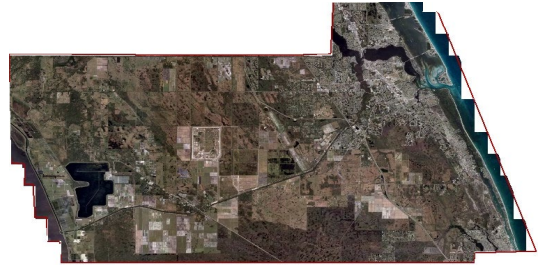


Shoreline Management Amended 01/14/2025

Category Non-Concurrency
Project Number 9926A-9926B-9926C-9926F
Location Various
District Countywide

Project Limits Shorelines within Martin County



Related Projects Tuckahoe Mansion Seawall Replacement
Lead Dept/Division Public Works/Coastal
Year Project Initiated 2021

Project Life Cycle 10 Years

Resilience Requirements ☒ 2040 Vulnerability ☐ 2070 Vulnerability ☐ 2100 Vulnerability



DESCRIPTION

Shoreline Management will include planning of hybrid living shoreline projects at waterfront parks to stabilize the shorelines, reduce erosion, improve water quality, enhance nearshore habitats, maintain recreational access, and provide community involvement opportunities.

BACKGROUND

The Martin County shorelines along the St. Lucie River, Indian River, and Loxahatchee River have threatened mangrove, oyster, and seagrass habitats which have diminished due to rising water levels, turbidity, and decreased water quality caused by sea level rise, severe rain events, sunny day flooding, and major storms. The County's non-beachfront waterfront parks comprise ~64,000 ft (~12 miles) of shoreline located on inland waterways, including the St. Lucie River, C44 Canal, and the Indian River Lagoon. Waterfront facilities at the parks include shoreline protection (e.g. seawalls, rip-rap) and recreational access features such as boat ramps, docks, and elevated walkways. By reducing onshore wave energy, the breakwaters promote mangrove growth and decrease turbidity, increasing the likelihood of success of seagrass recruitment, such as the endangered Johnson's seagrass. Monitoring of these construction projects will occur for one year after construction to measure the acreage of submerged aquatic habitat restored. The construction for Indian Riverside Park Project has been budgeted over FY23-FY24 with grant funding. The construction for Twin Rivers living shoreline will be constructed in FY24. Pipers Landing living shoreline project has been submitted to FDEP for grant assistance with design and construction.

PROJECT ORIGINATION

Grant Opportunities

JUSTIFICATION

Goal 9.1 of the Comprehensive Growth Management Plan is "to effectively manage, conserve and preserve the natural resources of Martin County — air, water, soils, habitat, fisheries and wildlife, and especially the St. Lucie Estuary and the Indian River Lagoon — giving consideration to an equitable balance of public and private property rights." Additionally, Policy 14.1A.10 of the Plan has requirements to "(1) identify projects that eliminate public hazards; and (2) repair, remodeling, renovation or replacement of obsolete or worn out facilities that contribute to achieving or maintaining standards for level of service." These projects assist in these efforts.

Expenditures	Total	To Date		Funded					Unfunded
				FY25	FY26	FY27	FY28	FY29	FY30-FY34
Design/Planning	1,017,137	557,137		100,000	200,000	10,000		50,000	100,000
Construction	5,743,000			2,943,000	750,000		2,000,000		50,000
Monitoring	465,000				250,000	65,000	50,000		100,000
Expenditure Total	7,225,137	557,137		3,043,000	1,200,000	75,000	2,050,000	50,000	250,000
Revenues	Total	To Date	Carryover	FY25	FY26	FY27	FY28	FY29	FY30-FY34
Ad Valorem	2,704,772	236,772	1,968,000	50,000	50,000	50,000	50,000	50,000	250,000
Grant(s)	4,470,365	320,365	3,400,000		750,000				
Contribution	50,000			50,000					
Revenue Total	7,225,137	557,137	5,368,000	100,000	800,000	50,000	50,000	50,000	250,000

Total Unfunded -

OPERATING BUDGET IMPACT

Staff time to administer the program.