



**Florida Department of Environmental Protection
Beach Management Funding Assistance Program
Guidance Document for FY 2018-19 Hurricane Irma
Supplemental Funding Requests**

The Florida Legislature appropriated \$11,198,282 to assist counties with sand replacement associated with beach erosion losses from Hurricane Irma. The legislation provided this funding as a match to federal funds, or otherwise up to 50 percent of beach and dune restoration costs, where federal assistance is not provided. Counties must submit a written request for funding and a scope of work for the proposed post-Irma storm recovery projects. In addition, applicants are requested to provide information as outlined in this guidance document for the assessment of funding requests.

Applications are due by October 1, 2018.

Submittals should be addressed to:

Florida Department of Environmental Protection
Beach Management Funding Assistance Program
3900 Commonwealth Boulevard, MS 3601
Tallahassee, FL 32399-3000

OR

Email Beaches_Funding@dep.state.fl.us

Please provide the following information for each request:

CONTACT INFORMATION

1. County Name: Nassau County, FL
Nassau County Board of County Commissioners, Acting as the head of the
2. Local Sponsor: South Amelia Island Shore Stabilization Municipal Services Benefit Unit (SAISS-MSBU)

(Write the name of the local coastal government managing the project. If it is the county government, write the name as it should appear on the agreement. If it is another local coastal government, write the name of the local coastal government.)

3. Local Sponsor FEID Number (FEID): 59-1863042

4. Has the Local Sponsor received acknowledgment from the county government to manage the project on behalf of the county government? (Yes or No): Yes

(If the county is not managing the project, a delegation memo or resolution is requested from the county government in support of the Local Sponsor managing the project. If costs will be shared, an interlocal agreement will be acceptable.)

5. Local Sponsor Contact Name: Michael S. Mullin, Esq.
William R. Moore (for technical matters)

6. Local Sponsor Contact Title: County Manager
7. Mailing Address: 96135 Nassau Place, Suite 1 Yulee, FL 32097
8. Phone Number: (904) 530-6010
9. Email Address: mmullin@nassaucountyfl.com
10. Additional Contact Information (Optional): Bill Moore (904) 753-4178; moor1706@bellsouth.net

HURRICANE IRMA IMPACTS

Please review the report at the link below and answer the following questions. Please attach a post-storm engineering report with supporting information, if available.

Hurricane Irma Post-Storm Beach Conditions and Coastal Impact in Florida:

https://floridadep.gov/sites/default/files/H_IRMA_Post-Storm_Report.pdf

11. Using the information from the report, fill in the information that corresponds best with the proposed project area of this request:

County: Nassau County, FL

Locations	Reference Monuments	Erosion Condition
South Amelia Island	R-59 to R-75+250	Condition II to Condition III
		SEE ATTACHED REPORT

Please attach separate sheet if additional space is needed.

SCOPE OF WORK

12. A scope of work must be submitted with this request. The scope of work must include a detailed description of the work to be conducted, a schedule or timeline for the completion of work, and the estimated costs for each task. Based on the information in the scope, fill in the following table:

Work to be completed as part of larger-scale renourishment, see attached report and cost opinion

Question	Response
Has the work started? (Yes or No)	No
What date did work start? (month/day/year)	n/a

Question	Response
Has the project been completed? (Yes or No)	No
What date did work end? (month/day/year)	n/a
If work has not started, when is work proposed to start? (month/year)	May 2020 (earliest)
What is the length of the project? (feet)	15,840 feet
What is the volume of sand to be placed? (cubic yards)	1,900,000 (approx.)
Will all sand be placed above the mean high water line? (Yes or No)	No
Will the project include FEMA or FCCE (federal) funding? (Yes or No)	Yes (anticipated)
Has a FEMA Project Worksheet been issued? (Yes or No) <i>(If yes, then please attach a copy of the project worksheet.)</i>	No (is pending)
Has FCCE (federal) funding been approved? (Yes or No) <i>(If yes, then please attach a copy of the project worksheet.)</i>	No (non-Federal)

CERTIFICATION

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

Signature

Michael S. Mullin, Esq.

Printed Name

Date

South Amelia Island Shore Stabilization Project
Hurricane Irma Damages to Engineered Beach Nourishment Project

Supporting information for:

FY 2018-19 Hurricane Irma Supplemental Funding Requests

01 October 2018

Post-Irma Project Narrative:

The Florida Legislature appropriated \$11,198,282 to assist counties with sand replacement associated with beach erosion losses from Hurricane Irma. The legislation provided this funding as a match to federal funds, or otherwise up to 50 percent of beach and dune restoration costs, where federal assistance is not provided. Counties must submit a written request for funding and a scope of work for the proposed post-Irma storm recovery projects (FDEP, 2018).

The engineered South Amelia Island Shore Stabilization Project was impacted by Irma from September 9-12, 2017 with elevated storm surge and damaging storm waves. Elevated surge levels, peaking over 6.34 ft-NAVD88 (~3.95 ft above the Mean High Water), impacted the shoreline for nearly 2 days and wave heights exceeding 20 ft occurred at the offshore edge of the project limits. The wave and tidal surge conditions combined to produce wave runoff exceeding 10 to 11 ft-NAVD, based upon observation of wave overwash of sand and wrack debris.

Erosion damage to the engineered beach project was documented by comparison of the pre-storm project monitoring survey of March 2017 to the post-storm project design survey of September 2017. Both surveys include 31 beach profiles, each located at historical transect locations based upon the FDEP R-monument system. The survey transects were carried offshore beyond the typical depth of significant survey change (-20 ft-NAVD is typically used for the lower limit of volume change calculations in the project monitoring program). After removing the average annual background erosion volume from the measured volume changes between March 2017 and September 2017, the calculated Hurricane Irma related-impact to the engineered beach nourishment project is a loss of -134,100 cy. Of that total, -126,050 cy occurred along the SAISSA shoreline segment of the project and -8,050 cy along the AISP shoreline segment (AISP damages not included herein). A detailed engineering report is attached (OAI, 2018).

Continued...

Scope-of-Work for Irma Repairs

It is proposed to replace the sand lost due to the impacts of Hurricane Irma as an add-on to the currently proposed third renourishment of the South Amelia Island Shore Stabilization Project. That project is currently planned for construction in the late Spring/Summer of 2020 at the earliest. Permitting and design activities are currently underway.

The beach renourishment project shall be constructed via hydraulic cutterhead/pipeline dredge from a borrow area located upon the Nassau Sound ebb shoal, located at the southern end of Amelia Island. The Hurricane Irma damages will be restored during the course of construction. With a full renourishment and restoration of the beach fill template, the Irma damages, as well as older Hurricane Matthew damages, will be accounted for in the larger constructed beach fill template.

Opinion of Probable Cost and Request for FDEP Hurricane Irma Supplemental Funds

Pre- and post-storm surveys reveal the need to replace 126,050 cubic yards of beach compatible sand due to the impacts of Hurricane Irma. **The attached opinion of probable cost** cites an “all-in” estimated per-cubic-yard construction price of \$10.00/cy, for a SAISSA-segment Irma-related total of \$1,260,500.00¹. Of that total eligible amount, FEMA is expected to reimburse 75%, and the FL Division of Emergency Management (FL DEM) is expected to provide 12.5%. The remaining 12.5%, or \$157,562.50, is the responsibility of the local sponsor.

It is thus requested that FDEP provide 50% of the local share, totaling an estimated \$78,781.25.

¹ It is anticipated herein that the engineering costs will be cost-shared with the FL DEP as part of the normal Local Government Funding Request process, some of which has already been committed to by the FL Legislature.