



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
Conservation Science

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Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

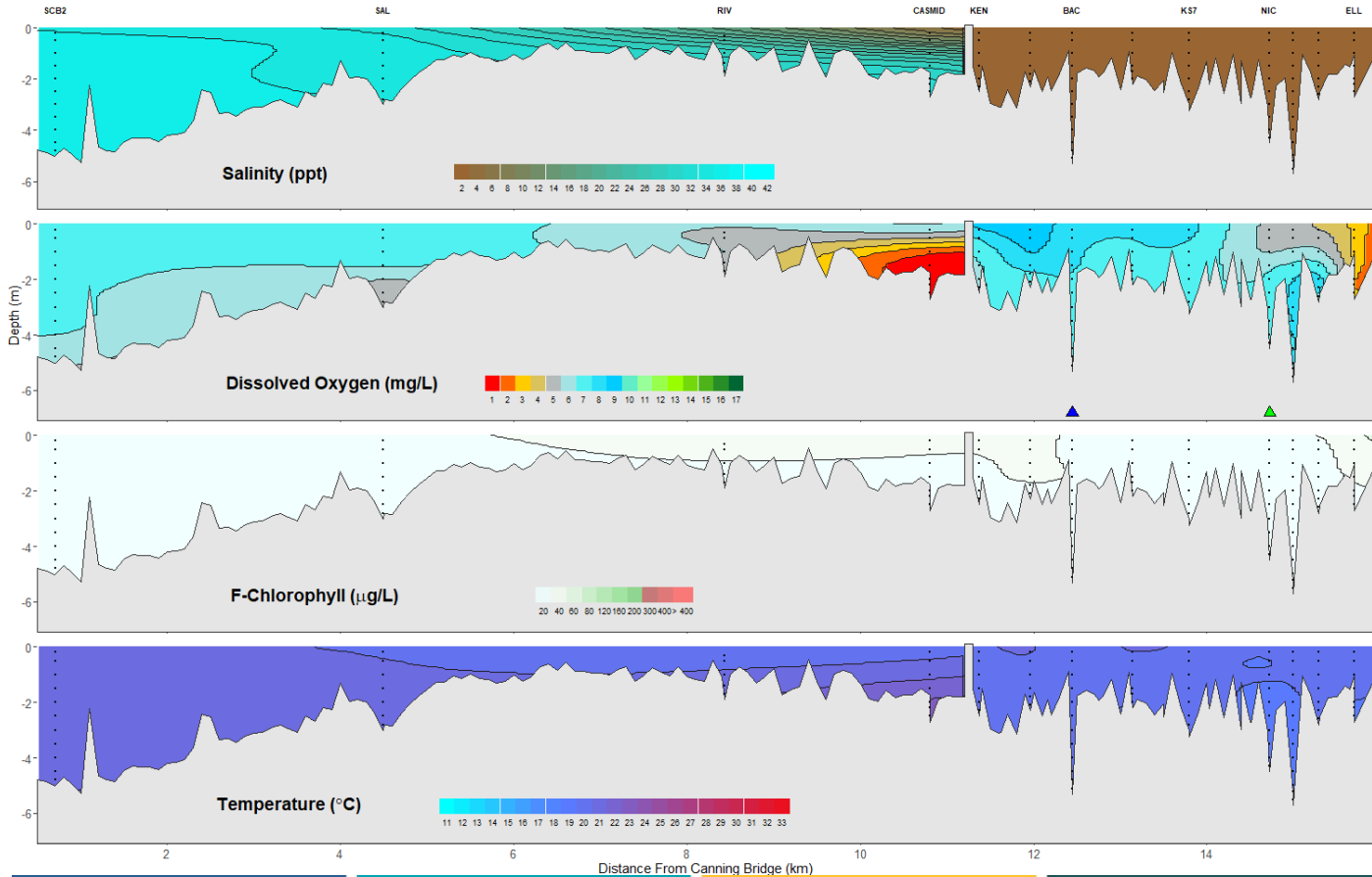
Canning Estuary and Lower Canning River

12th April 2023

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Canning Estuary and Lower Canning River - Water Quality Profiles - 12th April 2023



Date: 12th April 2023

Weather & tide conditions: Conditions were overcast with variable breeze of up to 3.6 knots. The predicted tides at Barrack St were 0.63 m at 2:21 am (low tide) and 1.2 m at 2:59 pm (high tide). Perth recorded 11.4 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd oxygenation plant was operable and provided oxygen in the 24 hours prior to sampling, whereas the Bacon St plant was operable but not triggered to provide oxygen.

Canning Estuary (SCB2 to CASMID): Waters were saline at SCB2 and SAL, and brackish over saline from SHELL to CASMID. Waters were oxygenated to well oxygenated throughout apart from bottom waters of CASMID which were anoxic. Chlorophyll fluorescence was low, except for a moderate signal detected within the water column at RIV. Water temperatures ranged from 18.9 °C to 22.5 °C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh, and waters were oxygenated to well oxygenated throughout except at ELL which was low in oxygen. Chlorophyll fluorescence was low throughout, and water temperatures ranged from 18.8 °C to 20 °C at the time of sampling.

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