



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

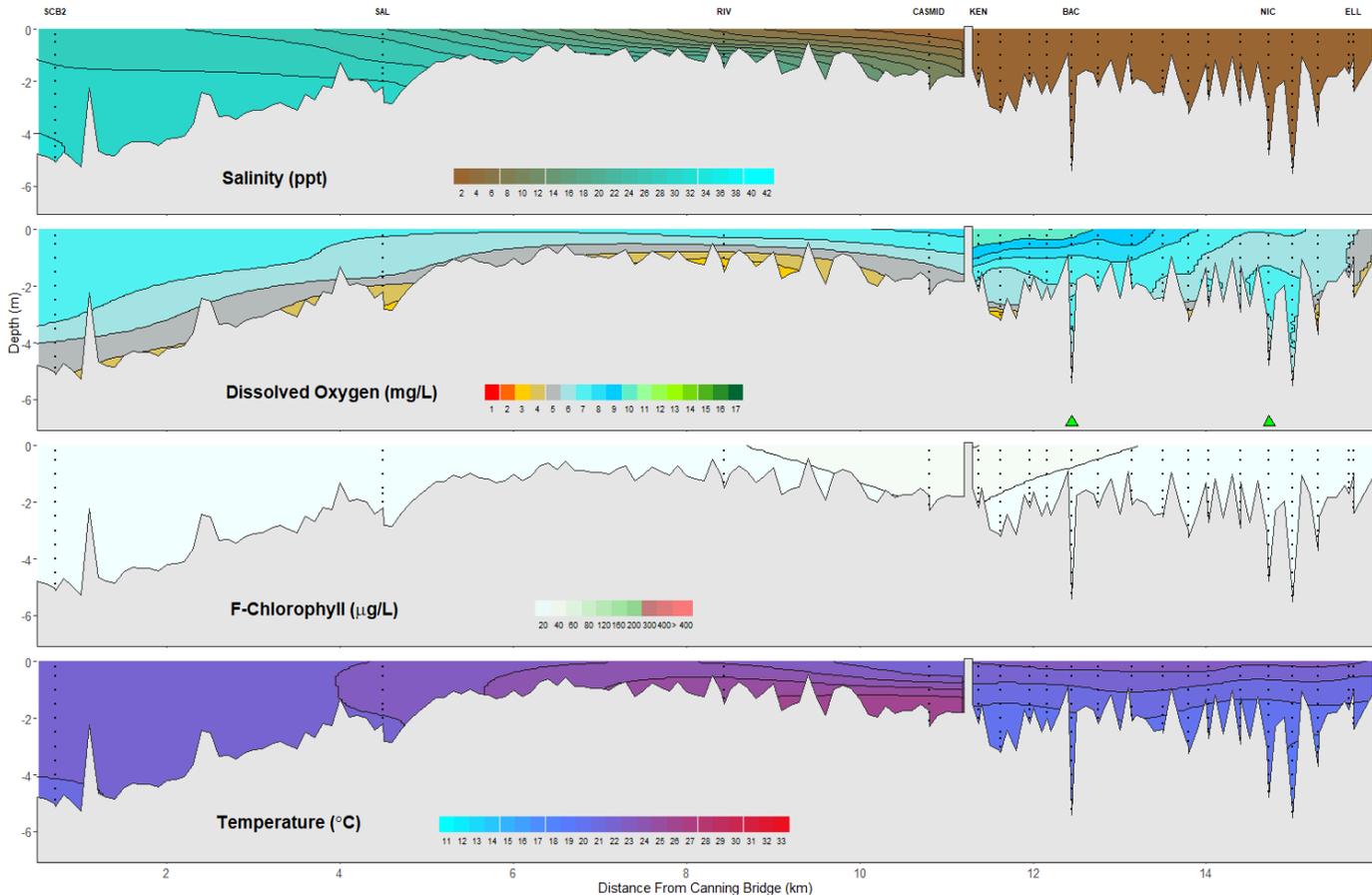
## Canning Estuary and Lower Canning River

20<sup>th</sup> October 2020

Prepared by

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## Canning Estuary and Lower Canning River- Water Quality Profiles- 20<sup>th</sup> October 2020



Date: 20<sup>th</sup> September 2020

Weather & tide conditions: Conditions were clear with a variable breeze of up to 4 knots. The predicted tides at Barrack St were 1.01 m at 12:31 am (high tide) and 0.5 m at 11:34 am (low tide). Gosnells recorded no rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd and Bacon St 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 from SCB2 to SAL, brackish at RIV and fresh over brackish at CASMID. Waters were oxygenated or well oxygenated, except at SAL and RIV where bottom waters were low in oxygen. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 20.9 to 25.6 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh. Waters were oxygenated or well oxygenated, except bottom waters at ELL, NIC, BAC and KENU300 which were low in oxygen and PAC which were hypoxic. Chlorophyll fluorescence was highest at KENU300 indicating higher microalgal activity in that area. Water temperature ranged from 18.5 to 23.2 °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