

## FY2023/2024 Local Government Funding Request

### Draft Beach Project Assessment

|               |                                    |
|---------------|------------------------------------|
| Project Name  | South Boca Raton Beach Nourishment |
| Local Sponsor | City of Boca Raton                 |

|                    |           |
|--------------------|-----------|
| Initial Assessment | 8/15/2022 |
| Group Assessment   | 9/1/2022  |
| Draft Assessment   | 9/14/2022 |
| Final Review       |           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| The South Boca Raton Beach Nourishment Project is located between DEP Monuments R223+269' to R227+946' in Palm Beach County. Restoration was completed in 1985 with additional nourishments in 1996, 2002, 2010 and 2013. An Interim project was completed in 2017 placing approximately 134,100 cy of sand within a 0.9 mile long project area. The next nourishment is scheduled for FY 22/23. The requested funds are for design, construction, and monitoring. Staff have determined that 77.29% 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 (reimbursement for 22/23), construction (reimbursement for 22/23), and monitoring (22/23) |

|                    |        |
|--------------------|--------|
| State cost share % | 38.65% |
|--------------------|--------|

| Project Budget Table       |         |            |                    |                    |                     |
|----------------------------|---------|------------|--------------------|--------------------|---------------------|
|                            | State % | Federal    | State              | Local              | Total               |
| Feasibility                | 0.00%   | \$0        | \$0                | \$0                | \$0                 |
| Design                     | 38.65%  | \$0        | \$19,325           | \$30,675           | \$50,000            |
| Construction               | 38.65%  | \$0        | \$3,903,650        | \$6,196,350        | \$10,100,000        |
| Year 1 Monitoring          | 38.65%  | \$0        | \$96,625           | \$153,375          | \$250,000           |
| Year 2+ Monitoring         | 0.00%   | \$0        | \$0                | \$0                | \$0                 |
| <b>Total Project Costs</b> |         | <b>\$0</b> | <b>\$4,019,600</b> | <b>\$6,380,400</b> | <b>\$10,400,000</b> |

|                                |       |
|--------------------------------|-------|
| Federal cost share %           | 0.00% |
| Federal agency and description |       |

|                                         |      |
|-----------------------------------------|------|
| <b>TOTAL PROJECT SCORE (100 points)</b> | 24.5 |
|-----------------------------------------|------|

|                                                        |
|--------------------------------------------------------|
| Provide justification for updated costs; ie inflation. |
|--------------------------------------------------------|

|               |
|---------------|
| <b>Tier 1</b> |
|---------------|

|                                |  |  |
|--------------------------------|--|--|
| <b>Tourism-related impacts</b> |  |  |
|--------------------------------|--|--|

|                                         |              |          |
|-----------------------------------------|--------------|----------|
| <b>Return on investment (10 points)</b> | <b>Score</b> | <b>3</b> |
|-----------------------------------------|--------------|----------|

**Local Sponsor:** Project is requesting construction funds.

**Department:** Verified  
**Construction + Year 1 Monitoring Cost:** \$4,000,275.00  
**Value:** 36.5

|                                    |              |            |
|------------------------------------|--------------|------------|
| <b>Economic impact (10 points)</b> | <b>Score</b> | <b>4.1</b> |
|------------------------------------|--------------|------------|

**Local Sponsor:** N/A

**Department:** Palm Beach County, 2021 data. Tourism-related sales tax data = \$146,030,636.69 . County sales tax collections = \$2,069,677,084.20  
**Value:** 7.06

|               |
|---------------|
| <b>Tier 2</b> |
|---------------|

|                            |  |  |
|----------------------------|--|--|
| <b>Federal involvement</b> |  |  |
|----------------------------|--|--|

|                                         |              |          |
|-----------------------------------------|--------------|----------|
| <b>Federal authorization (5 points)</b> | <b>Score</b> | <b>0</b> |
|-----------------------------------------|--------------|----------|

**Local Sponsor:** No

**Department:** Verified

|                                      |              |          |
|--------------------------------------|--------------|----------|
| <b>Federal cost share (5 points)</b> | <b>Score</b> | <b>0</b> |
|--------------------------------------|--------------|----------|

**Local Sponsor:** No

**Department:** Verified

|                                           |              |          |
|-------------------------------------------|--------------|----------|
| <b>Federal funds available (5 points)</b> | <b>Score</b> | <b>0</b> |
|-------------------------------------------|--------------|----------|

**Local Sponsor:** No

**Department:** Verified

|                                        |  |  |
|----------------------------------------|--|--|
| <b>Storm damage reduction benefits</b> |  |  |
|----------------------------------------|--|--|

|                                      |              |            |
|--------------------------------------|--------------|------------|
| <b>Current conditions (8 points)</b> | <b>Score</b> | <b>0.9</b> |
|--------------------------------------|--------------|------------|

**Local Sponsor:** 0 ft y

**Department:** Beach restoration was completed in April 2017 with the latest survey received by the Department in June 2019. 22.4% of the 306,000 cy of advanced nourishment was lost over this interval for a total score of

CEG calculated value: 22.42%

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

Local Sponsor: N/A

Department: No properties were found to be vulnerable using the June 2019 survey profiles. Therefore, 0 points are awarded.  
CEG calculated value: 0

|                                     |       |     |
|-------------------------------------|-------|-----|
| Value of upland property (5 points) | Score | 2.9 |
|-------------------------------------|-------|-----|

Local Sponsor:

Department: Calculated by GIS with 2021 data  
Total value: \$1,443,748,796.00

#### Cost-effectiveness

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

Local Sponsor: Sand placement vol = 170,000 cy; nourishment int = 8 years

Department: Construction = \$3,903,700, Volume = 170,000 cy, Length = 4,996 ft,  
Nourishment Interval = 8 yrs  
Value: 3.0335 \$/cy/mi/yr

|                                                                                          |       |   |
|------------------------------------------------------------------------------------------|-------|---|
| Enhanced longevity, dune addition, innovative technology, and regionalization (5 points) | Score | 0 |
|------------------------------------------------------------------------------------------|-------|---|

Local Sponsor: Regionalization: The 2022/23 nourishment is planned to provide source material from the ebb shoal for planned nourishment in Deerfield/Hillsboro to the South.

Department: Not eligible for the award of 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 | 1.2 |
|---------------------------------------------|-------|-----|

Local Sponsor: N/A

Department: Fiscal year 2013/2014 through 2022/2023

Total funds: \$6,194,617.05

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

Local Sponsor: Yes

Department: No partial appropriations last year, therefore not eligible for award of point.

#### Recreational benefits

|                                  |       |   |
|----------------------------------|-------|---|
| Accessible beach area (2 points) | Score | 0 |
|----------------------------------|-------|---|

Local Sponsor:

Department:

The 1975 MHWL was used as the design and bounded by the ECL on the landward edge. The ECL is only landward of the design north of R-224 (Strategic Beach Management Plan) . Calculated by CEG/GIS

Total area: 53,490 ft<sup>2</sup>

|                                  |       |     |
|----------------------------------|-------|-----|
| Recreational benefits (3 points) | Score | 0.5 |
|----------------------------------|-------|-----|

Local Sponsor: 47.8% based on previous FDEP assessment

Department: South Inlet Park 875 ft - 875/4950 = 17.7%  
Percentage: 17.70%

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

Local Sponsor:

Department: The project is within the influence area of Boca Raton inlet. However, the inlet is currently achieving its target bypassing objective. Therefore, 0 points are awarded.

CEG calculated value: 0

|                             |       |     |
|-----------------------------|-------|-----|
| Volume/mile/year (5 points) | Score | 2.9 |
|-----------------------------|-------|-----|

Local Sponsor:

Department: Volume = 170,000 cy, Length = 4,996 ft, Nourishment Interval = 8 yrs  
CEG calculated value: 22457.97 cy/mi/yr

#### Tier 4

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

Local Sponsor: 2+ Years

**Department:** All projects funded in 22/23. Therefore not eligible for point.

|                                                     |              |          |
|-----------------------------------------------------|--------------|----------|
| <b>Environmental habitat enhancement (5 points)</b> | <b>Score</b> | <b>5</b> |
|-----------------------------------------------------|--------------|----------|

**Local Sponsor:** The project is not within a critical or threatened habitat area.  
The City conducts annual night beach lighting surveys. Section 23-242 of the City's Code of Ordinances regulates beach lighting of commercial and residential properties for sea turtle protection. This

**Department:** The project boundary intersects a critical habitat area. 63.7% of the project length is armored which exceeds the 30% threshold (3 points).  
Annual night beach lighting surveys qualify for 2 additional points.

**Overall readiness to proceed**

|                                         |              |          |
|-----------------------------------------|--------------|----------|
| <b>Readiness to construct (1 point)</b> | <b>Score</b> | <b>0</b> |
|-----------------------------------------|--------------|----------|

**Local Sponsor:** N/A

**Department:**

|                                 |              |          |
|---------------------------------|--------------|----------|
| <b>Active permits (1 point)</b> | <b>Score</b> | <b>1</b> |
|---------------------------------|--------------|----------|

**Local Sponsor:** State 0182699-010-JN (exp 2026)  
SAJ-1994-01196 (exp 2026)

**Department:** Verified

|                                     |              |          |
|-------------------------------------|--------------|----------|
| <b>Easements acquired (1 point)</b> | <b>Score</b> | <b>1</b> |
|-------------------------------------|--------------|----------|

**Local Sponsor:** Yes

**Department:** Verified

|                                      |              |          |
|--------------------------------------|--------------|----------|
| <b>Local funds secured (1 point)</b> | <b>Score</b> | <b>0</b> |
|--------------------------------------|--------------|----------|

**Local Sponsor:** Yes - CIP submitted with application

**Department:** Draft Resolution was not submitted by application deadline.

|                                                   |              |          |
|---------------------------------------------------|--------------|----------|
| <b>Erosion Control Line established (1 point)</b> | <b>Score</b> | <b>1</b> |
|---------------------------------------------------|--------------|----------|

**Local Sponsor:** Yes

**Department:** Verified