



Department of Biodiversity,  
Conservation and Attractions



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# Swan Canning Estuary Water Quality Monitoring Project

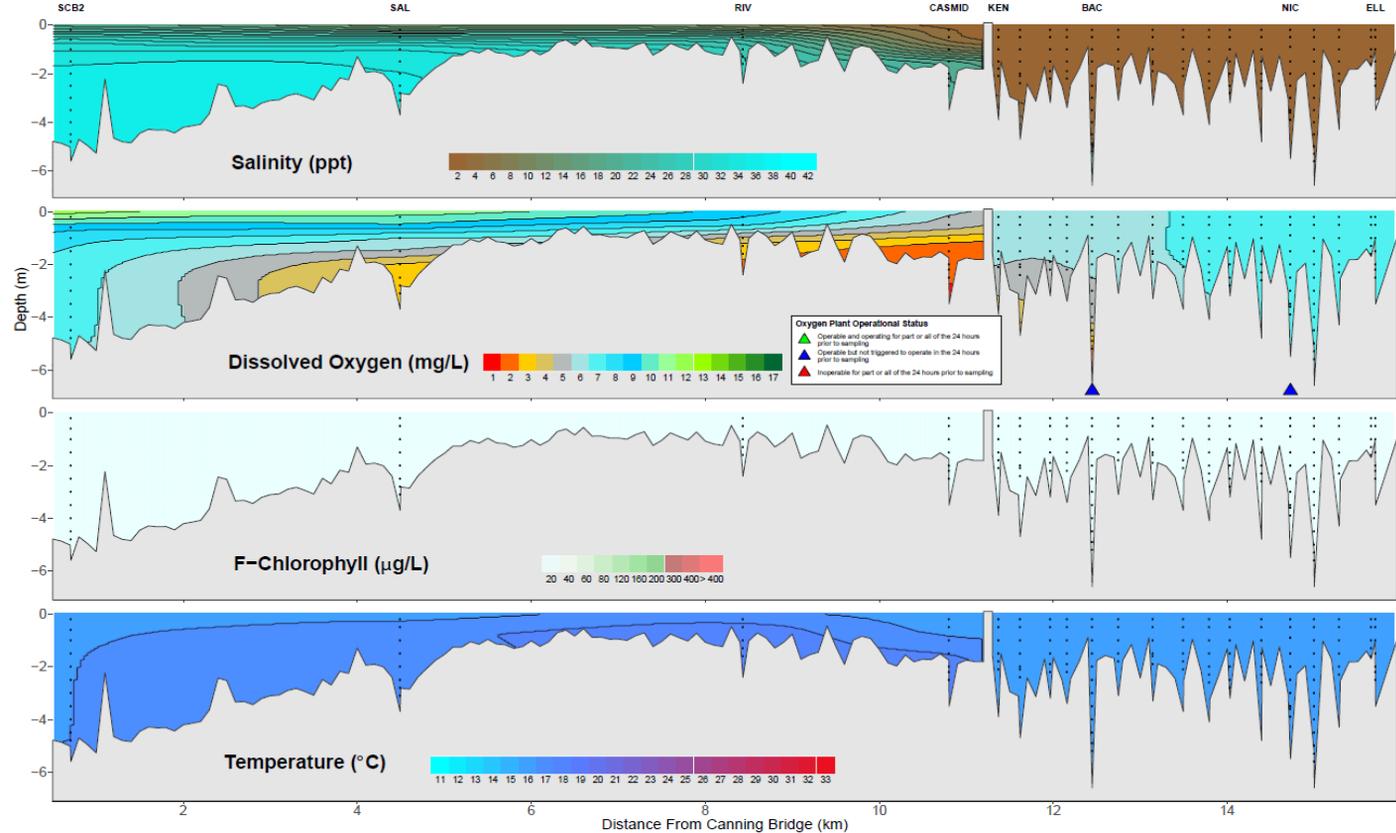
## Weekly Profile Report for the Canning Estuary and Lower Canning River

3<sup>rd</sup> June 2020

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### Canning River Estuary – Physical-Chemical Profile – 3rd Jun 2020



Date: Wednesday 3<sup>rd</sup> June 2020

Weather & tide conditions: Conditions were clear with a predominantly easterly breeze of up to 3 knots. The predicted tides at Barrack St were 0.85 m at 1:45 pm (low tide overnight), 1.16 m at 9:43 am (high tide) and 0.77 m at 6:59 pm (second low tide). Flow was observed at Kent St Weir. Gosnells recorded 67.7 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

NB: Kent Street Weir was opened on 29<sup>th</sup> May 2020 to alleviate flooding upstream of the weir and scour saline waters from the Lower Canning River that resulted from the overtopping event on 25<sup>th</sup> May 2020.

Oxygenation: The Nicholson Rd and Bacon St 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 RIV and fresh over brackish at CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen between SAL and RIV and hypoxic at CASMID. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 15.6 to 17.5 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout except at BAC which was fresh over brackish. Waters were oxygenated or well oxygenated except bottom waters at BAC which were hypoxic. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 15.1 to 15.8 °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