



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

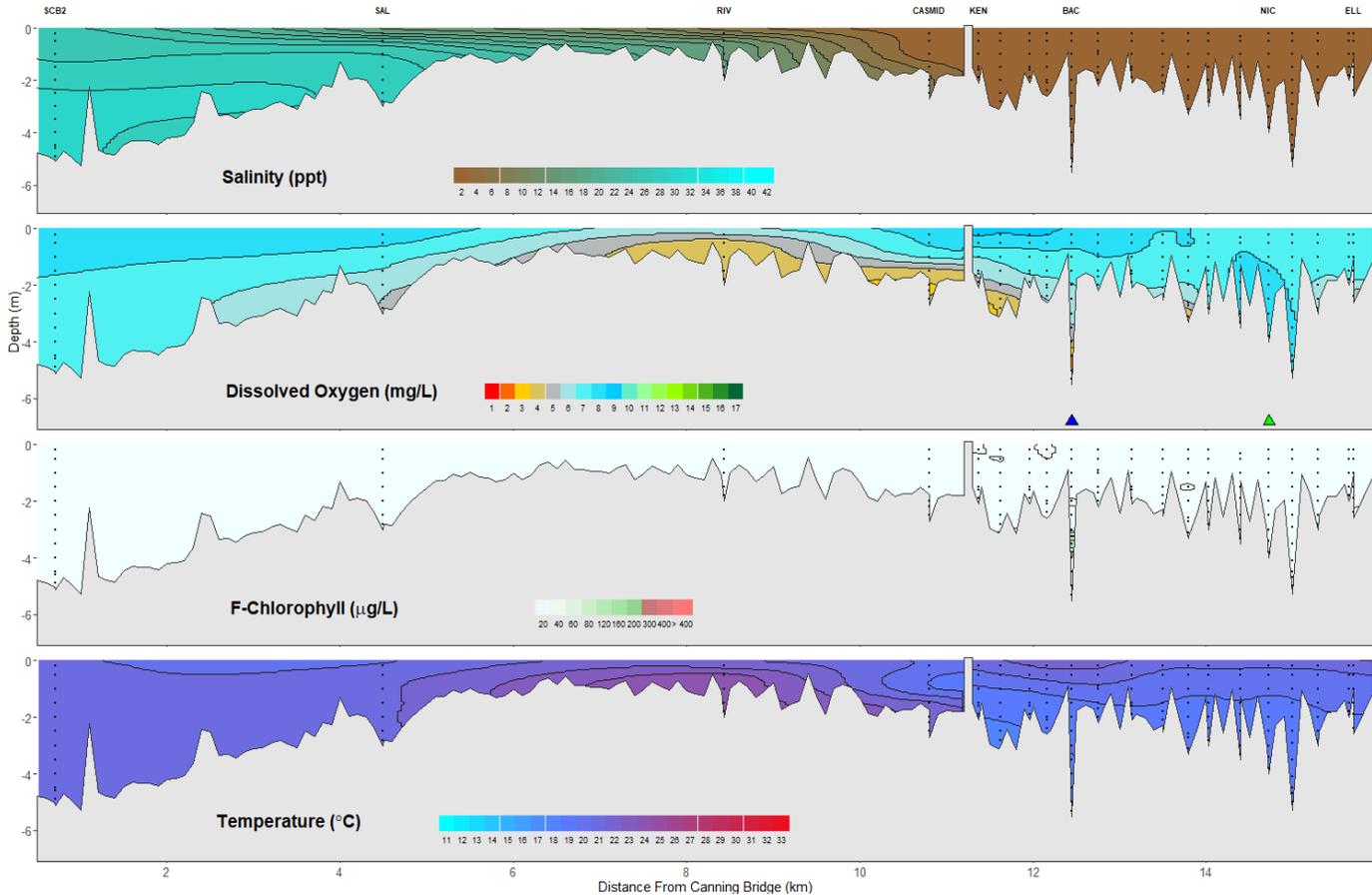
Canning Estuary and Lower Canning River

13th October 2020

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Canning Estuary and Lower Canning River- Water Quality Profiles- 13th October 2020



Date: 13th September 2020

Weather & tide conditions: Conditions were partly cloudy with a variable breeze of up to 3 knots. The predicted tides at Barrack St were 0.95 m at 6:36 am (high tide), 0.51 m at 2:45 pm (low tide) and 0.77 m at 9:52 pm (second high tide). Gosnells recorded 32.0 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline at SCB2, brackish over saline at SAL, brackish at RIV and fresh at CASMID. Waters were oxygenated or well oxygenated, except at RIV and CASMID where bottom waters were low in oxygen. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 19.2 to 23.6 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh. Waters were oxygenated or well oxygenated, except bottom waters at KS7 and KENU300 that were low in oxygen and BAC which were hypoxic. Chlorophyll fluorescence was highest at BAC indicating higher microalgal activity in that area. Water temperature ranged from 17.4 to 21.8 °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