

BCC Mtg. Date: February 23, 2021

EFFECTIVE DATE: April 30, 2021

ORDINANCE NO. 2021-10

AN ORDINANCE PERTAINING TO COMPREHENSIVE PLANNING IN ORANGE COUNTY, FLORIDA; AMENDING THE ORANGE COUNTY COMPREHENSIVE PLAN, COMMONLY KNOWN AS THE “2010-2030 COMPREHENSIVE PLAN,” AS AMENDED, BY ADOPTING AN AMENDMENT PURSUANT TO SECTION 163.3184(3), FLORIDA STATUTES, FOR THE 2020 CALENDAR YEAR (SECOND CYCLE); AND PROVIDING AN EFFECTIVE DATE.

BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF ORANGE COUNTY:

Section 1. Legislative Findings, Purpose, and Intent.

a. Part II of Chapter 163, Florida Statutes, sets forth procedures and requirements for a local government in the State of Florida to adopt a comprehensive plan and amendments to a comprehensive plan;

b. Orange County has complied with the applicable procedures and requirements of Part II of Chapter 163, Florida Statutes, for amending Orange County’s 2010-2030 Comprehensive Plan;

c. On February 23, 2021, the Board of County Commissioners held a public hearing on the adoption of the proposed amendment to the Comprehensive Plan, as described in this ordinance, and decided to adopt it.

Section 2. Authority. This ordinance is adopted in compliance with and pursuant to Part II of Chapter 163, Florida Statutes.

Section 3. Amendments to Text of the Potable Water, Wastewater, and Reclaimed Water, Aquifer Recharge, Stormwater Management, and Solid Waste Elements. The

Comprehensive Plan is hereby amended by amending the text of the Potable Water, Wastewater, and Reclaimed Water, Aquifer Recharge, Stormwater Management, and Solid Waste Elements to read as follows, with underlines showing new numbers and words, and strike-throughs indicating repealed numbers and words. (Words, numbers, and letters within brackets identify the amendment number and editorial notes, and shall not be codified.)

* * *

[Amendment 2020-2-B-CP-4:]

**Potable Water, Wastewater and Reclaimed Water Element
Goals, Objectives and Policies**

POTABLE WATER

~~GOAL PW1 It is Orange County's goal to provide an efficient and adequate level of water service and facilities in a cost effective manner to accommodate existing and future development.~~

~~OBJ PW1.1 Orange County shall continue to provide for the correction of its existing water system deficiencies. This objective shall be made measurable by implementing the following policies. (Added 12/00, Ord. 00-25)~~

POLICIES

~~PW1.1.1 Orange County shall review the Master Plan every five years and shall review and update the Water Supply Facilities Work Plan (Work Plan) within 18 months of the update to the Regional Water Supply Plans, which are required to be updated at least every five years, to identify system deficiencies and, if necessary, implement a plan for correction. The Work Plan (Orange County Water Supply Facilities Work Plan, Fiscal Year 2017/2018 to 2027/2028), prepared by the Orange County Utilities Department in conjunction with the Planning Division, is herein adopted, by reference, as data, analysis and supporting documentation for the element. (Added 12/00, Ord. 00-25; Amended 05/17, Ord. 2017-10)~~

~~PW1.1.2 A Capital Improvements Program, consistent with the Master Plan and Work Plan, shall be prepared annually in order to provide improvements and expansion to the existing water system to meet or exceed the adopted level of service. (Added 12/00, Ord. 00-25)~~

~~OBJ PW1.2 Orange County shall plan for the extension and increase in capacity of central water facilities to meet future needs within the Orange County Utilities Service Area, as required in the Orange County Comprehensive~~

Plan. The term “facilities” shall include wells, intakes, water storage tanks, treatment facilities, pumping facilities and distribution mains. (Added 12/00, Ord. 00-25)

POLICIES

~~PW1.2.1 — The Master Plan and Work Plan shall be used to prioritize and coordinate the expansion and upgrade of facilities to meet future needs.~~

~~PW1.2.2 — Expansion of central water facilities shall be based on the demands of projected development in accordance with the adopted level of service standards, the future land use projected in the Comprehensive Plan, and changes in State, Federal and local regulations. (Added 12/00, Ord. 00-25)~~

~~PW1.2.3 — Orange County shall establish and maintain a current five year Water Facilities Capital Improvements Program for the extension or increase in capacity of water facilities.~~

~~PW1.2.4 — The priority of water service provision shall be as follows:~~

~~A. Service to existing areas that present an immediate threat to public health or safety;~~

~~B. Maintenance or upgrading of the existing water system to meet or exceed the adopted level of service standards and to implement changes in State, Federal and local regulations;~~

~~C. Service to areas that are scheduled to be developed in the near future, as defined in the Water Capital Improvements~~

~~D. Extension of water service to undeveloped areas in the Urban Service Area where other major urban services have been or are being developed simultaneously; and,~~

~~E. Expansion into other areas of the Urban Service Area. (Added 12/00, Ord. 00-25)~~

~~PW1.2.5 — When central water service from Orange County Utilities is required for development, the level of service standard shall be 275 gallons per day (average daily flow) per Equivalent Residential Unit. 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. These levels of service shall also be applied for planning purposes only to review Developments of Regional Impact (DRI) and Comprehensive Plan Future Land Use Map Amendments. (Amended 5/13, Ord. 2013-11)~~

~~A. The LOS standard OCU has adopted for planning and engineering of its water supply facilities is based on the Florida Department of Environmental Protection’s (FDEP’s) capacity analysis standards. OCU evaluates the need for water supply facility expansion over a ten year planning horizon if~~

~~observed maximum day water demands are equal to or greater than 75% of the total permitted maximum day operating capacity of the water supply facilities. If the observed maximum day demand exceeds 75% of the total permitted maximum day operating capacity of the water supply facility, then OCU will be required to submit a Capacity Analysis Report to the FDEP in accordance with the requirements of Section 62-555.348 of the Florida Administrative Code (FAC).~~

~~In addition, OCU has developed WSF and Water Reclamation Facility (WRF) treatment capacity percentage based expansion criteria and schedule to address the requirements of Sections 62-555.348 and 62-600.405(8) of the FAC. The expansion criteria and schedule are as follows:~~

- ~~• WSF: When the MDD equals or exceeds 75% of maximum day treatment capacity, submit capacity analysis report.~~
- ~~• WRF: When the maximum 3-month ADF exceeds 50% of the permitted treatment, submit capacity analysis report.~~
- ~~• WSF/WRF: When the MDD / maximum 3-month ADF meets or exceeds 80% of the permitted treatment capacity, start request for proposals for consultant services for preliminary and final design.~~
- ~~• WSF/WRF: When the MDD / maximum 3-month ADF meets or exceeds 85% of the permitted treatment capacity, begin final design.~~
- ~~• WSF/WRF: When the MDD / maximum 3-month ADF meets or exceeds 90% of the permitted treatment capacity, the expansion needs to be in construction. (Added 05/17, Ord. 2017-10)~~

~~PW1.2.6 — Connections to the potable water system shall be allowed only where capacity is available. Capacity shall include minimum fire flow requirements pursuant to Orange County Code. (Added 12/00, Ord. 00-25)~~

~~PW1.2.7 — Extension of water transmission facilities from the existing central system to a development shall be provided at the developer's cost.~~

~~PW1.2.8 — If an interim water system is approved, the following requirements shall be met.
A. A plan for connection to the nearest central system and financing of the tie-in must be approved by Orange County. (Added 12/00, Ord. 00-25)~~

~~PW1.2.9 — The water capacity demand charges for a connection shall be based on equivalent residential units. (Added 12/00, Ord. 00-25)~~

~~PW1.2.10 — Public or approved private water systems in Orange County shall be self-supporting and shall not use ad valorem taxation.~~

~~PW1.2.11 — When central water service from private utilities or municipalities is required for development in unincorporated Orange County, the level of service standard~~

shall be as listed below. (Added 12/00, Ord. 00-25; Amended 05/17, Ord. 2017-10)

UTILITY NAME	LOS
City of Apopka	177 gallons per day (gpd)/capita
City of Casselberry	100 gpd/capita
City of Eatonville	100 GPD/ capita
City of Kissimmee	96 gpd/capita residential
	120 gpd per room hotel/motel
	0.1 gpd per gross square foot of floor area commercial
	10 gpd per student public or private schools
City of Maitland	350 gpd/equivalent residential connection (ere)
City of Mount Dora	135 gpd/capita
Town of Oakland	119 gpd/capita
City of Ocoee	300 gpd/ERC
Winter Park Utilities	150 gpd/capita average usage
City of Winter Garden	350 gpd/eru
Orlando Utilities Commission	325 g/dwelling unit/day without reclaimed or 160 g/du/d with reclaimed
Land Use	
Single Family Residential	325 g/du/day without reclaimed or 160 g/du/day with reclaimed
Multifamily Residential	200 g/du/day
Office	0.15 g/sqft/ day
Commercial	0.13 g/sqft/ day
Hotel	187 g/room/ day
Industrial	0.22 g/sqft/ day
Government	0.15 g/sqft/day
Hospital	0.22 g/sqft/day
Reedy Creek Utilities	Does not have an adopted LOS per RCU
Central Florida Research Park	Not Available
East Central Florida Services Inc. [†]	Not Available
Florida Water Service	Not Available
Lake Ola Homeowners	Not Available
Southern States Utilities	200 gpd/eru

UTILITY NAME	LOS
Wedgfield Utilities Inc.	356 gpd/capita
Zellwood Water Users	Not Available
<p>1 This system serves the Deseret Ranch's pasture and citrus grove irrigation system and homes on ranch property.</p> <p>NOTE: Orange County Planning Division has distributed surveys to all private and public providers throughout the County in order for the above information to be updated.</p>	

~~PW1.2.12 Orange County shall continue to participate in the regional water supply planning efforts of the St. Johns River Water Management District and the South Florida Water Management District' to establish and implement efficient and cost-effective public water supply plans for the region, without creating significant adverse impacts to natural systems. (Added 12/00, Ord. 00-25)~~

~~**OBJ PW1.3 Orange County shall maximize the use of existing potable water facilities and available capacity through the implementation of appropriate technology and management strategies for enhancing water supply and reducing demand, including traditional and alternative water supply options, conservation and reuse. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~PW1.3.1 The shift to new technologies and operational procedures, including expanded conservation programs, water rate increases, system interconnections and alternative water supply options such as reclaimed water reuse and storage, shall occur as they become technically and economically feasible.~~

~~PW1.3.2 The County shall actively participate in the development of innovative water programs which protect and conserve the County's water resources.~~

~~**OBJ PW1.4 Water facility plans and programs shall be designed to be consistent with the Future Land Use Element and to avoid urban sprawl.**~~

POLICIES

~~PW1.4.1 Water facility plans and programs shall be designed and coordinated in a manner which will support the Urban Service Area growth management concept. Future growth at urban densities or intensities shall be located in areas which have existing or planned potable water capacity. (Added 12/00, Ord. 00-25)~~

~~PW1.4.2 Potable water service shall not be extended to areas outside the Urban Service Area except in the following circumstances:~~

- ~~A. The facilities to be extended will serve a Growth Center, Lake Pickett,~~

~~public school, or other exception areas as provided in the Comprehensive Plan;~~

~~B. The Board of County Commissioners has made an affirmative finding that a public health hazard exists for existing development. Such facilities shall not serve as the basis for additional new development;~~

~~C. The facilities are to be extended to provide adequate fire flows to existing developments which are located within one-half (1/2) mile of an existing water transmission main;~~

~~D. For approved sector plans as provided for in the CP; and~~

~~E. The circumstances described under Policy PW1.5.2 and Policy PW1.5.3.~~

~~This policy is not intended to preclude the use of conservation or rural areas for withdrawal or treatment facilities. (Added 12/00, Ord. 00-25; Amended 07/16, Ord. 2016-17; Amended 11/17, Ord. 2017-19)~~

~~PW1.4.3 — Excluding the provision of potable water service to areas designated as Lake Pickett, when it has been determined the extension of potable water facilities into the Rural Service Area is necessary, such existence or planned extension of potable water mains facilities shall not be construed as adequate justification for development at urban intensities in the Rural Service Area. Transmission mains that will service such rural areas shall be sized to provide domestic flow to satisfy existing land use including the provision of adequate fire flow. (Amended 07/16, Ord. 2016-17)~~

~~PW1.4.4 — Development approvals should be granted by the Orange County Board of County Commissioners only when fire flows meet or exceed the requirements of County Subdivision Regulations, Commercial Site Plan Regulations and amendments thereto. Minimum fire flows and pressure requirements must be available to the development site prior to issuance of Certificates of Occupancy.~~

~~**OBJ PW1.5 — In the interest of maintaining adequate potable water quality for Rural Settlements, the new construction or extension of central water systems serving Rural Settlements shall be approved by the Board of County Commissioners on a case by case basis consistent with the CP. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~PW1.5.1 — Existing potable water facilities serving Rural Settlements shall not be used as a reason to increase allowable densities in the Rural Settlements. (Added 12/00, Ord. 00-25)~~

~~PW1.5.2 — When the provision of central water facilities for a Rural Settlement is proposed, the Board of County Commissioners shall approve such a proposal only if the Board is able to make the following two findings: first, a finding of need of central water facilities for the particular Rural Settlement; and second, a finding of consistency with the Comprehensive Plan, including the policies of~~

~~the Potable Water and Future Land Use Elements. The provision of water services to a school located in a Rural Settlement is also subject to FLU8.7.8. (Added 12/00, Ord. 00-25; Amended 11/17, Ord. 2017-19)~~

~~PW1.5.3 — The Board of County Commissioners has made an affirmative finding that the extension of potable water facilities is required to remediate health and safety concerns in the Bithlo Rural Settlement. In order to address the concern for public health in this area, the following conditions apply to the potable water system expansion to the Bithlo Rural Settlement:~~

~~A. The extended utility lines shall be used only by vested development within the Bithlo Rural Settlement.~~

~~B. The extended utility lines shall not be a justification or basis for approving new development.~~

~~C. The utility lines shall not be used for any new non-vested development beyond one unit per acre in the Bithlo Rural Settlement.~~

~~D. Non-vested development shall not be allowed to connect to the extended utility lines until a sector plan is approved or Lake Pickett Future Land Use designation is established. (Added 12/00, Ord. 00-25; Amended 07/16, Ord. 2016-17)~~

~~**OBJ PW1.6 — Orange County shall continue to coordinate with municipal and private water agencies to assist in preventing fragmentation, duplication of effort, overlapping jurisdictions and excessive costs by implementing the following policies. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~PW1.6.1 — Orange County shall continue to enter into territorial agreements with adjacent municipalities, counties and other utilities regulated by the Public Service Commission in order to encourage cost effective service to avoid unnecessary duplication in the provision of water services, to describe the location of each utility's service area, and to coordinate and confirm the associated service provision commitments. (Added 12/00, Ord. 00-25)~~

~~**OBJ PW1.7 — The County shall continue to implement its program to eliminate the amount of unaccounted for water. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~PW1.7.1 — User fees shall be evaluated to ensure funds are available to fund programs to reduce unaccounted water loss. (Added 12/00, Ord. 00-25)~~

~~PW1.7.2 — Orange County shall continue requiring potable water consumption to be metered for residential and non-residential uses to ensure accountability of water. (Added 12/00, Ord. 00-25)~~

~~PW1.7.2.1 — Orange County shall continue to conduct water audits for its system's potable~~

water transmission and distribution lines to determine pipe quality. The results of the audits shall be considered by the Utilities Department when prioritizing projects for incorporation into the Capital Improvements Program (CIP). (Added 12/00, Ord. 00-25)

~~OBJ PW1.8 Orange County shall provide an adequate level of potable water services and facilities to development within the unincorporated area in a cost effective manner. (Added 12/00, Ord. 00-25)~~

POLICIES

~~PW1.8.1 Connection fees shall supplement the total cost of all necessary public potable water system expansions. (Added 12/00, Ord. 00-25)~~

~~PW1.8.2 User fees shall cover the full cost of operating and maintaining the potable water system, including debt service. (Added 12/00, Ord. 00-25)~~

~~GOAL PW2 It is Orange County's goal to provide water service and facilities which are environmentally sound, promote water conservation and reclaimed water reuse, and protect the quality of the water supply.~~

~~OBJ PW2.1 Orange County well regulations and policies shall be enforced, and if necessary amended, to mitigate adverse environmental impacts and eliminate health hazards. (Added 12/00, Ord. 0025)~~

POLICIES

~~PW2.1.1 The Health and Rehabilitative Service Orange County Public Health Unit shall not permit wells for future development that are inconsistent with the Comprehensive Plan.~~

~~PW2.1.2 As stipulated in the Land Development Code, Orange County shall allow the use of private wells for potable water use for development only in areas where central water service is not available.~~

~~PW2.1.3 As stipulated in the Land Development Code, new development in the Urban Service Area shall be connected to a central water system. The waiver of this requirement to permit the use of wells should only be considered pursuant to Potable Water Policy PW2.1.2. Such wells shall be approved on an interim basis only. (Added 12/00, Ord. 00-25)~~

~~PW2.1.4 Developments with interim wells, approved by the Board of County Commissioners pursuant to Potable Water Policy PW2.1.3, shall be required to connect to central water systems at the property owner's expense within one year from the date of notification by the County that such central water facilities are available within the stipulated distances approved by the Board of County Commissioners at the time the interim wells were permitted. This stipulation is included in the Land Development Code. (Added 12/00, Ord. 00-25)~~

~~PW2.1.5 — Orange County has developed and shall continue to maintain cross connection control and wellhead protection programs in accordance with State, Federal and local guidelines. (Added 12/00, Ord. 00-25)~~

~~PW2.1.6 — Orange County shall continue to monitor the drawdown of wellfields of Orange County Utilities in order to prevent adverse impacts to adjacent natural resources. (Added 12/00, Ord. 00-25)~~

~~PW2.1.7 — In the interest of protecting potable water wellfields, Orange County shall continue to implement its Small Quantity Generator Notification Program pursuant to Chapter 403, FS, Rule Chapter 62-730 FAC, Rule Chapter 62-731, FAC. The County shall also continue to comply with the State's Wellhead Protection regulations in Chapter 62-521, FAC. (Added 12/00, Ord. 00-25)~~

~~PW2.1.8 — Orange County shall maintain Geographic Information Systems (GIS) maps reflecting the location of drainage wells that could have an adverse impact on groundwater. (Added 12/00, Ord. 00-25)~~

~~PW2.1.9 — A zone of protection area of 500 feet in radius from each public potable water well in the unincorporated area shall be considered the wellfield protection zone. The first 200 foot radius closest to the well shall be a zone of exclusion, where no regulated businesses listed on the County's Environmental Protection Division's List of Regulated Businesses by SIC Code will be permitted except that related with water supply provision. Within the remainder of the zone of protection, land uses shall be regulated to prohibit the following:~~

~~A. Landfills;~~

~~B. Activities that require the storage, use or transportation of restricted substances on the Resource Conservation and Recovery Act's or the Environmental Protection Agency hazardous wastes lists;~~

~~C. Feedlots or other commercial animal facilities;~~

~~D. Wastewater treatment plants and their ancillary facilities;~~

~~E. Mines; and,~~

~~F. Excavation of waterways, borrow pits or drainage facilities that intersect the water table. (Added 12/00, Ord. 00-25)~~

~~**OBJ PW2.2 — Orange County shall support the use of innovative water conservation techniques and strategies, and will conserve water resources through coordination with the St. Johns River Water Management District and South Florida Water Management District and implementation of County and other agency programs.**~~

POLICIES

~~PW2.2.1 — Orange County shall continue to support and assist the Water Management Districts in implementing the development of a County-wide consumptive use~~

~~study program utilizing water use projections and ground water modeling to monitor the effects of withdrawals from the Floridan Aquifer. (Added 12/00, Ord. 00-25)~~

~~PW2.2.2 — Orange County shall continue to implement its Water Conservation Program and require the installation of products that minimize the demand for water in all new developments as stipulated in the County's Plumbing Code. (Added 12/00, Ord. 00-25)~~

~~PW2.2.3 — The County shall coordinate with Water Management Districts to monitor the drilling of new wells, enforce the capping of abandoned wells, and require the placement of valves on existing free flowing wells so water will be used only as required. It is not the intent of this policy to affect agricultural production or agricultural processing.~~

~~PW2.2.4 — Orange County shall coordinate with the Water Management Districts to monitor the amount of groundwater pumped from the aquifer underlying the County that is distributed for use outside the County; and, if necessary, assist in the emergency conservation of groundwater.~~

~~PW2.2.5 — Orange County shall encourage municipalities, counties, and private entities, which export water, underlying Orange County to use other sources of potable water and/or use water conservation measures. Such encouragement shall be by providing technical assistance and participating in studies conducted by the Water Management Districts.~~

~~PW2.2.6 — The County shall continue to implement its educational programs to promote a safe maximum withdrawal rate from the aquifer. The educational programs include conservation techniques that can be used by homeowners and information regarding leak detection. (Added 12/00, Ord. 00-25)~~

~~PW2.2.7 — Orange County shall provide potable water in compliance with Environmental Protection Agency and Department of Environmental Protection's safe drinking water standards. (Added 12/00, Ord. 00-25)~~

~~PW2.2.8 — Orange County shall continue to investigate all feasible techniques for the use of reclaimed water. The County shall seek out opportunities to use reclaimed water for uses such as irrigation, groundwater recharge, industrial purposes and agricultural purposes. (Added 12/00, Ord. 00-25)~~

~~PW2.2.9 — As stipulated in the Reclaimed Water Ordinance, all development containing irrigated open space, shall be required to accept reclaimed water for irrigation when such reclaimed water is available. (Added 12/00, Ord. 00-25)~~

~~PW2.2.10 — Orange County shall participate in voluntary and mandatory water restrictions established by the Water Management Districts. This shall include limiting the irrigation of landscaping on public property to the hours specified in the restrictions. (Added 12/00, Ord. 00-25)~~

~~PW2.2.11 — Orange County shall continue to provide incentives and enforce regulations requiring water efficient Florida friendly landscaping techniques, to reduce the irrigation demand for potable water in new developments. (Added 12/00, Ord. 00-25)~~

~~PW2.2.12 — Pursuant to the Orange County Water and Wastewater Code, the County shall continue to implement its water conservation and shortage regulations. In addition, the Code requires that during such times as either the St. Johns River Water Management District or the South Florida Water Management District declares a water shortage, the specific restrictions imposed by the applicable water management district that are more restrictive than the regulations of the County's Water Conservation Rules in the Water and Wastewater Code shall apply.~~

~~PW2.2.13 — Orange County shall continue to implement the Water Conservation Act (Section 553.14, FS) through provisions in the Building and Land Development Codes. (Added 8/93, Ord. 93-19; Amended 12/00, Ord. 00-25)~~

~~PW2.2.14 — Pursuant to Chapter 373.609, FS, Orange County shall, upon request, assist the Water Management Districts in the enforcement of Water Management District guidelines during declared water shortages.~~

~~**OBJ PW3.1 — Orange County shall develop and maintain a Water Supply Facilities Work Plan (Work Plan) for at least a 10-year planning period addressing traditional and alternative water supply sources, facilities, and issues necessary to serve existing and future development within the jurisdiction of Orange County.**~~

~~The Work Plan is developed based on a long term strategy that incorporates the following components:~~

- ~~• Continue to implement and expand effective water conservation measures~~
- ~~• Increase rates for potable and non-potable water used for irrigation to encourage greater conservation~~
- ~~• Optimize the efficient use of fresh groundwater from the Floridian aquifer~~
- ~~• Interconnect systems to create regional flexibilities and efficiencies~~
- ~~• Maximize the beneficial use of reclaimed water~~
- ~~• Continue aquifer recharge projects in areas of greatest benefit~~
- ~~• Expand reuse distribution facilities for irrigation and other beneficial uses~~
- ~~• Continue to develop additional alternative water supply sources such as surface water for potable supply and non-potable augmentation~~

- ~~Investigate additional management and supply options such as reservoir storage, and stormwater reuse~~
- ~~Utilize aquifer storage and recovery for supply management~~

(Amended 05/17, Ord. 2017-10)

POLICIES

~~PW3.1.1 — The Work Plan shall be consistent with the potable water level of service (LOS) standards established in Policies PW1.2.5 and PW1.2.11. (Amended 05/17, Ord. 2017-10)~~

~~PW3.1.2 — The Work Plan identifies traditional and alternative water supply sources, including water conservation, water rate increases, system interconnections and reuse that the County will use to meet existing and projected water demands. The alternative water supply projects delineated in the Work Plan have been selected from the Regional Water Supply Plans adopted or approved by the St. Johns River Water Management District and/or South Florida Water Management District, or otherwise proposed by the County.~~

~~PW3.1.3 — The Work Plan shall be updated at least every 5 years, but no later than 18 months following adoption of the applicable Water Management Districts' Regional Water Supply Plan updates.~~

~~PW3.1.4 — The Work Plan, together with the County's Water Master Plan, shall be used to prioritize and coordinate the expansion and improvement of facilities used to withdraw, transmit, treat, store and distribute potable water to meet current and future needs within the County's service areas.~~

~~PW3.1.5 — Orange County shall establish and maintain, at a minimum, a current 5 year schedule of capital improvements for the improvement, extension and/or increase in capacity of traditional and alternative water supply facilities and system components, both capacity and non-capacity related. The schedule of capital improvements for water supply facilities shall be updated annually consistent with the Work Plan.~~

~~PW3.1.6 — Orange County's capacity related strategy and capital improvement projects for traditional water supply facilities are summarized below consistent with the Work Plan. These projects and project components, including estimated costs and funding sources, are adopted in the Capital Improvements Element as part of the 5 year schedule of capital improvements. Project numbers are listed as appropriate for cross reference to Index by Financial Unit in the capital improvements schedule.~~

- ~~Oak Meadows Wellfield Expansion (Permitted Well OM-5), currently in the construction phase, includes one new Lower Floridan aquifer well at the facility with a capacity of 1.8 mgd, AADF. This well is planned for completion by 2017. (West Service Area, CIS 1532-14)~~

- ~~Western Regional WSF/Wellfield Phase IIB Expansion, currently in design and planned for completion by 2023, may increase treatment capacity by another 7.0 mgd, AADF and involves one new Lower Floridan aquifer well (well WR-11, already permitted) with a capacity of 2.2 mgd, AADF, to be completed by 2018. (West Service Area, CIS 1532)~~
- ~~Malcolm Road WSF/Wellfield, currently in design (treatment facility) and construction (wells), includes a new treatment plant and Floridan aquifer wellfield, each with capacity of 4.0 mgd, AADF. Wells are planned for completion by 2017, and treatment plant by 2019. (Southwest Service Area, CIS 1557)~~
- ~~Eastern Regional WSF Phase IIB Expansion, with final design and construction planned for completion in September 2017 and February 2020, respectively, increases treatment capacity from 50 mgd to 62.4 mgd AADF. (East Service Area, CIS 1554-02)~~
- ~~East Service Area South Service Area Water Transmission Main Interconnection, planned to be constructed by 2019, will increase system flexibility and reliability. (CIS 1450 and 1508)~~
- ~~I Drive Booster Pump Station, currently in the construction phase and planned for completion in 2018, will eventually transmit water from the Cypress Lake brackish groundwater AWS project. (CIS 1498-10).~~

~~(Amended 05/17, Ord. 2017-10)~~

~~PW3.1.7 Development of Orange County's reclaimed water system is a critical component of the County's water supply strategy. Orange County's capacity-related strategy and capital improvements projects for water reclamation and reuse facilities are summarized below consistent with the Work Plan. These projects and project components, including estimated costs and funding sources, are adopted in the County's Capital Improvements Element as part of the 5-year schedule of capital improvements. Project numbers are listed as appropriate for cross reference to Index by Financial Unit in the capital improvements schedule.~~

- ~~Northwest WRF Phase IIB Expansion, planned to be constructed by 2025, will increase the capacity of the chlorine contact chamber, increasing the overall treatment capacity of the facility by 1.0 mgd, AADF. (West Service Area, CIS 1435)~~
- ~~Northwest WRF Reclaimed Main Extension to Apopka, planned to be constructed by 2022, and expected to add 2.5 mgd to 3.0 mgd, AADF to the existing capacity of the reuse system in the West Service Area. (West Service Area, CIS 1435)~~
- ~~Southwest WRF Phase I, planned to be constructed by 2025, for a total treatment capacity of 5.0 mgd, AADF. Further phases are planned to provide additional capacity and to receive flow diversion from the South Service Area. (Southwest Service Area, CIS 1507)~~

- ~~South WRF Phase V Expansion, planned completion of March 2019, will increase treatment capacity by 13 mgd from 43.0 to 56.0 mgd, AADF. (South Service Area, CIS 1555-01)~~
- ~~Eastern WRF Phase V Improvements, planned for completion by May 2018, will increase treatment capacity from 19.0 to 24.0 mgd, AADF. (East Service Area, CIS 1538)~~
- ~~Eastern WRF Phase VI Expansion, planned to be completed by 2027, will increase treatment capacity from 24.0 to 29.0 mgd, AADF. (East Service Area, CIS 1538)~~
- ~~Southeast Reclaimed Water System Expansion Project, will be constructed throughout the planning horizon to distribute reclaimed water to meet reuse irrigation demands in the East Service Area, estimated to be as much as 9 mgd, AADF by 2020. (CIS 1483, CUP #3317 Condition 26)~~

~~(Amended 05/17, Ord. 2017-10)~~

~~PW3.1.8 — Development of alternative water supply projects is a critical component of the County's water supply strategy and necessary to meet future water demands. Orange County's alternative water supply projects including surface water capital improvement projects are summarized below consistent with the Work Plan. These projects and project components, including estimated costs and funding sources are adopted in the County's Capital Improvements Element as part of the 5-year schedule of capital improvements. Project numbers are listed as appropriate for cross reference to Index by Financial Unit in the capital improvements schedule.~~

- ~~Cypress Lake Wellfield, a collaborative AWS STOPR project, will provide OCU with a 9 mgd, AADF finished water potable supply capacity increase. Construction of this project is currently projected to be completed by approximately 2023. (CIS 1550-08, CFWIRWSP Projects 3, 4 and 5).~~
- ~~St. Johns River/Taylor Creek Reservoir Water Supply Project, an estimated 50 mgd, AADF surface water potable supply project in 2030 (CIS 1550; CUP #3317 Condition 23; WUP # 48-00134 W Condition 25; CFWIRWSP Project 126), peak production of 54 mgd finished water. OCU is participating collaboratively in this regional water supply development project with five other central Florida potable water suppliers: OUC, East Central Florida Services, and Tohopekaliga Water Authority (who all provide some water in unincorporated Orange County); and the City of Cocoa and City of Titusville. The exact supply volume distribution among suppliers is yet to be finalized, but it is anticipated that OCU's share would be at least 10 mgd, AADF.~~

~~(Amended 05/17, Ord. 2017-10)~~

~~**OBJ PW3.2 — Orange County shall identify, investigate and use any technically, environmentally and economically feasible traditional or alternative**~~

~~sources of water that may be used to meet existing and future water demands when updating or maintaining the Work Plan.~~

POLICIES

~~PW3.2.1 — In conjunction or coordination with the St. Johns River Water Management District, the South Florida Water Management District, and other local governments or private utilities, Orange County shall seek the development of water sources that will satisfy existing and future demands, without causing adverse impacts to water quality, wetlands, aquatic systems or the environment. These sources may include, but are not limited to, fresh groundwater, reclaimed water, stormwater, brackish groundwater, surface water and seawater. In addition, the County will proactively investigate the application of new water resource development technologies to meet existing and future water demand.~~

~~PW3.2.2 — Orange County will maximize the efficient use of existing potable water facilities through the implementation of management techniques that can enhance a source of supply, sustain water resources and related natural systems, and optimize water supply yield. Available techniques may include, but are not limited to, water conservation, potable water rate increases, non-potable water reuse, system interconnects, and storage.~~

~~PW3.2.3 — Orange County shall coordinate, cooperate and participate with utility providers in the region and the water management districts in the development and update of local and regional water supply plans and assessments. In addition, Orange County will continue to collaborate and jointly develop interconnected sources and facilities to consolidate water services and to improve efficiencies that will support and enable Orange County to perform and implement an effective water supply program.~~

~~PW3.2.4 — The County will coordinate with the City of Orlando to evaluate improvements and expansion of the Water Conserv II system to support the Master Plan recommendations and other City of Orlando plans.~~

~~**OBJ PW3.3 — Orange County shall promote and sustain compatibility between the built and natural systems.**~~

POLICIES

~~PW3.3.1 — Orange County shall coordinate with the St. Johns River Water Management District, the South Florida Water Management District, and other entities to assist with implementation of goals and provisions of the Regional Water Supply Plans and other local/municipal water resource management and restoration programs, to evaluate the long term needs of the natural and built environments, to restrict activities that may result in the degradation or over-utilization of potable water resources, and to assure adequate water supply for the competing needs of native ecosystems, agriculture, and domestic and industrial users.~~

~~PW3.3.2 — Orange County shall work with the Water Management Districts, during updates to their Regional Water Supply Plans, to identify potentially feasible alternative water supply projects.~~

~~PW3.3.3 — Orange County will integrate growth management, land use and water resource planning to ensure the availability of water for Orange County and regional water management purposes.~~

~~* * *~~

Potable Water, Wastewater and Reclaimed Water Element Goals, Objectives and Policies

WASTEWATER AND RECLAIMED WATER

~~GOAL WW1 It is Orange County's goal to provide an efficient and adequate level of wastewater service in a cost effective manner to accommodate existing and future development.~~

~~OBJ WW1.1 Orange County shall consistently monitor for wastewater facility deficiencies. In the event system deficiencies are identified, Orange County shall provide for the correction of these wastewater system deficiencies, rehabilitation and improvements by implementing the following policies.~~

POLICIES

~~WW1.1.1 — The Master Plan shall identify and provide for the correction of wastewater system deficiencies, rehabilitation and improvements. The Master Plan (PBS&J/CH2M Joint Venture, 2002 *Water, Wastewater, and Reclaimed Water Master Plan, September 2006*) and the Water Supply Facilities Work Plan (*Orange County Water Supply Facilities Work Plan, 2008*) are herein adopted by reference, as the data, analysis and supporting documentation for the element.~~

~~WW1.1.2 — High priority shall be given in the Capital Improvements Program to the maintenance and improvement of the existing wastewater system to meet or exceed the adopted level of service as defined in Policies WW1.2.5 and WW1.2.5.1. (Policy 1.1.2-r)~~

~~WW1.1.2.1 — Orange County shall review the Master Plan every five years and shall review and update the Work Plan within 18 months of the update to the Regional Water Supply Plans, which are required to be updated at least every five years to identify system deficiencies and, if necessary, implement a plan for correction.~~

~~WW1.1.3 — Owners of existing package treatment facilities, not regulated by the Public Service Commission, are required to adopt a financial plan providing for connection to an area wide wastewater system within five years after the date on which the system is available within one quarter (1/4) mile. (Added 12/00,~~

~~Ord. 00-25)~~

~~WW1.1.4 — The County shall continue to implement the sewer assessment system, which monitors the quality of the gravity and pump functions of the County wastewater system. (Added 12/00, Ord. 00-25)~~

~~WW1.1.5 — Wastewater treatment package plants not regulated by the Public Service Commission shall not be expanded to accommodate new or expanded development. This policy shall not preclude the usage of interim wastewater systems constructed for new development approved in accordance with wastewater policy WW1.2.9. (Added 12/00, Ord. 00-25)~~

~~**OBJ-WW1.2 — Orange County shall plan for the extension and increase in capacity of central wastewater facilities to meet future needs within the Orange County Utilities Service Area, as required in the Orange County Comprehensive Plan by implementing the following policies. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~WW1.2.1 — The Wastewater Master Plan shall be used to prioritize and coordinate the expansion and upgrade of facilities to meet future needs.~~

~~WW1.2.2 — Expansion of central wastewater facilities shall be based on the demands of projected development in accordance with the adopted level of service standards, the future land use projected in the Comprehensive Plan, and changes in State, Federal and local regulations. (Added 12/00, Ord. 00-25)~~

~~WW1.2.3 — Orange County shall establish and maintain a current five-year Wastewater Facilities Capital Improvements Program for the extension and increase in capacity of wastewater facilities.~~

~~WW1.2.4 — The priority of wastewater service provision shall be as follows:~~

~~A. Service to existing areas that present either an immediate threat to public health or safety, or produce serious pollution problems;~~

~~B. Maintenance or upgrading of the existing wastewater system to meet or exceed the adopted level of service standards and to implement changes in State, Federal and local regulations;~~

~~C. Service to areas that are scheduled to be developed in the near future as defined in the Wastewater Facilities Capital Improvements Program;~~

~~D. Extension of wastewater service to undeveloped areas in the Urban Service Area where other major urban services have been or are being developed simultaneously; and,~~

~~E. Expansion into other areas of the Urban Service Area. (Added 12/00, Ord. 00-25)~~

~~WW1.2.5~~ — When central wastewater service from Orange County Utilities is required for development, the level of service standard shall be 225 gallons of wastewater per day (average daily flow) per Equivalent Residential Unit. Interim wastewater systems (permanent package treatment plans are no longer allowed in Orange County) shall also have a level of service standard of 225 gallons of wastewater per day (average daily flow) per Equivalent Residential Unit. Follow 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. These levels of service shall also be applied for planning purposes only to review Development of Regional Impact (DRI) and Future Land Use Map Amendments to the Comprehensive Plan. Orange County Utilities shall ensure that sufficient wastewater treatment facility capacity is maintained. Once the three month average daily flow equals or exceeds 50% of a system's permitted capacity or once the sum of current three months average daily flow plus future committed average daily flow equals or exceeds 90% of permitted capacity, a report shall be presented to the Florida Department of Environmental Protection on the need to increase capacity and, if capacity needs to be increased, the method of increase estimated cost and timing. The capacity report shall identify recommended improvements, improvement costs and the timing of such improvements. Facilities scheduled for design and construction, as identified by the capacity report, shall be considered for inclusion into Orange County's Five Year and Ten Year Capital Improvement Program. Facilities approaching build out shall be exempt from this requirement. Facilities approaching build out are defined to be built to the ultimate capacity required to accommodate all projected growth within the system's service area. (Added 8/92, Ord. 92-24; Amended 12/00, Ord. 00-25, Policy 1.2.5-r; Amended 5/13, Ord. 2013-11)

~~WW1.2.6~~ — When central sewer service from private utilities or municipalities is required for development in unincorporated Orange County, the level of service standard shall be as listed below. (Added 12/00, Ord. 00-25)

<i>UTILITY NAME</i>	<i>-LOS</i>
City of Apopka	103 gallons per capita per day
City of Ocoee	270 gallons per day per equivalent residential unit
City of Mt Dora	130 gallons per capita per day
Park Manor Utilities	230 gallons per equivalent residential unit
Winter Park Utilities	333 gallons per equivalent residential unit
Seminole County Utilities	1 million gallons per day (UCF campus and Central Florida Research Park)
Florida Water Services	125 gallons per day per capita
Utilities Inc. of Florida	300 gallons per day per equivalent residential

<i>UTILITY NAME</i>	<i>LOS</i>
(Wedgfield)	connection
Orlando Utilities Commission	
Land Use	LOS
Single-Family Residential	284 g/du/d
Multifamily Residential	223 g/du/d
Office	0.1 g/square feet/d
Commercial	0.25 g/square feet/d
Industrial	0.15 g/square feet/d
Lodging	150 g/room/d
Government	0.1 g/square feet/d
Hospital	0.25 g/square feet/d

~~WW1.2.7~~ — ~~Connections to the wastewater systems shall be allowed only where capacity is available. (Added 12/00, Ord. 00-25)~~

~~WW1.2.8~~ — ~~Extension of wastewater transmission facilities from the existing central system to a development shall be provided at the developer's cost.~~

~~WW1.2.9~~ — ~~If an interim wastewater system is approved, the following requirements must be met:~~

~~A. A plan for connection to the nearest central system and financing of the tie-in must be approved by Orange County; and,~~

~~B. Normal connection fees associated with the connection to the County's wastewater system must be paid in accordance with County resolutions and ordinances, and prior to construction plan approval for the development the interim system is proposed to serve.~~

~~C. Construction of dry lines may be required. (Added 12/00, Ord. 00-25)~~

~~WW1.2.10~~ — ~~Connection fees shall supplement the total cost of the needed wastewater system expansion. (Added 12/00, Ord. 00-25)~~

~~WW1.2.11~~ — ~~Public or approved private wastewater systems in Orange County shall be self-supporting and shall not use ad valorem taxation for maintenance and operation.~~

~~**OBJ WW1.3**~~ ~~**Orange County shall maximize the use of existing wastewater facilities and available capacity through the implementation of appropriate technology. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~WW1.3.1~~ — ~~The shift to new technologies and operational procedures shall occur as they~~

become feasible. The Utilities Department shall monitor and maintain the current Supervisory Control and Data Acquisition (SCADA) system utilizing the newest technologies available to the County. (Added 12/00, Ord. 00-25)

~~WW1.3.2 The County shall actively participate in the development of innovative wastewater programs which protect and conserve the County's water resources.~~

~~WW1.3.3 User fees shall cover the full cost of operating and maintaining the system, including debt service.~~

~~WW1.3.4 Orange County shall continue to monitor and reduce the influence, collection, and treatment of unwanted water entering the wastewater system from infiltration and inflow, combined sewer overflow, stormwater and unaccounted wastewater and remediate system deficiencies.~~

~~WW1.3.5 The Orange County Utilities Department shall implement and maintain a system of metering for its reclaimed water customer connections, and shall continue to require individual metering of reclaimed water connections to single family residential customers on public streets.~~

~~**OBJ WW1.4 Wastewater facility plans and programs shall be designed to be consistent with the Future Land Use Element and to avoid urban sprawl as implemented by the following policies. Wastewater service shall not be extended to areas outside the Urban Service Area except as provided in Wastewater Policy WW1.4.3. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~WW1.4.1 Wastewater facility plans and programs shall be designed and coordinated in a manner which will support the Urban Service Area growth management concept.~~

~~WW1.4.2 Future growth at urban densities or intensities shall locate in areas which have existing or planned wastewater capacity.~~

~~WW1.4.3 Central wastewater facilities, consisting of wastewater treatment facilities, pump stations, force and gravity mains shall not be extended beyond the boundary of the Urban Service Area except in the following circumstances:~~

~~A. The facilities to be extended will serve a Growth Center, public school, or other exception areas within Specific Area Plan (SAP) boundaries as provided for in the Comprehensive Plan (CP), or a Lake Pickett-designated area;~~

~~B. The Board of County Commissioners has made an affirmative finding that a public health hazard exists for existing development. Such extended facilities shall not serve as a basis for additional new development;~~

~~C. For approved sector plans as provided for in the CP;~~

~~D. Those circumstances described under Policy WW1.5.2 herein.~~

~~This policy is not intended to preclude the use of conservation or rural areas for wastewater treatment facilities or the interconnecting of the overall system. (Added 12/00, Ord. 00-25; Amended 07/16, Ord. 2016-17; Amended 11/17, Ord. 2017-19)~~

~~**OBJ WW1.5 In the interest of preserving the rural character and sense of place in Rural Settlements, the construction or extension of central wastewater systems serving Rural Settlements shall be limited. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~WW1.5.1 Existing wastewater facilities serving Rural Settlements shall not be used as a basis to increase allowable densities in the Rural Settlements. This policy is not intended to preclude the use of conservation or rural areas for treatment facilities. (Added 12/00, Ord. 00-25)~~

~~WW1.5.2 New central wastewater facilities shall not be constructed and existing facilities shall not be expanded to serve Rural Settlements except under the following circumstances:~~

~~A. The Board of County Commissioners has made an affirmative finding that the facilities are necessary to support existing future land use designations on the adopted Future Land Use (FLU) map consistent with the Future Land Use Objective FLU2.1. The future land use designations referenced in this policy are those reflected on the adopted FLU map as of the date of adoption of this policy. Facility expansion under this policy must be incorporated into the County's five-year Capital Improvements Program (CIP); or~~

~~B. The Rural Settlement has experienced a State documented economic decline as a result of the loss of a major area employer. The central wastewater facilities may be expanded for the purpose of revitalizing the area by attracting new commercial and industrial businesses and offering incentives to existing businesses to remain in the area. This policy shall apply only to the Zellwood Rural Settlement, consistent with the Future Land Use Element.~~

~~C. The Board of County Commissioners has made an affirmative finding that the facilities are necessary and available to remedy or prevent contamination of ground or surface water within the Wekiva Study Area.~~

~~D. The provision of wastewater services to a school located in a Rural Settlement is also subject to FLU8.7.8.~~

~~(Added 12/00, Ord. 00-25; Amended 12/07, Ord. 07-20; Amended 11/17; Ord. 2017-19)~~

~~WW1.5.3 The existence or new construction of wastewater facilities within the boundary of a Rural Settlement for the purpose of interconnecting (looping) to the wastewater system outside the boundary of a Rural Settlement shall not be the~~

sole basis for existing development in a Rural Settlement to connect to the wastewater system. (Added 12/00, Ord. 00-25)

~~OBJ-WW1.6 Orange County shall continue to coordinate with municipal and private wastewater agencies to assist in preventing fragmentation, duplication of effort, overlapping jurisdictions, and excessive costs by implementing the following policies. (Added 12/00, Ord. 00-25)~~

POLICIES

~~WW1.6.1 Orange County shall continue to establish territorial/joint planning agreements with adjacent municipalities and other utilities regulated by the Public Service Commission to encourage cost effective service and avoid unnecessary duplication in the provision of wastewater services. Priorities for the extension of services by these other providers are referenced in the territorial/joint planning area agreements. (Added 12/00, Ord. 00-25)~~

~~WW1.6.2 Orange County shall continue to pursue alternative funding sources and participate with other localities in order to plan and construct wastewater systems. (Added 12/00, Ord. 00-25)~~

~~WW1.6.3 Orange County shall cooperate with other wastewater service providers to jointly address ground and surface water nutrient loading issues within the Wekiva Study Area. Such efforts shall address water quality throughout the entire basin comprehensively, not only on a site specific basis, and shall aim to leverage limited resources and take advantage of economies of scale. These efforts are contained in the Wekiva Protection Act Facilities Plan, which is hereby adopted by reference and incorporated in the Comprehensive Plan. The objective of the plan includes:~~

- ~~• Delineation of area within the utility service area that are to be served by central facilities within 5 years;~~
- ~~• Delineation of areas where central wastewater systems are not readily available;~~
- ~~• A financially feasible schedule of improvements;~~
- ~~• An infrastructure work plan to build the facilities needed to implement the facilities plan, including those needed to meet enhanced treatment standards adopted by FDEP;~~
- ~~• A phase out of onsite septic tank systems where central facilities are available;~~
- ~~• A long range component addressing service of the joint planning area utility service area;~~
- ~~• Monitoring of existing central systems.~~

~~GOAL-WW2 It is Orange County's goal to provide wastewater services and facilities~~

~~which are environmentally sound, promote water conservation and reclaimed water reuse, and protect the quality of the water supply.~~

~~OBJ-WW2.1 All County septic tank regulations and policies shall be enforced, and if necessary amended, to prevent adverse environmental impacts and eliminate health hazards.~~

POLICIES

~~WW2.1.1 The Health and Rehabilitative Services Orange County Public Health Unit shall not issue permits for septic tanks, which are inconsistent with the criteria established in the Comprehensive Plan.~~

~~WW2.1.2 The County shall continue to implement its Septic Tank Monitoring Program to ensure the effectiveness of operation, and to reduce the potential for health hazards. The County requires repair permits be obtained from the Health Department prior to any repairs to failed septic tank systems. (Added 12/00, Ord. 00-25)~~

~~WW2.1.3 Land Development Code regulations limit the use of elevated septic tanks and drainfield systems to lots of a 1/2 acre minimum in order to provide a more balanced ecological and aesthetic approach to new development. (Added 12/00, Ord. 00-25)~~

~~WW2.1.4 The County shall continue to implement septic tank requirements as required in the governing criteria in the Onsite Sewage Disposal System Section of the Land Development Code. (Added 12/00, Ord. 00-25)~~

~~WW2.1.5 Orange County, as referenced in the Land Development Code, allows the use of septic tanks for development only in areas of suitable soils and when central wastewater services are not available. Where there are moderate soils, the County may allow the use of septic tanks based on detailed soil and site analysis so that ground or surface waters will not be polluted. Specific septic tank criteria shall be governed by the Orange County Subdivision Regulations or supplemental guidelines adopted under the proposed Land Development Code, as well as the requirements established in Chapter 10D-6 of the Florida Administrative Code. (Added 12/00, Ord. 00-25)~~

~~WW2.1.6 When it has been determined by the Board of County Commissioners that the application of Wastewater Policy WW2.1.5 will result in substantial environmental impact to the subject or abutting property, the Board may limit the density of the development. Substantial environmental impact shall be determined by one or more of the following:~~

~~A. Total clearing of on-site vegetation or placement of fill material which results in the substantial destruction of the natural vegetation;~~

~~B. Inability to meet stormwater management criteria set forth in the Orange County Subdivision Regulations or commercial site plans regulations; and,~~

~~C. Contamination of surface water bodies, groundwater under the influence of surface water and groundwater. (Added 8/93, Ord.93-19)~~

~~WW2.1.7 — As stipulated in the Land Development Code, new development in the Urban Service Area shall be connected to central wastewater systems. The waiver of this requirement to permit the use of septic tanks should only be considered pursuant to Wastewater Policy WW2.1.5. (Added 12/00, Ord. 00-25)~~

~~WW2.1.8 — As stipulated in the Land Development Code, interim septic tank system(s) approved by the Board of County Commissioners following Wastewater Policy WW2.1.7 are required to connect to central sewer systems at the property owner's expense within one (1) year from the date of notification that such central sewer facilities are available within the stipulated distances approved by the Board of County Commissioners at the time the interim septic tank system(s) was permitted. (Added 12/00, Ord. 00-25)~~

~~**OBJ WW2.2 All County wastewater treatment facilities shall be designed and monitored to prevent adverse environmental impacts and eliminate health hazards. This objective shall be measurable through the implementation of the following policy. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~WW2.2.1 — Orange County shall continue to meet or exceed all Federal and State wastewater facility regulations, which provide for the protection of the environment.~~

~~**OBJ WW 2.3 All County regulations for reclaimed water shall be enforced to prevent adverse environmental impacts and promote the conservation of natural resources. (Added 12/00, Ord. 00-25)**~~

POLICIES

~~WW2.3.1 — Orange County shall continue to investigate, coordinate and promote all feasible techniques and applications for the beneficial use of reclaimed water. (Added 12/00, Ord. 00-25)~~

~~WW2.3.2 — As stipulated by the Land Development Code, all development containing irrigated open space greater than twenty acres, including golf courses, shall be required to accept reclaimed water for irrigation when such reclaimed water is available adjacent to the development's boundary. Connection shall be made at the developer's cost. (Added 12/00, Ord. 00-25)~~

~~WW2.3.3 — In accordance with the Reclaimed Water Ordinance, reclaimed water use shall be a condition of all development approvals granted provided that service is available as set forth in Section 37-657 of the Orange County Code. (Added 12/00, Ord. 00-25)~~

~~WW2.3.4 — Orange County shall investigate the feasibility of using a water conserving rate~~

structure for reclaimed water customers.

~~GOAL WW3 Orange County's goal is to develop and maintain a Water Supply Facilities Work Plan and to coordinate with the St. Johns River Water Management District, the South Florida Water Management District, and other local, regional, state, and federal agencies in the implementation of effective traditional and alternative water supply programs, including utilization of reclaimed water sources, and in the implementation of effective linkages between water resource management and growth management in the County.~~

~~OBJ WW3.1 Orange County shall develop and maintain a Water Supply Facilities Work Plan (Work Plan) for at least a 10-year planning period addressing traditional and alternative water supply sources, facilities, and issues necessary to serve existing and future development within the jurisdiction of Orange County.~~

POLICIES

~~WW3.1.1 The Work Plan shall be consistent with the wastewater level of service (LOS) standards established in Policies WW1.2.5, WW1.2.5.1 and WW1.2.6.~~

~~WW3.1.2 The Work Plan shall identify feasible traditional and alternative water supply sources, including reclaimed water and reuse, which the County may use to meet existing and projected water demands.~~

~~WW3.1.3 The Work Plan shall be updated at least every 5 years, but no later than 18 months following adoption of the applicable Water Management Districts' Regional Water Supply Plan updates.~~

~~WW3.1.4 Orange County shall establish and maintain, at a minimum, a current 5-year schedule of capital improvements for the improvement, extension and/or increase in capacity of wastewater and reclaimed water facilities and system components, both capacity and non-capacity related. The schedule of capital improvements for wastewater and reclaimed water facilities shall be updated annually consistent with the Work Plan.~~

~~OBJ WW3.2 Orange County shall identify, investigate, and use any technically, environmentally and economically feasible sources of water and wastewater that may be used to satisfy existing and future water demands when updating or maintaining the Work Plan.~~

POLICIES

~~WW3.2.1 In coordination with the St. Johns River Water Management District, the South Florida Water Management District, and other local governments or private utilities, Orange County shall seek the development of efficient, cost-effective, and technically feasible water sources that will satisfy and supplement future~~

demands, without causing adverse impacts to water quality, wetlands, aquatic systems, or the environment. These sources may include treated wastewater and reclaimed water.

~~WW3.2.2 — Orange County will maximize the use of existing reclaimed water facilities through the implementation of management techniques that can enhance a source of supply, sustain water resources and related natural systems, and optimize water supply yield. Available techniques may include, but are not limited to conservation, reclaimed water reuse and storage, reclaimed water rate increases, system interconnects, and aquifer recharge.~~

~~WW3.2.3 — Orange County shall coordinate with the St. Johns River Water Management District and the South Florida Water Management District, during updates to their Regional Water Supply Plans, to identify potentially feasible alternative water supply projects involving wastewater or reclaimed water sources within the County.~~

~~**OBJ WW3.3 — Orange County shall promote and sustain compatibility between the built and natural systems.**~~

POLICIES

~~WW3.3.1 — Orange County shall coordinate with the St. Johns River Water Management District, the South Florida Water Management District, and other entities to assist with implementation of goals and provisions of the applicable Regional Water Supply Plans, and other local/municipal water resource management and restoration programs, to evaluate the long-term needs of the natural and built environments; to restrict activities that may result in the degradation or over-utilization of potable water and wastewater resources; and to assure adequate water supply for native ecosystems, agriculture, and domestic and industrial users.~~

~~WW3.3.2 — Orange County will integrate growth management, land use and water resources planning to ensure the availability of water for Orange County residents and regional water management purposes.~~

~~**GOAL WW4 — It is Orange County's goal to protect ground and surface water quality within the Wekiva Study Area by using the necessary wastewater treatment processes to help ensure water quality within the Wekiwa Springs system. (Goal 3)**~~

~~**OBJ WW 4.1 — The County shall minimize nitrates and other pollutants that originate from wastewater effluent within the Wekiva River and its tributaries and the springs and spring run creeks in the Wekiva Study Area. (Objective 3.1)**~~

POLICIES

WW4.1.1 In order to help remove nutrients from the Wekiva Springshed, the County will require the central sewerage of existing developed areas through connection to a central system where central sewer is available consistent with the definition in Section 381.0065(a), Florida Statutes. (Policy 3.1.1)

* * *

**Potable Water, Wastewater, and Reclaimed Water Element
Goals, Objectives and Policies**

GOAL WAT1 To provide an efficient and adequate level of water, wastewater, and reclaimed water service and facilities in a cost-effective manner to accommodate existing and future development.

OBJ WAT1.1 Orange County shall consistently monitor for water, wastewater, and reclaimed water system deficiencies. In the event system deficiencies are identified, Orange County shall provide for the correction of these system deficiencies by implementing the following policies.

POLICIES

WAT1.1.1 The Orange County Water, Wastewater and Reclaimed Water Master Plan documents (Master Plan) shall identify and provide for the correction of water, wastewater and reclaimed water system deficiencies.

WAT1.1.2 Orange County shall review the Master Plan every five years, updating when necessary, and shall review and update the Water Supply Facilities Work Plan (Work Plan) within 18 months of the update to the Regional Water Supply Plans (last updated in November 2015) to identify system deficiencies and, if necessary, implement a plan for correction. The Work Plan (Orange County Water Supply Facilities Work Plan, Fiscal Year 2017/2018 to 2027/2028), prepared by the Orange County Utilities Department in conjunction with the Planning Division, is herein adopted, by reference, as data, analysis and supporting documentation for the element.

WAT1.1.3 A Capital Improvements Program, consistent with the Master Plan and Work Plan, shall be prepared annually in order to provide improvements and expansion to the existing Orange County Utilities water, wastewater, and reclaimed water systems to meet or exceed the adopted levels of service as defined in Policies WAT1.2.5 and WAT1.2.6.

WAT1.1.4 Owners of existing package treatment facilities in Orange County, not regulated by the Public Service Commission, are required to adopt a financial plan providing for connection to an area-wide wastewater system

within five years after the date on which the system is available within one-quarter (1/4) mile.

WAT1.1.5 Orange County shall continue to implement the sewer assessment system, which monitors the quality of the gravity and pump functions of the Orange County Utilities wastewater system.

WAT1.1.6 Wastewater treatment package plants in Orange County, not regulated by the Public Service Commission, shall not be expanded to accommodate new or expanded development. This policy shall not preclude the usage of interim wastewater systems constructed for new development approved in accordance with Policy WAT1.2.13.

OBJ WAT1.2 Orange County shall plan for the extension and increase in capacity of central water, wastewater and reclaimed water facilities to meet future needs within the Orange County Utilities Service Area, as required in the Orange County Comprehensive Plan. The term “facilities” shall include supply, treatment, and transmission facilities.

POLICIES

WAT1.2.1 The Water, Wastewater, and Reclaimed Water Master Plan and Work Plan shall be used to prioritize and coordinate the expansion and upgrade of facilities to meet future needs.

WAT1.2.2 Expansion of central water and wastewater facilities shall be based on the demands of projected development in accordance with the adopted level of service standards, the future land use projected in the Comprehensive Plan, and changes in State, Federal and local regulations.

WAT1.2.3 Orange County shall establish and maintain a current five-year Water and Wastewater Facilities Capital Improvements Program for the extension or increase in capacity of water, wastewater and reclaimed water facilities.

WAT1.2.4 The priority of water and wastewater service provision shall be as follows:

- A. Service to existing areas that present an immediate threat to public health or safety, or produce serious pollution problems;
- B. Maintenance or upgrading of the existing water and wastewater systems to meet or exceed the adopted level of service standards and to implement changes in State, Federal and local regulations;
- C. Service to areas that are scheduled to be developed in the near future, as defined in the Capital Improvements Program;
- D. Extension of water or wastewater service to undeveloped areas in the Urban Service Area where other major urban services have been or are being developed simultaneously; and,

E. Expansion into other areas of the Urban Service Area.

WAT1.2.5 When central water service is required for development, the level of service standard shall be as listed in the table below, on an average daily flow basis. 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. These levels of service shall also be applied for planning purposes.

<u>UTILITY NAME</u>	<u>LEVEL OF SERVICE (LOS)</u>
<u>Orange County Utilities</u>	<u>275 gallons per day (gpd)/equivalent residential connection (ERC)</u>
<u>City of Apopka</u>	<u>177 gpd/capita</u>
<u>City of Casselberry</u>	<u>100 gpd/capita</u>
<u>City of Eatonville</u>	<u>100 gpd/capita</u>
<u>Tohopekaliga Water Authority</u>	<u>96 gpd/capita, residential</u> <u>120 gpd/room, hotel/motel</u> <u>0.1 gpd/gross square foot (sqft) of floor area, commercial</u> <u>10 gpd/student, public or private schools</u>
<u>City of Maitland</u>	<u>350 gpd/ERC</u>
<u>City of Mount Dora</u>	<u>135 gpd/capita</u>
<u>Town of Oakland</u>	<u>119 gpd/capita</u>
<u>City of Ocoee</u>	<u>300 gpd/ERC</u>
<u>Winter Park Utilities</u>	<u>150 gpd/capita</u>
<u>City of Winter Garden</u>	<u>350 gpd/ERC</u>

<u>UTILITY NAME</u>	<u>LEVEL OF SERVICE (LOS)</u>
<u>Orlando Utilities Commission</u> <u>Land Use</u> <u>Single-Family Residential</u> <u>Multifamily Residential</u> <u>Office</u> <u>Commercial</u> <u>Hotel</u> <u>Industrial</u> <u>Government</u> <u>Hospital</u>	<u>LOS</u> <u>325 gpd/developable unit (du) without reclaimed or</u> <u>160 gpd/du with reclaimed</u> <u>200 gpd/du</u> <u>0.15 gpd/sqft</u> <u>0.13 gpd/sqft</u> <u>187 gpd/room</u> <u>0.22 gpd/sqft</u> <u>0.15 gpd/sqft</u> <u>0.22 gpd/sqft</u>
<u>Reedy Creek Improvement District</u>	<u>Does not have an adopted LOS per RCID</u>
<u>Central Florida Research Park</u>	<u>Not Available</u>
<u>East Central Florida Services Inc.¹</u>	<u>Not Available</u>
<u>Florida Water Services</u>	<u>Not Available</u>
<u>Lake Ola Homeowners</u>	<u>Not Available</u>
<u>Southern States Utilities</u>	<u>200 gpd/ERC</u>
<u>Wedgfield Utilities Inc.</u>	<u>356 gpd/capita</u>
<u>Zellwood Water Users</u>	<u>Not Available</u>
<p><u>1 This system serves the Deseret Ranch’s pasture and citrus grove irrigation system and homes on ranch property.</u></p> <p><u>NOTE: Orange County Planning Division has distributed surveys to all private and public providers throughout the County in order for the above information to be updated.</u></p>	

WAT1.2.6 When central wastewater service is required for development, the level of service standard shall be as listed in the table below, on an average daily flow basis. Interim wastewater systems (permanent package treatment plants are no longer allowed in Orange County) shall have the same level of service standard. Wastewater 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. These levels of service shall also be applied for planning purposes.

<u>UTILITY NAME</u>	<u>LOS</u>
<u>Orange County Utilities</u>	<u>225 gpd/equivalent residential unit (ERU)</u>
<u>City of Apopka</u>	<u>103 gpd/capita</u>
<u>City of Ocoee</u>	<u>270 gpd/ERU</u>
<u>City of Mount Dora</u>	<u>130 gpd/capita</u>
<u>Park Manor Utilities</u>	<u>230 gpd/ERU</u>
<u>Winter Park Utilities</u>	<u>333 gpd/ERU</u>
<u>City of Winter Garden</u>	<u>Not Available</u>
<u>Reedy Creek Improvement District</u>	<u>Does not have an adopted LOS per RCID</u>
<u>Seminole County Utilities</u>	<u>1 million gpd (UCF campus and Central Florida Research Park)</u>
<u>Florida Water Services</u>	<u>125 gpd/capita</u>
<u>Wedgfield Utilities Inc.</u>	<u>300 gpd/ERU</u>

<u>UTILITY NAME</u>	<u>LOS</u>
<u>City of Orlando</u>	
<u>Land Use</u>	<u>LOS</u>
<u>Single-Family Residential</u>	<u>284 gpd/du</u>
<u>Multifamily Residential</u>	<u>223 gpd/du</u>
<u>Office</u>	<u>0.1 gpd/sqft</u>
<u>Commercial</u>	<u>0.25 gpd/sqft</u>
<u>Industrial</u>	<u>0.15 gpd/sqft</u>
<u>Lodging</u>	<u>150 gpd/room</u>
<u>Government</u>	<u>0.1 gpd/sqft</u>
<u>Hospital</u>	<u>0.25 gpd/sqft</u>
<u>NOTE: Orange County Planning Division has distributed surveys to all private and public providers throughout the County in order for the above information to be updated.</u>	

WAT1.2.7 Orange County Utilities shall ensure that sufficient water supply facility (WSF) and water reclamation facility (WRF) capacity is maintained, consistent with the requirements of the Florida Department of Environmental Protection (FDEP). Orange County Utilities shall adhere to the following capacity-based expansion schedule:

- A. Submit a capacity analysis report to FDEP each year when the WSF maximum daily demand (MDD) exceeds 75% of maximum day water treatment capacity, or when the WRF maximum 3-month average daily flow (ADF) exceeds 50% of the permitted wastewater treatment capacity.
- B. Advertise request for proposals for consultant design services before the WSF MDD or WRF maximum 3-month ADF exceeds 80% of the permitted treatment capacity.
- C. Begin final design of expansion before the WSF MDD or WRF maximum 3-month ADF exceeds 85% of the permitted treatment capacity.
- D. Begin construction of the facility expansion before the WSF MDD or WRF maximum 3-month ADF exceeds 90% of the permitted treatment capacity.

Facilities scheduled for design and construction, as identified by the capacity analysis report, shall be considered for inclusion into the Capital Improvements Program. Facilities approaching build out shall be exempt from this requirement.

- WAT1.2.8 Connections to the potable water, wastewater, and reclaimed water systems shall be allowed only where capacity is available. Potable water system capacity shall include minimum fire flow requirements pursuant to Orange County Code.
- WAT1.2.9 Extension of water, wastewater, and reclaimed water transmission facilities from the existing central system to a development shall be provided at the developer's cost.
- WAT1.2.10 If an interim water system is approved a plan for connection to the nearest central water system and financing of the tie-in must be approved by the utility having jurisdiction.
- WAT1.2.11 If an interim wastewater system is approved, the following requirements shall be met:
- A. A plan for connection to the nearest central wastewater system and financing of the tie-in must be approved by the utility having jurisdiction;
- B. Normal connection fees associated with the connection to the central wastewater system must be paid in accordance with applicable resolutions and ordinances, and prior to construction plan approval for the development the interim system is proposed to serve; and
- C. Construction of dry lines may be required.
- WAT1.2.12 The water capacity demand charges for a connection shall be based on equivalent residential connections. The wastewater capacity demand charges for a connection shall be based on equivalent residential units.
- WAT1.2.13 Connection fees may cover up to 100 percent of the total cost of the needed water, wastewater and reclaimed water system expansions. User fees shall cover the full cost of operating and maintaining the water, wastewater and reclaimed water systems, including debt service.
- WAT1.2.14 Public and approved private water, wastewater and reclaimed water systems in Orange County shall be self-supporting and shall not use ad valorem taxation for maintenance and operation.
- WAT1.2.15 Orange County shall continue to participate in the regional water supply planning efforts of the St. Johns River Water Management District and the South Florida Water Management District to establish and implement

efficient and cost-effective public water supply plans for the region, without creating significant adverse impacts to natural systems.

OBJ WAT1.3 Orange County shall maximize the use of existing potable water, wastewater and reclaimed water facilities and available capacity through the implementation of appropriate technology and management strategies for enhancing water supply and reducing demand, including traditional and alternative water supply options, conservation and reuse.

WAT1.3.1 The shift to new technologies and operational procedures, including expanded conservation programs, water, wastewater and reclaimed water rate increases, system interconnections and alternative water supply options such as reclaimed water reuse and storage, shall occur as they become technically and economically feasible.

WAT1.3.2 The Orange County Utilities Department shall monitor and maintain the current Supervisory Control and Data Acquisition (SCADA) system utilizing recent technologies available to Orange County.

WAT1.3.3 The County shall actively participate in the development of innovative water and wastewater programs which protect and conserve Orange County's water resources.

WAT1.3.4 Orange County shall continue to monitor and reduce the influence, collection, and treatment of unwanted water entering the wastewater system from infiltration and inflow, combined sewer overflow, stormwater and unaccounted wastewater and remediate system deficiencies.

WAT1.3.5 The Orange County Utilities Department shall implement and maintain a system of metering for its reclaimed water customer connections, and shall continue to require individual metering of reclaimed water connections to single-family detached residential customers on public streets.

OBJ WAT1.4 Water, wastewater and reclaimed water facility plans and programs shall be designed to be consistent with the Future Land Use Element and to avoid urban sprawl.

WAT1.4.1 Water, wastewater, and reclaimed water facility plans and programs shall be designed and coordinated in a manner which will support the Urban Service Area growth management concept.

WAT1.4.2 Future growth at urban densities or intensities shall be located in areas which have existing or planned potable water and wastewater capacity.

WAT1.4.3 Potable water service and central wastewater service shall not be extended to areas outside the Urban Service Area except in one or more of the following circumstances:

- A. The facilities to be extended will serve a Growth Center, exception areas within Specific Area Plan (SAP) boundaries, or other exception areas as provided in the Comprehensive Plan;
- B. The Board of County Commissioners has made an affirmative finding that a public health hazard exists for existing development. Such facilities shall not serve as the basis for additional new development;
- C. The potable water facilities are to be extended to provide adequate fire flows to existing developments which are located within one-half (1/2) mile of an existing water transmission main;
- D. For approved sector plans as provided for in the Comprehensive Plan;
or
- E. The circumstances described under Policies WAT1.5.2, WAT1.5.3 or WAT1.6.2 herein.

This policy is not intended to preclude the use of conservation or rural areas for potable water withdrawal facilities, water treatment facilities, wastewater treatment facilities, or interconnections of the overall water or wastewater system.

WAT1.4.4 When it has been determined the extension of potable water facilities into the Rural Service Area is necessary, such existence or planned extension of potable water mains facilities shall not be construed as adequate justification for development at urban intensities in the Rural Service Area. Transmission mains that will service such rural areas shall be sized to provide domestic flow to satisfy existing land use including the provision of adequate fire flow.

WAT1.4.5 Development approvals should be granted by the Orange County Board of County Commissioners only when fire flows meet or exceed the requirements of County Subdivision Regulations, Commercial Site Plan Regulations and amendments thereto. Minimum fire flows and pressure requirements must be available to the development site prior to issuance of Certificates of Occupancy.

OBJ WAT1.5 In the interest of maintaining adequate potable water quality for Rural Settlements, the new construction or extension of central water systems serving Rural Settlements shall be approved by the Board of County Commissioners on a case-by-case basis consistent with the Comprehensive Plan.

WAT1.5.1 Existing potable water facilities serving Rural Settlements shall not be used as a reason to increase allowable densities in the Rural Settlements.

WAT1.5.2 When the provision of central water facilities for a Rural Settlement(s) is proposed, the Board of County Commissioners shall approve such a proposal(s) only when the Board makes two findings. First, the Board shall

make a finding of need of central water facilities for the particular Rural Settlement. Second, the Board shall make a finding of consistency with the Comprehensive Plan, including the policies of the Potable Water, Wastewater and Reclaimed Water and Future Land Use Elements.

WAT1.5.3 The Board of County Commissioners has made an affirmative finding that the extension of potable water facilities is required to remediate health and safety concerns in the Bithlo Rural Settlement. In order to address the concern for public health in this area, the following conditions apply to the potable water system expansion to the Bithlo Rural Settlement:

A. The extended utility lines shall be used only by vested development within the Bithlo Rural Settlement.

B. The extended utility lines shall not be a justification or basis for approving new development.

C. The utility lines shall not be used for any new non-vested development beyond one unit per acre in the Bithlo Rural Settlement.

D. Non-vested development shall not be allowed to connect to the extended utility lines until a sector plan is approved.

OBJ WAT1.6 In the interest of preserving the rural character and sense of place in Rural Settlements, the construction or extension of central wastewater systems serving Rural Settlements shall be limited.

WAT1.6.1 Existing wastewater facilities serving Rural Settlements shall not be used as a basis to increase allowable densities in the Rural Settlements. This policy is not intended to preclude the use of conservation or rural areas for treatment facilities.

WAT1.6.2 New central wastewater facilities shall not be constructed and existing facilities shall not be expanded to serve Rural Settlements except under the following circumstances:

A. The Board of County Commissioners has made an affirmative finding that the facilities are necessary to support existing future land use designations on the adopted Future Land Use (FLU) map consistent with Future Land Use Objective FLU6.2. The future land use designations referenced in this policy are those reflected on the adopted FLU map as of the date of adoption of this policy. Facility expansion under this policy must be incorporated into Orange County's five-year Capital Improvements Program (CIP); or

B. The Rural Settlement has experienced a State documented economic decline as a result of the loss of a major area employer. The central wastewater facilities may be expanded for the purpose of revitalizing the area by attracting new commercial and industrial businesses and offering incentives to existing businesses to remain in the area. This

policy shall apply only to the Zellwood Rural Settlement, consistent with the Future Land Use Element.

C. The Board of County Commissioners has made an affirmative finding that the facilities are necessary and available to remedy or prevent contamination of ground or surface water within the Wekiva Study Area.

D. The provision of wastewater services to a school located in a Rural Settlement is also subject to FLU8.7.8.

WAT1.6.3 The existence or new construction of wastewater facilities within the boundary of a Rural Settlement for the purpose of interconnecting (looping) to the wastewater system outside the boundary of a Rural Settlement shall not be the sole basis for existing development in a Rural Settlement to connect to the wastewater system.

OBJ WAT1.7 Orange County shall continue to coordinate with municipal and private water and wastewater agencies to assist in preventing fragmentation, duplication of effort, overlapping jurisdictions and excessive costs.

WAT1.7.1 Orange County shall continue to enter into territorial/joint planning agreements with adjacent municipalities, counties and other utilities regulated by the Public Service Commission in order to encourage cost-effective service to avoid unnecessary duplication in the provision of water and wastewater services, to describe the location of each utility's service area, and to coordinate and confirm the associated service provision commitments. Priorities for the extension of services by these other providers are referenced in the territorial/joint planning area agreements.

WAT1.7.2 Orange County shall continue to pursue alternative funding sources and participate with other localities in order to plan and construct water and wastewater systems.

OBJ WAT1.8 Orange County shall continue to implement its program to eliminate the amount of unaccounted-for water.

WAT1.8.1 User fees shall be evaluated to ensure funds are available to fund programs to reduce unaccounted water loss.

WAT1.8.2 Orange County shall continue requiring potable water consumption to be metered for residential and non-residential uses to ensure accountability of water consumption.

WAT1.8.3 Orange County shall continue to conduct water audits for its system's potable water transmission and distribution lines to determine pipe quality. The results of the audits shall be considered by the Utilities Department when prioritizing projects for incorporation into the Capital Improvements Program (CIP).

OBJ WAT1.9 Orange County shall provide an adequate level of potable water, wastewater and reclaimed water services and facilities to development within the unincorporated area in a cost-effective manner.

WAT1.9.1 Connection fees shall supplement the total cost of all necessary public potable water, wastewater and reclaimed water system expansions.

WAT1.9.2 User fees shall cover the full cost of operating and maintaining the potable water, wastewater and reclaimed water systems, including debt service.

GOAL WAT2 To provide water, wastewater and reclaimed water service and facilities which are environmentally sound, promote water conservation and reclaimed water reuse, and protect the quality of the water supply.

OBJ WAT2.1 Orange County water well regulations and policies shall be enforced, and if necessary amended, to prevent or mitigate adverse environmental impacts and eliminate health hazards.

WAT2.1.1 The Florida Department of Health Orange County Public Health Unit shall not permit water wells for future development that are inconsistent with the Comprehensive Plan.

WAT2.1.2 Orange County shall allow the use of private wells for potable water use for development only in areas where central water service is not available.

WAT2.1.3 New development in the Urban Service Area shall be connected to a central water system. The waiver of this requirement to permit the use of wells should only be considered pursuant to Policy WAT2.1.2. Such wells shall be approved on an interim basis only.

WAT2.1.4 Developments with interim wells, approved by the Board of County Commissioners pursuant to Policy WAT2.1.3, shall be required to connect to central water systems at the property owner's expense within one year from the date of notification by Orange County that such central water facilities are available within the stipulated distances approved by the Board of County Commissioners at the time the interim wells were permitted.

WAT2.1.5 Orange County has developed and shall continue to maintain cross connection control and wellhead protection programs in accordance with State, Federal and local guidelines.

WAT2.1.6 Orange County shall continue to monitor the drawdown of wellfields of Orange County Utilities in order to prevent adverse impacts to adjacent natural resources.

WAT2.1.7 In the interest of protecting potable water wellfields, Orange County shall continue to implement its Small Quantity Generator Notification Program pursuant to Chapter 403, Florida Statutes, Chapter 62-730 FAC, and Rule 62-731.030, FAC. Orange County shall also continue to comply with the State's Wellhead Protection regulations in Chapter 62-521, FAC.

WAT2.1.8 Orange County shall maintain Geographic Information Systems (GIS) maps reflecting the location of drainage wells that could have an adverse impact on groundwater.

WAT2.1.9 A zone of protection area of 500 feet in radius from each public potable water well in the unincorporated area shall be considered the wellfield protection zone. The first 200 foot radius closest to the well shall be a zone of exclusion, where no regulated businesses which are hazardous waste generators monitored by Orange County Environmental Protection Division's Pollution Prevention and Control Program—will be permitted except those related to water supply provision. Within the remainder of the zone of protection, land uses shall be regulated to prohibit the following:

A. Landfills;

B. Activities that require the storage, use or transportation of restricted substances on the Resource Conservation and Recovery Act's or the Environmental Protection Agency hazardous wastes lists;

C. Feedlots or other commercial animal facilities;

D. Wastewater treatment plants and their ancillary facilities;

E. Mines; and,

F. Excavation of waterways, borrow pits or drainage facilities that intersect the water table.

OBJ WAT2.2 **Orange County septic tank regulations and policies shall be enforced, and if necessary amended, to prevent or mitigate adverse environmental impacts and eliminate health hazards.**

WAT2.2.1 New development in the Urban Service Area shall be connected to central wastewater systems. The waiver of this requirement to permit the use of interim septic tanks should only be considered pursuant to Policy WAT2.2.5.

WAT2.2.2 The Florida Department of Health Orange County Public Health Unit shall not issue permits for septic tanks, which are inconsistent with the criteria established in the Comprehensive Plan.

WAT2.2.3 The Health and Rehabilitative Services Orange County Public Health Unit shall continue to implement its Septic Tank Monitoring Program to ensure the effectiveness of operation, and to reduce the potential for health hazards.

Orange County requires repair permits be obtained from the Health Department prior to any repairs to failed septic tank systems.

WAT2.2.4 The use of elevated septic tanks and drainfield systems shall only be allowed on lots of 1/2 acre or larger in order to provide a more balanced ecological and aesthetic approach to new development.

WAT2.2.5 Orange County shall allow the use of interim septic tanks for development only in areas of suitable soils and when central wastewater services are not available. Where there are moderate soils, Orange County may allow the use of interim septic tanks based on detailed soil and site analysis so that ground or surface waters will not be polluted. Specific septic tank criteria shall be governed by the Orange County Subdivision Regulations or supplemental guidelines adopted under the proposed Land Development Code, as well as the requirements established in Chapter 64E-6 of the Florida Administrative Code.

WAT2.2.6 When it has been determined by the Board of County Commissioners that the application of Policy WAT2.2.5 will result in substantial environmental impact to the subject or abutting property, the Board may limit the density of the development. Substantial environmental impact shall be determined by one or more of the following:

- A. Total clearing of on-site vegetation or placement of fill material which results in the substantial destruction of the natural vegetation;
- B. Inability to meet stormwater management criteria set forth in the Orange County Subdivision Regulations or commercial site plans regulations; and,
- C. Degradation or contamination of surface water or groundwater.

WAT2.2.7 Interim septic tank system(s) approved by the Board of County Commissioners following Policy WAT2.2.1 are required to connect to central sewer systems at the property owner's expense within one (1) year from the date of notification that such central sewer facilities are available within the stipulated distances approved by the Board of County Commissioners at the time the interim septic tank system(s) was permitted.

OBJ WAT2.3 Orange County shall support the use of innovative potable water conservation techniques and strategies, and will conserve water resources through coordination with the St. Johns River Water Management District and South Florida Water Management District and implementation of Orange County and other agency programs.

WAT2.3.1 Orange County shall continue to support and assist the Water Management Districts in implementing the development of a County-wide consumptive use study program utilizing water use projections and ground water modeling to monitor the effects of withdrawals from the Floridan Aquifer.

- WAT2.3.2 Orange County shall continue to implement its Water Conservation Program and require the installation of products that minimize the demand for water in all new developments as stipulated in Orange County's Plumbing Code.
- WAT2.3.3 Orange County shall coordinate with Water Management Districts to monitor the drilling of new wells, enforce the capping of abandoned wells, and require the placement of valves on existing free flowing wells so water will be used only as required. It is not the intent of this policy to affect agricultural production or agricultural processing.
- WAT2.3.4 Orange County shall coordinate with the Water Management Districts to monitor the amount of groundwater pumped from the aquifer underlying Orange County that is distributed for use outside the County; and, if necessary, assist in the emergency conservation of groundwater.
- WAT2.3.5 Orange County shall encourage municipalities, counties, and private entities, which export water, underlying Orange County to use other sources of potable water and/or use water conservation measures. Such encouragement shall be by providing technical assistance and participating in studies conducted by the Water Management Districts.
- WAT2.3.6 Orange County shall continue to implement its educational programs to promote a safe maximum withdrawal rate from the aquifer. The educational programs include conservation techniques that can be used by homeowners and information regarding leak detection.
- WAT2.3.7 Orange County shall provide potable water in compliance with Environmental Protection Agency and Florida Department of Environmental Protection's safe drinking water standards.
- WAT2.3.8 Orange County shall continue to investigate all feasible techniques for the use of reclaimed water. Orange County shall seek out opportunities to use reclaimed water for uses such as irrigation, groundwater recharge, industrial purposes, and agricultural purposes.
- WAT2.3.9 As stipulated in the O.C. Code Section 37-4(a)(3), all development containing irrigated open space shall be required to accept reclaimed water for irrigation when such reclaimed water is available. Connection shall be made at the developer's cost.
- WAT2.3.10 Orange County shall participate in voluntary and mandatory water restrictions established by the Water Management Districts. This shall include limiting the irrigation of landscaping with potable water on public property to the hours specified in the restrictions.

WAT2.3.11 Orange County shall continue to provide incentives and enforce regulations requiring water efficient Florida friendly landscaping techniques, to reduce the irrigation demand for potable water in new developments.

WAT2.3.12 Orange County shall continue to implement its water conservation and shortage regulations. In addition, the Code requires that during such times as either the St. Johns River Water Management District or the South Florida Water Management District declares a potable water shortage, the specific restrictions imposed by the applicable water management district that are more restrictive than the regulations of Section 37-601 of the Orange County Code shall apply.

WAT2.3.13 Pursuant to Chapter 373.609, FS, Orange County shall, upon request, assist the Water Management Districts in the enforcement of Water Management District guidelines during declared potable water shortages.

OBJ WAT2.4 **All Orange County wastewater treatment facilities shall be designed and monitored to prevent adverse environmental impacts and eliminate health hazards.**

WAT2.4.1 Orange County shall continue to meet or exceed all Federal and State wastewater facility regulations, which provide for the protection of the environment.

OBJ WAT2.5 **All Orange County regulations for reclaimed water shall be enforced to prevent adverse environmental impacts and promote the conservation of natural resources.**

WAT2.5.1 Orange County shall continue to investigate, coordinate and promote feasible techniques and applications for the beneficial use of reclaimed water.

WAT2.5.2 As stipulated in Section 37 of the Orange County Code, all development containing irrigated open space greater than twenty acres, including golf courses, shall be required to accept reclaimed water for irrigation when such reclaimed water is available. Connection shall be made at the developer's cost.

WAT2.5.3 In accordance with Section 37 of the Orange County Code, reclaimed water use shall be a condition of all development approvals granted, provided that service is available as set forth in Section 37-4 of the Orange County Code.

WAT2.5.4 Orange County shall investigate the feasibility of using a water-conserving rate structure for reclaimed water customers.

GOAL WAT3 **Develop and maintain a Water Supply Facilities Work Plan and to coordinate with the St. Johns River Water Management District, the**

South Florida Water Management District, and other local, regional, state, and federal agencies, as well as other municipal or private suppliers of water and wastewater services, in the implementation of effective traditional and alternative water supply programs, including utilization of reclaimed water sources, and in the implementation of effective linkages between water resource management and growth management in Orange County.

OBJ WAT3.1 Orange County shall develop and maintain a Water Supply Facilities Work Plan (Work Plan) for at least a 10-year planning period addressing traditional and alternative water supply sources, facilities, and issues necessary to serve existing and future development within the jurisdiction of Orange County.

The Work Plan shall be based on a long term strategy that incorporates the following components:

- Continue to implement and expand effective water conservation measures
- Increase rates for potable and non-potable water used for irrigation to encourage greater conservation
- Optimize the efficient use of fresh groundwater from the Floridan aquifer
- Interconnect systems to create regional flexibilities and efficiencies
- Maximize the beneficial use of reclaimed water
- Continue aquifer recharge projects in areas of greatest benefit
- Expand reuse distribution facilities for irrigation and other beneficial uses
- Continue to develop additional alternative water supply sources such as surface water for potable supply and non-potable augmentation
- Investigate additional management and supply options such as reservoir storage, and stormwater reuse
- Utilize aquifer storage and recovery for supply management.

WAT3.1.1 The Water Supply Facilities Work Plan shall be consistent with the potable water and wastewater level-of-service (LOS) standards established in Policies WAT1.2.5 and WAT1.2.6.

WAT3.1.2 The Water Supply Facilities Work Plan shall identify feasible traditional and alternative water supply sources, including water conservation, water rate increases, system interconnections, and reclaimed water and reuse, that Orange County will use to meet existing and projected water demands. The alternative water supply projects delineated in the Work Plan shall be

selected from the Regional Water Supply Plans adopted or approved by the St. Johns River Water Management District and/or South Florida Water Management District, or otherwise proposed by the County.

WAT3.1.3 The Water Supply Facilities Work Plan shall be updated no later than 18 months following adoption of the applicable Water Management Districts' Regional Water Supply Plan updates, as referenced in WAT 1.1.2.

WAT3.1.4 The Water Supply Facilities Work Plan, together with Orange County's Master Plan, shall be used to prioritize and coordinate the expansion and improvement of facilities used to withdraw, transmit, treat, store and distribute potable water to meet current and future needs within Orange County Utilities service areas.

WAT3.1.5 Orange County shall establish and maintain, at a minimum, a current 5-year schedule of capital improvements for the improvement, extension and/or increase in capacity of traditional water supply, alternative water supply, wastewater and reclaimed water facilities and system components, both capacity and non-capacity related. The schedule of capital improvements shall be updated annually consistent with the Water Supply Facilities Work Plan.

WAT3.1.6 Orange County's capacity related strategy and capital improvement projects for traditional water supply facilities are summarized below consistent with the Work Plan. These projects and project components, including estimated costs and funding sources, are adopted in the Capital Improvements Element as part of the 5-year schedule of capital improvements. Project numbers are listed as appropriate for cross reference to Index by Financial Unit in the capital improvements schedule.

- Oak Meadows Wellfield Expansion (Permitted Well OM-5), currently in the construction phase, includes one new Lower Floridan aquifer well at the facility with a capacity of 1.8 mgd, AADF. This well is planned for completion by 2017. (West Service Area, CIS 1532-14)
- Western Regional WSF/Wellfield Phase IIIB Expansion, currently in design and planned for completion by 2023, may increase treatment capacity by another 7.0 mgd, AADF and involves one new Lower Floridan aquifer well (well WR-11, already permitted) with a capacity of 2.2 mgd, AADF, to be completed by 2018. (West Service Area, CIS 1532)
- Malcolm Road WSF/Wellfield, currently in design (treatment facility) and construction (wells), includes a new treatment plant and Floridan aquifer wellfield, each with capacity of 4.0 mgd, AADF. Wells are planned for completion by 2017, and treatment plant by 2019. (Southwest Service Area, CIS 1557)

- Eastern Regional WSF Phase IIIB Expansion, with final design and construction planned for completion in September 2017 and February 2020, respectively, increases treatment capacity from 50 mgd to 62.4 mgd AADF. (East Service Area, CIS 1554-02)
- East Service Area-South Service Area Water Transmission Main Interconnection, planned to be constructed by 2019, will increase system flexibility and reliability. (CIS 1450 and 1508)
- I-Drive Booster Pump Station, currently in the construction phase and planned for completion in 2018, will eventually transmit water from the Cypress Lake brackish groundwater AWS project. (CIS 1498-10).

WAT3.1.7

Development of Orange County's reclaimed water system is a critical component of the County's water supply strategy. Orange County's capacity-related strategy and capital improvements projects for water reclamation and reuse facilities are summarized below consistent with the Work Plan. These projects and project components, including estimated costs and funding sources, are adopted in Orange County's Capital Improvements Element as part of the 5-year schedule of capital improvements. Project numbers are listed as appropriate for cross reference to Index by Financial Unit in the capital improvements schedule.

- Northwest WRF Phase IIIB Expansion, planned to be constructed by 2025, will increase the capacity of the chlorine contact chamber, increasing the overall treatment capacity of the facility by 1.0 mgd, AADF. (West Service Area, CIS 1435)
- Northwest WRF Reclaimed Main Extension to Apopka, planned to be constructed by 2022, and expected to add 2.5 mgd to 3.0 mgd, AADF to the existing capacity of the reuse system in the West Service Area., (West Service Area, CIS 1435)
- Southwest WRF Phase I, planned to be constructed by 2025, for a total treatment capacity of 5.0 mgd, AADF. Further phases are planned to provide additional capacity and to receive flow diversion from the South Service Area. (Southwest Service Area, CIS 1507)
- South WRF Phase V Expansion, planned completion of March 2019, will increase treatment capacity by 13 mgd from 43.0 to 56.0 mgd, AADF. (South Service Area, CIS 1555-01)
- Eastern WRF Phase V Improvements, planned for completion by May 2018, will increase treatment capacity from 19.0 to 24.0 mgd, AADF. (East Service Area, CIS 1538)
- Eastern WRF Phase VI Expansion, planned to be completed by 2027, will increase treatment capacity from 24.0 to 29.0 mgd, AADF. (East Service Area, CIS 1538)
- Southeast Reclaimed Water System Expansion Project, will be constructed throughout the planning horizon to distribute reclaimed

water to meet reuse irrigation demands in the East Service Area, estimated to be as much as 9 mgd, AADF by 2020. (CIS 1483, CUP #3317 Condition 26)

WAT3.1.8 Development of alternative water supply projects is a critical component of Orange County's water supply strategy and necessary to meet future water demands. Orange County's alternative water supply projects including surface water capital improvement projects are summarized below consistent with the Work Plan. These projects and project components, including estimated costs and funding sources are adopted in the County's Capital Improvements Element as part of the 5-year schedule of capital improvements. Project numbers are listed as appropriate for cross reference to Index by Financial Unit in the capital improvements schedule.

- Cypress Lake Wellfield, a collaborative AWS STOPR project, will provide OCU with a 9 mgd, AADF finished water potable supply capacity increase. Construction of this project is currently projected to be completed by approximately 2023. (CIS 1550-08, CFWI RWSP Projects 3, 4 and 5).
- St. Johns River/Taylor Creek Reservoir Water Supply Project, an estimated 50 mgd, AADF surface water potable supply project in 2030 (CIS 1550; CUP #3317 Condition 23; WUP # 48-00134-W Condition 25; CFWI RWSP Project 126), peak production of 54 mgd finished water. OCU is participating collaboratively in this regional water supply development project with five other central Florida potable water suppliers: OUC, East Central Florida Services, and Tohopekaliga Water Authority (who all provide some water in unincorporated Orange County); and the City of Cocoa and City of Titusville. The exact supply volume distribution among suppliers is yet to be finalized, but it is anticipated that OCU's share would be at least 10 mgd, AADF.

OBJ WAT 3.2 Orange County shall identify, investigate and use any technically, environmentally and economically feasible traditional or alternative sources of water, including reclaimed water, that may be used to meet existing and future water demands when updating or maintaining the Work Plan.

WAT3.2.1 In conjunction or coordination with the St. Johns River Water Management District, the South Florida Water Management District, and other local governments or private utilities, Orange County shall seek the development of efficient, cost-effective, and technically feasible water sources that will satisfy existing and future demands, without causing adverse impacts to water quality, wetlands, aquatic systems or the environment. These sources may include, but are not limited to, fresh groundwater, treated wastewater, reclaimed water, stormwater, brackish groundwater, surface water and seawater. In addition, Orange County will proactively investigate the

application of new water resource development technologies to meet existing and future water demand.

WAT3.2.2 Orange County will maximize the efficient use of existing potable water and reclaimed water facilities through the implementation of management techniques that can enhance a source of supply, sustain water resources and related natural systems, and optimize water supply yield. Available techniques may include, but are not limited to, water conservation, potable water and reclaimed water rate increases, non-potable water reuse, system interconnects, aquifer recharge, and storage.

WAT3.2.3 Orange County shall coordinate, cooperate and participate with utility providers in the region and the water management districts in the development and update of local and regional water supply plans and assessments. In addition, Orange County will continue to collaborate and jointly develop interconnected sources and facilities to consolidate water services and to improve efficiencies that will support and enable Orange County to perform and implement an effective water supply program.

WAT3.2.4 Orange County will coordinate with the City of Orlando to evaluate improvements and expansion of the Water Conserv II regional reuse system to support the Master Plan recommendations and other City of Orlando plans.

OBJ WAT3.3 Orange County shall promote and sustain compatibility between the built and natural systems.

WAT3.3.1 Orange County shall coordinate with the St. Johns River Water Management District, the South Florida Water Management District, and other entities to assist with implementation of goals and provisions of the applicable Regional Water Supply Plans and other local/municipal water resource management and restoration programs, to evaluate the long-term needs of the natural and built environments, to restrict activities that may result in the degradation or over-utilization of potable water, treated wastewater and reclaimed water resources, and to assure adequate water supply for the competing needs of native ecosystems, agriculture, and domestic and industrial users.

WAT3.3.2 Orange County shall work with the Water Management Districts, during updates to their Regional Water Supply Plans, to identify potentially feasible alternative water supply projects, including those involving treated wastewater or reclaimed water sources within Orange County.

WAT3.3.3 Orange County will integrate growth management, land use and water resource planning to ensure the availability of water for Orange County residents and regional water management purposes.

GOAL WAT4 **It is Orange County’s goal to protect ground and surface water quality within the Wekiva Study Area by using the necessary wastewater treatment processes to help ensure water quality within the Wekiwa Springs system.**

OBJ WAT4.1 Within the Wekiva River and its tributaries, the springs, and spring run creeks in the Wekiva Study Area, Orange County shall minimize nitrates and other pollutants that originate from wastewater effluent within the Wekiva River and its tributaries and the springs and spring run creeks in the Wekiva Study Area.

WAT4.1.1 In order to help remove nutrients from the Wekiva Springshed, Orange County will require the central sewerage of existing developed areas through connection to a central system where central sewer is available as defined in Section 381.0065(2)(a), Florida Statutes.

WAT4.1.2 The County shall comply with the wastewater requirements that are identified in the approved Wekiva Basin Action Management Plan.

WAT4.1.3 Orange County shall cooperate with other wastewater service providers to jointly address ground and surface water nutrient loading issues within the Wekiva Study Area. Such efforts shall address water quality throughout the entire basin comprehensively, not only on a site specific basis, and shall aim to leverage limited resources and take advantage of economies of scale. These efforts are contained in the Wekiva Protection Act Facilities Plan, which is hereby adopted by reference and incorporated in the Comprehensive Plan. The objective of the plan includes:

- Delineation of area within the utility service area that are to be served by central facilities within 5 years;
- Delineation of areas where central wastewater systems are not readily available;
- A financially feasible schedule of improvements;
- An infrastructure work plan to build the facilities needed to implement the facilities plan, including those needed to meet enhanced treatment standards adopted by FDEP;
- A phase-out of onsite septic tank systems where central facilities are available;
- A long-range component addressing service of the joint planning area utility service area; and
- Monitoring of existing central systems.

* * *

**Aquifer Recharge Element
Goals, Objectives and Policies**

* * *

OBJ AR1.1 Orange County shall continue to implement, on an ongoing basis, existing programs such as the CONSERV II program, the Rapid Infiltration Basins, ~~the septic tank monitoring program,~~ the County Landfill monitoring program, and the monitoring of aquifer water levels across the County. ~~review of the United States Geological Survey's potentiometric monitoring program and continue to participate in the interlocal agreement that pertains to the Drainwell Modification Study.~~ Additional programs to protect the water quality and quantity in the aquifers and enhance aquifer recharge, shall be pursued and established on an ongoing basis, including development criteria in the Land Development Code. (Added 12/00, Ord. 00-25, Objective 1.1-r)

POLICIES

AR1.1.1 In order to monitor the quantity of groundwater in the surficial aquifer and Floridan Aquifer, Orange County shall continue to perform ongoing collection and annually review of aquifer water levels across the County. ~~the findings of the United States Geological Survey's potentiometric contour monitoring program.~~ (Added 12/00, Ord. 00-25, Policy 1.1.1)

* * *

AR1.1.3 ~~The Land Development Code shall contain a definition and a map of areas of aquifer vulnerability in Orange County. As provided in Policy FLU1.11.9, the~~ The County shall update the Land Development Regulations to limit with appropriate standards or prohibit land uses with the potential to contaminate or harm the aquifer. (Added 12/00, Ord. 00-25, Policy 1.1.3-r)

AR1.1.4 Orange County shall, ~~by 2012~~ update and refine the Wekiva Aquifer Vulnerability Assessment (WAVA) to improve accuracy and apply county-wide. Upon adoption, the WAVA shall replace the existing data sets for determinations of aquifer vulnerability and similar assessments may be required in the Comprehensive Plan and Land Development Regulations. (Amended 2009 Policy 1.1.4)

AR1.1.5 Orange County, with the cooperation of the Water Management Districts, has developed a recharge map ~~amp~~ of the areas of no recharge, very low recharge, very low to moderate recharge and high to very high aquifer recharge. Best management practices (BMPs) as identified in Policy AR1.1.14 shall be required to maximize and maintain recharge volumes. (Added 12/00, Ord. 00-25, Policy 1.1.4-r)

AR1.1.6 If requested, Orange County shall assist ~~as requested~~ the water management districts with preparation of a report detailing the impacts of industrial,

commercial, office, residential and agricultural land uses on recharge areas and land surrounding Outstanding Florida Waters, which may be based on the conclusions of available studies completed by other agencies. The County's Land Development Code criteria regulating and/or prohibiting land uses in these areas shall be revised at the conclusion of this study, as needed. (Added 12/00, Ord. 00-25, Policy 1.1.5)

AR1.1.7 ~~RESERVED~~ ~~The Land Development Code shall include regulations/criteria for determining the aquifer recharge potential of a site during the development review stage. (Policy 1.1.6)~~

* * *

AR1.1.9 ~~RESERVED~~ ~~Aquifer recharge areas typically comprise Hydrologic Soil Group Type "A," as indicated on the Soil Survey Map for the County prepared by the USDA Soil Conservation Service. Regulations shall be adopted as part of the Land Development Code require a detailed soils report prepared by a geotechnical engineer to be submitted to the County prior to site development plan approval if such soils exist on site. If the site is determined to be within a high recharge area, retention of the total runoff generated by a 25 year frequency, 24 hour duration storm event from the developed site will be required. (Added 8/92, Ord. 92-24, Added 12/00, Ord. 00-25, Policy 1.1.7.1-r)~~

* * *

AR1.1.11 ~~RESERVED~~ ~~Orange County shall provide technical assistance to the Water Management Districts and United States Geological Survey for the purposes of researching the impacts of impervious surface ratios and land development on the natural rate of aquifer recharge, and preparing Groundwater Basin Resource Availability Inventories. The Land Development Code criteria regulating land uses in these areas shall be reassessed at the conclusion of these studies. (Policy 1.1.9)~~

AR1.1.12 Orange County will continue to implement the aquifer artificial recharge program of CONSERV II using rapid infiltration basins (RIBS) and irrigation of citrus groves, golf courses, and open space in high recharge areas [approximately 44 million gallons per day (MGD) in prime recharge areas of West Orange County]. In addition, the County will continue to expand aquifer artificial recharge through Public Access Reuse (PAR) to the City of Ocoee and the City of Apopka in addition to the RIBs and lake augmentation in the Orange County Utilities (OCU) Northwest Service Area (approximately 5 MGD) which includes the construction of a new RIB (Old Winter Garden Road aquifer recharge project) and additional recharge projects in OCU West Service Area. (Added 8/92, Ord. 92-24, Policy 1.1.9.1-r)

* * *

AR1.1.14 Orange County shall use best management practices and performance standards to maximize open space, limit impervious surfaces, promote protection of natural vegetation, buffer karst sensitive areas, maximize recharge volumes, and treat recharge stormwater to protect groundwater quality. Such practices and standards shall be included in the Land Development Code by January 1, 2007. (Added 12/07, Ord. 07-20, Policy 1.1.11)

OBJ AR1.2 Orange County shall coordinate with other governmental entities regarding groundwater pollution and supply through the establishment or continuation of programs and technical assistance, as identified in the following policies. (Objective 1.2)

POLICIES

AR1.2.1 ~~RESERVED (Refer to ICE1.6.8) Orange County shall provide technical assistance as requested the St. Johns River and South Florida water management districts for the preparation and completion of Needs and Sources Inventories. (Added 12/00, Ord. 00-25, Policy 1.2.1)~~

AR1.2.2 Orange County shall continue to coordinate with other local and State governmental entities in regards to ~~monitor~~ septic tanks in industrial zoned developments. ~~This program shall provide for the investigation of suspected or reported improperly installed or malfunctioning septic tanks that could contaminate surface water or groundwater. program to eliminate any identified adverse effects of contamination.~~ (Policy 1.2.2)

AR1.2.3 ~~RESERVED (Refer to ICE1.6.5) Orange County shall cooperate with and provide technical assistance to all governmental entities regulating development within water recharge areas in Orange County. The County shall strive for establishment of a County wide, uniform set of guidelines and criteria. (Policy 1.2.3)~~

AR1.2.4 ~~RESERVED Local Joint Planning Area Agreements shall provide for protection of high or very high aquifer recharge areas. The protection of high or very high aquifer recharge areas shall be assumed by the local jurisdiction upon annexation. (Added 12/00, Ord. 00-25, Policy 1.2.4 r)~~

AR1.2.5 Orange County shall continue to accomplish:

- A. Maintain ~~A~~ drainage well inventory by location;
- B. Identification of surrounding land use and proximity to potable water supply wells of the inventoried drainage wells;
- C. Identification of potential adverse impacts resulting from drainage wells;
- D. Prioritization, with dates of completion, of the needed improvements to correct or mitigate the potential for adverse impacts; and,
- E. Recommended changes to the Land Development Code. (Added 12/00, Ord. 00-25, Policy 1.2.5)

* * *

AR1.2.7 Orange County ~~shall maintain and periodically update water conservation has developed educational and awareness materials to serve as a Water Conservation Awareness Program that explains the following:~~

The importance of preserving and protecting groundwater resources;

~~The average w~~Water demands ~~and for everyday uses;~~

How ~~particular~~ conservation programs and practices, including ~~agricultural irrigation, can reduce the demand for groundwater; and,~~How Florida friendly landscaping techniques in ~~landscaping plans~~ can reduce the demand for groundwater resources. (Added 12/00, Ord. 00-25, Policy 1.2.7-r)

AR1.2.8 ~~RESERVED (Refer to ICE1.12.5) To prevent groundwater contamination to the maximum extent possible, Orange County shall continue to cooperate with all State and Federal authorities in the regulation, collection and disposal of hazardous wastes as defined in the Solid Waste Element by implementing programs that include, but are not limited to, the Small Quantity Generator Notification Program and the Local Hazardous Waste Program. (Policy 1.2.8)~~

GOAL AR2 Orange County shall put programs in place to prevent and address the contamination of the Floridan Aquifer and surficial aquifer. Contamination shall be defined as any violation of State, regional or local water quality standards. (Goal 2)

OBJ AR2.1 Orange County shall continue to monitor and implement programs to protect groundwater quality and eliminate potential sources of contamination. This objective shall be made measurable by implementing the following policies. (Objective 2.1)

POLICIES

* * *

AR2.1.2 Groundwater monitoring wells shall be required at all new or expanded landfills. When monitoring programs determine contamination has occur action will be taken, by the appropriate agency, to eliminate the contamination. (Added 12/00, Ord. 00-25, Policy 2.1.2)

AR2.1.3 ~~RESERVED When monitoring programs determine contamination has occurred, immediate actions will be taken to eliminate the contamination. (Policy 2.1.3)~~

AR2.1.4 ~~Orange County's Environmental Protection Division shall continue to implement its monitoring program and procedures to mitigate adverse impacts, if detected, of private businesses in the unincorporated area that use, generate or produce any material characterized or listed on the Resource Conservation~~

~~and Recovery Act's or the Environmental Protection Agency's hazardous waste lists, as required in the Aquifer/Wellfield Protection regulations.~~ The monitoring program will include uses restricted in wellhead protection areas, as defined in Rule 62-521.400, F.A.C., and uses identified as potential sources of groundwater contamination through the Source Water Assessment Program. The County will coordinate with DEP and ensure adequate testing, monitoring and remediation within delineated areas of groundwater contamination. (Added 12/00, Ord. 00-25, Policy 2.1.5-r)

* * *

AR 2.1.10 ~~By 2009, the~~ The County's Water Wells Ordinance will be amended consistent with the State's Wellhead Protection and Delineation Area laws and to assist with implementation of the Source Water Assessment and Protection Program (SWAPP).

GOAL AR3 Orange County shall ~~County's goal is to~~ develop and maintain a Water Supply Facilities Work Plan (Work Plan) and to coordinate with the St. Johns River Water Management District, the South Florida Water Management District, and other local, regional, state and federal agencies in the implementation of effective traditional and alternative water supply programs, including aquifer recharge projects, and in the implementation of effective linkages between water resource management and growth management in the County. (Goal 3)

OBJ AR3.1 Orange County shall develop and maintain a Water Supply Facilities Work Plan for at least a 10-year planning period addressing traditional and alternative water supply sources, facilities, and issues necessary to serve existing and future development within the Orange County Utilities service areas. (Objective 3.1)

POLICIES

AR3.1.1 The Water Supply Facilities Work Plan shall identify feasible traditional and alternative water supply sources, including aquifer recharge projects, which ~~the~~ Orange County may use to meet existing and projected water demands. These alternative aquifer recharge projects will be selected from the applicable Water Management Districts' Regional Water Supply Plans or otherwise proposed by ~~the~~ Orange County. (Policy 3.1.1)

AR3.1.2 The Water Supply Facilities Work Plan shall be updated ~~at least every 5 years,~~ ~~but~~ no later than 18 months following adoption of the applicable Water Management Districts' Regional Water Supply Plan updates. (Policy 3.1.2)

* * *

POLICIES

AR3.2.1 ~~RESERVED (Refer to ICE 1.6.11) In coordination with the St. Johns River Water Management District, the South Florida Water Management District, and other local governments or private utilities, Orange County shall seek the development of efficient, cost-effective, and technically feasible water sources that will satisfy and supplement future demands, without causing adverse impacts to water quality, wetlands, aquatic systems or the environment. These sources may include augmentation of groundwater supplies via additional recharge. (Policy 3.2.1)~~

* * *

AR3.2.3 ~~RESERVED (Refer to ICE1.6.13) Orange County shall work with the St. Johns River Water Management District, and South Florida Water Management District, during updates to their Regional Water Supply Plans, to identify potentially feasible alternative water supply projects involving aquifer recharge. (Policy 3.2.3)~~

* * *

**Stormwater Management Element
Goals, Objectives and Policies**

* * *

SM1.1.1 Orange County shall not approve for construction any road, street, or facility proposed to be constructed within a designated flood hazard area, unless mitigation measures, as identified in the applicable regulations, have been installed by the developer to overcome an identified flood hazard. All measures installed by the developer must be certified acceptable by the County prior to project completion. This policy shall be included in the floodplain regulations of the Land Development Code.

* * *

SM1.1.4 Orange County shall ~~have the authority to~~ require the design of stormwater management systems to be compatible with those natural terrain or landscape barriers that protect the site against flooding. (Added 12/00, Ord. 00-25)

* * *

SM1.1.6 Orange County has established the flood elevations for all land-locked lakes within the basins for which stormwater master plans have been completed. Orange County shall continue to establish and update ~~make progress in establishing~~ flood elevations for the remaining area lakes through Federal Emergency Management Agency (FEMA), localized studies and the remaining basin studies. Based upon new information, the County shall revise, as necessary, the minimum building pad elevations and modify existing land

development regulations in the Land Development Code. (Added 12/00, Ord. 00-25)

SM1.1.7 Orange County shall investigate reports of flooding in a timely manner. Response times, frequencies, durations and locations shall be noted and reported as requested by the Board of County Commissioners.

* * *

SM1.1.9 Orange County shall continue to participate in the Community Rating System (CRS) and strive to attain maximum discounts for the citizens of Orange County. (Added 12/00, Ord. 00-25)

* * *

OBJ SM1.2 Orange County shall improve its ability to manage stormwater so as to minimize the degradation of surface and ground water. ~~This objective shall be made measurable by implementing the following policies.~~ (Amended 12/07, Ord. 2007-20)

* * *

SM1.2.3 Orange County shall require Best Management Practices (BMPs) to minimize contributions of poor quality stormwater run-off to both groundwater and surface water bodies as part of both construction and operational phases of a project. All projects should be in compliance with both the water management district (WMD) permit as well as NPDES Construction Generic Permit and related Notice of Intent (NOI) and Storm Water Pollution Prevention Plan (SWPPP). (Amended 6/10, Ord. 10-07)

SM1.2.4 Orange County shall continue to require that plans for expansion, modification, or replacement of existing development provide ~~some~~ effective form of stormwater treatment, where such stormwater treatment is currently inadequate. As needed, the project shall be in compliance with the Total Maximum Daily Load (TMDL) Basin Management Action Plan (BMAP)~~TMDL BMAP~~. (Added 12/00, Ord. 00-25; Amended 6/10, Ord. 10-07)

SM1.2.5 Orange County shall continue to implement a program that monitors the effectiveness of County-maintained stormwater treatment systems to allow identification of possible system deficiencies. At a minimum, this program shall include sampling developed in accordance with Florida Department of Environmental Protection (FDEP) protocol. As part of this program, the possibility of including privately maintained facilities shall be evaluated. If there are deficiencies, Orange County shall develop a plan to improve its enforcement and maintenance procedures. This information shall be noted and included when the Division reports to the Board of County Commissioners, as referenced in Stormwater Management Policy SM1.4.9. (Added 12/00, Ord. 00-25; Amended 6/10, Ord. 10-07)

- SM1.2.6 Orange County shall continue to require that Stormwater Pollution Prevention Plans (SWPPP) and the associated Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities (NOI) be submitted and approved prior to a pre-construction conference as regulated through the Land Development Code. These plans shall be developed in accordance with the Florida Department of Environmental Protection (FDEP) Generic Permit for Stormwater Discharge from Large and Small Construction Activities (Construction Generic Permit, FDEP Document No. 62-621.300(4)(a)). (Added 12/00, Ord. 00-25; Amended 6/10, Ord. 10-07)
- SM1.2.7 Orange County shall continue to actively participate with other involved agencies and municipalities, as necessary, to develop and implement Basin Management Action Plans (BMAPs) ~~BMAPs~~ for those water bodies determined to be in greatest need through the Total Maximum Daily Load (TMDL) process as implemented by Florida Department of Environmental Protection (FDEP). If stormwater is determined to be a major water quality problem for a lake, planning and design shall be undertaken for corrective measures as part of the master stormwater planning process. The FDEP TMDL BMAPs set the pollution reduction allocations to be accomplished by local, regional and state entities. ~~(Drainage wells are currently regulated by FDEP and any changes or modifications must comply with their strict regulations.)~~ Amended 6/10, Ord. 10-07)
- SM1.2.8 ~~Orange County shall~~ ~~Specific care shall be given to~~ follow the Florida Department of Environmental Protection (FDEP) Total Maximum Daily Load (TMDL) program. This shall include an intra divisional review of the ongoing FDEP activities for listing water bodies. Those listed water bodies shall be targeted for retrofit projects and special stormwater quality enhancement projects. The watersheds of listed water bodies shall receive special stormwater and groundwater protection and enhancement consideration for all development and redevelopment. This shall include strict adherence to existing, environmentally sound land use requirements, as well as an implementation of alternative, proven, and more protective land use requirements, as they become available.
- SM1.2.9 Within the Wekiva Study Area, (map 12 WSA 1) new development and substantial redevelopment shall use best management practices (BMPs). At a minimum, use of these BMPs shall maintain surface and groundwater flow rates and volumes at pre-development levels, as defined in the updated Florida Department of Environmental Protection (FDEP) Stormwater Rule. ~~to be implemented in 2010~~. Water quality treatment shall reduce nutrients and other contaminants in discharges to historical background levels. Post-development peak rate of discharge must not exceed the predevelopment peak rate of discharge. The natural forms and functions of wetlands, surface water features, floodplains and other conveyance systems, as well as groundwater recharge areas shall be maintained. (Added 12/07, Ord. 2007-20; Amended 6/10, Ord. 10-07)

OBJ SM1.3 RESERVED

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SM1.4.1 Orange County shall ~~maintain a~~ continue to complete a formal listing that indicates the priority of drainage basin studies within the County, and coordinate with cities to any actions that are necessary to facilitate the completion of master stormwater plans ~~completion by other entities~~. (Added 12/00, Ord. 00-25)

SM1.4.2 Orange County ~~shall adopt a stormwater utility ordinance and~~ shall identify ~~other alternative~~ funding sources for drainage improvements, including amending and implementing the stormwater utility ordinance and master stormwater planning to enhance current funding levels on an ongoing basis. These new funding sources shall be used to meet additional drainage demands such as implementing master drainage planning or mitigating threatening drainage wells. (Added 12/00, Ord. 00-25)

SM1.4.5 RESERVED ~~Orange County shall update all of the stormwater master plans on an as-needed basis, as identified in Stormwater Management Policy SM1.4.1. To make these planning efforts more efficient, the level of detail for a specific basin can be targeted toward the prioritized needs referenced in Stormwater Management Policy SM1.4.7.~~ (Added 12/00, Ord. 00-25; Amended 06/17; Ord. 2017-12)

SM1.4.6 Orange County shall correct or mitigate the stormwater drainage facility deficiencies identified as impacting the public's health and safety. These existing facility deficiencies shall be upgraded based upon adopted levels of service standards appropriate for each basin. Deficiencies shall include flooding, non-compliance with Total Maximum Daily Load (TMDL) Basin Management Action Plans (BMAPs) ~~TMDL BMAPs~~ or general degradation of surface and groundwater quality. (Amended 6/10, Ord. 10-07)

SM1.4.7 Orange County shall prioritize and correct the deficiencies identified in the master stormwater plans through the subsequent stormwater sections of the Capital Improvements Program, with consideration given to the following criteria.

- A. The first priority should be given to those deficiencies that threaten health, safety and welfare, including. ~~This policy shall be interpreted to include drainwells identified to be a public threat to the aquifer or public drinking well water supply.~~
- B. The second priority should be given to those deficiencies that are identified or required improvement from regulatory requirements such as the TMDL program. (Amended 6/10, Ord. 10-07)
- C. The third priority should be given to those improvements that represent opportunities to participate on "joint projects" (with other public or private

entities), such as Lake Apopka Restoration, that will result in more efficient construction or replacement of stormwater improvements over time. (Added 12/00, Ord. 00-25; Amended 6/10, Ord. 10-07)

SM1.4.8 Orange County Stormwater Management Division shall cooperate and consult with the City of Orlando, the NPDES Co-permittees, other municipalities, and adjoining governments for the completion and updates of the identified master stormwater plans and the subsequent improvements to these systems. This cooperation shall include provision of information and technical assistance, participation on joint technical committees, and attendance at appropriate meetings (Amended 6/10, Ord. 10-07)

SM1.4.9 ~~RESERVED Orange County's Stormwater Management Division shall, as part of the budget process, continue to report annually to the Board of County Commissioners on prioritizing drainage and water quality concerns. (Amended 6/10, Ord. 10-07)~~

* * *

SM1.5.2 Orange County shall continue to ensure that the stormwater management regulations contained in the County Land Development Code protect natural drainage features by requiring compensating ~~compensatory~~ storage, restoration/mitigation of wetlands, nonstructural techniques when feasible, erosion and sediment control, maintenance of natural hydroperiods, and maximization of on-site detention/retention. (Added 12/00, Ord. 00-25)

SM1.5.3 As part of the development review process, an impact assessment will be required that addresses the effects of new development on existing stormwater management systems. This review process, as defined in the Land Development Code and the Subdivision Regulations, considers how the stormwater management system will operate at build-out. (Added 12/00, Ord. 00-25)

SM1.5.4 Orange County shall continue to evaluate the effectiveness of current surface water management criteria in the Land Development Code and the Subdivision Regulations, including the applicability and effectiveness of swales, open channels, and culverts.

SM1.5.5 Orange County shall monitor and update the regulations in the Land Development Code and the Subdivision Regulations to ensure the following criteria are met:

- A. Where economically feasible and physically possible, a nonstructural approach shall be used to meet the County's surface water quantity and quality needs;
- B. In new developments, Orange County shall require a retention/detention system that limits peak discharge of a developed site to the peak discharge from the site in an undeveloped condition for a specified design storm;

- C. Stormwater collected in any development must be disposed of in a manner that will not cause personal or property damage to upstream and/or downstream property owners;
- D. Any segment of a drainage system that is to be dedicated and made a part of the County's drainage system shall be designed to accommodate upstream flows through the system; and,
- E. Each phase of any development shall exist as an independent unit capable of having its surface water management needs met by the drainage system design.

* * *

SM1.5.7 Orange County shall require that all stormwater management devices constructed and dedicated to the County shall be designed so that they can be maintained at a minimal cost to the taxpayer.

SM1.5.8 Orange County shall maintain a level of service standard for new and existing development, based on the following stormwater quantity and quality criteria:

- A. Design storm based on 24 hour minimum, as shown in Table SM1.

<u>Table SM 1</u>	
<u>Design storm based on 24 hour minimum</u>	
FACILITY	DESIGN STORM
Bridges	50 Year
Canals, ditches, or culverts for drainage external to the development	25 Year
Crossdrains, storm sewers	10 Year
Roadside swales for drainage internal to the development	10 Year
Detention basins	25 Year
Retention basins (no positive outfall)	100 Year

- B. Pollution abatement shall be accomplished by requiring stormwater management systems to retain or detain with filtration, the first one-half inch of run-off from developed sites, or the run-off generated from the first inch of rainfall on developed sites, whichever is greater.
- C. Orange County shall require a retention/ detention system that limits peak discharge of a developed site to the discharge from the site in an undeveloped condition during a 25 year/24 hour frequency storm event.

- D. Orange County shall require, prior to development approval, that projects receive appropriate permits from State agencies to comply with the rules and regulations for stormwater facility design, performance and discharge.
- E. Discharged stormwater run-off shall not degrade receiving surface water bodies below the minimum conditions as established by State water quality standards (62-302 and 62-40.432, Florida Administrative Code) or the requirements of an approved TMDL BMAP, whichever is more stringent. (Amended 6/10, Ord. 10-07)

* * *

SM1.5.10 ~~RESERVED (Refer to ICE1.11.4) Orange County shall seek, from Federal and State sources, additional opportunities for funding and joint projects to facilitate County wide surface water management programs.~~

SM1.5.11 ~~RESERVED (Refer to ICE1.11.5) Orange County shall continue to establish and strengthen interlocal agreements with other government agencies that are involved in stormwater management practices that affect Orange County or where the parties are jointly involved in a TMDL BMAP. Data sharing and exchange of drainage information shall continue to be emphasized in the interlocal agreements. As part of this process, Orange County shall encourage municipalities to enact surface water management criteria that are technically consistent with and meet State, regional, and County requirements for new development. Actions by municipalities that affect the Orange County drainage system should likewise be communicated to the County. (Added 12/00, Ord. 00-25; Amended 6/10, Ord. 10-07)~~

SM1.5.12 Within the Wekiva Study Area, no stormwater structure or facility shall be located within the specific distances of a karst feature shown in Table SM2, ~~below~~ unless it is determined by a certified professional geologist or professional engineer experienced in geohydrology that the area is safe and that there is no subsurface connection that may cause contamination or damage to the groundwater. No stormwater runoff shall be allowed to drain directly through any sinkhole or other karst feature. All runoff recharging the Floridan Aquifer shall be pre-treated to remove nutrients and other contaminants so that post-development water quality equals predevelopment recharge water quality to the greatest extent feasible, or as required in a Total Maximum Daily Load Basin Management Action Plan (TMDL BMAP). The Land Development Code will be amended by July 1, 2007 to include setbacks and specific performance standards for development within areas of sinkholes, karst features, drainwells, and any other feature with a direct connection to the Floridan Aquifer. (Added 12/07, Ord. 2007-20; Amended 6/10, Ord. 10-07)

<u>Table SM2</u> <u>Buffer Requirement from Karst Features</u>	
Karst Feature Type	Minimum Buffer in Feet
Springs	300
Spring Runs	150
Sinkholes with direct connection to the aquifer	200, as measured from the drainage divide
Other sinkholes	100, as measured from the drainage divide
Caves	½ mile, as measured on the surface from the centerline of the cave system
Other karst features with a direct connection to the aquifer (swallet or stream to sink)	200, as measured from the drainage divide

* * *

SM1.7.3 Orange County shall work towards implementing a stormwater beautification program to integrate existing stormwater ponds with surrounding land uses ~~in order to be more visually pleasing.~~ (Added 5/96, Ord. 96-11)

* * *

**Solid Waste Element
Goals, Objectives and Policies**

GOAL SW1 **Orange County shall provide efficient and environmentally sound end-of-life resource management (e.g., solid waste disposal and recycling service) to accommodate existing and future demand.**

OBJ SW1.1 **Orange County shall operate and maintain an Integrated Solid Waste Resource Recovery System (System) comprised of transfer stations, landfills, recycling facilities, and other resource recovery facilities to provide adequate end-of-life resource management to provide adequate solid waste disposal facilities and capacity to accommodate existing and future demands by implementing the following policies.**

* * *

SW1.1.2 Orange County Landfill improvements shall be designed to maximize the expected life for the Class I and Class III Landfills and meet applicable regulations ~~The additional acreage for landfill operations shall be designed to maximize the expected life for this facility and meet solid waste regulations for landfill disposal and the necessary environmental standards.~~

* * *

SW1.1.4 Future solid waste transfer stations and disposal sites shall be located so they can provide sustainable, environmentally and economically responsible management of end-of-life materials ~~efficient and cost-effective management of waste~~ in accordance with Local, State and Federal regulations.

* * *

SW1.1.6 The operation of the ~~Countywide Integrated Solid Waste Management System~~ shall be funded by means of user fees, program oriented State funds and available Federal grants. (Added 12/00, Ord. 00-25)

SW1.1.7 Orange County shall maintain a rate structure that is fair to both consumers and collectors, and that covers the cost of operating, constructing, and maintaining capacity of the ~~Integrated Solid Waste Management system~~ System. (Added 12/00, Ord. 00-25)

SW1.1.8 Orange County shall monitor the system for residential and commercial solid waste collection to ensure that the most sustainable, environmentally and economically responsible ~~efficient and cost-effective~~ service is being provided to its customers. (Added 12/00, Ord. 00-25)

SW1.1.91.2.1 Orange County shall continue to monitor the financial and environmental feasibility of operating a solid waste management system. The system shall be adjusted from time to time in the interest of maintaining the most sustainable, environmentally and economically responsible operation possible. (Amended 12/00, Ord. 00-25)

SW1.1.101.2.2 Orange County shall continue to promote private sector participation in resource recovery systems to the extent feasible. (Added 12/00, Ord. 00-25)

SW1.1.111.1.9 Orange County shall maintain full service refuse pick-up throughout unincorporated Orange County, in accordance with Chapter 32 of the Orange County Code. (Amended 12/00, Ord. 00-25)

SW1.1.121.1.10 Orange County shall continue to prohibit jurisdictions located outside of the Orange County's geographic boundary from utilizing the Orange County Landfill (Per Resolution 90-SW-01) in order to preserve capacity for Orange County and avoid higher rates for Orange County residents.

Exceptions for extra jurisdictional users must be approved by the Board of County Commissioners and implemented pursuant to interlocal agreement specifying the quantity and duration of such disposal. Municipalities located within the geographic boundaries of Orange County shall retain access to the Orange County Landfill by entering into interlocal agreements with the County. (Added 12/00, Ord. 00-25)

~~SW1.1.131-1.11~~ In order to maximize the use of the System in a fiscally sound and efficient manner, Orange County shall implement the findings of the Solid Waste Division's most recent Business Plan. ~~In order to maximize the use of the Orange County Landfill in a fiscally sound and efficient manner, Orange County shall implement the findings of the Solid Waste Division's Business Plan by 2004.~~ (Added 12/00, Ord. 00-25)

~~SW1.1.141-1.12~~ Orange County shall continue to monitor and evaluate the available capacity at the Orange County Landfill for the purpose of meeting ~~our~~ concurrency system management requirements. In order to plan for and to ensure ~~insure~~ adequate capacity for existing and new developments in Orange County, municipalities within Orange County utilizing the Orange County Landfill for the purposes of concurrency and solid waste facility capacity and availability per Chapter 163, Florida Statutes, must enter into interlocal agreements committing appropriate quantities of solid waste to the Orange County Landfill. (Added 12/00, Ord. 00-25)

~~SW1.1.151-1.13~~ The County shall encourage and support the permitting of Class III or Construction and Demolition recycling facilities or landfills over a wide geographic area to best serve the public and support the efforts of the waste management industry to provide waste management services in a timely, economically efficient manner and to preserve capacity at the Orange County Landfill. (Added 12/00, Ord. 00-25)

OBJ SW1.2 Orange County shall continue to implement alternate means of solid waste management to reduce landfill disposal, and to ban the disposal of yard waste in Orange County's Class I landfill and any other existing or future lined landfills maintained by Orange County. (Added 12/00, Ord. 00-25)

POLICIES

~~SW1.2.1~~ **RESERVED** ~~Orange County shall continue to monitor the financial and environmental feasibility of operating a solid waste management system. The system shall be adjusted from time to time in the interest of maintaining the most efficient, cost-effective operation possible.~~ (Added 12/00, Ord. 00-25)

~~SW1.2.2~~ **RESERVED** ~~Orange County shall continue to promote private sector participation in resource recovery systems to the extent feasible.~~ (Added 12/00, Ord. 00-25)

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SW1.2.6 ~~RESERVED~~ ~~Orange County shall seek to establish interlocal agreements with the local governments in the County to promote coordinated recycling efforts. (Added 12/00, Ord. 00-25)~~

* * *

SW1.6.11.2.8 The County shall require all municipalities that use the Orange County Landfill for solid waste disposal to separately collect and dispose of their yard waste. (Renumbered 12/00, Ord. 00-25)

SW1.6.21.2.9 The County shall continue to implement a separate disposal and/or composting program for yard waste at approved sites. (Renumbered 12/00, Ord. 00-25)

SW1.6.31.2.10 The County shall require its existing franchise and commercial haulers to separate and deliver yard trash waste to approved sites. (Renumbered 12/00, Ord. 00-25)

SW1.6.41.2.11 The County shall continue its educational program to increase awareness of the benefits of backyard composting of yard trash waste. (Added 12/00, Ord. 00-25)

SW1.6.51.2.12 The County's educational program shall continue to use, but is not limited to, public service announcements, mail outs and demonstration projects. (Added 12/00, Ord. 00-25)

OBJ SW1.3 **Orange County shall improve its intergovernmental coordination efforts for establishing fees, locating transfer stations, and controlling the movement of waste within the County. This objective shall be made measurable by the following policies.**

* * *

SW1.3.4 The County shall require licensed commercial waste haulers to submit reports of disposal deliveries by tonnage and location source to the Solid Waste Division in a timely manner. (Added 12/00, Ord. 00-25)

OBJ SW1.4 **Orange County shall require that landfill activities be operated in an environmentally sound manner for existing and future landfills that are operated and maintained by Orange County. This objective shall be made measurable by the following policies. (Added 12/00, Ord. 00-25)**

* * *

SW1.4.2 Groundwater monitoring wells shall be added to the landfill as expansion of the site occurs. All future Class I and Class III landfills shall have

groundwater monitoring wells as required by Chapter 62-701, Florida Administrative Code ~~the Solid Waste Management Ordinance~~. (Added 12/00, Ord. 00-25)

* * *

OBJ SW1.5 **Orange County shall continue to require that all existing and future privately owned solid waste management activities be operated in an environmentally sound manner. ~~This objective shall be made measurable by the following policies.~~** (Added 12/00, Ord. 00-25)

* * *

SW1.5.2 RESERVED ~~As stipulated in the Solid Waste Management Ordinance, Orange County shall continue to require applicants to submit a proposed final use plan for the site.~~ (Added 12/00, Ord. 00-25)

* * *

SW1.5.4 The County shall review and adjust ~~the need to update~~ the processing fee schedule for private solid waste management facilities. ~~If necessary, the fee schedule shall be adjusted as appropriate.~~ (Added 12/00, Ord. 00-25)

OBJ SW1.6 **RESERVED ~~Orange County shall continue to implement alternate means of solid waste management to ban the disposal of yard trash in the Orange County Landfill and any other existing or future lined landfills maintained by Orange County.~~** (Added 12/00, Ord. 00-25)

POLICIES

SW1.6.1 RESERVED ~~The County shall require all municipalities that use the Orange County Landfill for solid waste disposal to separately collect and dispose of their yard trash.~~ (Added 12/00, Ord. 00-25)

SW1.6.2 RESERVED ~~The County shall continue to implement a separate disposal and/or composting program for yard trash at approved sites.~~ (Added 12/00, Ord. 00-25)

SW1.6.3 RESERVED ~~The County shall require its existing franchise and commercial haulers to separate and deliver yard trash to approved sites.~~ (Added 12/00, Ord. 00-25)

SW1.6.4 RESERVED ~~The County shall continue its educational program to increase awareness of the benefits of backyard composting of yard trash.~~ (Added 12/00, Ord. 00-25)

SW1.6.5 RESERVED ~~The County's educational program shall continue to use, but is not limited to, public service announcements, mail outs and demonstration projects.~~ (Added 12/00, Ord. 00-25)

OBJ SW1.7 Orange County shall ensure compatibility of land uses when considering approvals of new or expanding existing landfills. ~~This objective shall be made measurable by the following policies.~~ (Added 12/00, Ord. 00-25)

POLICIES

SW1.7.1 All new landfills shall be allowed only in areas with Future Land Use designations of Rural/Agricultural or and Industrial. ~~This policy is not intended to restrict landfills from locating on parcels within the Urban Service Area boundary.~~ (Added 12/00, Ord. 00-25)

* * *

OBJ SW2.1 Orange County shall ensure the proper management of hazardous wastes. ~~This objective shall be made measurable by the following policies.~~

POLICIES

SW2.1.1 RESERVED ~~Orange County shall cooperate with all State and Federal authorities in the regulation and disposal of hazardous wastes by establishing or expanding programs at the local level.~~

* * *

SW2.1.3 Orange County shall continue to operate a program to collect, temporarily store, and assure the proper disposal of household generated chemicals, and provide assistance to very small quantity generators so that they may dispose of their hazardous waste properly. ~~Orange County shall continue to operate a collection and temporary storage facility for household and "conditionally exempt" generated hazardous waste.~~

SW2.1.4 Orange County shall support the Department of Environmental Protection's efforts to identify and improve the handling of hazardous waste from households. ~~by these household hazardous wastes and temporarily storing them prior to disposal/recycling at the designated temporary hazardous waste site at the County Landfill and distributing educational material on the subject.~~

SW2.1.5 The County shall limit or exclude new or expanded solid waste facilities and hazardous waste treatment storage and disposal facilities within the Wekiva Study Area (WSA). ~~The County will evaluate the hazards posed by new solid waste facilities and expansions or extension requests of existing facilities within the Wekiva Study Area (WSA). The County will study appropriate siting criteria and other issues for solid waste transfer stations, hazardous and toxic materials treatment and disposal sites, and landfills. The County shall adopt regulations, as needed, to limit or exelude~~

~~such facilities within portions of the WSA by December 31, 2008. (Added 12/07, Ord. 2007-20)~~

* * *

Section 4. Effective Dates for Ordinance and Amendment.

- (a) This ordinance shall become effective as provided by general law.
- (b) In accordance with Section 163.3184(3)(c)4., Florida Statutes, no plan amendment adopted under this ordinance becomes effective until 31 days after the DEO notifies the County that the plan amendment package is complete. However, if an amendment is timely challenged, the amendment shall not become effective until the DEO or the Administration Commission issues a final order determining the challenged amendment to be in compliance.
- (c) No development orders, development permits, or land uses dependent on this amendment may be issued or commence before the amendment has become effective.

ADOPTED THIS 23rd DAY OF FEBRUARY, 2021.

ORANGE COUNTY, FLORIDA
By: Board of County Commissioners

By: *Jerry L. Demings*
for Jerry L. Demings
Orange County Mayor

ATTEST: Phil Diamond, CPA, County Comptroller
As Clerk to the Board of County Commissioners

By: *Katie Smith*
Deputy Clerk

