



Department of Biodiversity,
Conservation and Attractions



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Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

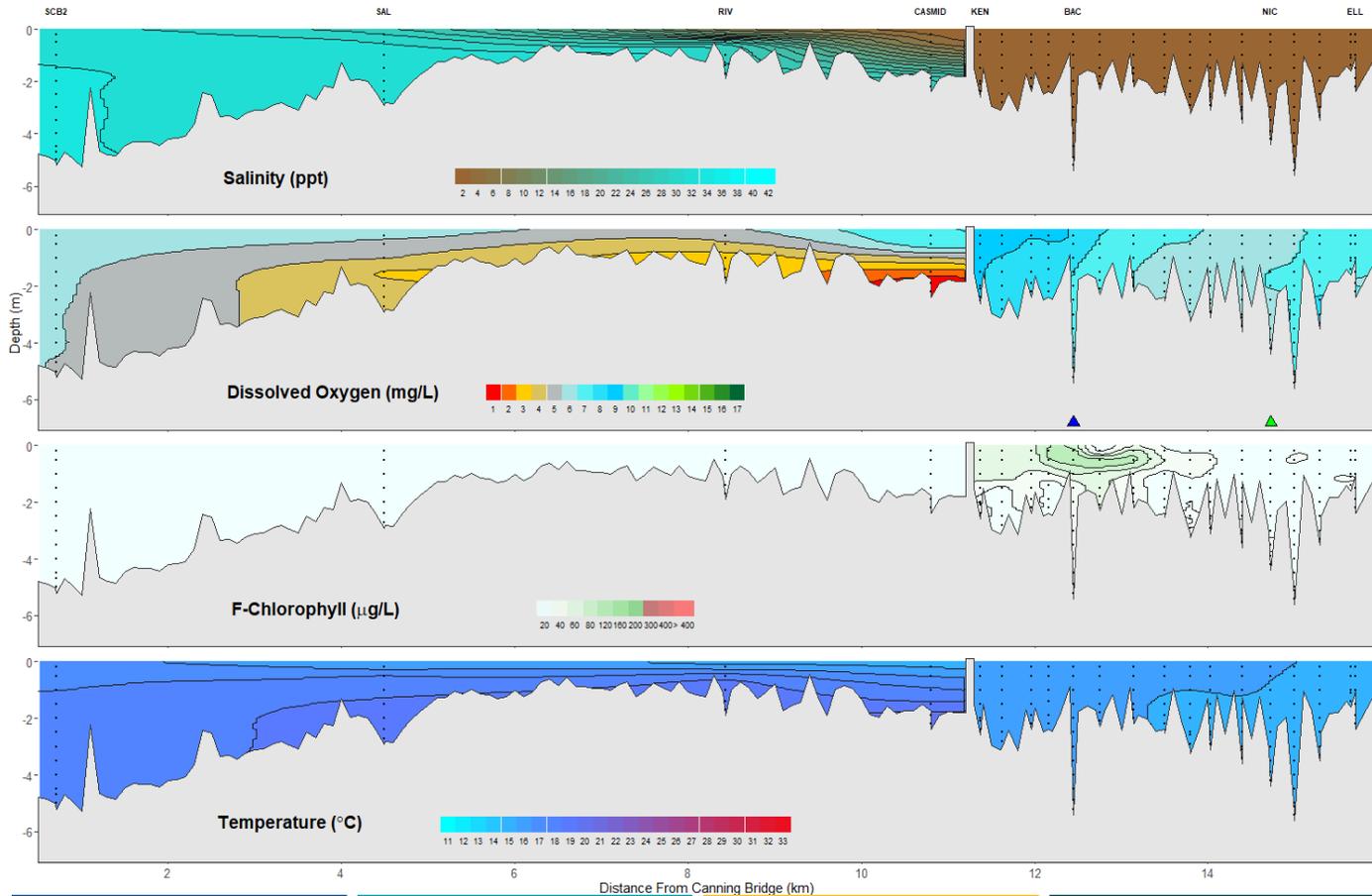
Canning Estuary and Lower Canning River

25th May 2021

Prepared by

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Canning Estuary and Lower Canning River - Water Quality Profiles – 25th May 2021



Date: 25th May 2021

Weather & tide conditions: Conditions were overcast with a light easterly breeze of up to 3 knots. The predicted tides at Barrack St were 0.92 m at 2:04 am (low tide), 1.25 m at 10:24 am (high tide) and 0.76 m at 7:57 pm (second low tide).

NB: Reliable rainfall data for this catchment was not available.

Oxygenation: The Bacon St oxygenation plant was operational but not triggered to provide oxygen and the Nicholson Rd oxygenation plant was 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, brackish over saline at RIV and fresh over saline at CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen from SAL to RIV and anoxic at CASMID. Chlorophyll fluorescence was highest at RIV indicating higher microalgal activity in that area. Water temperature ranged from 15.0 to 19.7 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and waters were oxygenated or well oxygenated. Chlorophyll fluorescence was highest at BAC indicating higher microalgal activity in that area. Water temperature ranged from 14.5 to 15.7 °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

Recommended reference: Department of Biodiversity, Conservation and Attractions 2021. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 25th May 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)