



4.4 Local Area Plan: Northern LGA

Overview	
Area Coverage	The LAP for the Northern zone of the Shoalhaven LGA covers the area extending from Shoalhaven Heads in the north, to the Beecroft Peninsula in the south. The LAP covers the following beaches and their adjoining headlands: ■ Shoalhaven Heads ■ Culburra Beach ■ Warrain Beach ■ Currarong Beach The beaches are generally long, highly exposed east facing beaches, with flat slopes and well developed dune systems. These beaches are punctuated by major headland features including Crookhaven Heads and Penguin Head.
Key Environmental Features	The coastline in the LAP also includes two major estuaries – including the Shoalhaven River, which has a permanent entrance at Crookhaven Heads and an intermittent entrance at Shoalhaven Heads, and Wollumboola Lake which has an intermittently open entrance south of Warrain Beach. Much of the coastline in this area is comprised of undeveloped coastal reserve, including NPWS managed coastline of Seven Mile Beach National Park, Comerong Island Nature Reserve, and Jervis Bay National Park. Jervis Bay Marine Park extends into the coastal waters off Currarong Beach.
Local Population Centres	■ Shoalhaven Heads ■ Culburra Beach ■ Currarong
Mapping References	■ An overview of this area is provided in Appendix A ■ Mapping provided in Figure 4-11 and Figure 4-12 indicates the location of those actions that apply to a singular, discrete location. ■ Actions that are generic in nature or apply to an area more broadly have not been mapped. ■ Actions that related to repair, upgrade or closure of beach access tracks are mapped in Appendix E. The works identified for the beach access tracks represent an assessment based on present day conditions. The works and beach access tracks requiring works may be subject to change and Council will continue to reassess track condition into the future to scope, plan and prioritise the required works.
LAP	■ There are 11 Actions in the Northern LGA LAP ■ These actions are detailed in Table 4-5.



Quick Reference Image Gallery



Figure 4-7 Shoalhaven Heads in 2019. Image source: SLSC



Figure 4-8 Culburra Beach in 2023. Image source: Council



Figure 4-9 Warrain Beach in 2023. Image source: Council



Figure 4-10 Currarong Beach in 2021



Table 4-5 Northern LGA LAP

ID	Location	Action Name	Action Description	Risk Being Addressed	Lead Agency	Support Partners	Priority	Timing	Performance Measures
SH.01A	Shoalhaven Heads	SLSC Coastal Protection Works - Stage 1: Condition assessment and maintenance recommendations report	Undertake a formal condition inspection of the rock revetment in front of the Shoalhaven Heads Surf Club if and when it's exposed during a major storm. The revetment was designed and constructed following the 1970s storms, and assets such as rock armoured revetments require periodic inspection and assessment of maintenance requirements. The outcome of this assessment should be a clear understanding of the nature and extent of maintenance works required to maintain the intended level of protection and function over future timeframes.	CHR.4 CHR.5	SCC	N/A	Medium (9)	Opportunistic, within 10 Years	Condition inspection completed, and requirements for maintenance clearly defined.
SH.01B	Shoalhaven Heads	SLSC Coastal Protection Works - Stage 2: Maintenance Works	Based on the information provided in the revetment condition assessment (Action SH.01), undertake the required maintenance and make-safe works for the rock revetment - in order to provide ongoing protection to the SLSC building and car park.	CHR.4 CHR.5	SCC	N/A	Low (7)	Triggered by Action SH.01A	Maintenance works completed.
SH.02	Shoalhaven Heads	Opportunistic nourishment of Shoalhaven Heads beach	Develop a plan for reuse of excavated 'dry notch' (flood notch) sand, and other suitable sand resulting from any potential entrance management or dredging works at the river entrance for the low dune crest locations along Shoalhaven Heads beach - to increase the volume of the beach and dunes, and provide interim protection from large southerly waves during storms.	CHR.4 CHR.5 SER.5.1 SER.5.5	SCC	N/A	Low (7)	Opportunistic, within 8-10 Years	Program developed and being implemented, as needed. Works considered to be of tangible benefit in terms of improving coastal hazard resilience, and public safety, and recreational access.
SH.03	Shoalhaven Heads	Monitor performance of the SLSC dune restoration works	Monitor the performance of the dune restoration works at the Shoalhaven Heads SLSC. Monitor for signs of any potential recurrence of dune blowouts and undertake dune restoration maintenance works as necessary.	SER.5.1 SER.5.2 SER.5.3 SER.5.4 SER.5.5 SER.5.6 SER.5.7	SCC	N/A	Low (7)	Year 1 and ongoing	Monitoring performed and recorded within Council system.
CH.01	Crookhaven Heads	Install drainage along the downslope side of roads and tracks to minimise overland flow erosion near the Community Nursery	Install drainage along the downslope side of roads and tracks (e.g. kerb and guttering) to minimise overland flow erosion near the Community Nursery, in order to reduce prolonged or excessive saturation of the soil erosion due to uncontrolled runoff. This would reduce the risk of coastal cliff and slope instability.	CHR.10 CHR.12	SCC	N/A	Medium (14)	Within 4-7 years	Works completed.
CU.01	Culburra Beach	Passive relocation of northern access loop road when damaged by storm events - to a more landwards location within existing parcel	This action includes undertaking an investigation into the potential relocation of northern access loop road and car park when/if the structure is damaged by storm future storm events. Relocation should be to a more landwards location within existing lot/parcel. Planning analysis indicates that there is sufficient room to accommodate this.	CHR.10 CHR.12	SCC	N/A	Low (7)	Opportunistic, or within 8-10 Years	Investigation undertaken, and adaptation plan ready to implement as needed.
CU.02	Culburra Beach	Maintain, repair, upgrade, and rationalise beach access tracks	Maintain, repair, upgrade, and rationalise beach access tracks at this location, as detailed in the findings of the Shoalhaven Beaches Asset Management Strategy (Advisian, 2021), and based on contemporary monitoring and inspections by Council (2023).	CHR.11 SER.6.3	SCC	N/A	Low (7)	Year 1 and ongoing	Assets maintain appropriate engineering and safety standards. Works reflect best practice dune management.



ID	Location	Action Name	Action Description	Risk Being Addressed	Lead Agency	Support Partners	Priority	Timing	Performance Measures
CR.01	Currarong Beach	Shoreline erosion protection structure at Beecroft Parade - Undertake investigations, detailed design, and approvals	This action includes continuing to progress the design and construction of a shoreline protection structure (such as a rock armoured seawall) that covers a section of public foreshore along Beecroft Parade, between Dolphin Reserve and the boat ramp accessway. A concept design of this structure was prepared as part of the Currarong Coastal Erosion Protection Technical Design Report (RHDHV, 2017), which provided the planform layout and cross-sectional concept designs for the potential structure. This project would be executed in three stages. Stage 1 of this Action would therefore involve the following steps: • Geotechnical investigation: Investigation of the subsurface conditions to the east of Currarong Creek (at, and behind the proposed structure footprint) to determine if the subsurface profile comprises sandy soils or less erodible rocky bedrock strata. This would inform the development of the concept design of the structure. If this investigation provided new information that indicated that the structure is not required, then there would be no need to progress any further. • Finalisation of the concept design based on outcomes of the geotechnical investigation • Community and stakeholder engagement • Detailed design of the structure Once lead agencies and supporting partners agree on the preferred management options, and designs are completed (if required), then this action will be updated to include the implementation of preferred options. This will require the CMP to be amended and re-submitted for certification.	CHR.19 CHR.20 CHR.21 CHR.22 CHR.23 CHR.24	SCC	DPE(E&H)	High (27)	Within 1-3 years	Investigations completed, and clear direction for remaining stages established.
CR.02	Currarong Beach	Investigate and finalise options to manage long term coastal hazard risk at Currarong Beach	This action involves the investigation of a series of potential management option to address the long term coastal hazard risk at Currarong Beach. It would be undertaken in a staged progression in order to ensure that the potential solution has been investigated in detail, is proven to be effective, and would have minimal adverse environmental or social impacts. Part 1: Coastal Processes Investigation: A desktop investigation is required to identify and quantify the local sediment transport sources, sinks, and pathways. This investigation should build on the work undertaken by Royal HaskoningDHV (2017), and enhance this work through the application of numerical modelling methods comprising wave, hydrodynamic, and morphological modelling. Crucial to this task will be to determine the magnitude and direction of alongshore transport, and to develop a quantified conceptual morphological model of the Currarong Beach area - in order to determine the most effective long term mitigation option. This study should also include an investigation into feasible sand sources to supply any potential long term beach nourishment program for Currarong Beach. Part 2: Assessment of Management Options: The outcomes of the study would then inform decision making around management actions. Specifically, this part of the study should assess the following potential management options: A) Beach Nourishment - including through the sources of sand identified in Part 1. B) A potential groyne structure(s), as per the preliminary investigation of RoyalHaskoningDHV (2017). This should also include an assessment of the potential optimised groyne configuration (in terms of the number of groynes, spacing, location, length, orientation - with and without associated nourishment). C) Potential negative impacts (i.e. downdrift, or on the local estuary morphodynamics). This assessment should specifically incorporate the use of morphological modelling to assess the relative performance and potential impacts (i.e. downdrift, or on local estuary morphodynamics) of the options. Once lead agencies and supporting partners agree on the preferred management options this action will be updated to include the implementation of preferred options. This will require the CMP to be amended and re-submitted for certification.	CHR.19 CHR.20 CHR.21	SCC	DPI-Fisheries Crown Lands DPE(E&H)	High (27)	Within 1-3 years	Investigations completed, and clear direction for remaining stages established.



ID	Location	Action Name	Action Description	Risk Being Addressed	Lead Agency	Support Partners	Priority	Timing	Performance Measures
CR.03	Currarong Beach	Wastewater Management Plan	Develop a wastewater overflow management strategy for Currarong Creek, in order to determine the optimised operational pathways for dealing with inundation under future sea level rise scenarios. Options include relocation of the structures, raising the structures, and/or flood proofing.	SER.8.3	SCC	N/A	Medium (14)	Within 4-7 years	Strategy completed, providing recommendations and pathways for management of the assets.
CR.04	Currarong Beach	Maintain, repair, upgrade, and rationalise beach access tracks	Maintain, repair, upgrade, and rationalise beach access tracks at this location, as detailed in the findings of the Shoalhaven Beaches Asset Management Strategy (Advisian, 2021), and based on contemporary monitoring and inspections by Council (2023).	CHR.23 SER.8.1	SCC	N/A	Low (7)	Year 1 and ongoing	Assets maintain appropriate engineering and safety standards. Works reflect best practice dune management.



Figure 4-11 LAP Action locations for Shoalhaven Heads

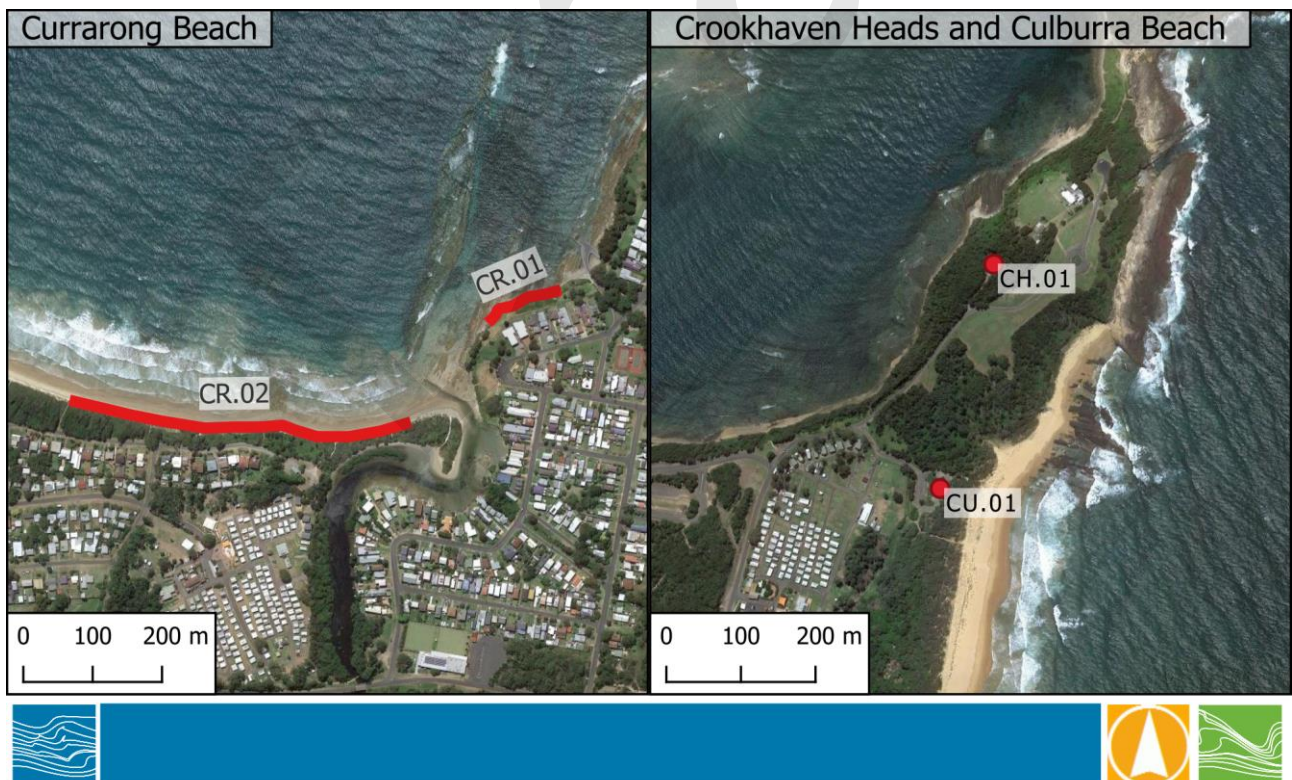


Figure 4-12 LAP Action locations for Currarong (left) and Culburra Beach / Crookhaven (right)