

### DUNE CORE COASTAL PROTECTION QUOGUE, NY

#### COASTAL PROTECTION

#### Product: Maccaferri MacTubes

##### Introduction and Problem

During a Nor'easter in March of 2010, heavy surf and high winds devastated the dune system protecting beach front homes, near the Hampton's, on the twin forks of Long Island, New York. With the dunes gone, there was nothing left to protect the beachfront properties from future storms.

Instead of doing a "sand push" along the beach, or trucking in sand to rebuild the dunes, Maccaferri was approached to offer an alternative long term solution. The steel sheeting shown in Figure 1 was a temporary solution after an earlier storm; however, the US Army Corp of Engineers mandated that it was to be removed. The MacTubes were installed as the only means of defense against future storms.

##### Solution

Using our MacTube MT-OS400 and a single scour protection system, a long term design solution was found. The tubes, along with the scour apron, were installed in front of the now exposed bulkhead and a dune core was used.

The MacScour, with a single 3 foot anchor tube, was put in place first. The MacTubes were then unrolled on top of the scour apron.

After the tubes were installed they were covered with sand. Later, the area was vegetated with native plants and a dune fence was put in place.

##### Client

ALBERT MARINE CONSTRUCTION

##### Main Contractor

ALBERT MARINE CONSTRUCTION

##### Designer

MACCAFERRI

##### Products Used

MACCAFERRI MACTUBES

##### Date of Construction

MAY, 2010



Steel Sheet Bulkhead left exposed from the storm

Figure 1



During Construction

# MACCAFERRI



MacTubes stacked in pyramid



Covering the MacTubes with sand to create the dune

## MACCAFERRI

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