

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

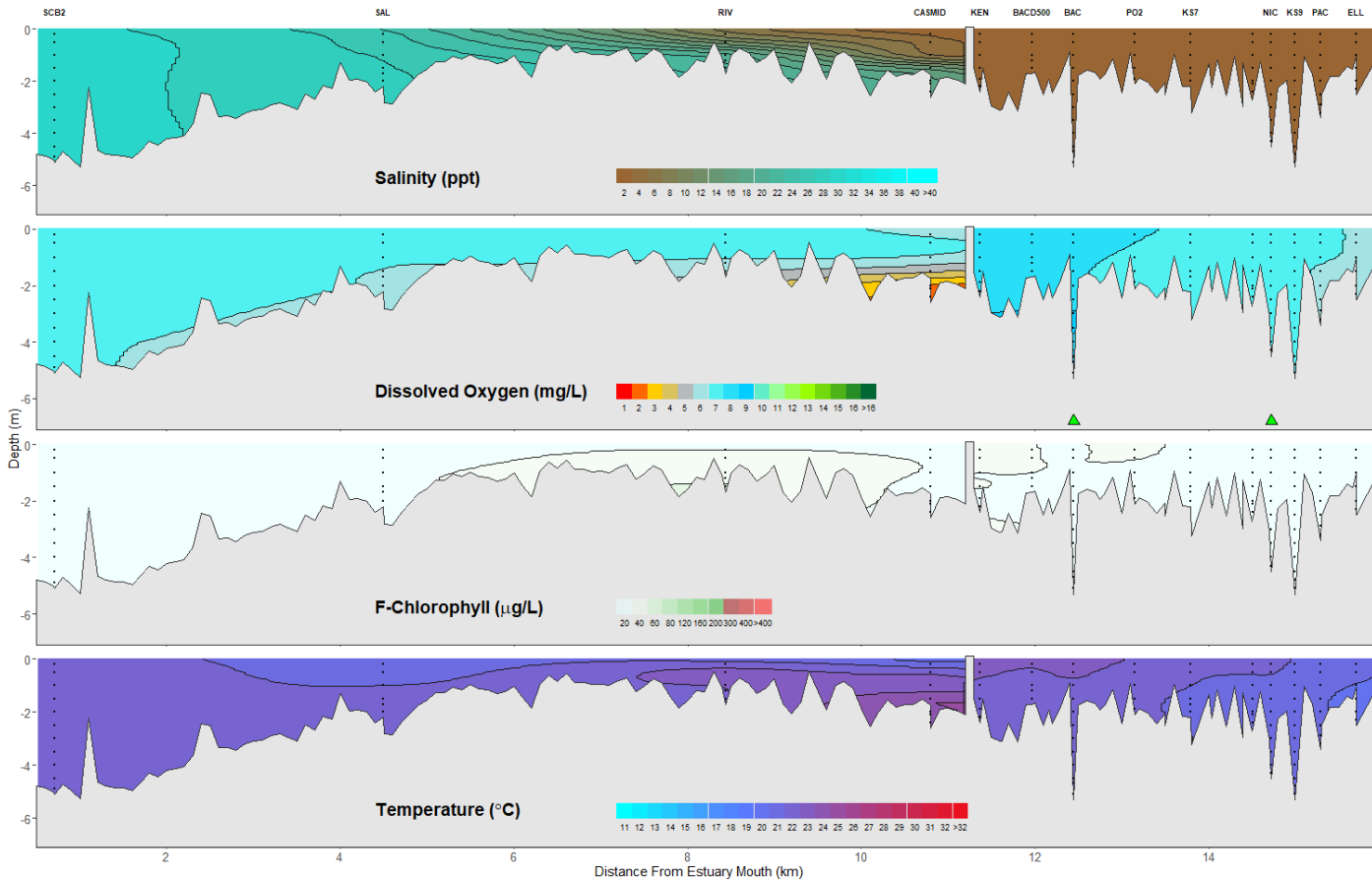
Canning Estuary and Lower Canning River

25 November 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 25 November 2025



Date: 25 November 2025

Weather & tide conditions: Conditions were overcast with a south westerly breeze up to 5.5 knots. The predicted tides at Barrack St were 1.1 m at 12:34 am (high tide) and 0.55 m at 11:30 am (low tide). Perth recorded 4 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 CASMID which were hypoxic. Chlorophyll fluorescence was low at all sites and water temperatures ranged from 20.5 to 24 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and oxygenated to well-oxygenated throughout. Chlorophyll fluorescence was low at all sites and water temperatures ranged from 19.9 to 22.3 °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