



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

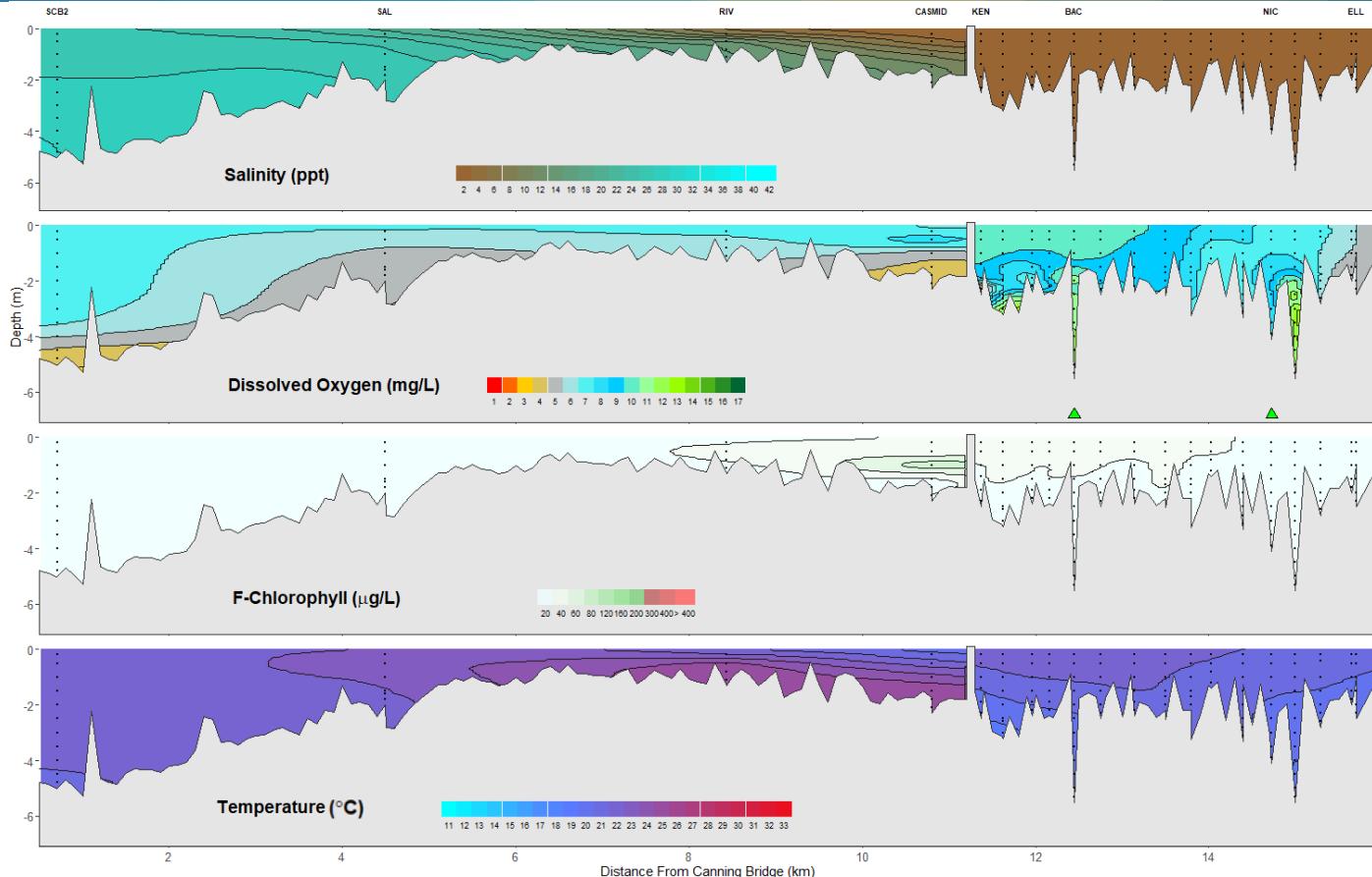
Canning Estuary and Lower Canning River

8th November 2022

Prepared by

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Canning Estuary and Lower Canning River - Water Quality Profiles - 8th November 2022





Date: 8th November 2022

Weather & tide conditions: Conditions were overcast with a predominantly south easterly breeze of up to 7.5 knots. The predicted tides at Barrack St were 0.59 m at 7:50 am (low tide) and 1.07 m at 10:43 pm (high tide). Perth recorded 0.6 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were both operating in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): Waters were saline at SCB2, brackish over saline at SAL, brackish at RIV, and fresh over brackish at CASMID. Waters were oxygenated or well oxygenated throughout, except at the bottom waters of SCB2 and CASMID, where oxygen was low. Chlorophyll fluorescence was low throughout, and water temperatures ranged from 20.4 to 24.7°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 at the bottom waters of KEN, where oxygen was low. Chlorophyll fluorescence was low and water temperatures ranged from 18.8 to 21.6 °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 (mod/high flow): low < 60 µg L⁻¹, moderate 60-160 µg L⁻¹, high 160-400 µg L⁻¹, extreme > 400 µg L⁻¹