", and has therefore prepared this Work Plan to meet the criteria set forth by the Legislature. The Work Plan addresses supply and demand for County service areas only. As each of the City and private-utility providers will be preparing their own individual work plans, this report includes only brief information on non-County water suppliers. The Work Plan will be updated on an annual basis, per the requirements of the legislation.

Legislative and Hearing History Regarding the Water Supply Work Plan

The original legislation had required that a Work Plan be accomplished by January 1, 2005. A draft Work Plan was prepared and presented to the Local Planning Agency on February 04, 2004 and to the Board of County Commissioners for transmittal to the Department of Community Affairs (DCA) on February 24, 2004.

Following that hearing, the 2004 Legislative Session extended the due date by one year to January 1, 2006, and DCA advised that local governments delay adopting their work plan until after the regional water supply plans have been updated.

The due date was again extended, this time to December 1, 2006, by the Wekiva Parkway and Protection Act (SB 908) passed during the 2005 Legislative Session. In February of 2006, the St Johns River Water Management District's (District) completed its update and adopted the District's Regional Water Supply Plan (RWSP) which identified potential water projects in which the County could participate.

About This Agenda Item

Following this background text, an overview of the Work Plan and the proposed amendments to the Comprehensive Plan are presented.

The Work Plan overview provides a brief description of the water project types. A more detailed description can be found in the enclosed Water Supply Facilities Work Plan Support Document.

The proposed amendments overview is presented in six (6) attachments, grouped by Comprehensive Plan element. The amendments are shown on Comprehensive Plan paper in strike and underline format. Depending on the need for amendment, an element may have one or more of its major sections – Introduction, Issues and Concerns or Goals, Objectives and Policies (GOPs) – added to, revised, or simply noted as an existing GOP that is applicable to the Work Plan.

Of particular note is the Potable Water Element – Attachment 1. Besides revising the Introduction, Issues and Concerns, and GOPs, a new text section, entitled “Water Supply Facilities Work Plan – Executive Summary”, is proposed. The Executive Summary describes the basic Work Plan in terms of commitments made to major water projects, their timing and funding, as well as any cooperative water supply efforts involving the District and/or other jurisdictions and will be inserted into the Potable Water Element along with several new Exhibits. The Work Plan document, the Executive Summary and Exhibits of the Potable Water Element will be updated annually as necessary.

The County has been and continues to work with the District on developing a financially feasible water supply plan strategy that will meet the needs of the County. It can be expected that the Work Plan will further evolve over the next few years as new facilities come on-line and other jurisdictions complete and submit their water supply plans.

The final two attachments to this agenda detail the legislative requirements and the economic impact of the Work Plan.

STAFF FINDINGS:

The proposed amendments and hearing schedule are designed to meet the legislative requirements for adoption of a Water Supply Facilities Work Plan. It is important to note that the Work Plan, once adopted, will be subject to annual review and revision as necessary by the County to take advantage of and incorporate water supply plan changes and opportunities occurring in the region and with local partners.

In the future, updates to the Work Plan will be part of the annual Comprehensive Plan update of the Capital Improvements Element’s five-year capital projects list. The second half of the ten-year project list will be updated annually in the Potable Water Element of the Comprehensive Plan.

STAFF RECOMMENDATIONS:

Adoption of the proposed amendments to the Capital Improvements, Conservation, Future Land Use, Implementation, Intergovernmental Coordination and Potable Water Elements.

BOARD ACTIONS:

July 12, 2006 Local Planning Agency (LPA) recommended adoption of the proposed amendments (6-0). Staff response to questions asked by the LPA follow:

A. The LPA asked if plumbing homes with reclaimed water would be of benefit? Staff response:

1. The additional plumbing needed would add significant cost to the home.
2. The saving in potable water usage would be minimal as the majority of household water is used in a manner that requires it be potable for health reasons. Targeting yard irrigation provides a greater saving of potable water and less costly alternative.
3. Even if reclaimed/reuse water system were initially installed by a licensed plumber and the pipes color coded, the potential for future cross-contamination by a do-it-yourself home-remodeler would be high.

B. The LPA asked why the homeowner is responsible for testing and maintaining their cross-connection control devices (back-flow preventors)? Staff response:

1. The backflow prevention device is an integral part of the customer's irrigation/potable water system and is installed downstream, customer side, of the meter serving the residence, usually by the side of the house. The cost to the County to implement its own inspection and testing program for all connections would be significant.

2. The County is instead seeking to provide a contract to supplement the existing program and provide, with County oversight, an inspection/testing and repair program for residential customers. One is already in-place for non-residential properties. This contract, once approved by the Board, would require that the customers pay to have the system inspected and tested annually. The County program would offer this service at a volume pricing rate negotiated by the County. Customers will also be able to select a contractor of their own choice if they wish but must ensure that the completed annual certification that their unit is working properly is submitted to the County Contractor who maintains the records for the County.

July 18, 2006 Board Work Session: Environmental Services Water and Sewer Capital Improvement Program and Water and Sewer Rates

August 8, 2006 Board of County Commissioners – Transmittal Hearing (scheduled)

October 24, 2006 Board of County Commissioners – Tentative Adoption Hearing

OVERVIEW OF WATER SUPPLY FACILITIES WORK PLAN

The Water Supply Facilities Work Plan explains the County's plans for providing potable water over the next ten years to users in unincorporated Seminole County. The Work Plan summarizes existing water supply sources and treatment facilities, current design capacities, permitted withdrawals, current average daily demands, and anticipated growth for the ten-year planning period. The document also indicates planned improvements (capital projects) necessary to implement the County's water-supply strategy.

The Work Plan continues the progressive plan that the County has implemented for the past 10 years. The County's plan is based on economically and environmentally sound solutions for water supply and distribution.

Examples of the proactive nature of the County's program, partnership with SJRWMD and other local utilities in use of alternative water supplies and lower-quality water sources include the following:

- Seminole County submitted a proposed project to SJRWMD for design and construction of a surface-water treatment facility for providing reuse augmentation water to users in the County's service areas. The SJRWMD has adopted this project into its overall Regional Water Supply Plan (RWSP), and agreed to partial funding (SB444) of the project.
- Seminole County has partnered with the Cities of Sanford and Lake Mary to share reclaimed water resources through the North Seminole Regional Reclaimed Water and Surface Water Augmentation System Expansion and Optimization Study. The program, referred to as the "Tri-Party Agreement", was primarily designed as the method used for the City of Sanford to transfer wastewater plant effluent, augmented by surface water, to both the County and Lake Mary.
- The County is also supporting, and investigating methods to participate in use of the City of Sanford's Mill Creek Pond project, which is also part of the overall Tri-Party Agreement. The pond, when completed, will provide over 200 million gallons of reclaimed water (and stormwater) storage for the area.
- An additional project via the Tri-Party agreement includes the development of recharge basins within the Sanford City limits, to which Seminole County is contributing funds.

In addition to the above, several types of water projects are either underway or proposed:

Water Supply From the Floridan Aquifer

Seminole County has been identified to be located within a "priority water resource caution area (PWRCA)" by the SJRWMD. The designation as a PWRCA is based on concerns that future groundwater withdrawals from the Upper Floridan Aquifer will reduce the discharge from nearby springs and contribute to migration of high chloride water from the Wekiva River, St. Johns River, the Econlockhatchee River and the Little

Econlockhatchee River. The program involves new wells, treatment facility improvements, and distribution system improvements.

Reuse Water

Seminole County Environmental Services Department (SCESD) currently provides reclaimed water to public access reuse customers in the Northwest and Northeast Service Areas, and is a member of the Tri-Party reuse and Eastern Regional Reclaimed Water System cooperatives. The current system provides approximately 1.9 million gallons per day (mgd) of reclaimed water, from one or both of the County's wastewater treatment facilities, to over 80 commercial users in the Northwest Service Area. In the Southeast Service Area, the County provides bulk purchase of reclaimed water to the City of Oviedo and the University of Central Florida. SCESD is planning expansion of its public access reuse system to additional customers including residential retrofits in the Northwest, Northeast and potentially the Southeast Service Areas.

Water Conservation

Seminole County has consistently participated in water conservation education and infrastructure over the years. Due to recent focus on water planning and the SJRWMD's RWSP, the County expanded its Water Conservation Program. A full-time Water Conservation Coordinator was hired by the SCESD in May 2001 to plan and manage the Program. The County has initiated a study to develop new water conservation plans for each service area, which will be completed by late 2006. Once the County approves these plans, they will be submitted to the SJRWMD for review.

Alternative Water Supply (Water from sources other than the aquifer)

Seminole County's plan for alternative water includes the design and construction of a reuse augmentation surface-water treatment facility at the County's Yankee Lake property. Augmentation of reclaimed water flows from the County's two wastewater treatment facilities is necessary based on the projected reuse-system expansion to handle peak reuse demands. The reuse system expansion, designed to reduce potable groundwater irrigation uses to within proposed CUP limitations, includes residential retrofit projects.

Water Resource Development – New Methods

The SJRWMD is sponsoring an aquifer storage and recovery (ASR) feasibility and testing program within priority water resource caution areas. A desktop assessment of ASR feasibility for Seminole County's North West Service Area (NWSA) was prepared in October 2002. Two sites were evaluated as part of the desktop assessment; the Markham site located approximately 3,000 feet north of the Markham Water Treatment Plant (WTP) and the Yankee Lake property. The results of the desktop assessment indicated that based on the limited amount of available hydrogeologic data, ASR was feasible within the NWSA.

Funding Plan

Established or planned funding sources for the CIP include: current system equity, connection fee receipts, State grants for alternative water only, and outside funding sources. Outside sources are anticipated to be comprised of revenue bonds, and possibly the State Revolving Funds (SRF).

OVERVIEW OF PROPOSED AMENDMENTS

(Existing GOPs that apply to the Work Plan but needed no revision are noted simply by underlining the policy number and title.)

The amendments proposed have been made in accordance with legislation and serve to strengthen the position of the Water Supply Facilities Work Plan (Work Plan) in the Comprehensive Plan and ensure that the St. Johns River Water Management District's Regional Water Supply Plan (RWSP) is considered and coordinated with by the County, and that a ten-year planning period is maintained year-to-year.

Additional existing policies have been noted which are applicable to and supportive of the Work Plan.

Potable Water Element

This element has been significantly revised to add a new objective with policies regarding the Work Plan as well as a special text section added that fully describes the Work Plan. New exhibits have also been added detailing work to be done over the next ten (10) year period. The following GOPs provide support and are consistent with the Work Plan:

- Element Introduction Section – Text revised.
- Issues and Comments Section – Text revised.
- *Policy POT 1.4 – Water Conservation Program* – Policy added.
- *Policy POT 1.5 – Conservation Devices* – No change, formerly POT 1.4.
- *Policy POT 1.6 – Emergency Water Conservation* – No change, formerly POT 1.5.
- *Policy POT 1.7 – Effluent Reuse* – Text revised, formerly POT 1.6.
- *Policy POT 3.1 – Levels of Service Standards* – Text revised.
- *Policy POT 3.2 – Water Master Plan* – Text revised.
- *Policy POT 4.4 – Wholesale Agreements* – Text revised.
- *Objective POT 5 – Coordination of Water and Land Use Management* – New objective added including eight policies. These policies address the requirements for a ten (10) year Work Plan that is updated annually, coordinated with the Regional Water Supply Plan of the St Johns River Water Management District and is linked to the land use planning process through population projections based on buildable acres by future land use being the starting input for water demand projections and through the implementation of concurrency policies ensuring permits are not issued when capacity is not available.
- Water Supply Facilities Work Plan - Executive Summary – New text section added to the Element. This section and associated exhibits serves to set out the current extent and project schedule of the Work Plan. Changes are made by amendment to the Comprehensive Plan and, where appropriate, are then incorporated into the standalone Water Plan support document and into the Capital Improvements Element.
- Potable Water Element Exhibits Section

- *Exhibit POT: Capacity/Improvements Summary* – Summary of service area capacities and demands. This table is duplicated in the Capital Improvements Element.
- *Exhibit POT: Water Supply Programs* – New exhibit providing an overview of major project schedules.
- *Exhibit POT: Seminole County Water Services Areas* – Revised map exhibit of all water providers.
- *Exhibit POT: Seminole County Potable Water System and WTP Locations* – Revised map exhibit of water treatment plants.
- *Exhibit POT: Seminole County Potable Water System and Well Locations* – Revised map exhibit of wells.
- *Exhibit POT: Ten-Year Water Supply Program Project List* – New exhibit providing a summary of major capital expenditures related to the water supply Work Plan.

Capital Improvements Element

The Exhibits of the Capital Improvements Element (CIE) are updated annually for each of the Comprehensive Plan's facility elements. Within each element's section, a comparison of projected service demand with available and planned capacity is prepared and a five (5) year listing of facility projects is presented. The project listing of capital projects is tested for financial feasibility – the fund dollars that are matched with projects represent dollars which the Board of County Commissioners has authority over without reliance on public referendum or are guaranteed by an interlocal agreement or contract. The following GOPs provide support and are consistent with the Work Plan:

- *Policy CIE 1.5 Capital Improvements Element Consistency With Other Elements* – Existing policy.
- *Policy CIE 1.12 Maintaining Consistency with Water Supply Facilities Work Plan Projects* – Added policy. Policy added to ensure that capital projects for the first five (5) years of the Work Plan are included in the CIE, that these projects are updated annually and that the established potable water levels of service are also shown in the CIE.
- *Policy CIE 3.1 Adopted Level of Service Standards and Schedules of Capital Improvements* – Existing policy.
- *Policy CIE 3.4 Concurrency Management* – Existing policy.
- Capital Improvements Element Exhibits Section
 - *Exhibit CIE: Capacity/Improvements Summary* – Existing exhibit. A duplicate of the most current information from the Work Plan which is updated annually with the latest design and permit capacities and current water demand figures for the County's water service areas.
 - *Exhibit CIE: Five-Year Water Supply Program Project List* – New exhibit providing a summary of major capital expenditures related to the water supply Work Plan.

Conservation Element

This element directs that the Work Plan identify and implement a variety of water strategies that will enable the County to meet current and future projected demands in a manner consistent with and coordinated with the Regional Water Supply Plan. The following GOPs provide support and are consistent with the Work Plan:

- *Issue CON 3 – Updated current status.*
- *Objective CON 1 Groundwater Protection – This objective contains seventeen existing policies dealing with the protection of groundwater either from over-withdrawal or contamination. Policies are also included that direct the County to work with the District regarding groundwater modeling, well-capping, and safe withdrawal rates. The following two policies have been added under this objective:*
- *Policy CON 1.17 Ten-Year Water Supply Facilities Work Plan Water Supply Plan – Policy added. Directs that ten-year Work Plan be implemented in the Potable Water Element.*
- *Policy CON 1.18 Coordination with Regional Water Supply Plan – Policy added. Directs that the most current Regional Water Supply Plan be coordinated during the annual update of the Work Plan.*

Future Land Use Element

Two objectives in this element address public facilities and services and intergovernmental coordination. In general, the establishment of interlocal agreements has been more difficult than anticipated; however, the County is continuing to actively work on securing joint planning agreements with each of the cities. The following policies in particular are to be considered in implementing the Work Plan:

- *Policy FLU 6.2 Concurrency Requirements – Existing policy. Addresses providing services at the adopted level of service.*
- *Policy FLU 7.2 Joint Planning Agreements – Existing policy. Addresses provision of services and facilities.*
- *Policy FLU 7.3 Future Service Areas – Existing policy. Addresses providing cost-effective service.*
- *Policy FLU 7.9 Coordination of Levels of Service – Existing policy. Addresses ensuring compatible adopted levels of service with neighboring jurisdictions.*

Implementation Element

This element sets out the County's Concurrency Management System. Of the numerous policies, the following is most relevant to the Work Plan, linking sufficient facility capacity to the demands of development:

- *Policy IMP 2.5 Development Orders: Capacity Determinations and Availability - Existing Policy. Sets standards for determining the availability of public facility capacity concurrent with the impact of development orders or permits.*

Intergovernmental Coordination Element

This element lists a variety of ways in which the County shall attempt to coordinate with other jurisdictions and entities. As noted under the Future Land Use Element above, the establishment of interlocal agreements has been more difficult than anticipated. Although joint planning agreements are not yet established with each city, the County is continuing to actively work on securing such agreements with each of the cities. Two of the key policies in the Intergovernmental Element have been singled out here that have a more direct impact:

- *Policy IGC 1.9 Joint Processes for Collaborative Planning* – Existing policy. The target date of Dec 21, 2002 for joint planning agreements with all the cities was not achieved. The County has successfully completed various water agreements regarding wholesale use and emergency interconnects that have served to maximize facility use and reduce duplication of services.
- *Policy IGC 3.3 Plan Coordination* – Revision to existing policy. Emphasis added on ensuring coordination with the Regional Water Supply Plan.

ENCLOSURE

See bound document entitled:

WATER SUPPLY FACILITIES WORK PLAN 2006

ATTACHMENTS

Amended pages to Elements of the Comprehensive Plan are presented under the following attachment headings. Where a policy has not been added or revised but is being noted because of its applicability to the Work Plan, the policy number and title have been underlined.

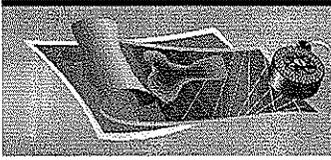
ATTACHMENT TITLE	AMENDMENT NUMBERING
1. Potable Water Element	06F.TXT02.1.01 through .24
2. Capital Improvements Element	06F.TXT02.2.01, .02, .03
3. Conservation Element	06F.TXT02.3.01, .02, .03
4. Future Land Use Element	Notation Only
5. Implementation Element	Notation Only
6. Intergovernmental Element	06F.TXT02.4.01
7. Legislative Requirements	NA
8. Economic Impact Statement	NA

ATTACHMENT 1

Proposed Amendments to the Potable Water Element (06F.TXT02.1)

- **Revision to Introduction**
- **Revision to Issues and Concerns**
- **Revision to Goals, Objectives and Policies**
- **Addition of “Water Supply Facilities Work Plan – Executive Summary” Section**
- **Revision to Exhibits**

(Note: The amendments have been inserted directly into the appropriate Comprehensive Plan pages in strike and underlined format indicating deletion and addition respectively. Objectives or policies simply being noted as supportive of the Work Plan have their titles underlined.)



Vision 2020 Comprehensive Plan Seminole County, Florida

POTABLE WATER ELEMENT INTRODUCTION

Potable water is pumped from the ground, treated and distributed to residential and non-residential unincorporated Seminole County users through County, city and private water systems. -The County currently provides potable water service to four major service areas in the unincorporated area:

owns and operates nine water treatment plants in three service areas:

- ~~A~~• Southwest Service Area --Served by the Lynwood plant; In 2004, Seminole County purchased seven privately owned water treatment and distribution systems from Florida Water Services (FWS), which are now considered part of the South West Service Area, although the service areas are not adjacent. One of the treatment facilities was abandoned since the purchase, and only the distribution system in that area is now maintained. The SWSA is supplied by the following facilities all of which were former FWS utilities except Lynwood: Lynwood WTP, Apple Valley WTP , Dol Ray Manor WTP, Druid Hills WTP, Fern Park (distribution system only), Lake Brantley WTP, Lake Harriet Estates WTP, Meredith Manor WTP;
- ~~B~~• Southeast Service Area - Served by the Consumers, Indian Hills, and Lake Hayes plants; and
- ~~X~~• Northwest Service Area - Served by the Heathrow, Hanover Woods, Lake Monroe and Markam, Country Club, and Greenwood Lakes plants;
- Northeast Service Area – Served by the Country Club and Greenwood Lakes plants.

Additional potable water service is provided to portions of unincorporated users areas by the several cities and private water providers as detailed in the Water Supply Facilities Work Plan. of Altamonte Springs, Casselberry, Lake Mary, Oviedo and Sanford, and by two major private water utilities.

The County operates the potable water system as a fee-based enterprise. To ensure a continued supply of water, the Water and Wastewater Division of the County's Environmental Services Department does an annual budget and five-year capital plan for maintenance, replacement and capacity expansion based on a five year master plan. Additionally, the County works with the cities and private utilities to share wholesale service and works with the St Johns River Water Management District regarding the long term projected growth of demand for water services in Seminole County.

In 2002 and 2005, the Florida Legislature added additional requirements for the long term planning and coordination of the use of available water supplies. These requirements were addressed by a Comprehensive Plan amendment to the Potable Water Element in 2006. These amendments are more fully discussed in the Issues and Concerns section and the Water Supply Facilities Work Plan section of this Element.

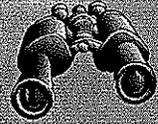
~~In the past decade~~Since the early 1990's, public health and safety has been furthered by the expansion of the water fluoridation program and the adoption of a cross-connection control (backflow prevention) ordinance to reduce the chance of water contamination within the distribution system. Additionally, the Public Safety Department operates an underground fuel storage tank replacement program to reduce the possibility of ground water supply contamination.

(Revised: Amendment 06EX.TXT02.1.01, Ordinance 2006-XX, 10/24/2006)



Vision 2020 Comprehensive Plan

Seminole County, Florida



The County requires wastewater reuse agreements where available of all new development. Other methods to increase conservation include public education; periodic amendment of the Building Code requirements to require use of water saving devices in development; amendment of the Land Development Code to require the use of drought tolerant species and water conserving irrigation techniques (known as Xeriscaping); and application of a surcharge for excessive consumption. Approved conservation methods should be used singly or in combination on a site-specific basis.

Additionally, St. Johns River Water Management District (SJRWMD) and Seminole County have a joint agreement to equally share the cost of permanently plugging abandoned artesian wells in Seminole County, with owner consent. Abandoned wells are plugged by pumping grout cement through PVC pipe into the bottom of the well. Since the SJRWMD-Seminole County Cost Share Program began in 1992, over 229 wells have been permanently plugged or repaired resulting in the reduction of approximately 22 million gallons per day from flowing onto the ground.

Issue POT 5

Levels Of Service

The State requires that local jurisdictions assure that adopted levels of water service be maintained concurrent with the demand for those services.

The Goals, Objectives and Policies section establishes the County's level of service as 350 gallons of water per day (average daily flow) per Equivalent Residential Connection (ERC) for each individual service area. The amount of peak treatment facility capacity required is established as a minimum of 2.0 times the average daily flow. These levels of service shall also be applied for planning purposes to private and city utilities serving unincorporated customers unless a different level of service is authorized by the Florida Department of Environmental Protection or is adopted in a comprehensive plan.

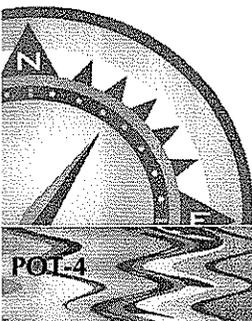
The County will continue to operate in compliance with all rules and requirements of FDEP, including, but not limited to, peak day, peak hour and service pressure requirements.

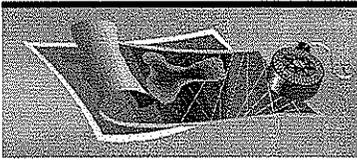
Issue POT 6

Future Water Supply

During 2000 and 2001, the St Johns River Water Management District (District) has worked to identify the water needs of the District through the year 2020. For the last 15 years, SJRWMD's water supply planning and assessment investigations have documented that the rate of withdrawal of groundwater in certain areas of SJRWMD is approaching the maximum rate that can be sustained without causing unacceptable adverse impacts to the water resources and related natural systems. Water supply planning results to date show that at some locations, withdrawal rates will likely approach or reach sustainable limits in the foreseeable future, well within the current 20-year planning horizon.

The 2005 District Water Supply Plan (DWSP 2005) [also known as the Regional Water Supply Plan, (RWSP)] addresses current and future water use, traditional and alternative water sources, and water conservation required to meet 2025 water supply needs while sustaining water quality and protecting wetland and aquatic systems. DWSP 2005 is designed to meet the requirements of the water supply planning provisions of Section 373, Florida Statutes (F.S.), and is based on a planning horizon extending through 2025. (The above text for this section was excerpted from: Technical Publication SJ2006-2, District Water Supply Plan, 2005)





Vision 2020 Comprehensive Plan Seminole County, Florida

The results of the RWSP indicate the potential need for new regional facilities, new water storage methods and a much stricter consumptive use permitting for new and existing wells. The County will continue to be fully engaged in the regional process of addressing and resolving future water supply these issues. As a part of maintaining this involvement, the County will continue to participate in the East Central Florida Water Supply Planning Initiative.

(Revised: Amendment 06EX.TXT02.1.02, Ordinance 2006-XX, 10/24/2006)

Issue POT 7 Water Supply Facilities Work Plan

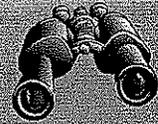
In 2002, the Legislature expanded the local government comprehensive plan (Plan) requirements to strengthen coordination of water supply planning and local land use planning. This was done in response to concerns that the limits of groundwater are being approached in many areas of the State and that alternative supplies must be identified, quantified and developed in addition to the implementation of local water conservation strategies and Florida Department of Environmental Protection permitted water reuse programs.

The most significant requirement is completion of a 10-year Water Supply Facilities Work Plan (Work Plan) by all counties and cities within a "priority water resource caution area". These plans must be prepared in a manner which demonstrates consideration of the Regional Water Supply Plan (RWSP) updated by the SJRWMD in February of 2005. These are areas where existing and reasonably anticipated sources of water and conservation efforts may not be adequate to 1) supply water for all existing legal uses and reasonably anticipated future needs and 2) sustain the water resources and related natural systems.

The Work Plan must identify the current and planned water supply facilities and source(s) of water that will meet the projected demand and must be adopted as part of the Potable Water Element. The Capital Improvements Element must also be amended to include projects listed in the first five years of the ten-year Work Plan. Additionally, appropriate goals, objectives and policies of these and other Plan elements must be amended or put in place in support of the Work Plan.

In 2006, the County began the amendment process to incorporate the Work Plan as required by law. Once adopted, the Work Plan shall be amended annually as necessary to maintain a current and active water supply program that is in coordination with the RWSP.
(Added: Amendment 06EX.TXT02.1.03, Ordinance 2006-XX, 10/24/2006)





POTABLE WATER ELEMENT GOAL, OBJECTIVES AND POLICIES

GOAL

The County shall provide quality public water facilities to serve existing and future development needs in a cost efficient, highly reliable, and environmentally sound manner.

OBJECTIVE POT 1 ENVIRONMENTAL AND CONSERVATION POLICIES

The County shall ensure that the provision of water service and the operation of water treatment facilities under its control is accomplished in a manner which will minimize to the maximum practicable extent, any adverse impacts on the environment, public safety, residential neighborhoods and/or surrounding properties through the implementation of the following policies:

Policy POT 1.1 Back Flow Prevention

The County shall enforce its backflow prevention ordinance that enables the County to require inspection, testing and maintenance of backflow devices as well as the retrofitting of existing facilities to meet the requirements of the ordinance. The ordinance also provides for the use of sanctions such as citations and/or disconnection if standards are not met.

Policy POT 1.2 Safe Drinking Water Act

The County shall monitor amendments to the Safe Drinking Water Act, as amended. Significant amendments shall be brought to the Board's attention in a timely manner through a preliminary impact analysis statement provided to the Board by the Department of Environmental Services describing the range of known solutions, estimated cost of each and a future timetable to precisely identify the most appropriate and cost effective method of compliance.

Policy POT 1.3 Fluoridation

The County shall continue the existing program of water fluoridation.

Policy POT 1.4 Water Conservation Program

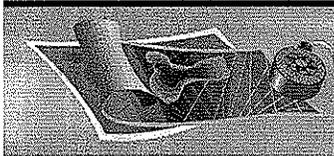
- A The County shall ensure that current and proposed conservation practices meet or exceed conditions of the current Consumptive Use Permit (CUP), and
- B Ensure such practices are consistent with conservation practices identified in the CUP technical staff report, and
- C Ensure these practices are incorporated into the Potable Water Element's Water Supply Facilities Work Plan Executive Summary.

(Added: Amendment 06EX.TXT02.1.04, Ordinance 2006-XX, 10/24/2006)

Policy POT 1.54 Conservation Devices

Each update of the Land Development Code or Building Code shall include new requirements or revisions for water conservation devices and methods as needed. Such methods might include but are not limited to provisions for the use of drought tolerant species and water conserving irrigation techniques (Xeriscaping), and surcharges for excessive consumption. Approved conservation methods shall be used singly or in combination on a site-specific basis. The County shall coordinate with





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SJRWMD to reduce groundwater withdrawals for non-essential uses that consume large quantities of water (i.e. the filling of decorative fountains and ponds).

Policy POT 1.65 Emergency Water Conservation

The County shall continue to have and shall amend, as necessary, the emergency water conservation ordinance to enable the County to limit water usage by methods that may include, but are not limited to, citations with fines in order to enforce restrictions, and surcharges for excessive consumption and use methods as are otherwise authorized by law. The ordinance shall, at a minimum, be consistent with the St. Johns River Water Management District's Emergency Water Conservation requirements.

Policy POT 1.76 Effluent Reuse

A The County shall continue to require all development to enter into effluent reuse agreements as a condition of sewer service. —Actual implementation of such agreements shall be based on, but not limited to, the following considerations: availability of effluent supply, distance from the facility, the nature of the soils and the nature of the development.

B The County shall ensure that current and proposed reuse practices meet or exceed conditions of Consumptive Use Permit (CUP), and

C Ensure such practices are consistent with the reuse practices identified in the CUP technical staff report, and,

D Ensure current and proposed reuse practices are consistent with the Regional Water Supply Plan, including the 2004 interim update, and other related reuse plans, and

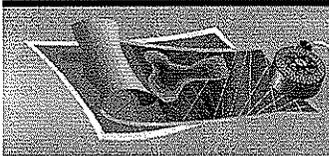
E Ensure these practices are incorporated into the Potable Water Element's Water Supply Facilities Work Plan Executive Summary.

(Revised: Amendment 06EX.TXT02.1.05, Ordinance 2006-XX, 10/24/2006)

Policy POT 1.87 Required Connection to Central Water Service

The County shall require within the unincorporated urban area, as described in *Exhibit FLU: Urban/Rural Boundary*, connection to central water service where available as defined by Chapter 64E-6, F.A.C. or when a County capital project is scheduled and authorized to begin construction in the County's then current adopted annual budget or construction is committed to begin within one (1) year in an enforceable schedule contained within a binding developer's agreement.





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OBJECTIVE POT 3 LEVELS OF SERVICE

The County shall establish and maintain a set level of service for each County potable water facility by providing facilities with sufficient capacity to meet projected service demands.

Policy POT 3.1 Levels of Service Standards

The County shall maintain adopted levels of service standards through the day-to-day activities of the Department of Environmental Services and the implementation of the adopted Capital Improvements Element and the adopted annual budget. Current and proposed level of service standards shall be consistent both in this policy and in the Potable Water Element's Water Supply Facilities Work Plan.

(Revised: Amendment 06EX.TXT02.1.06, Ordinance 2006-XX, 10/24/2006)

The following levels of service standards are adopted for each individual service area:

- A 350 gallons/day/Equivalent Residential Connection. Flow demands for commercial, industrial or other special developments differing from the flow values established by the serving utility shall be established from existing records or by estimated projections, using the best available data.
- B Fire flows in single family residential areas shall provide 600 gpm at a 20 psi residual pressure. Fire flows in commercial, institutional, industrial areas and apartment or multi-unit complexes shall provide 1,250 gpm at a 20 psi residual pressure.
- C Each peak treatment facility capacity shall be maintained at a minimum of two times (2) the permitted capacity.
- D These levels of service shall also be applied for planning purposes to private and city utilities serving unincorporated customers unless a different level of service is authorized by the Florida Department of Environmental Protection or as adopted in a comprehensive plan.
- E The County shall continue to operate in compliance with all rules and requirements of FDEP, as well as all other applicable laws, rules and regulations, including but not limited to peak day, peak hour and service pressure requirements.

Policy POT 3.2 Water Master Plan

The County shall update the Water Master Plan every five years. As part of the update, the County shall conduct a level of service review to determine if adjustment of the existing level is necessary based on, but not limited to, historical data and projected demand. The Master Plan shall be revised and updated to be consistent with and supportive of the Water Supply Facilities Work Plan.

(Revised: Amendment 06EX.TXT02.1.07, Ordinance 2006-XX, 10/24/2006)

Policy POT 3.3 New and Replacement Equipment

The County shall maintain the established levels of potable water service through the acquisition of new and replacement equipment in accordance with the adopted five year Capital Improvements Element.

Policy POT 3.4 Transmission Lines

The County shall ensure that future transmission lines are sized to adequately meet the projected demands of development according to development phasing needs based upon



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OBJECTIVE POT 4 COORDINATION AND URBAN SPRAWL

The County shall coordinate the extension of lines or increase of facility capacity with adjacent municipal and private facilities and discourage urban sprawl through implementation of the following policies:

Policy POT 4.1 Evaluation of Service Area Expansion

The County shall evaluate the impact on delivering adequate service to residents within the adopted service area as depicted in *Exhibit POT: Water Service Areas* prior to the expansion of a potable water service area outside the adopted service area boundaries. The County shall not expand the service area if the adopted level of service in the existing service area cannot be maintained or if the expansion will encourage urban sprawl.

Policy POT 4.2 Methods of Providing Potable Water Outside of the Adopted Urban Service Area

Outside of the Adopted Urban Service Area as depicted in *Exhibit FLU; Special Area Boundaries*, the County shall:

- A Continue to rely primarily upon individual wells as the method of providing potable water to the residents and other occupants outside the urban services area.
- B Encourage private central systems that exist as of the adoption date of this Plan to continue to provide an adequate level of service to users in their respective service areas, although the County shall discourage them from expanding their service areas.
- C New development outside adopted central service areas shall not be designed nor constructed with central water and/or sewer systems.
- D Public and private central systems may be permitted in the future if it is clearly and convincingly demonstrated by the proponents of the system expansion that a health problem exists in a built but unserved area for which there is no other feasible solution. In such cases, the service area expansion plans will be updated concurrent with an area-wide administrative land use update.

Policy POT 4.3 Existing Package Plants

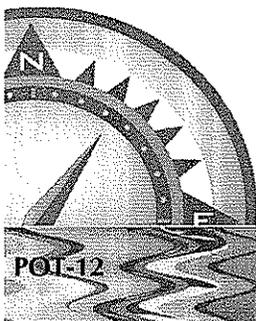
Existing package plants (i.e., schools, mobile home parks) shall be requested by the County to hook-up to the County system when it becomes available.

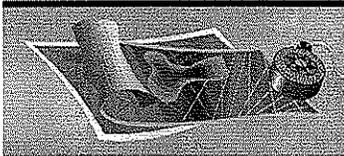
Policy POT 4.4 Wholesale Agreements

- The County shall enter into wholesale agreements with municipal and/or private utilities to encourage the most cost effective and efficient provision of water services and to avoid duplication of services during County expansion of capacity or lines when and where economically feasible and supportive of the County's long term water planning strategy.
- Wholesale agreements shall be incorporated into the Water Supply Facilities Work Plan and designed to support and further advance the Work Plan.
(Revised: Amendment 06EX.TXT02.1.08, Ordinance 2006-XX, 10/24/2006)

Policy POT 4.5 Extension of Service to New Development

The County shall continue to require new development to fund the cost of extending water lines to serve their development.





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OBJECTIVE POT 5 COORDINATION OF WATER AND LAND USE MANAGEMENT

The County shall seek to coordinate land use management with the management of water source and supply plans through the Comprehensive Plan, local water supply initiatives and the St. Johns River Water Management District Regional Water Supply Plan.

(Added Objective and Policies: Amendment 06EX.TXT02.1.09, Ordinance 2006-XX, 10/24/2006)

Policy POT 5.1 Ten Year Water Supply Facilities Work Plan

The County shall maintain a Water Supply Facilities Work Plan (Work Plan) for at least a ten (10) year planning period addressing water supply facilities necessary to serve existing and future development within the County's water service areas. The Work Plan is a stand-alone support document that is fully incorporated and adopted by reference into the Potable Water Element of the Seminole County Comprehensive Plan. Amendment of the Work Plan is accomplished by amending the Potable Water Element, the Capital Improvements Element and other elements the Comprehensive Plan as necessary to support the Work Plan.

(Added: Amendment 06EX.TXT02.1.10, Ordinance 2006-XX, 10/24/2006)

Policy POT 5.2 Annual Review and Update of Work Plan

The County shall annually review and update as necessary the Water Supply Facilities Work Plan (Work Plan). Any changes to the first five (5) years of the Work Plan shall be included in the annual Capital Improvements Element update to ensure consistency between the Potable Water Element and the Capital Improvements Element.

(Added: Amendment 06EX.TXT02.1.11, Ordinance 2006-XX, 10/24/2006)

Policy POT 5.3 Coordination with the Seminole County Water Master Plan

The County shall use the Work Plan in conjunction with the County Water Master Plan to prioritize and coordinate the expansion and upgrade of facilities used to withdraw, transmit, treat, store and distribute potable water to meet future needs.

(Added: Amendment 06EX.TXT02.1.12, Ordinance 2006-XX, 10/24/2006)

Policy POT 5.4 Coordination of Water and Land Use Planning

The County shall coordinate the Water Supply Facilities Work Plan with the adopted Future Land Use Map and the adopted socio-economic data projections of the Comprehensive Plan.

The County shall coordinate the Water Supply Facilities Work Plan with the adopted Future Land Use Map in two ways:

- Long range water supply planning to meet future service demand shall be based upon the County's projection of socio-economic data done as part of each seven-year Evaluation and Appraisal Report or more frequently if needed. The projections for population, housing, employment, etc., are based on the vacant, buildable acres of each designated future land use category and therefore provide a reasonable estimate of future service demand by location and shall serve as the starting point upon which the ten-year water demand projections shall be based.



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- Prior to issuing a building permit, the County shall continue to require that a concurrency review be conducted and passed with a finding that the calculated water service demand can be met by available and as yet uncommitted water capacity.
(Added: Amendment 06EX.TXT02.1.13, Ordinance 2006-XX, 10/24/2006)

Policy POT 5.5 **Coordination with Regional Water Supply Plan**

The County shall coordinate with the St Johns River Water Management District's most current Regional Water Supply Plan when proposing or amending the ten-year Water Supply Facilities Work Plan (Work Plan). This coordination shall be documented in the text of the Work Plan with each amendment. Where appropriate and feasible, the Work Plan shall include collaborative approaches with other local governments for water supply source use and development, and water resource development.
(Added: Amendment 06EX.TXT02.1.14, Ordinance 2006-XX, 10/24/2006)

Policy POT 5.6 **Coordination with SJRWMD and Local Water Providers**

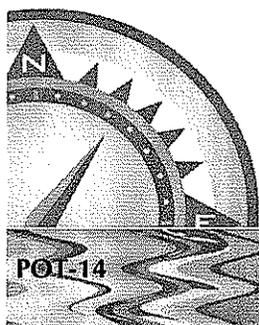
The County shall consider and coordinate with the SJRWMD and other local governments on the development of efficient, cost-effective, and technically feasible water supply sources that will supplement future demands, without causing adverse impacts to water quality, wetlands, and aquatic systems. Consideration and coordination efforts made for each major water project shall be noted in the Work Plan.
(Added: Amendment 06EX.TXT02.1.15, Ordinance 2006-XX, 10/24/2006)

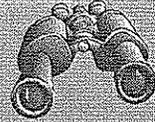
Policy POT 5.7 **Maximize Use of Facilities and Supply Sources**

The County shall seek to maximize the use of existing potable water facilities, when financially and technically feasible, through the implementation of management techniques that can enhance a source of supply, sustain water resources and related natural systems, and/or optimize water supply yield.
(Added: Amendment 06EX.TXT02.1.16, Ordinance 2006-XX, 10/24/2006)

Policy POT 5.8 **Assessment of Work Plan with Evaluation and Appraisal Report (EAR)**

The County shall assess as part of each EAR whether the Work Plan has sought to coordinate with the SJRWMD's Regional Water Supply Plan and shall review and comment on any need to revise the Work Plan.
(Added: Amendment 06EX.TXT02.1.17, Ordinance 2006-XX, 10/24/2006)





POTABLE WATER ELEMENT WATER SUPPLY FACILITIES WORK PLAN – EXECUTIVE SUMMARY

In 2002 and 2004, the Florida Legislature expanded the requirements for municipal Comprehensive Plans in an effort to strengthen coordination of regional water supply planning. A specific requirement of the legislation included completion of Water Supply Facilities Work Plans by counties and cities within "priority water resource caution areas". The deadline to have the Work Plans completed, including all necessary review and approval processes, is December 1, 2006.

The Work Plans must account for future potable water demands over a 10-year period, and must demonstrate that the planned water supply facilities and source(s) of water will be adequate to serve current and projected service-area populations. The Plan must be adopted as part of the Potable Water Element of the community's individual Comprehensive Plan, and the associated Capital Improvements Element must also be amended to include projects identified in the first five years of the Work Plan. The final Plan must be approved by the Department of Community Affairs (DCA) and the St. Johns River Water Management District (SJRWMD).

Seminole County (County) is located within a "priority water resource caution area", and has therefore prepared this Water Supply Work Plan (July 2006) to meet the criteria set forth by the legislation. The Work Plan summarizes the progressive water-supply initiatives that the County is proposing for providing economical and environmentally-sound solutions for water supply and distribution need in the future.

County representatives have communicated with SJRWMD staff, primarily via the County's ongoing negotiations with SJRWMD regarding CUP permit renewal, on many of the critical issues associated with this Plan. The District's RWSP was a main consideration in compiling this Work Plan, and comments from previous draft water supply planning documents were incorporated into this most recent version wherever possible.

Water Supply

In addition to cooperative efforts with the SJRWMD and other utilities to develop water-supply strategies, the County has developed specific plans for provision of future water supply and distribution service to the residents of unincorporated Seminole County. Many of the steps taken focus on a more efficient use of existing groundwater, including expansion of the residential reuse system as described later in this summary. Projects of note in the County's plans for maintaining and improving the supply of potable water include several water treatment facility and source well improvement efforts, as well as new wells at both the Country Club and Markham WTPs.

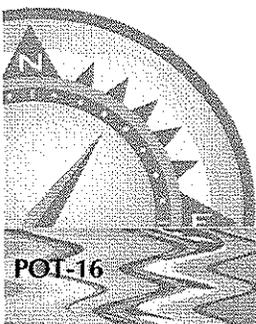
Reuse

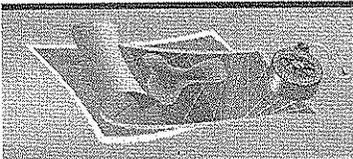
Seminole County is planning a significant expansion of its public access reuse system to residential users via retrofits of existing neighborhoods in the Northwest service area. Reuse of reclaimed water provides benefits in terms of conserving potable water, and recharge of potable quality aquifers in accordance with the goals and objectives of the SJRWMD's RWSP.

There are currently five reuse residential retrofit projects identified in the County's CIP, all located in the Northwest Service Area, in addition to new reclaimed-water storage and repump facilities near the Markham WTP.

Conservation

Although Seminole County has sponsored water conservation education and infrastructure improvements over the years, recent water planning needs and the goals of the SJRWMD's RWSP has motivated the County to expand its Water Conservation





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Program. A key component of this renewed focus includes sponsorship of a full-time Water Conservation Coordinator, hired by the SCESD in May 2001 to plan and manage the program.

The County has also initiated a study as part of the Department's Master Plan Updates to develop new water conservation plans for each service area. It is anticipated that details of the new Conservation Program will be adopted into the County's Comprehensive Plan when the 2007 annual revisions to this Work Plan are completed next year.

Alternative Supply

Seminole County's plan for alternative water, as mentioned previously, includes the design and construction of a reuse augmentation surface-water treatment facility at the County's Yankee Lake site. Augmentation of reclaimed water flows from the County's two wastewater treatment facilities is necessary based on the projected reuse-system expansion, and the expected peak reuse demands. The current plan is for a 10 mgd facility, treating raw water from the St. John's River, with an intake located just downstream of Lake Monroe. The facility will be designed for potential future expansion to 45 mgd.

Water Resource Development

Based on a recent aquifer storage and recovery (ASR) feasibility and testing program, a desktop assessment of ASR feasibility for Seminole County's NWSA was prepared in October 2002. The results of this study indicated that ASR was feasible within the NWSA, and the upper part of the lower Floridan aquifer was identified as the best potential ASR storage zone in this area.

The County's current CIP includes construction of ASR facilities along the east side of Orange Boulevard between State Road 46 and State Road 46A. The conceptual design of the ASR system includes a well located in the northeast corner of the Wilson Elementary School property. Rechlorination of the recovered water would be conducted at the Markham WTP, with the recovered water pumped back to the above ground storage tanks at the WTP.

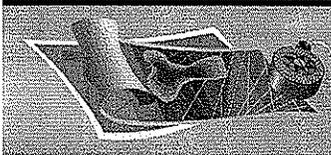
Funding Plan

The Environmental Services Department has a currently-proposed potable water, sewer and reclaimed water CIP Program that includes projects with a total anticipated cost of \$337,717,000. These projects are currently scheduled for fiscal years 2006 through 2011 (October 2005 through September 2011), which covers the first five years of this ten-year plan. Established or planned funding sources for the Program include current system equity, connection fee receipts, State grants for alternative water only, revenue bonds, and possibly the State Revolving Funds (SRF). Presently proposed for the County's Board of County Commissioners is a bond issue providing net funding of \$116,000,000 at the beginning of fiscal year 2007. Total borrowings through the five-year planning horizon are estimated at \$265,000,000.

The County remains committed to the RWSP, and funding for these projects in accordance with that plan will be attained via the user fees, grants, and bond issuances, as needed, when those projects fall within the County's acceptable funding-plan adoption period.

(Added: Amendment 06EX.TXT02.1.18, Ordinance 2006-XX, 10/24/2006)





POTABLE WATER EXHIBITS

The following Exhibits are taken from the enclosed Water Supply Facilities Work Plan.

1. Capacity/Improvements Summary - Table 3-3, "Projections of Service Area Potable Water Demands/Permitted Goundwater Capacity" (Added: Amendment 06EX.TXT02.1.19, Ordinance 2006-XX, 10/24/2006)
2. Water Supply Programs - Appendix B – Table B-1, "Capital Improvements Program" (abbreviated project type schedule version) (Added: Amendment 06EX.TXT02.1.20, Ordinance 2006-XX, 10/24/2006)
3. Water Services Area - Appendix A, Figure A-1 – (Added: Amendment 06EX.TXT02.1.21, Ordinance 2006-XX, 10/24/2006)
4. Potable Water System and WTP Locations - Appendix A, Figure A-2 – (Added: Amendment 06EX.TXT02.1.22, Ordinance 2006-XX, 10/24/2006)
5. Potable Water System and Well Locations - Appendix A, Figure A-3 – (Added: Amendment 06EX.TXT02.1.23, Ordinance 2006-XX, 10/24/2006)
6. Ten-Year Water Supply Program List - Appendix B – Table B-2 - (Added: Amendment 06EX.TXT02.1.24, Ordinance 2006-XX, 10/24/2006)



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CAPACITY/IMPROVEMENTS SUMMARY

Table 3-3. Projections of Service Area Potable Water Demands/Permitted Groundwater Capacity

Water Service Areas (mgd)	2005			
	Design Capacity (ADF) (1)	Permit SJRWMD Alloc (2)	Current Demand (ADF)	Permit Surplus/Deficit
N West (4)	8.376	6.430	5.780	0.650
N East (4)(5)	3.709	3.020	2.110	0.910
S East (6)	13.233	9.154	8.480	0.674
S West	2.560	1.600	1.260	0.340
TOTALS	27.878	20.204	17.630	2.574
Blk Hmk (7)	0.175	NA	0.103	0.072
Water Service Areas (mgd)	2010			
	Design Capacity (ADF) (1)	Permit SJRWMD Alloc (2)	Projected Demand (3)	Permit Surplus/Deficit
N West (4)	8.376	8.230	9.243	-1.013
N East (4)(5)	3.709	3.020	2.600	0.420
S East (6)	13.233	9.154	11.343	-2.189
S West	2.560	1.690	1.526	0.164
TOTALS	27.878	22.094	24.712	-2.618
Blk Hmk (7)	0.175	NA	0.129	0.046
Water Service Areas (mgd)	2015			
	Design Capacity (ADF) (1)	Permit SJRWMD Alloc (2)	Projected Demand (3)	Permit Surplus/Deficit
N West (4)	8.376	8.230	9.065	-0.835
N East (4)(5)	3.709	3.020	2.951	0.069
S East (6)	13.233	9.154	12.029	-2.875
S West	2.560	1.370	1.663	-0.293
TOTALS	27.878	21.774	25.708	-3.934
Blk Hmk (7)	0.175	NA	0.140	0.035
Water Service Areas (mgd)	2020			
	Design Capacity (ADF) (1)	Permit SJRWMD Alloc (2)	Projected Demand (3)	Permit Surplus/Deficit
N West (4)	8.376	8.230	9.565	-1.335
N East (4)(5)	3.709	3.020	3.194	-0.174
S East (6)	13.233	9.154	12.460	-3.306
S West	2.560	1.370	1.806	-0.436
TOTALS	27.878	21.774	27.025	-5.251
Blk Hmk (7)	0.175	NA	0.151	0.024

1 Physical plant permitted average day capacity.

2 Daily average pumping amount based on SJRWMD CUP permit allocation for the individual year and service area.

3 Projected demand is based historical flow information. Amounts have not been reduced due to reflect effects of proposed conservation or reclaimed water usage to offset use of potable for irrigation.

4 The Northwest and Northeast service areas are interconnected.

5 SJRWMD Northeast CUP expired November 30, 2003. Renewal application submitted to District. Previous allocation shown.

6 SJRWMD Southeast CUP expired December 31, 2003. Renewal application submitted to District. Previous allocation shown.

7 The Black Hammock Service Area is served through a wholesale contract with the City of Oviedo.

Note 1: Projected deficits are based on existing facility capacity and current conservation efforts.

Note 2: Six small, built-out private water facilities were absorbed mid-2004. These will be incorporated into the capacity/demand calculations beginning with the 2007 CIE.



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WATER SUPPLY PROGRAMS

CTY	Activity Description	FY06	FY07	FY08	FY09	FY10	FY11	FY12
Water Supply								
Country Club Well No. 3								
00178301	Country Club Well #3 Planning FY07		■					
00178301	Country Club Well #3 Design FY07		■					
00178301	Country Club Well #3 Bid FY07		■					
00178301	Country Club Well #3 Const FY07		■					
Potable Water Quality-Treatment Plant Improve								
00195701	Potable Water Quality Treat.Plant Improve Planni		■					
00195701	Potable Water Quality Treat.Plant Improve Design		■					
00195701	Potable Water Quality Treat.Plant Improve Bid		■					
00195701	Potable Water Quality Treat.Plant Improve Const		■					
Markham Regional WTP Improvement								
00216601	Markham Regional WTP Improvement Planning		■					
00216601	Markham Regional WTP Improvement Design		■					
00216601	Markham Regional WTP Improvement Bid		■					
00216601	Markham Regional WTP Improvement Const		■					
Markham WTP Expansion/Forced Draft Aeration								
00216701	Markham WTP Expan. & Forced Draft Aeration Plan		■					
00216701	Markham WTP Expan. & Forced Draft Aeration Desig		■					
00216701	Markham WTP Expan. & Forced Draft Aeration Bid		■					
00216701	Markham WTP Expan. & Forced Draft Aeration Const		■					
Reuse								
Residential Reclaim Water Main Retrofit-Ph I								
00217301	Resident. Reclaim Water Main Retrofit-Ph I Desig		■					
00217301	Resident. Reclaim Water Main Retrofit-Ph I Bid		■					
00217301	Resident. Reclaim Water Main Retrofit-Ph I Const		■					
Residential Reclaim Water Main Retrofit-Ph II								
00217201	Resident. Water Retrofit-Ph II Design Selection		■					
00217201	Residential Reclaimed Water Retrofit-Ph II Desig		■					
00217201	Residential Reclaimed Water Retrofit-Ph II Bid		■					
00217201	Residential Reclaimed Water Retrofit-Ph II Const		■					
Markham Water Storage & Repump Facility								
00217801	Markham Reclaim Water Storage/Repump Fac. Plan			■				
00217801	Markham Reclaim Water Storage/Repump Fac. Design			■				
00217801	Markham Reclaim Water Storage/Repump Fac. Bid			■				
00217801	Markham Reclaim Water Storage/Repump Fac. Const.			■				



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■ Early Bar
■ Progress Bar
■ Critical Activity

BASA
DCA Report Summary

Sheet 1 of 2

**Seminole County
Environmental Services
Capital Improvement Program**

Start Date
Finish Date
Run Date:

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POTABLE WATER

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POT-21

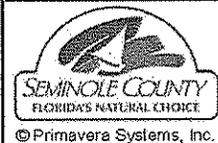
Vision 2020 Comprehensive Plan Seminole County, Florida



WATER SUPPLY PROGRAMS

CTY	Activity Description	FY06	FY07	FY08	FY09	FY10	FY11	FY12
Residential Reclaim Water Main Retrofit-Ph III								
00223001	Residential Reclaimed Water Retrofit-PhIII Plan		■					
00223001	Residential Reclaimed Water Retrofit-PhIII Desig		■					
00223001	Residential Reclaimed Water Retrofit-PhIII Bid			■				
00223001	Residential Reclaim Water Retrofit-PhIII Const.			■				
Residential Reclaim Water Main Retrofit-Ph IV								
00223101	Residential Reclaim Water Retrofit-Ph IV Plan			■				
00223101	Residential Reclaim Water Retrofit-Ph IV Design			■				
00223101	Residential Reclaimed Water Retrofit-Ph IV Bid				■			
00223101	Residential Reclaim Water Retrofit-Ph IV Const.				■			
Residential Reclaim Water Main Retrofit-Ph V								
00223201	Residential Reclaim Water Retrofit-Ph V Plan			■				
00223201	Residential Reclaim Water Retrofit-Ph V Design			■				
00223201	Residential Reclaimed Water Retrofit-Ph V Bid				■			
00223201	Residential Reclaim Water Retrofit-Ph V Const.				■			
Conservation								
Sanitary Sewer and Reclaim Master Plan								
00255201	Utility Master Plan	■						
Alternative Water								
Yankee Lake Surface Water Facility Design								
00164301	Yankee Lake Regional Surface Water Facil. Design	■						
Yankee Lake Surface Water Plant Construction								
00181601	Yankee Lake Surface Water Fac Design Ph.I Permit		■					
00181601	Yankee Lake Surface Water Fac Design Ph.I Constr			■				
Water Resource								
Markham WTP Aquifer Storage & Recovery Sys								
00200401	Markham WTP Aquifer Storage & Recovery Planning	■						
00200401	Markham WTP Aquifer Storage & Recovery Design		■					
00200401	Markham WTP Aquifer Storage & Recovery Bid			■				
00200401	Markham WTP Aquifer Storage & Recovery Const.			■				

Above projects were selected from the Capital Improvement Program as representative projects. Please refer to Water Supply Facilities Plan 2006 for a list and schedule of all Capital Improvement Projects regarding water supply.



■ Early Bar
■ Progress Bar
■ Critical Activity

BAS4
DCA Report Summary

Sheet 2 of 2

Start Date
Finish Date
Run Date

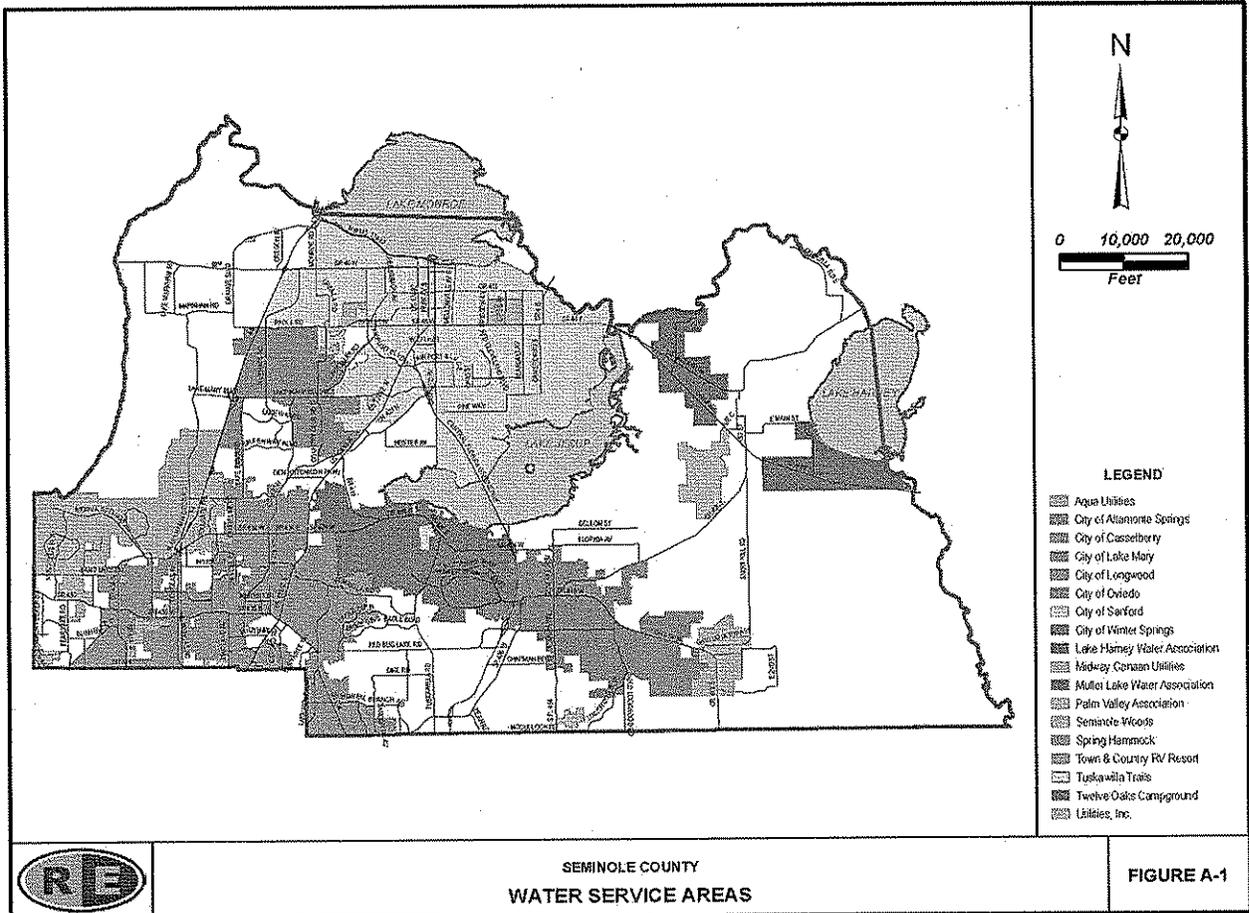
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**Seminole County
Environmental Services
Capital Improvement Program**



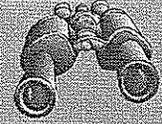
Vision 2020 Comprehensive Plan Seminole County, Florida

WATER SERVICE AREAS

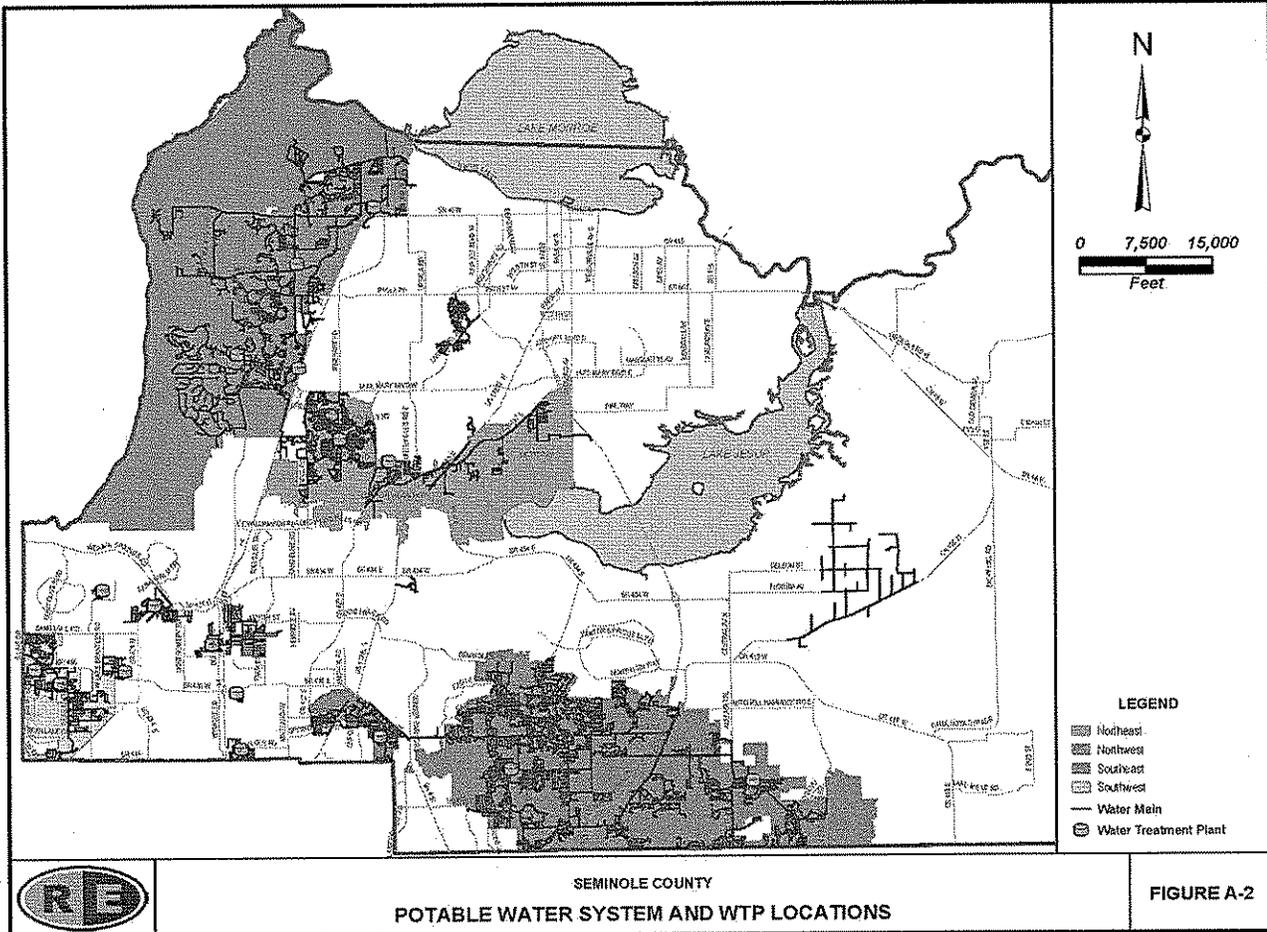


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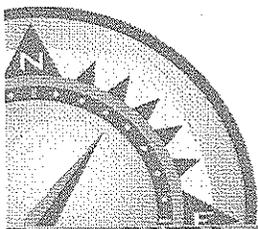


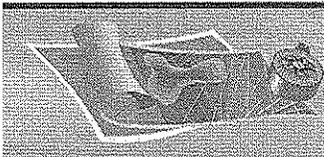


POTABLE WATER SYSTEM AND WTP LOCATIONS



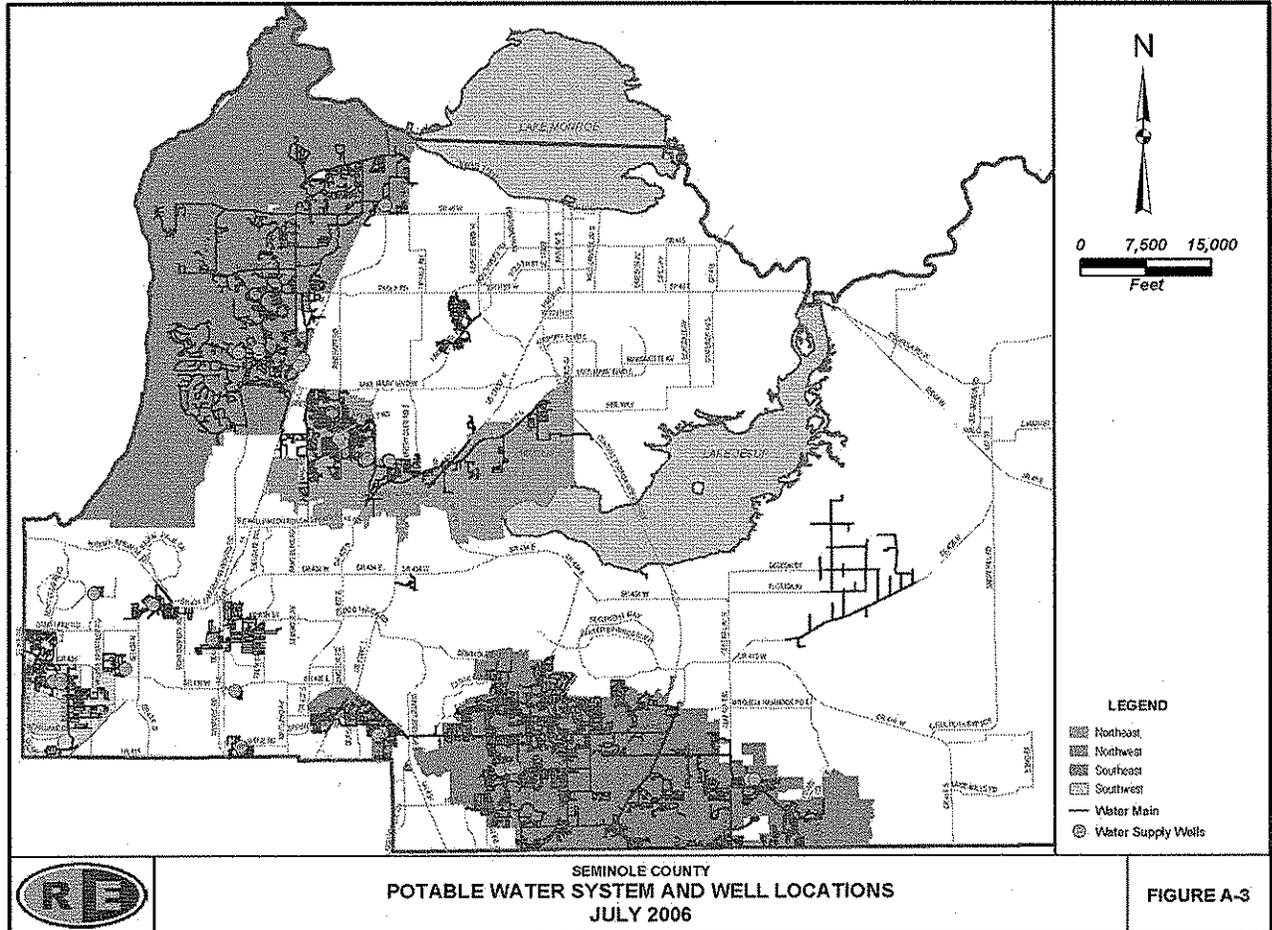
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Vision 2020 Comprehensive Plan Seminole County, Florida

POTABLE WATER SYSTEM AND WELL LOCATIONS





TEN-YEAR WATER SUPPLY PROGRAM PROJECT LIST

Seminole County Environmental Services

CIP No.	Project Title	Description	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Water Supply														
00178301	Country Club Well No. 3	Permit and construct Country Club Water Treatment Plant Well #3.	\$0	\$760,725	\$0	\$693,900	\$0	\$0						\$ 1,454,625
00195701	Potable Water Quality - Treatment Plant Improvements	Develop a water quality master plan, conduct studies, evaluate, design and construct improvements to allow compliance with state and federal regulations regarding disinfection by-products and to improve drinking water quality.	\$1,107,564	\$623,000	\$2,767,500	\$11,578,950	\$12,150,000	\$12,693,298						\$ 40,920,312
00216601	Markham Regional WTP Improvement	Construct two 2,400 gpm wells, 6,000 ft of 16" raw water piping, a 1.5 million gallon ground storage tank with a 4,800 gpm aerator, and two 3,200 gpm high service pumps.	\$0	\$3,561,600	\$0	\$0	\$0	\$0						\$ 3,561,600
00216701	Markham Regional WTP Expansion and Forced Draft Aeration	Design and construct a forced draft aeration and odor control system at selected water treatment plants.	\$2,350,790	\$3,621,600	\$0	\$0	\$0	\$0						\$ 5,972,390
Reuse														
00217301	Residential Reclaimed Water Main Retrofit - Phase I	Reclaim Retrofit in Heathrow Woods, Bristol Park, Chestnut Hill, East Camden and Magnolia Plantation. Estimated 0.82 MGD reclaimed water usage.	\$9,780,311	\$0	\$0	\$0	\$0	\$0						\$ 9,780,311
00217201	Residential Reclaimed Water Main Retrofit - Phase II	Reclaim Retrofit for Alauqua Lakes. Estimated 0.62 MGD reclaimed water usage excluding golf course and common areas.	\$462,700	\$6,284,750	\$0	\$0	\$0	\$0						\$ 6,747,450
00217801	Markham Regional Reclaimed Water Storage & Repump Facility	New storage and repump facility with a 2.0 MG ground storage tank and two 2,200 gpm high service pumps is planned to transfer reclaimed water to the Northwest Service Area during peak conditions, including construct of 1,275 LF of 20" RM in Northwest Ser.	\$0	\$0	\$893,025	\$2,315,250	\$0	\$0						\$ 3,208,275
00223001	Residential Reclaimed Water Main Retrofit - Phase III	Reclaim Retrofit for Alauqua, Lake Markham Preserve Phase I and Carisbrook. Estimated 0.34 MGD reclaimed water usage.	\$0	\$7,597,740	\$0	\$0	\$0	\$0						\$ 7,597,740
00223101	Residential Reclaimed Water Main Retrofit - Phase IV	Design and construct reclaimed water residential retrofits for Stonebridge, Breckenridge Heights, Wembly Park, Wyntree and Lakeside subdivisions. Estimated 0.28 MGD reclaimed water usage.	\$0	\$0	\$20,405,133	\$0	\$0	\$0						\$ 20,405,133
00223201	Residential Reclaimed Water Main Retrofit - Phase V	Design and construct reclaimed water residential retrofits for Cherry Ridge, Burlington Oaks, Kentford Gardens and Heron Ridge subdivisions. Estimated 0.32 MGD reclaimed water usage.	\$0	\$0	\$0	\$5,221,262	\$0	\$0						\$ 5,221,262
Conservation														
00255201	Sanitary Sewer and Reclaimed Water Master Plan	Update of 2003 Sewer and Reclaimed Water Master Plan including development of conservation plans for each service area.	\$126,500	\$912,600	\$0	\$0	\$1,215,000	\$0						\$ 2,254,100
Alternative Water														
00164301	Yankee Lake Regional Surface Water Facility Study	Study of St. Johns River to augment existing upper Floridan groundwater sources.	\$150,000	\$0	\$0	\$0	\$0	\$0						\$ 150,000
00181601	Yankee Lake Regional Surface Water Plant Construction	In response to increasing potable water demands and regulatory tightening of Upper Floridan Aquifer water supply, construct a 10-mgd surface water augmentation facility with certain components sized for 45-mgd for future expansion.	\$0	\$0	\$35,115,000	\$0	\$0	\$0						\$ 35,115,000
Water Resource														
00200401	Markham Regional WTP Aquifer Storage & Recovery System	Preliminary design, final design, and construction of aquifer storage and recovery (ASR) system on or adjacent to Markham Regional Water Treatment Plant at 5651 Orange Boulevard.	\$0	\$206,661	\$0	\$0	\$0	\$0						\$ 206,661

NOTE: The above projects were selected from the Capital Improvement Program as representative projects. Please refer to Water Supply Facilities Plan 2006 for a list and schedule of all Capital Improvement Projects regarding water supply.

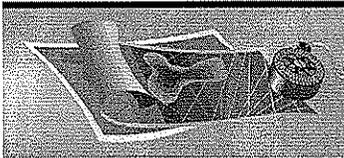


ATTACHMENT 2

Proposed Amendments to the Capital Improvements Element (06F.TXT02.2)

- **Revision to Goals, Objectives and Policies**
- **Revision to Exhibits**

(Note: The amendments have been inserted directly into the appropriate Comprehensive Plan pages in strike and underlined format indicating deletion and addition respectively. Objectives or policies simply being noted as supportive of the Work Plan have their titles underlined.)



Vision 2020 Comprehensive Plan Seminole County, Florida

CAPITAL IMPROVEMENTS ELEMENT GOALS, OBJECTIVES, AND POLICIES

GOAL

Implement a capital planning program that provides and maintains in a timely, efficient, and fiscally prudent manner public facilities and services which protect the public health, safety and welfare; adequately serve existing and new development; are consistent with Seminole County's future land use plan; achieve and maintain adopted facility levels of service; maintain the existing infrastructure; and minimize public costs.

OBJECTIVE CIE 1 ADOPTION AND UPDATE OF CAPITAL IMPROVEMENTS ELEMENT

The Capital Improvements Element shall be used to guide the programming and implementation of public facility improvements to correct existing deficiencies, repair and replace worn out or obsolete facilities and to accommodate previously approved and new growth in an efficient, cost effective, and timely manner.

Policy CIE 1.1 County Responsibility for Maintaining Level of Service

The Capital Improvements Element shall include an annual schedule of the capital improvements for which Seminole County has fiscal responsibility to maintain the level of service standards adopted in the public facility elements of the Comprehensive Plan. (See Exhibits CIE: Facility LOS at rear of element).

Policy CIE 1.2 Annual Review and Update

The Capital Improvements Element shall concentrate on the first five years of capital needs, shall be financially feasible and shall be reviewed and updated annually. (See five year capital schedules of improvements for each facility element in the Exhibits Section at the rear of this element).

Policy CIE 1.3 Florida Department of Transportation Capital Projects

The schedule of capital improvements shall recognize as financially feasible the transportation projects within Seminole County included in the first three years of the adopted five-year FDOT work program.

Policy CIE 1.4 Capital Improvements Element Amendments

A Plan amendment shall be required to eliminate, defer or delay construction of any road or mass transit facility or service which is needed to maintain the adopted level of service standard and which is listed in the five-year schedule of improvements.

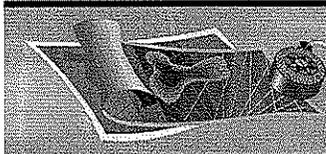
Policy CIE 1.5 Capital Improvements Element Consistency With Other Elements

The schedule of capital improvements shall be based upon the future land use and public facility elements of the Comprehensive Plan and shall be consistent with all other elements of this Plan.

Policy CIE 1.6 Coordination With Annual Budgets

Adoption of annual budgets shall include a specific capital budget, which shall implement adequate funding sources and be consistent with the Capital Improvements Element.





Vision 2020 Comprehensive Plan Seminole County, Florida

- Maintenance or enhancement of services through opportunities to incorporate improved technology and materials; and
- Opportunities for future fiscal efficiencies through such activities as reuse of existing facilities, renewal/rehabilitation to extend useful life, and spreading major periodic renewal/replacement cost burdens over time.

These provisions for renewal/replacement shall be incorporated in the CIE and implemented through annual budget adoptions.

Policy CIE 1.10 Alternative Funding Sources

To ensure optimum strategies for financial feasibility, the County shall review and evaluate available and potential funding sources to ensure a financial strategy exists to adequately fund the five-year Capital Improvements Element. If alternative funding sources are not successfully adopted and implemented on the schedule identified, Seminole County shall either:

- Increase the rates of current revenue sources or implement other available sources such that the schedule of capital improvements is adequately funded in each year; or
- Amend the Future Land Use, Capital Improvements Element and public facility elements including level of service standards and the schedule of capital improvements, as appropriate and necessary, such that internal consistency of the Comprehensive Plan and financial feasibility are maintained.

Policy CIE 1.11 Funding of Public Transportation Services

The Board of County Commissioners shall, at its discretion and in accordance with law, make use of fuel tax revenues and other legal revenue sources for the purpose of funding public transportation capital, operations and maintenance as identified in the Seminole County Comprehensive Plan Capital Improvements Element (CIE). Such revenues may be expended for the public transportation services identified in the CIE including but not limited to capital facilities, operations and maintenance. These services may be provided directly by the County or may be contracted for through public or private service providers. (Added: Amendment 02F.TXT02; Ordinance 2002-55, 12/10/2002)

Policy CIE 1.12 Maintaining Consistency With Water Supply Facilities Work Plan

A The County shall include in its annual update of the County's financially feasible five (5) year capital improvements project listing the first five (5) years of the ten (10) year Water Supply Facilities Work Plan (Work Plan) to ensure consistency between the Potable Water Element and the Capital Improvements Element.

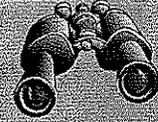
B The Exhibit CIE: Capacity/Improvements Summary within the CIE Exhibit: Facility Program Potable Water/Sanitary Sewer of the CIE Element shall be updated annually to be consistent with the Work Plan's annually updated table of water demand and permitted groundwater capacity.

C The Exhibit CIE: Facility LOS – All Facilities of the CIE Element shall be updated as necessary to be consistent with existing and proposed levels of service policies adopted in the Potable Water Element and Work Plan.

(Added: Amendment 06EX.TXT02.2.01, Ordinance 2006-XX, 10/24/2006)



Vision 2020 Comprehensive Plan Seminole County, Florida



OBJECTIVE CIE 3 LOS AND DEVELOPMENT APPROVALS

By adoption and implementation of the Seminole County Comprehensive Plan, land use decisions shall require maintenance of adopted level of service standards and shall be coordinated with the Capital Improvements Element and public facility elements including the adopted schedule of capital improvements.

Policy CIE 3.1 **Adopted Level of Service Standards and Schedules of Capital Improvements**

Exhibit CIE: Facility LOS - All Facilities shall identify the adopted level of service standards for each public facility. *Exhibits CIE: Facility Program* for individual elements or *Exhibits CIE: Schedule of Improvements* for multiple facility programs shall detail the annually adopted five-year financially feasible capital expenditure program supporting the goals, objectives and policies of the Plan.

Policy CIE 3.2 **Application to New Development**

For the purposes of approving new development subsequent to adoption of this Comprehensive Plan, all adopted public facility level of service standards and schedules of capital improvements, except for Public Safety and Libraries, shall be applied and evaluated in any new development reviews and approvals consistent with policies of the Implementation Element. A final development order shall be issued only if this evaluation finds that the needed public facilities that meet the adopted level of service standards are available or are assured to be available concurrent with the impacts of the development. Preliminary development orders shall only be issued with the condition that no rights to obtain final development orders or development permits, nor any other rights to develop the subject property are granted or implied by the County's approval of the preliminary development order.

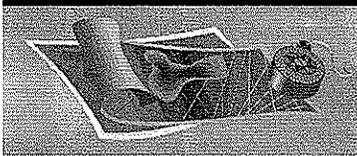
Policy CIE 3.3 **Five-Year LOS and Impact Assessment**

To guide provision of adequate public facilities concurrent with the impacts of development, the schedule of capital improvements for each public facility type shall be accompanied by a summary evaluation of capacity needs and availability for at least the five-year period.

Policy CIE 3.4 **Concurrency Management**

Seminole County shall continue to operate a concurrency management system pursuant to the Implementation Element which, in conjunction with Policy 3.2 and the other policies of this Capital Improvements Element, will ensure that development orders and permits are issued in a manner that will assure that the necessary public facilities and services will be available at adopted level of service standards concurrent with the impacts of that development.





Vision 2020 Comprehensive Plan Seminole County, Florida

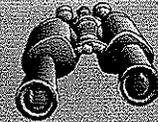
CAPITAL IMPROVEMENTS EXHIBITS

The following exhibits are found in the enclosed Water Supply Facilities Work Plan Support Document.

- Capacity/Improvements Summary - Table 3-3, "Projections of Service Area Potable Water Demands/Permitted Goundwater Capacity". (Revised: Amendment 06EX.TXT02.2.02, Ordinance 2006-XX, 10/24/2006)
- Five-Year Water Supply Program List - Appendix B – Table B-2 - (Added: Amendment 06EX.TXT02.2.03, Ordinance 2006-XX, 10/24/2006)



Vision 2020 Comprehensive Plan Seminole County, Florida



CAPITAL IMPROVEMENTS SUMMARY

Table 3-3. Projections of Service Area Potable Water Demands/Permitted Groundwater Capacity

Water Service Areas (mgd)	2005			
	Design Capacity (ADF) (1)	Permit SJRWMD Alloc (2)	Current Demand (ADF)	Permit Surplus/Deficit
N West (4)	8.376	6.430	5.780	0.650
N East (4)(5)	3.709	3.020	2.110	0.910
S East (6)	13.233	9.154	8.480	0.674
S West	2.560	1.600	1,260	0.340
TOTALS	27.878	20.204	17.630	2.574
Blk Hmk (7)	0.175	NA	0.103	0.072
Water Service Areas (mgd)	2010			
	Design Capacity (ADF) (1)	Permit SJRWMD Alloc (2)	Projected Demand (3)	Permit Surplus/Deficit
N West (4)	8.376	8.230	9.243	-1.013
N East (4)(5)	3.709	3.020	2.600	0.420
S East (6)	13.233	9.154	11.343	-2.189
S West	2.560	1.690	1.526	0.164
TOTALS	27.878	22.094	24.712	-2.618
Blk Hmk (7)	0.175	NA	0.129	0.046
Water Service Areas (mgd)	2015			
	Design Capacity (ADF) (1)	Permit SJRWMD Alloc (2)	Projected Demand (3)	Permit Surplus/Deficit
N West (4)	8.376	8.230	9.065	-0.835
N East (4)(5)	3.709	3.020	2.951	0.069
S East (6)	13.233	9.154	12.029	-2.875
S West	2.560	1.370	1.663	-0.293
TOTALS	27.878	21.774	25.708	-3.934
Blk Hmk (7)	0.175	NA	0.140	0.035
Water Service Areas (mgd)	2020			
	Design Capacity (ADF) (1)	Permit SJRWMD Alloc (2)	Projected Demand (3)	Permit Surplus/Deficit
N West (4)	8.376	8.230	9.565	-1.335
N East (4)(5)	3.709	3.020	3.194	-0.174
S East (6)	13.233	9.154	12.460	-3.306
S West	2.560	1.370	1.806	-0.436
TOTALS	27.878	21.774	27.025	-5.251
Blk Hmk (7)	0.175	NA	0.151	0.024

1 Physical plant permitted average day capacity.

2 Daily average pumping amount based on SJRWMD CUP permit allocation for the individual year and service area.

3 Projected demand is based historical flow information. Amounts have not been reduced due to reflect effects of proposed conservation or reclaimed water usage to offset use of potable for irrigation.

4 The Northwest and Northeast service areas are interconnected.

5 SJRWMD Northeast CUP expired November 30, 2003. Renewal application submitted to District. Previous allocation shown.

6 SJRWMD Southeast CUP expired December 31, 2003. Renewal application submitted to District. Previous allocation shown.

7 The Black Hammock Service Area is served through a wholesale contract with the City of Oviedo.

Note 1: Projected deficits are based on existing facility capacity and current conservation efforts.

Note 2: Six small, built-out private water facilities were absorbed mid-2004. These will be incorporated into the capacity/demand calculations beginning with the 2007 CIE.



FIVE-YEAR WATER SUPPLY PROGRAM PROJECT LIST

Seminole County Environmental Services

CIP No.	Project Title	Description	2005	2006	2007	2008	2009	2010	TOTAL
Water Supply									
00178301	Country Club Well No. 3	Permit and construct Country Club Water Treatment Plant Well #3.	\$0	\$760,725	\$0	\$693,900	\$0	\$0	\$ 1,454,625
00195701	Potable Water Quality - Treatment Plant Improvements	Develop a water quality master plan, conduct studies, evaluate, design and construct improvements to allow compliance with state and federal regulations regarding disinfection by-products and to improve drinking water quality.	\$1,107,564	\$623,000	\$2,767,500	\$11,578,950	\$12,150,000	\$12,693,298	\$ 40,920,312
00216601	Markham Regional WTP Improvement	Construct two 2,400 gpm wells, 6,000 ft of 16" raw water piping, a 1.5 million gallon ground storage tank with a 4,800 gpm aerator, and two 3,200 gpm high service pumps.	\$0	\$3,561,600	\$0	\$0	\$0	\$0	\$ 3,561,600
00216701	Markham Regional WTP Expansion and Forced Draft Aeration	Design and construct a forced draft aeration and odor control system at selected water treatment plants.	\$2,350,790	\$3,621,600	\$0	\$0	\$0	\$0	\$ 5,972,390
Reuse									
00217301	Residential Reclaimed Water Main Retrofit - Phase I	Reclaim Retrofit in Heathrow Woods, Bristol Park, Chestnut Hill, East Camden and Magnolia Plantation. Estimated 0.82 MGD reclaimed water usage.	\$9,780,311	\$0	\$0	\$0	\$0	\$0	\$ 9,780,311
00217201	Residential Reclaimed Water Main Retrofit - Phase II	Reclaim Retrofit for Alaquia Lakes. Estimated 0.62 MGD reclaimed water usage excluding golf course and common areas.	\$462,700	\$6,284,750	\$0	\$0	\$0	\$0	\$ 6,747,450
00217801	Markham Regional Reclaimed Water Storage & Repump Facility	New storage and repump facility with a 2.0 MG ground storage tank and two 2,200 gpm high service pumps is planned to transfer reclaimed water to the Northwest Service Area during peak conditions, including construct of 1,275 LF of 20" RM in Northwest Ser	\$0	\$0	\$893,025	\$2,315,250	\$0	\$0	\$ 3,208,275
00223001	Residential Reclaimed Water Main Retrofit - Phase III	Reclaim Retrofit for Alaquia, Lake Markham Preserve Phase I and Carisbrook. Estimated 0.34 MGD reclaimed water usage.	\$0	\$7,597,740	\$0	\$0	\$0	\$0	\$ 7,597,740
00223101	Residential Reclaimed Water Main Retrofit - Phase IV	Design and construct reclaimed water residential retrofits for Stonebridge, Breckenridge Heights, Wembly Park, Wyntree and Lakeside subdivisions. Estimated 0.28 MGD reclaimed water usage.	\$0	\$0	\$20,405,133	\$0	\$0	\$0	\$ 20,405,133
00223201	Residential Reclaimed Water Main Retrofit - Phase V	Design and construct reclaimed water residential retrofits for Cherry Ridge, Burlington Oaks, Kentford Gardens and Heron Ridge subdivisions. Estimated 0.32 MGD reclaimed water usage.	\$0	\$0	\$0	\$5,221,262	\$0	\$0	\$ 5,221,262
Conservation									
00255201	Sanitary Sewer and Reclaimed Water Master Plan	Update of 2003 Sewer and Reclaimed Water Master Plan including development of conservation plans for each service area	\$126,500	\$912,600	\$0	\$0	\$1,215,000	\$0	\$ 2,254,100
Alternative Water									
00164301	Yankee Lake Regional Surface Water Facility Study	Study of St. Johns River to augment existing upper Floridan groundwater sources.	\$150,000	\$0	\$0	\$0	\$0	\$0	\$ 150,000
00181601	Yankee Lake Regional Surface Water Plant Construction	In response to increasing potable water demands and regulatory tightening of Upper Floridan Aquifer water supply, construct a 10-mgd surface water augmentation facility with certain components sized for 45-mgd for future expansion	\$0	\$0	\$35,115,000	\$0	\$0	\$0	\$ 35,115,000
Water Resource									
00200401	Markham Regional WTP Aquifer Storage & Recovery System	Preliminary design, final design, and construction of aquifer storage and recovery (ASR) system on or adjacent to Markham Regional Water Treatment Plant at 5651 Orange Boulevard.	\$0	\$206,661	\$0	\$0	\$0	\$0	\$ 206,661

NOTE: The above projects were selected from the Capital Improvement Program as representative projects. Please refer to Water Supply Facilities Plan 2006 for a list and schedule of all Capital Improvement Projects regarding water supply.



ATTACHMENT 3

Proposed Amendments to the Conservation Element (06F.TXT02.3)

- **Revision to Issues and Concerns**
- **Revision to Goals, Objectives and Policies**

(Note: The amendments have been inserted directly into the appropriate Comprehensive Plan pages in strike and underlined format indicating deletion and addition respectively. Objectives or policies simply being noted as supportive of the Work Plan have their titles underlined.)

Vision 2020 Comprehensive Plan Seminole County, Florida



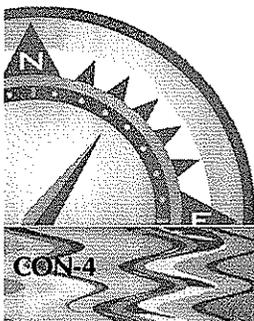
In 1986 Seminole County undertook a Ground Water Supply Study to assess the availability and quality of potable water supplies. The study includes a Countywide (including portions of Orange County) model of the Floridan Aquifer and evaluated; existing and future water demands, critical water supply areas; salt-water intrusion and future wellfield locations. The groundwater study final report was issued in August 1991. This report estimated that the County is currently overdrafting more potable water than is being recharge. The study reports that the County will not be able to meet projected water demands without substantial conservation programs. A task force of County, municipal and private water supply agencies was created to assess study results and develop recommended water conservation programs, and recommend further study needs. Upon completion of the Ground Water model a study will be conducted to identify wellfield protection zones surrounding public well fields, which are depicted in *Exhibit FLU: Existing Water Supply Wells*. A wellfield protection ordinance has been adopted to regulate and develop performance standards for uses within protection zones, which may impact groundwater quality. Since that time, the St. Johns River Water Management District has completed a lengthy study process of the water supply issues of the entire St. Johns River basin, of which Seminole County is a part. Seminole County has been designated as priority water caution area as a result of this study process, known as Water 2020. This study indicated that the Floridan Aquifer, our primary source of groundwater is scheduled to significantly decrease in volume during the next planning horizon and it identified alternatives for water supply to offset these decreases, most notably, surface water. There are multiple issues related to establishment of a surface water supply system, including siting of facilities, costs, and minimum flows and levels, to name a few. Seminole County recently (2000) partnered with the St. Johns River Water Management District to initiate a feasibility study of surface water opportunities within the middle basin and is currently providing staff representatives on several key advisory groups relative to the entire water supply planning process. Seminole County should maintain an active role in this process and play a major role as a facilitator of interests with the various stakeholders.

Issue CON 3 (continued) 2006 Update on Groundwater Water Supply

For the last 15 years, SJRWMD's water supply planning and assessment investigations have documented that the rate of withdrawal of groundwater in certain areas of SJRWMD is approaching the maximum rate that can be sustained without causing unacceptable adverse impacts to the water resources and related natural systems. Water supply planning results to date show that at some locations, withdrawal rates will likely approach or reach sustainable limits in the foreseeable future, well within the current 20-year planning horizon.

The 2005 District Water Supply Plan (DWSP 2005) [also known as the Regional Water Supply Plan, (RWSP)] addresses current and future water use and traditional and alternative water sources and water conservation required to meet 2025 water supply needs while sustaining water quality and protecting wetland and aquatic systems. DWSP 2005 is designed to meet the requirements of the water supply planning provisions of Section 373, Florida Statutes (F.S.), and is based on a planning horizon extending through 2025. (The above text for this section was excerpted from: Technical Publication SJ2006-2, District Water Supply Plan, 2005)

The County is currently in the process of creating a Water Supply Facilities Work Plan (Work Plan) which will be consistent with and coordinated with the DWSP 2005 based





Vision 2020 Comprehensive Plan Seminole County, Florida

on the County's future service needs. The Work Plan can be found in the Potable Water Element of the Comprehensive Plan.

(Revised: Amendment 06EX.TXT02.3.01, Ordinance 2006-XX, 10/24/2006)

Issue CON 4

Air quality

Air quality is an issue requiring increased attention as Seminole County continues to grow. It may become necessary to evaluate the feasibility of establishing an air quality-monitoring program and to review and amend existing regulations.

Air quality in Seminole County is currently monitored by either the Florida Department of Environmental Protection or required as part of major development (DRI) approval. The County itself does not have an air quality monitoring program as Seminole County has no major point source generators and auto traffic historically has not been congested enough to warrant monitoring. However, anticipated future traffic increases may require monitoring.





CONSERVATION ELEMENT GOALS, OBJECTIVES AND POLICIES

GOAL

Preserve, properly manage and, where possible, enhance the quantity, quality and function of Seminole County's natural resources for existing and future generations; to include, but not be limited to the following natural resources: air, surface waters, groundwater supplies, soils/minerals, wetlands, native habitat and wildlife, floodplain, endangered, threatened and species of special concern, open spaces, aquifer recharge areas, and historic and archaeological resources.

OBJECTIVE CON 1 GROUNDWATER PROTECTION - (ENTIRE OBJECTIVE IS NOTED AS APPLICABLE)

By 2005, build upon existing studies to establish a program to protect both the quantity and quality of groundwater resources and recharge areas.

Policy CON 1.1 Groundwater Model/Assessment

The County shall work with the St. Johns River Water Management District, USGS, Department of Environmental Protection, and interested parties to evaluate its long range water conservation plan as part of the Water 2020 process, including participation in working groups and advisory groups on supply planning, minimum flows and levels, and other aspects of the process, including facilitation of input from stakeholder groups.

Policy CON 1.2 Recharge Area Protection/Conservation Measures

The County shall evaluate its groundwater conservation measures and policies for regulation of water usage, reduction of land use densities in critical areas, water use restrictions and irrigation alternatives as part of each Comprehensive Plan Evaluation and Appraisal Report (EAR).

Policy CON 1.3 Recharge Area Protection

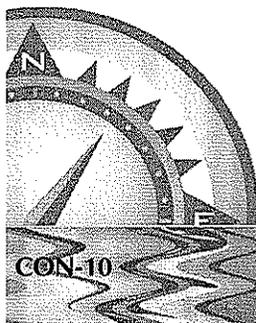
The County shall evaluate its aquifer recharge overlay zoning classification which sets alternative design criteria and standards to protect the functions of most effective aquifer recharge areas as part of each Comprehensive Plan Evaluation and Appraisal Report (EAR).

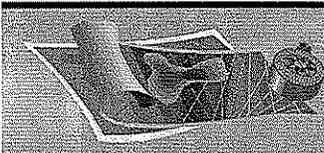
Policy CON 1.4 Recharge Area Reuse

The County shall continue to evaluate the use of septic systems and effluent reuse systems within most effective recharge areas and determine any long term negative impacts on groundwater quality and, if appropriate, adopt and develop additional regulations governing their use.

Policy CON 1.5 Wellfield Protection

The County shall continue to monitor Federal and State regulations to support establishment of wellfield zones of protection beyond those already established and shall consider enacting into the land development code, additional protection and programs as warranted by changes in Federal and State policy.



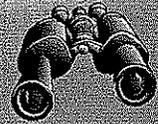


Vision 2020 Comprehensive Plan Seminole County, Florida

- Policy CON 1.6 Intergovernmental Wellfield Protection**
The County shall pursue agreements with municipalities and private water utilities for development and implementation of the Wellfield Protection Program.
- Policy CON 1.7 Underground Tank Program**
The County shall continue to implement and administer an underground storage tank program coordinated with and consistent with requirements of the Department of Environmental Regulation and other appropriate agencies to ensure groundwater resources are protected.
- Policy CON 1.8 Underground Tank Regulations**
The County shall, by 2005, review existing regulations and, if appropriate, develop County standards governing the refurbishment and replacement of underground tanks.
- Policy CON 1.9 Wellcapping Program**
The County shall continue to coordinate with the Soil Conservation Service and the St. Johns River Water Management District with regard to the capping of County owned free flowing wells and the funding of a joint program for capping of private wells.
- Policy CON 1.10 Geneva Lens (Bubble) Protection**
The County shall continue to assess the water supply limitations of the Geneva lens (bubble) and establish appropriate land use densities and measures to protect its critical recharge functions. The Geneva lens, depicted in *Exhibit FLU: Resource Protection Areas*, should be assessed in conjunction with the St. Johns River Water Management District study of the Geneva Lens.
- Policy CON 1.11 Effluent Reuse**
The County shall evaluate its expanded effluent reuse program as part of each Comprehensive Plan Evaluation and Appraisal Report (EAR). The program shall, at a minimum, evaluate the following:
- A Implementing expanded effluent takeback systems for County operated wastewater facilities in an economically and environmentally sound manner;
 - B Requiring new development to install effluent takeback lines at the time of development where reuse programs are programmed or exist. This includes the identification of service areas where reuse may be applied and development of a phased implementation program;
 - C Implementing existing sewer agreement takeback provisions;
 - D Mechanisms to transport and dispose of reuse water within the most effective recharge areas;
 - E Incentives for encouraging reuse systems;
 - F Reuse programs may be appropriate; and



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Policy CON 1.12 Xeriscape Regulation

The County shall continue to enforce and evaluate its Xeriscape regulations which, at a minimum, sets standards for the use of native and drought tolerant species, removal of exotics, vegetative clearing and efficient irrigation to maximize conservation of water resources. The evaluation process shall consider the existing arbor and landscaping requirements of the Land Development Code requirements with special attention given to the DEP's prohibited plant list and the Florida Exotic Pest Plant Council's Category 1 and 2 lists.

Policy CON 1.13 Safe Withdrawal Rates

The County shall coordinate with the St. Johns River Water Management District and surrounding jurisdictions to determine safe withdrawal rates and appropriate land use intensities to ensure an adequate water supply for existing and future needs and shall seek cooperation with the District on continued development of a water budget model.

Policy CON 1.14 Private Well Withdrawal

The County shall cooperate with the St. Johns River Water Management District to monitor the impacts of private well withdrawals on the Floridan Aquifer.

Policy CON 1.15 Minimize Water Withdrawal/Transport

The County shall minimize the withdrawal or transport of water to future developments which would adversely impact existing well production.

Policy CON 1.16 Emergency Water Conservation

The County shall continue to utilize, as necessary, the Emergency Water Conservation ordinance to enable the County to limit water usage by methods that may include, but are not limited to, citations with fines in order to enforce restrictions and surcharges for excessive consumption and use methods as are otherwise authorized by law. The ordinance shall at a minimum be consistent with the St. Johns River Water Management District's Emergency Water Conservation requirements.

Policy CON 1.17 Ten-Year Water Supply Facilities Work Plan Water Supply Plan

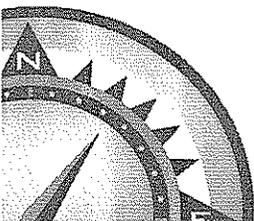
A The County shall assess projected water needs and sources for at least a ten (10) year planning period by creating and maintaining a Water Supply Facilities Work Plan (Work Plan) within the Potable Water Element. Capital projects planned during the first five (5) years of the Work Plan shall also be shown in the Capital Improvements Element.

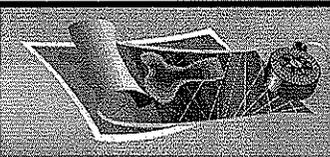
B The Work Plan shall address each major type of water supply project- groundwater use optimization, conservation, reuse, and development of alternative water supply sources and water resources. For each project type, a detailed description of the project schedule, major activities and capital projects shall be provided and annually updated.

(Added: Amendment 06EX.TXT02.3.02, Ordinance 2006-XX, 10/24/2006)

Policy CON 1.18 Coordination with Regional Water Supply Plan

The County shall coordinate with the St Johns River Water Management District's most current Regional Water Supply Plan when proposing or amending the ten-year Water Supply Facilities Work Plan (Work Plan). This coordination shall be documented in the text of the Work Plan with each amendment. Where appropriate and feasible, the





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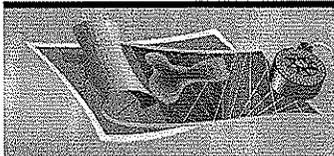
Work Plan shall include collaborative approaches with other local governments for water supply source use and development, and water resource development.
(Added: Amendment 06EX.TXT02.3.03, Ordinance 2006-XX, 10/24/2006)



ATTACHMENT 4
Notations in the Future Land Use Element

- **Goals, Objectives and Policies**

(Note: The applicable policy numbers and titles have been underlined.)



Vision 2020 Comprehensive Plan Seminole County, Florida

OBJECTIVE FLU 6 PUBLIC FACILITIES AND SERVICES

The County shall require that all development be consistent with the approved Capital Improvements Element or facility and service plans in order to discourage urban sprawl, meet adopted level of service standards and thereby minimize attendant public costs through the implementation of the following policies:

Policy FLU 6.1 Development Orders, Permits and Agreements

The County shall ensure that all development orders, permits and agreements are consistent with the adopted level of service standards and provisions of the Capital Improvements Element and the appropriate facility element as well as all other provisions of this Plan.

Policy FLU 6.2 Concurrency Requirements

The County shall ensure that all development orders, permits and agreements are subject to the adopted Concurrency Management System standards and provisions to ensure that facilities and services needed to serve the development are available at the adopted level of service consistent with the Implementation Element of this Plan.

Policy FLU 6.3 Infrastructure and Phasing Requirements

The County shall require that all development provide services and facilities or phase the development as a condition of approval if development needs precede adopted service and facility plans and Capital Improvements Program and adopted levels of service can be maintained.

Policy FLU 6.4 Priority for Water and Sewer Service

The County shall evaluate the impact on delivering adequate service to residents within the established service area prior to the expansion of a potable water or sewer service area outside the adopted service area boundaries. The County will not expand a service area if the adopted level of service cannot be maintained.

Policy FLU 6.5 Private Investment Above Land Development Code Requirements

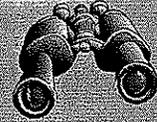
The County shall require private investment in infrastructure improvements above and beyond Land Development Code requirements (e.g., feeder roads, aerial fire apparatus, right-of-way, signalization, access improvements, transit facilities, stormwater, etc.) where improvements are needed to accommodate the development and to minimize attendant public costs associated with growth.

Policy FLU 6.6 Concurrency Management

The above policies shall be implemented consistent with the policies of the Implementation Element.



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OBJECTIVE FLU 7 INTERGOVERNMENTAL COORDINATION

The County shall continue to coordinate with the cities and other agencies to facilitate consistent facility and land use plans, provide cost-effective services, maintain compatible land uses, and ensure coordination of resource planning and management plans. The County shall coordinate with responsible local, regional and State authorities and private utility companies, as appropriate, in the establishment of level of service standards for public facilities. Upon adoption of the County and adjacent governments' comprehensive plans, the County shall initiate further coordination efforts, if necessary, to ensure consistency with adopted level of service standards

Policy FLU 7.1 Joint Planning Agreements (JPAs) with the City of Winter Springs

The County shall pursue the adoption of a joint planning agreement with the City of Winter Springs to address, at a minimum, future annexations, provision of services and facilities and land use compatibility in the East Rural Area of Seminole County. The JPA shall also include agreement on future densities and intensities of properties that may be annexed and a procedure for resolution of any future conflicts and/or disputes. It shall also include criteria for when and how the urban boundary can be amended and standards for cut through traffic.

Policy FLU 7.2 Joint Planning Agreements

The County shall pursue Joint Planning Agreements with each of the cities in Seminole County to address, at a minimum, future annexations, provision of services and facilities and land use compatibility.

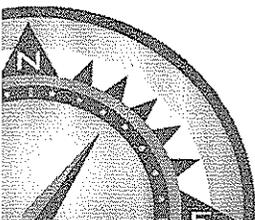
Policy FLU 7.3 Future Service Areas

The County shall provide the most cost-effective services to future development by establishing future service area boundaries and through the use of interlocal agreements for water, sewer, drainage, fire protection, and other public facilities.

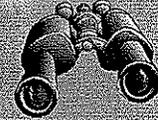
Policy FLU 7.4 School Sites

The County shall continue coordination and interaction with the School District with regard to locating future school sites, in the acquisition of sites during the development approval process and as to all related matters. The County shall encourage the location of public schools proximate to urban residential areas concurrent with development and the provision of concurrency public facilities, and concurrency public facilities are budgeted for in the appropriate Capital Improvements Plan. At a minimum, public school sites shall be located based on the following criteria:

- A Public school sites shall be located within the County's Urban Growth Boundary or be compatible with compact urban growth patterns; provided, however, that elementary schools, by nature of their service characteristics, are compatible in rural areas but only when located proximate to existing established residential communities;
- B Public school sites shall be served by adequate concurrency public facilities;

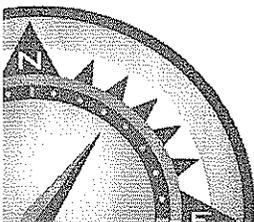


Vision 2020 Comprehensive Plan Seminole County, Florida



Policy FLU 7.9 **Coordination of Levels of Service**

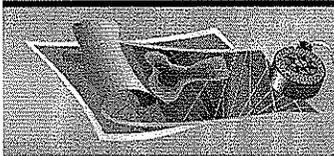
The County will, to the best of its ability, ensure that its levels of service for public facilities are compatible with adopted levels of service of neighboring jurisdictions in and adjacent to Seminole County and appropriate state and regional authorities through active intergovernmental coordination.



ATTACHMENT 5
Notations in the Implementation Element

- **Goals, Objectives and Policies**

(Note: The applicable policy numbers and titles have been underlined.)



Vision 2020 Comprehensive Plan Seminole County, Florida

- 2• No rights to obtain final development orders under which development activity impacting public facilities may ensue, or to obtain development permits, nor any other rights to develop the subject property shall be deemed to have been granted or implied by the County's approval of the development order without a determination having previously been made that the capacity of public facilities will be available in accordance with law.

Policy IMP 2.5 Development Orders: Capacity Determinations and Availability

The availability of public facility capacity to support development orders or permits issued pursuant to Policies IMP 2.3 and IMP 2.4A. shall be concurrent with the impacts of such development and shall be determined in accordance with the following:

A Potable Water, Sewer, Solid Waste, and Drainage:

- 1• The necessary facilities and services are in place at the time a development permit is issued; or
- 2• Development orders and permits are issued subject to the condition that the necessary facilities and services will be in place when the impacts of the development occur; or
- 3• The necessary facilities are under construction at the time a development order or permit is issued; or
- 4• The necessary facilities are guaranteed in an enforceable development agreement meeting the requirements of the Concurrency Management System Rules of the Department of Community Affairs (Rule 9J-5). The agreement must guarantee that the necessary facilities will be in place when the impacts of the development occur.

B Parks and Recreation:

- 1• Any of the provisions of section A.1.-A.4. listed above for potable water, sewer, solid waste and drainage; or
- 2• The necessary facilities are the subject of a binding executed contract which provides for the commencement of the actual construction of the required facilities within one (1) year of the issuance of the development order or permit; or
- 3• The necessary facilities are guaranteed in an enforceable development agreement which requires the commencement of the actual construction of the facilities within one (1) year of the issuance of the applicable development order or permit.

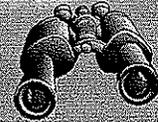


ATTACHMENT 6

Proposed Amendments to the Intergovernmental Element (06F.TXT02.4)

- **Revision to Goals, Objectives and Policies**

(Note: The amendments have been inserted directly into the appropriate Comprehensive Plan pages in strike and underlined format indicating deletion and addition respectively. Objectives or policies simply being noted as supportive of the Work Plan have their titles underlined.)



Housing Element

Policy HSG 9.1 Housing Program Implementation

The County's Community Development Office shall continue to be the lead agency to formulate a coordinated affordable housing development and assistance program and administer the County's various housing and community development/redevelopment activities.

Design Element

Policy DES 2.4 Coordination on Scenic, Canopy and Gateway Roads

The County shall continue, when appropriate, to pursue interlocal agreements and joint projects with municipalities and private agencies for the designation, implementation and funding of scenic and gateway roadway programs and identify and determine the feasibility of alternative revenue sources for the implementation of scenic corridor programs. A coordinated approach to the design of all roads in development corridors will be explored to seek establishment of a unified base-line for improvements on all highways in the development corridors and mixed-use centers in urban areas. As a condition of future joint planning agreements and other formal agreements, the County shall pursue provisions regarding the maintenance of County roadway overlay standards and other appropriate design standards.

Recreation and Open Space Element

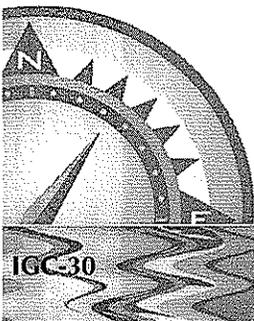
Policy REC 8.3 Joint Projects

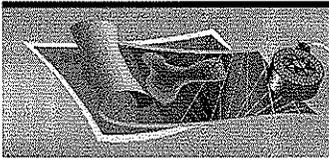
The County shall continue to pursue interlocal agreements and joint projects with municipalities and private agencies for the designation, implementation and funding of scenic roadway programs where appropriate.

Policy IGC 1.9 Joint Processes for Collaborative Planning

By December 31, 2002, the County shall enter into an or revise/strengthen, as needed, an interlocal or other formal agreement with each of the municipalities within Seminole County, the School Board Seminole County and any unit of local government service providers that will:

- A Establish joint processes for collaborative planning and decision making on population projections and public school siting, the location and extension of public facilities subject to concurrency, and siting facilities with countywide significance, including locally unwanted land uses whose nature and identity are established in the agreement.
- B Clearly articulate generally accepted principles and guidelines for coordination of the County's Comprehensive Plan with the plans of the School Board and other units of local government providing services but not having regulatory authority over the use of land, with adjacent municipalities, adjacent counties, the East Central Florida Regional Planning Council, and with the State Comprehensive Plan, as the case may require and as such adopted plans or plans in preparation may exist.





Vision 2020 Comprehensive Plan Seminole County, Florida

OBJECTIVE IGC 3 COORDINATION OF PLAN WITH REGIONAL, STATE AND FEDERAL AGENCIES

Seminole County shall coordinate its Comprehensive Plan with the plans and programs of regional, State and Federal agencies in order to more effectively and efficiently address cross jurisdictional issues through implementation of the following policies:

Policy IGC 3.1 Compliance of State Development with Local Regulations

The County shall continue to review all State and other government development activities for consistency with the Plan and land development regulations. Such development will be considered subject to local regulation unless found to be statutorily exempt, in which case the County shall rely on other coordination mechanisms, including, but not limited to, informal negotiation, to ensure the compatibility of the development with County land development regulations.

Policy IGC 3.2 Division of Historical Resources

The County will continue to coordinate with the Department of State, Division of Historical Resources on Developments of Regional Impacts and CDBG site reviews, maintenance of the Florida Master Site File (FMSF), and matching grants for identification, evaluation and planning for the management of historical resources within Seminole County.

Policy IGC 3.3 Plan Coordination

Seminole County shall coordinate its comprehensive planning activities with the plans and programs of regional, State and Federal agencies by, at minimum, continuing to coordinate with the following agencies: East Central Florida Regional Planning Council; St. Johns River Water Management District; Metropolitan Planning Organization (METROPLAN ORLANDO); Central Florida Regional Transportation Authority (LYNX), the Florida Departments of Environmental Protection, Transportation, and Community Affairs; the Florida Public Service Commission, the Seminole County Expressway Authority, the Florida Highway Patrol; and the Federal Agencies of Housing and Urban Development, Federal Transit Administration, Federal Environmental Protection Agency, Federal Emergency Management Agency and the Army Corps of Engineers. The County shall also seek legislative action by the Florida Legislature when the needs of the County so require. The County shall continue to work on issues with the Florida Association of Counties and shall consider working with the Florida League of Cities in so much as the County is now a charter County.

In particular, the County shall coordinate with the St Johns River Water Management District's most current Regional Water Supply Plan when proposing or amending the ten-year Water Supply Facilities Work Plan (Work Plan). This coordination shall be documented in the text of the Work Plan with each amendment. Where appropriate and feasible, the Work Plan shall include collaborative approaches with other local governments for water supply source use and development, and water resource development.

(Revised: Amendment 06EX.TXT02.4.01, Ordinance 2006-XX, 10/24/2006)

Policy IGC 3.4 Coordination During Major Regional Transportation Construction Projects

The County will coordinate with the Florida Department of Transportation, the Central Florida Regional Transportation Authority (LYNX), and other jurisdictions and agencies to prepare in advance for the maintenance of traffic during construction of major regional transportation projects.



ATTACHMENT 7

Legislative Requirements

The 2002 and 2005 Legislatures expanded the local government comprehensive plan (Plan) requirements to strengthen coordination of water supply planning and local land use planning. One of the most significant new requirements is a 10-year Water Supply Facilities Work Plan.

The work plan must project the local government's needs for at least a 10-year period, identify and prioritize the water supply facilities and source(s) of water that will be needed to meet those needs, and include in the local government's Five-Year Schedule of Capital Improvements the capital improvements identified as needed for the first five years. Each listed capital improvement included in the Five-Year Schedule must identify a financially feasible revenue source, not one that is speculative or contingent upon voter approval.

Listed below is a summary of the Plan amendment and Evaluation and Appraisal Report (EAR) requirements. Each summary describes the reason for the proposed amendments to the Plan.

1. Coordinate all aspects of their comprehensive plan with the appropriate water management district's regional water supply plan (see s.163.3177(4)(a), F.S.).
2. Revise the Potable Water sub-element considering the appropriate water management district's regional water supply plan (s.163.3177(6)(c), F.S.). The element must incorporate the alternative water supply project or projects selected by the local government from those identified in the regional water supply plan pursuant to s. 373.0361(2)(a) or proposed by the local government under s. 373.0361(7)(b).
3. Revise the Potable Water sub-element to include a Water Supply Facilities Work Plan for at least a 10-year planning period and must identify such alternative water supply projects and traditional water supply projects and conservation and reuse necessary to meet the water needs identified in s. 373.0361(2)(a) within the local government's jurisdiction. (see s.163.3177(6)(c), F.S.).
4. Revise the Conservation Element to ensure that projected water needs and sources are for at least a 10-year planning period and that full consideration is given to the appropriate regional water supply plan or, in the absence of an approved regional water supply plan, the district water management plan (s.163.3177(6)(d), F.S.).
5. Revise the Intergovernmental Coordination Element to ensure coordination of the comprehensive plan with the applicable regional water supply plan (s.163.3177(6)(h)1., F.S.).
6. Consider, during preparation of the Evaluation and Appraisal Report, the appropriate regional water supply plan and the need to revise the Potable Water Sub-element to include the Water Supply Facilities Work Plan (s.163.3191(2)(l), F.S.).

ATTACHMENT 8
Seminole County
ECONOMIC IMPACT STATEMENT

Date:	06/22/2006	Dept/Div:	P&D/Planning Division
Contact:	Dick Boyer	Phone Ext:	407-665-7382
Action:	Adopt an ordinance amending the text of the Comprehensive Plan		
Topic:	Water Supply Facilities Work Plan		

Describe Project/Proposal

The purpose of this amendment is to comply with Year 2002 legislation to amend the local comprehensive plans to include a ten-year water supply plan as part of the Potable Water Element and make other amendments as required/needed. The goal is to ensure that long term planning for needed water supplies and facilities matches current planning activities and development approvals.

Describe the Direct Economic Impact of the Project/Proposal upon the Operation of the County

The overall expense of providing water to users can be expected to increase since historically normal expansion of the use of groundwater is being restricted to protect this resource. Additionally, other measures to both reduce use and institute the development and use of alternative water supplies are being required.. These are not, however, optional measures. They are legislative requirements. These amendments extend the county's normal five year planning period for water facilities to a ten year period and are done to comply with legislative requirements for expanded water planning.

Describe the Direct Economic Impact of the Project/Proposal upon the Property Owners/Tax Payers/Citizens who are Expected to be Affected

The overall cost to water to users can be expected to increase for the same reasons listed in the previous paragraph.

Identify Any Potential Indirect Economic Impacts, Positive or Negative, Which Might Occur as a Result of the Adoption of the Ordinance

The extended planning horizon and potential for coordination with local and regional water suppliers and users is expected to have a neutral-to-positive economic impact.

Citation

None.