

From the SelectedWorks of Neil Dufty

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The Shoalhaven Foreshore Education Project: promoting good practices in dune management by foreshore residents

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Available at: https://works.bepress.com/neil_dufty/82/

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The Shoalhaven Foreshore Education Project: promoting good practices in dune management by foreshore residents

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Acknowledgement of Country

We would like to acknowledge the Traditional Custodians of the land in which we gather upon today. We acknowledge their continuing connections to the land, culture and community. We pay respect to Elders past, present and future.

Coastal Country







Environmental Education and Coasts



OUR







Shoalhaven coastline









Importance of dunes



- Vegetate role in printrastruct
 They proprotects and the protects and the
- Vegetated dunes play a crucial role in protecting assets and infrastructure
 - They provide a sand buffer that protects against erosion

Dune formation – potential issues



Blowouts can either form naturally, or be instigated by poor dune management



Dune formation – potential issues



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Vegetation vandalism



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Weeds and invasive species

Illegal access tracks...

"death by a thousand paper cuts"

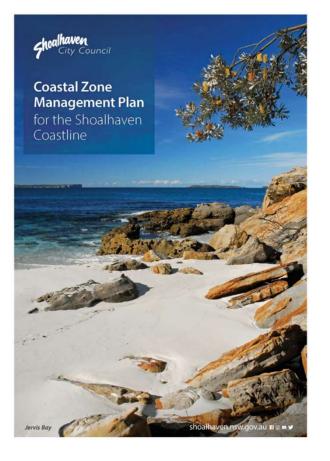






Shoalhaven Foreshore Education Project

- Acknowledging the importance of engaging with local communities to promote positive and collaborative coastal management, the Shoalhaven Coastal Zone Management Plan 2018 set out actions to engage with foreshore residents on the value of dune ecosystems.
- From this, Shoalhaven City Council obtained funding from the NSW Government to engage Water Technology Pty Ltd to assist in developing, implementing and evaluating the Foreshore Education Project.



Planned Activities



- Produce 11 educational fact sheets
- Facilitate three interactive and experiential workshops with foreshore residents at:
 - Mollymook Beach
 - Callala Beach
 - Culburra Beach
- Organise and conduct school excursions
- Educational video
- Community dune planting
- Evaluate the education program



- Primary vegetation (grasses and creepers) forms the incipient dune behind the beach berm. The vegetation traps sand like a net and reduces sand and sall spray travelling away from the beach.
 Secondary vegetation (shrubs and short trees) – stabilises the dunes and deflects wind over the foredune.
- Tertiary vegetation (larger, established trees) located on the hind dure forms an important wind and wave buffer for the areas behind. These parts of the dune can vary and, in some areas, tall trees and shrubs naturally grow closer to the water line. The health of the endemic vegetation in these areas supports the most suitable parts of the dune system that they should be growing.

Remember: All parts of the dune system are important. Low species trap sand and salt spray near the water, whereas taller species with deep root systems stabilise the dunes and protect from large storm waves and wind.





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School excursions were unable to be organised due to the COVID pandemic, clashes with school activities (e.g. NAPLAN testing)

Evaluation

- Council has managed to deliver 4 school excursions since the end of the project - lesson plan produced in the project has been used as a basis for these excursions
- The workshops were received with varying degrees of success

"Pleasant, positive people, presenting clearly...try to tailor it even better to needs".

"Probably my misunderstanding but I thought the workshop would include updated information on the proposed actions e.g. beach access trails."

How would	vou rate th	ne workshor	as a lear	ning experier	nce?

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ANSWER CHOICES	*	RESPONSES	*
✓ Excellent		30.00%	3
- Good		20.00%	2
• ок		20.00%	2
✓ Poor		20.00%	2
 Very poor 		10.00%	1
			10

50% 60% 70%



Customize

Save as

VALUES 1410 VALUES

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Clearly explain the purpose of the

- Clearly explain the purpose of the education activities (and how they differ from other agenda/potential meetings)
- Survey residents' interests beforehand to try to better tailor workshops and integrate learning needs
- Provide free native plants at the workshop
- Consider using an outdoor-indoor hybrid program
- Better cater for people with reduced mobility/ ensure accessibility
- Ensure that there is indigenous input to the workshops preferably through codesign.







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Other suggestions

- Continue to encourage residents to be involved in experiential, volunteer programs such as Dunecare, and citizen science activities such as CoastSnap.
- Extend the education program to target other stakeholders (e.g. tourist operators, real estate agents) and residents at other high risk beaches.
- Use the fact sheets developed to raise awareness at community events.





Video







The project was supported with financial assistance from the NSW Government's Coastal Management Program



Thank you



