

FY2022/2023 Local Government Funding Request

Draft Beach Project Assessment

Project Name	St. Johns County Shore Protection Project
Local Sponsor	St. Johns County

Initial Assessment	8/11/2021
Group Assessment	8/20/2021
Draft Assessment	8/31/2021
Final Review	

Project Description
The St. Johns County Shore Protection Project consists of 2.68 miles of shoreline and is located between DEP monuments R137 and R151 in St. Johns County. Restoration was completed in January 2003, and nourishments were completed in 2005, 2012, and 2018. The County is developing a federal validation report to include additional offshore borrow areas for the federal project. The next nourishment is scheduled for 2022/2023. The requested funds are for design, construction, and year 1 post-construction monitoring. Staff have determined that 87.12% of the project is eligible for state cost sharing.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Design, Construction, and Monitoring

State cost share %	43.56%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0	\$0	\$0
Design	43.56%	\$503,125	\$53,089	\$68,786	\$625,000
Construction	43.56%	\$18,576,923	\$1,960,200	\$2,539,800	\$23,076,923
Year 1 Monitoring	43.56%	\$69,230	\$7,305	\$9,465	\$86,000
Year 1 Monitoring	43.56%	\$0	\$43,560	\$56,440	\$100,000
Year 2+ Monitoring	0.00%	\$0	\$0	\$0	\$0
Total Project Costs		\$19,149,278	\$2,064,154	\$2,674,491	\$23,887,923

Federal cost share %	80.50%
Federal agency and description	USACE

TOTAL PROJECT SCORE (100 points)	56.7
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Tier 1

Tourism-related impacts			
Return on investment (10 points)	Score	2.9	

Local Sponsor: Project is requesting construction funds.

Department: Verified

Construction + Year 1 Monitoring Cost: \$2,011,065.00

Value: 15.2

Economic impact (10 points)	Score	9
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Local Sponsor: N/A

Department: St. Johns County, 2020 data. Tourism-related sales tax data = \$30,494,141.91. County sales tax collections = \$242,172,298.8

Value: 12.59

Tier 2

Federal involvement

Federal authorization (5 points)	Score	5
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Local Sponsor: Yes, the project is federally authorized

Department: Verified

Federal cost share (5 points)	Score	5
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Local Sponsor: 80.50%

Department: Verified

Federal funds available (5 points)	Score	5
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Local Sponsor: Yes, funding included in USACE work plan.

Department: Verified

Storm damage reduction benefits

Current conditions (8 points)	Score	0.9
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Local Sponsor: 168,911 cy lost since 2018 nourishment.

Department: The last nourishment was completed June 2018. The Department calculated volume change above MHW for the project area of R-137A to R-151 utilizing the 2017 pre-construction, 2018 post-construction, and the 2020 monitoring surveys. Results showed 77.2% of the fill remained or a loss of 22.8% as of August 2020.

CEG calculated value: 22.80%

Threat to upland development (2 points)	Score	0
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Local Sponsor: N/A

Department:

The 2021 Monitoring Report (Taylor Engineering, 2021, page 28) shows a volume gain for all monuments within the project area for the pre-construction to 2020-August time frame. The project design template remains intact and is protecting upland development from a 25-year storm, therefore no points awarded.

CEG calculated value: 0

Value of upland property (5 points)	Score	0.8
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Local Sponsor: \$541,776,675

Department: Calculated by Department GIS staff with 2020 data.

Total value: \$429,000,398

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	5.8
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Local Sponsor: Volume = 900,000 cy, nourishment interval = 5 yrs based on 1998 GRR

Department: Construction cost = \$23,076,923, volume = 900,000 cy, length = 2.7 mi, nourishment interval = 5 yrs

Value: \$1.28

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	0
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Local Sponsor: None proposed.

Department: Proposed project does not qualify for any of the elements and therefore not eligible for the award of points.

Tier 3

Previous state commitment

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

Department: Verified

Total amount of previous funding (3 points)	Score	1.2
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Local Sponsor: N/A

Department: Fiscal year 2012/2013 through 2021/2022

Total funds: \$2,266,388.00

Previous partial appropriation (1 point)	Score	0
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Local Sponsor: N/A

Department: No previous partial appropriation.

Recreational benefits

Accessible beach area (2 points)	Score	1.2
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Local Sponsor: 61 acres of accessible beach area

Department: The design is a 60-foot berm from the ECL at the 9-foot-NAVD contour then a 20H:1V slope to the MHW contour at 1.6 feet-NAVD (Taylor Monitoring Report, Feb 2019, page 51) for a 208 foot beach width. (208 feet width) X (14145 feet length) results in an accessible beach area of 2,942,160 square feet.

Total area: 2,942,160

Recreational benefits (3 points)	Score	1.5
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Local Sponsor: 50.30%

Department: Reviewed
Percentage: 50.30%

Mitigation of inlet effects (5 points)	Score	5
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Local Sponsor: Mitigates the impacts of the St. Augustine Inlet

Department: The project implements a strategy for sediment bypassing contained in the adopted 1998 inlet management plan, as well as the updated IMP adopted in 2014. The target bypassing volume to the beaches south of the inlet was 510,000 cy/yr in the 1998 IMP and is 185,333 cy/yr in the 2014 IMP. The total volume of sand bypassed to the south beaches is 9,946,525 cubic yards inclusive of the 2018 beach nourishment. The total volume of inlet sand bypassing needed to meet the target volume is calculated from the 1998 adoption of the IMP to the 2014 update of the IMP using 510,000 cy/yr, and from 2014 to 2020 using 185,333 cy/yr. Therefore, the total volume needed to meet the target bypassing objective is 9,271,998 cy. The total volume of 9,946,525 cy of sand bypassing exceeds the target bypassing objective.

CEG calculated value: 100%

Volume/mile/year (5 points)	Score	4.4
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Local Sponsor: N/A

Department: Restored in 2003 and nourished in 2012 and 2018 (2005 project is considered storm response) for a nourishment interval 7.5 years. The project length is 2.68 miles. The planned Sand Placement Volume as stated in the application is at least 900,000 cy. Thus, the volume per mile per year is 44,776 cy/mile/year.

CEG calculated value: 44,776

Tier 4

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

Department: Verified

Environmental habitat enhancement (5 points)	Score	3
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Local Sponsor: Yes, the project is located within critical habitat

Department: Project is within a designated critical habitat area. 0.98 miles or 36.6% of the project shoreline is armored, which exceeds the threshold of 30% to be considered extensive armoring, therefore eligible for the award of 3 points. Documentation for exceeding best management practices required to be submitted to be eligible for the award of the additional 2 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 the additional point.

Active permits (1 point)	Score	1
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Local Sponsor: Yes, active state permit. Federal permit not required.

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