



Department of Biodiversity,
Conservation and Attractions



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Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

Canning Estuary and Lower Canning River

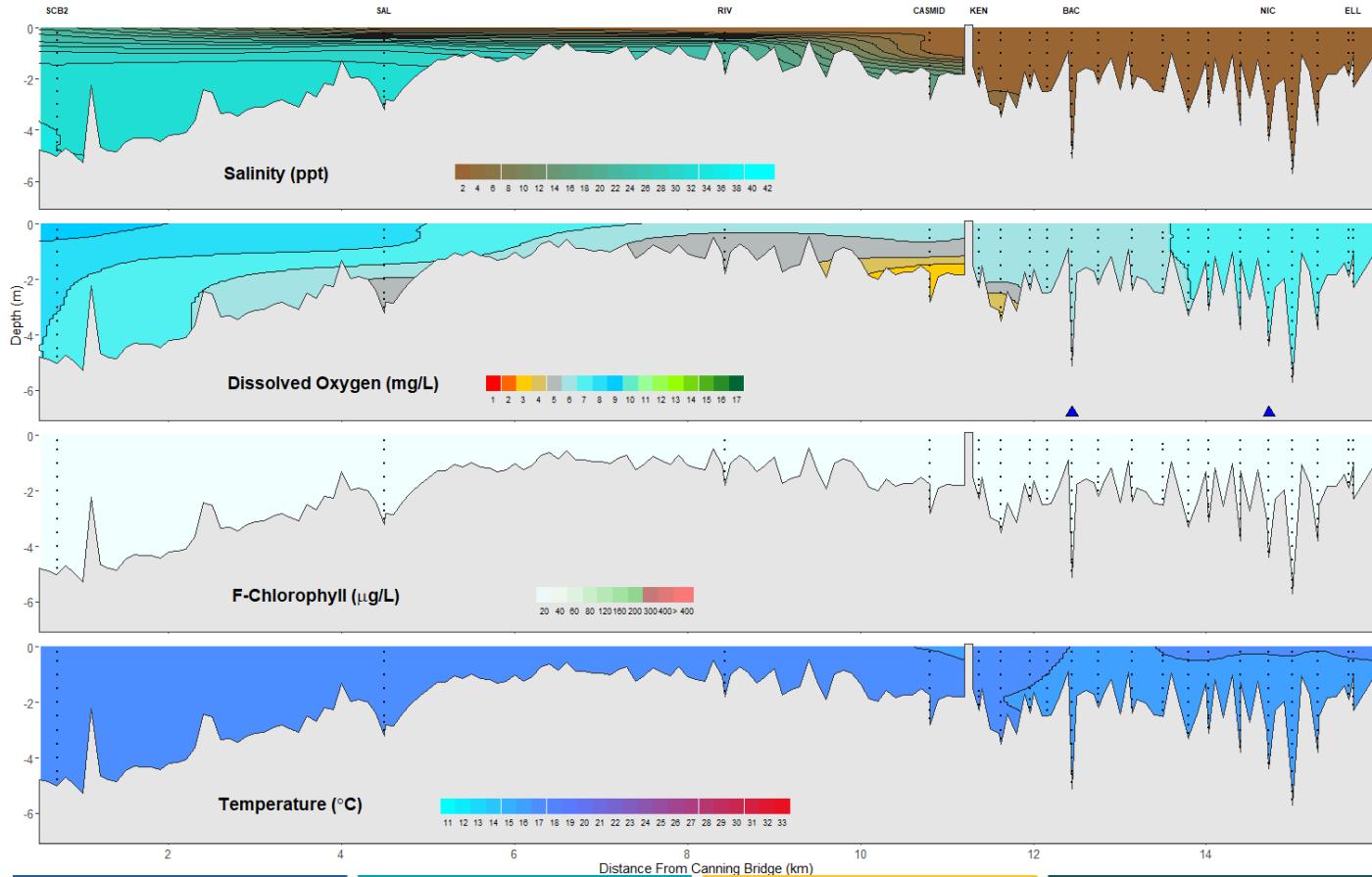
21 June 2022

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Canning Estuary and Lower Canning River - Water Quality Profiles – 21 June 2022





Date: 21 June 2022

Weather & tide conditions: Conditions were overcast with a slight north easterly breeze of up to 4 knots. The predicted tides at Barrack St were 1.6 m at 11:54 am (high tide) and 0.88 m at 11:42 pm (low tide). Perth recorded 18.4 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd and Bacon St oxygenation plants were operable but not to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): Waters were brackish over saline from SCB2 to SAL and brackish from RIV to CASMID. Waters were oxygenated or well oxygenated throughout, except for bottom waters at CASMID which were low in oxygen. Chlorophyll fluorescence was low and water temperatures ranged from 15.8 to 17.2 °C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and waters were oxygenated or well oxygenated throughout, except for bottom waters at KENU300 which were low in oxygen. Chlorophyll fluorescence was low and water temperatures ranged from 15.7 to 16.3 °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 (no/low flow): low < 50 µg L⁻¹, moderate 50-150 µg L⁻¹, high 150-400 µg L⁻¹, extreme > 400 µg L⁻¹