



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**

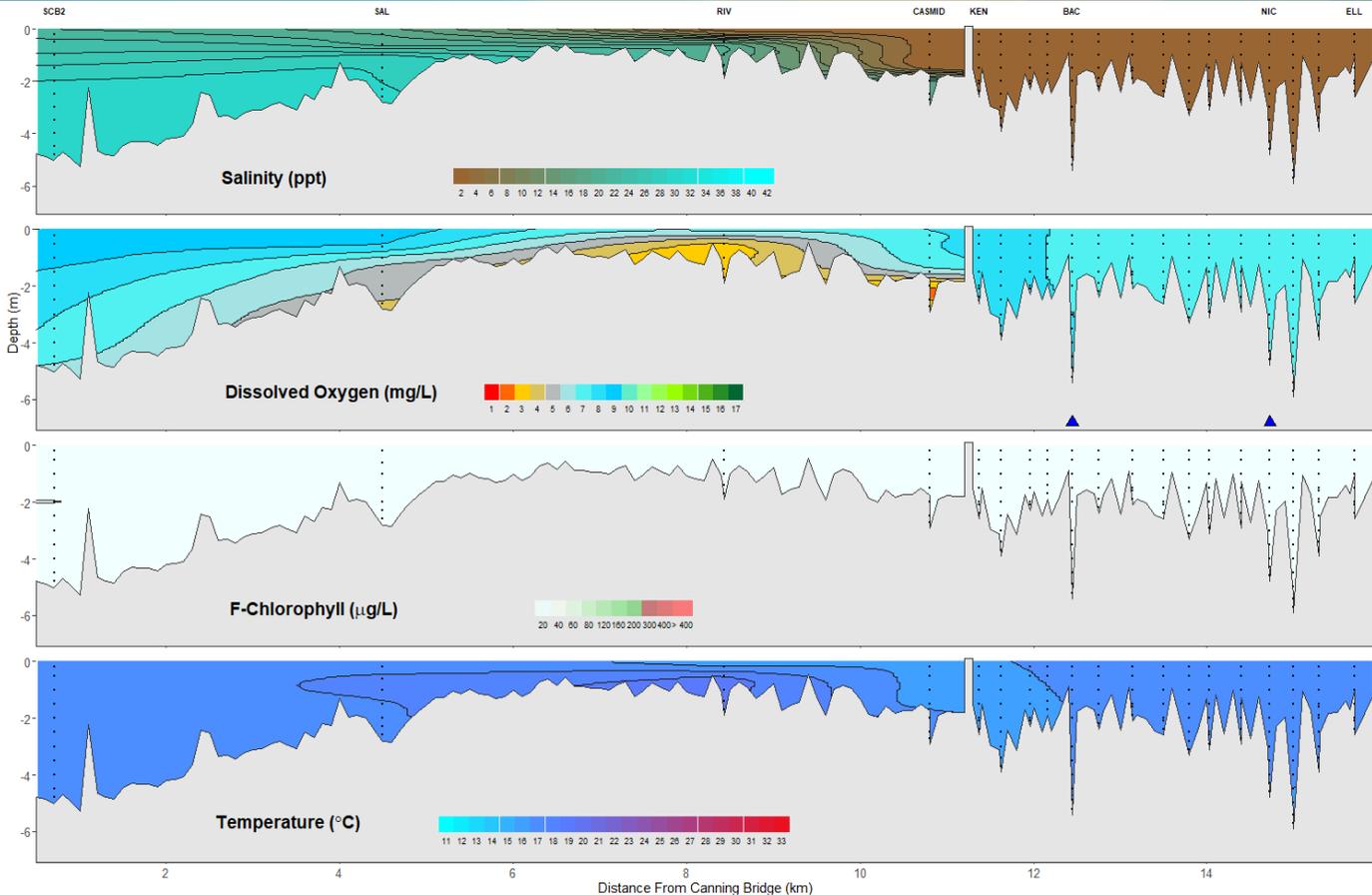
**Canning Estuary and Lower Canning River**

**28<sup>th</sup> July 2020**

**Prepared by**

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## Canning Estuary and Lower Canning River- Water Quality Profiles- 28<sup>th</sup> July 2020



Date: 28<sup>th</sup> July 2020

Weather & tide conditions: Conditions were overcast with a predominantly northerly breeze of up to 3 knots. The predicted tides at Barrack St were 1.0 m at 6:10 am (high tide) and 0.72 m at 6:49 pm (low tide). 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).

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 brackish over saline between SCB2 and SAL and fresh over brackish from RIV to CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen at RIV and CASMID. Chlorophyll fluorescence was highest at SCB2 indicating higher microalgal activity in this area. Water temperature ranged from 15.6 to 18.2 °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 14.6 to 16.4 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at [wir.water.wa.gov.au](http://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