

CITY OF ORMOND BEACH

FLORIDA

PLANNING

MEMORANDUM

TO: Chairman Thomas and Planning Board Members

FROM: S. Laureen Kornel, AICP, Senior Planner

DATE: April 1, 2009

SUBJECT: 2009 Evaluation and Appraisal Report (EAR) Based Amendments - Utilities Element

The attached Utilities Element EAR-Based Amendments will be discussed at the April Planning Board meeting. The Planning Board was provided a hard copy of the amendments with the February Planning Board agenda and package. However, there have been some minor revisions made to the Amendments since that time. Board members are requested to refer to the attached proposed Utilities Element EAR-Based Amendments. Below please find both broad and specific changes to the policies.

Broad Changes:

1. A number of policies throughout the Utilities Element have been updated to be consistent with the Level-of-Service Standards in the Capital Improvements Element (CIE).
2. CIE related policies have been relocated to the CIE.
3. A number of policies have been deleted, consolidated or replaced with guiding policies that form the basis for operational steps stated more appropriately in the City's Land Development Code.
4. The Water Supply Work Plan and associated amendments were adopted and deemed sufficient by the Department of Community Affairs. As such, the Water Supply amendments are not a part of the EAR-based amendments and are considered a part of the existing Comprehensive Plan. Staff is in the process of updating the Comprehensive Plan to reflect same.

The following list based on the previously adopted EAR, details the proposed EAR-Based Amendments for the Utilities Element outside of the Water Supply Amendment:

- Policies 1.1.2, 1.1.3 and 1.1.4 have been relocated to the CIE.
- Policies 1.2.2, 1.3.1 (only a, b and c of this policy) and 1.3.4 are operational policies and have been deleted.
- Policy 1.4.2 has been revised to clarify only that non-rate payers are responsible for paying capital costs of connecting to a centralized sewer system.
- Policies 1.7.5 and 1.7.6 have been deleted and replaced with one new policy requiring the issuance of a Concurrency Certificate to be concurrent with the issuance of a Development Order.
- Policy 2.2.29 will be deleted since the City does not regulate herbicide or pesticide use.
- Policy 3.1.1 has been revised since a consent order is not required by the Florida Department of Environmental Protection during monitoring of a Closed Class III landfill.
- Policy 3.1.4 was updated to require utilization of reclaimed landfill sites for recreation purposes in accordance with the Recreation and Open Space Master Plan.
- Policy 3.2.5 was completed; therefore it will be deleted.
- Policy 3.2.6 was deleted since there are no plans to develop a Solid Waste Advisory Committee.
- Policy 4.2.2 was deleted since the City does not publish a newsletter.
- Objectives 1.5, 4.3 and 5.2 and their associated policies have been moved to the Intergovernmental Coordination Element.
- Policy 5.1.13 lacks substance and has been deleted.
- Policy 5.3.6 will be deleted since water delivery for agricultural operations is addressed through St. Johns River Water Management District permitting.

It is anticipated that the Transportation Element Amendments will be discussed at the May 2009 Planning Board meeting. If you have any questions feel free to contact me at (386) 676-3345 or at kornel@ormondbeach.org.

cc: Ric Goss, AICP, Planning Director

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GOALS, OBJECTIVES AND POLICIES**

UTILITIES ELEMENT
POTABLE WATER AND SANITARY SEWER SUBELEMENT
GOALS, OBJECTIVES AND POLICIES

GOAL 1.A SANITARY SEWER

THE CITY SHALL PROVIDE FOR MUNICIPAL SANITARY SEWER FACILITIES WITH SUFFICIENT CAPACITY TO COLLECT, TRANSMIT AND TREAT SANITARY SEWER FLOWS THROUGHOUT THE DEFINED SERVICE AREAS DURING THE PLANNING PERIOD AND THAT MEET OR EXCEED THE CALCULATED LEVEL-OF-SERVICE STANDARDS ESTABLISHED FOR THE SANITARY SEWER SYSTEM. SUCH FACILITIES SHALL MEET OR EXCEED STATE AND FEDERAL REQUIREMENTS FOR MUNICIPAL SANITARY SEWER TREATMENT INCLUDING THE ESTABLISHED WATER QUALITY-BASED EFFLUENT LIMITATIONS ESTABLISHED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CITY SHALL ALSO APPROPRIATELY REGULATE THE USE OF INDIVIDUAL ON-SITE WASTEWATER TREATMENT SYSTEMS AND PACKAGE TREATMENTS SYSTEMS.

GOAL 1.B POTABLE WATER

THE CITY SHALL PROVIDE FOR MUNICIPAL POTABLE WATER SUPPLY FACILITIES WITH SUFFICIENT CAPACITY FOR RAW WATER SUPPLY, TREATMENT, AND TRANSMISSION OF POTABLE WATER TO MEET CONSUMPTION DEMANDS THROUGHOUT THE DEFINED SERVICE AREAS DURING THE PLANNING PERIOD AND THAT MEET OR EXCEED THE CALCULATED LEVEL-OF-SERVICE STANDARDS ESTABLISHED FOR THE POTABLE WATER SYSTEM. SUCH FACILITIES SHALL MEET OR EXCEED STATE AND FEDERAL REQUIREMENTS FOR MUNICIPAL POTABLE WATER QUALITY, THE CITY SHALL ALSO APPROPRIATELY REGULATE THE USE OF INDIVIDUAL WELL AND POTABLE WATER PACKAGE TREATMENT SYSTEMS.

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OBJECTIVE 1.1. CAPITAL IMPROVEMENTS FUNDING

The potable water, wastewater treatment and reuse irrigation systems shall continue to be operated efficiently and effectively and on an enterprise basis with established user fees to meet the operational costs and impact fees to construct new or expand existing facilities.

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POLICY 1.1.1.

Areas that are not presently served with potable water and sanitary sewer trunk lines shall be assessed a differential impact fee.

POLICY 1.1.2.

Owners, operators and managers should undertake efforts to obtain optimum operating levels and facility longevity so as to maximize the use, effectiveness and efficiency of existing facilities.

OBJECTIVE 1.2. EFFLUENT REUSE

The City shall continue to operate a wastewater treatment plant effluent reuse distribution system that provides an orderly and cost-effective method of distributing reuse irrigation water to the several major reuse target areas and for residential irrigation.

POLICY 1.2.1.

The effluent at point of discharge shall meet or exceed the standards established by the Department of Environment Protection (FDEP).

POLICY 1.2.2.

The City's Utility Division shall each year, as the effluent reuse system expands, publically educate its customers on the benefits of participating in the re-use system.

POLICY 1.2.3

New residential developments, in the vicinity of reclaimed water transmission mains, shall install 'dry-lines' for reclaimed water service. Subdivisions with greater than 100 homes shall provide on-site storage and pumping for peak flow attenuation. Developers have the option of contributing to a reclaimed water construction fund if the development is not in an area scheduled to receive reclaimed water service.

POLICY 1.2.4

The City shall implement water conservation and reuse practices as well as demand reduction strategies that are conditions of the City's current Consumptive Use Permit.

POLICY 1.2.5

The City will implement the alternative water supply projects scheduled for completion by 2013 as identified in the Water Supply work Plan.

OBJECTIVE 1.3. INTERIM "PACKAGE-TYPE" WASTEWATER TREATMENT FACILITIES

Deleted: as established by Ordinance 89-43

Comment [A1]: These policies moved to the CIE.

Deleted: POLICY 1.1.2.¶
The "user pays" concept, which encourages the users of facilities to be financially responsible for bearing the costs of the facilities, shall be one of the primary revenue bases for financing the operation and maintenance of all publicly owned water, wastewater, stormwater, and waste management facilities and services.¶
POLICY 1.1.3.¶
Impact fees shall be used only to pay for new public facilities or improvements to existing public facilities, which are required to support new development. Impact fees shall not be used to finance the correction of existing problems.¶
POLICY 1.1.4.¶
Line extensions shall be on an "as needed" basis with developer paying for costs incurred by such extensions. Should the city determine that such facilities are needed on an area-wide basis, an assessment district may be established for that purpose. The City may also initiate a phased program of minor incremental extensions.¶

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Deleted: Before leaving the wastewater treatment plant or entering storage, the quality of the reuse water shall meet standards as set forth by the Florida Department of Environmental Protection

Deleted: Monitoring equipment and appropriately trained personnel shall be provided at the wastewater plant to ensure the continuous quality of the effluent

Deleted: POLICY 1.2.3.¶
As the effluent reuse system becomes available, the City shall utilize a public information program to inform potential users of the advantages of irrigating with reuse water including the lower costs as compared to potable water, better quality as compared to well water, reduction of demand on groundwater supplies, recharge to groundwater and possible prevention of saltwater intrusion and the possibility of reducing the need to make costly improvements to plant capacity.¶
POLICY 1.2.4.¶
New residential developments, in the vicinity of reclaimed water transmission mains, shall install 'dry-lines' for reclaimed water service. Subdivisions with greater than 100 homes shall provide on-site storage and pumping for peak flow attenuation. Developers have the option of contributing to a reclaimed water construction fund if the development is not in an area scheduled to receive reclaimed water service.¶
POLICY 1.2.5.¶
The City shall implement water conservation, and reuse practices as well as demand ... [1]

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The use of interim or package-type wastewater treatment facilities shall be regulated by the Land Development Code and restricted as necessary to protect the public health and welfare and to protect the natural resources of the City.

POLICY 1.3.1.

a. Interim or small “package-type” wastewater treatment plants with a capacity of less than 500,000 shall not be allowed in areas where improper levels of treatment and/or inadequate effluent disposal may result in adverse impacts on water resources (e.g., groundwater aquifers and surface water systems), unless each plant’s owner provides sufficient financial resources to the City to assume responsibility for operating and maintaining the collection, treatment and effluent disposal components in compliance with regulatory requirements and standards.

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Deleted: The following minimum criteria and procedures shall be adhered to in the implementation of this policy:¶
<#>A small “package-type” wastewater treatment plant is defined as a prefabricated and component-assembled plant with a treatment capacity of <500,000 gallons per day, or any plant which is considered or identified to be of an interim nature.¶
<#>The location and siting of such facilities shall be limited to areas where improperly treated effluent shall not adversely affect the quality of regional water resources by lateral surface/subsurface flow or by downward percolation.¶
Existing “package-type” or interim wastewater treatment plants currently meeting treatment and effluent quality standards may continue to be operated provided that State wastewater treatment and effluent standards are continually being met.

POLICY 1.3.2.

Interim or “package-type” wastewater treatment facilities shall be phased out upon notice that access to the system is available. The cost of such connection to the public system shall be the sole responsibility of the owner of the private system.

Deleted: connect to the municipal system when access to the system is made available. The following minimum criteria and procedures shall be adhered to in the implementation of this policy:¶

¶ “Package-type” or interim wastewater treatment plants currently meeting treatment and effluent quality standards may continue to operate, provided (... [2]

POLICY 1.3.3.

An interim package treatment plant may be permitted when all conditions for establishment of such a plant, as provided for in the Land Development Code (LDC) and City Code of Ordinances, exist.

Deleted: Where soil conditions permit, a

OBJECTIVE 1.4. INDIVIDUAL WASTE TREATMENT/DISPOSAL SYSTEMS

Individual waste treatment/disposal systems, including septic tanks, will be located, constructed and operated so that, either on an individual or cumulative basis, such facilities will not adversely impact public health or water quality.

Deleted: shall be allowed, provided that sewer lines and lift stations are constructed to City standards, impact fees for future connections to the City system are paid or bonded for, and the developer agrees to discontinue operation of (... [3]

POLICY 1.4.1.

On-site wastewater treatment in areas served by centralized wastewater treatment shall be prohibited. However, a private on-site waste water system may be permitted subject to state laws governing siting and installation provided soil conditions are conducive and the lack of a publicly owned treatment system for service exists.

Deleted: POLICY 1.3.4.¶ Existing development with central wastewater treatment will be required to connect to the City system as soon as possible after the City system is available if the existing system is found to h (... [4]

Deleted: natural resources

POLICY 1.4.2.

Property owners shall be principally responsible for paying the capital costs related to connecting to the City’s central sewer system when individual lot septic tank failures are sufficient in numbers to cause health and water quality concerns.

Deleted: Where septic tank use is appropriate, septic tank systems shall be installed in conformance with FDHRS septic tank siting and installation criteria (Chapter 10D-6, FAC). Where lands are unsuitable for septic tank systems (... [5]

Deleted: Where lot sizes are less than two (2) acres, and septic systems are in use, an assessment district will be created for the installation of sewer mains, and each property owner will be required to connect to the system if it has been (... [6]

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POLICY 1.4.3.

The City shall establish criteria in the LDC that governs the appropriateness of phasing out septic tank systems in favor of connecting to publicly owned treatment systems.

Deleted: Determinations regarding the need for, or appropriateness of, phasing out septic tank systems through the provision of centralized sewer systems and requiring connection to such systems shall be based on, but not limited to, the following conditions and considerations:¶
Septic tank densities;¶
Groundwater hydrology and quality;¶
Percolative and assimilative capacities of soils;¶
Occurrence of septic tank malfunctions;¶
Protection of public health;¶
Protection of environmental resources; and¶
Continued use of gray water septic tank systems if such systems are available

POLICY 1.4.4.

Minimum lot sizes and associated conditions shall be utilized when prohibiting the use of on-site wastewater systems or permitting such systems when publically owned centralized treatment systems are not available.

Deleted: Upon adoption of the Comprehensive Plan, the City shall prohibit the installation of on-site sewage disposal systems on sites of less than or equal to one (1) acre. Sites of greater than one (1) acre, but less than or equal to two (2) acres served by municipal potable water service, may be served by on-site sewage disposal systems provided that site environmental factors are addressed and the systems are installed in accordance with City ordinances and State regulations. If municipal potable water service is not available, the minimum site for the installation of on-site sewage disposal systems shall be two (2) acres or greater

POLICY 1.4.5.

Minimum setbacks shall be established and utilized for the location of on-site wastewater systems from the 100-year floodplains, upland/wetlands systems, and the mean high water mark of natural occurring waterbodies of courses.

Deleted: On-site waste treatment system facilities and drainfields shall not be located within seventy-five (75') feet of the 100-year floodplain; within seventy-five (75') feet of an upland/wetland interface; or within 120 feet of the mean high water mark of any surface water body or water course, whichever is greater. On-site waste treatment systems shall be located as far inland from a water body or wetlands as possible

POLICY 1.4.6.

The City shall continually enforce policies that require existing homes located on lots smaller than one acre and that have septic tank systems to connect to the City central sewer system when the gravity sewer system is within 100 feet of the lot line and the home can connect by gravity to the system. The City may create assessment districts, where appropriate, to retrofit a neighborhood with sewer lines and lift stations.

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OBJECTIVE 1.5. GROWTH MANAGEMENT

All new development shall occur in an orderly and economical manner, to the maximum extent possible, with those areas having the greatest combined complement of urban public facilities and services being targeted first. New land areas should be staged for urbanization in a contiguous manner that minimizes additional public investments.

Deleted: OBJECTIVE 1.5. INTERGOVERNMENTAL COORDINATION¶
The City shall continue to use an intergovernmental approach to the provision of an affordable and acceptable level-of-service for potable water and sanitary sewer.¶
POLICY 1.5.1.¶
The City shall coordinate with the appropriate regional agencies to investigate and, if feasible, establish raw water supply interconnections to achieve increased system reliability in the event of diminished groundwater supplies, line breaks or groundwater contamination.¶
POLICY 1.5.2.¶
The City shall continue to investigate the option of purchasing raw water by "wh... [7]

POLICY 1.5.1.

Access to municipal wastewater interceptor or major transmission lines outside of designated urban service areas shall not be permitted except in cases of overriding public benefit and when the area is included or added to a designated urban service area. Consideration shall be given to the following minimum criteria/procedures in the implementation of this Policy.

- a. Encouragement of future growth and development to occur within areas of existing or planned wastewater service.
- b. Wastewater transmission or interceptor lines shall not be extended to accommodate premature forms of development.

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POLICY 1.5.2.

Deleted: 6

Deleted: 6

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The provision of public facilities and services is intended to serve as a growth management measure, as such provision shall be undertaken and expanded within existing or identified future designated facility service areas and discouraged elsewhere, except in cases of overriding public benefit or where needed to meet the needs of existing development.

Deleted: 6

POLICY 1.5.3.

The location and timing of providing public facilities and services shall be used as methods of implementing the Comprehensive Plan and associated sound and reasonable growth management policies and plans, and for the establishment of a direct, objective relationship between the entire array of public facilities and services and land use intensities.

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POLICY 1.5.4.

The Departments of Public Works, and Planning and Zoning, and the Divisions of Public Utilities, and Engineering, shall maintain facility demand and capacity information as development orders or permits are issued and shall prepare annual summaries of capacity and demand information for each facility and service area. This shall be accomplished through the concurrency management system, as provided in the Land Development Code.

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OBJECTIVE 1.6. LEVEL-OF-SERVICE STANDARDS (LOSS) AND CONCURRENCY

Potable Water and Sanitary Sewer facilities shall be maintained and expanded as needed to meet or exceed adopted ~~LOSS~~. Minimum ~~LOSS~~ standards shall be met when planning capital improvements and reviewing applications for development approval.

Deleted: level-of-service standards

Deleted: level-of-service

Deleted: 7

POLICY 1.6.1.

The following level-of-service standards are hereby adopted and shall be used as the basis for determining the availability of facility capacity and the demand generated by development.

Raw Water: An average daily volume of 124 gallons of raw water per capita per day.

Potable Water: An average daily volume of 110 gallons per capita per day.

Sanitary Sewer: An average daily volume of 281 GPD/ERU.

Reclaimed Water: An average of daily volume of 600 GPD per ERU.

Fire Fighting: All development having a density equivalent to or greater than one unit per acre shall be served by a public/private central water system capable of delivering the required fire flows having adequate fire fighting capacity of a minimum 500 gpm or greater as determined by the City Chief Fire Official in conjunction with the City Engineer (or its equivalent where a fire protection sprinkler system is used), and a minimum 20 psi residential for a minimum two-hour

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duration depending upon the specific structure and/or use. Single-family home development at one (1) unit per acre or less, or other development of equivalent intensity (e.g., average daily water use of less than 300 gpd per acre), may be served by an individual well. All required fire flows shall be in addition to the peak daily demand established. Site specific fire fighting systems may be supplemented by effluent reuse. Design for such systems shall be in accordance with City ordinances and State regulations and such systems shall be subject to engineering design approval by the City Engineer and City Chief Fire Official.

POLICY 1.6.2.

New development shall be approved by the City only in areas where public or private facilities are available, under construction, or where funds have been committed or scheduled for construction concurrent with the impacts of the new development.

POLICY 1.6.3.

Existing development with private water supplies not having adequate flow, pressure or poor water quality for fire fighting shall be required to connect to the City water system upon notice of availability. Impact fees and meter installation charges will be borne by the property owner.

POLICY 1.6.4.

Property owners shall be responsible for full capital costs incurred by the City providing water mains and fire hydrants to areas where developments, due to poor water quality or well failure, have inadequate flow or pressure.

POLICY 1.6.5.

The City shall issue Concurrency Certificates concurrent with issuance of a Development Order signifying that facilities and services are available under the City's District issued C.U.P. for which if no building permit is applied for and received within a specified time period as provided for in the LDC that such reservation of capacity shall expire.

POLICY 1.6.6.

The withdrawals of water for potable purposes from surface or groundwater supply sources in quantities which would result in the depletion, degradation, contamination or destruction of water resources or natural systems shall be prohibited.

POLICY 1.6.7.

The quality and quantity of potable water used to protect public health and safety shall require maintenance of adequate water pressures to meet fire flow requirements, monitoring of water quality conditions in the supply system distribution lines to ensure compliance with primary drinking water standards and effluent reuse systems designed to meet the fire flow requirements.

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- Deleted: which will depend upon the availability of central water and wastewater systems
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- Deleted: Adherence to this Policy requires, at a minimum, that:¶
New development which is dependent upon central water and wastewater services shall be permitted only in areas where adequate existing potable water supply and wastewater treatment capacities are available or in areas where new facilities are scheduled to be provided.¶
Development orders and permits shall be conditioned on the availability of the facilities and services necessary to serve the proposed development.
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- Deleted: Water mains and fire hydrants may be installed in existing developments without central water systems, where it is apparent that water quality is poor or well failure (... [8])
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**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

POLICY 1.6.8.

~~A peak day, domestic demand factor shall be established to determine the required capacity for public potable water systems and sanitary sewer systems. The Utilities Master Plan shall be utilized to review and update these factors as necessary.~~

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POLICY 1.6.9.

~~The City shall update its water and sewer 'Master Plan' every five years to determine capital needs to maintain the established level of service.~~

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POLICY 1.7.11.¶

OBJECTIVE 1.7. CAPITAL FACILITIES CONSTRUCTION

~~The City shall ensure that potable water and sanitary sewer facilities are available to meet Level-of-Service Standards.~~

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POLICY 1.7.1.

~~The Capital Improvements Planning process and Capital Improvements Element shall be utilized to plan, design, and construct cost feasible capital projects in order to maintain LOSS.~~

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POLICY 1.7.2.

~~Projected demands through the year 2015 shall be met by undertaking those projects as identified in the Capital Improvements Element.~~

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POLICY 1.7.3.

~~Projects needed to correct existing deficiencies shall be given priority in the formulation and implementation of the annual work programs of the City Department responsible for the project.~~

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POLICY 1.7.4.

~~No permits shall be issued for new development which would result in an increase in demand on deficient facilities prior to completion of improvements needed to bring the facility up to standard.~~

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POLICY 1.7.5.

~~The City will maintain a five-year schedule of capital improvement needs for public facilities, to be updated annually in conformance with the review process for the Capital Improvement Element of this plan. All Capital Improvement projects in the annual budget shall be consistent with the Comprehensive Plan.~~

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POLICY 1.7.6.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

All wellfields shall be developed and protected in accordance with the provisions for Public Water Supply Wellfield Protection in the Land Development Code.

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POLICY 1.7.7.

The City shall continue to implement and develop wellfield expansion programs in accordance with guidelines established in the Utility Master Plan.

UTILITIES ELEMENT
DRAINAGE AND STORMWATER MANAGEMENT SUBELEMENT
GOALS, OBJECTIVES AND POLICIES

GOAL 2. DRAINAGE AND STORMWATER MANAGEMENT

THE CITY SHALL CONTINUE TO IMPLEMENT A DRAINAGE AND STORMWATER MANAGEMENT POLICY THAT INCORPORATES THE NEED FOR AN EFFECTIVE DRAINAGE AND STORMWATER MANAGEMENT SYSTEM; INVENTORIES EXISTING DRAINAGE AND STORMWATER MANAGEMENT SYSTEMS WITHIN THE CITY; DESCRIBES EXISTING DRAINAGE AND STORMWATER MANAGEMENT SYSTEMS AND THEIR FUNCTIONS; REQUIRES AS MUCH NATURAL STORMWATER MANAGEMENT AS IS FEASIBLE; AND SETS PERFORMANCE STANDARDS TO MAINTAIN A DESIRED LEVEL OF WATER RECHARGE AND SURFACE WATER QUALITY AND WORKS WITH OTHER ENTITIES, BOTH PUBLIC AND PRIVATE, TO ENSURE THE EXECUTION OF THIS GOAL AND ITS ASSOCIATED OBJECTIVES AND POLICIES.

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OBJECTIVE 2.1. STORMWATER MANAGEMENT UTILITY

The City shall implement the adopted Stormwater Management Plan in order to prioritize improvements and expansions to the Stormwater Management System.

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POLICY 2.1.1.

Develop a public information program that promotes public awareness of the stormwater problems and fosters public participation in the continued implementation of the Stormwater Management Plan through the capital improvements planning process.

Deleted: The Stormwater Master Plan shall address the impact that stormwater runoff from existing roads has upon receiving waters and address corrective actions. Corrective actions should include both structural and non-structural measures. Structural measures include retrofitting existing roadways with effective stormwater management facilities. Non-structural measures include increased street sweeping and increased storm sewer cleaning.

POLICY 2.1.2.

The capital Improvements Plan shall be utilized as the principal mechanism in scheduling improvements identified in the Stormwater Master Plan while the Stormwater Utility Fee shall be chief funding source for stormwater implementation.

Deleted: Due to the many inherent functions of wetlands, the City's stormwater management utility shall be designed and developed to integrate wetlands into the overall stormwater management system of the City. This may include the acquisition of wetland areas with stormwater fees or other lands purchased or acquired for the purpose of stormwater collection, treatment, and discharge.

POLICY 2.1.3.

The City's stormwater management system shall be designed and developed to connect and integrate wetlands as a primary means to clean and recharge the aquifer.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

OBJECTIVE 2.2. DEVELOPMENT REVIEW

Development activities shall be conducted ~~to ensure the public safety and, at the same time, protect and enhance surface water quality of the surface waters, the functioning values of wetlands, and other natural design features, and aquifer recharge.~~

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Deleted: Inspection programs shall be developed and continued thereafter to monitor compliance of stormwater management plans to conditions for approval and to evaluate post-development maintenance activities.

POLICY 2.2.1.

New stormwater management systems shall be built consistent with best available technologies ~~in the filed of stormwater design and treatment.~~

POLICY 2.2.2.

~~The City shall continue to perform field inspections of non-residential and residential development to ensure the stormwater system designs are built and function according to approved stormwater management plans.~~

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POLICY 2.2.3.

The utilization of ~~either Best Management Practices (BMPs') or Integrated Management Practices (IMPs)~~ shall be required during road construction, urban development, agricultural, and silviculture activities to protect natural water bodies and wetlands from pollutants and siltation.

POLICY 2.2.4.

Stormwater management systems that utilize isolated wetlands, shall provide diversion of the "first flush" of stormwater to separate facilities.

POLICY 2.2.5.

~~Sufficient water shall be retained on-site to support natural groundwater and surface water levels throughout the year, to allow aquifer recharge and avoid overdraining natural watersheds.~~

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POLICY 2.2.6.

Drainage and stormwater management systems shall use natural systems to the greatest extent possible, and land development modifications shall resemble natural features to the greatest extent practicable.

POLICY 2.2.7.

~~The following criteria shall apply w~~hen considering applications for development activities that utilize wetlands as part of the stormwater management system;

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- a. Stormwater outfalls from a development may be directed to the wetland only when free of debris and free of chemical pollutants and silt that will adversely impact wetlands, and only at rates that do not disturb vegetation or increase turbidity. Sheet flow and other overland drainage of runoff shall be controlled.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

- b. The proposed action shall not cause stormwater runoff on the wetland to take place at a rate that would exceed the natural rate.
- c. The allowed total increased runoff, in combination with the total fill allowed, shall not cause total natural flood-storage capacity of the wetland to fall below, or fall below further, the projected volume of runoff on the whole developed wetland watershed generated by a 100-year frequency, 24-hour duration rainfall event.

POLICY 2.2.8.

Owner/operators of stormwater management systems shall be effectively required to maintain their systems according to the requirements of their Development Orders and Building Permits.

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POLICY 2.2.9.

Open spaces shall be designed for multiple purposes and arranged to connect isolated wetlands so as to provide wildlife corridors and stormwater management conveyance.

POLICY 2.2.10.

Developers shall produce for examination, by the City, justified computer models and other data that objectively provide information relevant to their proposed projects.

POLICY 2.2.11.

Existing natural drainage systems shall be incorporated into the development's stormwater management system consistent with the performance standards for protection of wetlands.

POLICY 2.2.12.

Stormwater management systems shall be designed to ensure that post-development runoff does not exceed pre-development levels, in terms of the volume, rate, timing and pollutant load of runoff.

POLICY 2.2.13.

Development shall preserve or restore the natural shorelines and stabilizing shoreline vegetation of waterbodies. Buffers shall also be required along with the establishment of berm and swale systems near the shoreline to slow and filter runoff from development.

POLICY 2.2.14.

Alteration of natural stream channels shall be prohibited.

POLICY 2.2.15.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

Stormwater runoff shall be detained for a sufficient amount of time, as needed, to provide for the settling and filtration of pollutants to the maximum extent possible before discharging into a surface waterbody or recharging into the groundwater as required by State regulations.

POLICY 2.2.16.

All drainage ditch or mosquito control ditch depths shall be tied to groundwater levels so as not to adversely impact wetland functions. Ditches in excess of three feet in depth will be permitted on a case-by-case basis if sufficient information is provided to demonstrate a reasonable assurance that no adverse impact will result.

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POLICY 2.2.17.

Discharge from drainage or mosquito control ditches directly to surface water bodies or open water streams shall be discouraged and minimized. Discharge into existing compatible wetlands or constructed retention basins that have been seeded and/or vegetated with wetland plant species shall be encouraged.

POLICY 2.2.18.

Drainage or mosquito control ditches shall be constructed as ditches to meet requirements, with gently sloping sides not to exceed a 4:1 slope. The City will encourage the minimization of ditch construction, use of alternate methods of insect control, or restoration of areas currently drained by historical ditches.

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POLICY 2.2.19.

There shall be no direct surface water connection from dredged or excavated areas to natural surface water bodies or open water streams (except for marinas on a case-by case basis).

POLICY 2.2.20.

If an outfall from a dredged or excavated area is necessary to remove excess stormwater, then the outfall shall either be routed through a compatible wetland or a shallow retention basin constructed and seeded or vegetated with wetland plant species to act as a filter for runoff.

POLICY 2.2.21.

Roads shall be placed to minimize the need for cut and fill, and all cut and fill banks shall be stabilized with minimum maintenance materials to prevent continuing erosion problems.

POLICY 2.2.22.

The City shall ~~require where appropriate~~ the planting of wetland vegetation to stabilize eroding shorelines in low-wave-energy areas which helps reduce turbidity and improve water quality.

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**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

POLICY 2.2.23.

Retention and detention facilities shall be constructed consistent with design and performance criteria, which ~~include restricting public access; sloping and stabilization of banks; oil or grease contamination; discharges to an Outstanding Florida Water (OFW); use of wetlands for stormwater management and treatment shall be compatible with the ecological characteristics of such wetlands and shall not degrade the wetland by disrupting the normal range of water level fluctuations necessary for sustaining the natural hydroperiod of the wetland; and provisions, where appropriate, to utilize stormwater management systems for reclaimed water storage and/or augmentation.~~

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Requirements for facilities which receive stormwater from a potential source of
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Development which proposes to ultimately
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POLICY 2.2.24.

Environmental assessments of stormwater facilities shall be required of development on the basis of its location, magnitude, and character in order to assess the impacts of stormwater runoff and related facilities upon water quality, fish and wildlife values, floodplains, wetlands, and other environmentally sensitive areas.

POLICY 2.2.25.

No development will be allowed that poses a threat of releasing harmful quantities of pollutants to surface waters during flooding.

POLICY 2.2.26.

Roadway designs in wetland areas will provide for the capture and diversion of stormwater runoff from roadway surfaces in wetland areas to upland stormwater retention/detention ponds for treatment prior to discharge to receiving water bodies and wetlands.

POLICY 2.2.27.

The following ~~LOSS~~ shall apply in the review of development activity:

- a. The difference in the volume of runoff for a 25-year frequency, 24-hour duration storm event between pre-development and post-development conditions shall be detained on-site.
- b. The difference between the pre-development and post-development conditions for peak runoff rates for the 100-year frequency, 24-hour duration rainfall event shall be detained on-site.
- c. Individual development drainage facility capacity shall be maintained so that there is no potential flooding increase above the ~~base year~~ elevation.
- d. There shall be no degradation of water quality of the Class III waters.
- e. An equal or greater volume of storage capacity must be created for any volume of the regulatory flood that would be displaced by fill or structures. The velocity of the regulatory flood must not be adversely altered on any watercourse.

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**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

f. Areas not filled are to generally be left in their natural state. However, such areas may be used to meet landscaping and/or retention requirements, provided that the design is consistent with the then-existing City standards and ordinance requirements. Fill limitations consistent with the Land Development Code and the performance standards for each wetland classification established by the Conservation Element shall be enforced for all developments lying within areas of special flood hazard, as defined by the 100-year floodplain boundaries of the FEMA FIRM maps.

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POLICY 2.2.28.

The discharge of waters from a retention basin into surface water bodies and open water streams shall be discouraged and minimized. Discharge into existing, compatible wetlands shall be encouraged whenever possible.

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The retention basin shall be vegetated and the use of herbicides and/or pesticides within the retention basin for vegetation and insect control shall be discouraged. Instead, mechanical vegetation removal, when necessary, shall be used whenever possible.¶

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POLICY 2.2.29.

Prior to construction, the City must receive and approve the applicant's proposal of the entity to be responsible for operation and maintenance of the permitted stormwater management system with the designation of the proposed entity. The City shall receive and approve a document enumerating enforceable affirmative obligations of the entity such as a homeowner's association, to properly operate and maintain the stormwater management system for its expected life. The documents may consist of a showing of compliance with the City's acceptance of portions of the system for maintenance; articles of incorporation for condominium or homeowner's association; or plat or deed restrictions apportioning maintenance responsibility.

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POLICY 2.2.30.

All detention system surface areas shall consist of a littoral zone that is available for biological assimilation of pollutants. The extent of littoral zone requirements will be based on the ratio of vegetated littoral zone to the surface area of the pond at the controlled elevation. The width shall ensure adequate filtration of surface water runoff, provide for control of erosion and sedimentation, and offer wildlife habitat areas.

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POLICY 2.2.31.

Dry retention areas shall have at least one foot of freeboard above the 25-year designated high water table.

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OBJECTIVE 2.3. ADMINISTRATION

The City shall continue to administer, in a cost-effective and environmentally safe manner, drainage and stormwater management facilities and services consistent with the Land Development Code (**LDC**) as supported by the stormwater utility fee, user fees and impact fees. Existing deficiencies shall be corrected and the extension or increase in the capacity of the City drainage and stormwater management system shall be coordinated to meet

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

existing and future needs as determined by the Stormwater Master Plan, to maximize the use of existing facilities, and to discourage urban sprawl.

POLICY 2.3.1.

Priority for capital improvements shall be given to the correction of existing deficiencies as determined by the adopted Stormwater Master Plan.

POLICY 2.3.2.

The City shall coordinate the extension of, or increase in, the capacity of drainage and stormwater management facilities with the needs of the public by ensuring that no development is approved unless the facilities are in place or scheduled to be in place concurrent with development and consistent with the adopted level-of-service standards.

Comment [A2]: These policies moved to Intergovernmental Coordination.

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The intensity of development in floodplain areas shall continue to be subjected to the limitations on fill in the floodplain requirements contained in the Land Development Code which establishes percentage limitations on fill placement.¶

OBJECTIVE
2.4. INTERGOVERNMENTAL COORDINATION¶
The City shall coordinate with other public agencies in monitoring and enforcing permit conditions. The City shall identify technical and financial assistance available to the City.¶
POLICY 2.4.1.¶
The city shall, in cooperation with other area local governments, participate in a water quality monitoring program coordinating mechanism under the Volusia Council of Governments or the Volusia Water Alliance or an agency created specifically for these purposes. The following criteria shall apply in implementation of this policy:¶
<#>Program goals shall be established for each agency involved in the network to ensure that the monitoring program serves the needs of all involved.¶
<#>Specifics of the program need to be determined such as monitoring station location, type of data, program duration and sampling frequency.¶
<#>All analytical techniques need to be uniform.¶
<#>A quality assurance program to ensure all participants receive quality controlled and well-organized data.¶
<#>Routine dissemination of data and program review.¶
<#>Both biology and sedimentology need to be included in the program.¶
<#>Responsibility of the water quality monitoring program shall be at the local level.¶

POLICY 2.4.2.¶
The City shall continually encourage the removal of septic tanks and the treatment of stormwater runoff upon the receiving waters of the Halifax River and the Tomoka River and its tributaries to determine if controls on individual septic tank systems are adequate to protect the water or if septic tank systems must eventually be eliminated from all environmentally sensitive areas.¶

POLICY 2.4.3.¶
The City shall develop an intergovernmental coordinating mechanism with Flagler County in evaluating proposed upstream development within the Tomoka South-2 watershed and with Volusia County for proposed downstream development.¶

**UTILITIES ELEMENT
SOLID WASTE SUBELEMENT
GOALS, OBJECTIVES AND POLICIES**

GOAL 3. SOLID WASTE

THE CITY SHALL CONTINUE TO PROVIDE EITHER DIRECTLY OR BY CONTRACT WITH A PRIVATE ENTITY AN ADEQUATE SOLID WASTE COLLECTION, TRANSFER, AND RESOURCE RECOVERY SYSTEM TO MEET THE NEEDS AND DEMANDS OF THE CURRENT AND FUTURE POPULATION WHILE PROTECTING AND ENHANCING THE SOCIAL, ECONOMIC, AND ENVIRONMENTAL QUALITY OF THE CITY AND CO-OPERATING WITH THE COUNTY AS NECESSARY TO EVENTUALLY ELIMINATE THE USE OF LANDFILLS.

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OBJECTIVE 3.1. CITY LANDFILL

The City shall continue to monitor the groundwater and surface water in the vicinity of the landfill after closure to determine if the landfill has any adverse impacts on the environment.

POLICY 3.1.1.

The City will monitor its closed Class III landfill in accordance with Florida Department of Environmental Protection (FDEP) rules.

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POLICY 3.1.2.

The City shall continue to implement a program of data collection, monitoring, and periodic review of groundwater and surface water quality parameters to be able to effectively assess if any environmental impacts or health hazards may be associated with leachate.

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POLICY 3.1.3.

The City shall continue to manage a long-term monitoring program at the landfill that includes at a minimum the following:

- a. All landfill groundwater monitoring wells monitored on an annual basis.
- b. Landfill monitoring wells will be tested for water quality parameters in accordance with FDEP requirements.
- c. Periodic review of data collected and overall monitoring program results.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

d. Correction of any problem discovered by the monitoring.

POLICY 3.1.4.

The City shall ~~utilize reclaimed landfill sties for municipal recreation purposes consistent with the Recreational and Open Space Master Plan.~~

Deleted: base its plans to reclaim the existing landfill site for municipal recreational purposes as indicated in the Cultural Affairs and Recreation and Open Space Elements of the City's Comprehensive Plan only if it is compatible with the requirements of properly operating and closing the landfill

OBJECTIVE 3.2. SOLID WASTE COLLECTION

The City shall effectively and efficiently operate a solid waste collection system to maximize the use of existing facilities and services and shall provide service to all residential and non-residential establishments within the City limits.

POLICY 3.2.1.

The City shall continue ~~to~~ incrementally expand its solid waste collection system to meet the needs of new growth and to maintain existing levels-of-service.

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POLICY 3.2.2.

The City shall maintain the Solid Waste Disposal ~~and Collection as an~~ Enterprise Fund to pay for solid waste collection and transfer expenses.

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<#>Daily average commercial pick-ups per truck or route at 155.¶

POLICY 3.2.3.

The level-of-service standard ~~for determining the availability of County Landfill facility capacity and the demand generated by development shall be: four pounds per capita per day for residential, commercial and industrial waters and three pounds per capita per day for special wastes.~~

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POLICY 3.2.4.

The City shall maintain a separate trash handling system for the collection of refrigerators, freezers, appliances, (white goods) and large piles of yard trash.

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POLICY 3.2.5.¶
By 2002, the City shall complete a study for review by the City Commission on the costs and benefits of employing certain volume reduction methods prior to disposal such as composting, baling, shredding, and chipping.¶
POLICY 3.2.6.¶
The City shall encourage creation by 2000 of a Solid Waste Technical Advisory Committee under VCOG, comprised of County and City staff members to meet on a regular basis and continually review and comment on respective local government reports and to make recommendations to VCOG and local governments as appropriate.¶

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OBJECTIVE 3.3. RESOURCE RECOVERY AND VOLUME REDUCTION

The City shall continue to administer resource recovery and volume reduction practices to conserve natural resources and reduce landfill space requirements, and maximize the use of existing facilities and services.

POLICY 3.3.1.

The City shall participate in the design, implementation ~~and evaluation of local recycling and waste management programs.~~

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

POLICY 3.3.2.

Alternative disposal methods for yard trash shall be continued in cooperation with the County.

POLICY 3.3.3.

The City shall reduce the volume of non-hazardous municipal solid waste disposed of in the County landfill by thirty percent of the October FY 1995-96 volume. No more than one-half of this thirty percent shall be met with a reduction in yard trash, white goods, scrap metal, construction debris, and tires while the other half may be met with a reduction in paper goods, perishable foods, plastic goods, and metal and glass containers.

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POLICY 3.3.4.

Through the development review process, the City shall ensure that commercial and industrial establishments participate in recycling efforts.

POLICY 3.3.5.

The City shall implement recycling programs and participate in any County resource recovery programs as necessary to achieve reductions in solid waste as mandated by State law.

POLICY 3.3.6.

The City shall maintain a non-residential development recycling program which targets industrial and commercial establishments.

POLICY 3.3.7.

An adequate public participation rate in recycling shall be maintained to meet State requirements for volume reduction.

POLICY 3.3.8.

The City shall inform and educate the public about recycling and products which are not recyclable, cannot be converted or cannot be used.

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OBJECTIVE 3.4. ADMINISTRATION AND DEVELOPMENT REVIEW

The City shall continue to administer, in a cost-efficient and environmentally safe manner, a collection and transfer solid waste system that is fully supported by user fees and that is designed to effectively meet the needs of existing and future residents.

POLICY 3.4.1.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

The City's Department of Finance ~~and~~ Public Works shall ~~work together to~~ maintain a full cost accounting and reporting system for the collection and transfer of solid waste in compliance with the Solid Waste Management Act.

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POLICY 3.4.2.

The City will participate in ~~the~~ "Keep ~~Volusia~~ Beautiful" program to control the problem of littering and illegal dumping.

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POLICY 3.4.3.

The City shall ~~support~~ the County to ~~maintain~~ landfill location determination criteria ~~designed to address~~ minimum size criteria, minimum distance from residential areas, schools and hospitals, minimum distance from streams, aquifer recharge areas, and wetlands, ~~stays out of 100-year floodplain and determines maximum distance from main roads.~~

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POLICY 3.4.4.

Solid waste generated within the City limits shall continue to be collected on a regularly scheduled basis.

POLICY 3.4.5.

Residential, commercial, and industrial development shall ~~require~~ adequate landfill space to meet the solid waste needs anticipated to be generated by the proposed development activity in accordance with interim review of development activities and with the Land Development Code. All proposals for development shall include an analysis of the amount and types of solid waste to be generated and ability of the City and County to accommodate the new demand. No development shall be approved unless there is sufficient collection, transfer, and disposal resources available to meet the new demand consistent with ~~LOSS~~.

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GOAL 4. HAZARDOUS MATERIALS AND WASTE

THE PUBLIC HEALTH, SAFETY AND WELFARE SHALL BE PROTECTED FROM THE IMPROPER MANAGEMENT OF HAZARDOUS WASTES AND MATERIALS USED AND GENERATED IN AND TRANSPORTED THROUGH THE CITY.

OBJECTIVE 4.1. HAZARDOUS WASTE PROGRAM DEVELOPMENT

The City shall ~~continue its cooperation with the County to reduce improper hazardous storage and disposal.~~ The City may consider disposal options which include privatization of service or interlocal agreements with the County.

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POLICY 4.1.1.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

Hazardous waste generators shall develop and submit to the City a hazardous waste management program at site plan submittal to protect the citizens and the environment from misuse, spills, and improper disposal. The purpose of the hazardous waste management plan is to ensure the safest and most efficient use and disposal of hazardous materials.

POLICY 4.1.2.

Business/industrial park storage/transfer facilities shall, at a minimum, conform to FDEP transporter permitting requirements.

POLICY 4.1.3.

Each business/industrial park shall secure, prior to leasing or selling any lots or parcels, arrangements with an FDEP permitted hazardous waste management company to pick up and transfer waste from the park on a regularly scheduled basis.

POLICY 4.1.4.

All users and generators shall properly store and dispose of hazardous materials and waste upon adoption of this plan. The following criteria shall apply in the implementation of this Policy:

- a. Large quantity generators (companies that generate in excess of 2,200 lbs./month) and industrial/commercial parks containing generators that produce waste not suitable for recycling, exchange or reuse shall be encouraged to reduce hazardous waste volumes and to obtain necessary permits to develop on-site treatment facilities to render the waste non-hazardous.
- b. Existing Federal and State regulations relating to storage, transfer, and disposal shall be stringently enforced through coordinated efforts at both State and local levels.
- c. On-site verification of a generator compliance with applicable rules and regulations shall be made, at a minimum, once a year.

Deleted: POLICY 4.1.2.¶
The city shall publish a newsletter to provide the public on proper handling and disposal of hazardous substances. The following criteria shall apply in implementation of this Policy:¶
<#>A determination of environmentally safe procedures for the use and disposal of types of hazardous materials found in household solid waste.¶
<#>The City shall encourage public participation in the household hazardous waste collection program.¶
<#>Educate business people and the general public about hazardous materials and their proper use.¶
<#>Use of alternatives to hazardous cleaning materials.¶

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OBJECTIVE 4.2. DEVELOPMENT REGULATIONS

All development activities shall provide protection to the environment and the public welfare from any hazardous wastes consistent with the provisions of the Land Development Code.

POLICY 4.2.1.

The City shall not admit those types and quantities of industrial wastes that are harmful or damaging to the structures, processes, or operation of the sewage works.

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POLICY 4.2.2.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

The industrial user of the sewer system shall provide such preliminary treatment or handling of its waste as may be necessary to modify any objectionable characteristics or constraints.

POLICY 4.2.3.

The City shall require safe management, manufacture, transportation, usage, and disposal of hazardous materials.

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POLICY 4.2.4.

The City shall continue to require all buildings scheduled for demolition or renovation be surveyed by the applicant for the presence of asbestos. Asbestos shall be removed prior to demolition. Any asbestos removal and disposal shall be performed by a contractor licensed by the Florida Department of Professional Regulation.

Deleted: Section 104.10 of the currently

Comment [A3]: These policies moved to Intergovernmental Coordination.

POLICY 4.2.5.

The City shall enforce the asbestos removal provisions adopted in the Florida Building Code in regard to asbestos removal during demolition or construction activities.

Deleted: **OBJECTIVE 4.3. INTERGOVERNMENTAL COORDINATION¶**

The City shall cooperate with the appropriate Federal, State and local governments to provide for the maximum amount of protection feasible to the environment and to the public health, safety and welfare.¶

POLICY 4.3.1.¶

The City and the County shall work together to establish a cooperative hazardous waste management program.

The following criteria shall apply:¶

<#>Development of a County-level hazardous waste management assessment including a County/regional facility needs assessment.¶

<#>Development of site selection criteria for hazardous waste management facilities at the local/regional level.¶

<#>Adopt interlocal agreements and establish communications as needed.¶

POLICY 4.3.2.¶

The City shall coordinate with the Department of Environmental Protection for the permitting, monitoring, and enforcement of underground petroleum storage tanks in accordance with the criteria of the Florida Administrative Code.¶

POLICY 4.3.3.¶

The permitting process for hazardous waste management facilities at the local, regional, and State levels shall be coordinated to eliminate unnecessary duplication and redundancy and to reduce periods of processing time so as to encourage private industry to provide hazardous waste services.¶

POLICY 4.3.4.¶

The City will coordinate with the County, State and Federal governments to ensure that "Superfund Act" sites are cleaned up and to prevent additional pollution from the sites

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**UTILITIES ELEMENT
NATURAL GROUNDWATER RECHARGE SUBELEMENT
GOALS, OBJECTIVES AND POLICIES**

GOAL 5. POTABLE WATER SUPPLY

THE PUBLIC SHALL BE ENSURED AN ADEQUATE SUPPLY OF SAFE, POTABLE WATER WHICH IS OBTAINED FROM THE HIGHEST QUALITY SOURCE AVAILABLE AND IS PROTECTED FROM CONTAMINATION.

OBJECTIVE 5.1. DEVELOPMENT REVIEW

Natural groundwater protection standards shall be utilized in review of development activities as provided by the Land Development Code.

POLICY 5.1.1.

Saltwater intrusion shall be prevented by limiting potentially harmful water extraction and ensuring adequate recharge.

POLICY 5.1.2.

The use of native and drought-resistant vegetation in landscaping shall be encouraged by providing developers with a list of appropriate native vegetation at site plan application.

POLICY 5.1.3.

The City shall continue to deliver effluent for reuse as a component of its effluent disposal program for environmentally and economically suitable areas. The City shall consider providing economic incentives to developments, agricultural operations, and business which limit potable water consumption by using effluent reuse systems.

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POLICY 5.1.4.

The City shall continue to administer an emergency water shortage plan.

POLICY 5.1.5.

Land use decisions and development approvals shall be consistent with adopted comprehensive water basin management plans. Water supply, production facilities, conveyance lines and C.U.P.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

capacity shall be available for new site plan and/or subdivision developments, prior to issuance of development orders.

POLICY 5.1.6.

The use of procreation of native vegetation and/or drought resistant vegetation shall be required on development projects when irrigation water is drawn from sources which are critical to limiting saltwater intrusion.

Deleted: POLICY 5.1.6.¶
On-site wastewater treatment systems shall be prohibited in areas served by central wastewater treatment, and those developments which are served by package plants shall be required to tie into the centralized wastewater system once access becomes available (i.e., when within 100 feet).¶

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POLICY 5.1.7.

Industries which utilize or generate hazardous materials shall be sited and designed so as to minimize the threat of surface water or groundwater contamination.

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POLICY 5.1.8.

The City shall continue to apply regulations and procedures to control permanent water table drawdown in accordance with the County minimum environmental standards and the provisions of the Land Development Code.

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POLICY 5.1.9.

Encourage Volusia County to maintain a functioning positive (pumped) drawdown system, in its “high-rise” landfills, to continually extract the mass of accumulating leachate and properly treat it.

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POLICY 5.1.10.

Removal of the confining layer of material separating the bottom of borrow pits from the top of the Floridan Aquifer shall be prohibited as provided by the Land Development Code.

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POLICY 5.1.11.

Water management plans shall be designed to approximate pre-development recharge conditions.

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POLICY 5.1.12.

Land use planning and land development approvals shall reflect the limitations of available water supplies. The City shall continue to use its concurrency management system to limit development potential in accordance with available raw water production, treatment, distribution and permitted withdrawal capacity.

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POLICY 5.1.13.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

The watershed upstream of surface water potable water supplies shall be protected. Activities within the watershed should not reduce the volume of water available under low-flow conditions or reduce the quality of the surface water below State standards.

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POLICY 5.1.14.

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The disposal of non-hazardous wastes shall be managed and controlled to prevent surface water and groundwater contamination. The City shall continue to implement a groundwater and surface water monitoring program to detect potential contamination by leachate.

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POLICY 5.1.15.

Marinas which service boats with on-board sewage facilities shall be required to provide sewage pumpout and treatment facilities and to provide for the appropriate effluent disposal method. Such pumpout and treatment facilities shall be maintained in good working order to assure the contamination of groundwater or surface water, in accordance with the provisions of the Florida Administrative Code, (F.A.C.), does not occur.

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POLICY 5.1.16.

Industries which use hazardous materials or generate hazardous wastes shall be regulated to prohibit the release of hazardous materials in violation of State water quality standards for groundwater and surface waters.

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POLICY 5.1.17.

The withdrawal or discharge of water which alters hydroperiods, discharge volumes, in-stream velocities, surface water stages or groundwater levels so as to cause a significant, adverse effect on natural water-dependent ecosystems is prohibited. Such projects shall be permitted only in cases of overriding public benefit, such as alterations in the stage or flow of surface waters as a part of any government sanctioned program of flood control, water quality restoration, habitat restoration or exotic plant control, and shall be designed and operated so as to minimize harm to non-target organisms or natural ecosystems.

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POLICY 5.1.18.

The City shall determine water supply levels-of-service in conjunction with the St. John River Water Management District. Land development permits will be subject to those limitations.

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POLICY 5.1.19.

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The City shall issue no development orders or development permits without first consulting appropriate water suppliers to determine whether adequate water supplies to serve the development will be available no later than the anticipated date of issuance by the City of a Certificate of Occupancy or its functional equivalent. The City will also ensure that adequate

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

water supplies and facilities are available and in place prior to issuing a Certificate of Occupancy or its functional equivalent.

Comment [A4]: This section moved to Intergovernmental Coordination Element.

OBJECTIVE 5.3. WATER CONSERVATION

The City shall continue to review water conservation measures that encourage water conservation. The City shall follow all water conservation plans approved by St. John's River Water Management District as part of the City's Consumptive Use Permit (C.U.P.).

Deleted: OBJECTIVE 5.2. INTERGOVERNMENTAL COORDINATION¶
The City shall coordinate with Federal, State, regional, and other local agencies to develop intergovernmental responses to groundwater problems.¶
POLICY 5.2.1.¶

POLICY 5.3.1.

The Public Works and Utilities Department shall monitor per capita finished water consumption rates and shall develop an action plan to reduce per capita consumption if the per capita consumption exceeds by 25% the average gross per capita consumption of 110 gallons per day (gpd).

The City will encourage, through intergovernmental coordination, densities not greater than one (1) dwelling unit per five (5) acres to be established on the undeveloped portion of the Rima Ridge recharge area and in other prime recharge areas.¶
POLICY 5.2.2.¶

POLICY 5.3.2.

Potable water supplies shall be conserved to the maximum extent practicable through the continued implementation of water conservation techniques and programs. Such techniques and programs may include, but are not limited to:

The City shall continue to protect wellhead areas land use controls that provide long-term protection from contamination.¶
POLICY 5.2.3.¶

- a. The City shall work through the Water Authority of Volusia (WAV) to incentivize water conservation using low-flow showers and toilets, rain sensors for lawn irrigation, and xeriscape.
- b. The City will continue to implement and expand its program to provide for water reuse and/or reclamation and where appropriate require effluent reuse for irrigation, industrial use and other appropriate non-potable water use applications.
- c. The City shall require new development to install 'dry-lines' for reclaimed water distribution. Developments with greater than 100 units shall provide on-site storage and pumping, integrated with the stormwater management system. Under certain conditions, the developer may be allowed to contribute an equivalent value of the infrastructure into a reclaimed water construction fund.
- d. The City shall purchase a leak detection systems by 2010 which will enable water distribution crews to monitor the entire City's water distribution system through the use of leak noise loggers.

The City shall cooperate with Volusia County and other jurisdictional agencies to develop regulations on agricultural activities in recharge area.¶
POLICY 5.2.4.¶

The City shall participate in the development of groundwater basin management plans through an intergovernmental coordination mechanism such as VCOG.¶
POLICY 5.2.5.¶

The City will continue to review and comment in a timely manner on consumptive use permits issued by the SJRWMD.¶
POLICY 5.2.6.¶

The City shall continue to collaborate with the St. Johns River Water Management District, US Geolog... [15]

Deleted: POLICY 5.3.2.¶
The City shall continue to utilize a variety of potable water conservation strategies and techniques in the design of ordinances and review of development which have been incorporated into the Land Development Code.¶
POLICY 5.3.3.¶
The City shall cooperate with the... [16]

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Deleted: Development of programs and ordinances to require installation of water conserving plumbing fixtures in new or renovated building construction which are, at minimum, consistent with the requirements of the State Water Conservation Act (553.14, F.S.)

Deleted: develop and implement a leak detection program to find and curtail wasteful losses of potable water from the public water supply delivery network

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POLICY 5.3.3.

Non-potable water use demands shall be met using water of the lowest quality supply which is both available and acceptable for the intended application. Water reuse or water reclamation programs should be used, wherever economically and environmentally feasible, to reduce groundwater or surface water withdrawals for water use applications which do not require potable water.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

POLICY 5.3.4.

The City shall utilize a low pressure reverse osmosis (LPRO) treatment process which permits the use of brackish groundwater which is lower quality water source from the Upper Floridan Aquifer. Future needs may require to the City to use the Lower Floridan Acquirer as an alternative water source.

Deleted: POLICY 5.3.6.¶
Agricultural operations which use surface waters or groundwater supplies for irrigation should install the most efficient means of water delivery which is practical, economical and suitable for the crop under irrigation.¶

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Deleted: continually study the feasibility of using desalination treatment to meet water use demands. Desalination treatment should be employed where it can be shown to be economically feasible and environmentally sound

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POLICY 5.3.5.

The City shall maintain a comprehensive program responsible for educating businesses and residents of: the City's current water conservation policies, the fragility of the aquifer, methods to reuse and conserve water, well abandonment problems and rules, and encouragement of the use of drought resistant plants (xeriscape).

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POLICY 5.3.6.

The City of Ormond Beach will plan for municipal service areas or extend water and sewer services into unincorporated Volusia County in a manner consistent with the Volusia County Comprehensive Plan.

POLICY 5.3.7.

The City of Ormond Beach will implement all water conservation practices that are conditions of the C.U.P.

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OBJECTIVE 5.4. NATURAL GROUNDWATER AQUIFER PROTECTION

The City shall protect the functions of designated natural groundwater aquifer recharge areas as provided by the Land Development Code.

POLICY 5.4.1.

The City shall regulate land use and development to protect functions of the designated recharge areas.

POLICY 5.4.2.

Prime groundwater recharge areas and other recharge areas which have been identified by the ECFRPC or subsequently by the City to maintain the quality and quantity of water in aquifers from which potable water supplies are drawn, shall be protected. Activities within recharge areas shall not reduce the volume of recharge (i.e., increase the total volume of post-development runoff), or reduce the quality of groundwater below State standards.

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Deleted: (Chapter 62, F.A.C., where applicable)

POLICY 5.4.3.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

No commercial or industrial mining shall be allowed in prime groundwater recharge areas or in the watersheds of surface waters used as potable water supplies in order to prevent potentially adverse effects on water quality.

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OBJECTIVE 5.5. PUBLIC WATER SUPPLY WELL FIELD PROTECTION

The City of Ormond Beach will safeguard the public health, safety and welfare of its citizens by appropriately regulating the storage, handling, use or production of hazardous substances within the well field protection areas surrounding public water supply wells and well fields.

POLICY 5.5.1.

The City shall continue to apply regulations and procedures contained in the Land Development Code concerning Public Water Supply Well Field Protection.

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POLICY 5.5.2.

Land uses or activities which, by their nature, represent a substantial risk to the quality or quantity of water from established public well fields or the watershed of surface water supplies shall be excluded from the immediate vicinity of such well fields or surface water supplies so as to minimize the threat to the public water supply. Conversely, the siting of new public water supplies shall avoid proximity to established land uses which may harm the water supply from that source.

POLICY 5.5.3.

The storage, use, disposal or production of hazardous or toxic substances and that certain land uses involving regulated or generic substances located within the “Primary and Secondary Well Field Protection Zones” surrounding public water supply wells and well fields that are potentially harmful to the drinking water of the City will be prohibited or severely restricted.

POLICY 5.5.4.

The City shall maintain a ‘Primary Well Field Protection Zone,’ which is defined as the land area immediately surrounding any public water supply well and extending a radial distance of two hundred (200’) feet, or that area that is within the first twenty (20%) percent of the total radial distance of the cone of influence, whichever is greater.

POLICY 5.5.5.

The City shall maintain a ‘Secondary Well Field Protection Zone’ which is defined as the land area surrounding the ‘Primary Well Field Protection Zone,’ and extending a radial distance of eight hundred (800’) feet from the ‘Primary Well Field Protection Zone,’ or that area within the cone of influence exclusive of the ‘Primary Zone,’ whichever is greater.

**UTILITIES ELEMENT
GOALS, OBJECTIVES AND POLICIES**

Deleted: POLICY 5.5.6.¶
The City will strongly consider participating with the St. Johns River Water Management District's in this agency's 'Wellhead Protection Assistance Program', in order to improve the City's Comprehensive Plan's Policies and Land Development Code's regulations concerning this subject through the Water Management District's technical expertise regarding the collection of technical data, delineating the most rigorous and defensible scientifically based wellhead and aquifer protection zone(s), and the appropriate applicability of revising City policies and regulations.¶

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POLICY 5.5.7.¶
The City shall incorporate into the adopted Comprehensive Plan as part of the Natural Groundwater Aquifer Recharge Subelement by reference Figure 4b(a)-2. 'Potable Water Wells and Wellhead Protection Areas' originally produced for the City's Evaluation and Appraisal Report Data Support Document.

POLICY 1.2.3.

As the effluent reuse system becomes available, the City shall utilize a public information program to inform potential users of the advantages of irrigating with reuse water including the lower costs as compared to potable water, better quality as compared to well water, reduction of demand on groundwater supplies, recharge to groundwater and possible prevention of saltwater intrusion and the possibility of reducing the need to make costly improvements to plant capacity.

POLICY 1.2.4.

New residential developments, in the vicinity of reclaimed water transmission mains, shall install ‘dry-lines’ for reclaimed water service. Subdivisions with greater than 100 homes shall provide on-site storage and pumping for peak flow attenuation. Developers have the option of contributing to a reclaimed water construction fund if the development is not in an area scheduled to receive reclaimed water service.

POLICY 1.2.5.

The City shall implement water conservation, and reuse practices as well as demand reduction strategies that are conditions of the City’s current Consumptive Use Permit.

POLICY 1.2.6.

The City will implement the alternative water supply projects scheduled for completion by 2013 as identified in the Water Supply Work Plan.

connect to the municipal system when access to the system is made available. The following minimum criteria and procedures shall be adhered to in the implementation of this policy:

“Package-type” or interim wastewater treatment plants currently meeting treatment and effluent quality standards may continue to operate, provided that:

- (1) Each facility is properly operated and maintained and State wastewater treatment and effluent standards are satisfactorily met; and

Each facility is phased out and connected to the municipal system when economically and technically feasible as determined by the City.

When a private facility is phased out and connected to the municipal sewer system, the cost of the connection to the system is incurred by the owner of the private facility.

shall be allowed, provided that sewer lines and lift stations are constructed to City standards, impact fees for future connections to the City system are paid or bonded for, and the developer agrees to discontinue operation of the package plant and connect to the municipal sewer system when available

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POLICY 1.3.4.

Existing development with central wastewater treatment will be required to connect to the City system as soon as possible after the City system is available if the existing system is found to have deficiencies that would create a serious health or pollution problem. Property owners may be required to pay the impact fee then in effect.

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Where septic tank use is appropriate, septic tank systems shall be installed in conformance with FDHRS septic tank siting and installation criteria (Chapter 10D-6, FAC). Where lands are unsuitable for septic tank systems and centralized wastewater treatment is not available, development shall be prohibited unless an alternative on-site disposal system (e.g., “package-type” wastewater treatment plant) is deemed sufficiently effective to prevent degradation of adjacent surface waters or groundwater by the FDEP, FDHRS, and the City and provisions are made for the plant’s eventual retirement and connection of the development to a regional wastewater treatment facility

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Where lot sizes are less than two (2) acres, and septic systems are in use, an assessment district will be created for the installation of sewer mains, and each property owner will be required to connect to the system if it has been determined that septic tank failures are extensive and/or a health or serious pollution problem is apparent. Property owners will be required to pay the impact fee and the connection fee

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OBJECTIVE 1.5. INTERGOVERNMENTAL COORDINATION

The City shall continue to use an intergovernmental approach to the provision of an affordable and acceptable level-of-service for potable water and sanitary sewer.

POLICY 1.5.1.

The City shall coordinate with the appropriate regional agencies to investigate and, if feasible, establish raw water supply interconnections to achieve increased system reliability in the event of diminished groundwater supplies, line breaks or groundwater contamination.

POLICY 1.5.2.

The City shall continue to investigate the option of purchasing raw water by “wholesale agreement” from the appropriate regional agencies established for this purpose.

POLICY 1.5.3.

The City shall continue to coordinate with regional agencies the possibility of uniform standards for wellfield pumping equipment, bulk purchases of materials and water conservation.

POLICY 1.5.4.

All wastewater collection, treatment and effluent disposal systems shall be operated so as to ensure compliance with all local, State and Federal standards for treatment and effluent quality, with the intent being the provision of the most efficient, cost-effective, and environmentally sound level-of-service possible.

POLICY 1.5.5.

Intergovernmental coordination and cooperation efforts shall be undertaken to resolve issues and disputes and to accomplish efficient and cost-effective management of facilities and provision of services.

POLICY 1.5.6.

The establishment of area-wide or centralized wastewater treatment plants and service areas shall be undertaken where such is determined to be the most environmentally sound, cost effective, and locally implementable approach for the provision of wastewater services. The following minimum criteria and procedures shall be adhered to in the implementation of this Policy:

Provisions of facilities in the Ormond Utility Service Area shall be in accordance with the Wastewater Master Plan.

Plans for service area expansions shall be coordinated with adjacent entities and affected agencies to ensure that duplication of services is not being undertaken in the planning and provision of wastewater services.

There are no mandatory requirements in the unincorporated areas except as may be authorized by interlocal agreement.

POLICY 1.5.7.

Short and long-range public facility plans shall be coordinated and consistent with other comprehensive plans and other functional plans and shall also be integrated into capital improvement programs. The following minimum criteria/procedures shall be adhered to in the implementation of this Policy cluster:

Public facility and service needs shall be identified in, and planned as, part of the City's Comprehensive Plan.

All public facility and service recommendations made in local functional, comprehensive, capital improvement and related plans shall be periodically reviewed and amended, if necessary, to assure that there will be a mutually supported array of public facilities and services to meet the needs of existing and proposed land uses.

Development shall be projected for all land areas as part of comprehensive or appropriate functional studies for the estimation of public facility, service and program needs.

Master Plans shall be prepared and regularly updated in coordination with capital improvement programs and approved budgets.

Public facility and service recommendations shall be evaluated for the purpose of assuring that minimum service standards affecting the health, safety, and welfare of the public are achieved and that adverse impacts are diminished or mitigated to the maximum extent possible.

POLICY 1.5.8.

The City shall provide water and sewer services within the unincorporated areas identified in the plan in accordance with an Interlocal Agreement. Pending the consummation of an Agreement, these areas would be eligible to receive City water and sewer service if requested and if there is available capacity. The following criteria shall apply in implementation of this Policy:

Consistent with adopted plans that indicate the City of Ormond Beach as the provider of water and wastewater services in the areas identified in the most recent master plan and subsequent updates.

Consistent with State Statues awarding municipalities the right to extend services up to five (5) miles from the corporate limit (F.S. 180.02(2) and (3)).

Consistent with sound planning practices which should encourage the provider of potable water to also be the provider of wastewater treatment service (e.g., North Peninsula).

Consistent with sound planning practices which would not support the mainland disposal of effluent from the North Peninsula by the County when alternatives exist by routing effluent through the City of Ormond Beach which would avoid extensive disturbances of extremely environmentally sensitive areas (e.g., Tomoka State Park, the Tomoka Basin and its associated wetlands).

Water mains and fire hydrants may be installed in existing developments without central water systems, where it is apparent that water quality is poor or well failure is prevalent. In such cases, an assessment district may be created for the line installation.

impact fees, meter installation charges, connection of the system; special assessments will be charged to offset the cost of providing such service

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availability of adequate water supply under the City's District issued C.U.P. shall be verified by the applicant prior to development permits being issued

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POLICY 1.7.6.

The availability of sufficient capacity to treat wastewater shall be demonstrated by the applicant prior to development permits being issued.

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water used as potable water supplies shall be maintained at standards sufficient to adequately

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. Adherence to this Policy, at a minimum, shall include consideration of the following actions:

All municipal water supply systems

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OBJECTIVE 5.2. INTERGOVERNMENTAL COORDINATION

The City shall coordinate with Federal, State, regional, and other local agencies to develop intergovernmental responses to groundwater problems.

POLICY 5.2.1.

The City will encourage, through intergovernmental coordination, densities not greater than one (1) dwelling unit per five (5) acres to be established on the undeveloped portion of the Rima Ridge recharge area and in other prime recharge areas.

POLICY 5.2.2.

The City shall continue to protect wellhead areas land use controls that provide long-term protection from contamination.

POLICY 5.2.3.

The City shall cooperate with Volusia County and other jurisdictional agencies to develop regulations on agricultural activities in recharge area.

POLICY 5.2.4.

The City shall participate in the development of groundwater basin management plans through an intergovernmental coordination mechanism such as VCOG.

POLICY 5.2.5.

The City will continue to review and comment in a timely manner on consumptive use permits issued by the SJRWMD.

POLICY 5.2.6.

The City shall continue to collaborate with the St. Johns River Water Management District, US Geological Survey, and US Soil Conservation Service both in studying the surficial and Floridan aquifers and in determining the most appropriate actions to take in order to protect the resources.

POLICY 5.2.7.

The City shall maintain a water supply facilities work plan that is coordinated with St. Johns River Water Management District's District Water Supply Work Plan by updating the work plan within 18 months of an update to the District's District Water Supply Plan that affects the City.

POLICY 5.2.8.

The City will participate in the development of updates to St. Johns River Water Management District's water supply assessment and District Water Supply Plan and other water supply development-related initiatives facilitated by the District's that affect the City.

POLICY 5.3.2.

The City shall continue to utilize a variety of potable water conservation strategies and techniques in the design of ordinances and review of development which have been incorporated into the Land Development Code.

POLICY 5.3.3.

The City shall cooperate with the SJRWMD in the enforcement of the provisions of WMD emergency water shortage plans.

