

Mangroves and Saltmarshes

Understanding the Western Port Environment

Tom Hurst, February 2019





Introduction



Coastal invaders







Coastal invaders









Figure 6.3 Abundance of (a) tall wheat grass, Lophopyrum ponticum and (b) the indigenous beaded glasswort, Sarcocornia quinqueflora over the period of control trial.

Bugs in the mud



Moving mangroves



Restoring mangroves

Harvesting seeds and raising seedlings





Survival after planting







Restoring mangroves



Further developments...





Further developments...



Nature-based Coastal Defences – a Hybrid Approach

1. Engineering the pods



- Stability
- Wave attenuation

REEF DESIGN LAB

2. Community consultation





- Open Houses
- Online survey





- Altona, Grantville, Lang Lang
- Coastal defence
- Blue carbon & biodiversity



Clues from natural regeneration?



Future research...

Identify options for erosion control along the Lang Lang coastline to achieve water quality outcomes

Identify differences between current state of WP soft sediment faunal assemblages and earlier descriptions. Produce updated spatial description of subtidal soft sediment areas.

Mangroves and saltmarsh as habitat for animals and plants.

Estimate extent of invasion of key marine habitats and better understand the threat of weeds to coastal vegetation.



Thankyou