



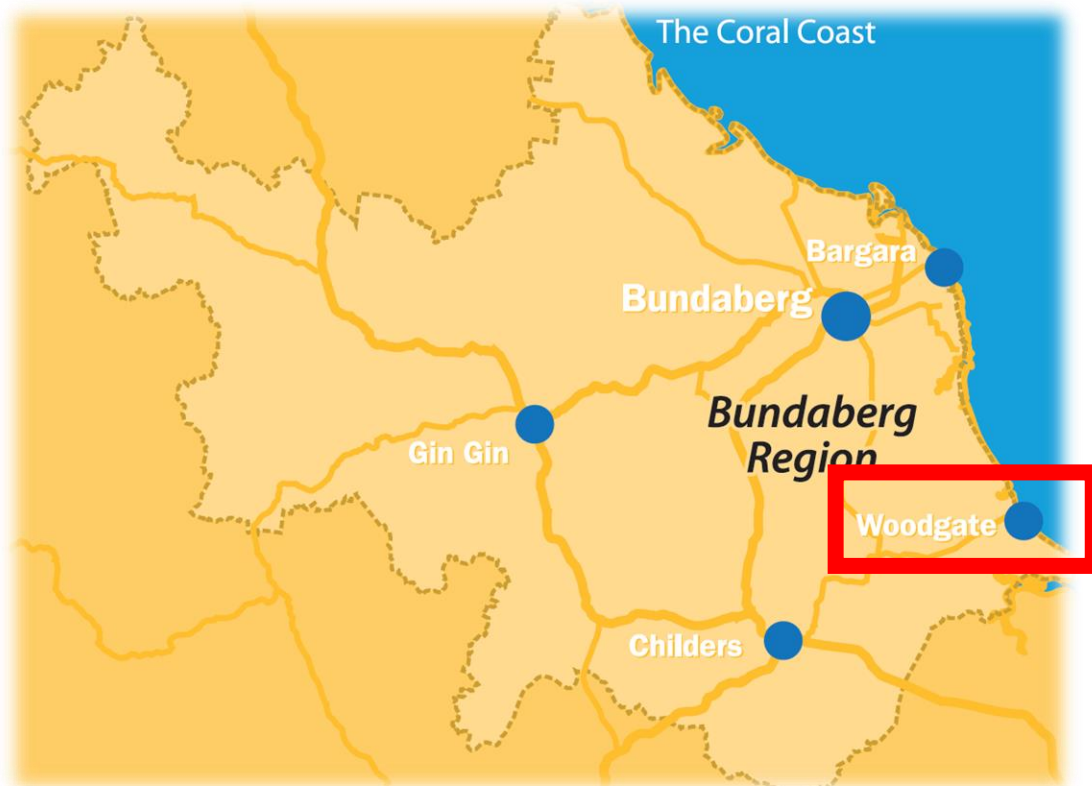
Woodgate Beach Shoreline Erosion Project

Dwayne Honor – Branch Manager Engineering Services – 6th August 2024

Agenda

- Background - Coastal Hazard Adaptation Strategy & Shoreline Erosion Management Plan
- Buried Seawall & Nourishment - Engineering & Approvals
- Erosion Review
- Construction Update
- Questions

Where is Woodgate Beach?



Bundaberg LGA

Geographical Area:

6,500 km²

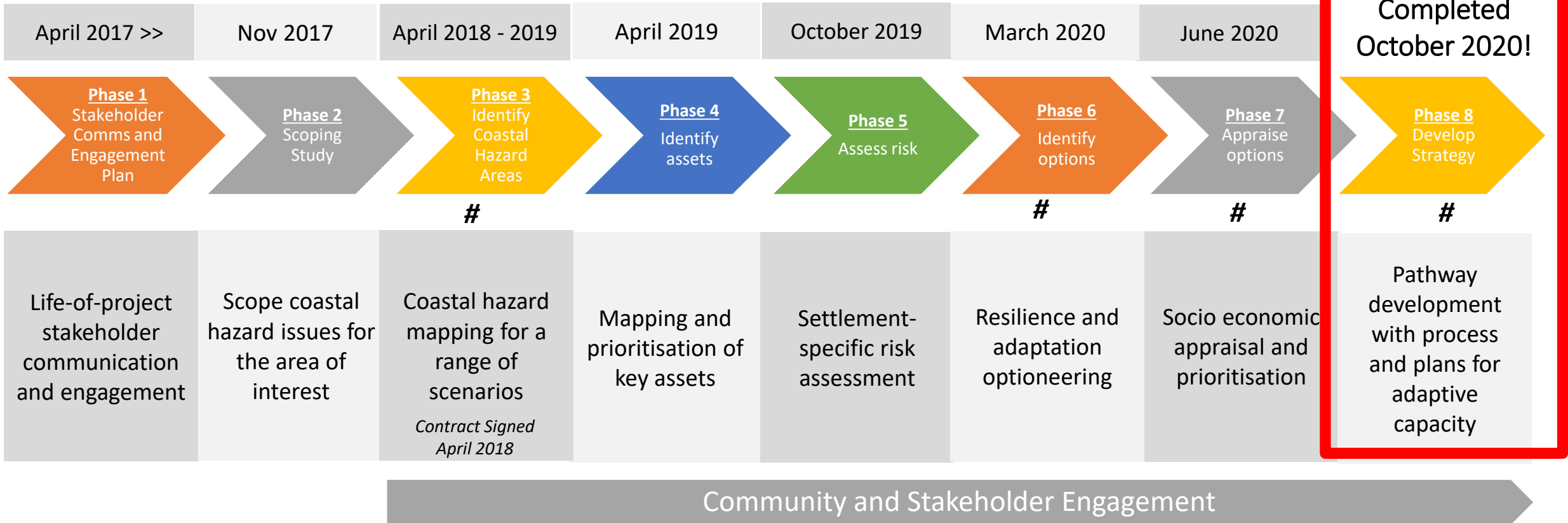
Coastline:

~115km

Coastal Hazard Adaptation Strategy



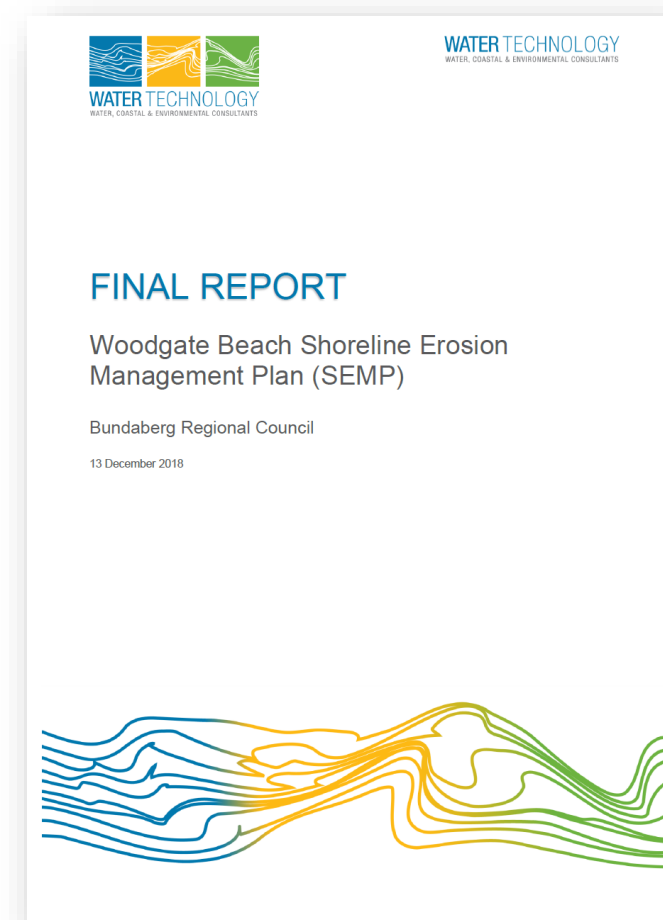
Woodgate SEMP



Shoreline Erosion Management Plan

- Non-statutory planning document
- Sets out an agreed framework and management strategy for responding to existing erosion problems and possible future erosion threats

So why did Council do one?





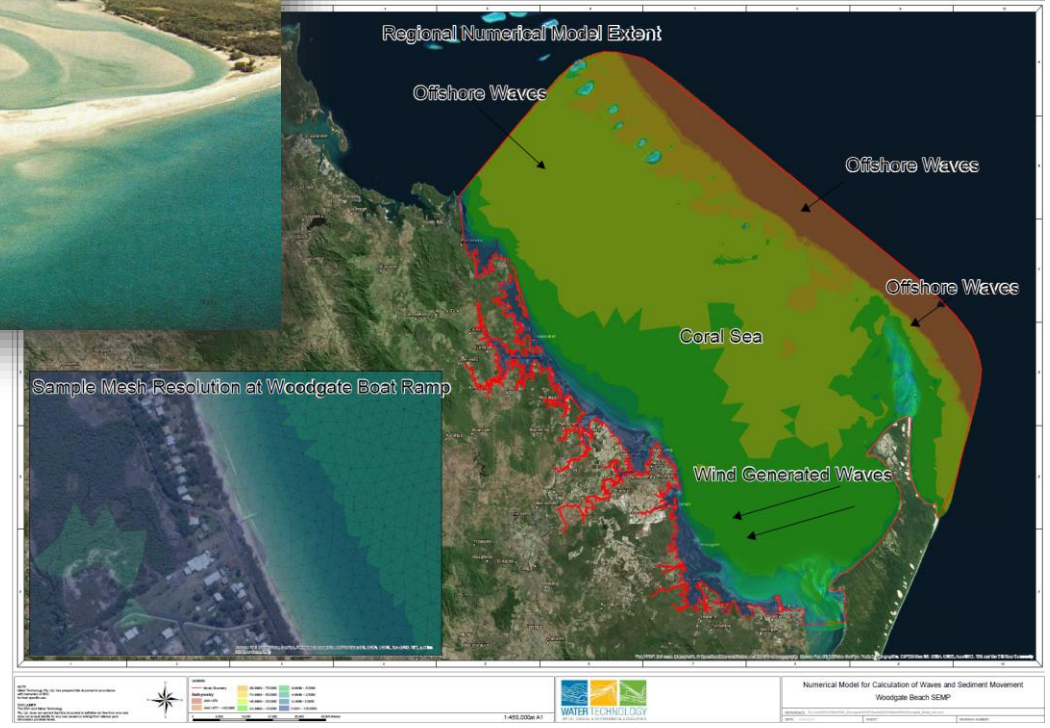
(a) Late 1980's



(b) February 2018

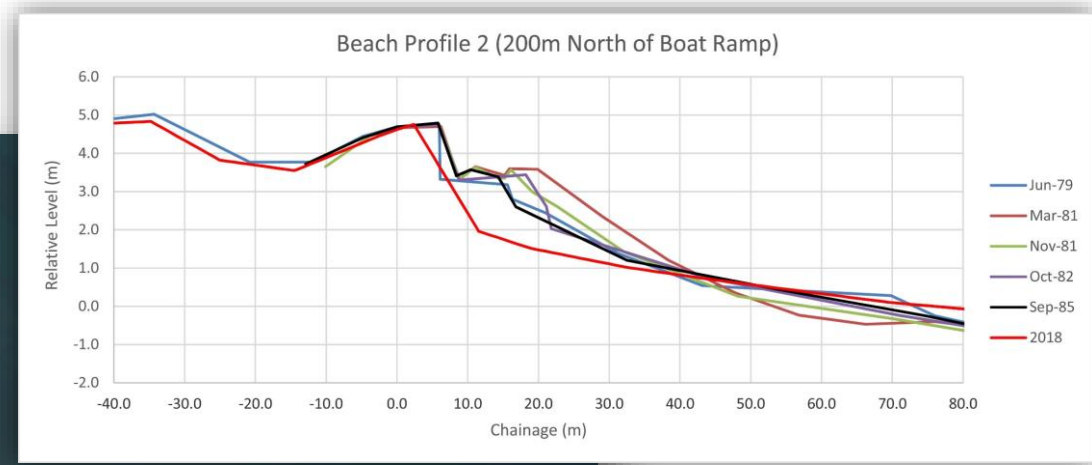


SEMP - Understand the natural processes...

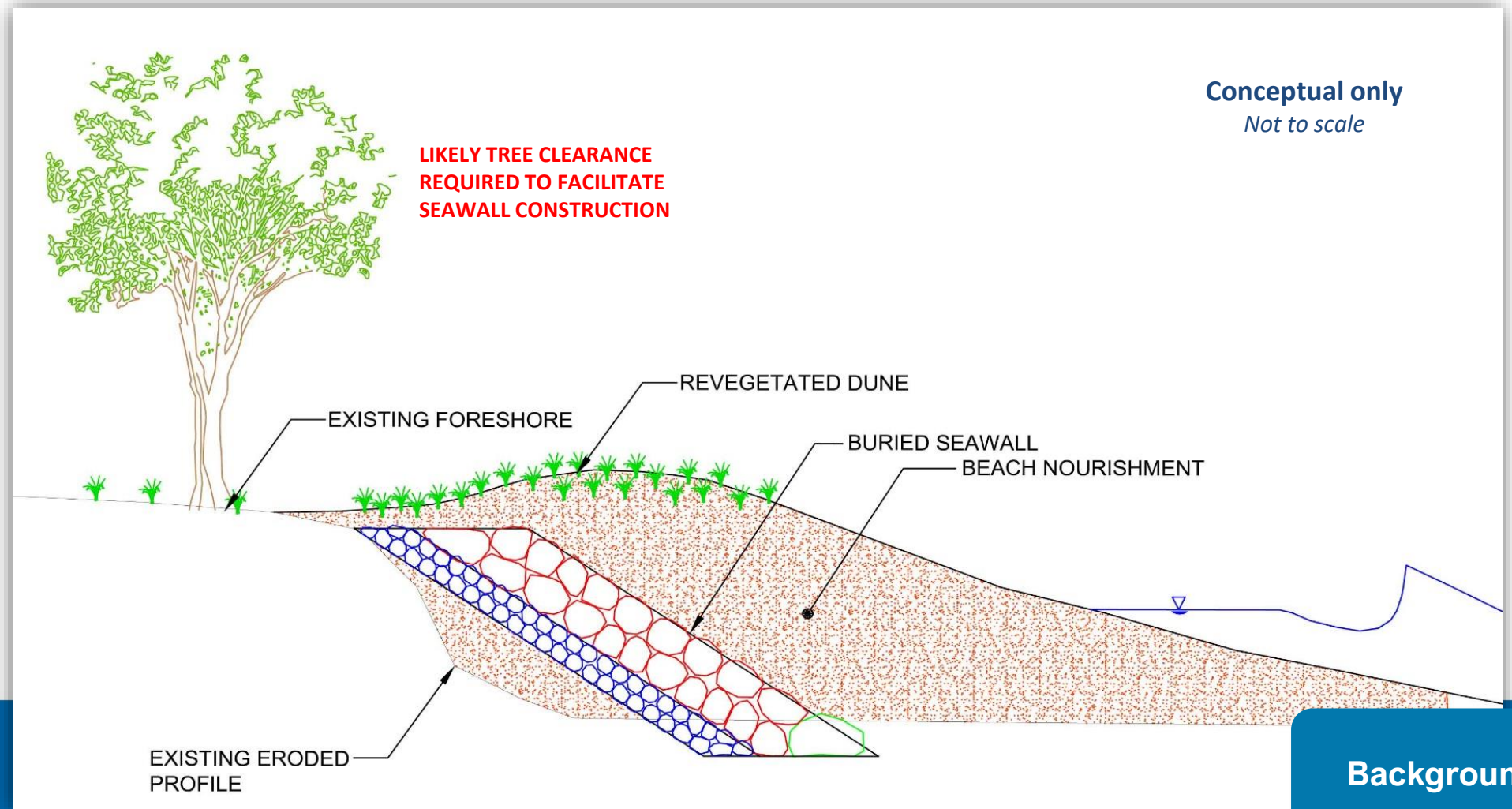




Northern Precinct = Erosion



Recommended Erosion Strategy – Nourishment & Buried Seawall





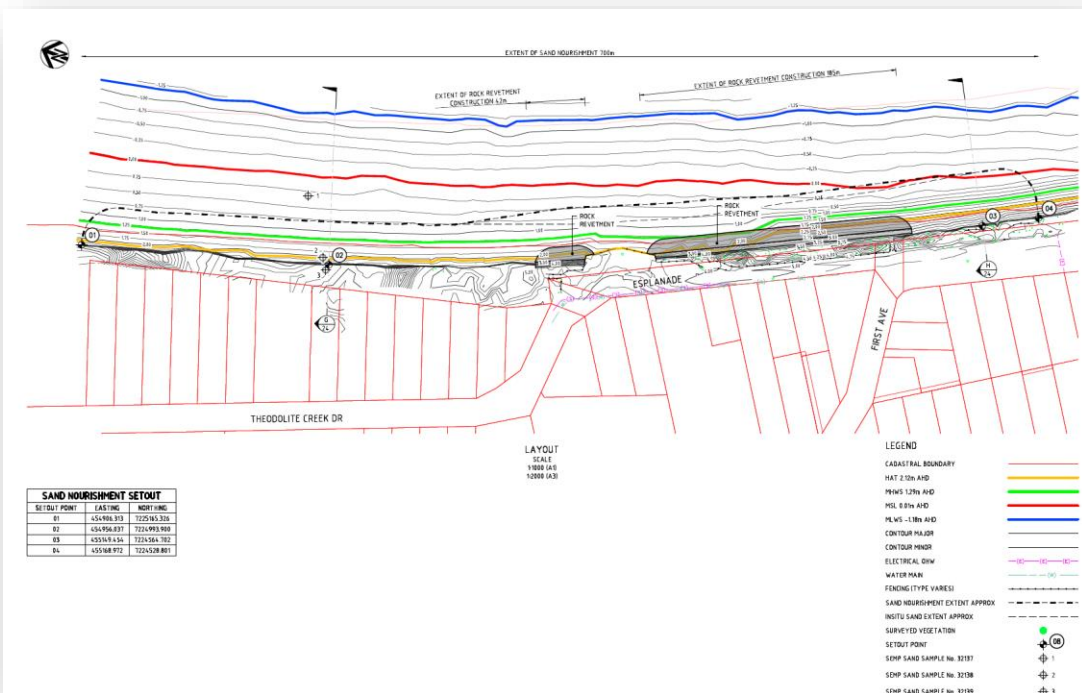
Engineering

- Used the SEMP to inform the design
 - ~ 240 metre of buried rock revetment; and
 - ~ 16,000 m³ of sand nourishment either side of the Woodgate Beach Boat Ramp
- Primary purpose:
Provide **terminal shoreline protection; protecting infrastructure and residential development** immediately landward from shoreline recession
- Completed January 2020



Approvals (SARA)

- Development Application for Operational Works for Tidal Works (**Approved August 2020**)
- SARA - Referral Agency
- Schedule 10, Part 6, Division 3, Subdivision 3, Table 1 (Planning Regulation 2017) – **development impacting marine plants**
- Schedule 10, Part 17, Division 3, Table 2 (Planning Regulation 2017) – **tidal works impacting maritime safety**
- Schedule 10, Part 17, Division 3, Table 1 (Planning Regulation 2017) – **tidal works and work in the coastal management district impacting coastal management**

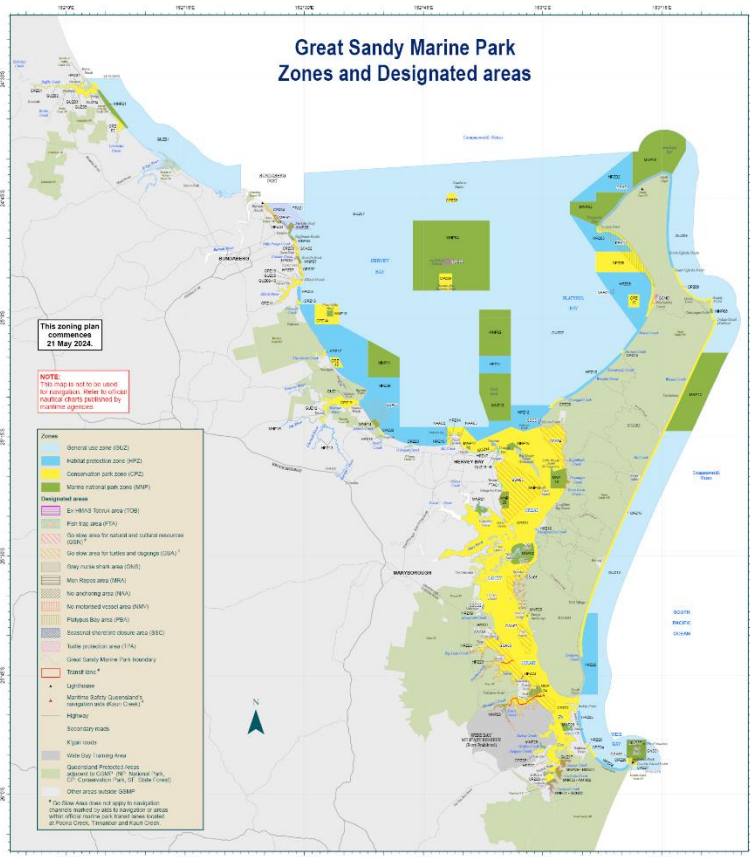


Total Cost Estimate – **\$2.4m (2020)**
Includes ~\$726,000 nourishment

Woodgate Erosion Timeline...

- Completed SEMP - **March through December 2018**
- Detail engineering designs completed – **January 2020**
- Operational Works application – **June through August 2020**
- QRA North Queensland Natural Disaster Mitigation Funding Secured – **November 2022** (to be expended *December 2023*)
- Construction Tender Released – **4th March 2023**

Approvals (QPWS)



- **Great Sandy Marine Park - Woodgate Beach**
- The portion of the project area below Highest Astronomical Tide (HAT) within the **Conservation Zone** of the Great Sandy Strait Marine Park (CPZ07)
- **30th March 2023** QPWS advise that **beach nourishment activities** were **NOT PERMITTED** in the **Conservation Zone**, review proposes change to **Habitat Protection Zone** in **New Zoning Plan ~2024***which would be permissible??*
- Council requests urgent advice and assistance from Director General Department Environment and Science
- Council submits State Marine Parks Application under Marine Parks Act 2004 (**21st July 2023** and **approved 13 September 2023**)
 - Carry out works - Beach nourishment
 - Carry out works - Foreshore protection
 - **Must not carry out works during marine turtle nesting and hatching season (1 October to 30 April)**

Community highlight intolerable risk...

Coastal erosion prompts flooding fears at Woodgate Beach as foreshore at risk of collapse

By Nikki Sorbello ABC Wide Bay Erosion

Wed 11 Oct



Remnants of a picnic table and brick footpath along the closed section of Woodgate Beach. (ABC Wide Bay: Nikki Sorbello)



Residents of Woodgate Beach have vowed to continue fighting to have the eroded section of beach fixed. (ABC Wide Bay: Nikki Sorbello)

Source: <https://www.abc.net.au/news/2023-10-11/woodgate-beach-erosion-prompts-flooding-fears/102952944>

Erosion Increasing...



Erosion Review Outcomes

- April 2024 - Review of erosion rates and volume of nourishment required (includes baseline surveys *post 2018*)
- Between 1979 and 2018, the Central Precinct maintained stable; however, **erosion rates have intensified since 2018.**

Scenario	Total Volume	Length	Volume / m
2018 SEMP Recommendation	16,000m ³	700m (400m north, 300m south of boat ramp)	23m ³
2024 Updated Recommendation	33,000m³	1300m (400m north, 900m south of boat ramp)	23m ³ (north of boat ramp) 26m ³ (south of boat ramp)

Construction Update

- Pre-Construction January – May 2024
- Construction started **mid-May 2024!!**
- 6.30am and 6.00pm **Monday to Saturday**
- **55,000t** of sand being to be placed. **17,000t** placed already
- Stockpiled just outside of township
- 2x truck and dogs per day from quarry (**production rate limits**)
- Sand Placement Rate **~1,000t / day** (sourced from local stockpile with 4 dump trucks loading into a Moxy to place on beach)





5 June 2024 3:00:2
197 Espla
Wood
Queens



09/07/2024 14:34
25.09227262S 152.55442923E
192° S



16/07/2024 14:42
25.09502382S 152.55560807E
327° NW

Construction

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- Operational Works application – **June through August 2020**
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- Construction Tender Released – **4th March 2023**
- Great Sandy Marine Park Zoning Plan Review – QPWS advises beach nourishment not permissible activity for Woodgate Beach – **30th March 2023**
- Marine Park Permit Application - **July 2023 – Approved 13th September 2023**
- Community Uproar “Save our Beach” Campaign and Rally - **October 2023**
- Principal Contractor Appointed - **January 2024**
- Pre-Construction Planning **January – May 2024**
- **New** Great Sandy Marine Park Zoning Plan comes into effect – **21st May 2024**
- Site Works – **May 2024 until ~December 2024**

Questions..

Want to know more?

<https://www.ourbundabergregion.com.au/woodgate-shoreline-erosion-management-plan>