

FY2022/2023 Local Government Funding Request

Draft Inlet Project Assessment

Project Name	Wiggins Pass Inlet Management Plan Implementation
Local Sponsor	Collier County

Initial Assessment	8/17/2021
Group Assessment	8/18/2021
Draft Assessment	8/31/2021
Final Review	

Project Description
The Wiggins Pass Inlet Management Plan Implementation Project is located between DEP monuments R16 and R17 in Collier County. The initial phase of the Inlet Management Study was implemented in 2013 and an interim maintenance dredging event was completed in 2015. The Inlet Management Plan was adopted in 2018 and authorizes sand placement from R12 to R15.5 north of the Pass and from R18 to R20 south of the Pass. Dredging of Wiggins Pass will be coordinated with the dredging of Doctors Pass as a means for cost sharing. Interim channel dredging of Wiggins Pass was completed in 2018 and 2020. The requested funds are for an emergency dredging project and include design, construction, and monitoring costs. Staff have determined that the project is eligible for a 50% state cost share.

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

State cost share %	50.00%
--------------------	--------

Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0	\$0	\$0
Design	50.00%	\$0	\$32,232	\$32,232	\$64,463
Construction	50.00%	\$0	\$837,500	\$837,500	\$1,675,000
Year 1 Monitoring	50.00%	\$0	\$51,000	\$51,000	\$102,000
Year 2+ Monitoring	0.00%	\$0	\$0	\$0	\$0
Total Project Costs		\$0	\$920,732	\$920,732	\$1,841,463

TOTAL PROJECT SCORE (80 points)	31.5
--	------

The Department requests additional information and justification for the emergency dredging project. The bypassing objective has been met, so if the primary intent of the construction is for navigational purposes (remove shoals that impede navigation), then the activity is not eligible for state cost share pursuant to Chapter 161.101(13)(i), Florida Statutes. Per the recent cultural resources report on the Delnor Wiggins State Park beaches, the project objective to place sand within the State Park would be potentially eligible, but additional information is needed.

Sand reaching the inlet (10 points)	Score	2.1
--	--------------	------------

Local Sponsor: Sand reaching the inlet from 2018-2021 is 44,728 cy/yr (H&M 2021)

Department: Due to periodic reversals in littoral transport adjacent to Wiggins Pass and variation in erosion rates through time, the bypass objective of 20,600 cubic yards, determined in the 2018 adopted Wiggins Pass inlet management plan (IMP), will be used in this calculation, for the score of 2.1 points

Volume of sand: 20,600

Severity of erosion (10 points)	Score	4.1
--	--------------	------------

Local Sponsor: The IMP and SBMP (DEP, 2018) state that the target inlet sand bypassing quantity shall be 20,600 cy/yr with 1/3 placed to the south of the inlet (6,833 cy/yr) and 2/3 placed to the north of the inlet (13,733 cy/yr).

Department: The target annual bypassing objective is 20,600 cy/yr which yields 4.1 points when divided by 5,000 for Gulf of Mexico inlet projects.

Target bypassing volume: 20,600 cy

Balancing the sediment budget (10 points)	Score	10
--	--------------	-----------

Local Sponsor: Current annual average of bypassed material is 44,728 cy/yr, which meets the total IMP target. Since the IMP adoption, the bypassing objectives have been met. Two dredging events have occurred since IMP adoption, in 2018 and 2020, and the dredge and disposal volumes average 27,700 cy/yr to the north and 13,070 cy/yr to the south.

Department: The bypass objectives for both the north and south have been met with bypass events in 2018 and 2020. The maximum score of 10 points is awarded.

CEG calculated value: 20,600 cy

Increased bypassing improvements (10 points)	Score	0
---	--------------	----------

Local Sponsor: None proposed.

Department: No annualized increase is proposed, therefore no points awarded.

CEG calculated value: N/A

Cost-effectiveness of using inlet sand (10 points)	Score	0
---	--------------	----------

Local Sponsor: N/A

Department: Proposed project does not include the construction of an initial major inlet management project and is therefore not eligible for the award of points.

Inlet Management Plans

Existing IMP (5 points)	Score	5
--------------------------------	--------------	----------

Local Sponsor: Yes

Department: Verified

Updated IMP (5 points)	Score	5
-------------------------------	--------------	----------

Local Sponsor: No

Department: The IMP has been updated within the last 5 years and is therefore eligible for the award of points.

New IMP (10 points)	Score	0
----------------------------	--------------	----------

Local Sponsor: No

Department: Not eligible for the award of points.

Enhanced longevity of proximate beach projects (10 points)	Score	0
---	--------------	----------

Local Sponsor: Since the IMP adoption in 2018, an average of 44,728 cy/yr has been placed along the shoreline adjacent to Wiggins Pass. The recent approval of a cultural resources report on the Delnor Wiggins Park beaches should clear the way for disposal of dredged material on dry beach and have increased staying power compared to recent practices.

Department: Dredge material has been placed in the near-shore areas to both the north and south of the Pass since the 2018 IMP. However, these did not enhance any beach projects and is therefore not eligible for the award of points.

CEG calculated value: 0

Criteria in 161.101(14) applicable to inlets

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

Local Sponsor: Yes, active state and federal permit.

Department: Verified

Federal funds available (3 points)	Score	0
---	--------------	----------

Local Sponsor: No

Department: Verified

Total amount of previous state funding (4 points)	Score	2.3
--	--------------	-----

Local Sponsor: N/A

Department: Fiscal year 2012/2013 through 2021/2022

Total funds: \$2,292,320.50

Secured local funds (2 points)	Score	2
---------------------------------------	--------------	---

Local Sponsor: Yes

Department: Draft Resolution was submitted by application deadline.