



Department of Biodiversity,
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Biodiversity and
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Swan Canning Estuary Water Quality Monitoring Project

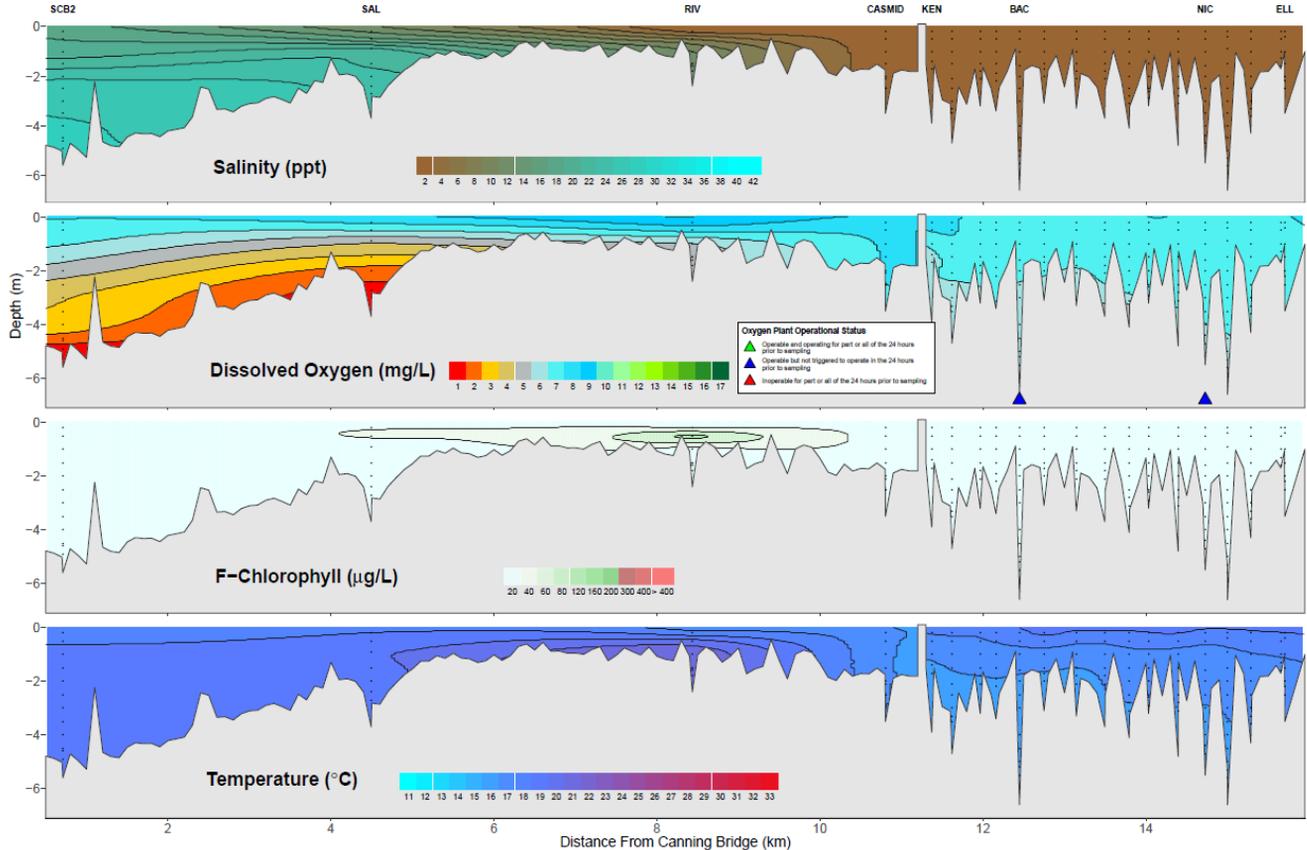
Weekly Profile Report for the Canning Estuary and Lower Canning River

24th September 2019

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Canning River Estuary – Physical-Chemical Profile – 24th Sep 2019



Date: 24th September 2019

Weather & tide conditions: Conditions were fine with no cloud cover and a shifting breeze of up to 7 knots. The tide was ebbing and the river was flowing during the sampling period. Gosnells recorded 11.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operational but were not triggered to provide oxygen during the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish over saline at SCB2, brackish at SAL, fresh over brackish at RIV and fresh at CASMID. Surface waters were well oxygenated throughout this zone with bottom waters being hypoxic at SCB2 and SAL. Chlorophyll fluorescence was high at RIV indicating higher microalgal activity in that area. Water temperature ranged from 16.1 to 20.6 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and well oxygenated. Chlorophyll fluorescence was low suggesting limited microalgal activity in this zone. Water temperature ranged from 15.3 to 18.7 °C.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning estuary water quality monitoring weekly profile report, Canning River Estuary, 24th September 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.