



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

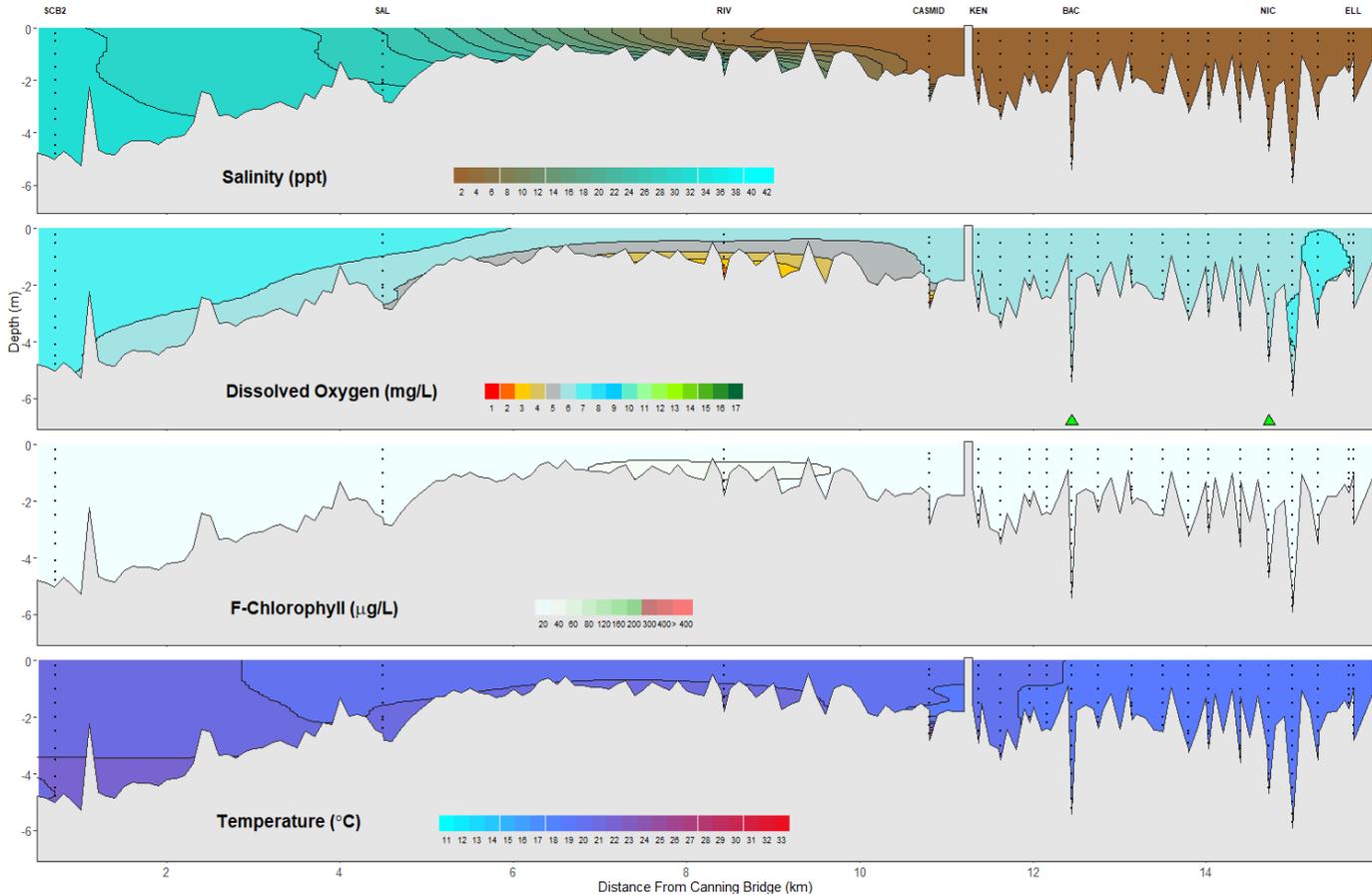
Canning Estuary and Lower Canning River

10th November 2020

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Canning Estuary and Lower Canning River- Water Quality Profiles – 10th November 2020



Date: 10th November 2020

Weather & tide conditions: Conditions were cloudy with periods of heavy rain and a variable breeze of up to 13 knots. The predicted tides at Barrack St was 0.86 m at 5:19 am (high tide), 0.59 m at 3:07 pm (low tide) and 0.81 m at 10:37 pm (second high tide). Gosnells recorded 31.4 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd and Bacon St oxygenation plants were triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline from SCB2 to SAL and fresh over brackish from RIV to CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were hypoxic at RIV and CASMID. Chlorophyll fluorescence was highest at RIV indicating higher microalgal activity in that area. Water temperature ranged from 19.0 to 24.7 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh, waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 18.3 to 19.3 °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 >6mg/L, oxygenated >4-6mg/L, low oxygen >2-4mg/L, hypoxic 0.5-2mg/L, anoxic <0.5mg/L