



Prepared for:









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introduction

Overlapping Ecologies

Wagonga Inlet is at the geographic and cultural heart of Narooma, one of the South Coast's most dynamic and beautiful areas. The Wagonga Inlet Living Foreshore project, in addition to protecting the coast itself, will also address the community's aspirations and Councils' visions, guiding the delivery of open space, environmental sustainability and community infrastructure. The restoration of the foreshore is an opportunity to explore the enhancement of the estuarine edge, as both destination and a unique catalyser of activity, for diverse populations of many

Narooma is acknowledged as one of the South Coast's gems, easily accessed and buoyed by local growth in tourism, recreation and sustainable lifestyles. Its foreshore can be a multi-functional social place, offering unique opportunities and experiences, enhancing and protecting existing environments, founded on the interests and needs of locals, and meeting the demands of a rapidly changing world, with resilience, diversity and delight.

At the heart of our response to the Wagonga Inlet Foreshore is a recognition of the uniqueness of place, a character generated by its unique ecologies, at the threshold between land and sea. This restoration of this diverse ecosystem and habitat forms the heart of the approach to the Wagonga Inlet Foreshore, offering a civic place both responsive and robust to accommodate changing conditions, now and into the future.

The Wagonga Inlet Living Foreshore restoration is an exemplary step in addressing the social, cultural and environmental needs of the community, reinforcing

the investments in parks, play spaces and new social infrastructure and supporting the demographic, cultural and environmental diversity of the area. With these considerations, the Wagonga Inlet Foreshore will become a place of encounter and experience where residents and visitors of all ages can immerse themselves in a rich and magical environment, one manifest from the natural and cultural heritage of the area, resolutely facing into the future.

In addition to stakeholders' objectives, the project has also accommodated a range of considerations and complexities specific to Wagonga Inlet, the immediate physical context and the greater Narooma area. Moving beyond an engineered solution to foreshore erosion, we have imagined a special place that clearly protects and enhances the identity and character of the coastal environment and its surroundings. The project is an integration of environment, engineering and community, and the blurring of boundaries and barriers between all

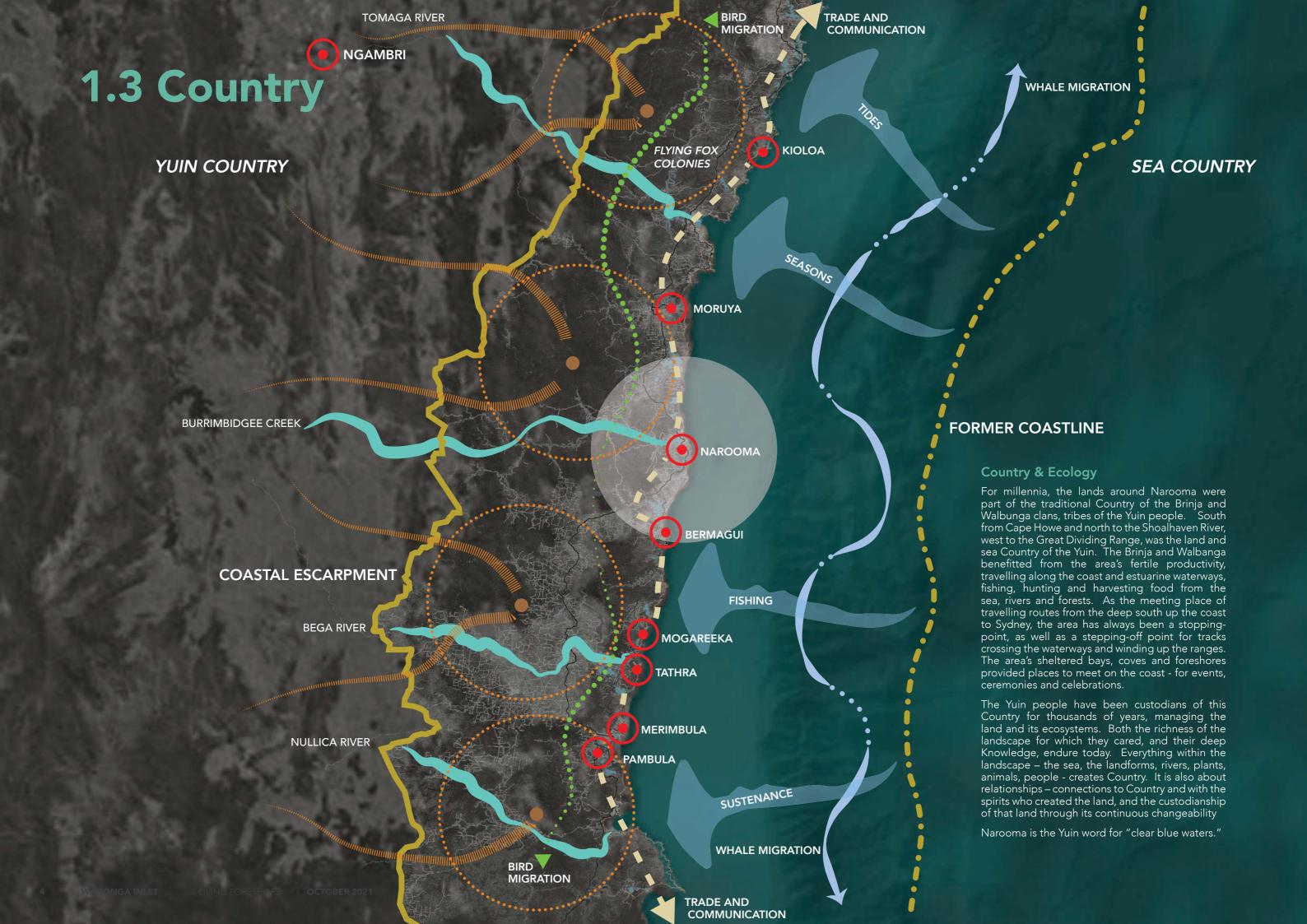
We have embraced the challenges inherent in a changing coastline as key factors in shaping the project, ensuring that it adds to the diversification, activation and environmental performance of the Wagonga Inlet Foreshore, and all of Narooma. The outcomes celebrate these values as key assets in Narooma's coastal future, appreciative of what it is, imagining what it could be, recognising that the area is, and has always been, a unique place, at the intersection of land and sea, road and river, the coast and the heartland, and a meeting place for many rich and diverse ecologies, cultures and experiences.

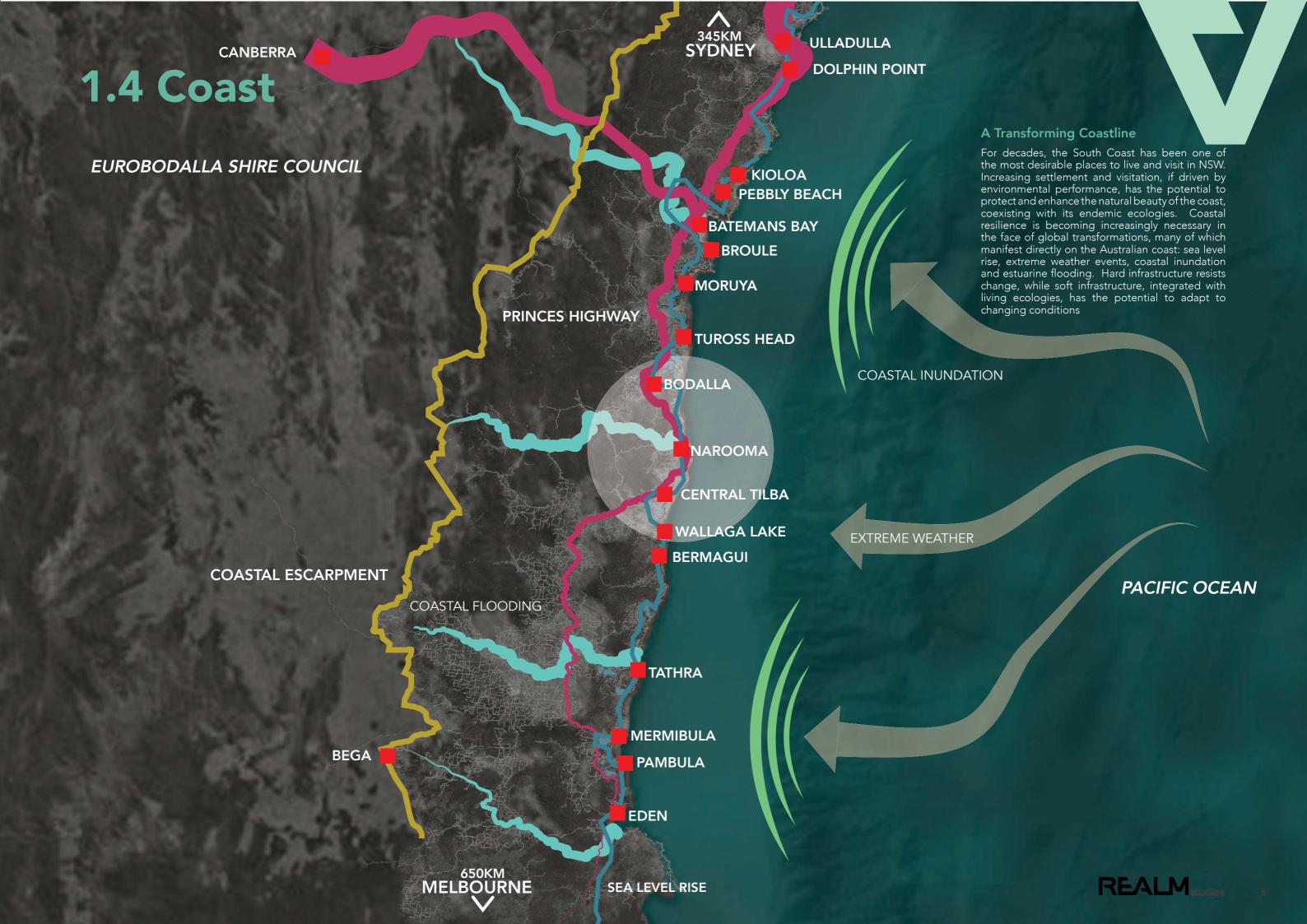


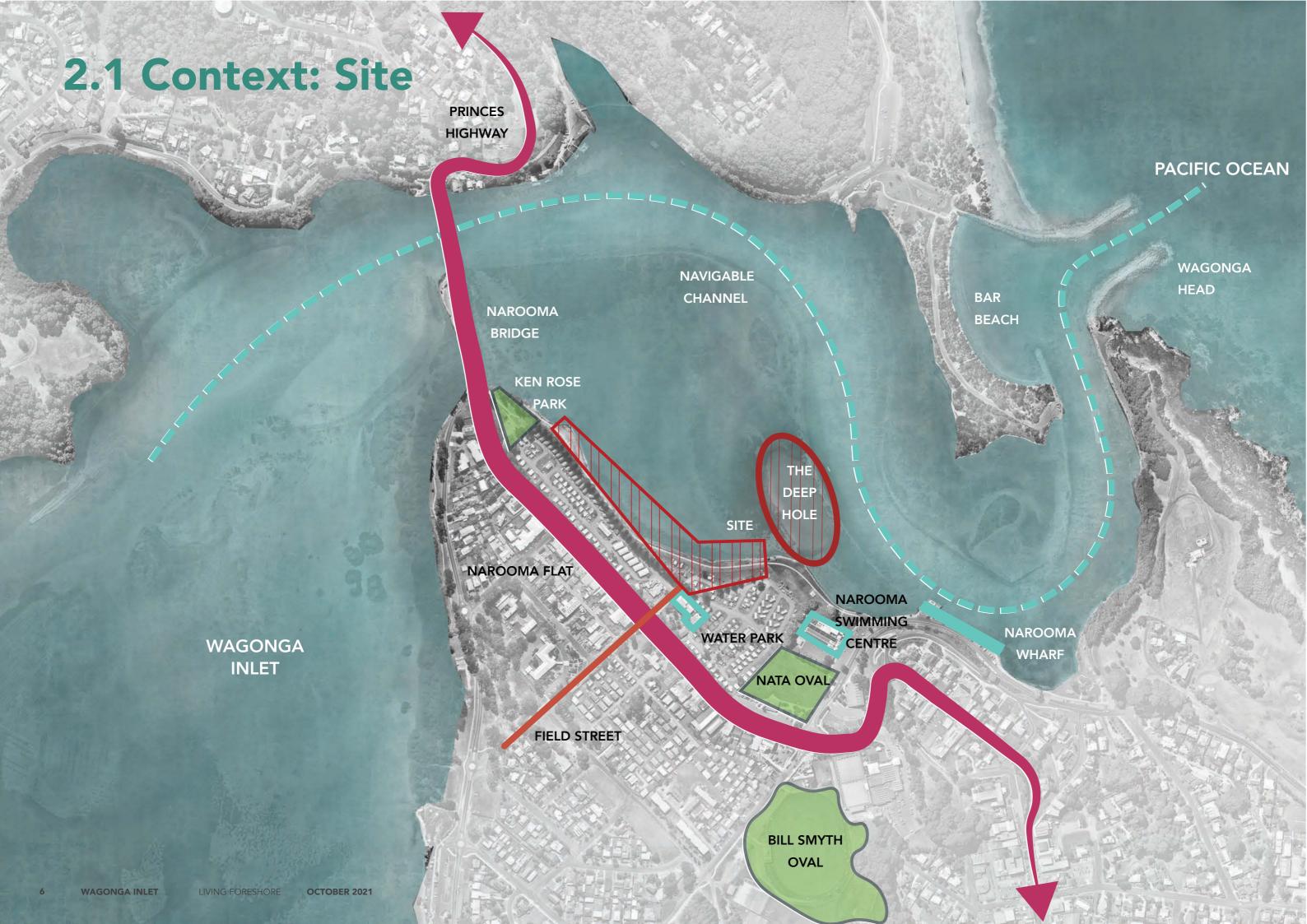


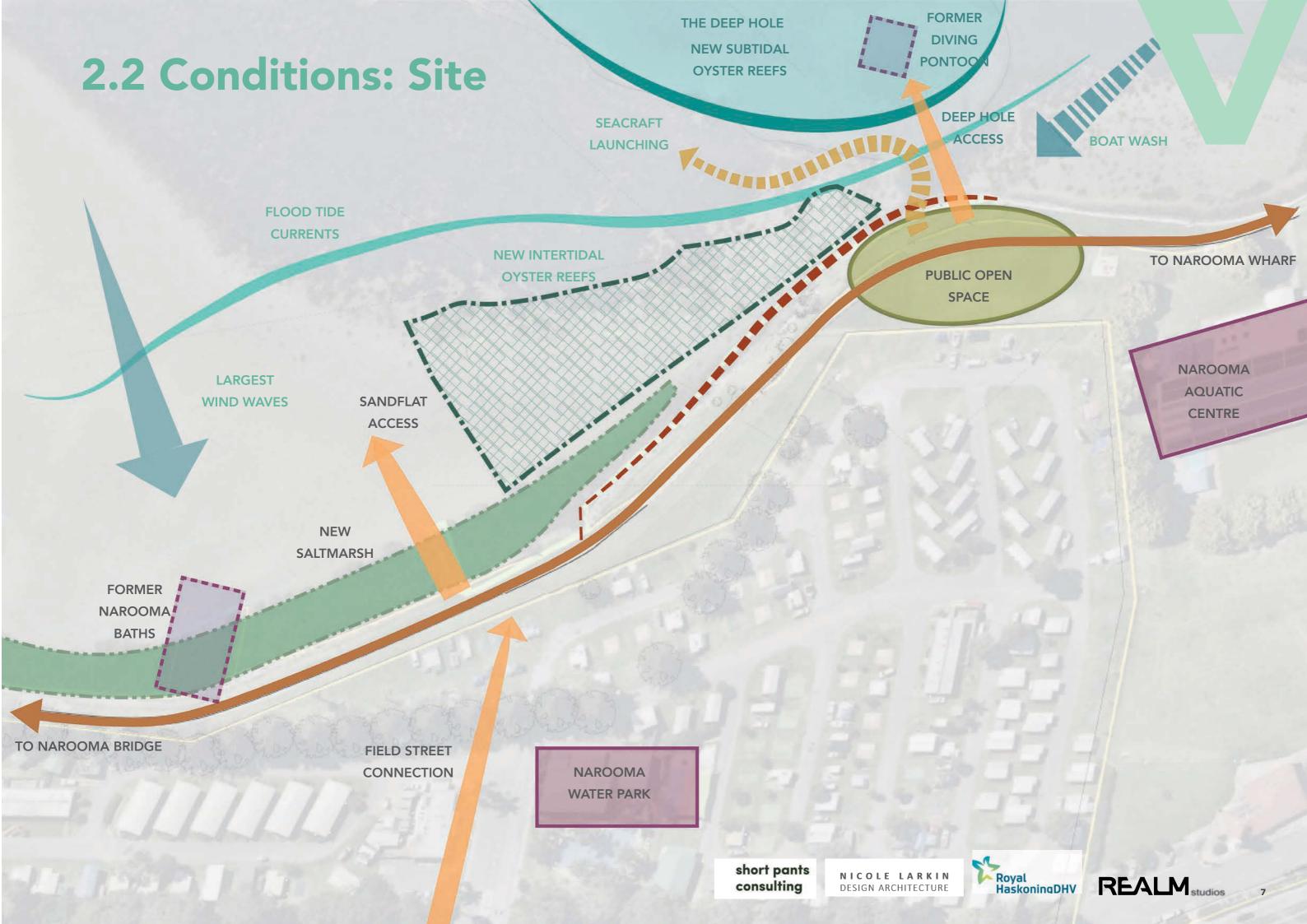














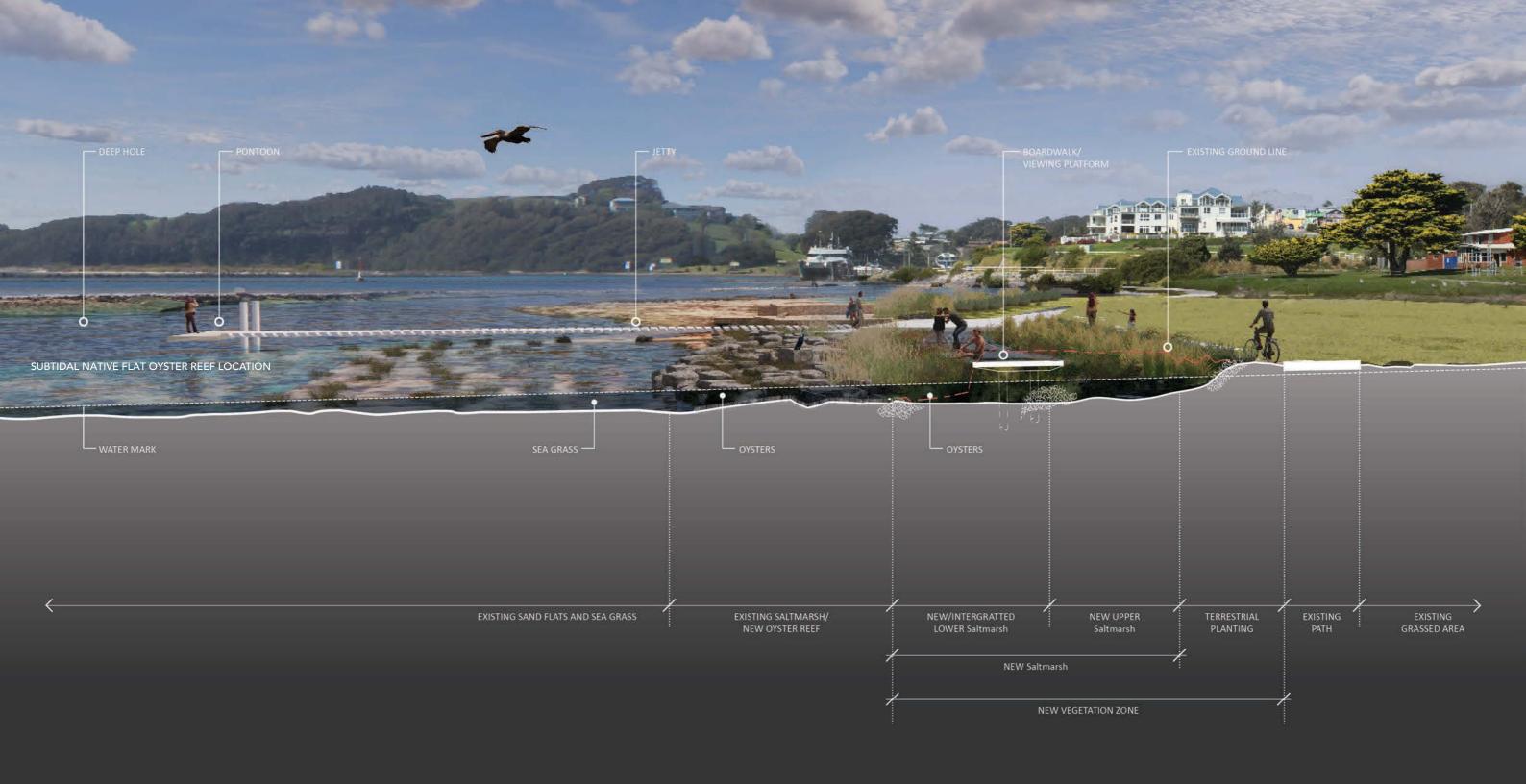








3.4 Section 3 - The Deep Hole & the Point



3.5 Site Plan - existing Not to scale

3.6 Site plan - proposed



A Living Foreshore 3.7 Elements & Areas The concept design for the Wagonga Inlet Foreshore proposes a restoration of the foreshore and adjacent estuary environments between Narooma Swimming Centre and Ken Rose Park. The design proposes several interlinked strategies to re-establish ecosystems within the area, combining living shorelines, bank stabilisation, saltmarsh rehabilitation and oyster reef restoration. The concept design also aims to improve amenity for the community along the foreshore by maintaining the foreshore walkway, introducing a boardwalk and viewing platforms and new planting along the water's edge. Views from the caravan park are maintained and improved access is provided to the sandflats, reducing the need to walk through the saltmarsh. A ramp is provided to facilitate launching of light water craft, SUPs and kayaks, while a new pontoon re-connects visitors and swimmers to the Deep Hole off the point. These improvements further allow the space to be enjoyed while protecting and enhancing the marine ecologies and sea grass beds. marine ecologies and sea grass beds. Improved saltmarsh Finally, the project introduces an oyster reef as part of a broader state initiative to bring back shellfish reef ecosystems as viable coastal ecologies - for the benefit of both people and nature. The location of the reef and access points to the Deep Hole and Sand flats are positioned to facilitate recreation, the overlapping **Terrestrial** of human and natural ecologies and continued access and enjoyment of the Wagonga Inlet Foreshore Formalised access points planting Oyster reef Improved saltmars Boardwalk Formalised access point **Terrestrial** New saltmarsh Stabilised edge planting Stormwater outlets consolidated & restored Indicative Areas 3220 m2 **Existing Grass Area Existing Salt Marsh** 13440 m2 New terrestrial planting 1260 m2

New Saltmarsh

Total new planted area

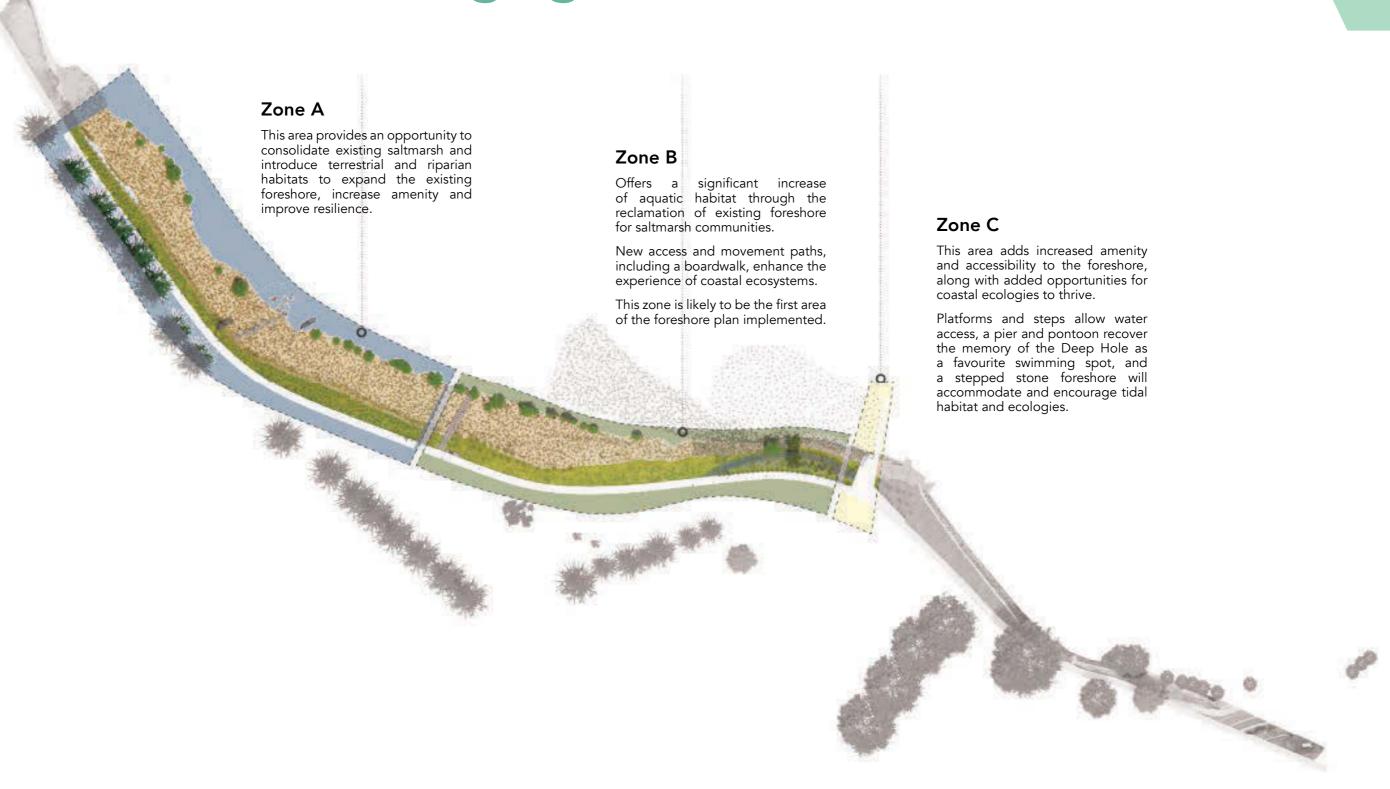
New public domain area

2520 m2

3780 m2

1270 m2

3.8 Potential Staging Zones



3.9 Planting Palette 1

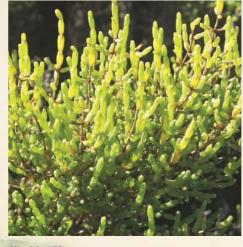
Saltmarsh Species



Knobby club rush Ficinia nodosa



Sea Rush Juncus kraussii



Shrubby Glasswort Tecticornia arbuscula



Seablite Suaeda australis



Sarcocornia quinqueflora



Streaked Arrow-grass Triglochin striata



Sporobolus virginicus

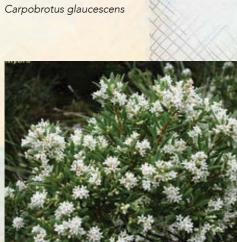




3.10 Planting Palette 2

Terrestrial Species

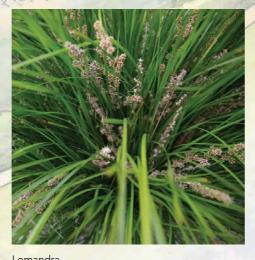




Leucopogon parviflorus



Dianella caerulea



Lomandra sp.



Beach Spinifex Spinifex sericeus



Tetragonia tetragonioides



Coastal Rosemary Westringia fruticosa



Leptospermum laevigatum

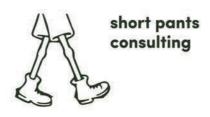
3.11 Preliminary Costings

Item	Rate		Unit	Qty	Amount (ex	GST)
Preliminaries	\$	30,000.00	Item	1		30,000.00
Site Establishment	\$	70,000.00	Item	1	\$	70,000.00
Site excavation and grading	\$	50.00	m3	1500	\$	75,000.00
Disposal (Conditions unknown						
GSW identified)	\$	250.00	m3	1500	\$	375,000.00
Sandstone rip-rap batter (incl						
geofab and void filling)	\$	200.00	m3	420	\$	84,000.00
Formal Access paths	\$	500.00	lm	80		40,000.00
Saltmarsh treatment	\$	130.00	m2	2520		327,600.00
Terrestrial treatment	\$	140.00	m2	1260		176,400.00
Boardwalk	\$	850.00	Im	65		55,250.00
Sandstone Block						
Features/Access	\$	600.00	m2	420	\$	252,000.00
Concrete path/landing	\$	250.00	m2	520	4	130,000.00
Concrete ramp	\$	400.00	m2	30		12,000.00
On ramp Pontoon	\$	2,000.00	m2	60	\$	120,000.00
Concrete pontoon	\$	4,500.00	m2		\$	-
	Total				\$	1,747,250.00
	Lower (-20%)				\$	1,397,800.00
	Upper (+20%)				\$	2,096,700.00

Wagonga Inlet Living Foreshore







NICOLE LARKIN DESIGN ARCHITECTURE





city making + liveability

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