

Case Study

Project: **Stockton Beach S.L.S.C**
 Location: **Newcastle, NSW, Australia**
 Client: **City of Newcastle**
 Contractor: **City of Newcastle**
 Consultant: **WBM Oceanics**
 Date: **October 1996**



ELCOROCK®

In 1996, severe beach erosion began to threaten the safety of the Stockton Beach S.L.S.C. The Newcastle City Council was faced with two alternatives; Demolish the existing building and construct a new club house, or construct a temporary sea wall to halt the erosion whilst a total coastal management strategy was completed.

The ELCOROCK® alternative was chosen due to the cost savings, ease of construction and aesthetic appeal.

The toe of the wall was located 0.5m below the low tide level and a "Dutch Toe" scour protection detail was included. The wall was constructed using a double layer of 2t ELCOROCK® containers at a slope of 1:1.5.

ELCO Solutions Pty Ltd supplied the filling frames and sewing machines to help with the construction. The containers were placed using a rock grab attached to a 24t excavator. Approximately 15 bags were placed per hour.

A total of 460, 2152RX8 ELCOROCK® Sand Containers together with 900m² ELCOMAX® 1200R was installed.



During construction – ELCOMAX® install under ELCOROCK®

Natural vegetation was planted above the wall and this has now begun to grow over the front face of the wall. The soft user-friendly character of the ELCOROCK® containers, combined with the environmentally friendly appearance, make this product the ideal solution for popular beaches.



Photo taken July 2000

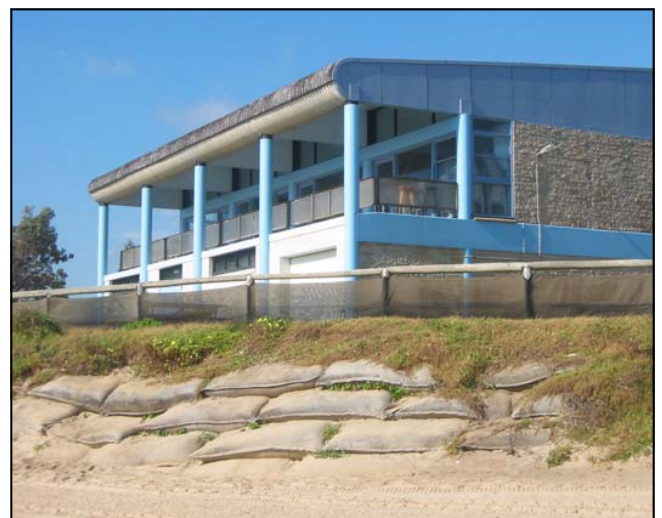


Photo taken January 2004

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