

Portsea front beach – Options Analysis

Option 4, 5 and 6

Option 4 – Replace sandbag revetment with a rock revetment

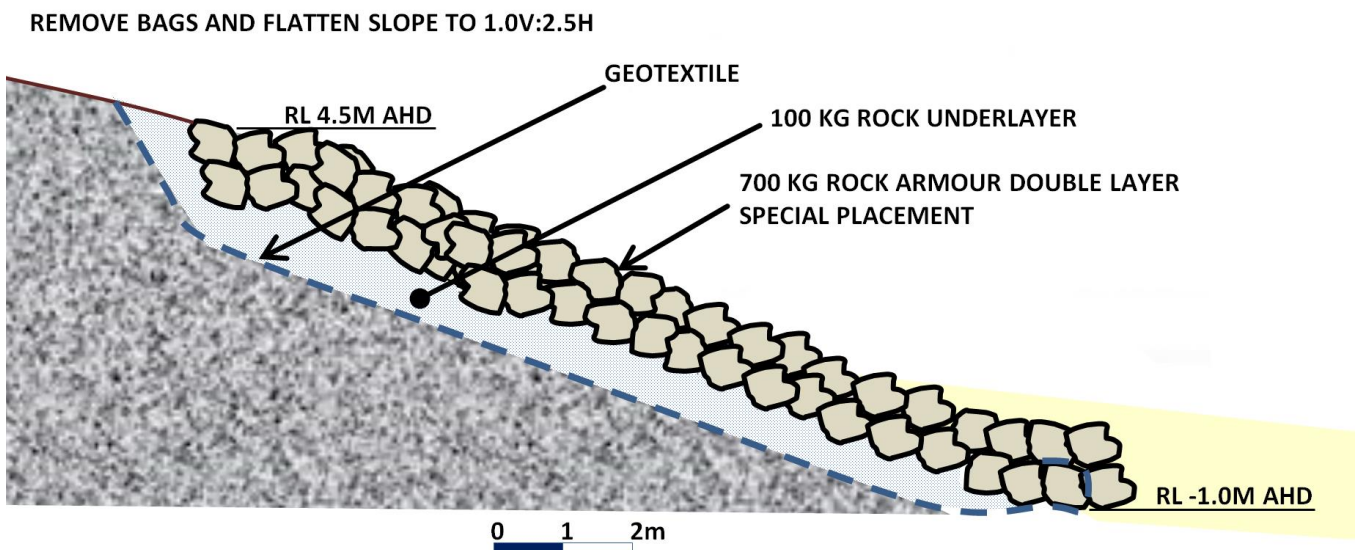
Description

A rock revetment would halt recession of the shoreline.

Scenario

To be assessed with and without sand nourishment.

The sandbag revetment could be replaced with rock, which would be a more robust revetment solution.



Option 5 – Sand nourishment

Description

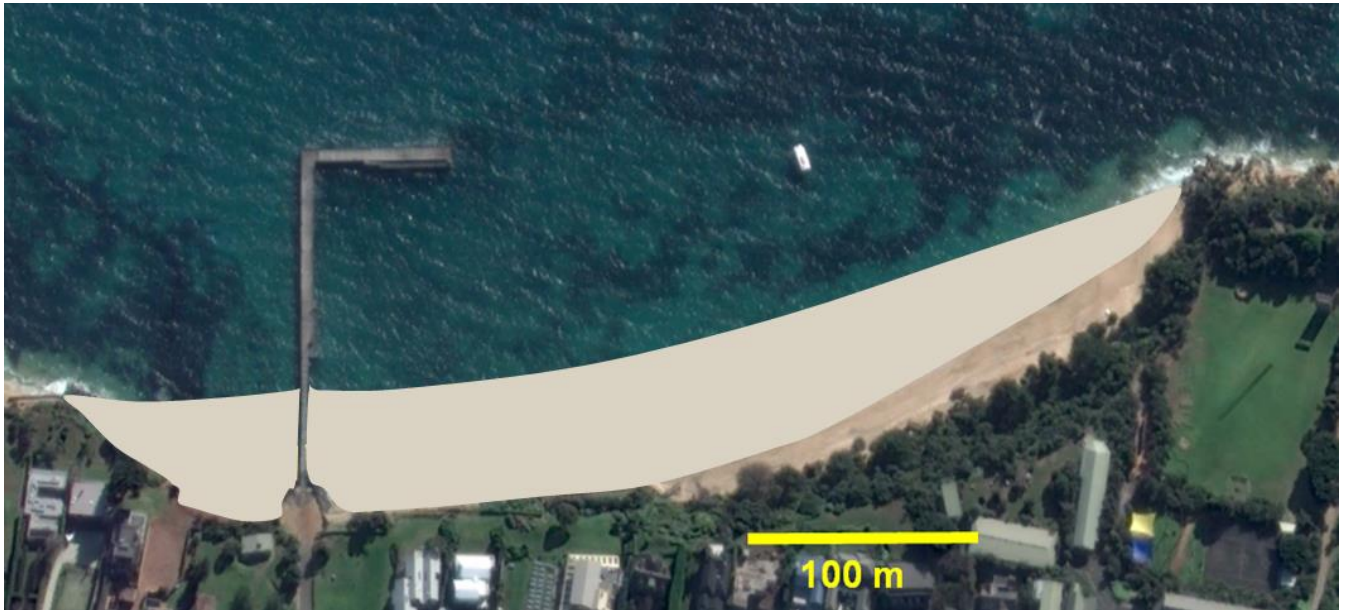
The periodic placement of sand mined from the offshore sand banks to feed the erosion process.

Scenario

One scenario only.

Sand nourishment could be used to widen the beach. This has no impact on the erosion processes and the beach would continue to erode at the rate at which it has so done, requiring continued maintenance. The nourishment could be designed, for example, to widen the beach by an amount to accommodate storm surge plus enough sand to cater for the long term erosion rate, say for 10 years.

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Option 6 – Remove sandbag revetment

Description

This explores what would be the extent of erosion that could occur if no remedial works are undertaken.

Scenario

One scenario only.

This option investigates the removal of the sandbag revetment and what would be the extent of the erosion that could occur if no remedial works are undertaken.