



## AGENDA ITEM SUMMARY

### Item # 8

**MEETING DATE:** September 5, 2023

**ITEM TITLE:** Beach Nourishment Maintenance and Monitoring Plan

**ITEM SUMMARY:** The 2022/2023 project was designed using an assumed rate of loss based on a per cubic yard a foot per year average. Assuming a 5-year nourishment cycle, the Town's project is anticipated to require approximately 375,000 cy of sand in 2027.

Success of a beach nourishment project is often determined by how long the project lasts before maintenance is required. Regular monitoring is necessary to document and evaluate whether the project is performing as designed, to identify maintenance and re-nourishment requirements, and to evaluate project impacts.

This Maintenance Plan serves as documentation that the Town of Southern Shores' Beach Nourishment Project meets the criteria established by 44 CFR 206.226(j)(2), making us eligible for reimbursement for sand lost under certain conditions.

§ 206.226 Restoration of damaged facilities. - Work to restore eligible facilities on the basis of the design of such facilities as they existed immediately prior to the disaster and in conformity with the following is eligible:

(j) Beaches.

(2) Improved beaches. Work on an improved beach may be eligible under the following conditions:

- (i) The beach was constructed by the placement of sand (of proper grain size) to a designed elevation, width, and slope; and
- (ii) A maintenance program involving periodic renourishment of sand must have been established and adhered to by the applicant.

The Maintenance Plan allows the Town to be eligible for the Public Assistance. Replacement of sand on beaches is only eligible under certain conditions. A beach is considered an eligible facility when all of the following conditions exist:

- The beach is not a federally constructed shoreline under the specific authority of USACE

- The beach was constructed by the placement of imported sand—of proper grain size—to a designed elevation, width, and slope; and
- The Applicant has established and adhered to a maintenance program involving periodic renourishment with imported sand to preserve the original design or a specific engineered design that is justified and clearly stated in the maintenance program.

This Maintenance Plan will be updated regularly to reflect results of monitoring, construction of additional projects, maintenance events and changes in schedules.

**REQUESTED ACTION:** Staff recommends that the Town Council approve a motion to adopt the attached Town of Southern Shores Beach Nourishment Project Maintenance Plan as written.

**ATTACHMENT:** Town of Southern Shores Beach Nourishment Project Maintenance Plan