

Nature survey and impact assessment coastal protection Pietermaai 68

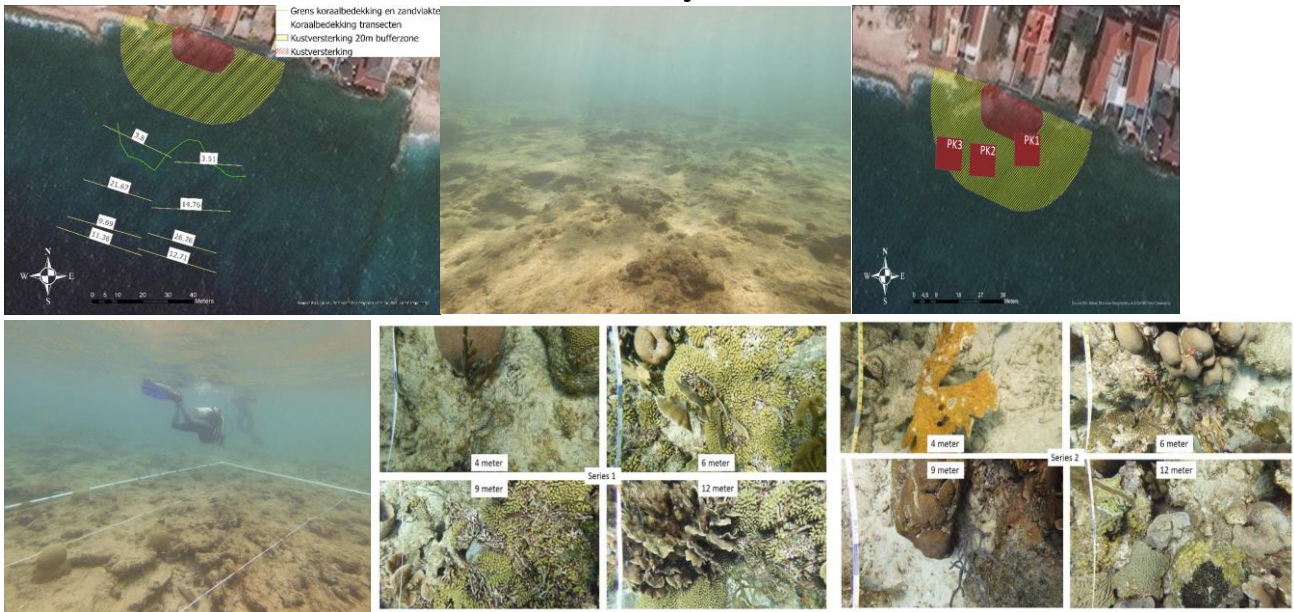
Curaçao, 2023

Client info:

Name: Western trading Co. N.V.

Sector: Industry and Commerce

Location: Curaçao



Rationale: Western Trading Co. intends to develop coastal protection for their assets at Pietermaai 68. EcoVision conducted a survey of the main marine nature values in the area and conducted an impact assessment of the proposed design. With this study the proposed design was tested to see if it complies with the requirements from the government.

Approach: The study was a marine survey. This consisted of literature studies, an area description, coral cover, SPAW-II coral tagging, and coral species count within the footprint and buffer zone. The entire area was systematically investigated using Scuba and snorkel gear. SPAW-II species were tagged using a handheld GPS. For coral cover 10m x 10m quadrants were used on locations within the footprint and bufferzone where coral cover was expected to be high. Outside of this area, coral cover was estimated using transect lines. Coral cover was estimated by analysing pictures of frames using point count software CPCe. The results were imported in GIS to create a spatial overview of the natural values. The results were interpreted, impacts described, and the design was evaluated for compliance with the requirements from the government, and recommendations were made for reducing impact on the coral reef.

Outcome: A report was submitted to the client. The report presents recommendations for adapting the design of the expansion in order to preserve marine values.