



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

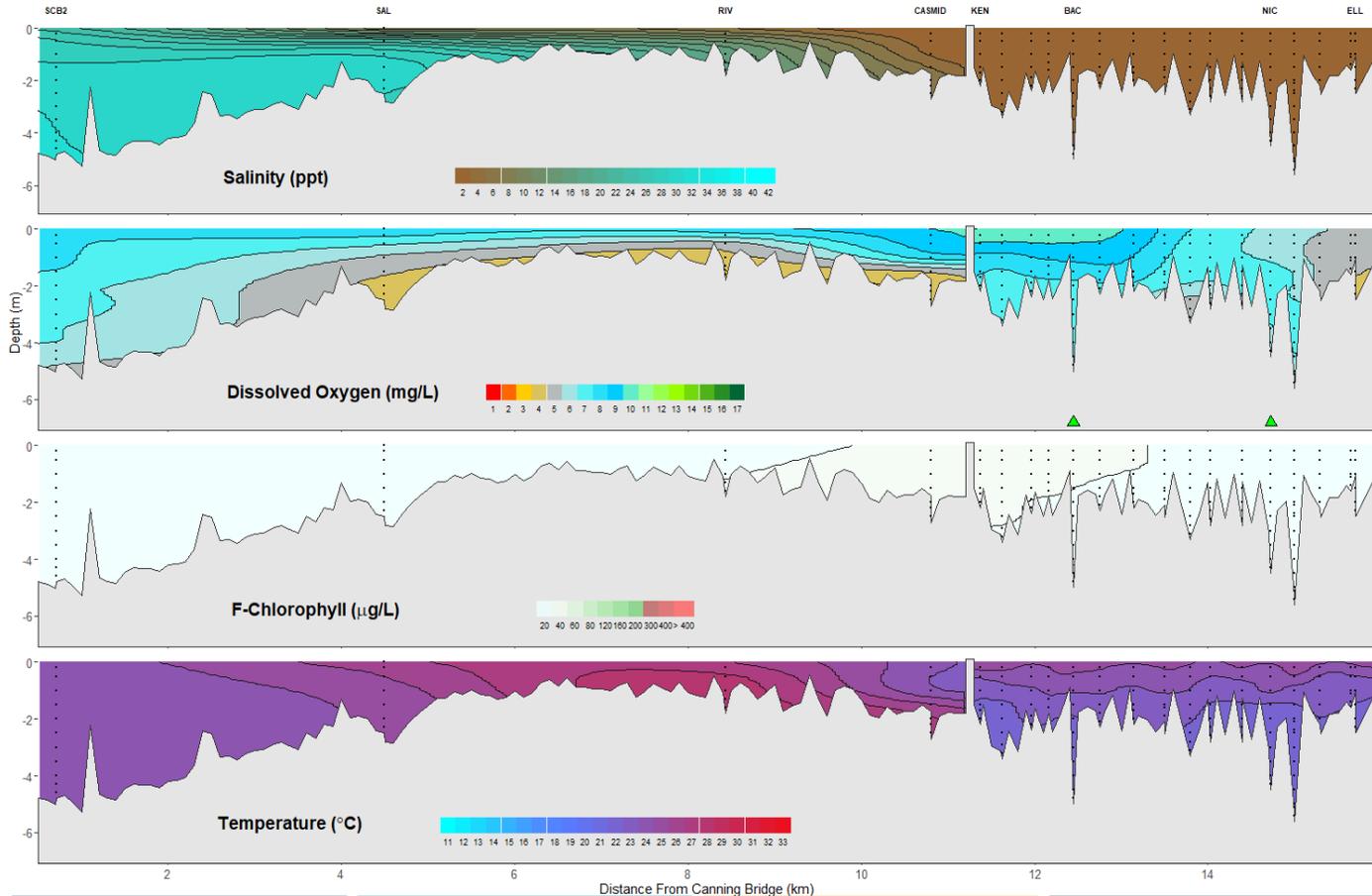
Canning Estuary and Lower Canning River

24th November 2020

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Canning Estuary and Lower Canning River- Water Quality Profiles – 24th November 2020



Date: 24th November 2020

Weather & tide conditions: Conditions were clear with a variable light breeze of up to 4 knots. The predicted tides at Barrack St were 0.64 m at 1:25 pm (low tide) and 0.86 m at 9:32 pm (high tide). Gosnells recorded no 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 at SCB2, brackish over saline at SAL, brackish at RIV and fresh over brackish at CASMID. Waters were oxygenated or well oxygenated except bottom waters at RIV and CASMID which were low in oxygen. Chlorophyll fluorescence was highest at SAL indicating higher microalgal activity in that area. Water temperature ranged from 22.7 to 27.7 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh. Waters were oxygenated or well oxygenated except for bottom waters at KS7 and ELL which were low in oxygen. Chlorophyll fluorescence was highest at BAC indicating higher microalgal activity in that area. Water temperature ranged from 21.0 to 24.9 °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