



Department of Biodiversity,  
Conservation and Attractions



Biodiversity and  
Conservation Science

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# Swan Canning Estuary Water Quality Monitoring Project

**Weekly Water Quality Report**

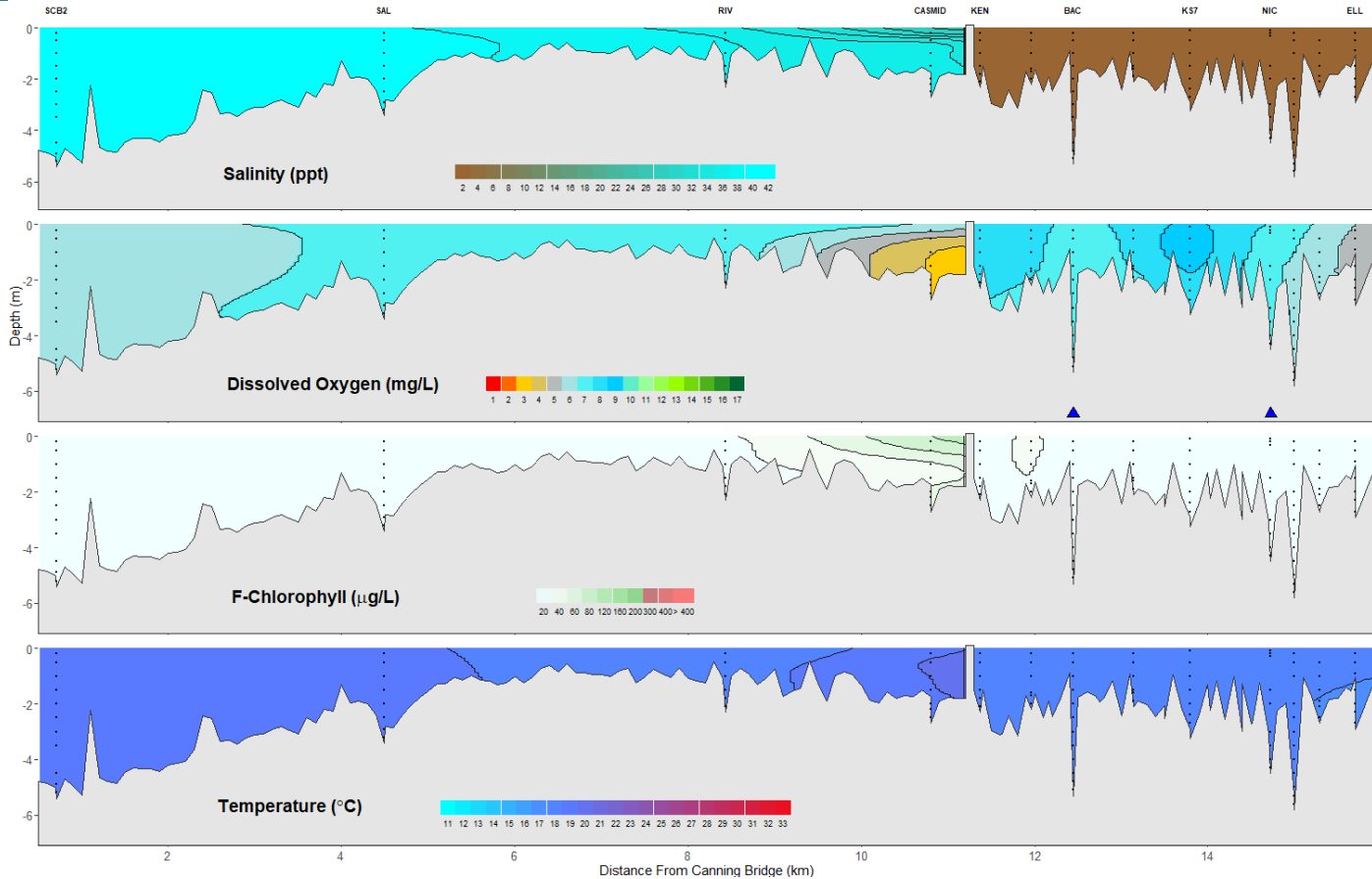
**Canning Estuary and Lower Canning River**

**21<sup>st</sup> May 2024**

**Prepared by**

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## Canning Estuary and Lower Canning River - Water Quality Profiles – 21<sup>st</sup> May 2024



Date: 21<sup>st</sup> May 2024

Weather & tide conditions: Conditions were cloudy with a north-westerly breeze of up to 1.2 knots. The predicted tides at Barrack St were 0.91 m at 1:34 am (low tide), 1.23 m at 9:52 am (high tide), and 0.83 m at 7:09 pm (second low tide). Perth recorded zero rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St. plant and the Nicholson Rd. were operable this week but not triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was hypersaline from SCB2 to RIV and saline at CASMID. Waters were oxygenated or well oxygenated, except at CASMID where oxygen ranged from oxygenated at the surface to low at depth. Chlorophyll fluorescence was low except for moderate levels recorded at CASMID. Water temperatures ranged from 16.2 to 19 °C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh, and waters were oxygenated or well oxygenated. Chlorophyll fluorescence was low and water temperatures ranged from 16.8 to 18.3 °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>