



Swan Canning Estuary Water Quality Monitoring Project

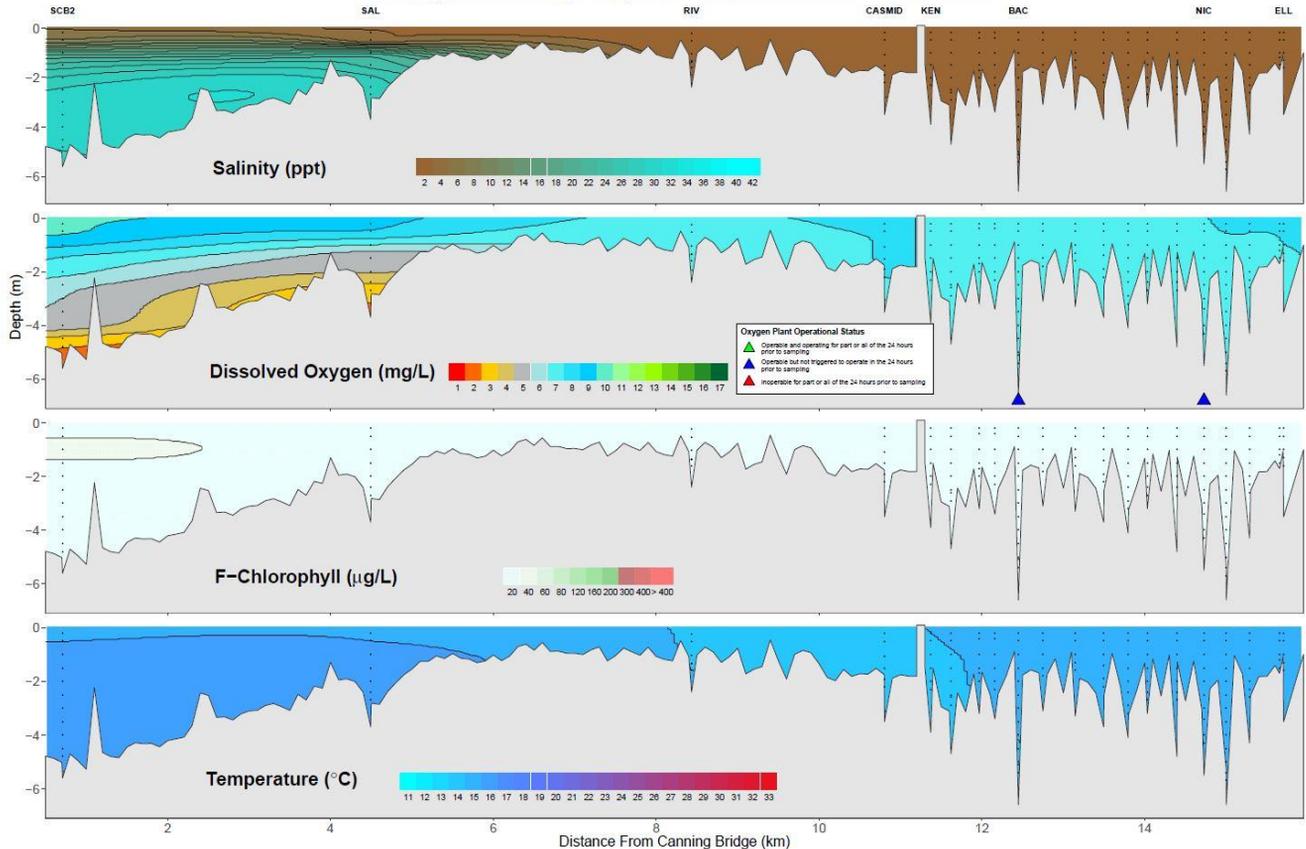
Weekly Profile Report for the Canning Estuary and Lower Canning River

9 July 2019

Prepared by

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Canning River Estuary – Physical-Chemical Profile – 9th Jul 2019



Date: 9 July 2019

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a shifting breeze of up to 4 knots. The tide was flooding during the sampling period however there was significant flow pushing downstream. Gosnells recorded 66.5 mm 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, fresh over saline at SAL and fresh at RIV and CASMID. Water was well oxygenated to oxygenated throughout, with the exception of low oxygen bottom waters at SCB2 and SAL. Chlorophyll fluorescence signal at SCB2 reflects increased microalgae activity at this site. Water temperature ranged from 13.7 to 15.9° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Water was well oxygenated throughout all sites. Water temperature ranged from 13.9 to 14.5° C.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning estuary water quality monitoring weekly profile report, Canning River Estuary 9 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.