

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

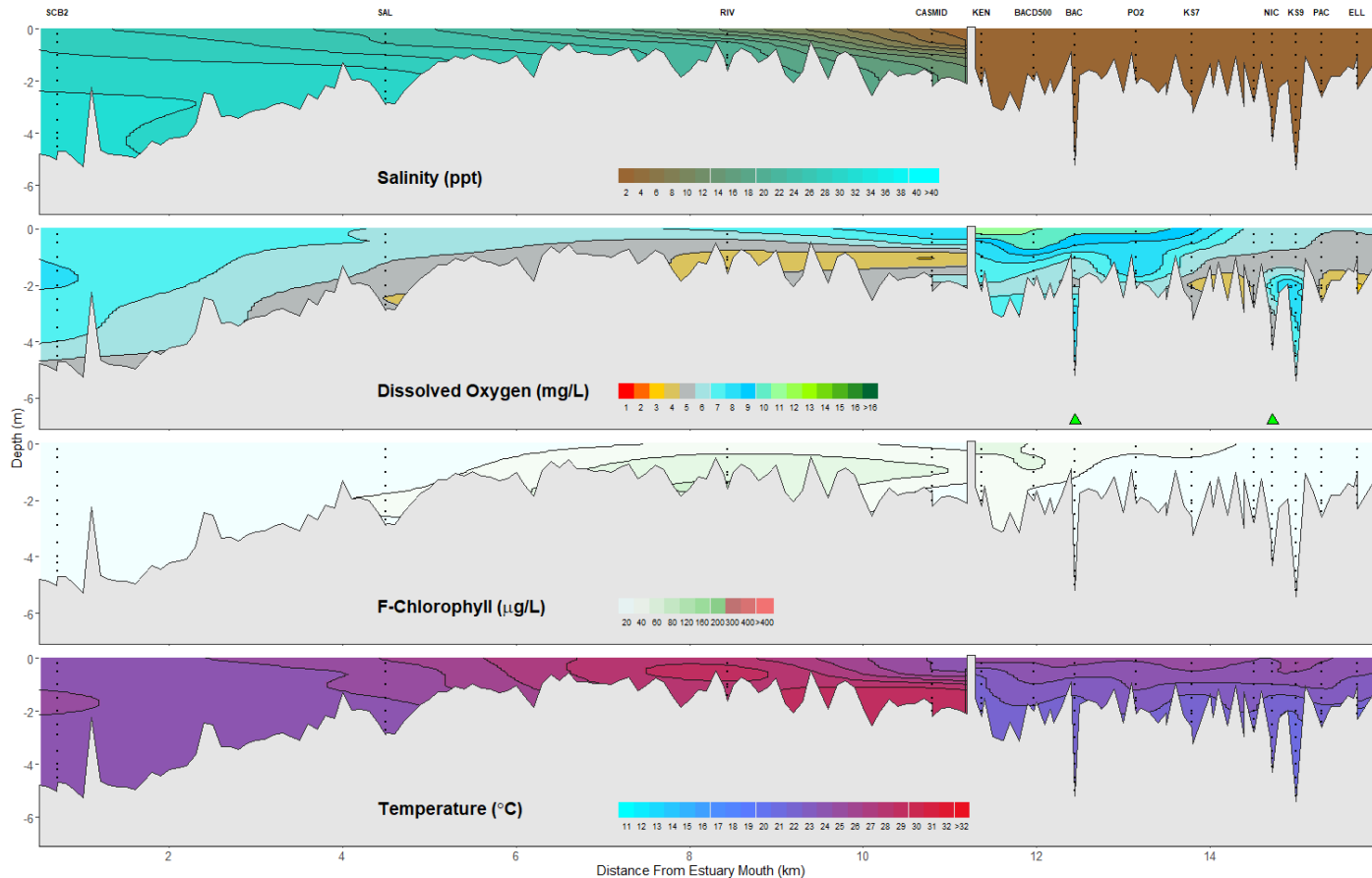
Canning Estuary and Lower Canning River

2 December 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 2 December 2025



Date: 2 December 2025

Weather & tide conditions: Conditions were mostly clear with a southerly breeze up to 3 knots. The predicted tides at Barrack St were 0.6 m at 6:22 am (low tide) and 1.13 m at 9:03 pm (low tide). Perth recorded 1.2 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (SCB2 to CASMID): The Canning Estuary was saline at SCB2, brackish over saline at SAL, brackish at RIV, and fresh over brackish at CASMID. Waters were oxygenated to well-oxygenated except for bottom waters of RIV and sub-surface waters of CASMID, which were low in oxygen. Chlorophyll fluorescence was moderate at RIV and low elsewhere. Water temperatures ranged from 23.2 to 29 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh. Waters were oxygenated to well-oxygenated except for bottom waters of KS7, PAC and ELL which were low in oxygen. Chlorophyll fluorescence was moderate in surface waters of KEN and low elsewhere. Water temperatures ranged from 20.7 to 25.1 °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