

Case Study

Project: ELCORock® - Belongil Spit
 Date: July – September 1999
 Client: Byron Shire Council
 Location: Byron Bay, New South Wales



The wild seas of 24 May 1999, dubbed “Massive Monday” by surfers, saw the biggest waves in 25 years pounding the Northern NSW and Gold Coasts. Large swells and high tides in July 1999 further damaged the coast, one of the hardest hit areas was the Belongil Spit, Byron Bay, leaving 8 houses in severe danger of toppling into the sea.

Fortunately local police issued an emergency order to residents to build “a cost effective and efficient seawall” solution. This consisted of the construction of a **ELCORock®** wall at the toe of the 4m high scour embankment. 0.75m³ ELCORock® containers were chosen because of their ease of filling and placement. These containers provide a soft natural appearance, which is desirable in this popular tourist destination.

ELCO Solutions Australia recommended a wall with a toe located at RL – 0.5m(min) and crest located at max wave height +0.5m above MHWL with a double layer facing. placed in stretcher



Storm damage May 1999



House in danger July 1999



Completed project September 1999

Unfortunately due to restricted funds the wall was only constructed one layer thick and too low to prevent over topping during king tides and large swell. To date the wall has performed well and has protected the existing houses from further threat.

In total 550, **2152RX8 sand containers** were used to stabilise the area, a further 2500 are proposed for additional threatened areas.

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MELBOURNE
 (03) 8586 9111
 Fax: (03) 8586 9186

SYDNEY
 (02) 9821 3277
 Fax: (02) 9821 3670

BRISBANE
 (07) 3279 1588
 Fax: (07) 3279 1589

PERTH
 (08) 9309 4388
 Fax: (08) 9309 4389

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 (08) 8293 3613
 Fax: (08) 8293 1306

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 (02) 4950 5845
 Fax: (02) 4950 5895

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 (03) 6273 0511
 Fax: (03) 6273 0686

TOWNSVILLE
 (07) 4774 8222
 Fax: (07) 4774 8655

Technical Enquiries: 1800 4 BIDIM (1800 424 346)