

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

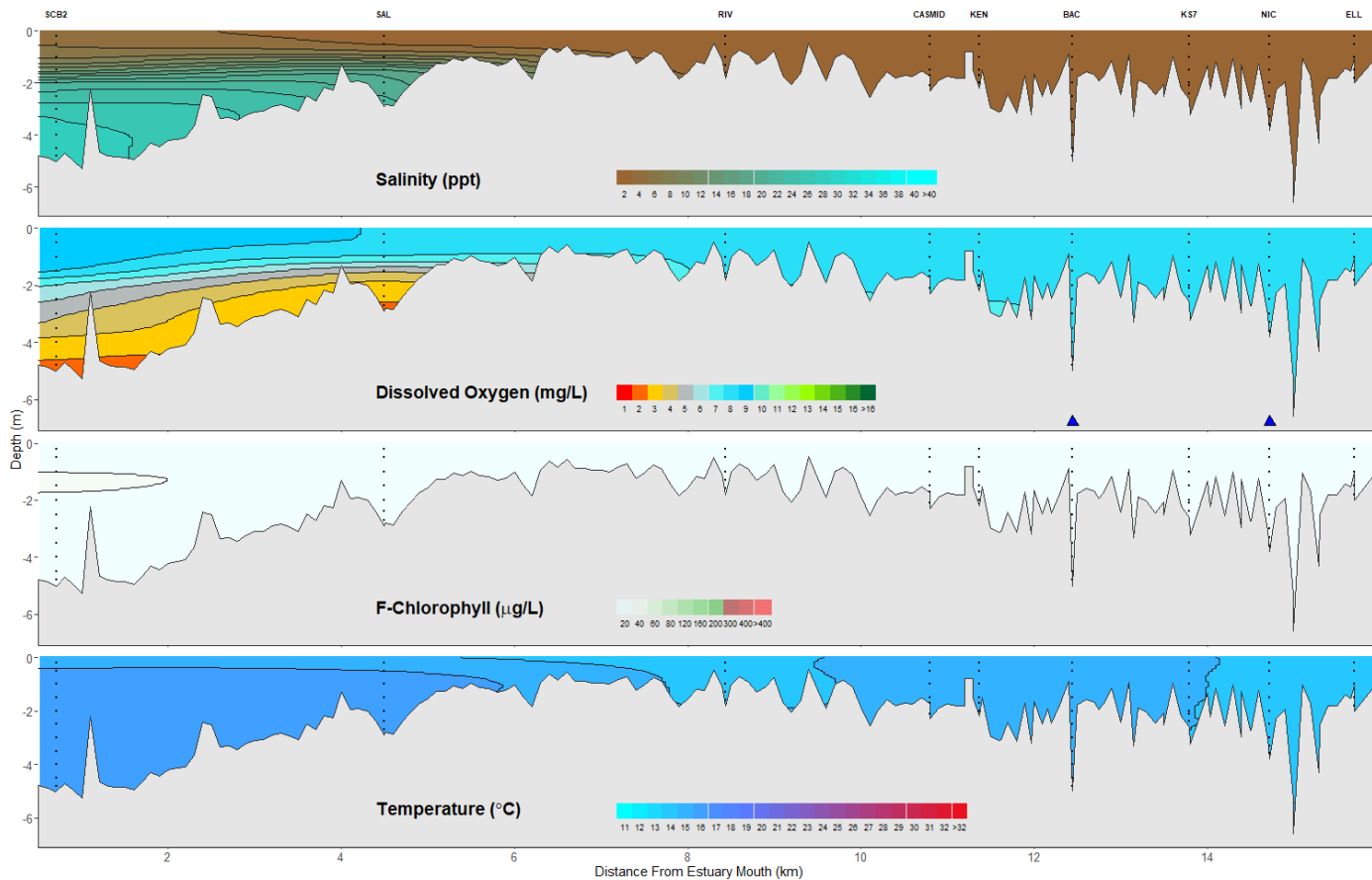
Canning Estuary and Lower Canning River

12 August 2025

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Canning Estuary and Lower Canning River - Water Quality Profiles – 12 August 2025



Date: 12 August 2025

Weather & tide conditions: Conditions were overcast with a variable breeze of up to 2.9 knots. The predicted tides at Barrack St were 0.84 m at 5:30 am (low tide) and 1.06 m at 12:52 pm (high tide) and 0.80m at 8:06 pm (2nd low tide). Perth recorded 38.2 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

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 at SCB2, fresh over brackish at SAL, and fresh from RIV to CASMID. Waters were oxygenated or well oxygenated except for bottom waters at SCB2 and SAL which were low in oxygen. Chlorophyll fluorescence was low. Water temperatures ranged from 13.8 to 15.8°C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and well oxygenated, with low chlorophyll fluorescence. Water temperatures ranged from 13.9 to 14.3 °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