



Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

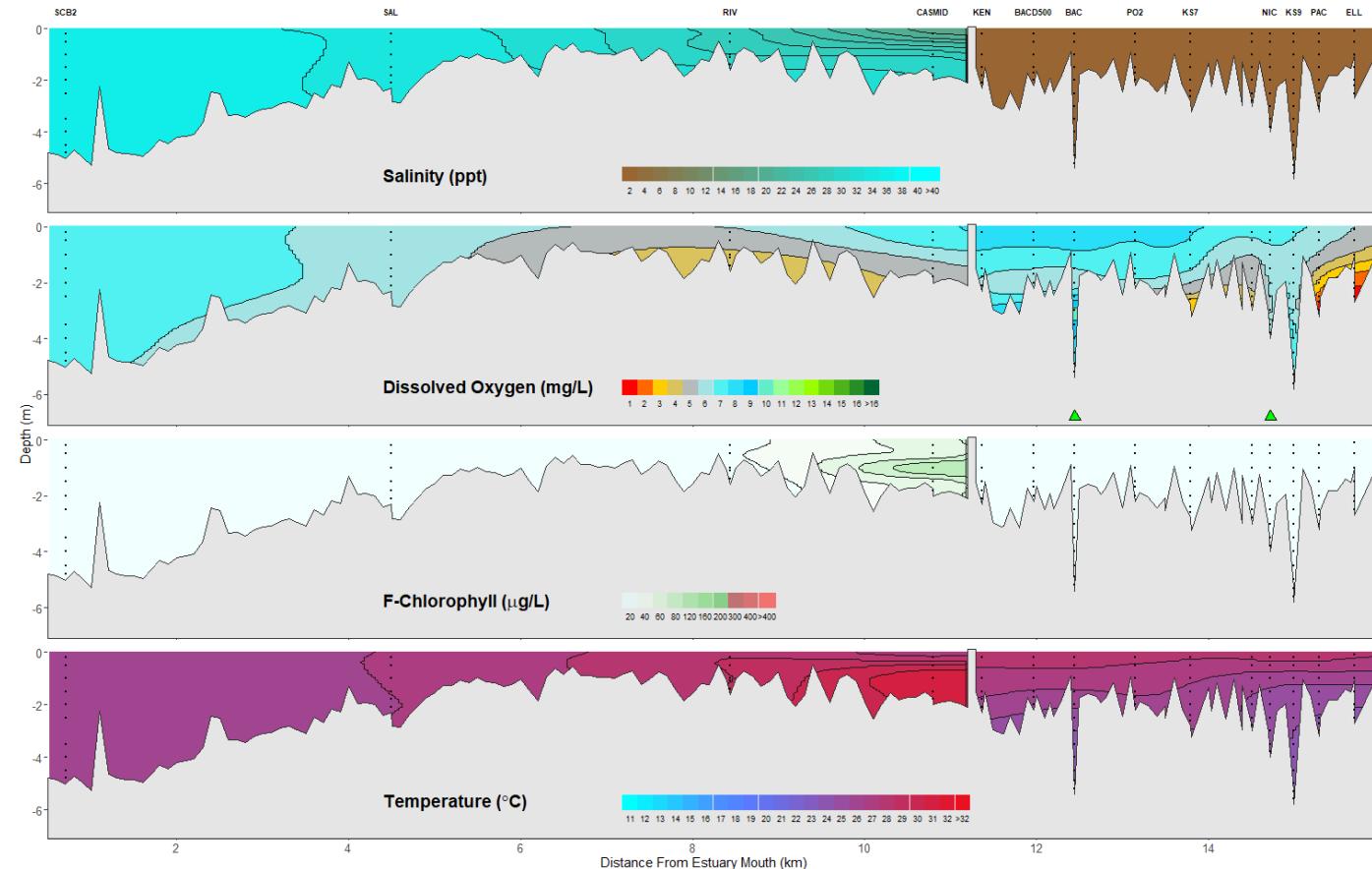
Canning Estuary and Lower Canning River

3 February 2026

Prepared by

Rivers and Estuaries Science
Biodiversity and Conservation Science
Department of Biodiversity, Conservation and Attractions

Canning Estuary and Lower Canning River - Water Quality Profiles – 3 February 2026



Date: 3 February 2026

Weather & tide conditions: Conditions were clear with a variable breeze of up to 8.9 knots. The predicted tide at Barrack St were 0.61m at 9:32 am (low tide). Perth recorded no 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 from SCB2 to RIV and brackish over saline at CASMID. Waters were oxygenated to well-oxygenated, except for bottom waters of RIV which were low in oxygen. Chlorophyll fluorescence was low, with moderate levels at CASMID. Water temperatures ranged from 25.2 to 30.7 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and waters were oxygenated to well-oxygenated, except for low oxygen bottom waters at KS7 and NIC and hypoxic bottom waters from PAC to ELL. Chlorophyll fluorescence was low throughout and water temperatures ranged from 23.2 to 28.3 °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