



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

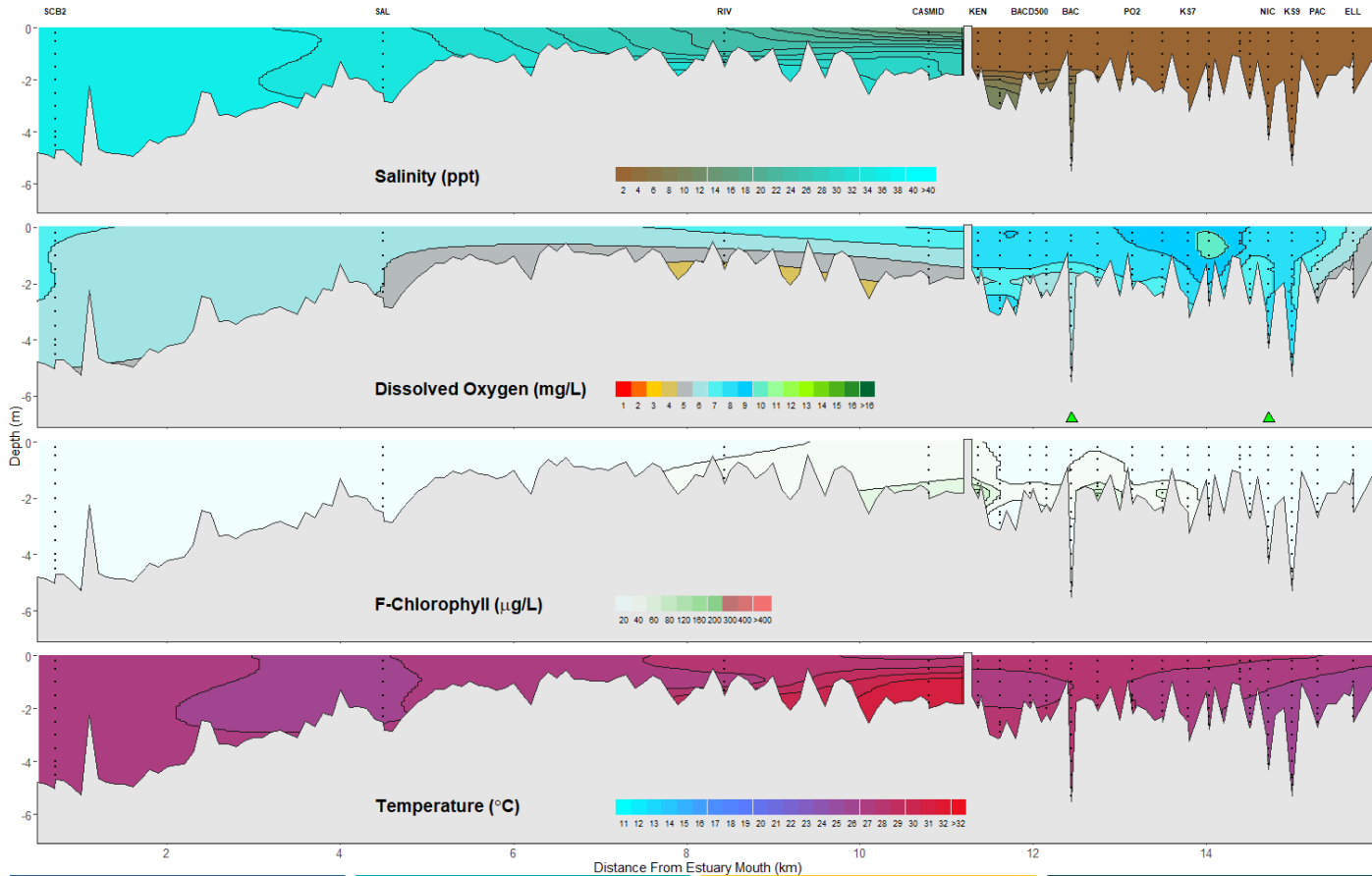
Canning Estuary and Lower Canning River

29 January 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 29 January 2025



Date: 29 January 2025

Weather & tide conditions: Conditions were clear with a predominantly easterly breeze of up to 10.7 knots. The predicted tides at Barrack St were 0.51 m at 8:53 am (low tide) and 1.2 m at 11:08 pm (high tide). Perth recorded 2.6 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was saline between SCB2 and SAL and brackish over from RIV to CASMID. Waters were oxygenated or well oxygenated, except for bottom waters at RIV which were hypoxic. Chlorophyll fluorescence was low, except in bottom waters at CASMID which were moderate. Water temperatures ranged from 25.9 to 30.7 °C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh, except for bottom waters at KENU300 and BAC which were brackish due to the intrusion of saline waters around the Kent St Weir as a result of significant storm surges on 23 and 24 January 2025. Waters were oxygenated or well oxygenated. Chlorophyll fluorescence was moderate in the bottom waters at KEN, BACU300 and GRE. Water temperatures ranged from 25.2 to 27.9 °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.

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⁻¹, oxygenated >4-6 mg L⁻¹, low oxygen >2-4 mg L⁻¹, hypoxic 0.5-2 mg L⁻¹, anoxic <0.5 mg L⁻¹
Chlorophyll fluorescence (low flow): low < 50 µg L⁻¹, moderate 50-150 µg L⁻¹, high 150-400 µg L⁻¹, extreme > 400 µg L⁻¹