



Department of Biodiversity,
Conservation and Attractions



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Swan Canning Estuary Water Quality Monitoring Project

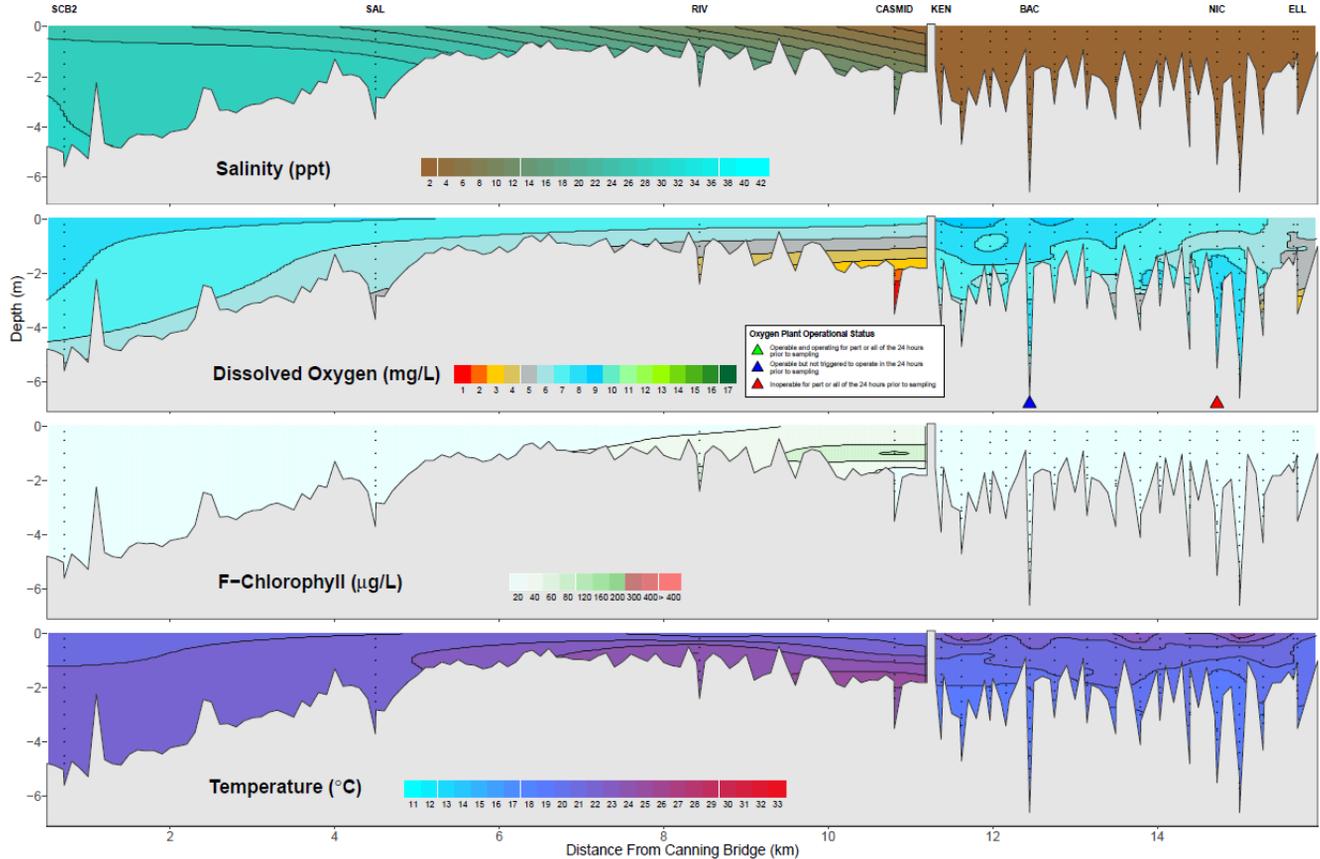
Weekly Profile Report for the Canning Estuary and Lower Canning River

22nd October 2019

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Canning River Estuary - Physical-Chemical Profile - 22nd Oct 2019



Date: 22nd October 2019

Weather & tide conditions: Conditions were clear with a shifting breeze of up to 4 knots. The tide was ebbing and the river was flowing during the sampling period. Gosnells recorded 1.3 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St oxygenation plant was operational but not triggered to provide oxygen and the Nicholson Rd oxygenation plant was not operational in the 24 hours prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline at SCB2, brackish over saline at SAL and fresh over brackish at RIV and CASMID. Surface waters were well oxygenated throughout this zone with bottom waters being low in oxygen at RIV and anoxic at CASMID. Chlorophyll fluorescence was high at RIV and CASMID indicating higher microalgal activity in this area. Water temperature ranged from 20.8 to 24.1 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout with well oxygenated surface waters. Bottom waters were low in oxygen at PAC. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 17.7 to 23.0 °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, 22nd October 2019*. Rivers and Estuaries Science Program (<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.