



PROJECT

Manahawkin Bay Bridge

LOCATION

Manahawkin, New Jersey

APPLICATION

Bridge Scour Protection

PRODUCT

Triton UX200 Marine Mattresses

QUANTITY

+/- 1,600

OWNER AND/OR DEVELOPER

City of Cape May, State of NJ DNR

Contractor

Schiavone Construction

ENGINEER

WSP Parsons Brinkerhoff

INSTALLATION DATE

January 2017

PROJECT DETAILS

Route 72 is the only highway access connecting Long Beach Island to the mainland. Subsequent to Hurricane Sandy, localized scour conditions were identified at three of the Thorofare bridges during regular NJDOT inspections. Most recent analysis determined the bridges to be scour critical, with future surges leading to instabilities and sediment erosion around the bridge foundations. It was also deemed necessary to protect a newly constructed bridge that was also part of a future project.

Triton Marine Mattresses with grout bags was the chosen solution due to its low-profile armoring with total depths ranging between 6 – 12 in. for the scour protection project. Mattresses were also selected as a superior solution for future maintenance and adaptability to dynamic changing conditions. WSP Parson Brinckerhoff earned an ACEC National Recognition Award for exemplary engineering achievement for its design of the project.

The site was re-visited in August of 2019 to evaluate performance. The mattresses are beginning to show signs of oyster and SAV growth after 18 months.

Manahawkin, New Jersey



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