



Department of Biodiversity,
Conservation and Attractions



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Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

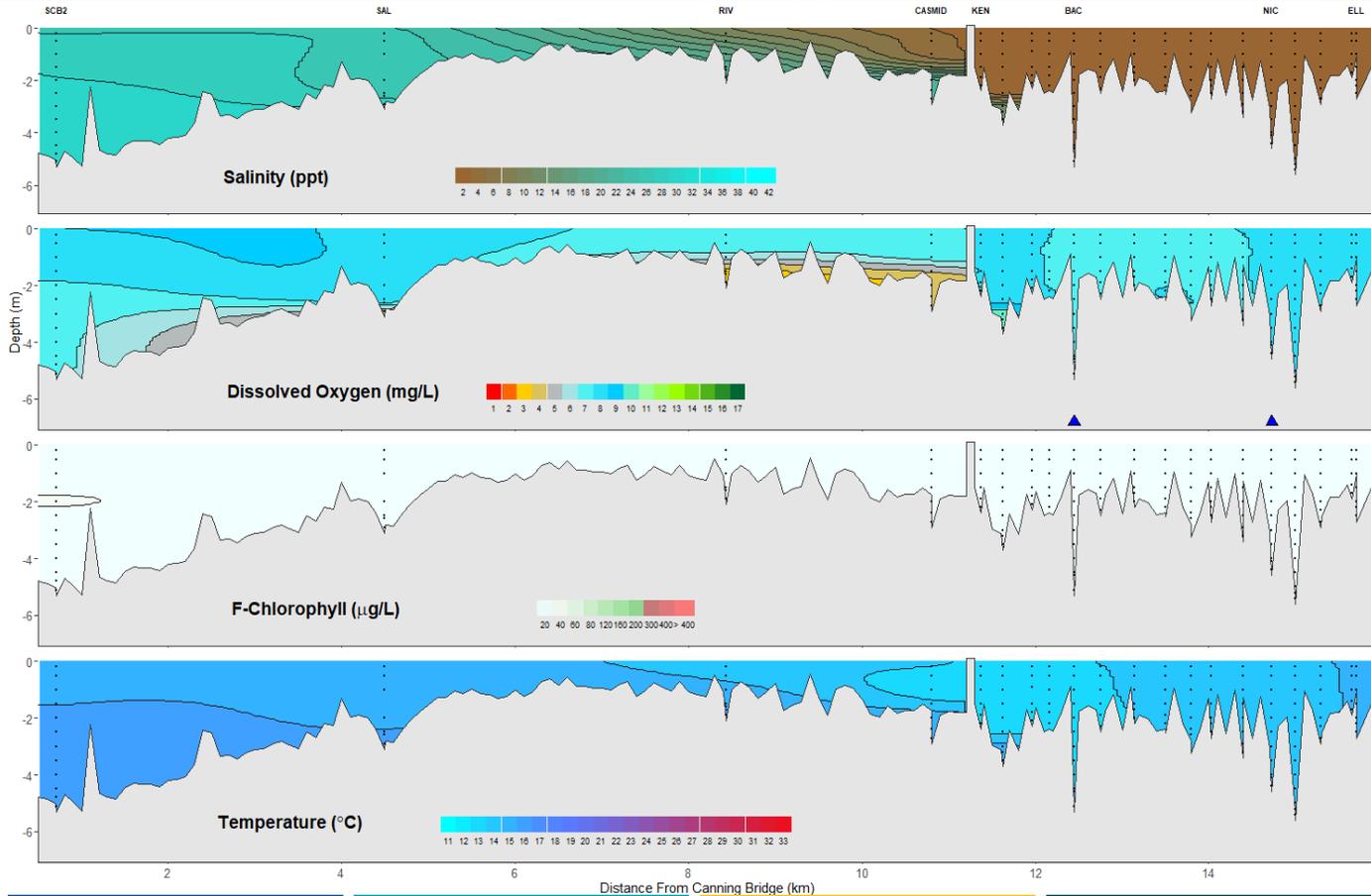
Canning Estuary and Lower Canning River

29th June 2021

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Canning Estuary and Lower Canning River - Water Quality Profiles – 29th June 2021



Date: 29th June 2021

Weather & tide conditions: Conditions were patchy with a light variable breeze of up to 3 knots. The predicted tides at Barrack St were 0.73 m at 12:13 am (low tide) and 1.18 m at 1:14 pm (high tide). Perth Airport recorded 23.2 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were not triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was saline between SCB2 and SAL, brackish at RIV and fresh over brackish at CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen from SAL to CASMID. Chlorophyll fluorescence was highest at SCB2 indicating higher microalgal activity in that area. Water temperature ranged from 12.6 to 15.2 °C.

Lower Canning River (upstream of KEN): The Lower Canning River was fresh at KEN, fresh over brackish at KENU300 and BAC and fresh from BACU300 to ELL. Waters were oxygenated or well oxygenated except bottom waters at BAC which were low in oxygen. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 12.3 to 14.6 °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 29th June 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)