

FY2023/2024 Local Government Funding Request

Final Beach Project Assessment

Project Name	Duval County Shore Protection Project
Local Sponsor	Duval County

Initial Assessment	8/18/2022
Group Assessment	9/2/2022
Draft Assessment	9/14/2022
Final Review	10/20/2022

Project Description
The Duval County Shore Protection Project is located between DEP monuments V501 and R80 in Duval County. Initial construction was completed in 1978/1980, with nourishments in 1987, 1991, 1995, 2005, 2017 and 2019. Requested funds are for feasibility, construction, 1st year monitoring (for this nourishment), and monitoring for 2019 nourishment. Staff have determined that 93.78% of the project is eligible for state cost sharing.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Feasibility, Construction, Yr.1 Monitoring, Yr. 2 Monitoring reimbursement (2021), and Yr.3 (2022) Monitoring

State cost share %	46.89%
--------------------	--------

Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	46.89%	\$0	\$35,168	\$39,833	\$75,000
Design	0.00%	\$0	\$0	\$0	\$0
Construction	46.89%	\$2,960,000	\$865,212	\$979,983	\$4,805,195
Year 1 Monitoring	46.89%	\$0	\$75,024	\$84,976	\$160,000
Year 2+ Monitoring	46.89%	\$0	\$77,500	\$87,780	\$165,280
Total Project Costs		\$2,960,000	\$1,052,903	\$1,192,572	\$5,205,475

Federal cost share %	61.60%
----------------------	--------

Federal agency and description	USACE
--------------------------------	-------

TOTAL PROJECT SCORE (100 points)	65.4
---	-------------

Tier 1

Tourism-related impacts

Return on investment (10 points)	Score	5.6
----------------------------------	-------	-----

Local Sponsor: Project is requesting construction funds

Department: N/A

Construction + Year 1 Monitoring Cost: \$940,236.00

Value: 50.9

Economic impact (10 points)	Score	0.5
------------------------------------	--------------	-----

Local Sponsor: N/A

Department: Duval County, 2021 data. Tourism-related sales tax data = \$47,831,973.48.
County sales tax collections = \$1,408,355,112.26

Value: 3.40

Tier 2

Federal involvement

Federal authorization (5 points)	Score	5
---	--------------	---

Local Sponsor: Federally authorized until 2028

Department: Verified

Federal cost share (5 points)	Score	5
--------------------------------------	--------------	---

Local Sponsor: 61.60%

Department: Verified

Federal funds available (5 points)	Score	5
---	--------------	---

Local Sponsor: Yes

Department: Verified

Storm damage reduction benefits

Current conditions (8 points)	Score	3.4
--------------------------------------	--------------	-----

Local Sponsor: Advance Nourishment lost: 0 cy (May/June 2022 survey) relative to 2019 fill of 318,100 cy above MHWL
Restoration project: -2.5 ft/yr per historical references and prior Department review & LGFR documents.
Beach restoration was completed in January 2019 with the latest survey received by the Department in May 2022. 62.3% of the 5,242,279 cy of advanced nourishment was lost over this interval for a total score of $-\log(1 - 0.623) \times 8 = 3.4$ points.

Department:

CEG calculated value: 3.4

Threat to upland development (2 points)	Score	0
--	--------------	---

Local Sponsor: N/A

Department: No properties were found to be vulnerable using the May 2022 survey profiles. Therefore, 0 points are awarded.
CEG calculated value: 0

Value of upland property (5 points)	Score	4
--	--------------	----------

Local Sponsor: 2021- \$4,841,108,663

Department: Calculated by GIS using 2021 data.
Total value: \$4,881,129,569.00

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	10
--	--------------	-----------

Local Sponsor: 1,045,000 cy per 7 yrs

Department: Construction cost = \$1,800,000, Volume = 1,045,000 cy, Length = 47,575 ft,
Nourishment Interval = 7 years
Value: 0.0131 \$/cy/mi/yr

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	3
---	--------------	----------

Local Sponsor: N/A

Department: Project consists of a dune addition and therefore eligible for the award of 3 points.

Tier 3

Previous state commitment

Previously funded phases (1 point)	Score	1
---	--------------	----------

Local Sponsor: Yes

Department: Verified

Total amount of previous funding (3 points)	Score	2.3
--	--------------	------------

Local Sponsor: N/A

Department: Fiscal year 2013/2014 through 2022/2023
Total funds: \$10,694,886.60

Previous partial appropriation (1 point)	Score	0
---	--------------	----------

Local Sponsor: No

Department: Verified

Recreational benefits

Accessible beach area (2 points)	Score	9.1
---	--------------	------------

Local Sponsor: The landward limit is the ECL and the seaward limit is the MHW shoreline described by the authorized design template at each R-monument.

Department: 2018 Monitoring Report, page 2 describes the design as a 60' berm from the ECL at 8.1' NAVD then a 1V:20H slope to the MHWL.

Total area: 8,522,182.80 ft²

Recreational benefits (3 points)	Score	1
---	--------------	----------

Local Sponsor: 32.80%

Department: Verified

Percentage: 32.80%

Mitigation of inlet effects (5 points)	Score	0
---	--------------	----------

Local Sponsor: Project is immediately downdrift of the St. Johns River entrance, which has no ongoing sand bypass project

Department: The project is within the influence area of St. John's inlet. However, there is no adopted IMP for this inlet. Therefore, 0 points are awarded.

CEG calculated value: 0

Volume/mile/year (5 points)	Score	2.5
------------------------------------	--------------	------------

Local Sponsor: N/A

Department: Volume = 100,000 cy, Length = 47575 ft, Nourishment Interval = 7 yrs

CEG calculated value: 16,568 cy/ft/yr

Tier 4

Successive unfunded requests (5 points)	Score	0
--	--------------	----------

Local Sponsor: No

Department: Verified

Environmental habitat enhancement (5 points)	Score	3
---	--------------	----------

Local Sponsor: no

Department: The project boundary intersects a critical habitat area. 31.1 percent of the project length is armored, which is above the 30% threshold and therefore eligible for the award of 3 points.

Overall readiness to proceed

Readiness to construct (1 point)	Score	1
---	--------------	----------

Local Sponsor: N/A

Department: Verified

Active permits (1 point)	Score	1
---------------------------------	--------------	----------

Local Sponsor: State: Yes Federal: Not required

Department: Verified

Easements acquired (1 point)	Score	1
-------------------------------------	--------------	----------

Local Sponsor: Yes

Department: Verified

Local funds secured (1 point)	Score	1
--------------------------------------	--------------	----------

Local Sponsor: Yes

Department: Resolution was submitted by application deadline.

Erosion Control Line established (1 point)	Score	1
---	--------------	----------

Local Sponsor: Yes

Department: Verified