

Case Study

Project: **Aspendale Foreshore Protection**
 Location: **Aspendale Beach, Victoria, Australia**
 Contractor: **Coastal Engineering Services**
 Client: **Kingston City Council**
 Date: **2005**



ELCOROCK®

Aspendale Beach has been experiencing severe loss of beach and dune volume, losing around 6,000m³ of sand every year, exacerbated by recent storm events and natural sand drift. The loss of sand has concerned local residents, particularly those with prime real estate with properties located right on the dunes.

The shape of the coastline and the proximity of the Mordialloc Creek do not permit the natural sand replenishment to outweigh the current rate of loss. Some kind of solution is needed to prevent loss of further material and also protect the coastline property.

Kingston City Council and the Department of Sustainability and Environment, in conjunction with Geofabrics Australasia and Coastal Engineering Services, decided to construct a trial section along the beach to both test the effectiveness of the structure and also measure the community response to this type of structure. The trial section is approximately 50m long with the lower toes bags buried to a depth of 1.2m below the normal beach level, with the top of wall conforming to the existing dune levels.



During construction

The ELCOROCK® wall is constructed with the 0.75m³ containers, with the sand coloured vandal deterrent and UV protection on all exposed faces.

The trial has been successful, meeting both the structural requirements and has also gained general community acceptance.



Construction complete



Aspendale Beach restored

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