



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

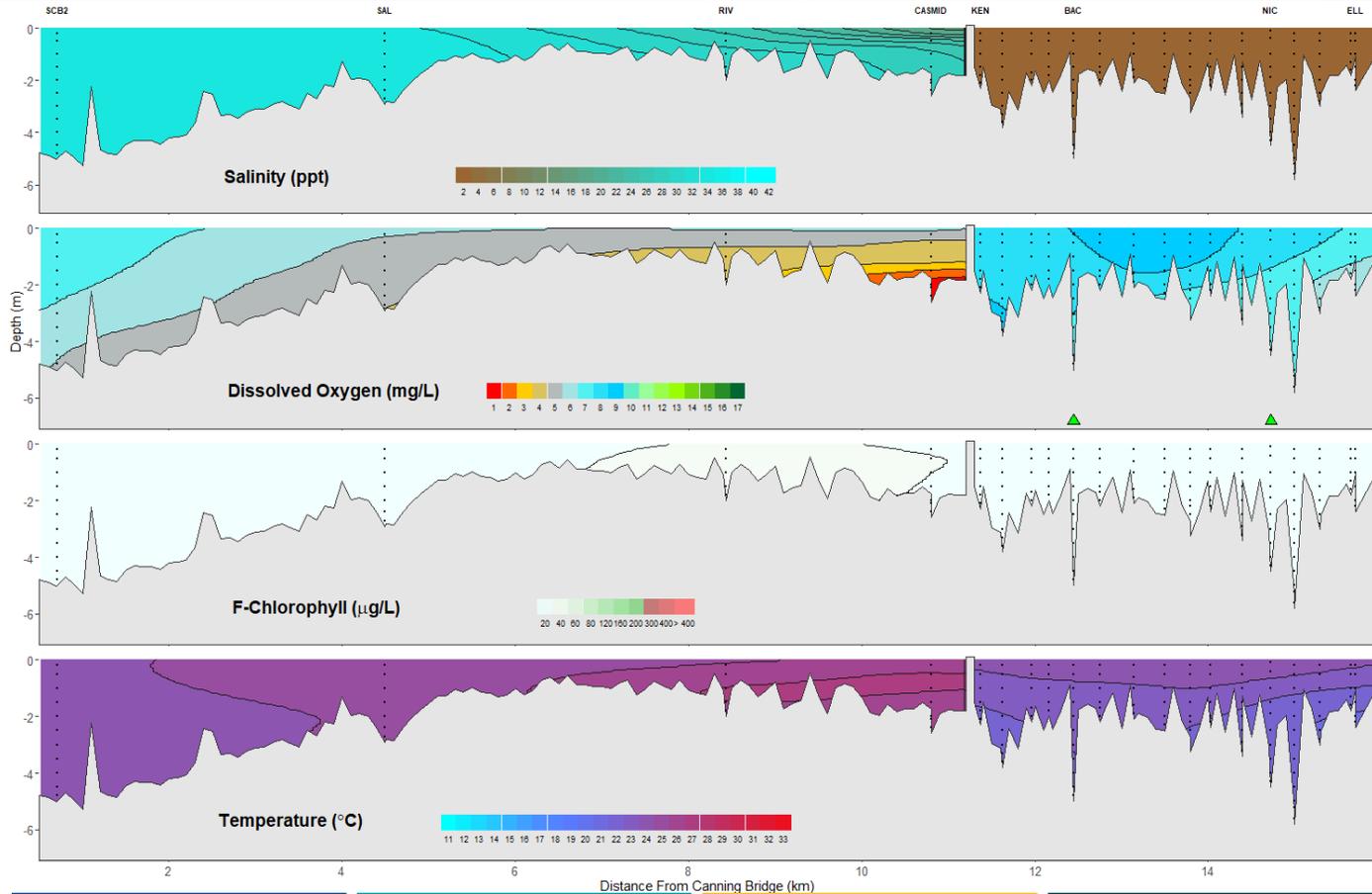
### Canning Estuary and Lower Canning River

30<sup>th</sup> March 2021

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## Canning Estuary and Lower Canning River - Water Quality Profiles – 30<sup>th</sup> March 2021



Date: 30<sup>th</sup> March 2021

Weather & tide conditions: Conditions were cloudy with a predominantly westerly breeze of up to 3.8 knots. The predicted tides at Barrack St were 0.95 m at 12:29 am (high tide), 0.79 m at 5:52 pm (low tide) and 1.03 m at 12:58 pm (second high tide). Gosnells recorded no rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd 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 between SCB2 and RIV and brackish over saline at CASMID. Surface waters were oxygenated and bottom waters were low in oxygen at RIV and anoxic at CASMID. Chlorophyll fluorescence was highest at RIV indicating higher microalgal activity in that area. Water temperature ranged from 23.5 to 26.2 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and waters were oxygenated or well oxygenated, except bottom waters at ELL which were low in oxygen. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 20.6 to 24.0 °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

**Recommended reference:** Department of Biodiversity, Conservation and Attractions 2021. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 30<sup>th</sup> March 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)