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PASCO COUNTY, FLORIDA**

POTABLE WATER

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SUMMARY OF POTABLE-WATER ISSUES

Conservation and Protection of the Resource

The majority of Pasco County's potable water supply needs are met by Tampa Bay Water, a regional water-supply authority. Tampa Bay Water is contractually obligated to meet Pasco County's demand and is Pasco County's exclusive water supplier, except for limited, isolated areas where the County provides its own supply. Under conditions of normal rainfall and average water demand, the supply of potable water for Pasco County should be adequate to meet the needs of future residents through the Year 2025 and beyond. Proper planning and water-resource management require, however, that dry conditions and peak demands be anticipated in order to minimize the occurrence and discomfort of temporary water shortages. For this reason, the conservation and protection of water resources are issues in Pasco County.

In addition to the supply of raw water, equal consideration must be given to the quality of water being supplied. Care must be taken to guard against contamination in high-volume, aquifer-recharge areas; in coastal-recharge areas; and wellfield areas.

Service Delivery

Throughout the planning period, service-delivery issues will likely be raised with respect to:

- Interconnecting the water-distribution system.
- Expansion of the water-service area to developing areas.
- Maintaining adequate pressure for fire flows.
- Level and quality of water treatment.
- Programming and funding the maintenance, repair, replacement, and extension of the system.

These issues will be addressed in conjunction with standards for Level of Service, concurrency, and budgetary constraints.

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PUBLIC FACILITIES ELEMENT GOALS, OBJECTIVES, AND POLICIES

GOAL WAT 1: ENSURE AN ADEQUATE PUBLIC SUPPLY AND TREATMENT OF POTABLE WATER FOR PASCO COUNTY

OBJECTIVE WAT 1.1: LEVEL OF SERVICE STANDARDS

Establish the following minimum Level of Service standards for planning capital improvements and reviewing applications for development approval. These Level of Service standards shall be consistent both in this Comprehensive Plan and in the 10-Year Water Supply Facilities Work Plan.

POLICY WAT 1.1.1: INFRASTRUCTURE STANDARDS

Pasco County shall maintain an infrastructure standard providing for an annual average daily volume of 215 gallons of potable water per equivalent residential unit.

POLICY WAT 1.1.2: REQUIRED CAPACITY

Pasco County shall establish a peak day, domestic-demand factor of 1.67 (average daily flow) to determine the required capacity for public potable-water systems.

POLICY WAT 1.1.3: FIRE-FLOW RATES

Pasco County shall require, as a condition of development approval, the following minimum fire-flow rates at the time of application for connection to the public potable-water system:

**TABLE 10-1
FIRE-FLOW STANDARDS**

Land Uses	Gallons Per Minute
Single-Family	500
Multiple-Family	750
Commercial	1,000
Industrial	1,200

Note: For projects with multiple uses, the largest fire-flow standard will be applied.

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POLICY WAT 1.1.4: SERVICE APPLICATION

Pasco County shall require a connection to the public potable-water system, when available, as set forth in the guidelines of the Availability Determination Matrix, Table 10-1A.

TABLE 10-1A AVAILABILITY DETERMINATION MATRIX

ALL LAND USE CLASSIFICATIONS EXCEPT FOR RES-1 (RESIDENTIAL - 1 DU/GA) OR LOWER DENSITY

Category I: 1-3 ERUs and 600 GPD Flow

Must connect to gravity sewer main and/or central water system, if mains are available, as follows:

Gravity Sewer 100 Feet of Property Boundary
Water..... 600 Feet of Property Boundary

Category II: 4-24 ERUs

Must connect to force main or gravity-sewer main and/or water system, if mains are available, as follows:

Gravity or Force Main 600 Feet of Property Boundary
Water..... 1,320 Feet of Property Boundary

Category III: 25-49 ERUs

Must connect to gravity or force main and/or water main, if mains are available, as follows:

Gravity or Force Main ¼ Mile of Property Boundary
Water..... ½ Mile of Property Boundary

Category IV: 50-99 ERUs

Must connect to gravity or force main and/or water main, if mains are available, as follows:

Gravity or Force Main ½ Mile of Property Boundary
Water..... 1 Mile of Property Boundary

Category V: 100 or Greater ERUs

Must connect to gravity or force main and/or water main, if mains are available, as follows:

Gravity or Force Main 1 Mile of Property Boundary
Water..... 1½ Miles of Property Boundary

ERU = Equivalent Residential Unit
GPD = Gallons per Day

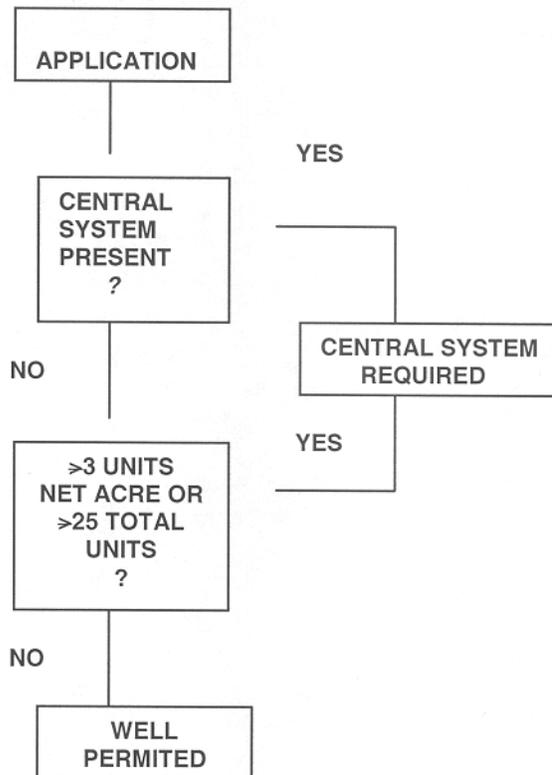
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POLICY WAT 1.1.5: INSTALLATION OF PUBLIC WATER SYSTEM

Pasco County shall require the installation of a public water system for domestic supply and fire protection where connection to an existing public water system is not available and the development is located in an area designated by the Future Land Use Map as RES-3 (Residential - 3 du/ga) or higher and:

- a. The development consists of more than twenty-five (25) residential units; or,
- b. The net residential density is more than three (3) units per net acre (see Table 10-2).

**TABLE 10-2
WATER APPLICATION PROCESS**



POLICY WAT 1.1.6: PROVISION AND DEDICATION OF PUBLIC WATER DISTRIBUTION

Pasco County shall require the developer to provide and dedicate to the appropriate utility the public water distribution network within any new development. The design criteria and construction standards for any addition to the water system shall be supplied by the appropriate utility.

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POLICY WAT 1.1.7: CONCURRENCY REQUIREMENTS FOR POTABLE WATER

Pasco County shall continue to ensure that the issuance of a development order and/or a Building Permit is conditioned upon the availability of facilities and services which meet the adopted Level of Service standards as identified in the Comprehensive Plan. Prior to the issuance of a Site Development Permit, the Development Review Division shall obtain from the applicable utility provider a service commitment letter and a Water Supply Concurrency Certificate.

OBJECTIVE WAT 1.2: EXISTING DEFICIENCIES

Continue to identify specific locations within the County where the public water distribution networks are deficient with respect to volume, pressure, quality, or fire-flow capacity.

POLICY WAT 1.2.1: IDENTIFICATION AND CORRECTION OF EXISTING DEFICIENCIES

Pasco County shall annually designate a portion of its operational and capital improvements budgets to be used for the identification and correction of existing deficiencies in its potable water distribution network as determined by the application of fire-flow performance standards contained in Table 10-1 and the maintenance schedule developed pursuant to Goal WAT 2, Objective WAT 2.3.

POLICY WAT 1.2.2: COMPLIANCE OF OTHER PUBLIC SYSTEMS

Pasco County shall require other public systems to certify compliance with the performance standards contained in Table 10-1 as a condition for granting development approval to any project within its service area.

OBJECTIVE WAT 1.3: POTABLE-WATER SOURCES

Provide adequate (meeting the Level of Service standard) public-potable-water sources supplied by Tampa Bay Water to service the needs of Pasco County through the Year 2025.

POLICY WAT 1.3.1: REQUIRED POTABLE WATER

Pasco County shall provide the capability to access, through 2033, water supplies of sufficient yield to provide all required potable water.

POLICY WAT 1.3.2: 10-YEAR REGIONAL WATER SUPPLY WORK PLAN

Pasco County shall continue to coordinate with the Southwest Florida Water Management District in the update of the 10-Year Regional Water Supply Work Plan as required by law.

POLICY WAT 1.3.3: 10-YEAR WATER SUPPLY FACILITIES WORK PLAN

The County shall maintain a Water Supply Facilities Work Plan for at least a ten (10) year planning period addressing water-supply facilities necessary to serve existing and future development within the County. This work plan shall be incorporated as an appendix to the Public Facilities Element of the Comprehensive Plan. Other elements of

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the Comprehensive Plan as noted in the work plan shall be amended to be consistent with the work plan.

POLICY WAT 1.3.4: COORDINATION AND CONSISTENCY WITH THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT REGIONAL WATER SUPPLY PLAN

The County shall coordinate with and be consistent with the Southwest Florida Water Management District Regional Water Supply Plan when submitting or amending the 10-Year Water Supply Facilities Work Plan by updating the work plan within eighteen (18) months of the update to the Southwest Florida Water Management District Regional Water Supply Plan that affects the County.

OBJECTIVE WAT 1.4: TREATMENT CAPACITY

Expand the treatment capacity of Pasco County commensurate with the growth of the service base.

POLICY WAT 1.4.1: WATER-TREATMENT CAPACITY

Pasco County shall develop water-treatment capacity to process sufficient quantities of potable water to meet the projected long-range (2025) needs of the Pasco County Master Water Supply Plan.

POLICY WAT 1.4.2: QUALITY STANDARDS

Pasco County shall treat its water supply in accordance with the Florida Department of Environmental Protection and the United States Environmental Protection Agency standards of quality.

OBJECTIVE WAT 1.5: CONSERVATION

Continue implementation of water-conservation measures throughout Pasco County.

POLICY WAT 1.5.1: INSTALLATION OF SHALLOW WELLS

Pasco County shall allow, subject to specific regulations of the Land Development Code which Pasco County shall prescribe, the installation of individual shallow wells for landscape irrigation.

POLICY WAT 1.5.2: RECOVERED WASTEWATER FOR AGRICULTURAL PURPOSES

Pasco County shall encourage the use of reclaimed water for agricultural purposes where Pasco County supplies it.

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POLICY WAT 1.5.3: WATER CONSERVATION PLAN

Pasco County will coordinate with Tampa Bay Water; the University of Florida, Institute of Food and Agricultural Services; and the Southwest Florida Water Management District in the implementation of a water conservation plan that focuses on the following methods determined to provide an adequate offset of potable water usage:

- a. Pricing Structure for Water. Pasco County shall maintain, subject to specific regulations of the Land Development Code which Pasco County shall prescribe, a progressive pricing structure such that the unit cost of water increases with increased usage.
- b. Water-Conserving Fixtures. Pasco County shall require, in accordance with specific regulations of the Land Development Code which the County may prescribe, the use of water-conserving fixtures in all new development.
- c. Pasco County shall require the use of reclaimed water for landscape irrigation where and when available, with a priority for use of reclaimed water to new residential users or other users determined to provide an adequate offset of potable-water usage.

This water-conservation plan has been incorporated into the 10-Year Water Supply Facilities Work Plan and will be evaluated to ensure consistency with the Southwest Florida Water Management District plan as updated.

POLICY WAT 1.5.4: RECLAIMED WATER PROGRAMS AND POLICIES

Pasco County shall implement and maintain the following reclaimed water programs and practices that will result in a reduction of potable water demand:

- a. Reclaimed Water Ordinance. The County shall enforce the adopted Reclaimed Water Ordinance, requiring all new development within a reclaimed water area provide a reclaimed-water system for irrigation.
- b. Continue to support the Pasco County Master Reuse System.
- c. Continue to coordinate with the Southwest Florida Water Management District on reclaimed-water policies and programs.
- d. Evaluate the Reclaimed Water Master Plan as part of the Evaluation and Appraisal Report.

POLICY WAT 1.5.5: LEAK DETECTION PROGRAM

Pasco County shall maintain an ongoing leak detection program to reduce losses of water in the transmission and distribution system.

OBJECTIVE WAT 1.6: ENVIRONMENTAL IMPACT

Minimize detrimental, environmental effects caused by groundwater development.

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POLICY WAT 1.6.1: GROUNDWATER WITHDRAWAL

Pasco County will monitor groundwater conditions for withdrawal rates on the basis of reports by the Southwest Florida Water Management District and Tampa Bay Water. Furthermore, Pasco County shall periodically review the adequacy of the Southwest Florida Water Management District and Tampa Bay Water procedures. The Board of County Commissioners shall request the Southwest Florida Water Management District or Tampa Bay Water, as appropriate, to:

- a. Provide mitigation for environmental degradation caused by excessive groundwater withdrawal. Pasco County shall request the Southwest Florida Water Management District to identify all large wells to monitor the amounts of groundwater withdrawal.
- b. Discourage major, groundwater-source development adjacent to environmentally sensitive or wetland areas, such as swamps, cypress heads, shallow ponds, or lakes.
- c. Discourage additional groundwater development within those portions of coastal Pasco County which are known to contain groundwater of subpotable quality at a depth of less than 100 feet.
- d. Assist Tampa Bay Water in its well-monitoring program to document evidence of saltwater intrusion and develop remedial strategies as necessary.
- e. Permit regional wellfields under Southwest Florida Water Management District or Tampa Bay Water, as appropriate, jurisdiction to serve a multipurpose function as public-recreational facilities.
- f. Comply with all rules of the Florida Department of Environmental Protection and the U.S. Environmental Protection Agency.
- g. Require the developer/owner, in the event of a production failure or shortfall by Tampa Bay Water, to transfer to Pasco County any and all water use permits or water-use rights if the developer/owner may have to use or consume surface or groundwater within Pasco County. Prior to the developer/owner selling water or water-use permits or water-use rights, the developer/owner shall notify Pasco County, and Pasco County shall have a right of first refusal to purchase such water-use permits or water-use rights.

POLICY WAT 1.6.2: PROTECTION OF WELLHEAD AND WELLFIELD-PROTECTION AREAS

Pasco County shall enforce regulations adopted in the Land Development Code and Future Land Use Element Policies FLU 1.2.16 and FLU 1.2.17 that restrict activities and land uses for the protection of wellhead and wellfield-protection areas.

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GOAL WAT 2: PROVIDE AN ADEQUATE POTABLE WATER DISTRIBUTION SYSTEM THROUGHOUT URBANIZED AREAS OF PASCO COUNTY

OBJECTIVE WAT 2.1: SYSTEM PRIORITIES

Limit urban sprawl by providing specific standards and guidelines for the provision of public water service in rural and low-density residential areas, including AG (Agricultural)/AG/R (Agricultural/Rural), RES-1 (Residential - 1 du/ga), and RES-3 (Residential - 3 du/ga) designated areas.

POLICY WAT 2.1.1: PROHIBITION ON EXPANSION OF PUBLIC POTABLE-WATER SERVICE

Pasco County shall not provide, nor permit the expansion of, public potable-water service to lands designated on the Future Land Use Map as AG (Agricultural) or AG/R (Agricultural/Rural) within the rural area where the use of individual wells may be permitted, except to provide and permit the expansion of public potable-water service to areas designated as conservation subdivisions and rural character areas.

POLICY WAT 2.1.2: PROVISION OF PUBLIC POTABLE WATER SERVICE IN RES-1 (RESIDENTIAL - 1 DU/GA)

Pasco County shall permit or require the provision of public potable water service to lands designated on the Future Land Use Map as RES-1 (Residential - 1 du/ga) only when the proposed service is consistent with the approved Pasco County Utilities Capital Improvement Plan and for areas designated as conservation subdivisions.

POLICY WAT 2.1.3: PROVISION OF PUBLIC POTABLE WATER SERVICE IN RES-3 (RESIDENTIAL - 3 DU/GA)

Pasco County shall provide or require provision of public water service to lands designated on the Future Land Use Map as RES-3 (Residential - 3 du/ga) or higher in accordance with Policy WAT 1.1.5 of this Element.

POLICY WAT 2.1.4: PROVISION OF POTABLE WATER - RURAL AREA

Consistent with the provision of services and facilities within the Northeast Pasco County Rural Area, Pasco County shall:

- a. Continue to rely primarily upon individual wells as the method of providing potable water to the residents and other occupants within the rural area.
- b. Require that new development within the rural area shall not be designed nor constructed with central water systems. Public and private central systems shall be, if paid for by the landowner/developer, permitted in the future if:

- (1) The development form is a Conservation Subdivision; or

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- (2) The development form is an MPUD Master Planned Unit Development in RES-1 (Residential - 1 du/ga); or
- (3) 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 areawide administrative land use update; or
- (4) It is a part of the implementation strategies for the Comprehensive Redevelopment Plan for Trilby, Lacochee, and Trilacoochee. This exception permits the extension of utilities along U.S. 301 to serve the business district uses as described in Policy FLU 1.7.4; or
- (5) It is within the I-75/U.S. 41 interchange's MU (Mixed Use)/ EC (Employment Center)/RES-9 (Residential - 9 du/ga) designated properties.

POLICY WAT 2.1.5: EXTENSION OF CENTRAL POTABLE WATER SERVICE - WELL REPLACEMENT

The County will continue to evaluate the replacement of individual wells with a central water system on a case-by-case basis within those areas where there is a finding by the Department of Health or the Southwest Florida Water Management District that a public health, safety, and welfare issue exists by and where the cost of performing the initial evaluation to determine the reasonable expectation of cost and the cost of all required improvements is borne by the benefiting properties.

OBJECTIVE WAT 2.2: DISTRIBUTION SYSTEM

Develop a potable water distribution system plan on the basis of projected water needs to the Year 2025 and the Level of Service standards contained in this Element.

POLICY WAT 2.2.1: WATER SUPPLY AND DISTRIBUTION SYSTEM

Pasco County shall continue to implement a water supply and distribution system to accommodate growth in accordance with the population and employment projections of the Pasco County Comprehensive Plan.

POLICY WAT 2.2.2: STRATEGIES FOR WATER DEMAND, SUPPLY, AND FIRE FLOW

Pasco County shall continue to implement strategies, as needed, to balance fluctuation in water demand, safeguard continuance of supply in case of plant or water main breakdown, and to provide required fire flow as contained in Table 10-1, Fire-Flow Standards.

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POLICY WAT 2.2.3: IMPACT FEES

Pasco County shall collect and use impact fees to offset the cost of capacity necessitated by the impact of new users.

POLICY WAT 2.2.4: PUBLIC ACQUISITION OF PRIVATE UTILITIES

Pasco County shall continue to assess the public acquisition of individual private utilities as a part of its utilities service programs.

OBJECTIVE WAT 2.3: SYSTEM MAINTENANCE

Maintain, repair, and replace water-system components on a regularly scheduled basis.

POLICY WAT 2.3.1: RECORDS AND PROCEDURES FOR REPAIRS

Pasco County shall maintain records and procedures for identifying needed repairs, their cost, and subsequent implementation.

POLICY WAT 2.3.2: METER FOR BILLING PURPOSES

Pasco County shall meter all existing and future water customers for billing purposes.

POLICY WAT 2.3.3: RATE SCHEDULE FOR SERVICE

Pasco County shall maintain a rate schedule based upon the cost of providing service and adjust rates and fees periodically to ensure that water revenues are sufficient to finance future expansion, repair, and replacement.

OBJECTIVE WAT 2.4: EMPLOYMENT CENTERS

To support and reinforce the County's economic-development objectives related to the creation of employment centers through the provision of public utilities.

POLICY WAT 2.4.1: PROVISION OF POTABLE WATER SERVICES FOR INDUSTRIAL AND EMPLOYMENT CENTER LAND USES

Pasco County shall evaluate whether potable water services are available or whether additional potable-water improvements are necessary in order to support the desired location of industrial land uses and employment center land uses. As a part of this evaluation, the County shall identify and discretely map industrial and employment center land uses on the Future Land Use Map.

POLICY WAT 2.4.2: CENTRAL WATER IN EMPLOYMENT CENTER AREAS

The County shall place a high priority on providing central water improvements to EC (Employment Center) Future Land Use areas.

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OBJECTIVE WAT 2.5: INTERGOVERNMENTAL COORDINATION

Coordinate all utility and transportation planning efforts to take advantage of the most economical construction and maintenance costs possible when installing utility lines, roads, and water lines.

POLICY WAT 2.5.1: COORDINATION OF WATERLINE CONSTRUCTION WITH TRANSPORTATION PLANS

Pasco County shall coordinate waterline construction priorities with the County's transportation plans to ensure that all pipes designed for subsurface, road placement are installed prior to road construction.

POLICY WAT 2.5.2: USE OF RIGHTS-OF-WAY AND UNUSED EASEMENTS

Pasco County shall use rights-of-way and unused easements for utilities, drainage, open space, or other related purposes.

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WASTEWATER

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SUMMARY OF WASTEWATER ISSUES

Regionalization of the Wastewater-Disposal System

The wastewater-disposal system of Pasco County has been consolidated from 100 small package plants into approximately ten (10) subregional treatment plants and consists of approximately 60,000 septic-tank systems.

Future Wastewater Demand

The permitted, wastewater-disposal capacity within Pasco County is approximately 26.75 million gallons per day. Based upon the assumption that per-dwelling-unit demand is approximately 193 million gallons per day, peak-month, average daily flow (inclusive of inflow and infiltration), the present capacity could adequately accommodate growth likely to be achieved through the Year 2010. By the Year 2010, additional permitted capacity will be needed. By continuing to assess the growth within the County, the treatment systems can be programmed for expansion to meet the increasing wastewater demand throughout the planning period. Additionally, by working toward achieving the conservation target of an equivalent residential unit of 200 gallons per day, the expansion of facilities can potentially be delayed or eliminated.

Level of Service

Presently, forty (40) percent of the permitted disposal capacity is publicly owned and operated. As the system grows, decisions will need to be made regarding whether or not septic systems shall be relied upon to fulfill future needs, whether or not Pasco County wishes to expand its use of private and municipal systems, and whether or not Pasco County wishes to consolidate and regionalize the wastewater-disposal system under its own control.

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GOAL SEW 3: PROVIDE AN ACCEPTABLE SANITARY SEWER SYSTEM FOR PASCO COUNTY

OBJECTIVE SEW 3.1: LEVEL OF SERVICE STANDARDS

Establish the following minimum Level of Service standards for planning capital improvements and for reviewing application for development approval.

POLICY SEW 3.1.1: SECONDARY WASTEWATER TREATMENT

Pasco County shall require advanced secondary treatment of wastewater at all new or expanded sewage treatment plants within Pasco County.

POLICY SEW 3.1.2: INFRASTRUCTURE STANDARD

Pasco County shall maintain an infrastructure standard of 200 gallons of wastewater-treatment capacity and disposal per day (annual average daily flow) for each equivalent residential unit within Pasco County.

POLICY SEW 3.1.3: CAPACITY FOR PEAK HYDRAULIC FLOWS

Pasco County shall require all wastewater treatment facilities to provide adequate capacity for peak hydraulic flows.

POLICY SEW 3.1.4: SERVICE APPLICATION FOR CONNECTION TO CENTRAL SANITARY SEWER

Pasco County shall require connection to a central sanitary sewer system for all proposed projects within Pasco County, when available, as set forth in the guidelines of the Availability Determination Matrix, Table 10-1A.

POLICY SEW 3.1.5: LOCATION OF CENTRAL SANITARY-SEWER SYSTEM

Where connection to a central system is available, a central sanitary sewer system shall be used unless the proposed project is located entirely within the AG (Agricultural) or AG/R (Agricultural/Rural) classification of the Future Land Use Map and the net residential density is not more than three (3) dwelling units/net acre.

POLICY SEW 3.1.6: INSTALLATION OF A CENTRAL WASTEWATER TREATMENT PLANT

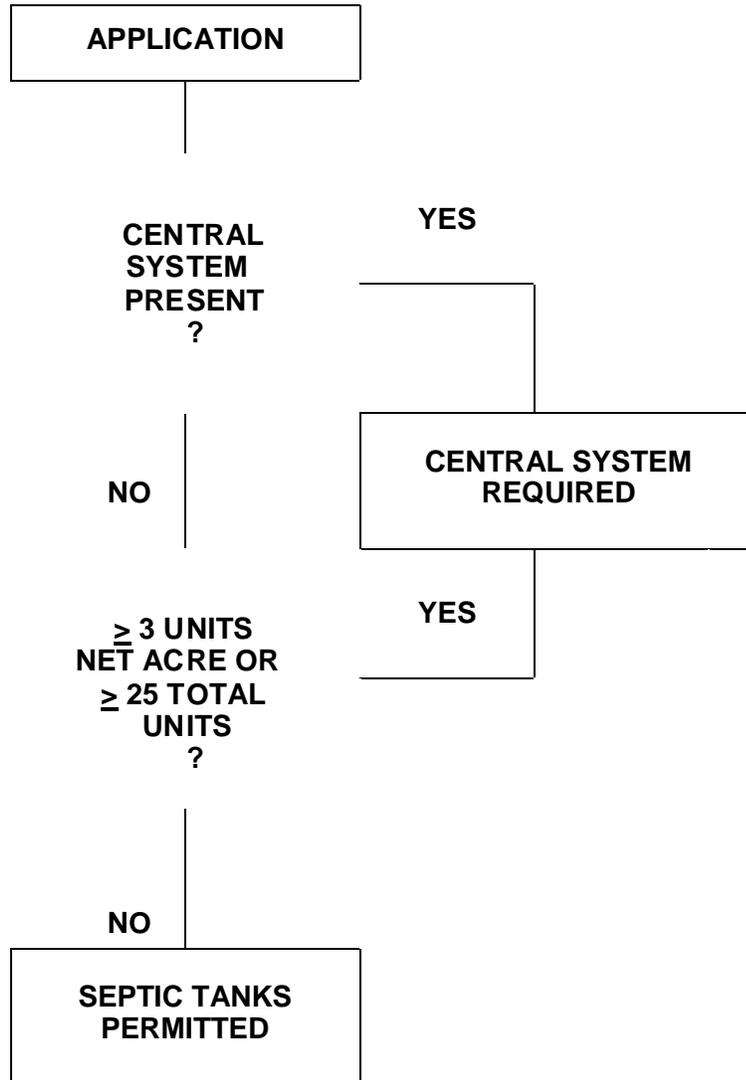
Pasco County shall require the installation of a central wastewater treatment plant (in accordance with the County Sewer Use Ordinance) where connection to an existing central sanitary sewer system is not available and the development is located in an area designated by the Future Land Use Map as RES-3 (Residential - 3 du/ga) or higher and:

- a. The development consists of more than twenty-five (25) residential units;
or

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- b. The net residential density is more than three (3) units per net acre (see Table 10-3 below).

**TABLE 10-3
SEWER APPLICATION PROCESS**



**POLICY SEW 3.1.7: EXPANSION OF EXISTING, INTERIM,
WASTEWATER TREATMENT PLANTS**

Pasco County shall permit the expansion of existing, interim, wastewater treatment plants if necessary to meet the Level of Service standards contained in Policies SEW 3.1.1 through 3.1.3 above. This policy is intended to provide relief for facilities which may become deficient prior to replacement by a regional system. In areas designated as RES-1 (Residential - 1 du/ga), permit the installation of a central plant only when the proposed service is consistent with the

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approved wastewater treatment Pasco County Utilities Capital Improvement Plan.

POLICY SEW 3.1.8: PROVISION FOR SEPTIC TANK LOCATION

Pasco County shall allow individual (septic tanks) wastewater disposal systems where central systems are neither required nor available provided that soil conditions are acceptable and environmental impacts are negligible.

POLICY SEW 3.1.9: LOCATION AND CONSTRUCTION OF SEWAGE TREATMENT AND DISPOSAL SYSTEMS

Pasco County shall require that all sewage treatment and disposal systems be located and constructed in a manner consistent with all applicable local, State, and Federal regulations, including the applicable Goals, Objectives, and Policies and Level of Service standards contained in this Comprehensive Plan.

POLICY SEW 3.1.10: REQUIREMENT FOR TREATMENT OF EFFLUENT

Pasco County shall require all uses that generate wastewater which exceeds effluent standards set forth in Chapter 110 of the County Code of Ordinances to pretreat the effluent to Pasco County standards and dispose of via a public sewer system.

POLICY SEW 3.1.11: CONNECTION OF CENTRAL SEWER FACILITIES TO SUBREGIONAL SYSTEMS

Pasco County shall require connection of all central sewer facilities to regional systems.

OBJECTIVE SEW 3.2: SUBREGIONALIZATION

Continue development of a Countywide network of regional wastewater treatment plants to include other municipal and local governments principally servicing areas designated on the Future Land Use Map as RES-3 (Residential - 3 du/ga) or higher and selected areas within other land use classifications.

POLICY SEW 3.2.1: REGIONAL SEWAGE TREATMENT PLANTS

Pasco County shall replace smaller package plants with regional sewage treatment plants (or enlarge existing plants) by 2025.

POLICY SEW 3.2.2: INTERLOCAL AGREEMENTS: MUNICIPAL BOUNDARIES FOR SANITARY SEWER SERVICE

Pasco County shall maintain and update Interlocal Agreements recognizing the municipal service area for sanitary-sewer service.

POLICY SEW 3.2.3: PROVISION OF SUBREGIONAL WASTEWATER FACILITIES

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Pasco County shall participate in agreements with developers to provide regional wastewater facilities in accordance with the Capital Improvements Element for the Future Land Use Classifications listed in this objective.

POLICY SEW 3.2.4: UPDATE TO THE UTILITIES CAPITAL IMPROVEMENT PLAN

Pasco County shall annually update the Utilities Capital Improvement Plan to indicate the general location of, and determine estimated design capacity of, all trunk mains, interceptors, and pump stations for which a need is projected in the Future Land Use Classifications listed in this objective.

POLICY SEW 3.2.5: SERVICE TO AREAS IN THE AG/R (AGRICULTURAL/RURAL) LAND USE CLASSIFICATION

Pasco County may service selected areas within the AG/R (Agricultural/Rural) Land Use Classification that are located outside the rural area when it is cost effective to do so.

POLICY SEW 3.2.6: PROVISION OF CENTRAL SEWER - RURAL AREA

Consistent with the provision of services and facilities within the Northeast Pasco County Rural Area, Pasco County shall:

- a. Continue to rely primarily upon individual septic tank systems as the method of disposal of wastewater within the rural area.
- b. Require that new development within the rural area shall not be designed nor constructed with central sewer systems. Public and private central systems shall be, if paid for by the landowner/developer, permitted in the future if:
 - (1) The development form is a conservation subdivision; or
 - (2) The development form is an MPUD Master Planned Unit Development in RES-1 (Residential - 1 du/ga); or
 - (3) 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 areawide administrative land use update; or
 - (4) It is a part of the implementation strategies for the Comprehensive Redevelopment Plan for Trilby, Lacoochee, and Trilacoochee. This exception permits the extension of utilities along U.S. 301 to serve the business district uses as described in Policy FLU 1.7.4; or

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- (5) It is within the I-75/U.S. 41 interchange MU (Mixed Use)/EC (Employment Center)/RES-9 (Residential - 9 du/ga) designated properties.

OBJECTIVE SEW 3.3: EFFLUENT DISPOSAL

Continue to implement the effluent reuse and disposal program, where permissible, to conserve the potable water resources of the County.

POLICY SEW 3.3.1: USE OF RECLAIMED WATER FOR LANDSCAPE IRRIGATION AND NONPOTABLE USE

Pasco County shall require use of reclaimed water for landscape irrigation and nonpotable use where available and permitted by the Florida Department of Environmental Protection and required by the County Code of Ordinances, with a priority for use of reclaimed water to new residential users or other users determined to provide an adequate offset of potable-water usage.

POLICY SEW 3.3.2: ENFORCEMENT OF STATE REGULATIONS FOR WATER QUALITY

Pasco County shall monitor enforcement of State regulations for water quality, especially with respect to wastewater plant operations and effluent disposal and, if necessary, develop an appropriate alternative-management strategy.

POLICY SEW 3.3.3: AGREEMENTS FOR RECLAIMED WATER FOR IRRIGATION

Pasco County shall participate in long-term agreements with landowners to accept reclaimed water for irrigation of horticultural or agricultural uses.

POLICY SEW 3.3.4: RECLAIMED WATER SYSTEM

Pasco County shall develop a reclaimed water system for irrigation of parks; golf courses; cemeteries; large agricultural, commercial, or governmental complexes; and other potential reclaimed water customers.

POLICY SEW 3.3.5: RESIDENTIAL CONNECTION TO RECLAIMED WATER SYSTEMS

The County shall promote an increase in reclaimed water system connections to residential users.

OBJECTIVE SEW 3.4: SLUDGE DISPOSAL

Dispose of septic tank and wastewater treatment plant sludge in an environmentally acceptable manner.

POLICY SEW 3.4.1: DISPOSAL OF SLUDGE

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Pasco County shall prohibit the disposal of unprocessed, liquid sludge; unprocessed, dewatered sludge; and septage on land in accordance with the County Code of Ordinances. Ensure that an appropriate disposal alternative, which meets the Florida Department of Environmental Protection's regulations, is available for disposal of unprocessed, liquid sludge; unprocessed, dewatered sludge; and septage generated within Pasco County.

POLICY SEW 3.4.2: SLUDGE DISPOSAL ALTERNATIVES

Pasco County shall encourage sludge disposal alternatives, such as selling the sludge product (residuals/biosolids) for agricultural purposes and improving the soil amendment capabilities of the product in order to maximize the cost-effective and beneficial use of sludge product (residuals/biosolids) in Pasco County.

POLICY SEW 3.4.3: SLUDGE MANAGEMENT PROGRAM

Pasco County shall maintain a comprehensive sludge management program.

OBJECTIVE SEW 3.5: SYSTEM PRIORITIES

Inhibit urban sprawl by regulating the provision of public wastewater service in rural and low-density residential areas, including AG (Agricultural)/AG/R (Agricultural/Rural), RES-1 (Residential - 1 du/ga), and RES-3 (Residential - 3 du/ga) designated areas.

POLICY SEW 3.5.1: PROHIBITION ON PROVISION OF PUBLIC WASTEWATER SERVICE IN AG (AGRICULTURAL) AND AG/R (AGRICULTURAL/RURAL) FUTURE LAND USE CLASSIFICATIONS

Pasco County shall not provide, nor permit the expansion of, public wastewater service to lands designated on the Future Land Use Map as AG (Agricultural) or AG/R (Agricultural/Rural) that are located within the rural area where the use of individual septic tanks may be permitted, except to provide and permit the expansion of public potable-water service to areas designated as conservation subdivisions and rural character areas.

POLICY SEW 3.5.2: PROVISION OF PUBLIC WASTEWATER SERVICE IN RES-1 (RESIDENTIAL - 1 DU/GA) FUTURE LAND USE CLASSIFICATION

Pasco County shall permit or require the provision of public wastewater service to lands designated on the Future Land Use Map as RES-1 (Residential - 1 du/ga) only when the proposed service is consistent with the approved Pasco County Utilities Capital Improvement Plan and for areas designated as conservation subdivisions and rural character areas.

POLICY SEW 3.5.3: PROVISION OF PUBLIC WASTEWATER SERVICE IN RES-3 (RESIDENTIAL - 3 DU/GA) FUTURE LAND USE CLASSIFICATION

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Pasco County shall provide or require public-wastewater service to lands designated on the Future Land Use Map as RES-3 (Residential - 3 du/ga) or higher in accordance with Policy SEW 3.1.6 of this Element.

POLICY SEW 3.5.4: WASTEWATER EXTENSION PROVISIONS

Pasco County will evaluate extending wastewater treatment facilities to areas within close proximity of existing County utilities. Special attention shall be paid to areas that are determined to have a high concentration of septic systems. Connection to the County system will be based upon the County Health Department's evaluation of septic system problems for those areas that are related to siting, inspection, and maintenance considerations and based upon available funding provided by the individual applicant.

OBJECTIVE SEW 3.6: ADDITIONAL TREATMENT CAPACITY

Maintain an ongoing program for wastewater treatment capacity expansion necessary to accommodate projected future, wastewater flows through 2025.

POLICY SEW 3.6.1: WASTEWATER FACILITIES EXPANSION

Pasco County shall plan for wastewater facilities expansion, including design, permitting, and construction, in compliance with capacity planning requirements as set forth in Chapter 62-600.405, Florida Administrative Code.

POLICY SEW 3.6.2: IDENTIFICATION AND CORRECTION OF EXISTING DEFICIENCIES

Pasco County shall annually designate a portion of its operational and capital improvements budgets for the identification and correction of existing deficiencies in its wastewater-disposal system as determined by the application of the standards contained in this Element.

POLICY SEW 3.6.3: USE OF IMPACT FEES

Pasco County shall collect and use impact fees to offset the cost of capacity necessitated by the impact of new users.

OBJECTIVE SEW 3.7: INTERGOVERNMENTAL COORDINATION

Coordinate all utility and transportation planning efforts to take advantage of the most economical construction and maintenance costs possible when installing utility lines, roads, and sewers.

POLICY SEW 3.7.1: COORDINATION OF SEWER CONSTRUCTION WITH TRANSPORTATION PLANS

Pasco County shall coordinate sewer-construction priorities with the County's transportation plans to ensure that all pipes designed for subsurface, road placement are installed prior to road construction.

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POLICY SEW 3.7.2: USE OF RIGHTS-OF-WAY AND UNUSED EASEMENTS

Pasco County shall use rights-of-way and unused easements for utilities, drainage, open space, or other related purposes.

OBJECTIVE SEW 3.8: EXISTING DEFICIENCIES

Reduce existing deficiencies in sanitary sewer service by five (5) percent each year until the deficiencies are eliminated.

POLICY SEW 3.8.1: IDENTIFICATION AND CORRECTION OF EXISTING DEFICIENCIES IN SEWAGE COLLECTION AND TRANSMISSION SYSTEM

Pasco County shall annually designate a portion of its operation and capital improvements budgets to be used for the identification and correction of existing deficiencies in its sewage collection and transmission system as determined by regular inspections.

OBJECTIVE SEW 3.9: EMPLOYMENT CENTERS

To support and reinforce the County's economic development objectives related to the creation of employment centers through the provision of public utilities.

POLICY SEW 3.9.1: PROVISION OF SANITARY-SEWER SERVICES FOR INDUSTRIAL AND EMPLOYMENT CENTER LAND USES

The County will evaluate whether sanitary sewer services are available or whether additional sanitary sewer improvements are necessary in order to support the desired location of industrial land uses and employment center land uses. As a part of this evaluation, the County shall identify and discretely map industrial and employment center land uses on the Future Land Use Map.

POLICY SEW 3.9.2: CENTRAL SEWER IN EMPLOYMENT CENTER AREAS

The County shall place a high priority on providing central sewer improvements to EC (Employment Center) Future Land Use areas.

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SOLID WASTE

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SUMMARY OF SOLID WASTE ISSUES

Collection

There are six (6) private and two (2) municipal refuse haulers operating in Pasco County. Since there are no formal agreements regulating service areas, service is not provided in some rural areas, and service is being duplicated in some areas.

Disposal

The management system is comprised of the East Pasco Class I Sanitary Landfill, the East Pasco Transfer Station, the West Pasco Class I and Class III Landfills, and the Pasco County Solid Waste Disposal and Resource Recovery Facility. Additional facilities include hazardous waste drop-off locations and recycling centers located throughout the County. Additionally, there are private solid waste disposal facilities throughout the County.

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GOAL SWT 4: DISPOSE OF PASCO COUNTY'S SOLID WASTE IN AN ECONOMICALLY EFFICIENT AND ENVIRONMENTALLY SOUND MANNER

OBJECTIVE SWT 4.1: LEVEL OF SERVICE STANDARDS

Establish the following Level of Service standards for planning capital improvements and reviewing applications for development approval.

POLICY SWT 4.1.1: ENVIRONMENTALLY SOUND METHODS FOR SOLID WASTE MANAGEMENT SYSTEMS

Pasco County shall continue to monitor environmentally sound methods of solid waste management adequate to address the needs of Pasco County through 2025. Needs shall be determined on the basis of a per capita, solid waste generation rate of 4.5 pounds per day.

POLICY SWT 4.1.2: COUNTY-OWNED SOLID WASTE MANAGEMENT SYSTEMS

Pasco County shall operate County-owned solid waste management systems as economically self-sufficient enterprises.

POLICY SWT 4.1.3: SEMIPUBLIC SOLID WASTE MANAGEMENT SYSTEMS

Semipublic solid waste management facilities can be integrated into the development of the solid waste management systems for Pasco County to achieve the adopted Level of Service standards.

OBJECTIVE SWT 4.2: CAPACITY

Coordinate the increase in disposal capacity to meet future needs such that Level of Service standards are maintained.

POLICY SWT 4.2.1: EXPANSION OF RESOURCE RECOVERY PLANT

Pasco County shall plan for expansion of the resource recovery plant when the disposal volume reaches eighty (80) percent of daily capacity.

POLICY SWT 4.2.2: LANDFILL/ASHFILL EXPANSION

Pasco County shall plan landfill/ashfill expansion when the disposal capacity reaches eighty (80) percent full.

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POLICY SWT 4.2.3: EXPANSION OF EAST PASCO TRANSFER STATION

Pasco County shall plan for expansion of the East Pasco Transfer Station when it reaches eighty (80) percent of daily capacity.

POLICY SWT 4.2.4: EXPANSION ALTERNATIVES ANALYSIS

The County has undertaken a study to analyze the most cost-effective options for the expansion or construction of a new waste-to-energy facility. The County shall select the most cost-effective option and begin expansion or construction of a new waste-to-energy facility by 2008.

OBJECTIVE SWT 4.3: COLLECTION

Maintain licensing and regulation of private solid waste haulers in Pasco County.

POLICY SWT 4.3.1: LOCATION OF TRANSFER

Pasco County shall locate transfer station(s) in a manner which minimizes transportation costs subject to land use and environmental constraints.

POLICY SWT 4.3.2: LICENSING WITH PRIVATE HAULERS

Pasco County shall maintain licensing with private haulers requiring disposal at the Pasco County Solid Waste Disposal and Resource Recovery Facility.

OBJECTIVE SWT 4.4: HAZARDOUS WASTE

Ensure that hazardous and infectious wastes are identified and disposed of properly.

POLICY SWT 4.4.1: PROHIBITION ON UNTREATED, INFECTIOUS WASTE

Pasco County shall prohibit untreated, infectious waste to be deposited in any sanitary landfill or waste-to-energy facility.

POLICY SWT 4.4.2: REQUIREMENTS FOR INDUSTRIAL AND HAZARDOUS WASTES

Pasco County shall require industrial and other hazardous wastes to be rendered inert before acceptance at any sanitary landfill or waste-to-energy facility.

POLICY SWT 4.4.3: SEPTAGE DISPOSAL PERMITS

Pasco County shall require Septage Disposal Permits that would identify the method of disposal, quantity, and handling procedures in accordance with Chapter 10D-6.052, Florida Administrative Code. The accepted method of disposal is at designated and permitted treatment plants.

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POLICY SWT 4.4.4: SEPTAGE DISPOSAL

Pasco County shall require disposal of septage at designated County treatment plants.

POLICY SWT 4.4.5: MANAGEMENT STRATEGIES

Pasco County shall monitor the enforcement of the Florida Department of Environmental Protection and the Environmental Protection Agency regulations and, if necessary, formulate an appropriate alternative management strategy.

POLICY SWT 4.4.6: AMNESTY PROGRAMS

Pasco County shall maintain an ongoing household hazardous waste collection facility.

POLICY SWT 4.4.7: WATER ANALYSES ON MONITOR WELLS

Pasco County shall require performance of periodic water analyses on all monitor wells at all landfill sites. Copies of the analytical report should identify permitted water-quality requirements and sampling results and shall be submitted to the appropriate regulatory agency as required by a site-specific permit.

OBJECTIVE SWT 4.5: LANDFILLS

Reduce the use of landfilling as a solid waste disposal technique in favor of resource recovery and recycling.

POLICY SWT 4.5.1: SANITARY LANDFILLS AS MAJOR PUBLIC/SEMIPUBLIC FACILITIES

Pasco County identifies all sanitary landfills as Major Public/Semipublic Facilities, as defined in the glossary of this Comprehensive Plan. Accordingly, Pasco County shall limit the location of sanitary landfills to those lands classified as P/SP (Public/Semipublic) on the Future Land Use Map.

POLICY SWT 4.5.2: LIMITATION ON LOCATION OF SANITARY LANDFILLS

Pasco County shall limit, in accordance with the Florida Department of Environmental Protection regulations and the Groundwater Protection Ordinance, the location of sanitary landfills within cones of influence of wellfields and, conversely, new wellfields which would be adversely affected by an existing landfill in high-volume aquifer-recharge areas, wellhead protection areas, and wetlands consistent with the other Elements of this Comprehensive Plan.

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POLICY SWT 4.5.3: USES FOR LANDFILL SITES

Pasco County shall evaluate the reclamations of closed landfill sites for recreational, industrial, or agricultural use.

POLICY SWT 4.5.4: ILLEGAL DUMPING ON PRIVATE AND PUBLIC PROPERTIES

Pasco County shall enforce penalties against any illegal dumping on private or public properties, in accordance with State statutes and the County Code of Ordinances, and promote education and public awareness of the problem.

OBJECTIVE SWT 4.6: RECYCLING

Develop and promote recycling initiatives in accordance with State policies and requirements.

POLICY SWT 4.6.1: RECYCLING AND REUSE TECHNOLOGY

The County shall continue to study the feasibility of recycling and reuse technology.

POLICY SWT 4.6.2: RECYCLING PROGRAMS

The County shall have a program designed to achieve a recycling rate, in accordance with State policies and goals, through the continued establishment of collection centers, in conjunction with private industry and through the maintenance of the following recycling programs:

- a. Governmental, office-paper recycling.
- b. Waste-tire recycling.
- c. Recovered materials (white goods).
- d. Lead acid and household batteries recycling.
- e. Composting of yard trash.
- f. Curbside separation and collection of recyclables.
- g. Other materials which may become recyclable in the future.

POLICY SWT 4.6.3: ANNUAL MONITORING/EVALUATION

The County will annually monitor and evaluate the success of the County's recycling programs and results in meeting or exceeding the thirty (30) percent State recycling and reduction-rate goals.

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POLICY SWT 4.6.4: PUBLIC EDUCATION PROGRAMS

The County shall continue a public education program for recycling sites that educates citizens on site locations, access, and other pertinent information.

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DRAINAGE AND GROUNDWATER RECHARGE

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SUMMARY OF DRAINAGE AND GROUNDWATER RECHARGE ISSUES

Database

With the exception of drainage systems for selected streets and highways, Pasco County does not maintain a database for storm-drainage information. Pasco County has begun the development of a database for stormwater-drainage information which will include stormwater structures and County-maintained retention/detention ponds. Pasco County has initiated a Countywide stormwater-needs assessment addressing flooding and water-quality problems and basin-specific studies in priority watersheds.

Drainage Standards

Pasco County has adopted, for its own, the drainage Level of Service standards of the Florida Department of Transportation. Although these standards are applied to all roads and highways, the County itself does not operate and maintain a public-drainage system. Moreover, there is no apparent control over stormwater quality for discharges from areas developed prior to the Southwest Florida Water Management District regulations. The need for a public drainage system can best be documented when a database has been established.

Priorities and Funding

When the data has been collected and analyzed and the stormwater-needs assessment is completed, Level of Service standards can be applied. When the standards are applied, priorities must be established which will address existing as well as future needs. These priorities will require preliminary planning and design from which preliminary costs may be derived. Since Pasco County does not levy a utility fee for drainage improvements, sources must be found to implement drainage improvements.

Water Quality

As required by Federal regulations implemented by the United States Environmental Protection Agency, the County has applied for and received a National Pollutant Discharge Elimination System Permit for a municipal, separate storm-sewer system which discharges to waters of the United States. This permit requires Pasco County to address three (3) areas pertaining to water quality: legal, technical, and financial.

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GOAL DGR 5: REDUCE EXISTING AND AVOID FUTURE FLOODING PROBLEMS AND IMPROVE SURFACE-WATER QUALITY IN PASCO COUNTY

OBJECTIVE DGR 5.1: LEVEL OF SERVICE STANDARDS

Establish the following quantity and quality Level of Service standards for planning capital improvements and reviewing applications for development approval.

WATER-QUALITY STANDARDS

POLICY DGR 5.1.1: STORMWATER DISCHARGE FROM NEW DEVELOPMENTS AND REDEVELOPMENT PROJECTS

Pasco County shall limit the rate of stormwater discharge from new developments and redevelopment activities to amounts which are equal to, or less than, the rate of discharge which existed prior to development in accordance with the rules of Chapters 40D-4 and 40D-40 administered in the Southwest Florida Water Management District, except where new developments are located within Drainage Basins of Special Concern, where the County may apply additional and more stringent stormwater-discharge regulations.

POLICY DGR 5.1.2: REGULATION ON VOLUME OF STORMWATER

Pasco County shall regulate the volume of stormwater discharge in accordance with Chapters 40D-4 and 40D-40 administered by the Southwest Florida Water Management District and local regulations, whichever is more restrictive, except where new developments are located within Drainage Basins of Special Concern, where the County may apply additional and more stringent stormwater-discharge regulations.

POLICY DGR 5.1.3: ON-SITE DRAINAGE FACILITIES

Pasco County shall require, at minimum, that on-site drainage facilities for any new project attenuate the stormwater runoff resulting from a 100-year storm.

POLICY DGR 5.1.4: PROJECT STANDARDS COUNTYWIDE

Pasco County shall require that all projects be designed and constructed to the Florida Department of Environmental Protection standards contained in Chapter 62-25, Florida Administrative Code, and the *Pasco County Stormwater Management Practices Manual*. All new (to include retrofit and redevelopment) buildings, roads, and sites shall meet the design criteria in Table 10-4.

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TABLE 10-4 DEVELOPMENT QUANTITY LEVEL OF SERVICE STANDARDS SURFACE-WATER-MANAGEMENT STANDARDS DESIGN CRITERIA

Buildings:

- a. Emergency shelters and essential services shall be designed to accommodate a minimum 100+1-year storm event/twenty-four (24) hour peak duration.
- b. All habitable structures shall be designed to accommodate a minimum 100+1-year storm event/twenty-four (24) hour duration.
- c. Finished floor elevations shall be at least one (1) foot above 100-year flood elevation.
- d. Employment/service centers shall be designed to accommodate a minimum 100+1-year storm event/twenty-four (24) hour peak duration.

Roads:

- a. Evacuation routes shall be designed to accommodate a minimum 100-year storm event/twenty-four (24) hour duration.
- b. Arterial roadways shall be designed to accommodate a minimum 100-year storm event/twenty-four (24) hour duration.
- c. Neighborhood and collector shall be designed to accommodate a minimum twenty-five (25) year storm event/twenty-four (24) hour duration. No ponding of water on the roadway is permissible at any time.
- d. Roads shall be passable during flooding. Roadway flooding less than or equal to six (6) inches in depth at the outside edge of pavement is considered passable. No ponding shall occur on roadways.

Sites:

Flooding refers to standing water in agricultural land, developed open or green space (yards and parking lots, etc.), and undeveloped lands designated for future development. This does not include areas incorporated into the stormwater or Basin Master Plan as flowways, floodplain, or flood-storage areas.

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POLICY DGR 5.1.5: PROJECT STANDARDS FOR DRAINAGE BASINS OF SPECIAL CONCERN

Pasco County shall require the following standards for Drainage Basins of Special Concern, unless the Board of County Commissioners adopts basin-specific standards pursuant to Policy DRG 5.1.6:

- a. Open-Drainage Basin
 - (1) The maximum peak rate of stormwater runoff discharge for a two (2), ten (10), twenty-five (25), and 100-year return-frequency storm event for a duration of twenty-four (24) hours.
 - (2) Runoff volume shall be limited to predevelopment conditions such that there shall be no increase in the volume of runoff resulting from development activity for a 100-year return-frequency, twenty-four (24) hour duration storm event.
 - (3) There shall be no net loss storage of volume from the most restrictive of:
 - (a) Federal Emergency Management Agency established floodplain storage.
 - (b) Storage volume below the elevation of a recorded County-observed flooding.
 - (c) Calculated ponding based upon a 100-year return-frequency, twenty-four (24) hour storm event.
 - (d) A more critical event standard defined in a County or Southwest Florida Water Management District approved study for the applicable drainage basin.
 - (4) The minimum-habitable finished floor elevation shall be above the highest elevation established by the following criteria:
 - (a) The Land Development Code, Section 701, Flood Damage Prevention.
 - (b) Recorded County-observed high-water elevation, plus one (1) foot.
 - (c) Calculated ponding elevation based upon a 100-year return-frequency, twenty-four (24) hour duration storm event, plus one (1) foot.

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- (d) A more critical event standard defined in a County or Southwest Florida Water Management District approved study for the applicable drainage basin, plus one (1) foot.
 - (5) Permit applicants may present for consideration off-site mitigation plans in accordance with the procedures contained in the Land Development Code, Section 306. The County is not obligated to accept off-site mitigation.
- b. Closed-Drainage Basin
- (1) The maximum peak rate of stormwater-runoff discharge from any development activity shall not exceed the prior existing, maximum, peak rate of stormwater-runoff discharge for a two (2), ten (10), twenty-five (25), and 100-year return-frequency storm event for a duration of twenty-four (24) hours.
 - (2) Runoff volume shall be limited to predevelopment conditions; there shall be no increase in the volume of runoff resulting from development activity for a 100-year return-frequency, ten (10) day duration storm event.
 - (3) There shall be no net loss of storage volume from the most restrictive of:
 - (a) Federal Emergency Management Agency established floodplain-storage volume.
 - (b) Storage volume below the elevation of a recorded County-observed flooding.
 - (c) Calculated ponding based upon a 100-year return-frequency, ten (10) day storm event.
 - (d) A more critical event standard defined in a County or Southwest Florida Water Management District approved study for the applicable drainage basin.
 - (4) The minimum-habitable finished floor elevation shall be the highest elevation established by the following criteria:
 - (a) The Land Development Code, Section 701, Flood Damage Prevention.
 - (b) Recorded County-observed flooding elevation, plus one (1) foot.

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- (c) Calculated ponding elevation based upon a 100-year return-frequency, ten (10) day duration storm event plus one (1) foot.
 - (d) A more critical event standard defined in a County or Southwest Florida Water Management District approved study for the applicable drainage basin, plus one (1) foot.
- (5) Permit applicants may present off-site mitigation plans to the County Administrator or his designee for consideration. The County is not obligated to accept off-site mitigation.

POLICY DGR 5.1.6: APPLICATION OF PROJECT STANDARDS FOR DRAINAGE BASINS OF SPECIAL CONCERN

Drainage Basins of Special Concern are those drainage basins or subbasins identified by the Board of County Commissioners as having either inadequate conveyance capacity or excessive ponding, requiring more stringent regulation to protect the health, safety, and welfare of the public. The Board of County Commissioners may designate Drainage Basins of Special Concern after receiving a scientific analysis of the basin that documents the need for more stringent regulatory protection. The Board of County Commissioners may establish basin-specific design standards applicable to any development activity within a specific Drainage Basin of Special Concern. Special design standards may include, but are not limited to, the following:

- Maximum-allowable peak rate of discharge per acre.
- Minimum-required retention volume required per acre.

If the Board of County Commissioners chooses not to adopt basin-specific design standards for Drainage Basins of Special Concern, the regulations under Policy DGR 5.1.5, Project Standards for Drainage Basins of Special Concern, will apply.

POLICY DGR 5.1.7: WATERSHED BASIN LEVEL OF SERVICE STANDARDS

Pasco County shall study watershed basin Level of Service standards in accordance with the Memorandum of Understanding executed between the County and the Southwest Florida Water Management District in February 2005.

POLICY DGR 5.1.8: WATER QUALITY STANDARDS

Pasco County shall require the application of Class III water quality standards as provided in Chapter 62-302, Florida Administrative Code, and local regulations to maintain water bodies for recreation and the propagation and maintenance of a healthy, well-balanced population of fish and wildlife.

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POLICY DGR 5.1.9: STORMWATER QUALITY DISCHARGE FROM DEVELOPMENT/REDEVELOPMENT

All stormwater systems for new development and redevelopment shall include features to minimize pollution from oil, suspended solids, and other pollutants. Such features shall be designed to treat the runoff resulting from the first one (1) inch of rainfall. Stormwater systems shall include additional measures designed to reduce floating and suspended solids. Higher design criteria for water treatment shall apply if such criteria are necessary to meet and maintain the adopted Level of Service or to protect Class I water bodies (such as potable, surface waters or Florida Outstanding Waters) which require higher levels of protection. The higher design criteria shall be based on a treatment system which treats 1.5 times the volume required by the Southwest Florida Water Management District.

POLICY DGR 5.1.10: ADDITIONAL WATER-QUALITY STANDARDS

Pasco County shall, in accordance with the provisions of the National Pollutant Discharge Elimination System Permit issued to the County by the Department of Environmental Protection, develop water-quality-specific, Level of Service criteria as required.

POLICY DGR 5.1.11: COMPENSATING STORAGE FOR NET ENCROACHMENT IN THE SAME BASIN

Pasco County shall require that net encroachment within the same basin containing the development and the 100-year floodplain be compensated by creation of storage for an equal or greater volume elsewhere within the 100-year floodplain. Any required compensating storage shall be provided above the seasonal high water level and below the 100-year flood stage. The 100-year floodplain areas within and immediately adjacent to a tidally influenced water body (velocity zone) shall not be subject to this Level of Service performance standard.

POLICY DGR 5.1.12: REGULATION ON USE OF FLOODPLAINS

Pasco County shall regulate the use of floodplains in accordance with the County Land Development Code and to comply with Federal requirements under the National Flood Insurance Program.

POLICY DGR 5.1.13: ELEVATIONS FOR BUILDINGS IN THE 100-YEAR FLOODPLAIN

Pasco County shall require that all proposed buildings within the 100-year floodplain shall be constructed so that finished floor elevations shall be at least one (1) foot above the elevation of the 100-year flood, as indicated by the Federal Insurance Rate Map in effect at the time of Building Permit application or as established by site survey.

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POLICY DGR 5.1.14: EDUCATION PROGRAM ON STORMWATER MANAGEMENT

Pasco County shall continue to implement a public-participation, education program on stormwater-management policies, procedures, and practices.

POLICY DGR 5.1.15: REGULATION ON MINING, EXCAVATION, AND FILLING OF FLOODPLAINS

Pasco County shall regulate mining, excavation, and filling of floodplains in accordance with appropriate State, Federal, and local regulations. Mitigation measures and Best Management Practices relating to drainage shall be taken during construction activities to ensure that water quality is not degraded during the land clearing and construction of development. No cutting, clearing, grading, or filling shall be conducted on any site under development unless appropriate devices have been installed to minimize pollution, to control erosion, and to remove sediment from surface-water runoff. Appropriate techniques shall also be utilized to stabilize and revegetate disturbed areas as soon as possible.

POLICY DGR 5.1.16: AMENDMENT TO LEVEL OF SERVICE STANDARDS

Pasco County shall amend the Level of Service standards of this section, if desired, at such time as the Southwest Florida Water Management District standards change or other standards are established, or if the County determines other standards are warranted based upon an appropriate study.

POLICY DGR 5.1.17: SOLUTIONS FOR FLOOD-PRONE AREAS

The County will evaluate the purchase of floodplain areas and the retrofit of stormwater systems into older developed areas to identify potential solutions to flood-prone areas.

POLICY DGR 5.1.18: COORDINATION WITH THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

The County shall continue and enhance coordination with the Southwest Florida Water Management District to reassess floodplain areas in the County.

POLICY DGR 5.1.19: CUMULATIVE-IMPACTS ANALYSIS

By 2009, the County shall assess the effectiveness of a cumulative-impacts analysis for stormwater management within the development review process.

OBJECTIVE DGR 5.2: MAJOR FACILITIES DESIGN AND MAINTENANCE STANDARDS

Establish criteria to identify, construct, or reconstruct major drainage facilities which will be maintained by Pasco County according to a regular schedule.

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POLICY DGR 5.2.1: SWALED CROSS SECTIONS FOR NEW DRAINAGEWAYS

Pasco County shall require all new drainageways to use swaled, rather than steep-sided, cross sections where possible.

POLICY DGR 5.2.2: REQUIREMENTS FOR DETENTION/RETENTION BASINS

Pasco County shall construct, or require to be constructed, detention/retention basins in accordance with local regulations.

POLICY DGR 5.2.3: ON-SITE DETENTION AND TREATMENT OF STORMWATER RUNOFF

Pasco County shall require all new developments to provide on-site detention and treatment of stormwater runoff to remove oils, floatables, silt, sediment, nutrients, and heavy metals.

POLICY DGR 5.2.4: OWNERSHIP AND MAINTENANCE OF DRAINAGE SYSTEMS

Pasco County shall require community associations, homeowner associations, developers, and other third parties to retain ownership and maintenance of drainage systems.

POLICY DGR 5.2.5: EXCAVATION REQUIREMENTS FOR RETENTION/DETENTION BASINS

Pasco County shall prohibit excavation of any retention/detention basin to a depth which adversely affects the Floridan aquifer.

POLICY DGR 5.2.6: STORMWATER-SYSTEM DESIGN REQUIREMENTS

Pasco County shall require stormwater systems to be designed to decrease velocity, enhance percolation, and allow suspended solids to settle out. This policy shall not be construed to prohibit certain components, such as bridge or culvert crossings, which may increase velocity with no adverse impact on properties upstream.

POLICY DGR 5.2.7: DEDICATION OF DRAINAGE EASEMENTS FOR MAINTENANCE

Pasco County shall require dedication of drainage easements by developers in order for the County to have access for maintenance.

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OBJECTIVE DGR 5.3: HYDROLOGIC IMPACTS

Regulate development in a manner that will minimize adverse hydrological impacts.

POLICY DGR 5.3.1: REQUIREMENTS TO MINIMIZE ADVERSE IMPACTS TO WETLANDS

Pasco County shall require development in any area adjacent to environmentally significant wetlands to be situated, designed, and constructed so as to minimize the adverse impacts on the beneficial characteristics and functions of wetlands and critical linkages.

POLICY DGR 5.3.2: RESTORATION OF WETLANDS

Pasco County shall require the restoration of altered and disturbed wetlands.

OBJECTIVE DGR 5.4: MASTER DRAINAGE PLAN

By 2015, implement fifty (50) percent of the priority recommendations contained in the Pasco County Stormwater Management Master Plan to be updated by 2008, which provides for improvements to the primary drainage system.

POLICY DGR 5.4.1: PRIORITIES FOR STORMWATER IMPROVEMENTS

Pasco County shall establish the following general priorities among stormwater improvements as recommended in the Pasco County stormwater-management plan:

- a. Correction of existing deficiencies which cause flooding on roadways designated as County evacuation routes.
- b. Correction of existing deficiencies in urbanized areas.
- c. Correction of existing deficiencies in rural areas.
- d. New facilities to be provided concurrently with new development.

POLICY DGR 5.4.2: UTILIZATION OF RIGHTS-OF-WAY AND EASEMENTS FOR DRAINAGE

Pasco County shall address drainage problems in a systematic and cost-effective manner and may, upon their discretion, utilize existing rights-of-way and easements supplemented by acquisition.

POLICY DGR 5.4.3: MAINTENANCE OF EROSION AND SEDIMENTATION-CONTROL DEVICES

Pasco County shall require regular maintenance of erosion and sedimentation-control devices of all public and private drainage systems.

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POLICY DGR 5.4.4: MAINTENANCE OF MAJOR DRAINAGEWAYS

Pasco County shall continue to provide routine maintenance of major drainage-ways, whether natural or manmade.

POLICY DGR 5.4.5: EXPANSION OF COUNTY'S AQUATIC WEED CONTROL PROGRAM

Pasco County shall expand the County's Aquatic Weed Control Program Countywide.

POLICY DGR 5.4.6: WATER-QUALITY MONITORING THROUGH FEDERAL REGULATIONS

Pasco County shall fund water-quality monitoring as required by Federal regulations.

OBJECTIVE DGR 5.5: STORMWATER MANAGEMENT

Pursue stormwater-management techniques which minimize the need for pipes, concrete culverts, or other facilities designed to increase conveyance.

POLICY DGR 5.5.1: USE OF NATURAL WATER STORAGE AREAS FOR STORMWATER MANAGEMENT

Pasco County shall use natural water storage areas for retention, infiltration, and evapotranspiration of stormwater where consistent with other applicable local, State, and Federal regulations.

POLICY DGR 5.5.2: PROTECTION OF NATURAL DRAINAGE FEATURES FOR STORMWATER MANAGEMENT

Pasco County shall protect natural drainage features, such as streams, lakes, wetlands, and estuaries, and the natural function of these features for conveyance, storage, and treatment of stormwater runoff.

POLICY DGR 5.5.3: USE OF EXISTING NATURAL WATER-STORAGE SYSTEMS FOR RUNOFF

Pasco County shall use existing natural water-storage systems for runoff, such as bayheads and cypress domes, wherever possible, to minimize the need for artificial drainage facilities.

OBJECTIVE DGR 5.6: INTERGOVERNMENTAL COORDINATION

Develop Interlocal Agreements and other appropriate arrangements with cities, counties, and the Southwest Florida Water Management District to ensure coordination on a drainage-basin basis.

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POLICY DGR 5.6.1: MAINTENANCE SCHEDULE

Pasco County shall develop a maintenance schedule in accordance with elements of the Pasco County stormwater management plan, so that other governmental entities can organize their maintenance efforts.

OBJECTIVE DGR 5.7: STORMWATER UTILITY

Develop a stormwater funding program to address storm drainage improvements in Pasco County.

POLICY DGR 5.7.1: CORRECTION OF EXISTING DEFICIENCIES IN PUBLIC DRAINAGE FACILITIES

Pasco County shall conduct studies to identify potential solutions to drainage deficiencies and seek funding sources to correct existing deficiencies.

POLICY DGR 5.7.2: ALLOCATION OF REVENUES TO FUND WATER-QUALITY MONITORING

Pasco County shall fund water-quality monitoring using revenues. Additional water-quality monitoring may be required and funded by specific development projects as deemed appropriate for development order approval.

POLICY DGR 5.7.3: ALLOCATION OF FUNDS FOR PUBLIC DRAINAGE PROJECTS

Pasco County shall allocate funds for public drainage projects in areas that have had a detailed, stormwater study prepared. Drainage studies shall define the flooding and water-quality problems, provide a prioritized list of solutions to the problems, and estimate the cost of the necessary improvements.

POLICY DGR 5.7.4: STORMWATER UTILITY EVALUATION

By 2008, the County will initiate the evaluation of a Countywide program for stormwater management, which shall include the evaluation of the use of a stormwater utility.

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GOAL DGR 6: PROTECT THE FUNCTIONS OF NATURAL DRAINAGE FEATURES AND SURFICIAL-AQUIFER RECHARGE

OBJECTIVE DGR 6.1: GROUNDWATER RECHARGE

Provide protections for high aquifer-recharge areas.

POLICY DGR 6.1.1: REGULATIONS FOR LOT COVERAGE AND IMPERVIOUS SURFACE OF LAND USES IN HIGH AQUIFER-RECHARGE AREAS

Pasco County shall limit the lot coverage and/or the amount of impervious surface of land uses located in high aquifer-recharge areas.

POLICY DGR 6.1.2: PROHIBITION ON LANDFILLS, HAZARDOUS-WASTE DISPOSAL, AND OTHER INCOMPATIBLE USES IN HIGH AQUIFER-RECHARGE AREAS

Pasco County shall prohibit sanitary (Class I and Class II) landfills, hazardous-waste disposal, and other incompatible uses within the high aquifer-recharge areas.

POLICY DGR 6.1.3: ESTABLISHMENT OF AQUIFER-RECHARGE PROVISIONS

Pasco County will protect the high aquifer-recharge areas within the Northeast Pasco County Rural Area through the development policies of the Future Land Use Element as provided in Objective FLU 1.2. In addition, Pasco County shall protect high aquifer-recharge areas in other portions of the County through an amendment to the Land Development Code by 2008 to create site-design-based standards that help to protect the function of the natural, groundwater, aquifer-recharge areas through the limitation of impervious surfaces, the appropriate management of stormwater runoff, and regulation of septic-tank uses.

OBJECTIVE DGR 6.2: STORMWATER MANAGEMENT REGULATIONS

Develop and adopt, by 2007, a comprehensive stormwater management ordinance, including Best Management Practices.

POLICY DGR 6.2.1: DRAINAGE AND STORMWATER MANAGEMENT PRACTICES

Pasco County shall implement drainage and stormwater management practices which:

- a. Regulate stormwater quality, quantity, and recharge.

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- b. Require the use of a detention/retention basin or natural wetland systems as a means of compliance with postdevelopment and predevelopment, stormwater-discharge rates.
- c. Establish specific criteria for shoreline management.
- d. Prevent deprivation of adequate water and nutrients to natural systems.
- e. Establish a program to assign maintenance responsibilities for all stormwater pipe, swale, retention, detention, and management facilities.
- f. Develop criteria for retention/detention facilities and water bodies to ensure mosquito-control techniques are employed.
- g. Require the use of retention-basin designs that address soil conditions (percolation capacity), groundwater elevations, and the temporal distribution of rainwater events.
- h. Require that side slopes on all retention/detention basins be stabilized by grass or other means that are acceptable to the County.
- i. Encourage the use of minimum, side slopes along the perimeter of wet-detention areas, such as manmade lakes.
- j. Expand the County's water-quality-testing capability to include the monitoring of surface waters, the evaluation of stormwater-pollution-abatement practices, and the provision of vital background data for analysis and detection of water-quality problems.
- k. Provide funding for operation and maintenance of County stormwater management facilities.
- l. Discourage the removal of shoreline vegetation and the establishment of bulkheads.

OBJECTIVE DGR 6.3: DRAINAGE BASINS

Protect the quality of lakes, rivers, streams, marine and freshwater wetlands, other watercourses, and natural drainageways and drainage basins in Pasco County.

POLICY DGR 6.3.1: DESIGN OF DRAINAGE SYSTEMS TO PREVENT CHANNELIZATION OF STORMWATER

Pasco County shall design drainage systems which do not alter the natural function of natural surface-water bodies.

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POLICY DGR 6.3.2: PROTECTION OF NATURAL WATER BODIES, WATERCOURSES, AND WETLANDS

Pasco County shall encourage the appropriate use of natural water bodies, watercourses, and wetlands for water-quality improvement with all necessary environmental and design controls. Adequate erosion and sedimentation-control practices shall be used to protect natural water bodies, watercourses, and wetlands from siltation and runoff from development and agricultural activities.

POLICY DGR 6.3.3: PROHIBITION ON DRAINAGE OF WETLANDS

Pasco County shall prohibit the drainage of wetlands and submerged lands unless permitted by the appropriate agencies; i.e., the Southwest Florida Water Management District and the Florida Department of Environmental Protection.

POLICY DGR 6.3.4: PRESERVATION OF WETLAND AND TRANSITIONAL VEGETATION

Pasco County shall preserve wetland and transitional vegetation located in floodplains, buffer zones, critical linkages, and native-habitat areas as defined by the Conservation and Coastal Zone Elements.

POLICY DGR 6.3.5: PROHIBITION ON ALTERING NATURAL WATERCOURSES

Pasco County shall prohibit the widening, straightening, stabilizing, or otherwise altering of natural watercourses except in cases of overriding public interest.

POLICY DGR 6.3.6: STORMWATER BASIN EVALUATION

By 2007, Pasco County will initiate the evaluation of a Countywide program for stormwater management, which shall include the evaluation of basin and sub-basin impacts of stormwater runoff.

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AMENDMENTS TO THE PUBLIC FACILITIES ELEMENT

BCC Adoption Date	Effective Date	Supplement ID	Ordinance Number	Revised Components	Type
10/23/1990	11/1/1990	Settlement Agreement	90-14	Public Facilities Element	Settlement Agreement
7/16/1991	7/22/1991	91-1	91-13	Public Facilities Element	Amendment
8/18/1992	8/28/1992	92-1 (DCA 92-2)	92-14	Public Facilities Element	Amendment
2/14/1995	4/5/1991	94-2 (DCA 95-1)	95-02	Public Facilities Element	Amendment
8/12/1997	12/19/2000	97-1A (DCA 97-1ER)	97-11	Public Facilities Element	Amendment
9/28/1999	12/19/2000	Compliance Agreement	99-22	Public Facilities Element	Compliance Amendment
9/3/2000	N/A	Settlement Agreement Case No. 99-4936GM	N/A	Public Facilities Element	Amendment
10/17/2000	12/19/2000	Amendments Pursuant to Case No. 99-4936GM	00-17	Public Facilities Element	Amendment
12/5/2006	12/5/2006	Settlement Agreement	06-18	Public Facilities Element	Settlement Agreement
12/5/2006	1/26/2007	Settlement Agreement	06-37	Public Facilities Element	Settlement Agreement
1/8/2008	3/31/2008	CPAL08-1(14)	08-10	SWT 4.2.4; DGR 5.4; DGR 5.7.4; DGR 6.1.3	Text Amendments
11/25/08	4/17/09	10-Year Water Supply Facilities Work Plan	08-50	Public Facilities Element and Public Facilities Element Appendix	Text Amendments

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PUBLIC FACILITIES ELEMENT APPENDIX

POTABLE WATER: 10-YEAR WATER SUPPLY FACILITIES WORK PLAN

(INCORPORATED BY REFERENCE)