



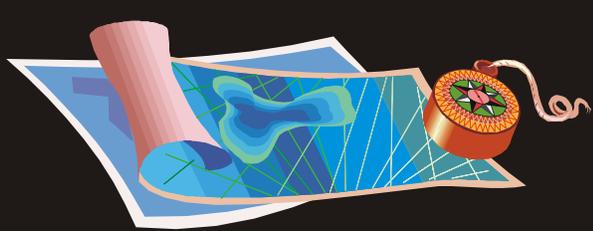
SANITARY SEWER ELEMENT

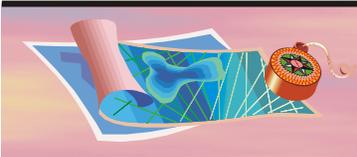
- Introduction
- Issues and Concerns
- Goals, Objectives and Policies



SANITARY SEWER

VISION 2020





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SANITARY SEWER ELEMENT INTRODUCTION

Sanitary sewer services are provided to residential and non-residential unincorporated Seminole County users through County, City and private central sewer systems. The County has three sanitary sewer service areas:

- 1 Southwest Service Area - This area is served by wholesale agreements with Utilities Inc. and the City of Altamonte Springs;
- 2 Southeast Service Area - This area is served by the Iron Bridge wastewater plant located south of Oviedo and operated by the City of Orlando. By agreement, the County has reserved a proportional share of the facility's treatment capacity; and
- 3 Northwest Service Area - This area is served by two (2) County owned wastewater treatment facilities, the Northwest Area Regional Wastewater Treatment Facility (NWARWWTF) and the Greenwood Lakes Wastewater Treatment Facility (GWLWWTF).

Additional sanitary sewer services are provided to unincorporated users by the cities of Altamonte Springs and Sanford and by one major private sewer utility.

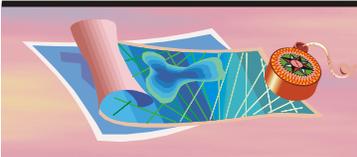
The County operates the sanitary sewer system as a fee-based enterprise. To ensure a continued supply of sewer treatment, the Water and Wastewater Division of the County's Environmental Services Department does an annual budget and five year capital plan for maintenance, replacement and capacity expansion based on a five year master plan. Additionally, the County works with the cities and private utilities to share wholesale services.

Public health and safety is furthered by requiring central sewer hookup where appropriate in river protection areas, revision of septic tank standards as needed and by requiring effluent reuse agreements with all new development. Additionally, to meet Federal and State requirements, a wastewater laboratory has been established and an industrial pretreatment ordinance adopted.



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SANITARY SEWER ELEMENT ISSUES AND CONCERNS

MONITORING OF PROPOSED REGULATION

Issue SAN 1

Disposal of Sludge

The County could face significant capital expenditure to dispose of sludge should landfilling be prohibited. Rule 17-640 F.A.C., "Domestic Wastewater Sludge", establishes minimum requirements for domestic sludge which is applied to land, distributed and marketed, or used for reclamation. This Rule does not apply to the current County disposal of sludge at the Osceola landfill. However, future revisions may institute such regulation. Potential expenses could be additional treatment of sludge, stricter regulation of the pretreatment process, obtaining disposal areas and/or paying disposal fees.

Issue SAN 2

Reuse Rule (Rule, 62-610 F.A.C.)

The costs of future expansion, modification, or new construction of reuse systems could be significant under the Reuse Rule (Rule, 62-610 F.A.C.). The Reuse Rule, (Rule 62-610, F.A.C.), deals with treated effluent wastewater used for irrigation, sprinkling, car washing, fire fighting, etc. The County currently spray irrigates approximately 1,000,000 gallons per day in the Greenwood Lakes area and approximately 30,000 gallons per day in the Northwest service area. This amount will increase over time. The Rule will need to be carefully monitored as it could be amended to require significant capital expenditure to modify existing or build new wastewater reuse and land application systems. Proposed revisions to the Rule would set new design, operation and maintenance criteria needed to reach the required degree of treatment for reuse water.

EFFECTIVE SANITARY SEWER OPERATION

Issue SAN 3

Coordination With Other Wastewater Providers

Coordination between wastewater providers is required to continue the effective and efficient provision of service. Wholesale agreements with the cities and private sewer providers is an effective means of providing service to both unincorporated residents not within a County service area and City residents. The County currently has wholesale agreements with the Cities of Longwood, Lake Mary, Altamonte Springs, Oviedo, and Sanford, and with Orange County and Utilities Inc. The County should continue to evaluate wholesale agreements with municipal and/or private utilities concurrent with any County plans to expand capacity or lines.

Issue SAN 4

Effluent Reuse For Irrigation Purpose

Effluent reuse for irrigation purposes is an effective method to increase wastewater effluent disposal capacity and maintain potable water reserves. The County requires, as part of the standard sewer agreement, that customers accept effluent reuse if available and required by the County. The County currently provides reclaimed water (reuse) in the Greenwood Lakes area and Northwest service area. Future plans call for effectively utilizing all wastewater effluent produced in the Northwest Service Area. These standard agreements allow the County to expand the reuse program into all wastewater service areas if necessary. The County should continue to require effluent reuse as part of standard sewer agreements with all development.



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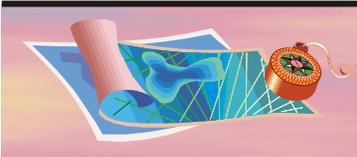
LEVEL OF SERVICE STANDARDS

Issue SAN 5

Maintaining Adopted Levels of Sewer Service

The State requires that local jurisdictions assure that adopted levels of sewer service be maintained concurrent with the demand for those services. The goals, objectives and policies section establishes the County's level of service as 300 gallons of wastewater treatment and disposal per day (average daily flow) per Equivalent Residential Connection (ERC) for each individual service area. The amount of peak facility capacity required is established as a minimum of 2.0 times the average daily flow. These levels of service shall also be applied for planning purposes to private and city utilities serving unincorporated customers unless a different level of service is authorized by the Florida Department of Environmental Protection or as adopted in a comprehensive plan.





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SANITARY SEWER ELEMENT GOALS, OBJECTIVES AND POLICIES

GOAL

The County shall provide adequate public wastewater facilities to serve existing and future development needs in a cost efficient and environmentally sound manner.

OBJECTIVE SAN 1 ENVIRONMENTAL POLICIES

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

Policy SAN 1.1 River Protection Areas

The County shall continue to require the use of central sewer for all new subdivisions consistent with Section 381.0065, Florida Statutes and Chapter 64E-6, F. A. C. within the statutory Wekiva River Protection Area or if a similar provision is enacted by Federal, State or local law, rule or regulation. Connection to central sewer service is required where available as defined by Chapter 64E-6, F. A. C. or when a County capital project is scheduled and authorized to begin construction in the County's then current adopted annual budget or construction is committed to begin within one (1) year in an enforceable schedule contained within a binding developer's agreement. The purpose of this policy is to provide central sewer services to projects where it can be demonstrated that the provision of such services will minimize adverse water quality impacts that would otherwise be caused by the use of individual septic systems.

Policy SAN 1.2 Monitoring of Rule Revisions

The County shall continue to monitor proposed revisions to Rule 17-640 F.A.C., "Domestic Wastewater Sludge" and to Rule 17-610 F.A.C., "Reuse".

Policy SAN 1.3 Required Connection to Central Sewer Service

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



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OBJECTIVE SAN 2 COST EFFECTIVENESS AND MAXIMIZATION OF USE

The County shall endeavor to correct deficiencies and maximize the use of existing facility capacity by using the most cost effective means of providing wastewater transmission, treatment and disposal facilities to the service area.

Policy SAN 2.1 Continuation of User-fee Operation

The County shall continue to construct and operate County-owned and operated wastewater facilities by means of user-fees and, when in the best interest of the County, make use of available federal and state funds.

Policy SAN 2.2 Priority of Wastewater Service

The County shall establish the priority of wastewater service provision as follows in order of priority:

- 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 correct deficiencies, should they arise, and to meet the adopted level of service standards; and
- C Service to new development areas.

Policy SAN 2.3 Minimum Construction Standards

The County shall provide for the regulation of construction, operation and maintenance of wastewater facilities will be regulated by the water and sewer design standards as set forth in the Land Development Code.

Policy SAN 2.4 Infiltration and Inflow Analysis

The County shall perform infiltration and inflow analysis as necessary for those portions of the system suspected to have infiltration and inflow problems. This effort will help to better identify system performance and maximize facility use.

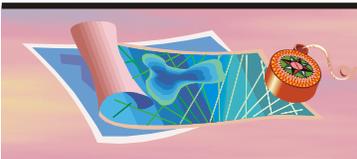
Policy SAN 2.5 Effluent Reuse

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

Policy SAN 2.6 Monitoring of County-Owned Facilities

The County shall continue to monitor all County-owned wastewater treatment plants to ensure the adequacy of effluent treatment and odor control.





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OBJECTIVE SAN 3 LEVELS OF SERVICE

The County shall establish and maintain a set level of sanitary sewer service by providing County facilities with sufficient capacity to treat and dispose of present and projected volumes of wastewater.

Policy SAN 3.1 Levels of Service Standards

The County shall maintain adopted levels of service standards through the day-to-day activities of the Department of Environmental Services and the implementation of the Capital Improvements Element and the annual budget. The following levels of service standards are adopted for each individual service area:

- A 300 gallons/day/Equivalent Residential Connection. Flow demands for commercial, industrial or other special developments differing from the flow values established by the serving utility shall be established from existing records or by estimated projections, using the best available data.
- B Peak facility capacity shall be maintained at a minimum of two times the permitted capacity.
- C These levels of service shall also be applied for planning purposes to private and city utilities serving unincorporated customers unless a different level of service is authorized by the Florida Department of Environmental Protection or as adopted in a comprehensive plan.
- D The County shall continue to operate in compliance with all rules and requirements of FDEP as well as all other applicable rules and regulations, including but not limited to, peak day and peak hour requirements.

Policy SAN 3.2 Wastewater Master Plan

The County shall update the Wastewater Master Plan every five years. As part of the update, the County shall conduct a level of service review to determine if adjustment of the existing level is necessary based on, but not limited to, historical data and projected demand.

Policy SAN 3.3 New and Replacement Equipment

The County shall maintain the established levels of wastewater service through the acquisition of new and replacement equipment in accordance with the Capital Improvements Element.

Policy SAN 3.4 Transmission Lines

The County shall ensure that future transmission lines are sized to adequately meet the projected demands of development according to development phasing needs based upon the adopted/accepted Master Water and Wastewater Plan which uses adopted future land uses as a basis for planning.



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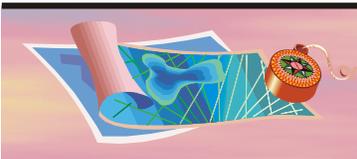
Policy SAN 3.5 Timing of Future Treatment Facility Expansion

The County shall provide for the timely planning, design, and construction of wastewater facilities necessary to provide proper treatment and reuse or disposal of wastewater and management of domestic wastewater residuals as prescribed in FDEP Rule 62-600.405.

Policy SAN 3.6 Adopted Sanitary Sewer Service Area Map

Exhibit SAN: Sewer Service Areas is the adopted sanitary sewer service area map for Seminole County. Whether central sewer usage is required for a particular piece of property within the service area is determined by reference to the Future Land Use Map Series, *Exhibit FLU: Services and Facilities By Classification* and the regulations governing that property according to its designation in the Series. Generally, when determined to be available in the urban area, new development or existing development with temporary septic shall connect to a central sewer system.





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OBJECTIVE SAN 4 COORDINATION AND URBAN SPRAWL

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

Policy SAN 4.1 Evaluation of Service Area Expansion

The County shall evaluate the impact on delivering adequate service to residents within the adopted service area as depicted in *Exhibit SAN: Sewer Service Areas* prior to the expansion of a sanitary sewer service area outside the adopted service area boundaries. The County shall not expand the service area if the adopted level of service in the existing service area cannot be maintained.

Policy SAN 4.2 Existing Package Plants

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

Policy SAN 4.3 Wholesale Agreements

The County shall enter into wholesale agreements with municipal and/or private utilities, to encourage the most cost effective and efficient provision of wastewater services, and to avoid unnecessary duplication of services during County expansion of capacity or lines when and where economically feasible and supportive of the County's long term water planning strategy.

Policy SAN 4.4 Extension of Service to New Development

The County shall continue to require new development to connect their wastewater facilities to the County's or other municipal or private utility system where possible.

Policy SAN 4.5 Methods of Providing Wastewater Treatment and Disposal Outside of the Adopted Urban Service Area

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

Continue to rely primarily upon individual septic tanks as the method of providing sewer service to the residents and other occupants outside the urban services area.

Encourage private central systems that exist as of the adoption date of this Plan to continue to provide an adequate level of service to users in their respective service areas, although the County shall discourage them from expanding their service areas.

New development outside adopted central service areas shall not be designed nor constructed with central water and/or sewer systems.

Public and private central systems may be permitted in the future if it is clearly and convincingly demonstrated by the proponents of the system expansion that a health problem exists in a built but unserved area for which there is no other feasible solution. In such cases, the service area expansion plans will be updated concurrent with an area-wide administrative land use update.



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