

Case Study

Project: **Pelican Point Protection**
 Location: **Lake Macquarie, NSW, Australia**
 Client: **Lake Macquarie Council**
 Contractor: **Civil Lake**
 Consultant: **WBM Oceanics**
 Date: **January 2004**



ELCOROCK®

Lake Macquarie the largest salt-water lake in Australia is located south of Newcastle and approximately 120km north of Sydney. The lake has an overall length of some 22km and a width of almost 8km covering an area of approximately 110 square kilometres. Much of the catchment, particularly the foreshore and surrounds is extensively urbanised and as a consequence the lake is extremely environmentally sensitive.

The dynamics within the lake are complex and many areas are experiencing severe erosion. A particular section of the eastern foreshore of the lake, near Pelican was experiencing increasing erosion action. As a result, a design brief was prepared by the office of the Lake Macquarie and Catchment Co-ordinator, a state government initiative, to examine measures to minimise any further progress of this erosion.

A revetment consisting of ELCOROCK® sand filled geotextile containers was selected based on their suitability in marine environment, their cost savings, ease of construction and an important consideration, that of a user friendly structure.

Approximately one hundred 0.75m³ containers were installed under supervision of Geofabrics Australasia and ELCO Solution Pty Ltd engineers.



Lifting ELCOROCK® container

The resulting structure has pleased the authorities and residential groups alike, and it is likely that further ELCOROCK® structures will be constructed at critical locations around Lake Macquarie.



During construction



Project complete

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