

Wastewater Element

Goals, Objectives, and Policies

Approved August 12, 1991 • Amended June 8, 2009

POLICY DOCUMENT

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WASTEWATER GOALS, OBJECTIVES & POLICIES

GOAL 1

To provide efficient and economic wastewater services in a manner which protects the public health, safety, and welfare, is consistent with the desired urban form, and minimizes public costs.

Objective 1.1 The City shall monitor wastewater revenues and expenditures on an on-going basis to maximize the economic efficiency of the utility and to plan for future capital outlays on a five year basis. The establishment of priorities for replacement, correcting facility deficiencies and providing for future facility needs will be a part of the review process.

(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)

Policy 1.1.1 The City shall provide wastewater service to the Iron Bridge service area based upon the following Levels of Service:

Single Family	250 g/du/d
Multi-Family	190 g/du/d
Office	0.08 g/sqft/d
Commercial	0.09 g/sqft/d
Industrial	0.12 g/sqft/d
Lodging	119 g/rm/d
Government	0.08 g/sqft/d
Hospital	0.08 g/sqft/d

The capacity of the collection system shall be based upon the peak flow with the pipe capacity at 75%, lift stations with the largest pump out of service, and force mains flowing full at 5 feet per second. Treatment plant capacity shall be based upon the annual average daily flow.

(Amended April 14, 2003, Effective June 7, 2003, Doc. No. 030414702)

Policy 1.1.2 The City shall provide wastewater service to the Water Conserv I service area based upon the following Levels of Service:

Single Family	250 g/du/d
Multi-Family	190 g/du/d
Office	0.08 g/sqft/d
Commercial	0.09 g/sqft/d
Industrial	0.12 g/sqft/d
Lodging	119 g/rm/d
Government	0.08 g/sqft/d
Hospital	0.08 g/sqft/d

The capacity of the collection system shall be based upon the peak flow with the pipe capacity at 75%, lift stations with the largest pump out of service, and force mains flowing full at 5 feet per second. Treatment plant capacity shall be based upon the annual average daily flow.

(Amended April 14, 2003, Effective June 7, 2003, Doc. No. 030414702; Amended June 8, 2009, Effective August 25, 2009, Doc. No. 0906081103)

Policy 1.1.3 The City shall provide wastewater service to the Water Conserv II service area based upon the following Levels of Service:

Single Family	250 g/du/d
Multi-Family	190 g/du/d
Office	0.08 g/sqft/d
Commercial	0.09 g/sqft/d
Industrial	0.12 g/sqft/d
Lodging	119 g/rm/d
Government	0.08 g/sqft/d
Hospital	0.08 g/sqft/d

The capacity of the collection system shall be based upon the peak flow with the pipe capacity at 75%, lift stations with the largest pump out of service, and force mains flowing full at 5 feet per second. Treatment plant capacity shall be based upon the annual average daily flow.

(Amended April 14, 2003, Effective June 7, 2003, Doc. No. 030414702; Amended June 8, 2009, Effective August 25, 2009, Doc. No. 0906081103)

Policy 1.1.4 The City shall have a yearly formal review of all wastewater rates. Rates should be modified, as required, to reflect the current and projected cost of materials, labor, and services.

Policy 1.1.5 The City shall monitor the availability of funds at the state and federal levels of government for the construction of wastewater facilities, and, where applicable and practical, shall encourage wastewater planning consistent with the eligibility requirements of the funding program.

Policy 1.1.6 The City shall minimize illegal connections and discharges to the City's wastewater system.

Objective 1.2 The City shall perform regular monitoring and maintenance of the collection system to ascertain the location of existing capacity deficiencies beyond those identified in this element.

(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)

Policy 1.2.1 To the extent feasible, the City shall divert flow from deficient treatment plant areas to surplus plant areas to utilize existing capacity instead of building new capacity.

- Policy 1.2.2 The City shall continue to reduce the discharge of high strength waste into the wastewater system through the existing surcharge program.
- Policy 1.2.3 To the extent feasible, the City shall minimize the amount of infiltration/inflow (I/I) into the wastewater collection system.
- Objective 1.3** In order to reduce inefficient wastewater service due to duplication, fragmentation, and overlapping jurisdictions, the City shall adhere to the City of Orlando-Orange County Wastewater Service Territorial Agreement approved May 4, 1994.
(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)
- Policy 1.3.1 The City shall encourage the joint development and use of wastewater treatment and disposal facilities without regard to political or jurisdictional boundaries, when such systems provide the most cost-effective services to the citizens of the City of Orlando.
- Policy 1.3.2 The City shall coordinate the development of future wastewater facilities for the Orlando Urban Area with Orange County.
- Policy 1.3.3 The City shall promote the regional concept of wastewater treatment by encouraging elimination of existing package treatment plants and disallowing the development of new package treatment plants.
- Policy 1.3.4 The City Wastewater Division shall coordinate with other City and County departments and other agencies involved with infrastructure, such as OUC and transportation, to minimize installation costs.
(Amended June 8, 2009, Effective August 25, 2009, Doc. No. 0906081103)
- Objective 1.4** The City shall maintain a sewer system evaluation and survey program to identify those elements of the infrastructure in need of repair or replacement. The City shall, through an ongoing program, evaluate the age and condition of existing wastewater infrastructure to locate pipes, lift stations, force mains, and other facilities to determine the end of their economic life and to project costs for their replacement.
(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)
- Policy 1.4.1 Wastewater infrastructure over 30 years old shall be prioritized for evaluation and inspection. Repair or replacement strategies will be developed, where appropriate, to ensure continued effective operation of the system.
(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)
- Objective 1.5** The City shall review annually the wastewater system delineated within the GMP to determine the location of existing surpluses to encourage infill development, discourage sprawl, and to maximize the use of existing sanitary sewer facilities.
(Amended June 8, 2009, Effective August 25, 2009, Doc. No. 0906081103)

Policy 1.5.1 The City shall utilize an appropriate evaluation methodology in order to determine actual surplus or deficit conditions on an annual basis.
(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636; Amended June 8, 2009, Effective August 25, 2009, Doc. No. 0906081103)

GOAL 2

To reduce the environmental impacts of the City's wastewater system upon land and water resources.

Objective 2.1 The City shall evaluate the need for modifying effluent utilization practices at Water Conserv I, Water Conserv II, and Iron Bridge on an annual basis. The City shall review existing effluent utilization methods, alternative methods and technologies, and the Future Land Use Map Series to determine possible impacts and future needs. This study shall include but not be limited to:

- a. Implications of the Orlando Beltway, the Horizons West project and meteorological conditions upon the availability of citrus groves for effluent disposal for Water Conserv II and recommendations for alternative disposal methods.
- b. A long term sludge management program which is reliable, environmentally sound, and can respond to changes in governmental regulations.
- c. The Implications of the Southeast Area Annexations on the capacity needs of the Water Conserv I facility.

(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636; Amended June 8, 2009, Effective August 25, 2009, Doc. No. 0906081103)

Policy 2.1.1 The City shall conduct informational and educational campaigns to encourage industrial/commercial customers within the City service areas to implement water conservation programs or use reclaimed water where practical and economically feasible.

(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)

Policy 2.1.2 The Orlando Wastewater Division Environmental Control Section shall coordinate the industrial pretreatment program with other City departments, such as Public Works and Fire, which deal with hazardous wastes and/or materials.

(Amended June 8, 2009, Effective August 25, 2009, Doc. No. 0906081103)

Policy 2.1.3 For property located within the City portion of the Wekiva Overlay District, the City shall require connection to the central wastewater system and phase out of on-site septic systems when City wastewater service is available, as defined by Section 381.0065(2)(a), F.S.

Where City wastewater service is available, the following requirements apply:

1. All new development and redevelopment shall connect to the City wastewater system;
2. Existing development served by an on-site septic system shall be required to connect to the City wastewater system when the on-site system fails;
3. The City shall encourage existing development served by an on-site septic system to connect to the City wastewater system by offering an abandonment credit program to help offset the cost of connection.

Where City wastewater service is not available, the following requirements apply:

1. On-site septic systems that fail shall be replaced with a Performance Based Treatment System (PBTS).
2. All new development shall install a PBTS.
3. All PBTS shall be maintained and inspected consistent with the approved Orange County Health Department permit and any associated Maintenance and Perpetuity Agreement.
4. Conventional septic tank systems may be used only if both of the following conditions are met:
 - a. The City has committed to provide wastewater service within five years.
 - b. The property owner has agreed in writing to connect to such service as soon as it becomes available.

The City shall coordinate with the Orange County Health Department to effectuate the provisions of this policy throughout the planning period, through formal agreements and/or standard operating policy, with the goal of phasing out on-site septic systems.

(Amended December 15, 2008, Effective March 10, 2009, Doc. No. 0812151104)

Policy 2.1.4

Reserved.

(Amended December 15, 2008, Effective March 10, 2009, Doc. No. 0812151104)

Objective 2.2

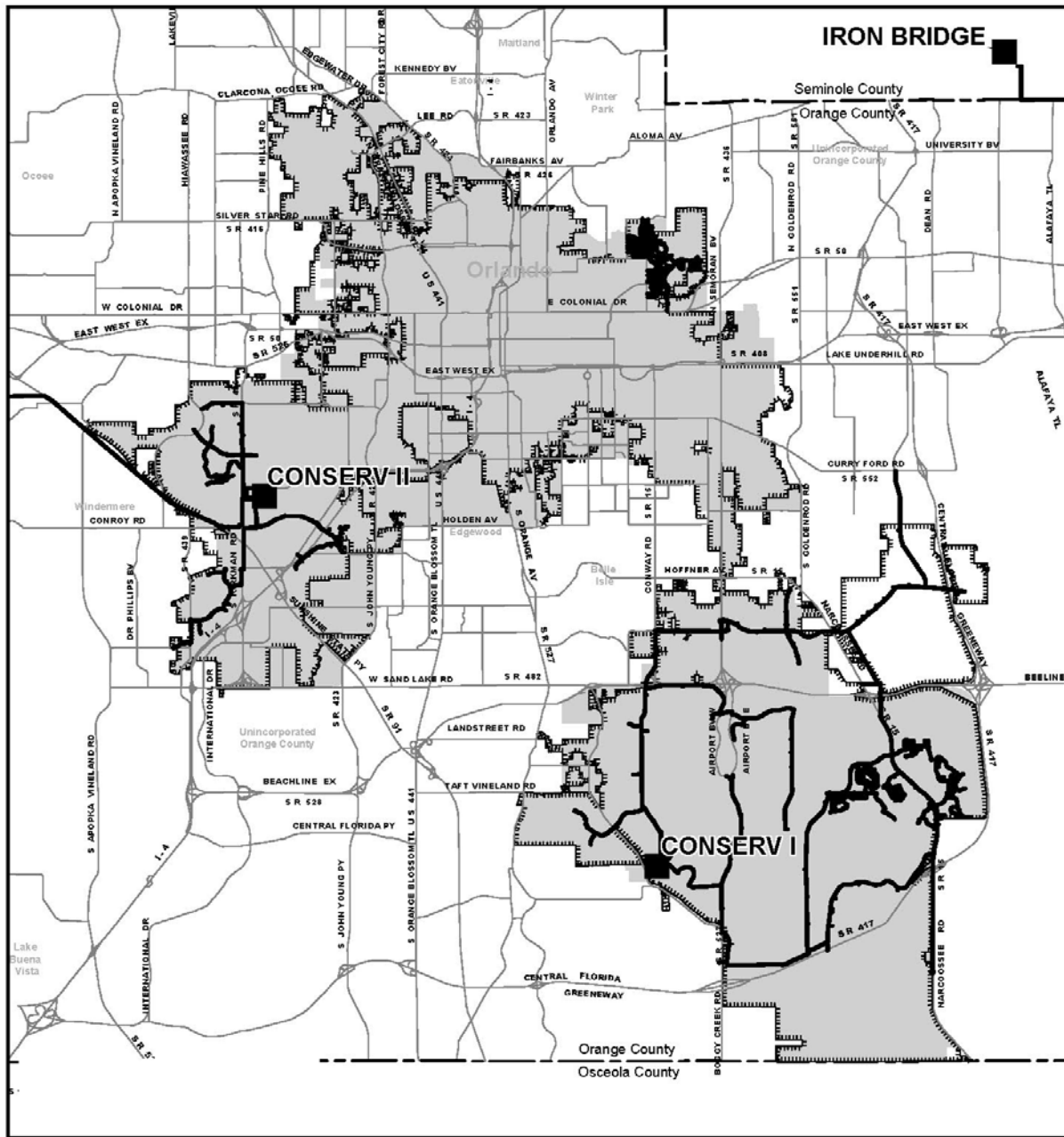
The City shall continue to expand the existing water reuse program where economically viable. As part of this program, the City shall review industries and other land uses within the Orlando Urban Area to determine the possibility of reclaimed water use opportunities.


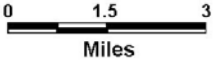





(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)

- Policy 2.2.1 The City shall promote sewage flow reductions and organic load reductions through greater public education.
- Policy 2.2.2 The City shall consider adopting an ordinance encouraging or requiring the use of reclaimed water in place of potable water wherever feasible. The City of Orlando recognizes that in providing wastewater services certain critical natural resources are utilized. Therefore it is the City's policy to encourage the conservation of water resources and to promote the reuse rather than the disposal of these resources.
(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)
- Policy 2.2.3 The City shall coordinate with OUC to provide reclaimed water as stipulated in Conditions 36 and 37 of OUC's Consumptive Use Permit (CUP) #3159. These conditions require that the City provide a minimum of 11.1 million gallons per day of reclaimed water by 2020 and construct Project RENEW to provide 9.2 million gallons per day of reclaimed water to western Orange County by 2015.
(Amended January 22, 2007, Effective April 9, 2007, Doc. No. 0701221004)
- Objective 2.3** The City shall engage in an educational program to increase public awareness of importance of wastewater treatment and proper effluent utilization in the community.
(Amended February 7, 2000, Effective March 9, 2000, Doc. No. 32636)
- Policy 2.3.1 The City's educational program shall use public service announcements, mail-outs, and/or demonstrations.

**Figure
WW-1**

Reclaimed Water Service Area



LEGEND		 NORTH
 0 1.5 3 Miles	 Existing Reclaimed Water Line	
	 Reclaimed Water Service Area	
	 City Water Reclamation Facility	
	 Orange County / Other Service Areas	
	 Orlando City Limits	

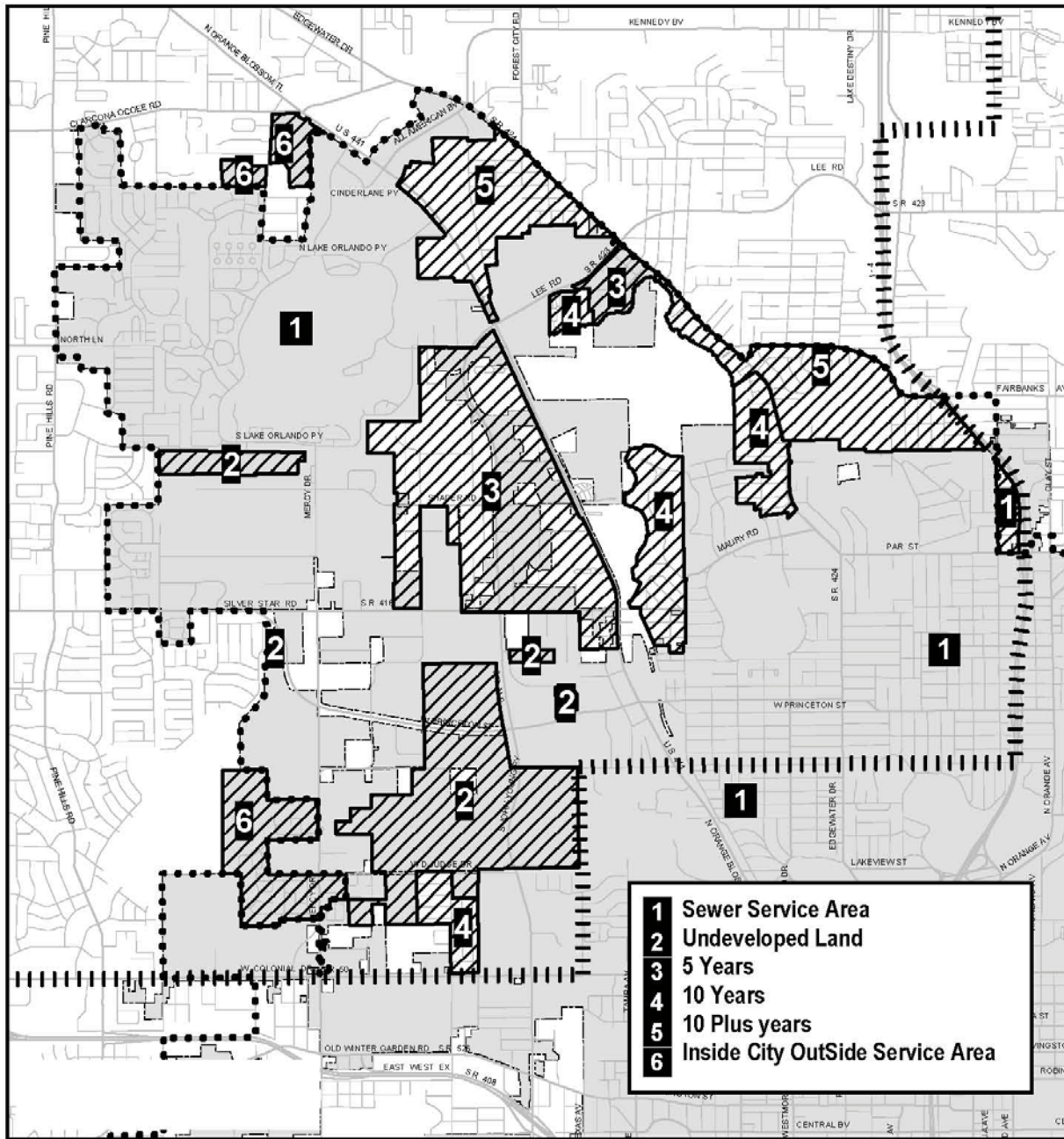
City of Orlando Economic Development Department
City Planning Division, January, 2007

Amended: January 22, 2007
Effective: April 9, 2007

Doc. No. 0701221004
Supp. 06-RWSP1

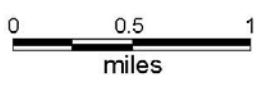
**Figure
WW-2**

Wekiva Waste Water Service Area



- 1** Sewer Service Area
- 2** Undeveloped Land
- 3** 5 Years
- 4** 10 Years
- 5** 10 Plus years
- 6** Inside City Outside Service Area

LEGEND



- Orlando City Limits
- Waste Water Service Area Boundary
- Wekiva Recharge Area Boundary
- Non Sewer Area
(See Chart For Time Line)



City of Orlando Economic Development Department
City Planning Division, March, 2008