



Department of Biodiversity,
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Swan Canning Estuary Water Quality Monitoring Project

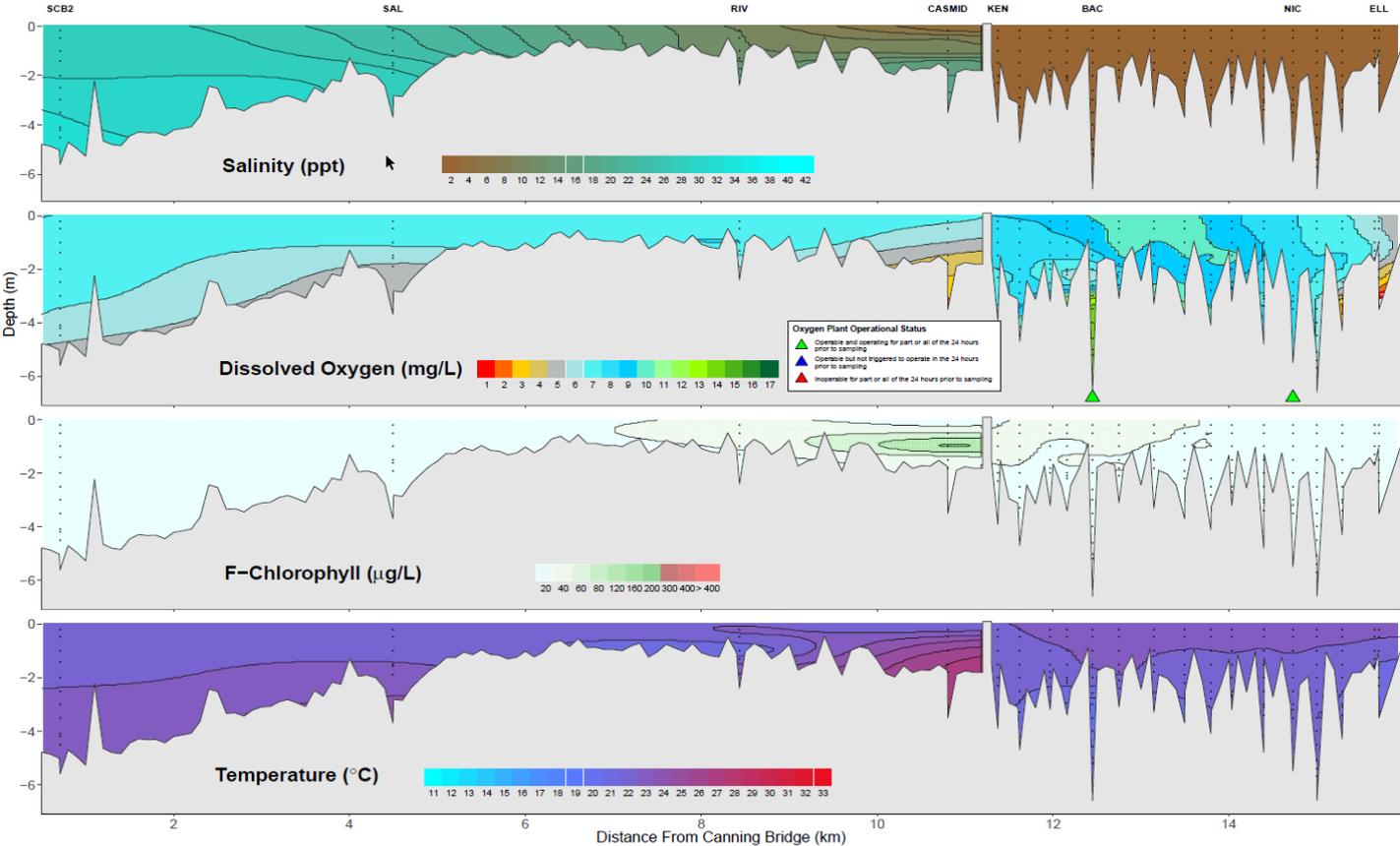
Weekly Profile Report for the Canning Estuary and Lower Canning River

12th November 2019

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Canning River Estuary – Physical-Chemical Profile – 12th Nov 2019



Date: 12th November 2019

Weather & tide conditions: Conditions were clear with no cloud cover and a shifting breeze of up to 7 knots. The tide was flooding during the sampling period from a low of 0.58 m at 7:10 am to a high of 0.71 m at 2:23 pm and flow was observed at Kent St Weir. Gosnells recorded no rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were both triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline at SCB2 and SAL, brackish at RIV and fresh over brackish at CASMID. Surface waters were well oxygenated throughout this zone with bottom waters being hypoxic at CASMID. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in this area. Water temperature ranged from 20.4 to 26.1 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout with well oxygenated surface waters. Bottom waters were hypoxic between PAC and ELL. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 19.2 to 23.2 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at wir.water.wa.gov.au.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning Estuary water quality monitoring weekly profile report, Canning River Estuary, 12th November*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)

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.