Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

Canning Estuary and Lower Canning River

11 November 2025

Prepared by

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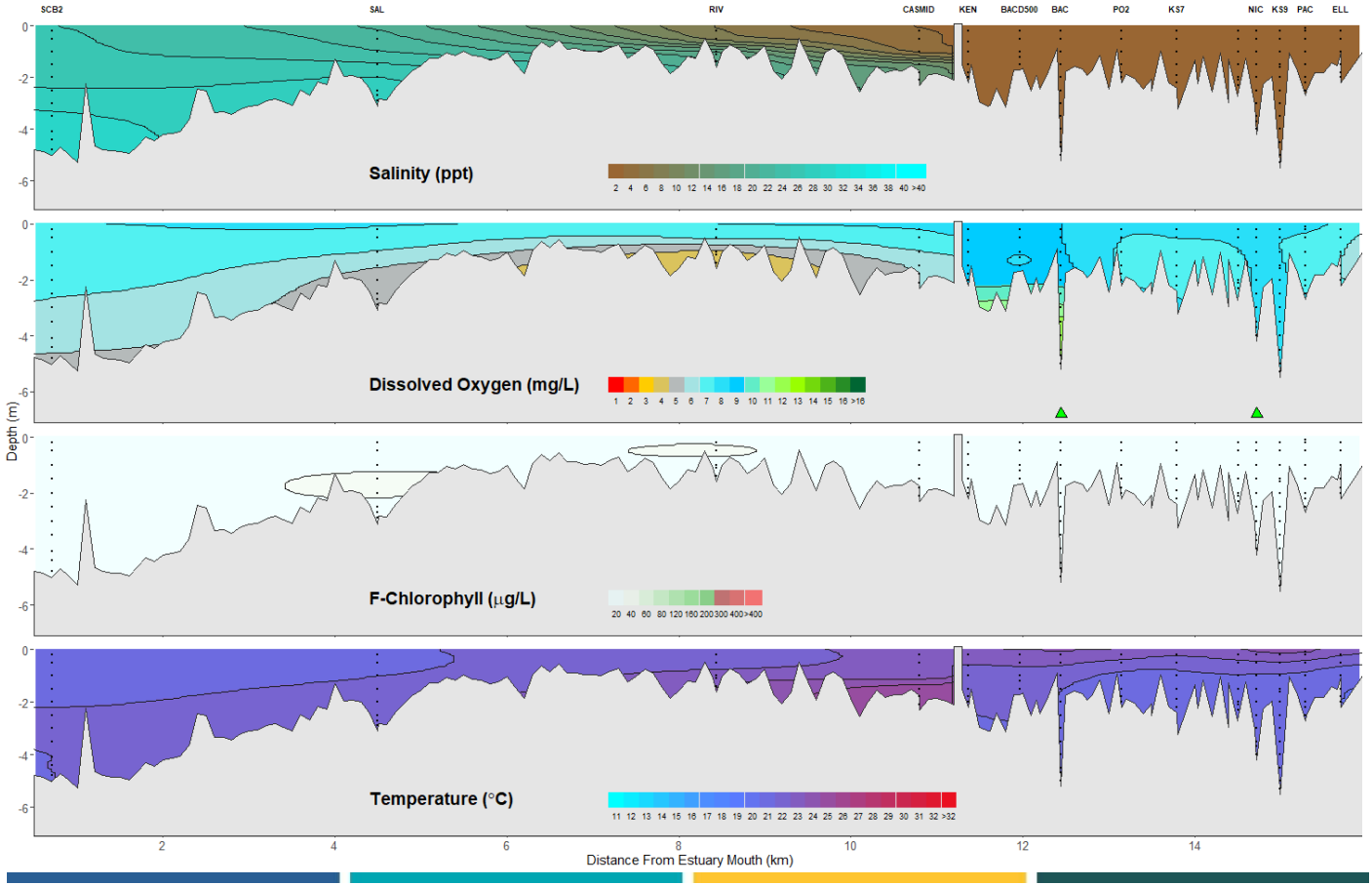
GOVERNMENT OF WESTERN AUSTRALIA

Biodiversity and Conservation Science

Canning Estuary and Lower Canning River - Water Quality Profiles – 11 November 2025



Date: 11 November 2025

Weather & tide conditions: Conditions were clear with a variable breeze up to 9.7 knots. The predicted tides at Barrack St were 0.47 m at 12:37 pm (low tide) and 0.96 m at 11:33 pm (high tide). Perth recorded 7.2 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 brackish over saline at SCB2 and SAL, brackish at RIV, and fresh over brackish at CASMID. Waters were oxygenated to well oxygenated except for bottom waters at RIV (low oxygen). Chlorophyll fluorescence was low and water temperatures ranged from 20.7 to 24.8 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and oxygenated to well oxygenated with low chlorophyll fluorescence throughout. Water temperatures ranged from 20 to 24.8 °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}

Recommended reference: Department of Biodiversity, Conservation and Attractions 2025. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 11 November 2025.* Rivers and Estuaries Science (https://www.dpaw.wa.gov.au/management/swan-canning-riverpark)