



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

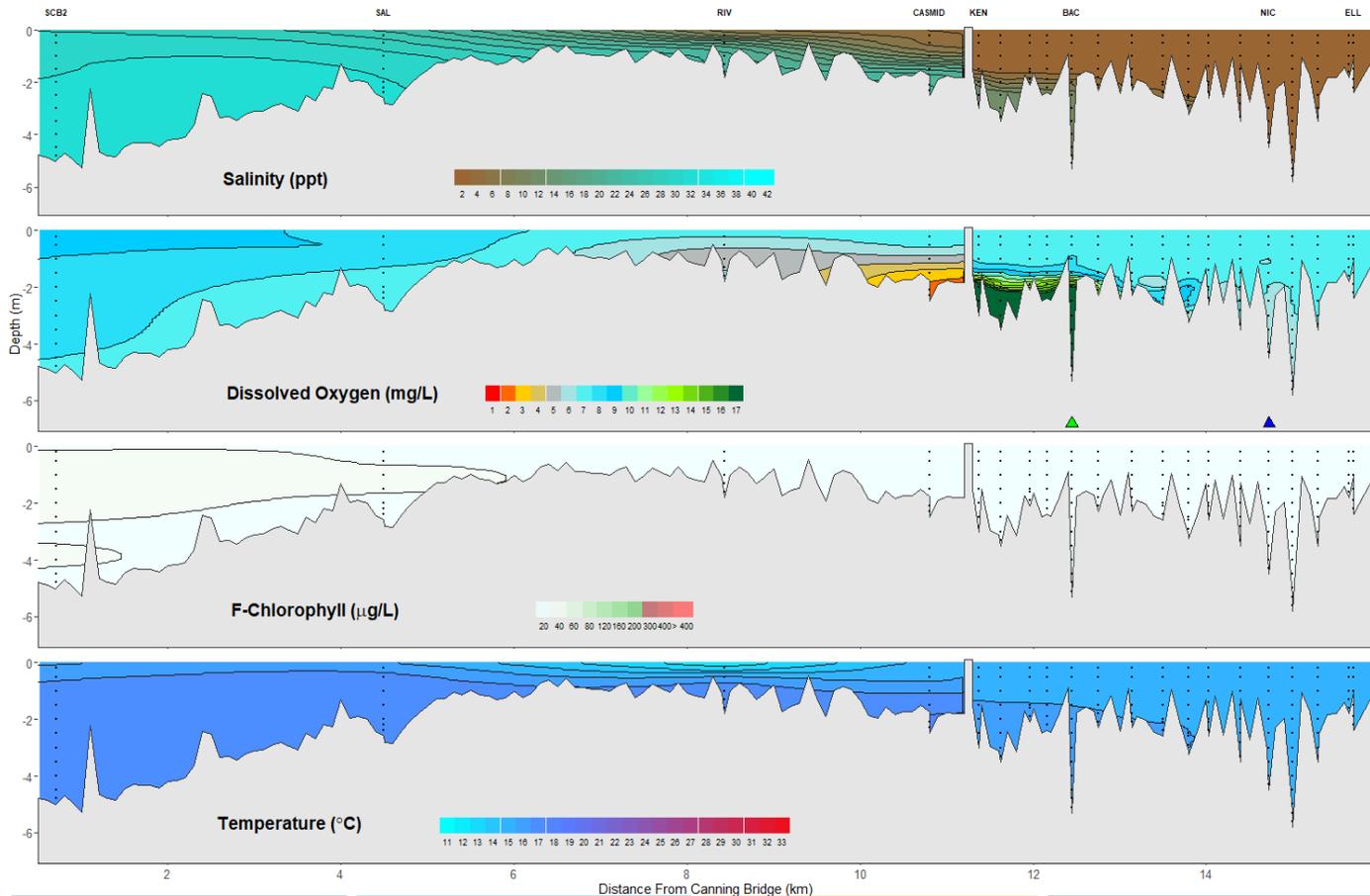
### Canning Estuary and Lower Canning River

15<sup>th</sup> June 2021

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## Canning Estuary and Lower Canning River - Water Quality Profiles – 15<sup>th</sup> June 2021



Date: 15<sup>th</sup> June 2021

Weather & tide conditions: Conditions were overcast with a light easterly breeze of up to 4 knots. The predicted tide at Barrack St was 1.25 m at 1:26 pm (high tide). Perth Airport recorded 29.4 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St oxygenation plant was triggered to provide oxygen and the Nicholson Rd oxygenation plant was 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 saline from SCB2 to SAL, brackish at RIV and fresh over brackish at CASMID. Waters were oxygenated or well oxygenated except for bottom waters at CASMID which were hypoxic. Chlorophyll fluorescence was highest at SCB2 indicating higher microalgal activity in that area. Water temperature ranged from 15.2 to 17.2°C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh over brackish from KEN to KS7 and fresh from MASD50 to ELL. Waters were oxygenated or well oxygenated and bottom waters were super saturated between KEN and BACU300. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.2 to 15.5 °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 15<sup>th</sup> June 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)