



## Appendix C

Long List of Options and Feasibility  
Assessment

ID	Threat		Management Option	Option Type	Location	Current Risk (2021)	Future Risk (2100)	Source of Option	Reduces risk	Statutory and policy compliance	Engineering feasibility	Adaptive	Outcome of Feasibility Assessment
All_A	All	All	Through the Monitoring & Evaluation program, make the recommendation for the employment of a Coastal / Estuary officer to be employed full time to undertake the actions identified in Council's Coastal Management Programs.	Active intervention	All	NA	NA	Council	Yes	Yes	NA	Yes	Council to pursue this option outside of the CMP actions
CD1_A	CD Threat 1	Coastal development resulting in loss of plant and animal species (habitat disturbance or loss)	Snapper Island Penguin monitoring program	Alert	Snapper Island, Batemans Bay	Medium	High	Environmental Services	Yes	Yes	Yes	Yes	Proceed to viability assessment
CD1_B	CD Threat 1	Coastal development resulting in loss of plant and animal species (habitat disturbance or loss)	Dune vegetation management. Prioritise the northern end of the beach to mitigate erosion risk to the road and private properties.	Active intervention	Broulee	Medium	High	Community Working Groups	Yes	Yes	Yes	Yes	Proceed to viability assessment
CD1_C	CD Threat 1	Coastal development resulting in loss of plant and animal species (habitat disturbance or loss)	Weed management at Potato Point Headland	Active intervention	Potato Point	Medium	High	Council	Yes	Yes	Yes	Yes	Proceed to viability assessment
CD2_A	CD Threat 2	Water pollution from urban stormwater and treated effluent discharge	Investigate source of water quality issues at Surf Beach and develop management plan	Alert	Surf Beach & Broulee	Low	Medium	Community Working Groups Engagement with Mogo LALC	Yes	Yes	Yes	Yes	Proceed to viability assessment
CD2_B	CD Threat 2	Water pollution from urban stormwater and treated effluent discharge	Investigate impact of stormwater outlet / stormwater overflow on water quality at Broulee Head and provide recommendations	Alert	Broulee	Low	Medium	Community Working Groups	Yes	Yes	Yes	Yes	Do not proceed: combined with option CD2_A
CD2_C	CD Threat 2	Water pollution from urban stormwater and treated effluent discharge	Update Council's sediment and erosion control guidelines to ensure alignment with NSW water quality objectives (in relation to impact on coastal receiving waters)	Alert	All	Low	Medium	Community Working Groups	No	Yes	NA	Yes	A review of Council's relevant guidelines indicate that they align with the NSW Warine WQ Objectives.
CD2_D	CD Threat 2	Water pollution from urban stormwater and treated effluent discharge	Identify high risk locations with regards to urban drainage impacts on marine water quality. Consider installation of water quality improvement devices (e.g. GPTS) at key locations to improve receiving water quality.	Active intervention	All	Low	Medium	Community Working Groups, Environmental Services	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CD3_A	CD Threat 3	Pollution of water, beach sand and other habitat areas with litter, solid waste, marine debris and microplastics	Access improvements, weed and rubbish control on public land adjacent to Wharf Road	Active intervention	Wharf Road	Low	Medium	Wharf Road CZMP	Yes	Yes	Yes	Yes	Combined with CH1_M (property acquisition)
CD3_B	CD Threat 3	Pollution of water, beach sand and other habitat areas with litter, solid waste, marine debris and microplastics	Beach watch monitoring program for water quality at recreational beaches - Continued Program	Alert	All	Low	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	NA	Yes	Proceed to Viability Assessment
CD3_C	CD Threat 4	Coastal development encroaching onto natural coastal processes to exacerbate hazard impacts	Support DPI-Fisheries in preparing a Marine Vegetation Strategy to identify priority areas for the protection of healthy mangrove and saltmarsh areas and rehabilitation of degraded areas.	Alert	All	Medium	High	Community Working Groups	Yes	TBC	TBC	Yes	Proceed to Viability Assessment
CDA_A	CH Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Active intervention	Medium	High	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CDA_B	CH Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Long Beach	Medium	Extreme	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CDA_C	Ch Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Surfside / Wharf Road	Extreme	Extreme	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CDA_D	CH Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Batemans Bay: Princes Highway to Corrigans	Extreme	Extreme	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CDA_E	CH Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Corrigans Beach	Medium	High	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CDA_F	CH Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Casesy Beach	High	Extreme	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CDA_G	CH Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Malua Bay	Low	High	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CDA_H	CH Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Tomakin	Medium	High	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CDA_I	CH Threat (All)	Coastal Hazards	Property Planning Controls	Planning for change	Broulee Beach & Broulee Island	Low	High	Stage 2 Coastal Hazard Mapping	-	-	-	-	Do not proceed as individual options. Combined into LGA wide option - should have consistent approach for all development in vulnerable locations.
CH1_A	CH Threat 1	Beach Erosion	Supported dune recovery following erosion events: restricting access to eroded location to minimise further disturbance, sand scraping, revegetation.	Active intervention	South Durras	Low	Low	Community Working Groups	TBC	Yes	Yes	Yes	Proceed to Viability Assessment
CH1_B	CH Threat 1	Beach Erosion	Northcove Road Upgrade: - Raise road as part of option to also provide resilience to inundation from waves and catchment flooding. - Include additional culvert cells to provide capacity for catchment flood flows (raised invert to minimise disturbance on existing tidal flow) - Seawall to tie into road upgrade to protect against coastal erosion	Active intervention	Maloneys Beach	None	Medium	Stage 2 Coastal Hazard Mapping	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_C	CH Threat 1	Beach Erosion	Dune management for coastal hazard protection: nourish, build low dunes and vegetate	Active intervention	Long Beach	Medium	Extreme	Council Area Based Actions	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH1_D	CH Threat 1	Beach Erosion	Low rock wall to protect public infrastructure: Bay Road	Active intervention	Long Beach	Medium	Extreme	Council Area Based Actions	Yes	Yes	TBC	Yes	Proceed to Viability Assessment

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CH1_E	CH Threat 1	Beach Erosion	Staged construction of low rock wall to protect all private properties and council assets.	Active intervention	Long Beach	Medium	Extreme	Council Area Based Actions	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_F	CH Threat 1	Coastal Inundation	Relocate assets	Avoid risk	Cullendulla	TBC	TBC	Batemans Bay Coastline Hazard Management Plan (2001)	TBC	Yes	TBC	Yes	Combined into LGA wide option
CH1_G	CH Threat 1	Beach Erosion	Beach nourishment	Active intervention	Cullendulla	Unknown	Unknown	Batemans Bay Coastline Hazard Management Plan (2001)	TBC	Yes	TBC	Yes	Combined with option CH1_L
CH1_H	CH Threat 1	Beach Erosion	Revetment running parallel to the shoreline at Surfside Beach, combined with beach nourishment	Active intervention	Surfside	Low	High	GHD Stage 2 (March 2020)	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_I	CH Threat 1	Beach Erosion	Offshore low-crest breakwaters in front of Surfside Beach, combined with beach nourishment	Active intervention	Surfside	Low	High	GHD Stage 2 (March 2020)	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_J	CH Threat 1	Beach Erosion	Nourishment with vegetation stabilisation (grasses)	Active intervention	Surfside	Low	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	TBC	Yes	Combined with option CH1_ZA
CH1_K	CH Threat 1 & 4	Beach Erosion and Coastal Inundation	Wharf Road Protection: - Priority works at exposed corner of Wharf Road - Seawall raising in front of Big4, include walkway along top - Opportunistic raising of the remainder of Wharf Road as maintenance works are undertaken or funding becomes available to maintain access during inundation events - trigger based protection of sewer line and remainder of Wharf Road from erosion: triggered by erosion event (this component may form part of CZEAS)	Active intervention	Surfside / Wharf Road	Medium	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_L	CH Threat 1	Beach Erosion	Undertake regular nourishment at Surfside when dredging is undertaken in Batemans Bay / Clyde River. Sand to be placed at locations identified in this CMP.	Active intervention	Surfside / Wharf Road	Medium	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH1_M	CH Threat 1	Beach Erosion	Apply for the NSW government to purchase private properties at Wharf Road to assure current and future generations have public access to the foreshore and beaches. Upon successful implementation undertake site remediation and clean up, including removal of illegal coastal protection structures.	Avoid risk	Wharf Road	Extreme	Extreme	Wharf Road CZMP	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH1_N	CH Threat 1	Beach Erosion	Investigate options for the relocation or improved protection of water and sewer mains at Wharf Road and prioritise against other infrastructure in the shire.	Avoid risk	Wharf Road	Medium	High	Wharf Road CZMP	-	-	-	-	Combined into LGA wide review of water a sewer mains at risk from Coastal Hazards - to better allow for prioritisation across LGA
CH1_O	CH Threat 1	Beach Erosion	Investigate opportunities to track sediment movement in Batemans Bay using LIDAR flown with a drone	Alert	Batemans Bay	See hazards assessment	See hazards assessment	Umwelt Internal Discussion Paper (2018)	No	No	NA	Yes	Unlikely to produce an outcome that will reduce coastal risks
CH1_P	CH Threat 1	Beach Erosion	Upgrade existing coastal protection works at Caseys Beach to reduce likelihood of damage from wave overtopping during storm events. The design should incorporate a walkway in line with the proposal in the REF for Caseys Beach which aligns with the Coastal Headland Walk	Active intervention	Batehaven	High	High	Council	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH1_Q	CH Threat 1	Beach Erosion	Sand nourishment post erosion event - Malua Bay	Active intervention	Malua Bay	Low	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_R	CH Threat 1	Beach Erosion	Private land acquisition - Malua Bay	Avoid risk	Malua Bay	Low	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH1_S	CH Threat 1	Beach Erosion	Sand nourishment post erosion event - Tomakin	Active intervention	Tomakin	Low	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_T	CH Threat 1	Beach Erosion	Trigger based stabilisation of sand spit to rocky outcrop at Tomakin Cove	Active intervention	Tomakin	Low	High	Stage 2 Coastal Hazard Mapping	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_U	CH Threat 1	Beach Erosion	Offshore reef / wave dissipation - Tomakin Cove	Active intervention	Tomakin	Low	High	Stage 2 Coastal Hazard Mapping	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_V	CH Threat 1	Beach Erosion	Private land acquisition - North end of Broulee	Avoid risk	Broulee	Low	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH1_W	CH Threat 1	Beach Erosion	Prioritise vegetation management on dune at northern end of beach	Active intervention	Broulee	Low	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	Yes	Yes	Combined with option CD1_B
CH1_X	CH Threat 1	Beach Erosion	Beach Nourishment, One tree Beach	Active intervention	Tuross Heads	Unknown	Unknown	Tuross / Coila CMP	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_Y	CH Threat 1	Beach Erosion	Sewage pump stations and reticulation infrastructure on frontal dunes/waterfront reserves – coastal protection works or relocation upon renewal	Active intervention	All	See hazards assessment	See hazards assessment	Umwelt Internal Discussion Paper (2018)	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_Z	CH Threat 1	Beach Erosion	Confirm locations of stormwater outlets in the immediate coastal erosion hazard area and identify any risk from coastal hazards to the outlets.	Alert	All	See hazards assessment	See hazards assessment	Umwelt Internal Discussion Paper (2018)	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH1_ZA	CH Threat 1	Beach Erosion	Groyne fields, combined with beach nourishment	Active intervention	Surfside	Extreme	Extreme	GHD Stage 2 (March 2020)	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH10_A	CH Threat 10	Coastal Cliff Instability	Check structural stability and drainage arrangements at properties between Beach Road and the Corrigan's Beach Headland; dwellings north of Bronte Crescent at Caseys Beach Headland and properties close to the cliff at Long Beach.	Alert	Corrigans Beach, Caseys Beach, Long Beach	Unknown	Unknown	Umwelt Internal Discussion Paper (2018)	-	-	-	-	Replaced with updated options below
CH10_B	CH Threat 10	Coastal Cliff Instability	Management of cliff instability at south end of Malua Bay	Active intervention	Malua Bay	Unknown	Unknown	Community Working Groups	-	-	-	-	Replaced with updated options below
CH10_C	CH Threat 10	Coastal Cliff Instability	Conduct periodic inspections of the slopes of the cliffs and bluffs at Corrigans Headland, Sunshine Bay, Caseys Beach Headland and Long Beach Headland to identify evidence of instability, such as loose rock, mantle creep, stormwater incision, tension cracks or leaning or fallen trees.	Alert	Corrigans Headland, Sunshine Bay, Caseys Beach Headland and Long Beach Headland	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH10_D	CH Threat 10	Coastal Cliff Instability	A check of the structural stability of the dwellings and retaining structures between Beach Road and the coastal reserve at the SW end of Corrigan's Beach Headland, those north of Bronte Crescent near the cliff edge at Casey's Beach Headland, those close to the cliff edge at Long Beach Headland and those close to the slope at the rear of the dwellings in Bay Road, Long Beach.	Alert	Corrigans Beach, Caseys Beach, and Long Beach	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	No	Yes	Yes	Yes	Council have advised that this is not required
CH10_E	CH Threat 10	Coastal Cliff Instability	Maintain or improve native vegetation cover on steep slopes on coastal cliffs and bluffs. This may also involve weed management and use of matting/geotextile to protect the surface from erosion as well as control weeds.	Active intervention	Priority to those affected by geotechnical hazards, and accessible.	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH10_F	CH Threat 10	Coastal Cliff Instability	Prepare community and landholder information about the potential impacts of slope instability hazards and why some slopes on the shore of Batemans Bay and elsewhere in the Shire are affected by geotechnical hazards.	Alert	All	Medium	High	Umwelt Internal Discussion Paper (2018)	No	Yes	Yes	Yes	Not considered high priority. Do not proceed to viability assessment

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CH10_G	CH Threat 10	Coastal Cliff Instability	Installation of safety and warning signs: - Install general warning signs along the base of the headlands at Corrigans, Caseys and Long Beaches to warn walkers of the potential hazards. - Fences and warning signs be installed along the top of steep slopes where a risk exists of persons falling over the edge.	Alert	All	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH10_H	CH Threat 10	Coastal Cliff Instability	Rip-rap be placed along the base of slopes where active erosion is occurring or likely to occur with a rise in sea level. Matting should also be placed upslope to support the establishment and maintenance of suitable vegetation to prevent further erosion.	Active intervention	All	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	Yes	Yes	Yes	Yes	Combined with CH10_E
CH10_I	CH Threat 10	Coastal Cliff Instability	Install and maintain a surface dish drain at the top of slopes to divert water away from slopes that are being eroded or have the potential to be so.	Active intervention	All	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH10_J	CH Threat 10	Coastal Cliff Instability	The caves at the cliff base on the western side of Corrigan's Beach Headland and northern side of Casey's Beach Headland be filled with rip-rap and the slope above stabilised with vegetation, or alternatively the caves could be deliberately collapsed in a controlled manner.	Active intervention	Corrigan's Beach, Caseys Beach	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	No	Yes	Yes	Yes	Council have advised that this is not required
CH10_K	CH Threat 10	Coastal Cliff Instability	Coloured shotcrete or similar material to blend in with the environment be applied to the interior of the cave at the base of the cliff at Corrigan's Beach Headland and the undercut upper cliff at Casey's Beach Headland to prevent further weathering and erosion. Alternatively, the cave can be fenced off or meshed, and be regularly monitored (say every 6 months) and any loose rock(s) removed.	Active intervention	Corrigan's Beach, Caseys Beach	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	No	Yes	Yes	Yes	Council have advised that this is not required
CH10_L	CH Threat 10	Coastal Cliff Instability	If necessary, chain wire be placed over the slope immediately behind the dwelling very close to the slope in Bay Road, Long Beach.	Active intervention	Long Beach	Medium	High	ACT Geotechnical Engineers Pty Ltd (2012)	No	Yes	Yes	No	Do not proceed to viability
CH9_A	CH Threat 9	Dune Slope Instability	Prepare frontal dune management plan for dunes seaward of caravan parks and camping grounds, and foreshore reserves to optimise resilience of the dunes as protection for temporary land uses and enhance ecological connectivity.	Alert	Murramarang Nature Resort, Beach reserves at Maloneys Beach, Long Beach, Surfside Corrigan's (include Clyde View Holiday Park) Malua Bay reserve	Medium	High	Umwelt Internal Discussion Paper (2018), ESC Environmental Division	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH4_A	CH Threat 4	Coastal Inundation	Management of un-named ICOLL / Wetland to protect against coastal inundation (stabilise dune so breakout doesn't occur)	Active intervention	South Durras	Unknown	Unknown	Community Working Groups	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH4_B	CH Threat 4	Coastal Inundation	Beach nourishment	Active intervention	Long Beach	Medium	High	Batemans Bay Coastline Hazard Management Plan (2001)	-	-	-	-	Combined with dune management option for erosion hazard protection
CH4_C	CH Threat 4	Coastal Inundation	Beach reshaping and nourishment to raise the dune to prevent overtopping during major storms	Active intervention	Surfside Beach	Extreme	Extreme	Batemans Bay Coastline Hazard Management Plan (2001)	-	-	-	-	Combined into the revetment wall and flood levee options
CH4_D	CH Threat 4	Coastal Inundation	Flood levee to protect against storm surge inundation from creek / estuary (surf side creek and Cullendulla)	Active intervention	Surfside	Extreme	Extreme	Stage 2 Coastal Hazard Mapping	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH4_F	CH Threat 4	Coastal Inundation	Wharf Road Raising	Avoid risk	Wharf Road	Low	High	Stage 2 Coastal Hazard Mapping	Yes	Yes	TBC	Yes	Combined with option CH1_K
CH4_G	CH Threat 4	Coastal Inundation	Flood gates on stormwater outlets	Active intervention	Wharf Road Batemans Bay to Batehaven	Varied	Varied	Stage 2 Coastal Hazard Mapping	TBC	Yes	TBC	No	Proceed to Viability Assessment
CH4_H	CH Threat 4	Coastal Inundation	Upgrading and raising the rock wall along the western section of Wharf Road	Active intervention	Wharf Road	Low	High	Batemans Bay Coastline Hazard Management Plan (2001)	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH4_I	CH Threat 4	Coastal Inundation	Reshaping and additional rock are required to repair the existing training wall	Active intervention	Batemans Bay CBD	Medium	High	Batemans Bay Coastline Hazard Management Plan (2001)	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH4_J	CH Threat 4	Coastal Inundation	Seawall raising	Active intervention	Batemans Bay CBD	Medium	High	Stage 2 Coastal Hazard Mapping	TBC	Yes	TBC	Yes	Combined with CH4_K
CH4_K	CH Threat 4	Coastal Inundation	Seawall raising. See CBD masterplan for proposed extent. Install wave return barriers (e.g. curved capping) on the sea wall protecting the Batemans Bay foreshore, to reduce impact of wash-over in short to medium term.	Active intervention	Batemans Bay to Batehaven	Medium	High	Umwelt Internal Discussion Paper (2018)	TBC	Yes	TBC	TBC	Proceed to Viability Assessment
CH4_L	CH Threat 4	Coastal Inundation	Gradually raise the road level of Beach Road (its entire length), through routine maintenance.	Avoid risk	Batemans Bay to Batehaven	High	Extreme	Stage 2 Coastal Hazard Mapping	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH4_M	CH Threat 4	Coastal Inundation	Adaptation pathway through filling and asset raising	Planning for change	Batemans Bay: Corrigan's area	Extreme	Extreme	Stage 2 Coastal Hazard Mapping	TBC	TBC	TBC	Yes	Proceed to Viability Assessment
CH4_N	CH Threat 4	Coastal Inundation	Construction of a levee around the caravan park area	Active intervention	Hanging Rock	Extreme	Extreme	Batemans Bay Coastline Hazard Management Plan (2001)	Yes	Yes	No	Yes	Do not proceed due to drainage impacts and feasibility issues associated with access across the levee
CH4_O	CH Threat 4	Coastal Inundation	Construction of a levee around all of the Hanging Rock subdivision	Active intervention	Hanging Rock	Extreme	Extreme	Batemans Bay Coastline Hazard Management Plan (2001)	Yes	Yes	No	Yes	Do not proceed due to drainage impacts and feasibility issues associated with access across the levee
CH4_P	CH Threat 4	Coastal Inundation	Levee / flood barrier along foreshore and flood gates at Marina Entrance	Active intervention	Batemans Bay	Extreme	Extreme	Stage 2 Coastal Hazard Mapping	Yes	Yes	No	Yes	Do not process to viability assessment due to engineering constraints
CH4_Q	CH Threat 4	Coastal Inundation	There are a significant number of properties impacted by both coastal and catchment flooding between Hanging Rock Creek and Joes Creek. A flood refuge should be established to allow safe evacuation of homes in the event of flooding. The refuge should be set above PMF Catchment and 100 Year ARI Coastal Inundation flood levels.	Emergency Response	Batemans Bay	Extreme	Extreme	Stage 2 Coastal Hazard Mapping	Yes	Yes	Yes	Yes	To be considered as part of Floodplain Risk Management Program
CH4_R	CH Threat 4	Coastal Inundation	Raising of George Bass Drive	Avoid risk	Batehaven	Extreme	Extreme	Stage 2 Coastal Hazard Mapping	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
CH4_S	CH Threat 4	Coastal Inundation	Emergency Response Plan - Big4 Batemans Bay Beach Resort	Emergency Response	Batemans Bay	Extreme	Extreme	Stage 2 Coastal Hazard Mapping	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH4_T	CH Threat 4	Coastal Inundation	Offshore reef for wave dissipation - Caseys Beach	Active intervention	Batehaven	High	Extreme	Stage 2 Coastal Hazard Mapping	TBC	Yes	TBC	Yes	Proceed to Viability Assessment
CH4_U	CH Threat 4	Coastal Inundation	Emergency Response Plan - Beachcomber Holiday Park	Emergency Response	Potato Point	Medium	High	Site inspections	Yes	Yes	Yes	Yes	Combined with CH4_S
CH4_V	CH Threat 4	Coastal Inundation	Access road raising - Beachcomber Holiday Park	Avoid risk	Potato Point	Medium	High	Site inspections	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH5_A	CH Threat 5	Tidal Inundation	Implement a program to monitor groundwater response to sea level rise to determine scope of the hazard and risk to Surfside and existing governance and planning practices.	Alert	Surfside	Low	Medium	Council Area Based Actions	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH8_A	CH Threat 8	Entrance Management	Management of un-named ICOLL / Wetland to restore natural opening and closing regime	Active intervention	South Durras	Medium	High	Community Working Groups	TBC	Yes	Yes	Yes	Proceed to Viability Assessment

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CH8_B	CH Threat 8	Entrance Management	Review of ICOLL EMP	Active intervention	South Durras, Surfside, Joes Creek, Short Beach, Wimble Beach, Kianga, Little Lake (Narooma), Nangudga Lake	Medium	High	- Council - Community Working Groups	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH8_C	CH Threat 8	Entrance Management	ICOLL Entrance Management Policy - engagement and finalisation	Active intervention	Congo, Potato Point, Lake Brou, Lake Mummaga, Corunna Lake	Medium	High	NPWS	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH9_A	CH Threat 9	Dune Slope Instability	Dune stability management (rabbit impacts)	Active intervention	Rosedale Beach	Unknown	Unknown	Community Working Groups	TBC	Yes	Yes	Yes	Proceed to Viability Assessment
CH9_B	CH Threat 9	Dune Slope Instability	Drainage infrastructure to manage erosion of dune caused by stormwater runoff at the end of Knowlman Road	Active intervention	Rosedale Beach	Unknown	Unknown	Community Working Groups	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CHALL_A	CH Threats (All)	All	Prepare a preliminary coastal risk assessment for national parks along the ESC coast, to understand the scope of coastal process, hazard and risk issues and timeframes of potential impacts	Alert	National Parks	Varied	Varied	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
CH14_A	CH Threats 1 and 4	Beach Erosion and Coastal Inundation	Review design and resilience of ocean boat ramps, in relation to safety and impact of storm conditions	Planning for change	TBC	Varied	Varied	Umwelt Internal Discussion Paper (2018)	no	Yes	Yes	Yes	No boat ramps in hi risk location (for erosion risk)
CH14_B	CH Threats 1 and 4	Beach Erosion and Coastal Inundation	Assess resilience of surf club buildings to storm events, to provide input to emergency response preparedness and a surf club adaptation plan	Planning for change	TBC	Varied	Varied	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
	NA	#N/A	Manage risk to life at unsafe beaches (e.g. Rosedale) - possibly signage?	Active intervention	Rosedale Beach	Unknown	Unknown	Community Working Groups	No	Yes	Yes	Yes	There already is signage. Council is not supportive of additional signage.
CHO_A	Opportunity	#N/A	Opportunities for historical swimming site at Moruya Heads	Alert	Moruya Heads	NA	NA	Community Working Groups	No	TBC	NA	Yes	Proceed to Viability Assessment
CHO_B	Opportunity	#N/A	Consider a ESC coast event/festival to promote tourism opportunities, specifically linked to coastal values Or Integrate with existing festivals such as Narooma Oyster Festival, River of Art and Bay Paddle Challenge	Active intervention	All	NA	NA	Umwelt Internal Discussion Paper (2018)	NA	Yes	NA	Yes	Proceed to Viability Assessment
RA1_A	RA Threat 1	Conflict over resource access and use (e.g. beach users and dog walkers)	Manage user conflicts at Bingle Dreaming Track	Active intervention	Congo	Low	Medium	Community Working Groups	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA2_A	RA Threat 2	Habitat (physical) and wildlife disturbance (e.g. from overuse, overcrowding, foreshore development, commercial and recreational fishing methods, etc)	Dune vegetation protection	Active intervention	South Durras	Medium	High	Community Working Groups	Yes	Yes	Yes	Yes	Combine with CH9_A
RA2_B	RA Threat 2	Habitat (physical) and wildlife disturbance (e.g. from overuse, overcrowding, foreshore development, commercial and recreational fishing methods, etc)	Dune vegetation management - Rosedale Beach	Active intervention	Rosedale Beach	Medium	High	Community Working Groups	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA2_C	RA Threat 2	Habitat (physical) and wildlife disturbance (e.g. from overuse, overcrowding, foreshore development, commercial and recreational fishing methods, etc)	Manage access along spit at Tomakin Beach to reduce impacts on vegetation and spit stability	Active intervention	Tomakin	Medium	High	Community Working Groups, Council	No	Yes	Yes	Yes	Planting, signage, access restriction has been undertaken numerous time and doesn't work as people continue to walk around at high tide and get blocked, sending them over the top. The management of the spit will be assessed through a separate Management plan for Tomaga Spit (separate project).
RA2_D	RA Threat 2	Habitat (physical) and wildlife disturbance (e.g. from overuse, overcrowding, foreshore development, commercial and recreational fishing methods, etc)	Consolidate pedestrian access across dunes	Active intervention	Broulee	Medium	High	Community Working Groups	Yes	Yes	Yes	Yes	Combine with RA2_B
RA2_E	RA Threat 2	Habitat (physical) and wildlife disturbance (e.g. from overuse, overcrowding, foreshore development, commercial and recreational fishing methods, etc)	Shorebird management across Eurobodalla: Using our shorebird layer, identify shorebird nesting sites and target these sites for pest control.	Active intervention	All	Medium	High	Environmental Services	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA2_F	RA Threat 2	Habitat (physical) and wildlife disturbance (e.g. from overuse, overcrowding, foreshore development, commercial and recreational fishing methods, etc)	Provide direction, funding and support for community involvement in on ground works along the ESC coast – through Coastcare/Landcare projects.	Active intervention	All	Medium	High	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Combine with CH9_A
RA2_G	RA Threat 2	Habitat (physical) and wildlife disturbance (e.g. from overuse, overcrowding, foreshore development, commercial and recreational fishing methods, etc)	Conduct follow up work on weeds of National Significance in coastal reserves – e.g. from Corrigans Beach to Mosquito Bay (2014-15) and then in coastal reserves further south.	Active intervention	All	Medium	High	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA3_A	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Develop a 'round the bay' coastal walk and cycleway for Batemans Bay	Active intervention	Batemans Bay Foreshore	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Unknown	Yes	Proceed to Viability Assessment
RA3_B	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Bridge crossing at Cullendulla Creek to link the area up with Murrumarrang walk and Coastal Headland walk	Active intervention	Cullendulla	Medium	Medium	Council - Tourism / planning	Yes	Yes	Unknown	Yes	Proceed to Viability Assessment
RA3_C	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Monitor usage of marina berths and swing moorings in Batemans Bay, including courtesy moorings Monitor changes in the condition of sea grass beds at or around swing moorings and in the Batemans Bay marina	Alert	Batemans Bay	Medium	Medium	Umwelt Internal Discussion Paper (2018)	No	Yes	NA	Yes	Unclear what threat this option was looking to address. Without further detail provided in Umwelt (2018) unable to progress to Viability Stage
RA3_D	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Subject to outcomes of DI-Land and Water Minor Ports Strategy development, promote Batemans Bay as a suitable area for visiting yachts.	Active intervention	Batemans Bay	Medium	Medium	Umwelt Internal Discussion Paper (2018)	No	Yes	NA	Yes	Unclear what threat this option was looking to address. Without further detail provided in Umwelt (2018) unable to progress to Viability Stage
RA3_E	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Continue maintenance and upgrade of the Batemans Bay public wharf	Active intervention	Batemans Bay	Medium	Medium	Umwelt Internal Discussion Paper (2018)	No	Yes	Yes	Yes	Unclear what threat this option was looking to address. Without further detail provided in Umwelt (2018) unable to progress to Viability Stage
RA3_F	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Improve facilities for tourism at Corrigans Beach, in line with EDELS 2011 and Royal Haskoning 2015. This includes: •Improved & all-levels inclusive disabled access •Facilities for kayaks and SUPs •Courtesy moorings and short term berths in Batemans Bay •Improved trailer parking •Sewage pump out facility •Deep water marina berths for visiting yachts	Active intervention	Corrigans	Medium	Medium	Umwelt Internal Discussion Paper (2018), ESC Environmental Service	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA3_G	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Upgrade beach reserve infrastructure at Malua Bay, including toilet block, picnic shelters	Active intervention	Malua Bay	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment

ID	Threat	Management Option	Option Type	Location	Current Risk (2021)	Future Risk (2100)	Source of Option	Reduces risk	Statutory and policy compliance	Engineering feasibility	Adaptive	Outcome of Feasibility Assessment	
RA3_H	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Provide a walking path from Malua Bay to McKenzies Beach.	Active intervention	Malua Bay to McKenzies Beach	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	TBC	Yes	This option is covered by BMP's Coastal walk plan
RA3_I	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Provide basic public toilet facilities at McKenzies Beach.	Active intervention	McKenzies Beach	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
RA3_J	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Look at parking options at McKenzies Beach	Alert	McKenzies Beach	Medium	Medium	Community Working Groups / Umwelt (2018)	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
RA3_K	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Review and upgrade access paths and public toilets, showers etc. at One Tree Beach (Tuross), to enhance safety and amenity.	Active intervention	Tuross Lake	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	TBC	Yes	Proceed to Viability Assessment
RA3_L	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Improving access and providing protection of midden sites along Mummaga Headland by formalising access on the south/eastern side of headland, and revegetating the sections of exposed midden and cliff face that are being used as informal tracks	Active intervention	Dalmeny	Medium	Medium	Site inspections, Wagonga LALC	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA3_M	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Coastal walk opportunity: Mystery Bay to Narooma	Active intervention	Mystery Bay	Medium	Medium	Community Working Groups	TBC	TBC	TBC	Yes	There is no desire by Council to formalise this coastal walk (there is already an informal walk). Area has a number of Aboriginal culturally significant sites.
RA3_N	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Investigate, prioritise and improve beach access in key beach locations (particularly ensuring disability inclusive access to beaches). Aligns with Draft Marine Park Management Plan (action 5.4c)	Active intervention	All	Medium	Medium	Council	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA3_O	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Continue to promote existing coastal walks such as coastal walks in Murrararang National Park, Broulee Island, Bingle Dreaming, Mystery Bay to 1080 Beach, Mangrove walk at Cullendulla Creek, Durras discovery and Banksia Walk at Burrewarra Point, Mill Bay Board walk at Narooma.	Alert	All	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA3_P	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Provision of lifeguard services at most popular beaches and work with SLSA for weekend coverage of other beaches, across the peak summer visitor season	Active intervention	All	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Not suitable for inclusion in the CMP
RA3_Q	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Upgrade parking, fencing, lookouts and interpretation in reserves on coastal headlands around Batemans Bay.	Active intervention	All	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA3_R	RA Threat 3	Poorly located, poorly maintained and/or inappropriate access and supporting facilities	Prepare a beach reserve asset audit for the whole coast, to identify the adequacy, suitability and safety of toilet blocks, picnic tables/shade shelters, and coastal access stairs and paths	Alert	All beach reserves	Medium	Medium	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Already completed by Council
RA6_A	RA Threat 6	Active recreational use (recreational boating, motorised watercraft, camping etc) - recreational activities needing associated infrastructure	Monitor usage and impacts of high usage on bike tracks between Broulee Head and Moruya Heads	Alert	Bengello Beach	Medium	High	Community Working Groups	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
RA6_B	RA Threat 6	Active recreational use (recreational boating, motorised watercraft, camping etc) - recreational activities needing associated infrastructure	Implement Mystery Bay Campground Management Plan to mitigate impacts of overcrowding and inappropriate use / access (e.g. loss of vegetation and habitat, litter, disturbance of cultural sites)	Active intervention	Mystery Bay	Medium	High	Community Working Groups	Yes	Yes	Yes	Yes	Management Plan already in place and implemented
EGC2_A	EGC Threat 2	Insufficient community and visitor awareness of the values and threats to the coastal environment, and lack of engagement with managing this environment	Increase community awareness of importance of dunes for habitat and erosion protection	Alert	All	Medium	High	Community Working Groups	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC2_B	EGC Threat 2	Insufficient community and visitor awareness of the values and threats to the coastal environment, and lack of engagement with managing this environment	Community awareness and consultation program on the value of coastal reserves, linked to update of plans of management for reserves to align with the CMP. Target encroachment of private uses onto public reserves and clearing of native vegetation on reserves, adjacent to residences – to maintain views or for other private benefit.	Alert	All	Medium	High	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Not necessary or realistic actions – Council don't have the resources to dedicate to this & don't see it as a priority. Community are pretty well informed on coastal processes.
EGC2_C	EGC Threat 2	Insufficient community and visitor awareness of the values and threats to the coastal environment, and lack of engagement with managing this environment	Community awareness and education programs about coastal processes, coastal hazards and coastal change, including climate change and sea level rise	Planning for change	All	Medium	High	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Not necessary or realistic actions – Council don't have the resources to dedicate to this & don't see it as a priority. Community are pretty well informed on coastal processes.
EGC3_A	EGC Threat 3	Insufficient or inappropriate governance and management of the coastal environment	Monitoring of coastal environment for reporting in council's state of the environment reports and/or annual reports	Alert	All	Medium	High	Umwelt Internal Discussion Paper (2018)	Yes	No	Yes	Yes	Council doesn't do SoE reporting
EGC3_B	EGC Threat 3	Insufficient or inappropriate governance and management of the coastal environment	Work with relevant State Agencies to strengthen shared and consistent management of coastal land.	Planning for change	TBC	Medium	High	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC3_C	EGC Threat 3	Insufficient or inappropriate governance and management of the coastal environment	Community satisfaction surveys	Alert	All	Medium	High	Umwelt Internal Discussion Paper (2018)	No	Yes	Yes	Yes	Already in place
EGC3_D	EGC Threat 3	Insufficient or inappropriate governance and management of the coastal environment	Use this information to update plans of management for the reserved lands and highlight assets (natural or built) within the reserves that need changed management to mitigate coastal risks.	Planning for change	All	Medium	High	Umwelt Internal Discussion Paper (2018) Stage 2 Hazards Study	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC3_E	EGC Threat 3	Insufficient or inappropriate governance and management of the coastal environment	Update plans of management for coastal national parks, including review of current arrangements for access, interactions between national parks and adjoining lands for recreation and tourism (include maintenance of access infrastructure), weed species; address or foreshadow when necessary any coastal hazard risks.	Planning for change	National Parks	Medium	High	Umwelt Internal Discussion Paper (2018)	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC3_F	EGC Threat 3	Insufficient or inappropriate governance and management of the coastal environment	Maintenance of State Agency owned coastal assets to engineering and safety standards	Active intervention	TBC	Medium	High	Taskforce meeting	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_A	EGC Threat 4	Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Opportunities for cultural burning	Active intervention	All	High	Extreme	Council	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_B	EGC Threat 4	Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Development and implementation of Aboriginal cultural resource use agreements, Sea Country plans or other planning tools i	Active intervention	All	High	Extreme	Aboriginal engagement	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_C	EGC Threat 4	Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Support Aboriginal cultural tourism opportunities	Alert	All	High	Extreme	Aboriginal engagement	Yes	Yes	Yes	Yes	Proceed to Viability Assessment

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EGC4_D	EGC Threat 4 Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Aboriginal coastal management - youth education opportunities	Alert	All	High	Extreme	Aboriginal engagement	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_E	EGC Threat 4 Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Support local Aboriginal Communities manage cultural heritage from coastal hazards and sea level rise and other coastal threats	Active intervention	All	High	Extreme	DPE, NPWS & Aboriginal engagement	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_F	EGC Threat 4 Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Improve access to Country	Active intervention	All	High	Extreme	DPE	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_G	EGC Threat 4 Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Identify and use Aboriginal place names	Active intervention	All	High	Extreme	DPE	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_H	EGC Threat 4 Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Review, update and implement PoM for Aboriginal Place at Barlings Beach	Active intervention	Barlings Beach	High	Extreme	Traditional Owners	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_I	EGC Threat 4 Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Collaborate with the Local Aboriginal Community to prepare an Aboriginal Seasonal Calendar to showcase traditional land management, food & medicine practices and deeper understanding of the land & climate.	Active intervention	All	High	Extreme	Traditional Owners	Yes	Yes	Yes	Yes	Proceed to Viability Assessment
EGC4_J	EGC Threat 4 Insufficient involvement of Traditional Owners in the management of cultural heritage and use within the coastal environment	Manage access issues and erosion at targeted sites of significant value to Aboriginal Community as identified by the LALC's	Active intervention	Tilba Beach, Nangudga, Broulee	High	Extreme	Traditional Owners	Yes	Yes	Yes	Yes	Proceed to Viability Assessment