

**FY2023/2024 Local Government Funding Request**  
**Final Beach Project Assessment**

|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| Project Name  | Collier County Beach Renourishment                                      |
| Local Sponsor | Collier County - Growth Management Department - Coastal Zone Management |

|                    |            |
|--------------------|------------|
| Initial Assessment | 8/10/2022  |
| Group Assessment   | 9/7/2022   |
| Draft Assessment   | 9/15/2022  |
| Final Review       | 10/20/2022 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| The project includes nourishment and monitoring of the Collier County beaches, dredging of Doctors Pass and erosion control structures for sand retention. The project is located between FDEP R-22+300 to R-30.5, R-42 – R-54+400, and R-78 to R-79, and includes three Vanderbilt Beach, Park Shore, and Naples. Dunes will be restored to pre-storm conditions when damaged. Between 2017 and 2020 approximately 38,000 cubic material was placed from Clam Pass onto the beaches on either side of the inlet and an additional 20,000 cy was placed in the newly permitted segment. Park Shore Beach was nourished with approximately 130,000 cubic yards of sand as part of the 2019 project. Naples Beach received approximately 30,000 cubic yards of sand dredged from Doctors Pass in 2018 placed in the nearshore. The reach from the Doctors Pass south jetty to R-60 was nourished with sand in late 2020. Permit design is to an 85 ft. wide beach in Park Shore, with a 6-year project design life. DEP staff has determined that the Naples Beach section is eligible for 95% state cost sharing, Vanderbilt Beach section is eligible for 85.9% state cost sharing, and Park Shore is eligible for 68.7% state cost sharing. |

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| Funds will be used for (list project phase, specify which phase is reimbursement, if applicable) |
| Design and 2+ yr Monitoring                                                                      |

|                    |        |
|--------------------|--------|
| State cost share % | 42.38% |
|--------------------|--------|

| Project Budget Table       |         |            |                  |                  |                  |
|----------------------------|---------|------------|------------------|------------------|------------------|
|                            | State % | Federal    | State            | Local            | Total            |
| Feasibility                | 0.00%   | \$0        | \$0              | \$0              | \$0              |
| Design                     | 42.38%  | \$0        | \$233,090        | \$316,910        | \$550,000        |
| Construction               | 0.00%   | \$0        | \$0              | \$0              | \$0              |
| Year 1 Monitoring          | 0.00%   | \$0        | \$0              | \$0              | \$0              |
| Year 2+ Monitoring         | 42.38%  | \$0        | \$173,758        | \$236,242        | \$410,000        |
| <b>Total Project Costs</b> |         | <b>\$0</b> | <b>\$406,848</b> | <b>\$553,152</b> | <b>\$960,000</b> |

|                                |       |
|--------------------------------|-------|
| Federal cost share %           | 0.00% |
| Federal agency and description | N/A   |

|                                         |             |
|-----------------------------------------|-------------|
| <b>TOTAL PROJECT SCORE (100 points)</b> | <b>32.8</b> |
|-----------------------------------------|-------------|

**Tier 1**

| Tourism-related impacts          |       |   |
|----------------------------------|-------|---|
| Return on investment (10 points) | Score | 0 |

Local Sponsor: Project is not requesting construction funds.

Department: Verified

Construction + Year 1 Monitoring Cost: Only Design & Monitoring costs

Value: \$233,090.00

|                             |       |     |
|-----------------------------|-------|-----|
| Economic impact (10 points) | Score | 8.6 |
|-----------------------------|-------|-----|

Local Sponsor: N/A

Department: Tourism tax revenue = \$103,137,871.24; total county tax revenue = \$732,351,282.75  
Value: 0.140831147

## Tier 2

### Federal involvement

|                                  |       |   |
|----------------------------------|-------|---|
| Federal authorization (5 points) | Score | 0 |
|----------------------------------|-------|---|

Local Sponsor: No

Department: Verified

|                               |       |   |
|-------------------------------|-------|---|
| Federal cost share (5 points) | Score | 0 |
|-------------------------------|-------|---|

Local Sponsor: N/A

Department: Verified

|                                    |       |   |
|------------------------------------|-------|---|
| Federal funds available (5 points) | Score | 0 |
|------------------------------------|-------|---|

Local Sponsor: No

Department: Verified

### Storm damage reduction benefits

|                               |       |   |
|-------------------------------|-------|---|
| Current conditions (8 points) | Score | 0 |
|-------------------------------|-------|---|

Local Sponsor: 2,880 cy (N. Park shore) 6,330 cy (Park shore)

Department: The most recent beach restoration was completed in November 2021 with a January 2022 post-construction survey. An updated survey is not available to determine advance nourishment loss and therefore not eligible for the award of points.

CEG calculated value: 0

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

Local Sponsor: N/A

Department: The most recent beach nourishment was completed in November 2021. The design berm remains intact and provides storm damage protection to the upland property from the impacts of a 25 year storm event. Therefore, the project is not eligible for the award of points.

CEG calculated value: 0

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

Local Sponsor: N/A

Department: \$14,827,453,869.00

Total value: \$14,827,453,869.00

### Cost-effectiveness

|                                   |       |   |
|-----------------------------------|-------|---|
| Cost/volume/mile/year (10 points) | Score | 0 |
|-----------------------------------|-------|---|

Local Sponsor: 165,000cy 5yrs

Department: The project is not requesting construction funds and therefore not eligible for the award of points.

Value: 0

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

Local Sponsor: None

Department: The project proposes a dune addition and is therefore eligible for the award of 3 points.

### Tier 3

#### Previous state commitment

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

Local Sponsor: Yes

Department: Collier county nourishment has previously been funded

|                                             |       |     |
|---------------------------------------------|-------|-----|
| Total amount of previous funding (3 points) | Score | 2.4 |
|---------------------------------------------|-------|-----|

Local Sponsor: N/A

Department: \$14,131,292.27

Total funds: \$14,131,292.27

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

Local Sponsor: No

Department: Verified

#### Recreational benefits

|                                  |       |     |
|----------------------------------|-------|-----|
| Accessible beach area (2 points) | Score | 1.8 |
|----------------------------------|-------|-----|

Local Sponsor:  $370532 \text{ yrd}^2 = 1111596 \text{ ft}^2$

Seaward design is 100 feet from the baseline for Vanderbilt and Naples while 85 feet for Park Shore. This is bounded by the ECL on the landward edge (H&M May 2016, Monitoring Report).

Department: As calculated by GIS: 1,641,019  $\text{ft}^2$

Total area: 1,641,019  $\text{ft}^2$

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

Local Sponsor: Vanderbilt: 12%; Park Shore: 20%; Naples: 5%

Department: V: 7.7%; PS: 20.5%; N: 4.8 % = 33% based on open air and public spaces zoning  
Percentage: 33%

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

Local Sponsor: N/A

The project is within the influence area of Wiggins Pass and Doctors Pass, of which the target bypassing quantity of 10,000 cy/yr has not been achieved for the latter inlet. Over 100% of the cumulative bypassing objective has been supplied by construction. Therefore, a full 5 points are awarded.

Department: are awarded.  
CEG calculated value: 286.30%

|                             |       |   |
|-----------------------------|-------|---|
| Volume/mile/year (5 points) | Score | 0 |
|-----------------------------|-------|---|

Local Sponsor: N/A

Department: The project is not requesting construction funds and therefore not eligible for the award of points  
CEG calculated value: 0

### Tier 4

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

**Local Sponsor:** None

**Department:** Verified

|                                                     |       |   |
|-----------------------------------------------------|-------|---|
| <b>Environmental habitat enhancement (5 points)</b> | Score | 0 |
|-----------------------------------------------------|-------|---|

**Local Sponsor:** No

**Department:** Yes: 0.186 armored; points only awarded for a threshold  $\geq 20\%$

**Overall readiness to proceed**

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

**Local Sponsor:** N/A

**Department:** N/A

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

**Local Sponsor:** Yes

**Department:** State: 0331817-004-JM (10/02/2030) Fed: SAJ-2003-12405 (05/06/2031)

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

**Local Sponsor:** Yes

**Department:** Verified

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

**Local Sponsor:** Yes

**Department:** Resolution was attached

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

**Local Sponsor:** Yes

**Department:** Verified