



Department of Biodiversity,  
Conservation and Attractions



Biodiversity and  
Conservation Science

We're working for  
Western Australia.

# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

### Canning Estuary and Lower Canning River

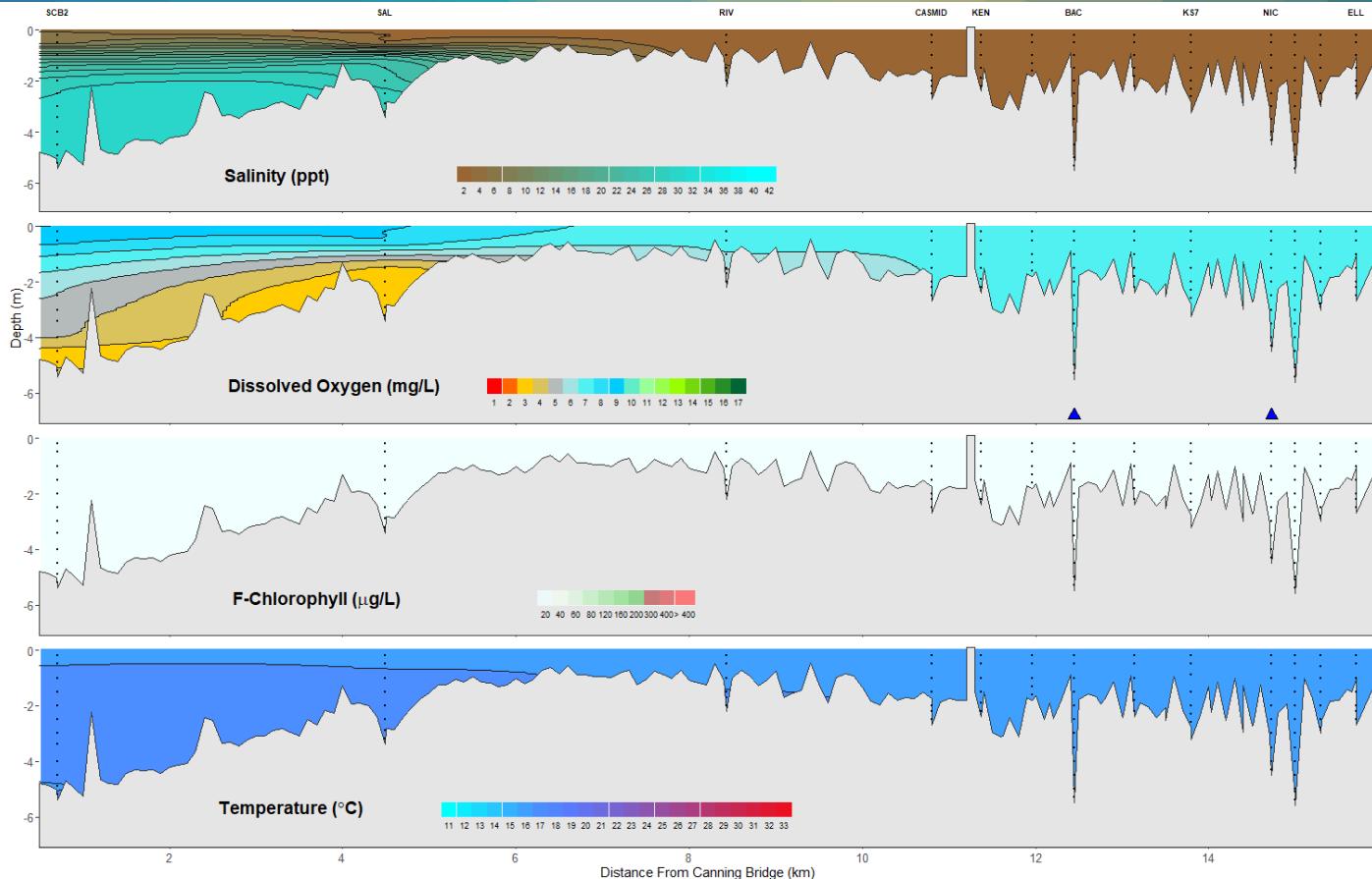
30<sup>th</sup> July 2024

Prepared by

Rivers and Estuaries Science  
Biodiversity and Conservation Science  
Department of Biodiversity, Conservation and Attractions



## Canning Estuary and Lower Canning River - Water Quality Profiles – 30<sup>th</sup> July 2024





Date: 30<sup>th</sup> July 2024

Weather & tide conditions: Conditions were partly cloudy with a variable breeze of up to 3.1 knots. The predicted tides at Barrack St were 1.17 m at 6:26 am (high tide) and 0.65 m at 6:42 pm (low tide). Perth recorded 45.6 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operable, but not triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was fresh, except at SCB2 and SAL where subsurface waters were brackish and bottom water were saline and at RIV where bottom waters were brackish. Waters were oxygenated or well oxygenated, except for bottom waters at SCB2 and SAL which were low in oxygen. Chlorophyll fluorescence was low and water temperatures ranged from 15.5 to 16.6 °C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh, waters were well oxygenated and chlorophyll fluorescence was low. Water temperatures ranged from 15.6 to 15.8 °C at the time of sampling.

**NB:** Profile plots are visual interpolations of measured parameters only. Detailed data are available at [wir.water.wa.gov.au](http://wir.water.wa.gov.au).

**Oxygenation Plant Operational Status:**

- ▲ Operating for part or all of the 24 hours prior to sampling
- ▲ Operable but not triggered to operate in the 24 hours prior to sampling
- ▲ Inoperable for part or all of the 24 hours prior to sampling

**Definitions:**

**Salinity** – fresh <5, brackish 5-25, saline 25-35, hypersaline >35

**Dissolved oxygen** – well oxygenated >6 mg L<sup>-1</sup>, oxygenated >4-6 mg L<sup>-1</sup>, low oxygen >2-4 mg L<sup>-1</sup>, hypoxic 0.5-2 mg L<sup>-1</sup>, anoxic <0.5 mg L<sup>-1</sup>

**Chlorophyll fluorescence (low flow):** low < 50 µg L<sup>-1</sup>, moderate 50-150 µg L<sup>-1</sup>, high 150-400 µg L<sup>-1</sup>, extreme > 400 µg L<sup>-1</sup>

**Recommended reference:** Department of Biodiversity, Conservation and Attractions 2024. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 23<sup>rd</sup> July 2024. Rivers and Estuaries Science* (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)