



Geelong – Queenscliff Coastal Adaptation Program





Geelong –Queenscliffe Coastal Adaptation Program (Our Coast)

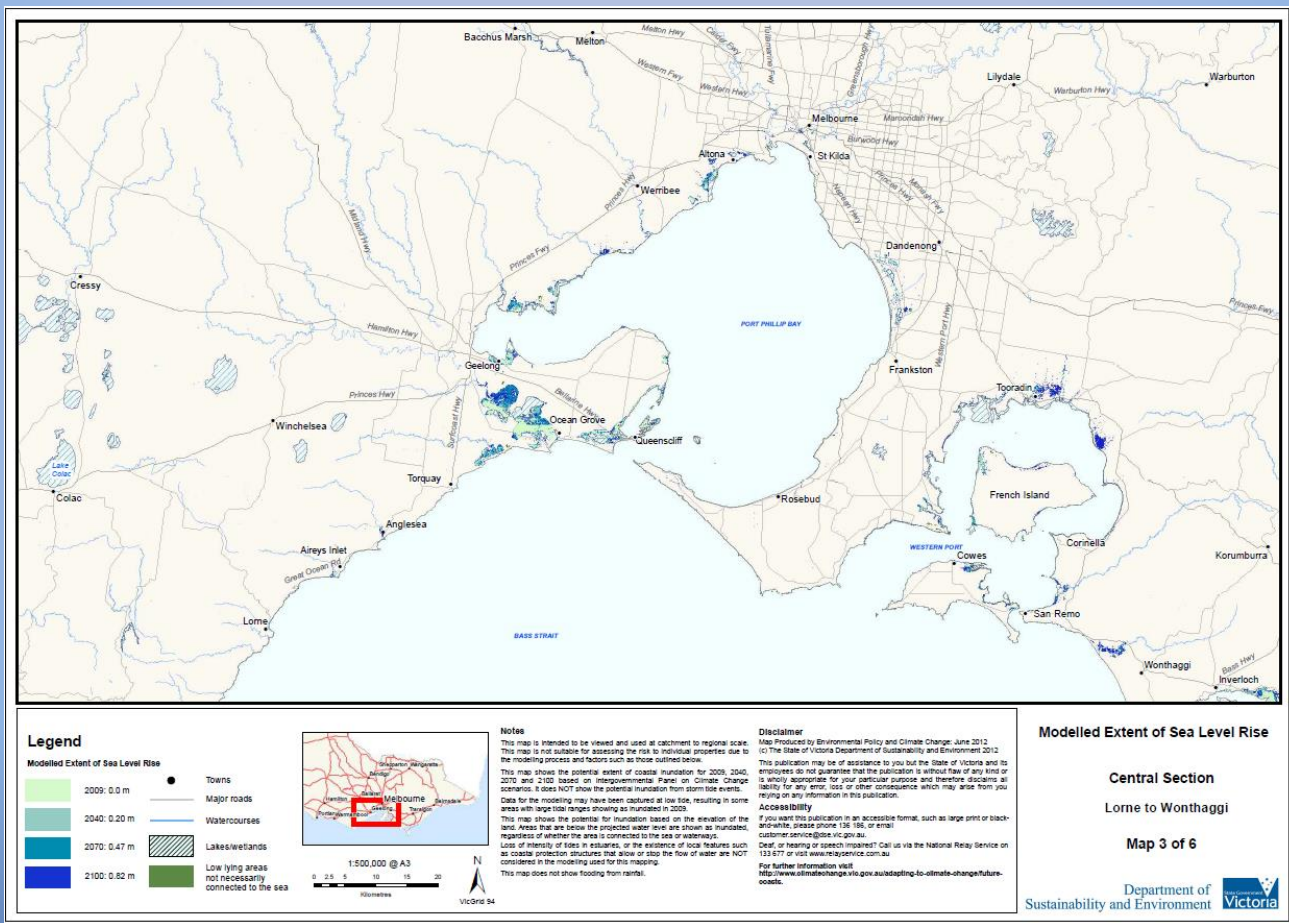
Evolved out of the “Future Coasts Program”

The main purpose of the Future Coasts Program was to assist Victoria in better understanding and planning for the risks associated with sea level rise and storm surge.

The first stage involved collecting the quantitative information needed to assess coastal risks from climate change.

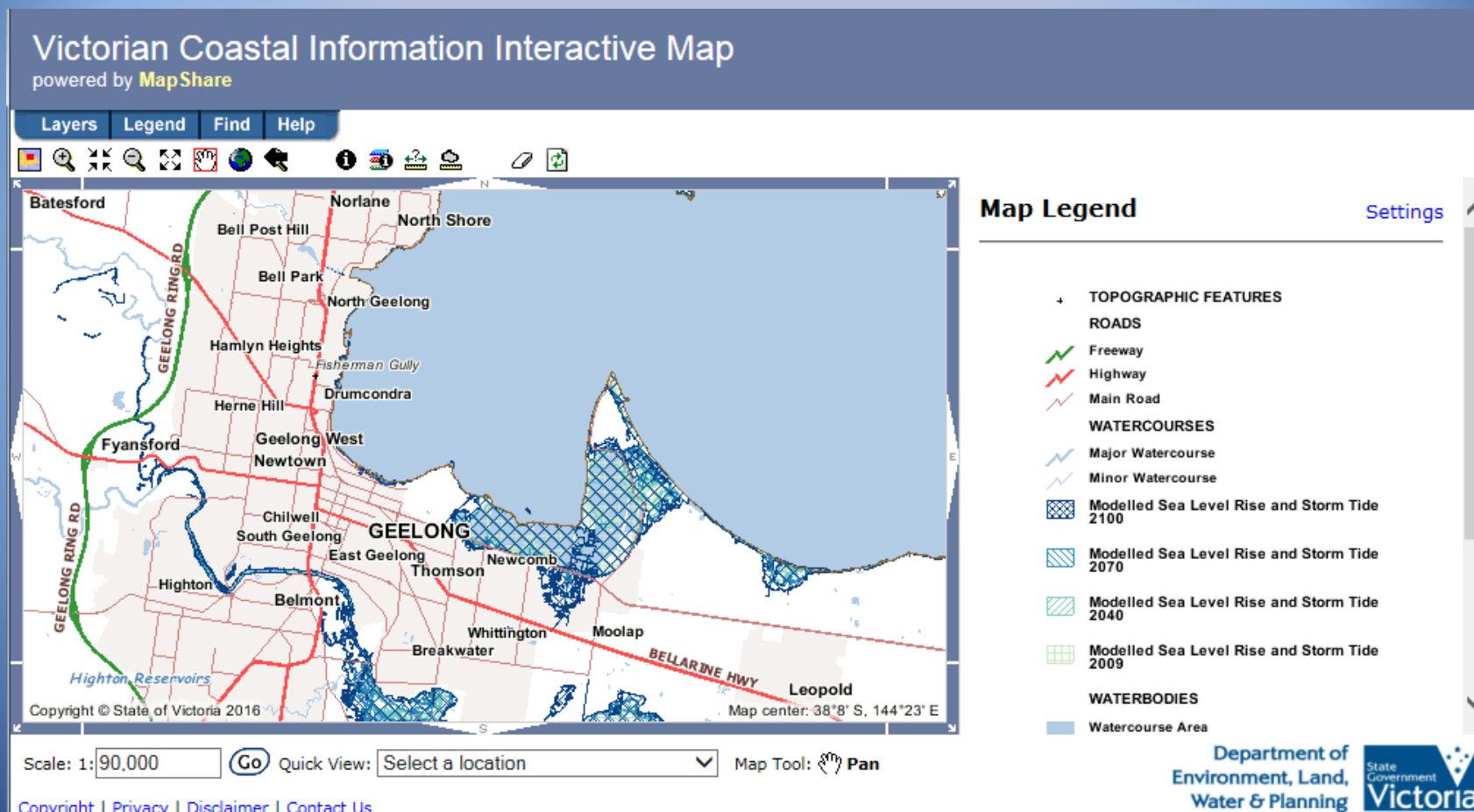


Future Coasts





Future Coasts





Future Coasts

The second stage involved conducting vulnerability assessments of Victoria's built and natural coastal assets.

4 Pilots – Port Fairy, Geelong/Queenscliffe,
Westernport & Gippsland Lakes



Geelong –Queenscliffe Coastal Adaptation Program

STAGE 1

Local Coastal
Hazard
Assessment

Investigate and
map future
potential erosion &
inundation

STAGE 2

Coastal Climate
Change Risk
Assessment

Analyse what the
inundation will
mean for coastal
communities

STAGE 3

Coastal
Adaptation Project
(Our Coast)

Plan future actions
to prepare for
future inundation

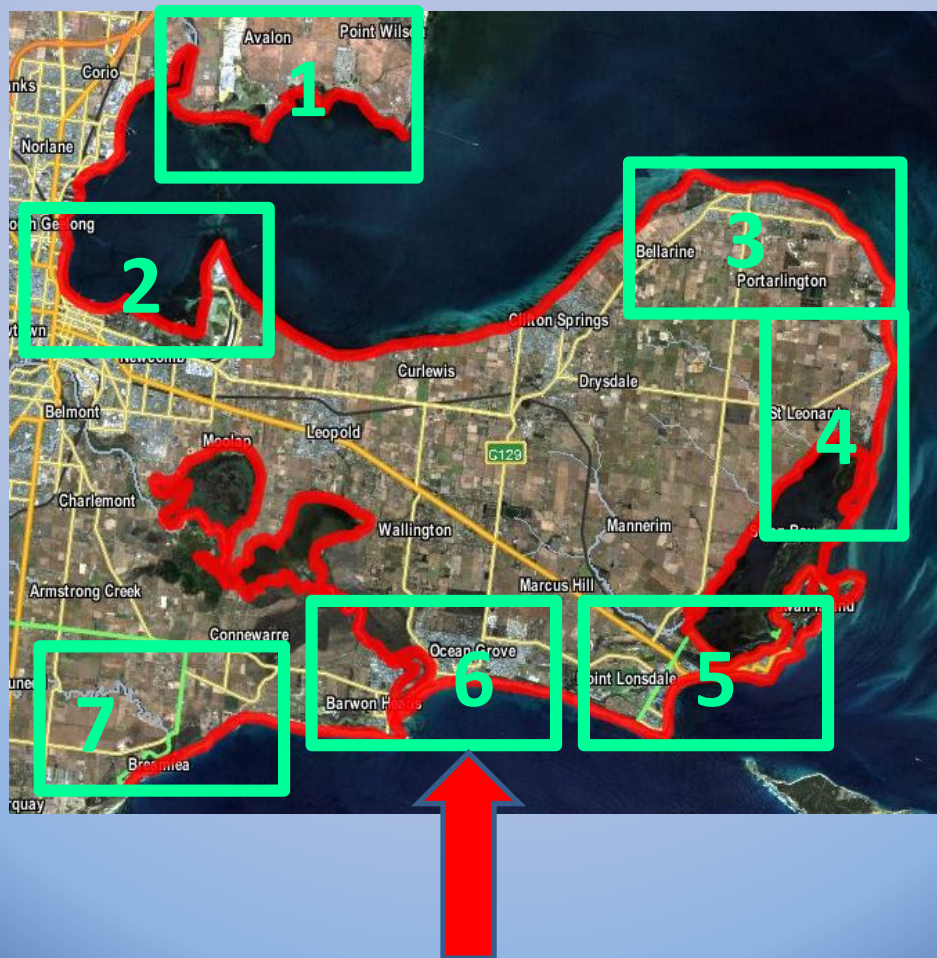


Local Coastal Hazard Assessment





Vulnerable Locations



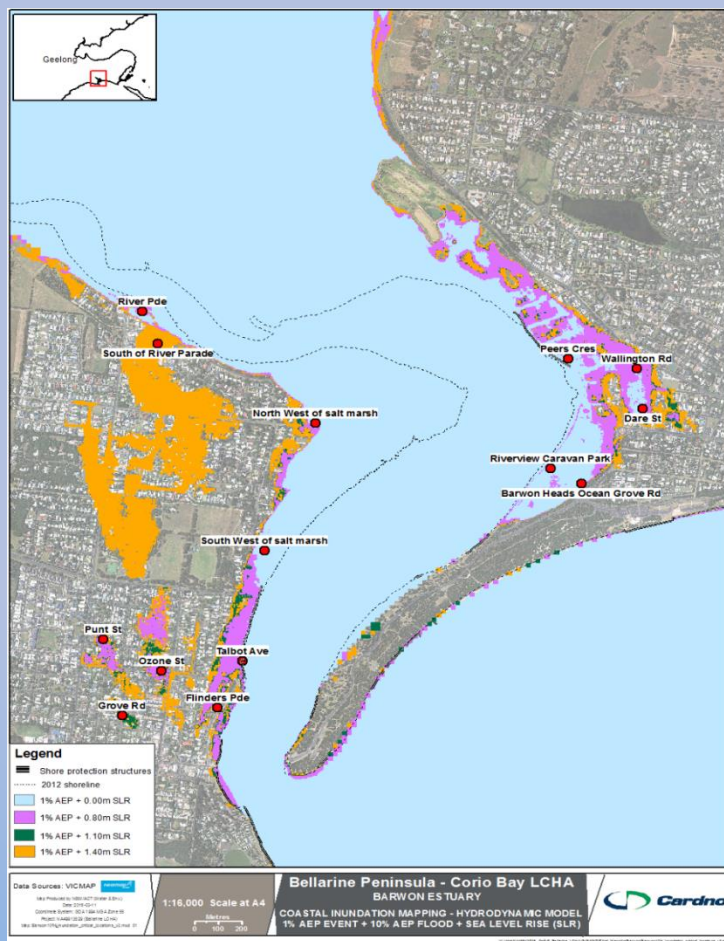


Barwon Heads



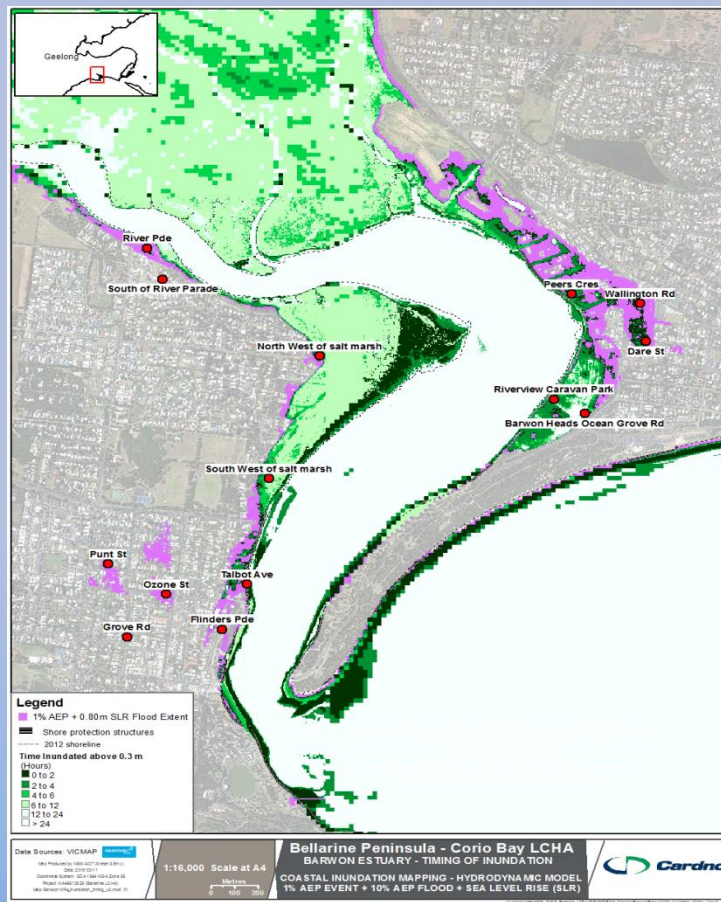


Inundation Maps

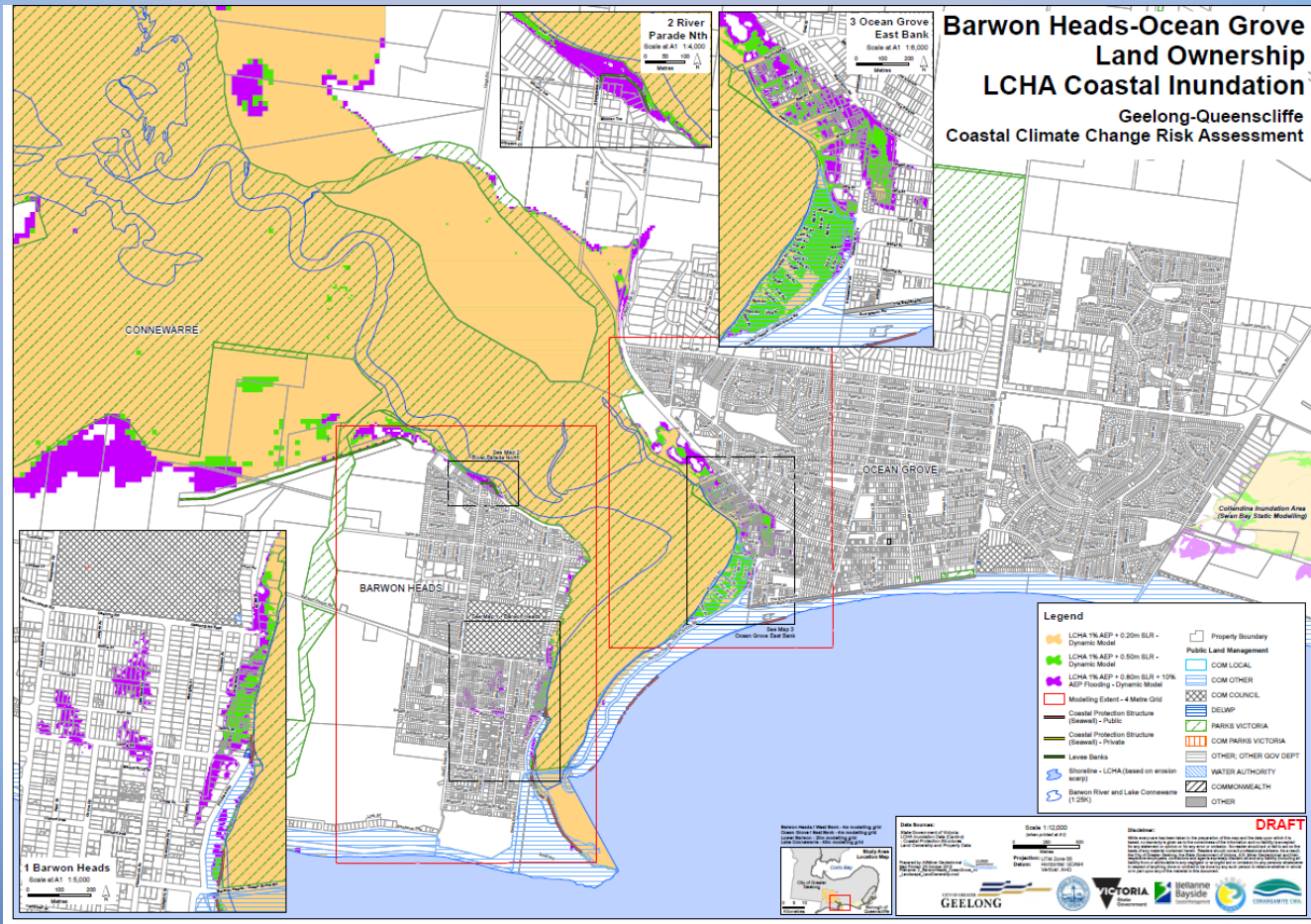




Modelled Predictions



Assets Risk Assessment





Assets Risk Assessment – Micro-locations





Assets Risk Assessment – Micro-locations

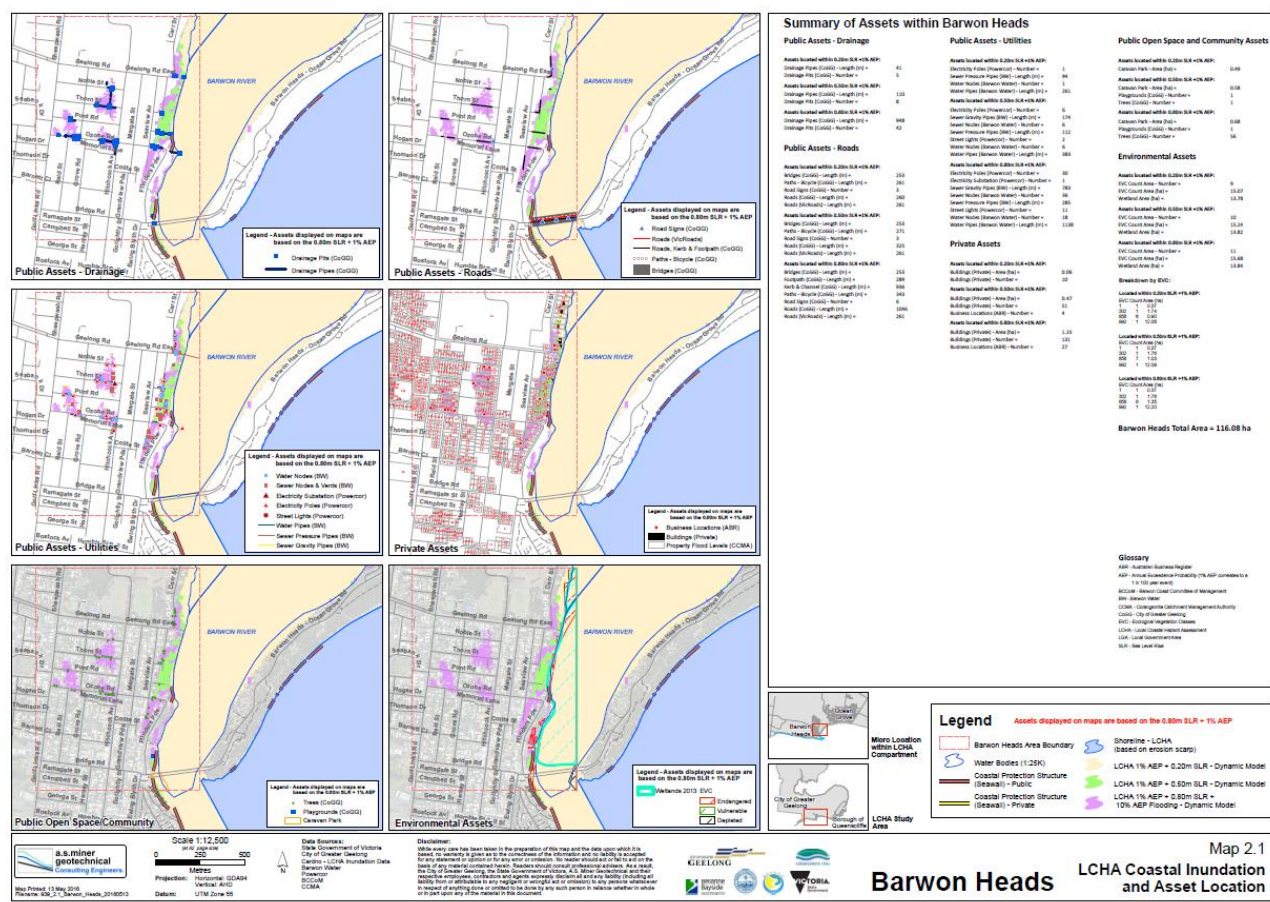




Assets Risk Assessment – Micro-locations

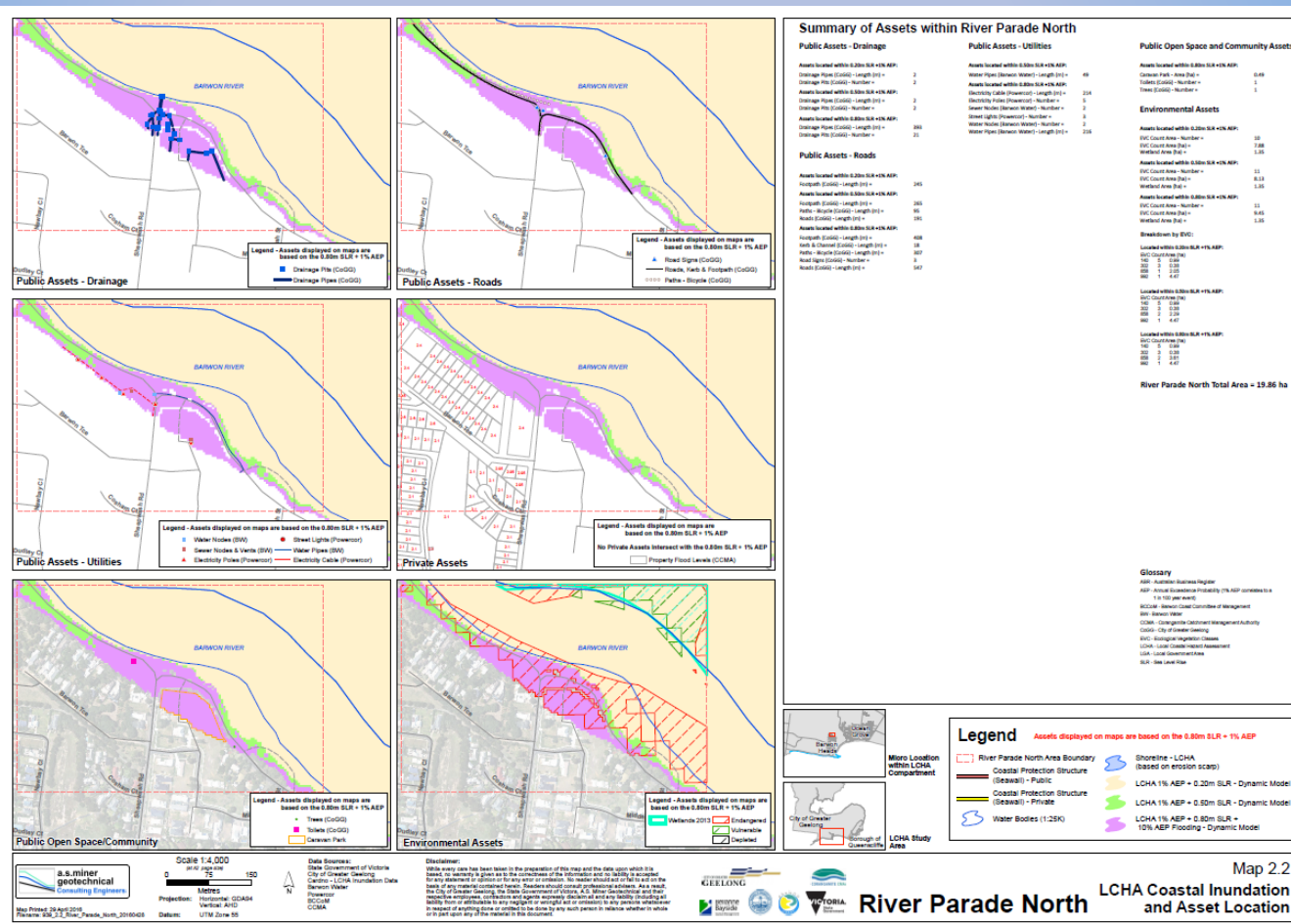


Values at Risk – Barwon Heads



[illegible]

Values at Risk – River Parade





Risk Assessment Methodology

The objectives of the risk assessment were to:

Assess the risks of inundation identified in the Local Coastal Hazard Assessment to coastal communities and associated natural areas, in particular private, public, environmental & social/cultural assets.

Prioritise the identified risks to inform adaptation planning



Risk Assessment Findings - Barwon Heads

Key risks commence under the 0.5 m and 0.8 m SLR scenarios and are associated with private property and open space assets.

Some inundation will be as a result of backflow from drains

Ground water levels under sea level rise are of concern and require further investigation



Risk Assessment Findings – East of Carr Street

There is risk to 13 private properties from inundation, this risk occurs under the 0.8 m sea level rise scenario.

Ground water levels under sea level rise are of concern and require further investigation



Risk Assessment Findings – River Parade North

The main risk here is to local environmental assets and commences at 0.2 m sea level rise

Ground water levels under sea level rise are of concern and require further investigation



What are the Adaptation Options?





What are the Adaptation Options?





Where to from here?