

# Coastal Hazard Mapping

## Interpreting Coastal Hazard Mapping

The City's coastal hazard maps and mapping online tool provides an overview of the location of coastal hazard areas along the City's coastline.






Coastal hazard areas are the areas in which coastal processes such as severe storm erosion, inundation and future potential sea level rise may occur or impact. Coastal hazard areas were calculated using the methodology prescribed in State Planning Policy 2.6 which requires coastal hazard areas be identified for a 100 year planning timeframe and includes the following allowances:

- Allowance for severe storm erosion – models a 1 in 100 year storm event for three consecutive storm events.
- Allowance for historical shoreline movement – allowance is calculated as 100 times the historic annual rate of erosion.
- Allowance for erosion caused by future sea level rise – allows for a vertical sea level rise of 0.9m over 100 years.
- Allowance for inundation – models a 1 in 500 year storm event for inundation.

A coastal hazard area identified for a 100 year planning timeframe means that in 100 years, coastal processes (i.e. erosion) may occur in that area in the event of a severe storm and given a certain amount of sea level rise. It does not mean that water levels or the shoreline will be permanently located at this line.

The methodology for calculating coastal hazard areas does not take into account future action the City may take to adapt to potential future impacts. The risk of the modelled erosion occurring is considered relatively low and the majority of potential impacts are long term.

To assist in interpreting the coastal hazard mapping the following legend is provided. Note coastal hazard areas have been identified for immediate, 50 year and 100 year timeframes.

Legend	Description
 2015 Coastal Erosion	Provides an indication of the possible extent of severe storm erosion in the present day.
 2065 Coastal Erosion	Provides an indication of the possible extent of severe storm erosion in 50 years.
 2115 Coastal Erosion	Provides an indication of the possible extent of severe storm erosion in 100 years. Note all lots located west of the 100 year coastal hazard risk line are considered subject to coastal hazard risk.
 Rock	Rock has been identified that will provide sufficient protection against erosion.
 Seawall	A sea wall is present that will protect against erosion.