



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
Conservation Science

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Swan Canning Estuary Water Quality Monitoring Project

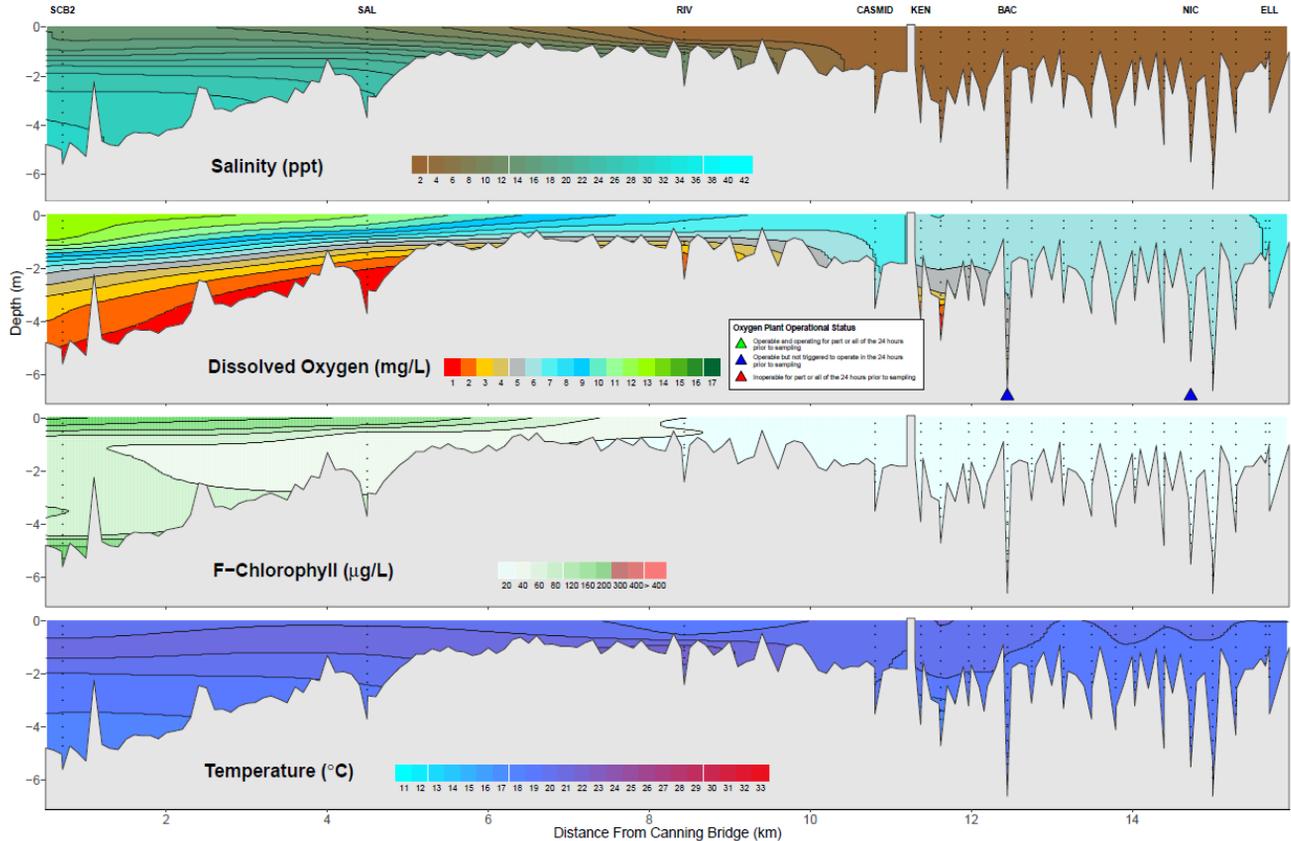
Weekly Profile Report for the Canning Estuary and Lower Canning River

17th September 2019

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Canning River Estuary – Physical-Chemical Profile – 17th Sep 2019



Date: 17 September 2019

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a shifting breeze of up to 6 knots. The tide peaked at 0.81 m at 12:31 pm and the river was flowing during the sampling period. Gosnells recorded no 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, SAL and RIV. Chlorophyll fluorescence was high at SCB2 and SAL indicating higher microalgal activity in that area. Water temperature ranged from 17.7 to 21.7 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and well oxygenated except for hypoxic bottom waters at KENU300. Chlorophyll fluorescence was low suggesting limited microalgal activity in this zone. Water temperature ranged from 16.5 to 20.2 °C.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning estuary water quality monitoring weekly profile report, Canning River Estuary, 17 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.