

**Beach Nourishment Project Report Establishment of a Municipal Service District
For beach erosion control and flood and hurricane protection works in accordance with NCGS
160A-535 - 160A-544**

1. The attached map identifies the proposed Municipal Service District.

The total project length for the 2020/2021 renourishment project is approximately 3.4 miles and includes fill from SE 63rd Street to approximately Middleton Avenue. It is anticipated that the project area will receive approximately 756,000 cubic yards or approximately 43 cy/ft of nourishing sand. The project is designed to provide a dune engineered to withstand a 25-year return period storm event and the project is designed to advance the shoreline seaward up to 80 feet depending on the area to be nourished. The sand will be dredged from an approved borrow area about 1 mile offshore of Caswell Beach from Jay Bird Shoals.

The total project length planned for the 2021/2022 renourishment project is approximately 5.4 miles and includes fill from Middleton Avenue to The Point and a second area of the project from the Town's eastern boundary to SE 63rd Street. It is anticipated the project will receive approximately 886,000 cubic yards or approximately 32 cy/ft of nourishing sand (depending on bids received). The project is designed to provide a dune engineered to withstand a 25-year return period storm event and the project is designed to advance the shoreline seaward up to 93 feet, depending on the area to be nourished. The sand will be dredged from a combination of Jay Bird Shoals and another approved borrow area about 2 miles offshore of the west end of Oak Island known as Central Reach.

2. Statement indicating that services are needed in the district to a demonstrably greater extent than the rest of the Town:

The Town is committed to beach nourishment to maintain a recreational beach, to protect structures, to protect public access, to maintain a tax and economic base, and to protect infrastructure improvements, including facilities for public recreational access, roads and utility lines. In order to maintain the aesthetic and environmental value of the beach strand, the Oak Island Town Council has determined that the creation of a municipal service district for erosion control and flood and hurricane protection works will be for the benefit of those properties located within the service district boundaries.

The proposed district is in need of projects and programs (meeting the standards of NCGS 160A- 537(a)) to a demonstrably greater extent than the remainder of the town in order to meet the needs and goals set forth above.

3. Plan for providing proposed services in the Municipal Service District:

The projects entail the dredging and placement of approximately sand as follows:

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The MSD area is at greater risk of damage from shoreline retreat and storm surge when compared to the remainder of the Town.