



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

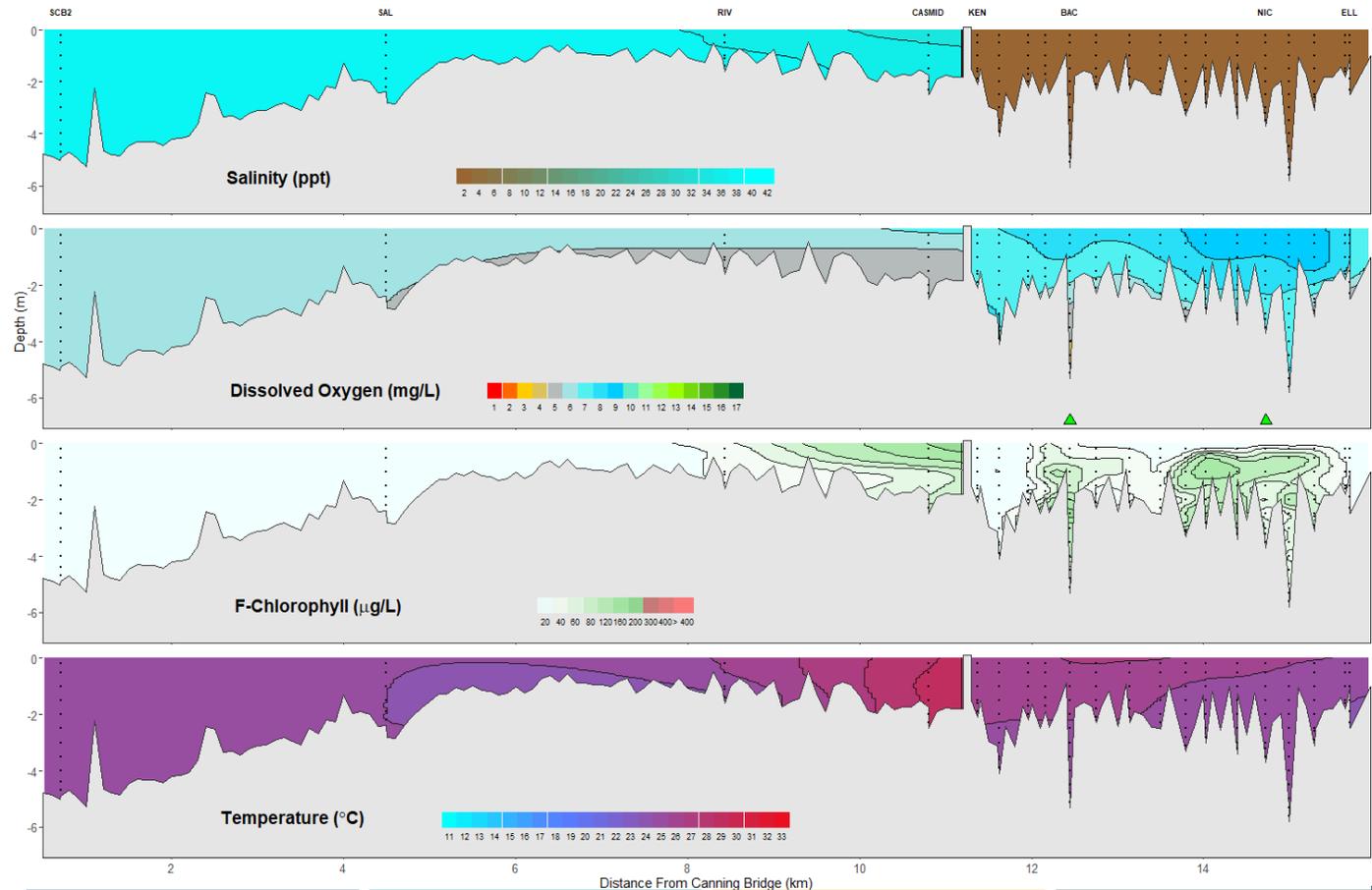
Canning Estuary and Lower Canning River

2nd February 2021

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Canning Estuary and Lower Canning River - Water Quality Profiles – 2nd February 2021



Date: 2nd February 2021

Weather & tide conditions: Conditions were clear with a predominantly easterly breeze of up to 3 knots. The predicted tides at Barrack St were 0.59 m at 07:06 am (low tide), 0.81 m at 2:04 pm (high tide), 0.78 m at 5:24 pm (second low tide) and 0.85 m at 11:26 pm (second high tide). Gosnells recorded no rainfall during the week prior to sampling (Bureau of Meteorology).

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 and waters were oxygenated or well oxygenated. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 23.9 to 28.3 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and waters were oxygenated or well oxygenated except for bottom waters at BAC, KS7 and PAC which were low in oxygen. Chlorophyll fluorescence was highest at NICD200 indicating higher microalgal activity in that area. Water temperature ranged from 23.7 to 26.2 °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