

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

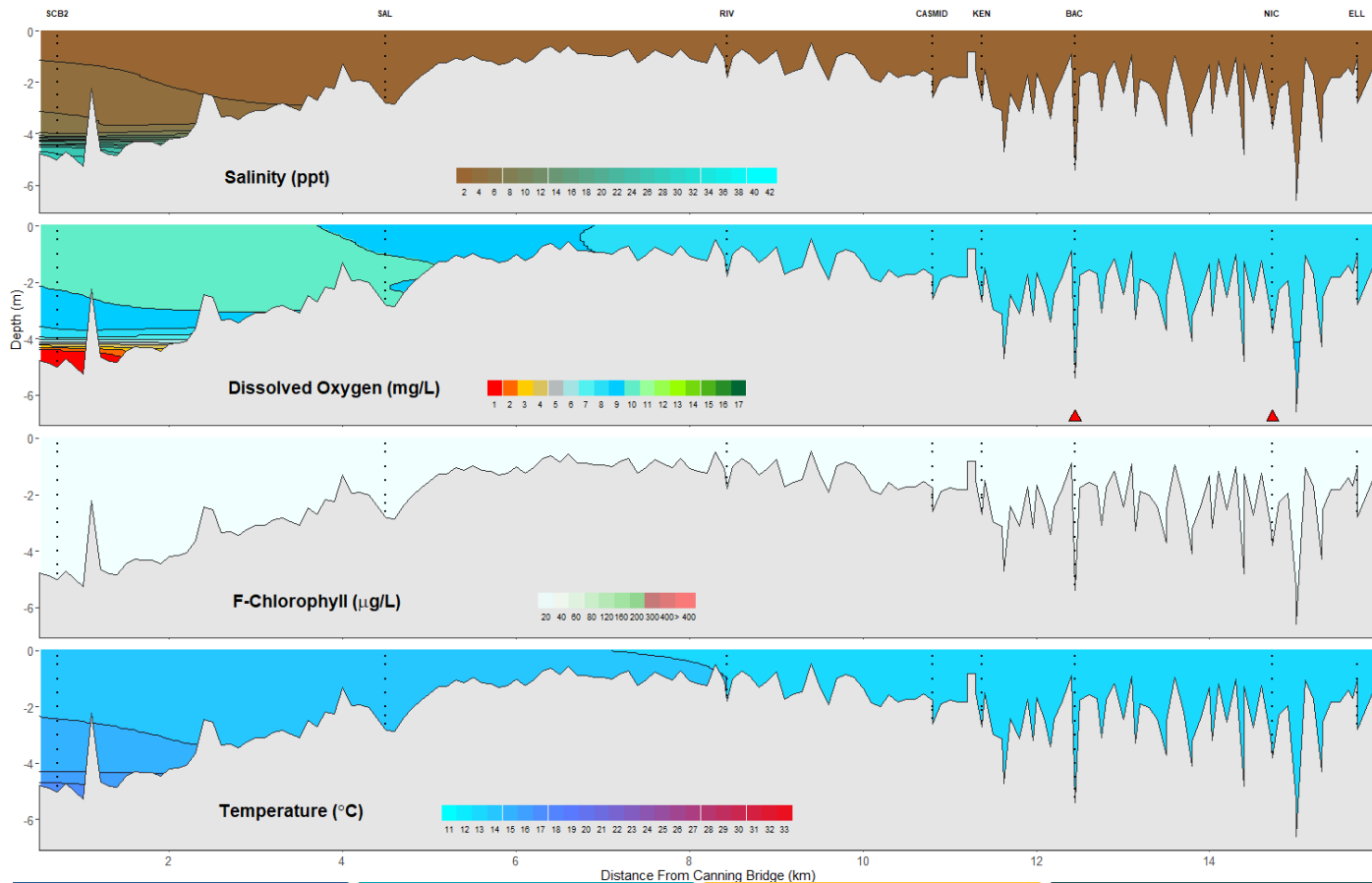
Canning Estuary and Lower Canning River

11 August 2021

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Canning Estuary and Lower Canning River - Water Quality Profiles – 11 August 2021



Date: 11 August 2021

NB: Kent Street Weir remained open to alleviate winter flows from 9 July 2021. Due to inclement weather sampling took place on 11 August.

Weather & tide conditions: Conditions were overcast with a light easterly breeze of up to 3 knots. The predicted tides at Barrack St were 0.81 m at 4:01 am (low tide) and 1.11 m at 12:38 pm (high tide). Perth recorded 15.4 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 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 12.9 to 16.2 °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 12.6 to 13 °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 11 August 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)