



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

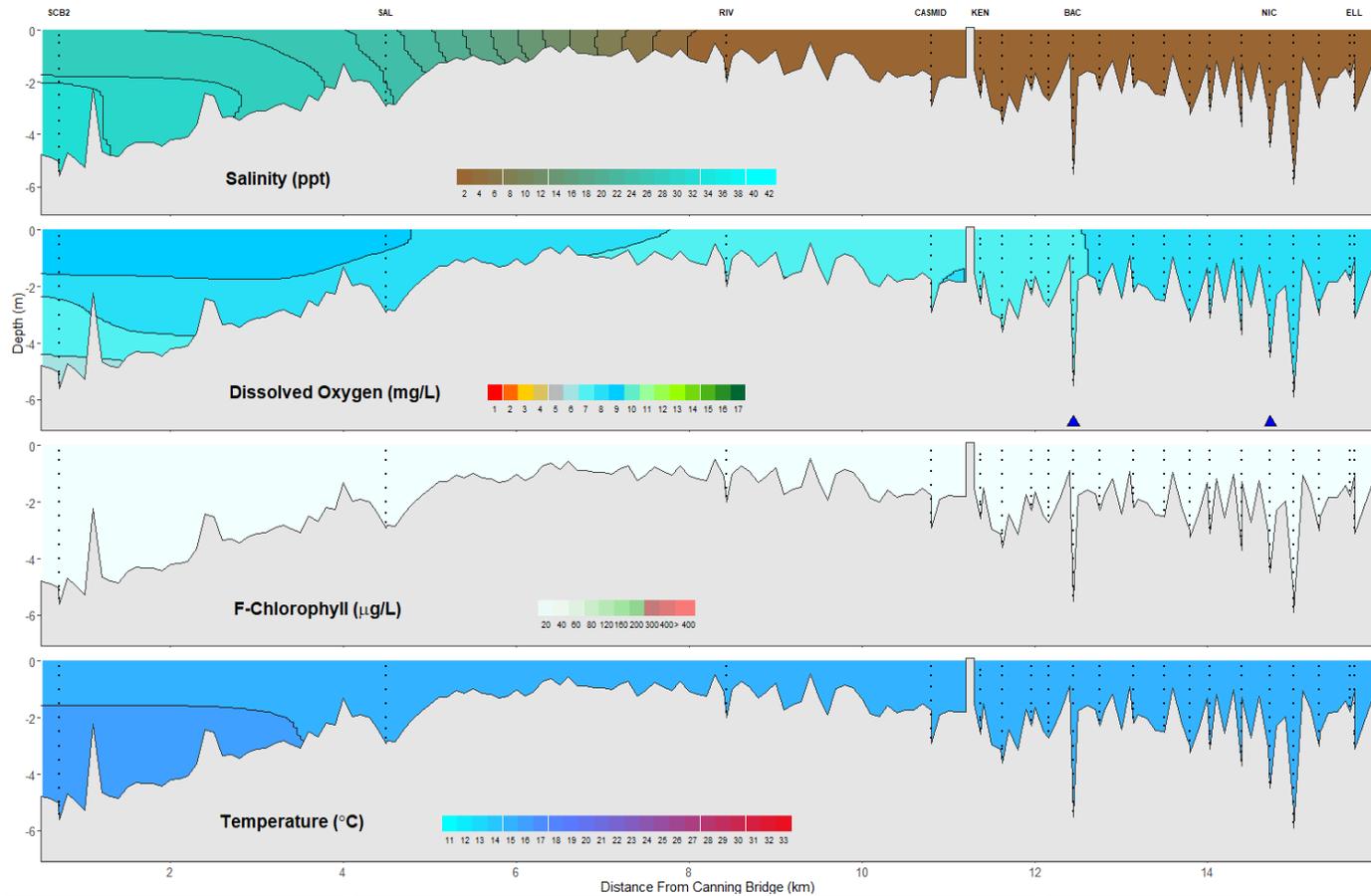
Canning Estuary and Lower Canning River

11th August 2020

Prepared by

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Canning Estuary and Lower Canning River- Water Quality Profiles- 11th August 2020



Date: 11th August 2020

Weather & tide conditions: Conditions were cloudy with a predominantly westerly breeze of up to 6.4 knots. The predicted tides at Barrack St were 0.95 m at 4:01 am (high tide) with a residual of +0.32 m and 0.72 m at 7:04 pm (low tide) with a residual of +0.08 m. Flow was observed at Kent St Weir. Reliable rainfall data was not available from the Gosnells weather station for the week prior to sampling (Bureau of Meteorology), however Jandakot received 33.2 mm in the week prior to sampling, all during the weekend just prior to sampling.

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

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline at SCB2, brackish at SAL and fresh at RIV and CASMID. Surface and bottom waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.5 to 15.8 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh, waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.3 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