Locality Summaries

LOCALITY: Bongaree

Bongaree is located towards the southern end of Bribie Island (Figure 1). Bongaree Beach is a narrow low energy beach that is approximately 3 km long. It is subject to wave and tidally driven sediment transport that moves slowly north along the beach. This section of the shoreline currently has a seawall and groynes to protect it.

The coastal zone between the Bongaree town centre and the bridge includes a continuous road, foreshore reserve, fishing jetty, boat ramp, visitor facilities and canal estate.

Other highly valued places include Buckley's Hole Conservation Park to the south of the town centre. Important infrastructure includes the Bribie Island Bridge, Bribie Island Retirement Village, RSL Care Bongaree, Bribie Island High School, and future Bribie Island Satellite Hospital.

The Bongaree community already observes and experiences some impacts from coastal hazards. Tidal inundation is the greatest threat and could affect evacuation routes. Low-lying areas are also vulnerable to storm tide and facing increasing risk from these hazards into the future.

The present day adaptation response for Bongaree is to actively manage coastal hazard and begin preparations for additional hazard mitigation in the future. If a resilient built form cannot be achieved by 2050, planning would need to commence for potential transition for limited areas of Bongaree.

The adaptation pathway includes a focus on maintaining existing shoreline protection works, trialling a living shoreline design, and reviewing the adaptation pathway over time and considering future alternatives (Figure 1). Region-wide actions also apply where relevant to this locality.
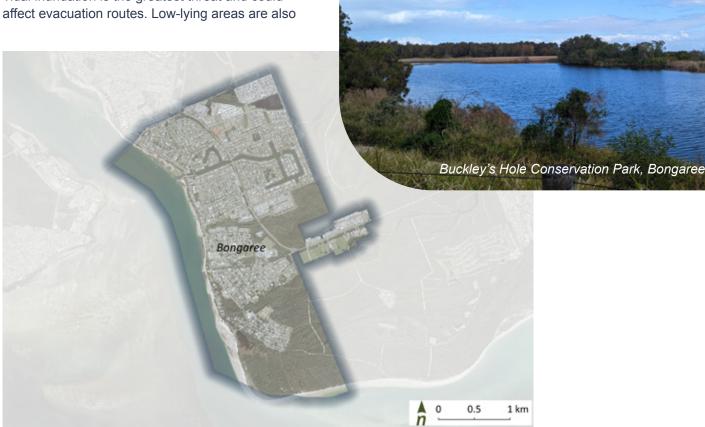

Buckley's Hole Conservation Park, Bongaree

Figure 1. Bongaree

Table 1. Bongaree adaptation pathway

	Present day	0.3m 2050	0.8m 2100
		Sea level rise projections	
Adaptation response	**Actively manage** 🪴	**Actively manage** 🪴	**Transition and change** 🛒
Adaptation Actions			
Region-wide initiatives to enhance custodianship	As per region-wide actions, including:		
Monitoring	Establish photo-point (CoastSnap) monitoring system.		
Knowledge sharing	Promote the benefits of nature based coastal management and resilient homes.		
Planning	As per region-wide actions as applicable identified in Table 35.		
Maintaining and improving infrastructure	As per region-wide actions, including:		
Increasing infrastructure resilience	Promote resilient homes within the community and building sector (link in with action 1.2).		
Relocate infrastructure		Prepare Asset Management Plan to consider extent / use of the foreshore land and assets in the coastal hazard area, and alternatives for the future.	Implement relocation of assets in accordance with the Asset Management Plan (if feasible).
Environmental protection, maintenance and enhancement	As per region-wide actions, including:		
Environmental enhancement	Coastal management plans for the protection of highly valued environmental areas and significant habitat south of Bongaree.		
Coastal engineering and nature-based	As per region-wide actions, including:		
Living shorelines	Living shoreline pilot site - develop concept design and monitoring plan for living shoreline in front of South Esplanade (link to action 1.3.3). Implement living shoreline design. Review the effectiveness of living shoreline design.	If successful, continue to implement living shoreline design and expand as necessary. Review of effectiveness of living shoreline design. If living shoreline does not achieve expected level of service, consider hybrid or other solutions. Review pathway options and establish triggers for change of pathway.	Review of effectiveness of living shoreline design. Review pathway options.
Coastal engineering	As per region-wide actions, including:		
Coastal hazard protection works	Shoreline Erosion Management Plan. Maintain existing shoreline protection works. Implement seawall prioritisation works at Welsby Parade.	If triggered, undertake concept planning for additional structural protection or upgrades (if applicable).	If triggered, implement additional structural protection or upgrades (if applicable)