



# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

### Canning Estuary and Lower Canning River

28 July 2021

Prepared by

Rivers and Estuaries Science  
Biodiversity and Conservation Science  
Department of Biodiversity, Conservation and Attractions



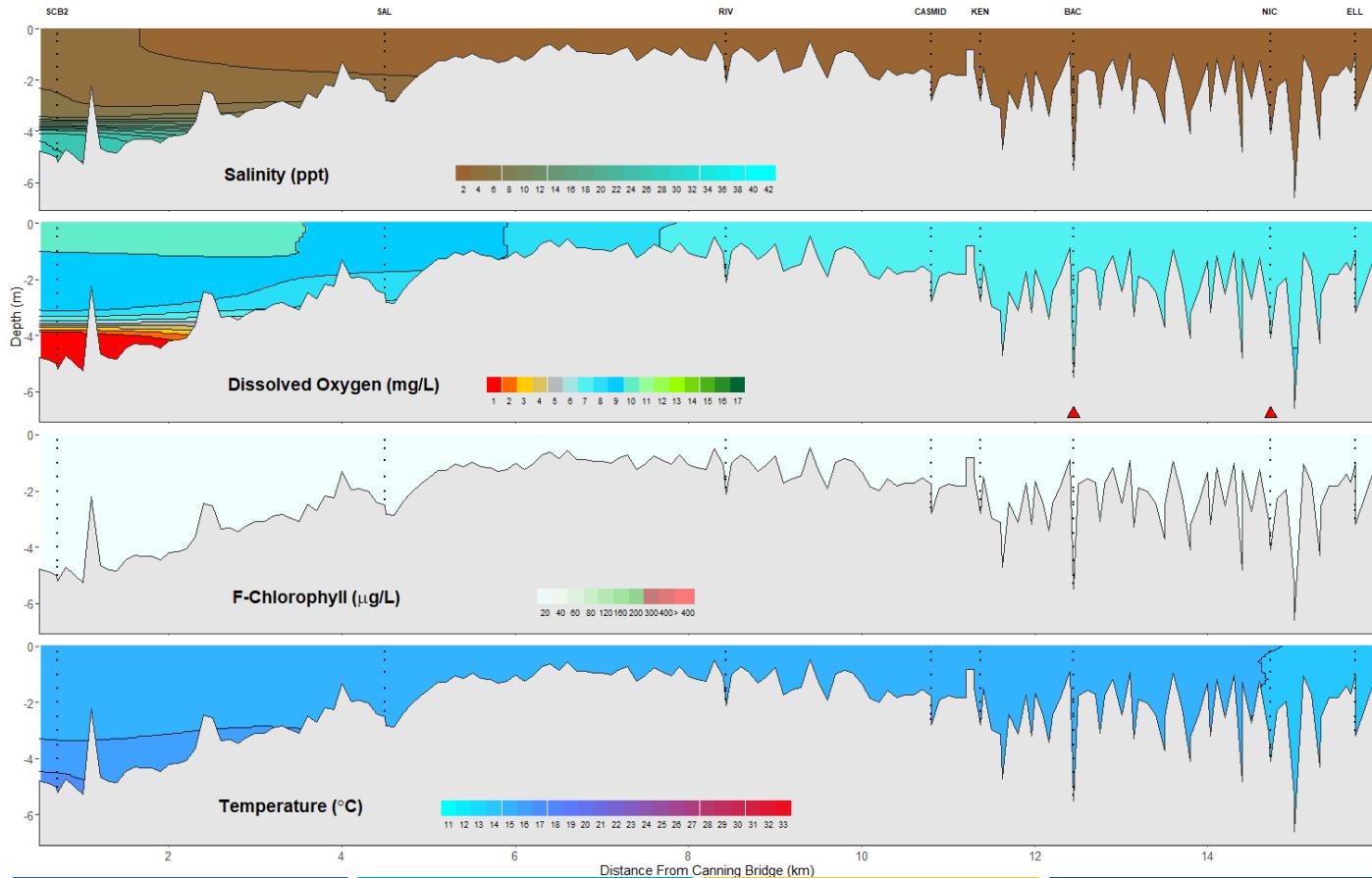
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## Canning Estuary and Lower Canning River - Water Quality Profiles – 28 July 2021





Date: 28 July 2021

NB: Kent Street Weir was opened to alleviate winter flows on 9 July 2021. Due to inclement weather on 27 July 2021, water quality monitoring was delayed until 28 July 2021.

Weather & tide conditions: Conditions were overcast with a north easterly breeze of up to 5 knots. The predicted tides at Barrack St were 1.06 m at 12:27 pm (high tide) and 0.8 m at 9:51 pm (low tide). Perth Airport recorded 40.8 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were not in operation in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was fresh over saline at SCB2 and fresh from SAL to CASMID. Waters were well oxygenated except bottom waters at SCB2 which were anoxic. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.2 to 16.1 °C.

Lower Canning River (upstream of KEN): The Lower Canning River was fresh, waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 13.9 to 14.2 °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

**Recommended reference:** Department of Biodiversity, Conservation and Attractions 2021. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 28 July 2021. Rivers and Estuaries Science* (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)