

# Swan Canning Riverpark foreshore Risk identification and mapping project

## Project Overview

The Department of Biodiversity, Conservation and Attractions (DBCA) is undertaking a foreshore risk identification and mapping project for the Swan Canning Riverpark. The project will identify erosion, inundation, and climate risks for the Riverpark, which includes the Swan River (Derbal Yirragan) and the Canning River (Djarlgarro). Risk mapping will illustrate anticipated foreshore hazards over a 100-year planning period.

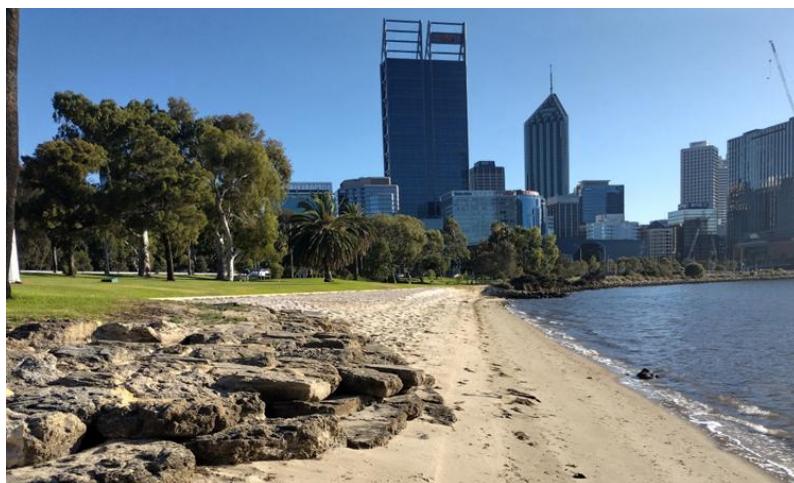


Image credit: Seashore Engineering, 2024; aerial photography supplied by DBCA.

## Why is the project important?

Understanding erosion and inundation risk across the Riverpark is essential for future foreshore planning and management in the context of a changing climate. The best available science will be applied across the Riverpark to produce technically sound data and mapping which will support improved risk management decision-making by illustrating likely long-term trends and demonstrating where existing practices may be challenged.

## What's involved?

- Assessment of local foreshore change, including interactions between the riverbed, bank structure, vegetation, and human activities, under changing conditions.
- Modelling and system-wide analyses of waves, hydrodynamics, and sediment dynamics, integrated with local-scale assessments of foreshore dynamics.
- Climate data processing, including down-scaled climate change projections for Perth region, to describe future scenarios.
- Forecasts of inundation and erosion hazards including key local drivers, with active and emerging processes.
- Risk mapping of projected inundation risk and erosion hazard (2025 to 2125), and identification of assets at risk.

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Information current as at December 2025

## How long is the project expected to take?

The project will be delivered in a phased way, with final reporting and stakeholder briefing sessions anticipated in early 2026.



### PHASE 1

Data Collation; Scenario Definition



### PHASE 2

Early 2025



### PHASE 3

Inundation; Flood; Erosion



### PHASE 4

Early 2026



## How can I find out more?

Results from the project will be communicated through a series of interactive briefing sessions, for specific river reaches of the Riverpark. Your input will help to manage and mitigate current and future risks to Riverpark assets. Three additional flyers will be produced to disseminate interim results, modelling considerations and final outputs and outcome to key stakeholders as they become available. Final project outcomes will be made available on the DBCA website with their applications and implications for management within the Riverpark discussed at a series of briefing sessions to which all Land Managers will be invited.

## Project partners/sponsors

DBCA acknowledge support of the following project partners and sponsors:

- Project delivery - Seashore Engineering and the University of Western Australia.
- Project funding - Commonwealth Government and the WA State Emergency Management Committee.



Image credit: Seashore Engineering, 2024

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