

FY2025/2026 Local Government Funding Request

Draft Beach Project Assessment

Project Name	Estero Island Beach Nourishment Project
Local Sponsor	Town of Fort Myers Beach

Initial Assessment	8/23/2024
Group Assessment	8/27/2024
Draft Assessment	9/2/2024
Final Review	

Project Description
The Estero Island Shore Protection Project is located between DEP monuments R175-400' and R198 and between R203 and R207 in Lee County. This project includes three different segments: North Fill, Central Fill, and South Fill. First the USACE completed a General Reevaluation Report for Gasparilla and Estero Island in January of 2000. The federal project's design included three years of advanced nourishment to protect the existint dune and upland development. Then the recommendation for the project for the two island were modified and the Estero Island Beach Nourishment Project is currently cost shared between town, county, and state. In 2011, the terminal groin was constructed and a nourishment was completed. In 2014, the South Fill was designated a Critical Wildlife Area and was nourished in 2017. Construction on the project has already began. The requested funds are for design, construction, and monitoring. Staff have determined that 83.4% of the project is eligible for state cost sharing for the North Fill and Central Fill locations and 100% is eligible for state cost sharing for the South Fill location.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Design (current FY25/26 reimbursement), construction (current FY25/26 reimbursement), and monitoring (current FY25/26 reimbursement- annual)

State cost share %	41.7% , 43.0%, 100%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0.00	\$0.00	\$0.00	\$0.00
Design	43.00%	\$0.00	\$10,750.00	\$14,250.00	\$25,000.00
Construction	41.70%	\$0.00	\$839,629.50	\$1,173,870.50	\$2,013,500.00
Construction (CWA)	100.00%	\$0.00	\$2,013,500.00	\$0.00	\$2,013,500.00
Year 1 Monitoring	0.00%	\$0.00	\$0.00	\$0.00	\$0.00
Year 2+ Monitoring	43.00%	\$0.00	\$76,110.00	\$100,890.00	\$177,000.00
Total Project Costs		\$0.00	\$2,939,989.50	\$1,289,010.50	\$4,229,000.00

Federal cost share %	0.00%
Federal agency and description	

TOTAL PROJECT SCORE (100 points)	51.6
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Tier 1

Tourism-related impacts		
Return on investment (10 points)	Score	4.1

Local Sponsor:

Project is requesting construction funds.

Department:

Construction + Year 1 Monitoring Cost:

\$2,853,129.50

Value:

51.1

Economic impact (10 points)	Score	5.9
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Local Sponsor: N/A

Department: Lee County, most current complete calendar data. Tourism-related sales tax data = \$145,777,633.49. County sales tax collections = \$1,340,193,047.00

Value: 10.88

Tier 2

Federal involvement

Federal authorization (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Federal cost share (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Federal funds available (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Storm damage reduction benefits

Current conditions (8 points)	Score	5.2
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Local Sponsor: 300,000 cy

Department: Beach nourishment was completed in 2011 with the latest survey received by the Department in April 2024. 77.3% of the 160,521.9 cy of advanced nourishment was lost over this interval for a total score of $-\log(1-0.773) \times 8 = 5.2$.

CEG calculated value: 5.2

Threat to upland development (2 points)	Score	2
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Local Sponsor: N/A

Department: The SBEACH model was run using April 2024 survey profiles for the 25-year return interval storm conditions for the beach segments. The model results were overlaid on aerial imagery and showed 4,297.2 feet of unarmored property was threatened. This equates to 14.93% of the project length. Hence, the value for threat to upland development is 2 points.

CEG calculated value: 2

Value of upland property (5 points)	Score	3.8
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Local Sponsor:

Department: Calculated by CEG/GIS staff

Total value: \$2,684,207,527.00

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	9
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Local Sponsor: Sand placment vol. = 905,000 cy, nourishment int. = 10 years

Department: Construction cost = \$4,027,000.00, volume = 905,000 cy, length = 5.45 mi,
Value: nourishment interval = 10 yrs
.0816 \$/cy/mi/yr

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	3
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Local Sponsor: Enhanced longevity, Dune Addition, and Regionalization.

Department: Dune addition has been verified by the Department and eligible for 3 points.

Tier 3

Previous state commitment

Previously funded phases (1 point)	Score	1
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Local Sponsor: Yes

Department: The department has previously provided cost-share on an approved feasibility study or design phase for this project.

Total amount of previous funding (3 points)	Score	2.5
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Local Sponsor: N/A

Department: Fiscal year 2015/2016 through 2024/2025
Total funds: \$16,054,681.00

Previous partial appropriation (1 point)	Score	0
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Local Sponsor: Yes

Department: No partial appropriations in 3 previous fiscal year applications, not eligible for the award of points.

Recreational benefits

Accessible beach area (2 points)	Score	1.1
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Local Sponsor: 2,159,250 ft²

Department: Calculated by CEG/GIS staff.
Total area: 1,857,343 ft²

Recreational benefits (3 points)	Score	2.5
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Local Sponsor: 100%

Department: 83.47% is recreational/commercial space
Percentage: 83.47%

Mitigation of inlet effects (5 points)	Score	0
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Local Sponsor: N/A

Department: There is no adopted IMP for Matanzas Pass or Big Carlos Pass, therefore not eligible for the award of points.

CEG calculated value: 0

Volume/mile/year (5 points)	Score	3.5
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Local Sponsor: N/A

Department: Volume = 905,000 cy, length = 28,786 ft
nourishment interval = 10 years

CEG calculated value: 16,599.74 cy/mi/yr

Tier 4		
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Successive unfunded requests (5 points)	Score	0
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Local Sponsor: No

Department: Verified no successive unfunded requests. Not eligible for award of points.

Environmental habitat enhancement (5 points)	Score	3
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Local Sponsor: The project is within a designated critical habitat area that is subject to extensive shoreline armoring.
Due to significant beach erosion properties at R204, seawalls have been intalled to protec tupland property within the Critical Wildlife Area. Also, desgin template was modified to lower the beach berm elevation to match habitat type and existing conditions within the Critical Wildlife Area.

Department: The project boundary intersects critical habitat area. The shoreline is 22.2% armored with the threat to upland structures being 14.93% the total percentage is 37.2% which is greater than the 30% threshold. Therefore, the project is eligible for 3 points.

Overall readiness to proceed

Readiness to construct (1 point)	Score	1
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Local Sponsor: N/A

Department: Eligible for the award of additional point.

Active permits (1 point)	Score	1
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Local Sponsor: State: 0413684-001-JC (1/18/2038)
Federal: SAJ-2000-03017 (SP-SJF) (11/14/2038)

Department: Verified

Easements acquired (1 point)	Score	1
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Local Sponsor: Yes

Department: Verified

Local funds secured (1 point)	Score	1
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Local Sponsor: Yes

Department: Draft Resolution was submitted by application deadline.

Erosion Control Line established (1 point)	Score	1
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Local Sponsor: Yes

Department: Verified