HOW CAN I BE INVOLVED IN THE CHRMAP PROCESS?

Community and stakeholder engagement is fundamental to development of the Plan. The City wants to know what you value about the coast and what you consider important for future coastal planning, protection and adaptation.

There are four key parts to the development of a CHRMAP and there will be several opportunities for you to be involved in this process, as shown below:

CHRMAP PROCESS	CHRMAP Part 1 Hazard assessment	Community Coastal Values Survey	CHRMAP Part 2 Risk assessment and potential adaptation options
CHRMAP Part 4 Final Adaptation Plan	Draft Adaptation Plan released for public comment	CHRMAP Part 3 Draft Adaptation Plan	Public Information Sessions and Adaptation Workshops

WHEN CAN I BE INVOLVED?

OPPORTUNITY	TIMING
Community Coastal Values Survey (completed)	September 2017
Information sessions and adaptation workshops	Early 2018
Draft CHRMAP made available for public comment	Late 2018

Should you wish to receive CHRMAP project updates and be notified of information sessions and workshops, please subscribe through the City's online portal RockPort (**www.cityrockport.com.au**) which can be accessed using any PC, tablet or mobile device.

Alternatively, you can email the City's Coordinator Sustainability and Environment via **customer@rockingham.wa.gov.au** to be placed on the CHRMAP project stakeholder register.

WHEN WILL THE CHRMAP BE COMPLETED?

The City anticipates the final CHRMAP, developed in consultation with the community and key stakeholders, will be completed in early 2019.
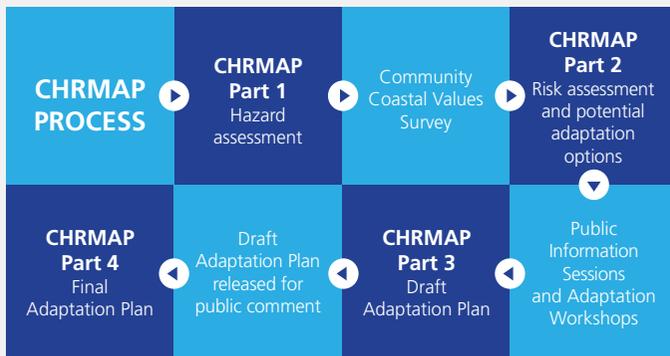
OUR COASTAL FUTURE

Coastal Hazard Risk Management and Adaptation Plan

The City of Rockingham is preparing a **Coastal Hazard Risk Management and Adaptation Plan** (CHRMAP) for our 37 km of coastline.

WHAT ARE **COASTAL HAZARDS?**

The two main processes that are considered hazards are erosion and inundation.

Erosion is the loss of sand as a result of sediment being transported by waves and currents, reducing the size of the sandy area on the beach.

Inundation is the temporary flooding of a portion of land within the coastal zone, particularly during severe storm events.

WHAT IS A **CHRMAP?**

A CHRMAP is a strategic planning document that informs the community and decision makers about potential coastal hazards (such as erosion and inundation), the consequences and necessary actions. The Plan will outline key directions for coastal adaptation over a 100 year planning timeframe, as well as prioritising management works over the next 10 years.

The CHRMAP will be developed in accordance with the *Department of Planning's State Planning Policy 2.6: State Coastal Policy (SPP2.6)* and associated guidelines. These guidelines require options for long term coastal protection to be considered according to the adaptation hierarchy shown to the right. The City has engaged coastal management experts to assist with the technical aspects of the project.

Approximately a 1 cm rise in sea level on a gently sloping beach will bring the water 1 m further landward

1 m

↑ 1 cm

Sea level rise has been measured over recent decades and in Western Australia coastal planning is required to address coastal erosion and inundation associated with a predicted rise of 0.9 m over the next 100 years.

ADAPTATION **HIERARCHY**

Avoid
Identify future 'no build areas' and use planning tools to prevent new development in areas at risk now or in the future.

Retreat
Withdraw, relocate or abandon assets that are at risk; ecosystems are allowed to retreat landward as sea levels rise.

Accommodate
Continue to use land in developed areas and accommodate risk through raised floor levels, raised roads, etc.

Protect
Use hard structures (e.g. sea walls) or soft solutions (e.g. dunes and vegetation) to protect land from the sea.

Infographics source: www.coastadapt.com.au

WHY DOES THE CITY NEED A **CHRMAP?**

The City has undertaken a range of coastal studies through partnerships with Cockburn Sound Coastal Alliance and Peron Naturaliste Partnership. These studies have identified that parts of the City's coastline are potentially vulnerable to the impacts of coastal hazards over the next 100 years. The CHRMAP will build upon previous studies to undertake a detailed analysis for the entire coastline.

Erosion at Mersey Point, Shoalwater in July 2017

Erosion during a storm at Rockingham beach in 2011