

Douglas CHAS Journey

'Where the rainforest meets the reef'

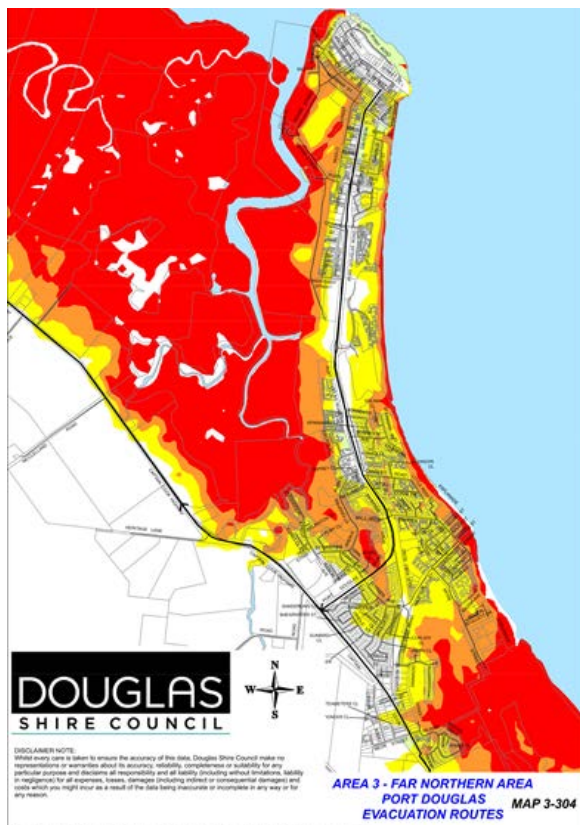


Nicola Learmond
Sustainability Officer

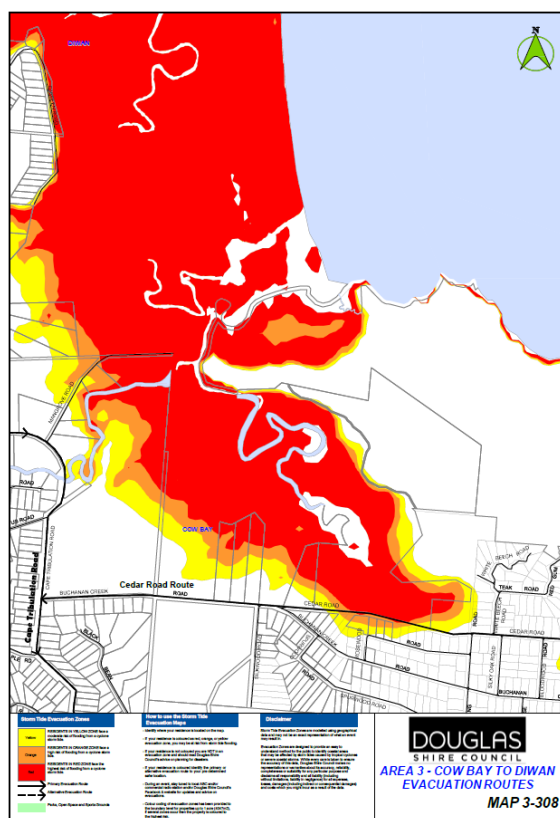
Nicola.Learmond@douglas.qld.gov.au



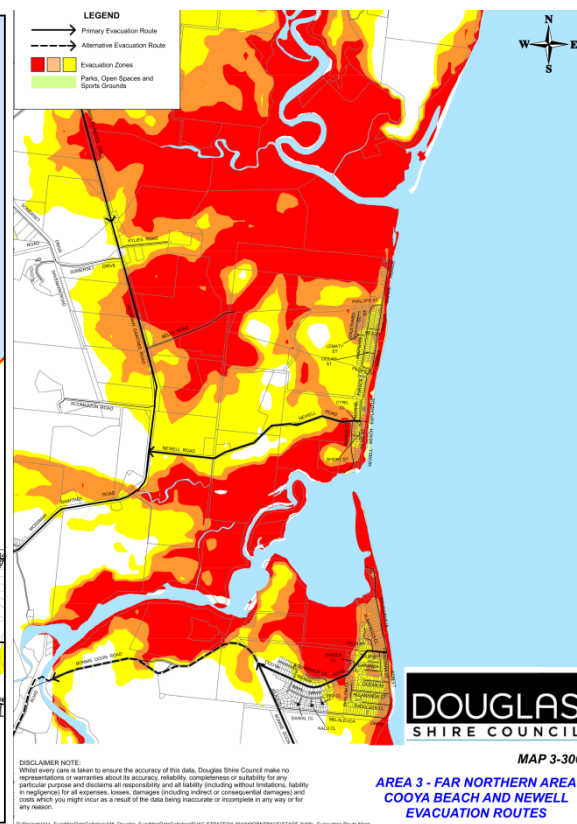
- The Douglas Shire covers an area of 2,445 km²
- Population of 11,196 (2011 Census)
- 70% of the population reside in Port Douglas and Mossman
- 1.2 million visitors annually
- Sugarcane and agricultural industry



Port Douglas



Wonga Beach



Cooya Beach & Newell Beach

Red Zone (highest risk) < 2 m above AHD
Orange Zone (high risk) 2 - 3 m above AHD
Yellow Zone (moderate risk) 3 - 4.5 m above AHD



- Douglas Shire has already seen significant coastal erosion in some locations, e.g. Newell Beach, Oak Beach, Lower Daintree River Bank



Newell Beach 2014



- Newell Beach Sandbag Groyne Project February 2016
- 5 sandbag groynes
- Sand nourishment between bags



Coastal Erosion – Newell Beach



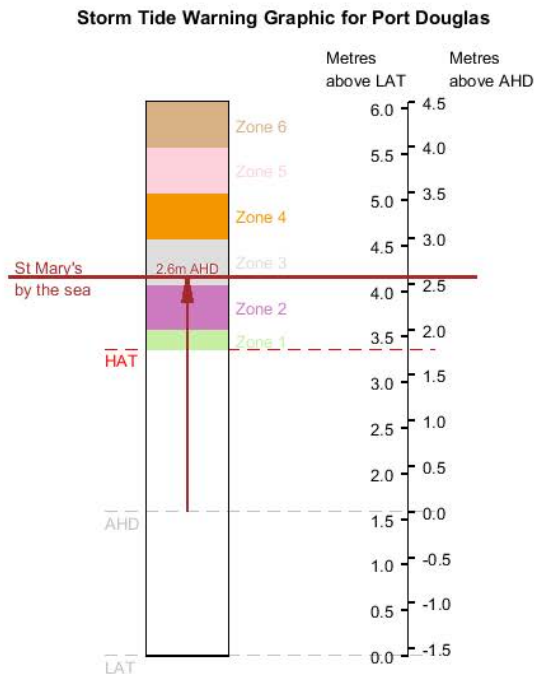
Groyne B (pre work)
4 January 2016



Groyne B
30 January 2016

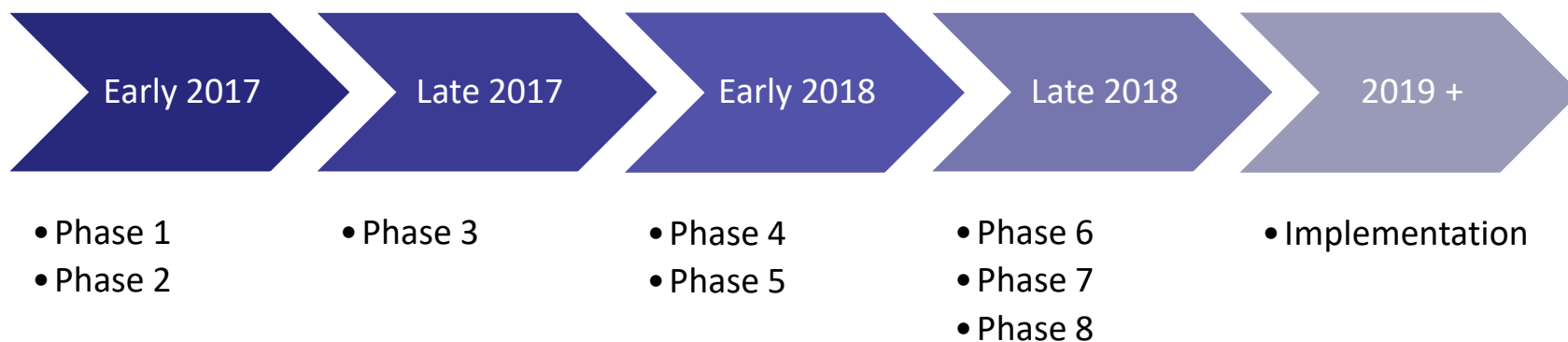


Groyne B
9 June 2016

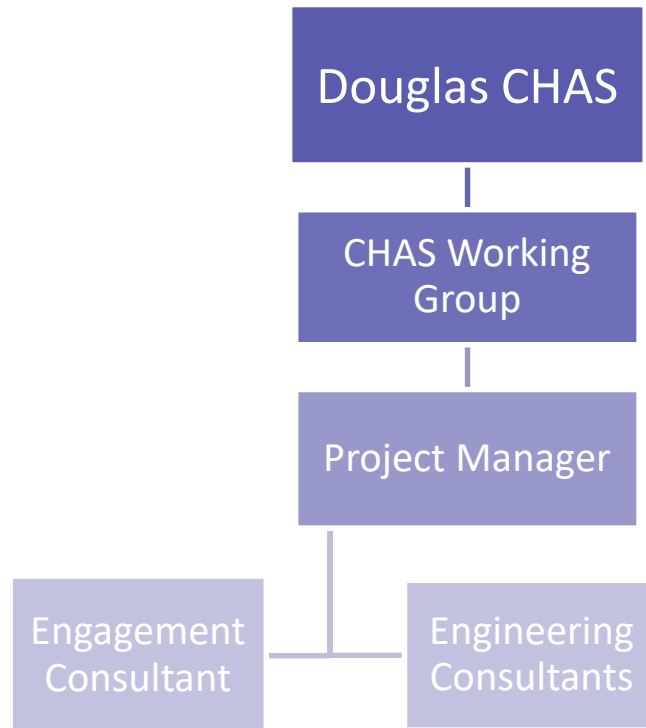


St. Mary's by the Sea, Port Douglas

- QCoast₂₁₀₀ grant application for Phases 1 and 2 approved in December 2016.
- Phase 1 & 2 completed in May 2017.
- Submitted grant application for Phases 3 to 8 in May 2017.



- CHAS Working Group established late 2016



CHAS Working Group

- Sustainability Officer
- Project Engineer
- Local Disaster Coordinator
- Manager Infrastructure
- Strategic Planner
- Planning Officer

- Critical analysis of existing mapping covering the Douglas Shire, including **coastal erosion**, **storm tide inundation** and **flooding**, using 1% AEP and 0.8m sea level rise by 2100.
- 14 areas identified which may be at risk from coastal hazards and require further investigation.



% of Community Infrastructure At Risk From Coastal Hazards

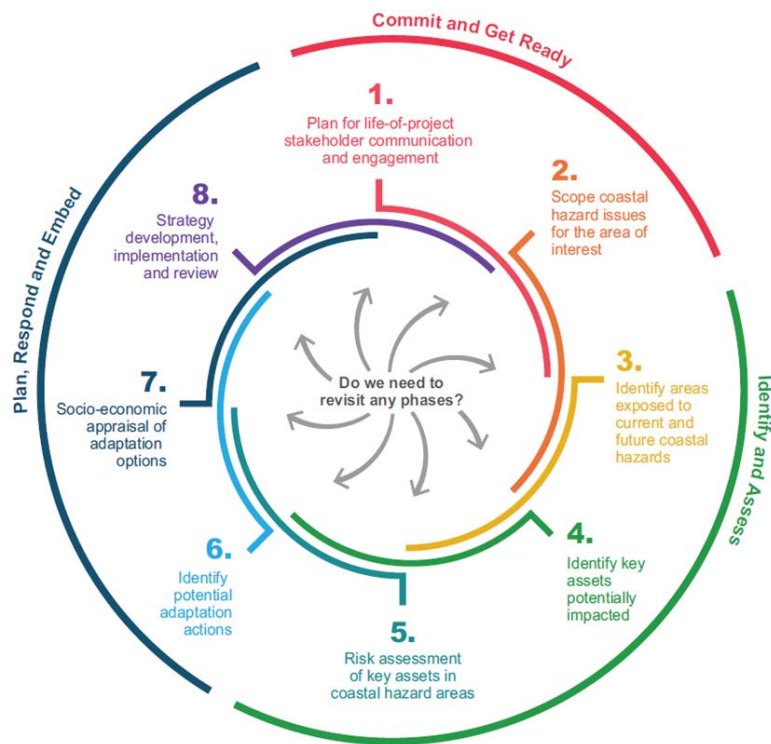
Infrastructure at Risk	Storm Tide Inundation	Erosion Prone Zone	HAT Inundation
Roads	10%	2%	3%
Sewer	30%	4%	6%
Stormwater	35%	6%	10%
Water	18%	2%	3%

Also considered the number of residential and non-residential properties affected by coastal hazards and the impact on weeds and pests.

- Stakeholder Communication & Engagement Plan for all 8 Phases of the CHAS.
- Includes a plan for internal and external engagement.

Communication to Date

Phase	Communication
0	<ul style="list-style-type: none"> • Establish CHAS Working Group • Councillor Workshop 16/08/2017 – CHAS Overview • Council Meeting 11/10/2016 – CHAS Grant application
1	<ul style="list-style-type: none"> • CHAS Working Group meetings • Councillor Workshop 17/01/2017 – CHAS Update with consultants
2	<ul style="list-style-type: none"> • CHAS Working Group communication • Councillor Workshop 16/05/2017 – CHAS Phase 1 and 2



- Grant application for Phases 3-8
- Commission local erosion mapping for the Douglas Shire
- Consolidate GIS asset data
- Preparation of simplified consolidated mapping
- Community workshops and webpage

