



Department of Biodiversity,  
Conservation and Attractions



Biodiversity and  
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# Swan Canning Estuary Water Quality Monitoring Project

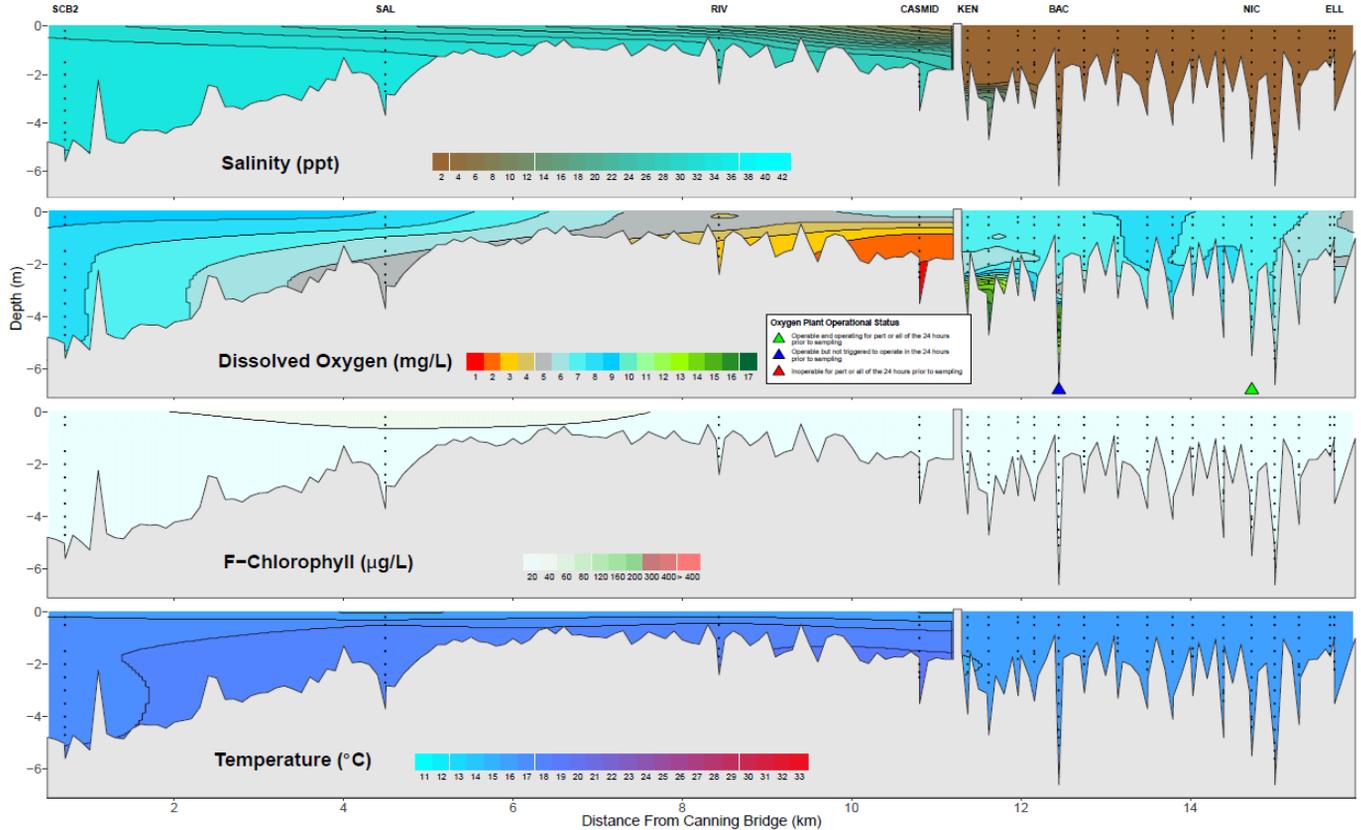
## Weekly Profile Report for the Canning Estuary and Lower Canning River

9<sup>th</sup> June 2020

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### Canning River Estuary – Physical-Chemical Profile – 9th Jun 2020



Date: 9<sup>th</sup> June 2020

Weather & tide conditions: Conditions were clear with a predominantly northerly light breeze of up to 2 knots. The predicted tide at Barrack St was 1.23 m at 12:47 pm (high tide). Flow was observed at Kent St Weir. Gosnells recorded 3.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St oxygenation plant was operational and the Nicholson Rd oxygenation plant was triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline between SCB2 and SAL and brackish over saline from RIV to CASMID. Surface waters were oxygenated or well oxygenated except at RIV which was low in oxygen. Bottom waters were low in oxygen at RIV and anoxic at CASMID. Chlorophyll fluorescence was highest at SAL indicating higher microalgal activity in that area. Water temperature ranged from 15.5 to 18.5 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout except at KENU300 which was fresh over brackish. Waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.7 to 16.0 °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