



Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

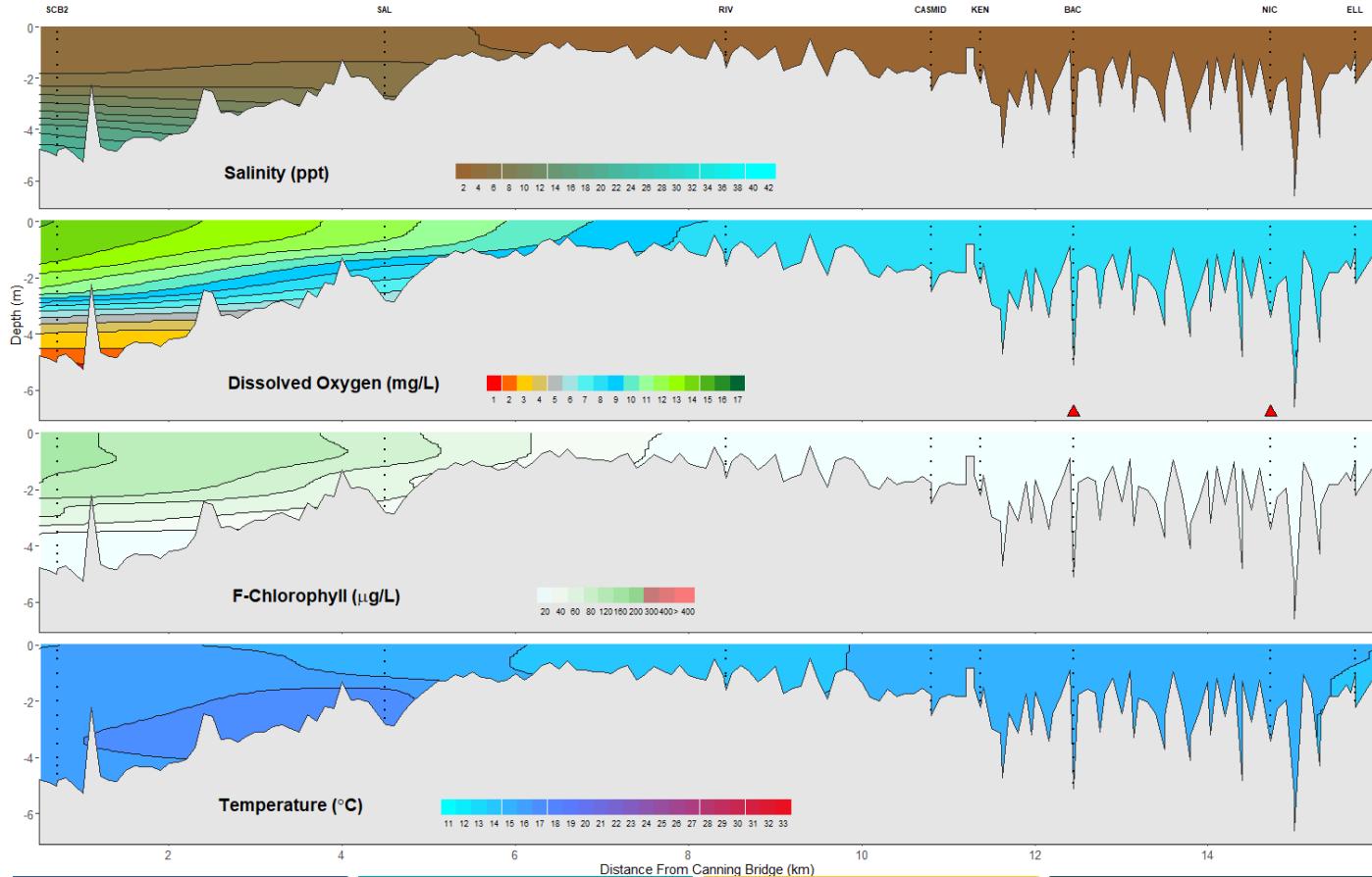
Canning Estuary and Lower Canning River

24 August 2021

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Canning Estuary and Lower Canning River - Water Quality Profiles – 24 August 2021





Date: 24 August 2021

NB: Kent Street Weir has remained open to alleviate winter flows from 9 July 2021.

Weather & tide conditions: Conditions were sunny with a light northerly breeze of up to 3 knots. The predicted tides at Barrack St were 0.7 m at 4:00 am (low tide) and 1.05 m at 12:11 pm (low tide). Perth recorded 14.8 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (SCB2 to CASMID): The Canning Estuary was fresh over brackish from SCB2 to SAL and fresh from RIV to CASMID. Waters were well oxygenated throughout except bottom waters at SCB2 which were hypoxic. Chlorophyll fluorescence was highest at SCB2 indicating higher microalgal activity in this area. Water temperature ranged from 13.1 to 16.2 °C.

Lower Canning River (upstream of KEN): The Lower Canning River was fresh, well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14 to 14.5 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at 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 24 August 2021. Rivers and Estuaries Science* (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)