



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

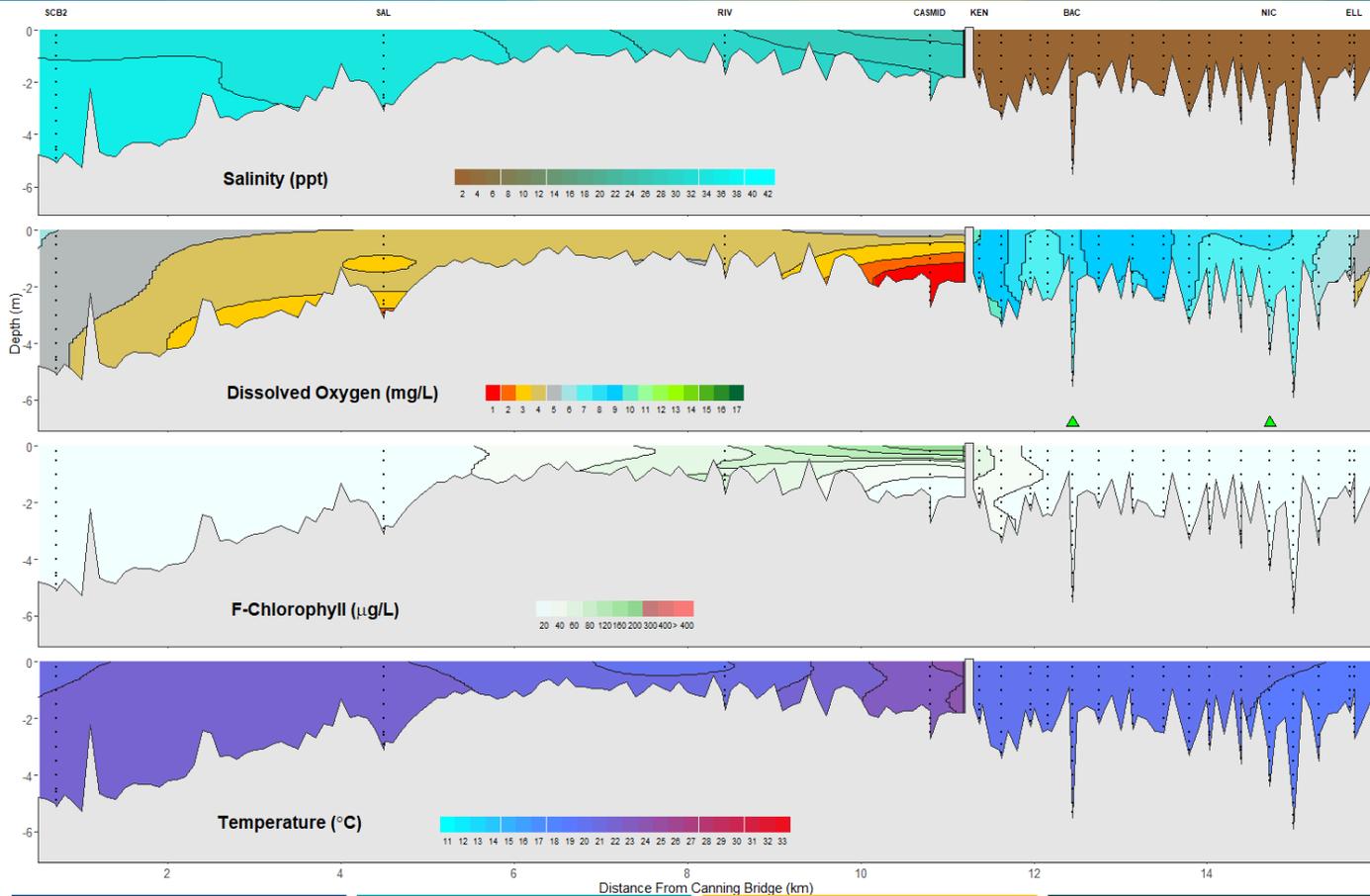
Canning Estuary and Lower Canning River

28th April 2021

Prepared by

Rivers and Estuaries Science
Biodiversity and Conservation Science
Department of Biodiversity, Conservation and Attractions

Canning Estuary and Lower Canning River - Water Quality Profiles – 28th April 2021



Date: 28th April 2021

NB: Monitoring delayed due to public holiday on 26 April 2021

Weather & tide conditions: Conditions were hazy with a light easterly breeze of up to 3 knots. The predicted tides at Barrack St were 0.86 m at 3:30 am (low tide), 1.22 m at 12:06 pm (high tide) and 0.71 m at 9:45 pm (second low tide).

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

Oxygenation: The Bacon St and Nicholson Rd 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. Surface waters were low in oxygen at SAL and RIV and bottom waters were low in oxygen at RIV, hypoxic at SAL and anoxic at CASMID. Chlorophyll fluorescence was elevated at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 19.3 to 23.9 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and waters were oxygenated or well oxygenated, except at ELL where bottom waters were low in oxygen. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 18.5 to 19.6 °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 28th April 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)