

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

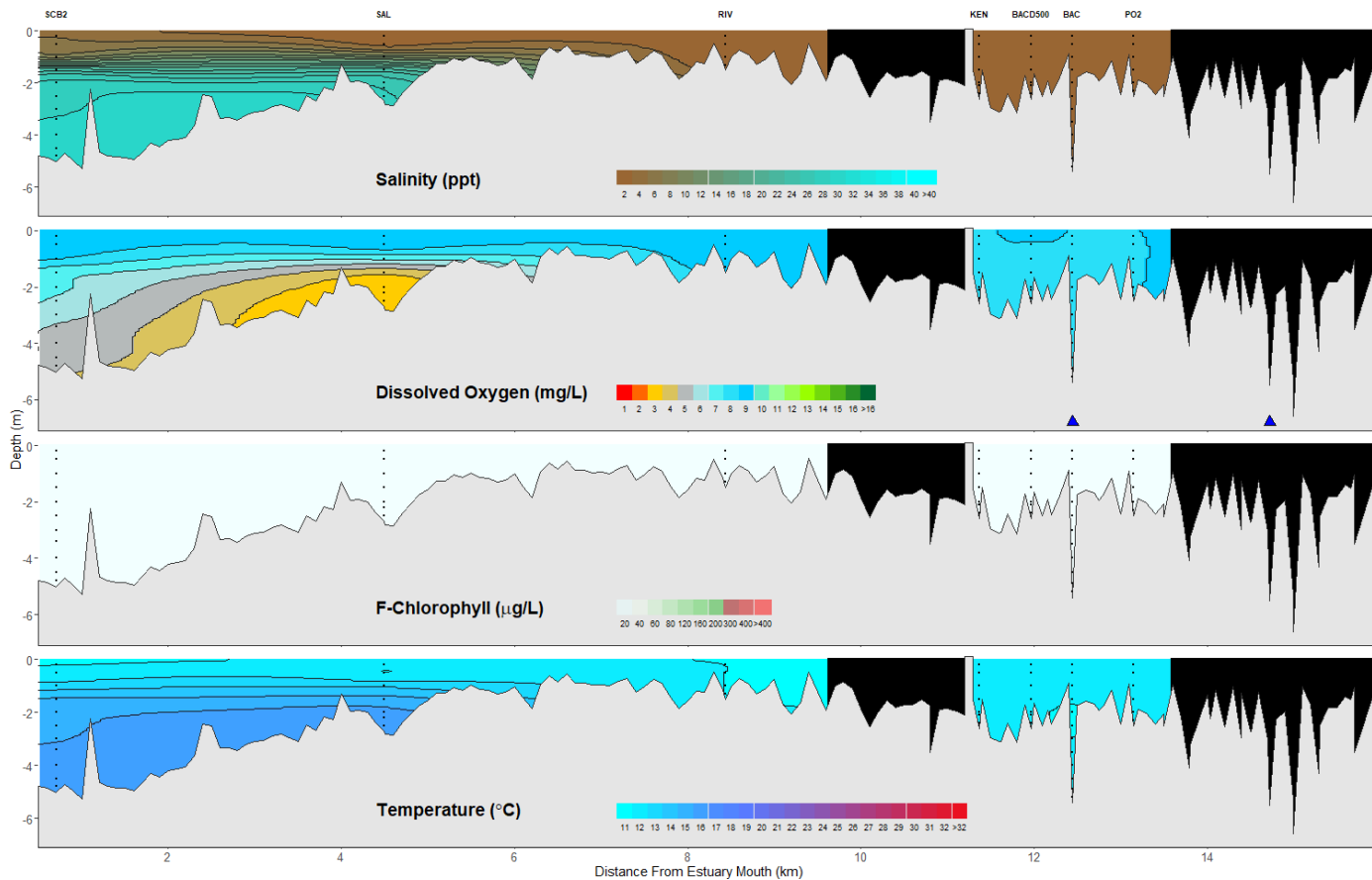
Canning Estuary and Lower Canning River

29 July 2025

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



Date: 29 July 2025

Weather & tide conditions: Conditions were clear with a south-easterly breeze of up to 3.3 knots. The predicted tides at Barrack St were 0.52 m at 5:35am (low tide), 1.04 m at 12:02 pm (high tide) and 0.83 m at 7:55 pm (2nd low tide). Perth recorded 84.4 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

NB: Canning Estuary site CASMID and Canning River sites upstream of Greenfields bridge were unable to be sampled due to technical issues and high water levels preventing access.

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 RIV): The Canning Estuary was fresh over saline from SCB2 to SAL, and fresh throughout at RIV. Waters were oxygenated or well oxygenated except for bottom waters at SAL which were low in oxygen. Chlorophyll fluorescence was high in surface waters at RIV. Water temperatures ranged from 11 to 15.6 °C.

Lower Canning River (KEN to PO2): The Lower Canning River was fresh and well oxygenated, with low chlorophyll fluorescence. Water temperatures ranged from 11 to 11.1 °C.

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