



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Inlet Projects Application

PART I: GENERAL INFORMATION

Local Sponsor	Collier County - Growth Management Department - Coastal Zone Management Section		
Federal ID Number (FEID)	59-6000558		
Primary Contact Name	Andrew Miller	Title	Manager
Mailing Address Line 1	2685 South Horseshoe Drive, Unit 103		
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City	Naples	Zip Code	34104
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Additional Contact Information

PART II: CERTIFICATION

I hereby certify that all information provided with this application is true and complete to the best of my knowledge.

Signature of Local Sponsor

Electronic or scanned signatures accepted.

Printed Name Andrew Miller

Date



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PART III: EVALUATION CRITERIA

1. Project Name: As listed in the Inlet Management Plan (IMP) or Strategic Beach Management Plan (SBMP)

Wiggins Pass Inlet Management

2. Project Description: Include county, location with reference to DEP range monuments, brief project history, and description of proposed activities.

The Wiggins Pass Project is located on the southwest Florida coastline in Collier County between Florida Department of Environmental Protection monuments R-16 and R-17 and the project is adjacent to approximately 2,300 feet of critically eroded Gulf shoreline. The dredge sites are located within Wiggins Pass, South and North Channels and the Gulf of Mexico. The nearshore and beach disposal sites are located north of the inlet, between DEP Reference monuments R-12 to R-15.5, and south of the inlet, between R-18 and R-20. The ebb shoal disposal area is located offshore of Wiggins Pass, approximately 300-1,000 feet north of the authorized inlet channel.

The project permits also includes the periodic maintenance dredging of 4,700 feet of the Water Turkey Bay navigational channel to the design depth of -5.0 feet MLW, with 0.5 foot over-depth allowance, for a maximum allowable dredge depth of -5.5 feet. The channel widths range from approximately 90 feet to 140 feet.

The initial phase of the latest Inlet Management Plan Study was implemented in 2013 by dredging approximately 107,000 cy for maintenance dredging and initial realignment of the channel. Per the Inlet Management Plan study, Wiggins Pass is currently dredged at regular intervals of approximately 4 years to maintain navigable depths for recreational boaters, with optional interim dredging events every two years to address shoaling across the navigation inlet gulf entrance. In 2015, an interim maintenance dredging project excavated 13,000 cy to clear the shoal across the main inlet entrance channel. Material was placed in the ebb shoal disposal area north of the channel and within the flood shoal disposal. FDEP finalized the inlet management plan in April 2018.

In Spring 2018, dredging of 100,000 cy with disposal split 2/3 of the total volume (67%) to the north and 1/3 of the total volume (33%) to the south to maintain the navigation of the inlet, refine and reinforce the alignment begun with the 2013 project. Dredging of Wiggins Pass was concurrent with the dredging of Doctors Pass as a means for sharing of common costs, such as mobilization to reduce costs.

In March 2020 the County conducted a small interim dredging project which removed approximately 21,400 cy from Wiggins Pass and 26,650 cy from Water Turkey Bay with placement in the nearshore zone north of Wiggins Pass along Barefoot Beach from FDEP reference monument R-12 to R-14. Due to storms since this project completion, the County is considering an emergency dredging project to remove shoals that impede navigation. Wiggins Pass was dredged between January 26, 2022 and March 10, 2022 with the removal of 66,033 cy with 65,043 cy available for pay. Approximately 21,413 cubic yards was placed north of the inlet on the beach and in the nearshore of Barefoot Beach and 16,747 cy was placed south of the inlet on the beach and in the nearshore near Delnor-Wiggins State Park.



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3. Use of Requested Program Funds: Provide a brief description of tasks to be completed in each requested phase (Feasibility, Design, Construction, or Monitoring). Indicate which tasks are cost reimbursement from previous fiscal years.

Monitoring: Funds are requested for Environmental & Physical Monitoring, and Tilling

4. Map: Provide as an attachment.

- **Format:** The project area must be formatted at a minimum of 1" = 200' scale and include a compass rose and legend.
- **Required elements:** Project boundary, DEP reference monuments, shoreline designated as critically eroded, area of inlet influence, and permitted sand bypassing placement area

5. Project length: Total restored project boundary (in feet) as listed in the IMP or SBMP. 10,560 feet

6. Schedule and Budget: Provide as a separate attachment, if needed. Clearly indicate project phase: Feasibility (F), Design (D), Construction (C), or Monitoring (M). Include the year of post-construction monitoring in the description.

- **Cost Reimbursement:** Specify eligible costs incurred during the three years prior to the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed (this includes fiscal years 20/21, 21/22, and 22/23). Eligible costs will be added to the current funding request.
- **Current and Future Costs:** Specify eligible costs for the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed as well as the estimated costs for the next 4 years. Note: If Construction costs are requested in the current fiscal year, then the Year 1 Post-Construction Monitoring costs will be added to the current funding request.

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
20/21		See Attachment				
20/21						
20/21						
21/22						
21/22						
21/22						



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Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
22/23						
22/23						
22/23						
23/24						
23/24						
23/24						
24/25						
24/25						
24/25						
25/26						
25/26						
25/26						
26/27						
26/27						
26/27						
27/28						
27/28						
27/28						



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7. Sand reaching the inlet

Provide the estimated annual quantity (cubic yards) of beach quality sand reaching the updrift boundary of the improved jetty or inlet channel:

8. Severity of erosion

Provide the annual bypassing objective (cubic yards/year) adopted by the IMP or SBMP or as determined by a Department-approved study:

9. Balancing the sediment budget

Provide the current annual average of bypassed material (cubic yards) since the adoption of a bypass objective:

Provide a brief description of when the last sediment budget engineering analysis was completed for the inlet and area of inlet influence. Discuss any proposals to update the sediment budget.

Beause only monitoring funds are being requested in FY 23/24. only items 1-6 have been included with this application.



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Historical bypassing volumes: In the table below, provide the annual bypassing volumes (cubic yards/year), for the previous ten years (from the last calendar year or the most recent calculation). Attach additional documentation as needed.

Year	Quantity Bypassed (cy) - Sand Transfer Plant	Quantity Bypassed (cy) - Dredging	Dredge Location	Placement or Disposal Area
2010				
2011				
2012				
2013				
2014				
2015				
2016				
2017				
2018				
2019				
2020				
2021				
Total per method				

Total bypass volume:

Years since IMP adoption:

Annual average bypass:

Bypass objective:

Percentage of bypass objective:



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10. Increased bypassing and cost-effectiveness

Provide the estimated increase in annual bypassing of sand (cubic yards/year) proposed for the project:

Provide the estimated shortfall of annual bypassing of sand (cubic yards/year) within the inlet system:

Is the proposed project requesting construction phase funds for a major inlet management project component?

If yes, and for the award of points for the cost-effectiveness of using inlet sand criteria, provide an opinion of probable cost per unit volume of the inlet and all other sand sources, certified by a licensed professional engineer.

11. Inlet Management Plans

Select all that apply:

- ☐ **Existing IMP:** The proposed project has an existing IMP or completed Inlet Management Study that has been approved by the Department.
- ☐ **Updated IMP:** The Department has received and approved an update to an existing IMP in the form of a current Inlet Management Study/sediment budget analysis within the previous five years, or there is an update proposed to an existing IMP in the current application.
- ☐ **New IMP:** A new inlet management study is proposed for submission to the Department for an adoption in an IMP.

12. Enhanced longevity of proximate beach nourishment projects

Annualized beach nourishment volume of proximate beach nourishment project:

13. Active permits

Does the project have an active state permit?

Does the project have an active federal permit?

Permit number:

Permit number:

Authorization date:

Authorization date:

Expiration date:

Expiration date:



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14. Federal funds available

Does the proposed project have federal funds available? If so, provide supporting documentation.

15. Secured local funds

Has the necessary local funding been secured for the proposed project? If so, provide a copy of the draft Resolution. The signed Resolution is due by October 5, 2022.

Additional
comments