



Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

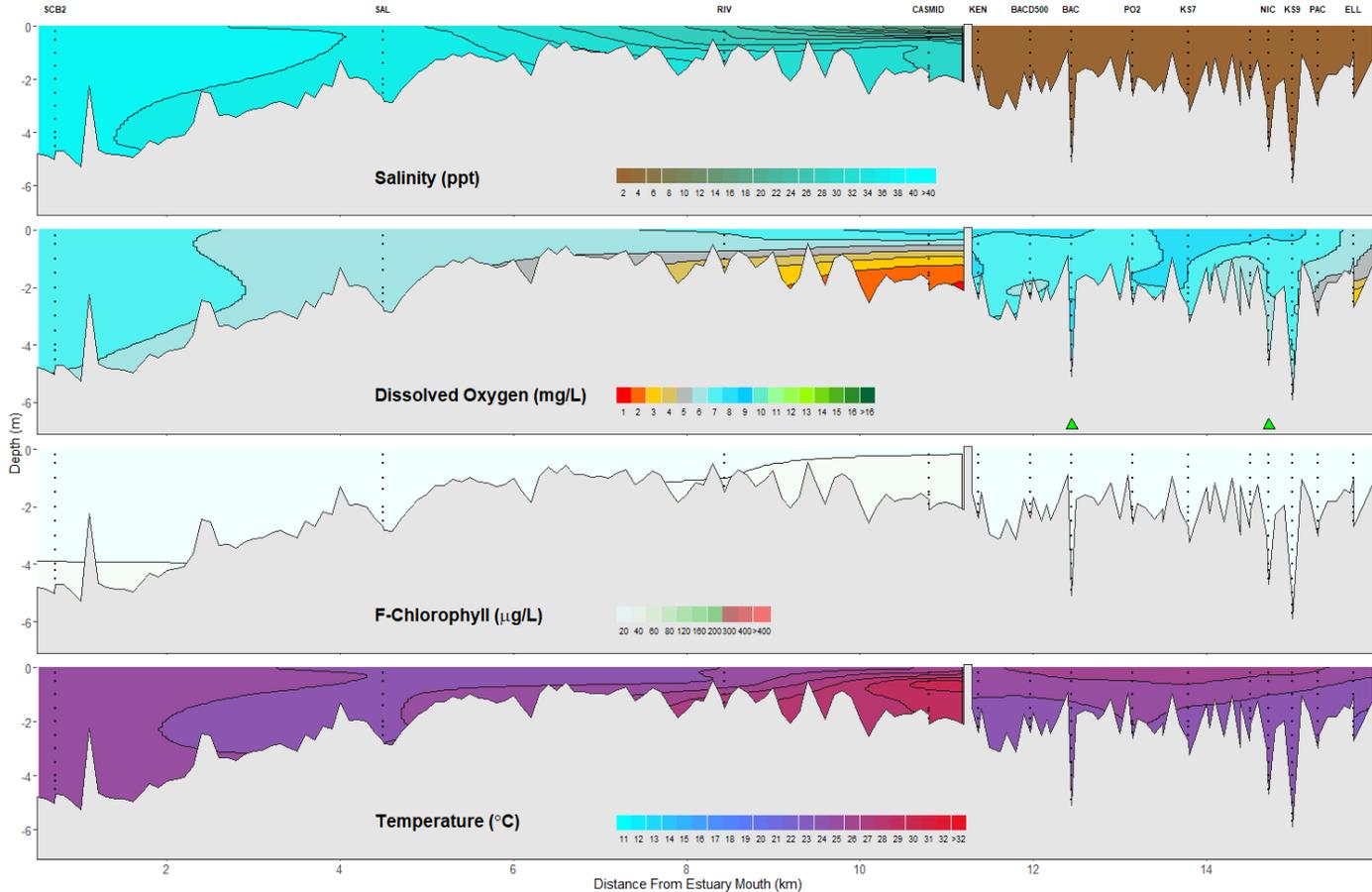
Canning Estuary and Lower Canning River

4 March 2026

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Canning Estuary and Lower Canning River - Water Quality Profiles – 4 March 2026



Date: 4 March 2026

Weather & tide conditions: Conditions were clear with a south easterly breeze of up to 4.5 knots. The predicted tides at Barrack St were 0.74 m at 7:35 am (low tide) and 0.93 m at 1:39 pm (high tide). Perth recorded 3.6 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 hypersaline at SCB2 and saline elsewhere, with brackish surface waters at CASMID. Water were oxygenated to well-oxygenated, with low oxygen bottom waters at RIV and hypoxic bottom waters at CASMID. Chlorophyll fluorescence was low and water temperatures ranged from 23.9 to 29.2 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and waters were oxygenated to well-oxygenated, with low oxygen bottom waters at ELL. Chlorophyll fluorescence was low and water temperatures ranged from 22.9 to 26.1 °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 >36
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