

# Hog Island

A nature-based wetland protection and habitat restoration solution using Natrx ExoForms™ along Hog Island in Gloucester County, Virginia, an area which has historically experienced severe erosion. The National Oceanic & Atmospheric Administration identifies Hog Island as a top priority for Federal Chesapeake Bay habitat restoration activities.



 Gloucester County, Virginia

 July 2023

## PROJECT OVERVIEW

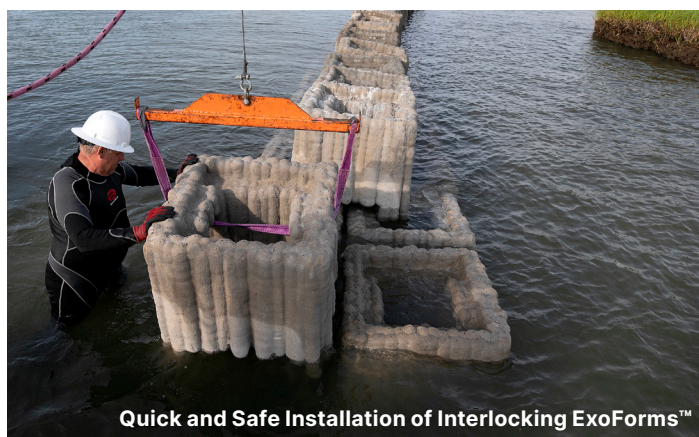
**Partners:** Middle Peninsula Planning District, National Fish and Wildlife Foundation, National Oceanic & Atmospheric Administration

**Project:** Nature-based wetland protection and habitat restoration

**Application:** Natrx ExoForms™ for high and low wave energy environments

## PROJECT GOALS

- Protect the residential and commercial properties along Monday Creek and the York River
- Protect and enhance maritime habitat for shorebirds, oysters, and other marine life
- Reduce erosion and sedimentation into the Chesapeake Bay



Quick and Safe Installation of Interlocking ExoForms™

## PROJECT OUTCOMES

- Conducted geospatial analysis to identify erosional risk areas, optimize client budget, and develop conceptual design
- Designed customized interlocking ExoForms for high-wave energy areas exposed to Mobjack Bay and low crested oyster reef ExoForms for low energy areas
- Placed 972 linear feet of large stacked Natrx ExoForm™ units and 122 linear feet of low crested oyster reefs
- Added available surface area for 14 million oysters that will filter water and provide foundational habitat
- Will prevent 40,000 tons of eroding sediment from entering the bay system and contributing to suspended sediment and nutrient loading



Detail of Natrx ExoForms™ with Strategic Voids