

SAN MIGUEL BREWERY - DAVAO

DAVAO CITY, DAVAO DEL SUR, REGION XI, PHILIPPINES

Seawalls and Shoreline Structures

Problem

San Miguel Corporation is the Philippines' largest beverage, food and packaging company. It owns the San Miguel Brewery Inc. (SMBI), considered as the largest producer of beer in the country. One of its five breweries in the Philippines located in Davao City, Davao del Sur, is located near a coastline. Although it is a strategic location for the brewery, its perimeter along the shoreline has been subjected to continuous erosion due to wave and tidal actions.

To solve the problem, SMBI required a permanent and yet cost-effective solution especially to retain the eroded portions of its perimeter.

Solution

Based on the provided data of the customer, the maximum height of waves in the area is around one meter. In this, together with other design parameters, Maccaferri engineers proposed a gabion-type wall structure combined with Reno mattress apron embedded into the sand on the seaward side of the perimeter.

Maccaferri's polymeric-coated gabions and Reno mattresses were used. The polymeric coating provides durability protection against corrosion. Due to the system's flexibility and integrity, as well as its wave-dissipating mechanism, Maccaferri's solution has been proven effective and was approved by SMBI engineers.

Client: San Miguel Corporation

Designer / Consultant: SMBI

Contractor: Infratex Philippines Inc.

Products used (Qty.)

- Gabion	510 cu.m.
- Reno Mattress	4,116 sq.m
- MacTex Non-woven Geotextile	5,852 sq.m
- Biomac natural	1,230 sq.m.

Date of construction: 09/2004 - 06/2005



Before Construction



During Construction



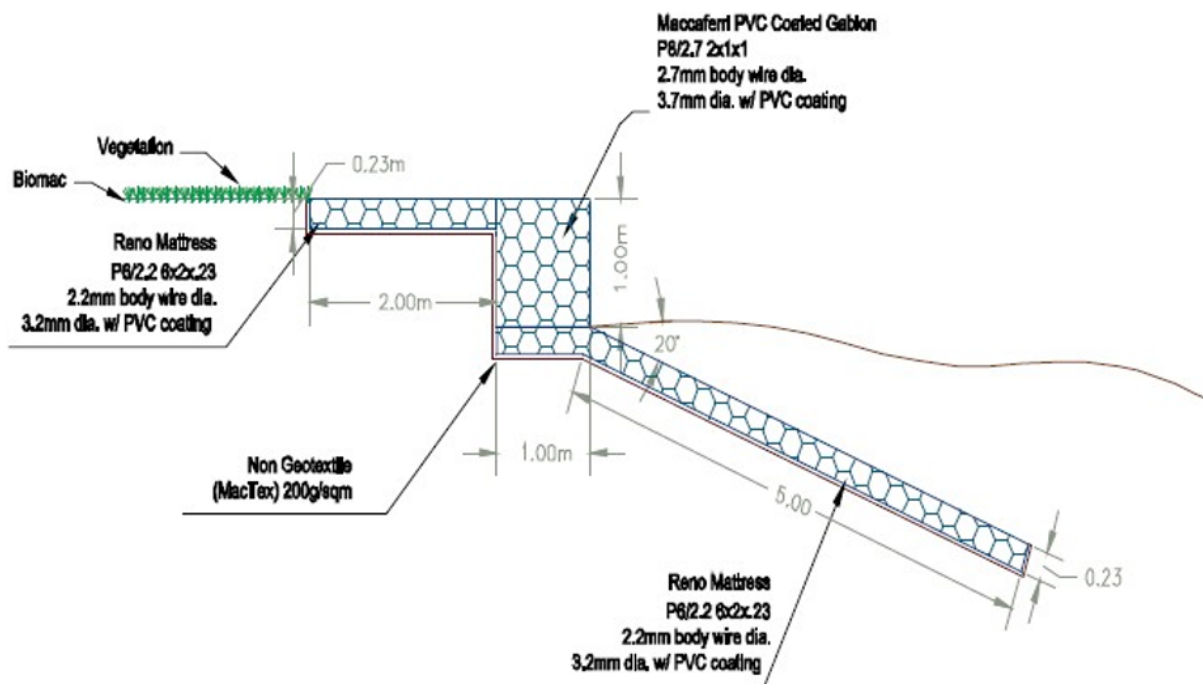
Near Completion



Near Completion



Near Completion



Proposed Section

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