

# Case Study

**Project:** Airlie Island Protection  
**Location:** Airlie Island, NW Coast, Australia  
**Contractor:** Wylie & Skene  
**Client:** Apache Energy  
**Consultant:** M.P. Rogers & Associates  
**Date:** August 2000



## ELCOROCK®

Scour to the western shore of Airlie Island located off the North West coast of Australia was beginning to undermine the Apache Energy Flare tower.

Initially the construction of a limestone Rock Wall was proposed. However, the cost to transport the required rock and heavy equipment to the island proved prohibitive.

Wylie & Skene approached ELCO Solutions Pty Ltd for an alternative solution. Due to the urgency and remote location of the site ELCOROCK® containers were proposed.

The ease of handling, filling and placement of the ELCOROCK® containers makes them ideal in locations where large machinery is not available and suitable construction materials are scarce.

The protection consisted of 49m x 3.2m embankment with a 1:2 slope. A single layer of 2152RX8 ELCOROCK® Containers, to replace the Limestone rock armour, was placed on ELCOMAX® 1200R geotextile.



*Aerial view of project*



*Project complete*

The ELCOROCK® solution provided substantial cost savings and simple construction techniques.

Once the concerns about durability and rehandling of the ELCOROCK® containers had been dealt with, the alternative was accepted by the consulting engineer.

A total of 650 ELCOROCK® containers and 600m<sup>2</sup> ELCOMAX® 1200R geotextile, was installed on this project.

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