

## Community Bulletin

### Nature-based Coastal Defences

**We have two objectives in this project:** To run a world-first field trial of temperate mangroves grown in purpose-designed pods to help coastal protection. And to engage with local communities and stakeholders to promote awareness of nature-based coastal defences compared to traditional solutions.



Altona



Grantville



Lang Lang

REEF DESIGN LAB

Jun

#### Pod Design

During the first six months of the project, our engineers modelled three designs to test the effectiveness of pods to reduce wave height and remain stable under wave forces. The models showed that the design that worked best was the one we call the "waisted planter".

Jul

Aug

Sep

Oct

Nov

Dec

#### Community Open Houses

In November we held three drop-in sessions for the community to learn more about the project.

Jan

#### Pod Manufacture and Deployment

Since the start of 2019 we have been continuously manufacturing the waisted planter pods, producing 105 pods every 2 weeks! And with the help of volunteers, we have now installed 210 pods at Altona and Grantville and 105 pods at Lang Lang.

Feb

Mar

Apr

#### Mangrove seeding

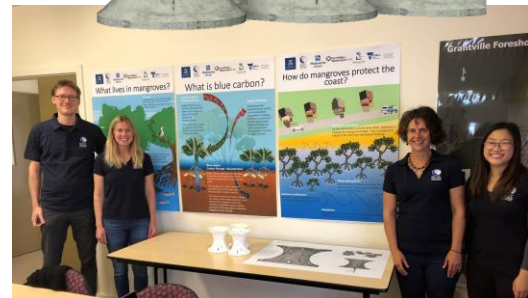
We planted 564 seeds collected from Port Phillip Bay at Altona. It is early days, but 41 days post-planting, 21% of the seeds have grown leaves and are now seedlings. This is as expected at this stage.

#### Surprises and Setbacks

Normally mangroves produce seeds from December – February but the wild mangroves in Western Port Bay did not produce seeds this year. It is not unusual for mangroves to skip a year. However it means that we won't be able to plant mangroves at the Western Port sites until 2020.

#### What's next?

We are working on a second design for pods to trial later this year. This one is a bit easier to manufacture and is currently being tested by our engineers.

SCIENCE INTO  
ACTIONWESTERN  
PORT  
SEAGRASS  
PARTNERSHIP

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Jun