



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
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Swan Canning Estuary Water Quality Monitoring Project

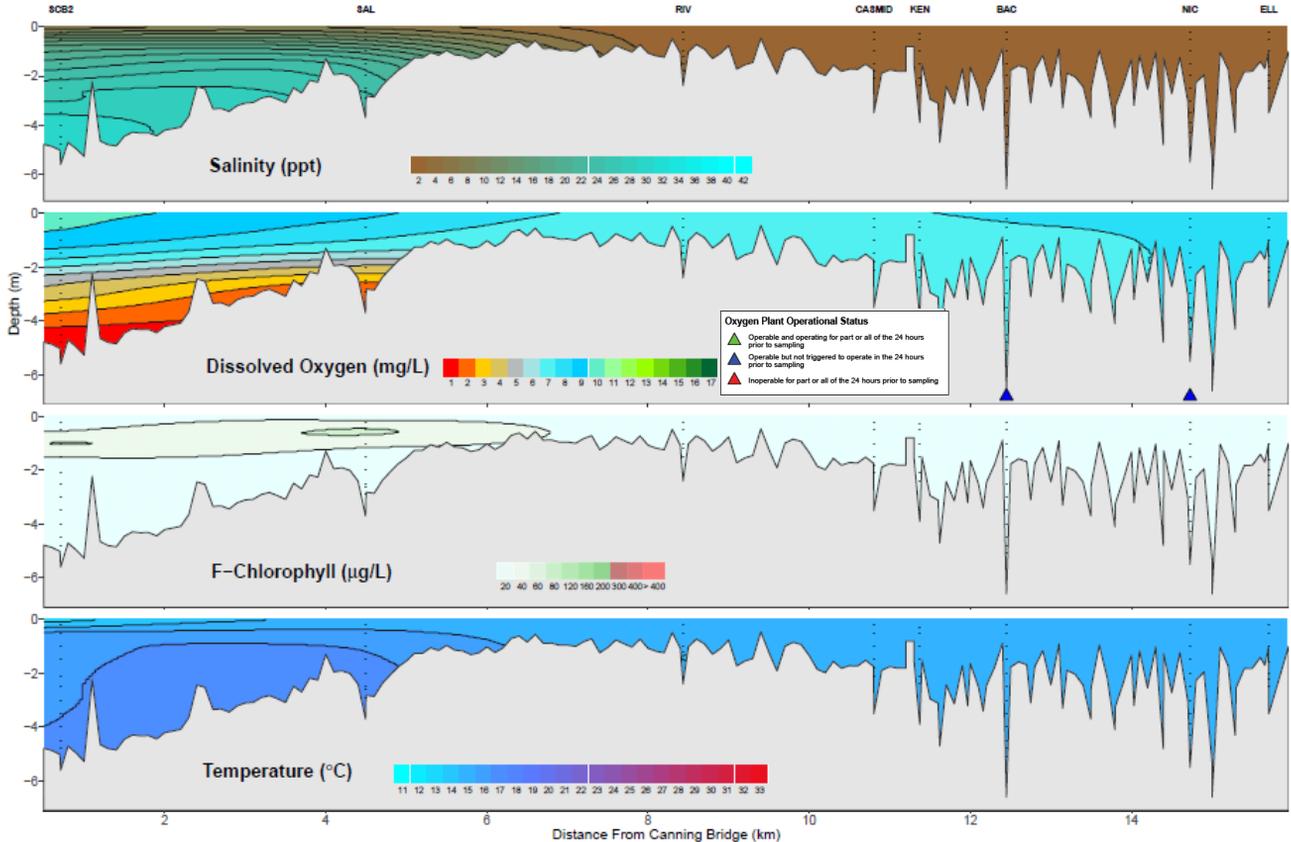
Weekly Profile Report for the Canning Estuary and Lower Canning River

23 July 2019

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Canning River Estuary – Physical-Chemical Profile – 23rd Jul 2019



Date: 23 July 2019

Weather & tide conditions: Conditions were mildly overcast with up to 60% cloud cover and a predominantly north easterly breeze of up to 3.5 knots. The tide was in flood during the sampling period however a weak surface flow was hiding tidal movement. Gosnells recorded 34.5mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish over saline at SCB2, brackish at SAL and fresh at RIV and CASMID. Water was generally well oxygenated, with the exception of hypoxic to anoxic conditions at SCB2 and SAL. A decrease in chlorophyll fluorescence compared to last week suggests low oxygen in this region could be related to both stratification and additional oxygen demand due to decomposition of a microalgae bloom. Water temperature ranged from 13.6 to 16.4° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and water was well oxygenated throughout all sites. Water temperature ranged from 14.1 to 14.7° C.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning estuary water quality monitoring weekly profile report, Canning River Estuary 23 July 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.