

A photograph of a beach at sunset, with the sun low on the horizon and its light reflecting on the water and sand. A large, semi-transparent circular graphic is overlaid on the image, centered in the upper half. The text is positioned in the upper left quadrant of the image.

**Plans Reviewed in Selecting
Management Practices
Technical Memorandum**
Coastal Georgia Regional Water
Planning Council

Cumberland Island

**Supplemental Material
Initial Recommended Coastal Georgia
Regional Water Plan**

May 2011



*Cumberland Island
photo courtesy of the Georgia
Department of Industry,
Trade & Tourism*

The Coastal Georgia Regional Water Planning Council (RWPC) conducted a comprehensive review of existing local and regional water management plans and relevant related documents to frame the selection of management practices. The Coastal Council boundary along with the counties and major towns within the region are shown on Figure 1.

As summarized in Table 1, the types of plans/studies that were reviewed to support identification and selection of management practices for the Coastal Georgia Region consisted of the following:

- Comprehensive Work Plans (local and regional scale)
- Regional infrastructure and permitting plans
- EPD databases (permitted withdrawals, planned projects, and proposed reservoirs)
- State-wide guidance documents (conservation, cost, and water planning)
- Best Management Practices (forestry, agriculture, and stormwater management)
- Water quality studies (basin, watershed, and local scale)
- TMDL evaluations

When possible, successful management practices already planned for and/or used in the region formed the basis for the water management practices selected by the Coastal Council.



Figure 1: Coastal Georgia RWPC Boundary

Table 1: Plans Reviewed in Selecting Management Practices

Plan Type or Specific Title	Regional Resource(s) Impacted (Watershed/ Aquifer)	Organization or Entity Associated With Plan	Date of Plan	Description of Relevant Plan Content (i.e., Practices currently planned for and/or in use in the Region to form the basis for the Council's selected water management practices)
Review of Local Comprehensive Plans	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers; Floridan Aquifer	Coastal Georgia Regional Commission	2010	Identifies potentially relevant management practices identified by Regional Commission based on their review of local Comprehensive Plans.
The Regional Plan of Coastal Georgia	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers; Floridan Aquifer	Coastal Georgia Regional Commission	2010	Outlines various performance standards (management activities) that can be implemented by local utilities, stakeholders, and/or developers to meet prescribed standards for water supply, wastewater, and stormwater management activities in the region.
Coastal Georgia Water and Wastewater Permitting Plan for Managing Saltwater Intrusion	Floridan Aquifer	Coastal Region: Red Zone (Chatham County, southern portion of Effingham County, small portion of Glynn County near Brunswick), Yellow Zone (Bryan and Liberty Counties), Green Zone (Bulloch, Camden, Long, and McIntosh Counties, and the remainder of Effingham and Glynn Counties)	2006	Depending on zone, sets limits on amount of groundwater withdrawals from Upper Floridan Aquifer, establishes conservation and reuse requirements for public and private water utilities, agricultural providers, and industries, requires a diversification of source water, and monitoring of the Floridan Aquifer.
Georgia's Water Conservation Implementation Plan	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers; Floridan Aquifer	State of Georgia	2010	Outlines water conservation strategies for individual water use sectors to reduce resource withdrawals by promoting more efficient application and use of the water.
Georgia Comprehensive State-wide Water Management Plan	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers; Floridan Aquifer	State of Georgia	2008	Provides state-wide policies and management practices to guide regional planning of the State's water resources.

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Supplemental Guidance for Regional Planning Contractors: Water Management Practices Cost Comparison	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers; Floridan Aquifer	State of Georgia (EPD document)	2010	Provides a "universe" of potential surface water and groundwater management practices and related unit costs.
EPD databases for permitted withdrawals, proposed reservoirs, and planned projects	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers; Floridan Aquifer	Coastal Georgia Region	2010	Provides information on planned and/or permitted water and wastewater withdrawals/projects.
Georgia's Best Management Practices for Forestry	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	Forestry industry in Coastal Region	2009	Outlines forest management practices such as streamside management zones, forested filter strips, mechanical site preparation, firebreaks, and main haul roads.
Georgia Environmental Facilities Authority, Georgia Inventory and Survey of Feasible Sites for Water Supply Reservoirs	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	Coastal Georgia Region	2008	Provides a summary of potential reservoir sites and general information regarding location and storage.
Best Management Practices for Georgia Agriculture	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	Agriculture community in Georgia (The Georgia Soil and Water Conservation Commission)	2007	A compilation of BMPs that address surface water quality and include an estimate of the effectiveness and relative cost of each BMP.
Georgia Stormwater Management Manual (Volumes 1 and 2) and Coastal Stormwater Supplement	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	Local government and development community	2001, 2009	Provides guidance on principles of effective urban stormwater management. It also provides an overview of integrated stormwater management, site and watershed level stormwater management, floodplain management, and technology and tools for implementing stormwater management programs.

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Georgia Manual for Erosion and Sediment Control	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	Georgia Soil and Water Conservation Commission	2000	Provides technical guidance for formulating plans for land-disturbing activities in accordance with the 1975 Erosion and Sedimentation Act.
Georgia Water Stewardship Act 2010 (Senate Bill 370)	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers; Floridan Aquifer	Georgia DNR, EPD, Georgia Department of Community Affairs, Georgia Forestry Commission, Georgia Department of Community Health, Georgia Department of Agriculture, Georgia Soil and Water Conservation Commission	2010	Develops programs and incentives for water conservation and reporting measureable progress of such programs. Requires establishment of BMPs by public water systems, changes related to watering restrictions, classification and continuation/discontinuation of certain farm use water permits, water metering requirements, requirement of high-efficiency plumbing fixtures and landscape practices.
Altamaha River Basin Management Plan	Altamaha River	Glynn, Long, and McIntosh Counties	2004	Describes recommended management practices that relate to water quality control and wetland/riparian restoration, protection, and enhancement.
Ogeechee River Basin Management Plan	Canoochee and Ogeechee Rivers	Bryan, Bulloch, Chatham, Effingham, Liberty, Long, and McIntosh Counties	2001	Describes recommended management practices that relate to water quality control and wetland/riparian restoration, protection, and enhancement.
Satilla River Basin Management Plan	Satilla River	Camden and Glynn Counties	2002	Describes recommended management practices that relate to water quality control and wetland/riparian restoration, protection, and enhancement.
Savannah River Basin Management Plan	Savannah River	Chatham and Effingham Counties	2001	Describes recommended management practices that relate to water quality control and wetland/riparian restoration, protection, and enhancement.
St. Marys River Basin Management Plan	St. Marys River	Camden County	2002	Describes recommended management practices that relate to water quality control and wetland/riparian restoration, protection, and enhancement.

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Final TMDL Evaluation Reports and TMDL Implementation Plans	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	Coastal Region	1998-2008	Describes development of TMDL for specified parameters (e.g., DO, fecal coliform) and the associated action plans to mitigate the impairment at a watershed level.
Comprehensive Wildlife Conservation Strategy	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	State of Georgia (GADNR)	2005	Identifies goals, strategies, and partnerships for various conservation themes such as habitat restoration, maintaining viable populations of high-priority species, minimizing impacts from development, and increasing public awareness of high priority species.
Handbook for Developing Watershed Plans to Restore and Protect Our Waters	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	Coastal Georgia Region (EPA document)	2008	Provides information on developing and implementing watershed management plans and an overview of management measures that might be selected.
Georgia State Water Plan, Water Quality Modeling: Guidance for Management Practice Evaluation	Altamaha, Canoochee, Ogeechee, Satilla, Savannah, and St. Marys Rivers	State of Georgia (CH2M Hill document)	2010	Provides guidance on management practices for controlling nonpoint source pollution from agriculture, forestry, and urban land uses. Includes pollutant removal efficiencies for select practices.
Coastal Georgia Water, Sewer, and Stormwater Inventory Summary Report	Upper Floridan Aquifer	Coastal Georgia Regional Commission (Thomas & Hutton document)	2009	Assesses existing condition of region-specific infrastructure, identifies capacity and inefficiency issues, determines areas for service connections, and recommends future strategies to enhance the area's utility infrastructure.
Glynn County Watershed Protection Plan	Altamaha and Cumberland-St. Simons Watersheds	Glynn County	2006	Describes recommended management practices that relate to public education and involvement, stormwater management, and water resource protection.
City of Darien Watershed Protection Plan	Ogeechee Coastal and Altamaha Watersheds	City of Darien	2008-2009	Describes recommended management practices that relate to water resource protection ordinances, stormwater management, and long term monitoring of water resources.

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City of St. Marys Watershed Protection Plan	Pt. Peter Creek, North River, Dark Entry Creek, Burrells Creek, and Sweetwater Branch Watersheds	City of St. Marys	2007	Describes recommended management practices that relate to public education and awareness, water resource protection ordinances, stormwater management/design practices, and long term monitoring of water resources.
Pooler Wastewater Treatment Plant, Watershed Protection Plan	Lower Savannah, Lower Ogeechee, and Ogeechee Coastal Watersheds	City of Pooler	2004	Describes recommended management practices that relate to stormwater management including source controls, treatment controls, and long term monitoring of water resources.
South Bryan County Treatment Plant, Watershed Protection Plan	Ogeechee, Lower Ogeechee, and Canoochee Watersheds	Bryan County	2009	Describes recommended management practices that relate to stormwater management, septic tanks, public education and outreach, additional data collection, and long term monitoring of water resources.
City of Port Wentworth Watershed Protection Plan	Lower Savannah, Lower Ogeechee, and Ogeechee Coastal Watersheds	City of Port Wentworth	2006	Describes recommended management practices that relate to stormwater management, floodplain management, water resource protection ordinances, and long term monitoring of water resources.
Town of Portal Watershed Protection Program	Lower Ogeechee and Canoochee Watersheds	Town of Portal	2008-2009	Describes recommended management practices that relate to public education and outreach, stormwater management practices, and water resource protection ordinances.
City of Rincon Watershed Protection Plan	Lower Savannah, Lower Ogeechee, and Ogeechee Coastal Watersheds	City of Rincon	2007	Describes recommended management practices that relate to stormwater management, public education and outreach, water resource protection ordinances, additional data collection, and long term monitoring of water resources.
City of Richmond Hill Watershed Protection Plan	Ogeechee, Lower Ogeechee, and Canoochee Watersheds	City of Richmond Hill	2009	Describes recommended management practices that relate to structural stormwater management, additional data collection, public education and outreach, and water resource protection ordinances.
City of Hinesville Watershed Protection Plan	Canoochee and Ogeechee Coastal Watersheds	City of Hinesville	2008	Describes recommended management practices that relate to stormwater management, water resource protection, and long term monitoring of water resources.

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Crossroads WQCP Watershed Protection Plan	Lower Savannah, Lower Ogeechee, and Ogeechee Coastal Watersheds	City of Savannah	2007	Describes recommended management practices that relate to stormwater management, public education, and long term monitoring of water resources.