



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

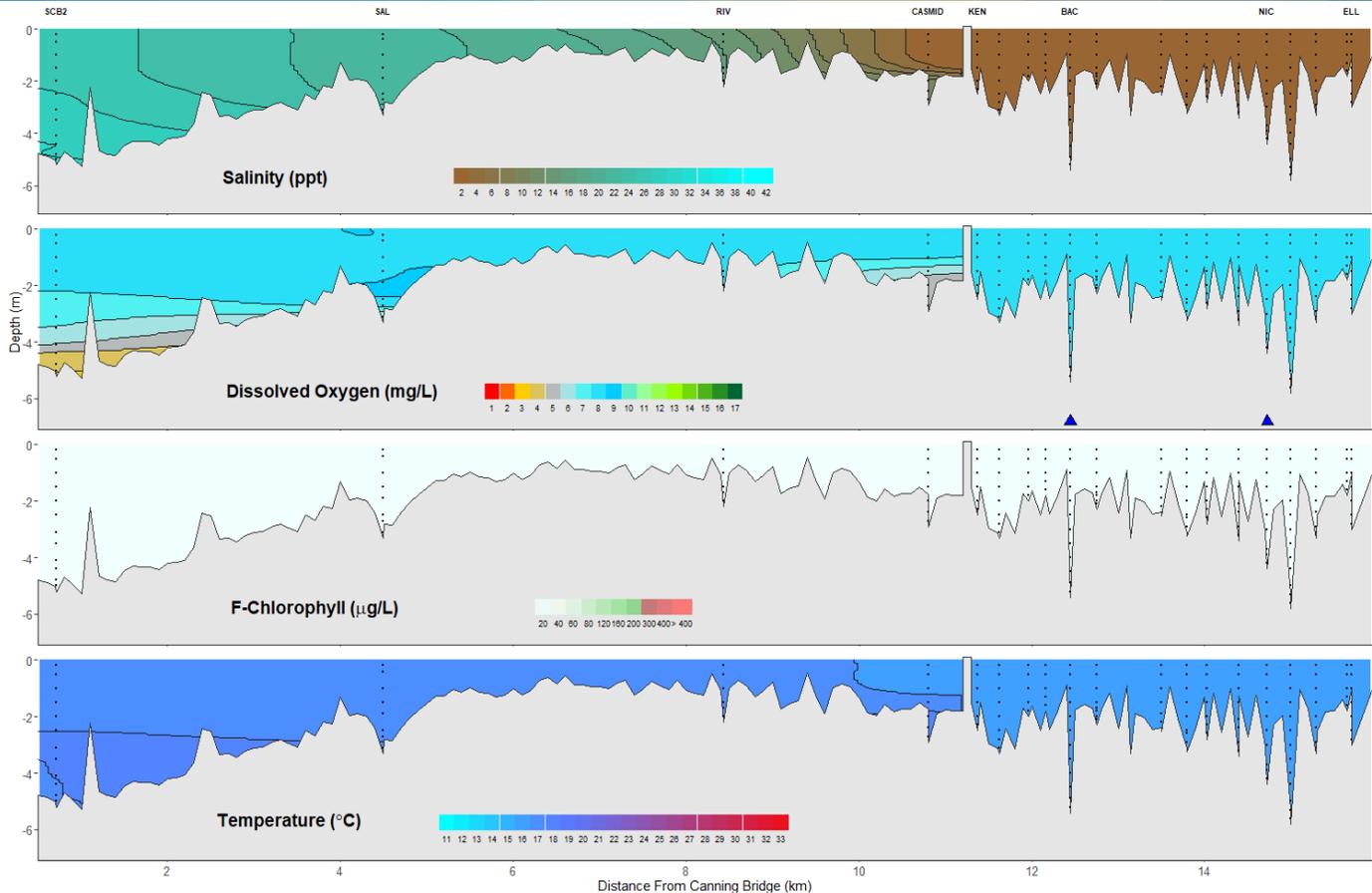
Canning Estuary and Lower Canning River

1st September 2020

Prepared by

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

Canning Estuary and Lower Canning River- Water Quality Profiles- 1st September 2020



Date: 1st September 2020

Weather & tide conditions: Conditions were cloudy with a variable breeze of up to 10 knots. The predicted tides at Barrack St were 1.03 m at 10:34 am (high tide) and 0.64 m at 7:56 pm (low tide). No reliable data was available from the Gosnells weather station in the week prior to sampling, however the Jandakot station recorded 9.8 mm and Perth Airport station recorded 15.6 mm (Bureau of Meteorology).

NB: After being open for 10 days Kent St Weir had been closed to prevent saline intrusion above the weir six days prior to sampling.

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were 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 brackish over saline at SCB2, brackish at SAL and RIV and fresh over brackish at CASMID. Surface waters were well oxygenated and the bottom waters were low in oxygen at SCB2. Chlorophyll fluorescence was throughout this zone. Water temperature ranged from 15.7 to 17.5 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh, waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.9 to 15.7 °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