



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

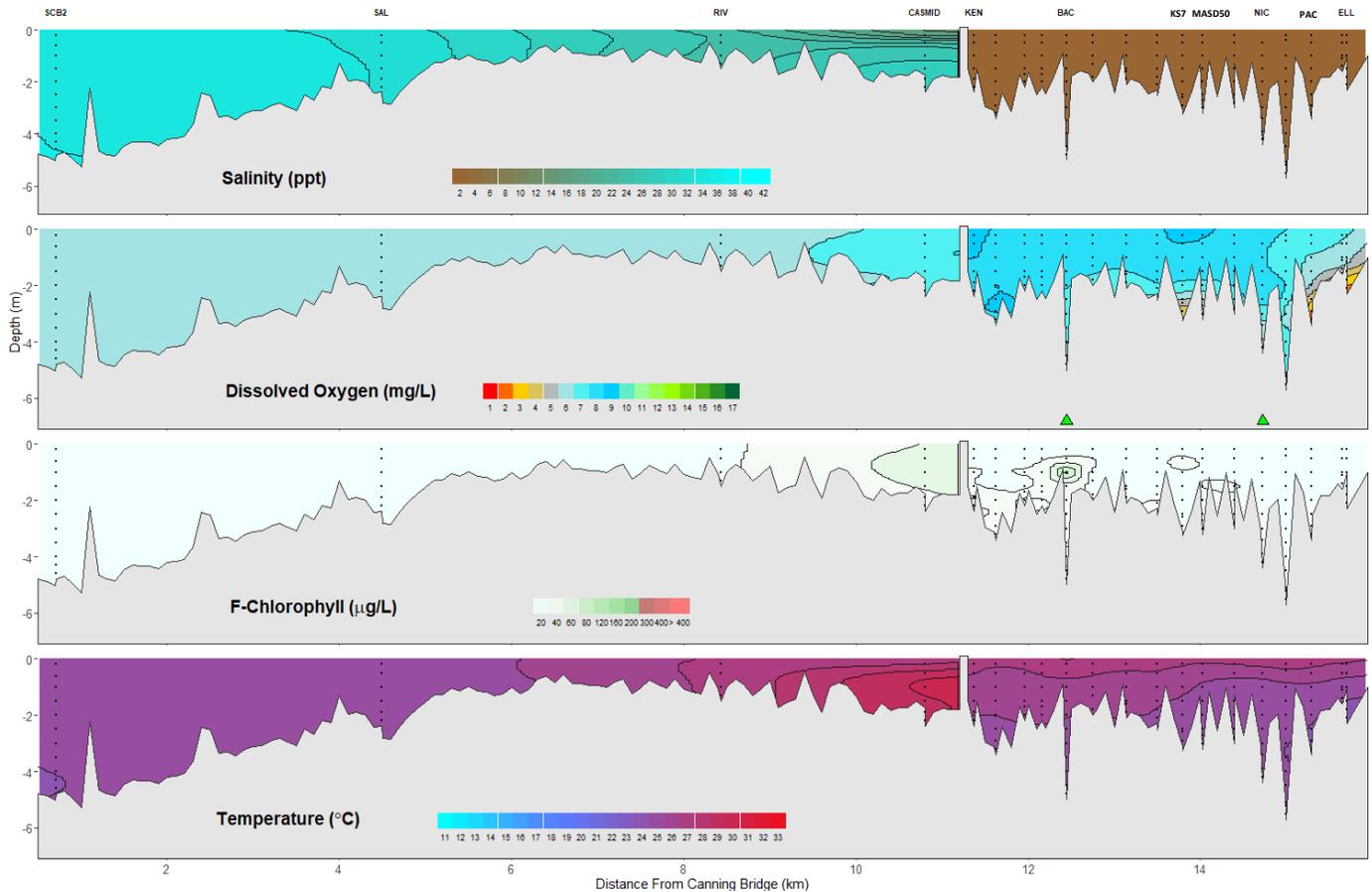
Canning Estuary and Lower Canning River

30th December 2020

Prepared by

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Canning Estuary and Lower Canning River - Water Quality Profiles - 30th December 2020



Date: 30th December 2020

Weather & tide conditions: Conditions were clear with a predominantly easterly breeze of up to 6 knots. The predicted tides at Barrack St were 0.48 m at 9:00 am (low tide) and 1.11 m at 23:00 pm (high tide). Gosnells recorded no rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St oxygenation plant and the Nicholson Rd oxygenation plant were both 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 and brackish between RIV and CASMID. Waters were oxygenated or well oxygenated. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 24.0 to 29.2 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen at KS7, MASD50 and ELL and hypoxic at PAC. Chlorophyll fluorescence was highest at BAC indicating higher microalgal activity in that area. Water temperature ranged from 23.3 to 27.3 °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