Swan Canning Estuary Water Quality Monitoring Project
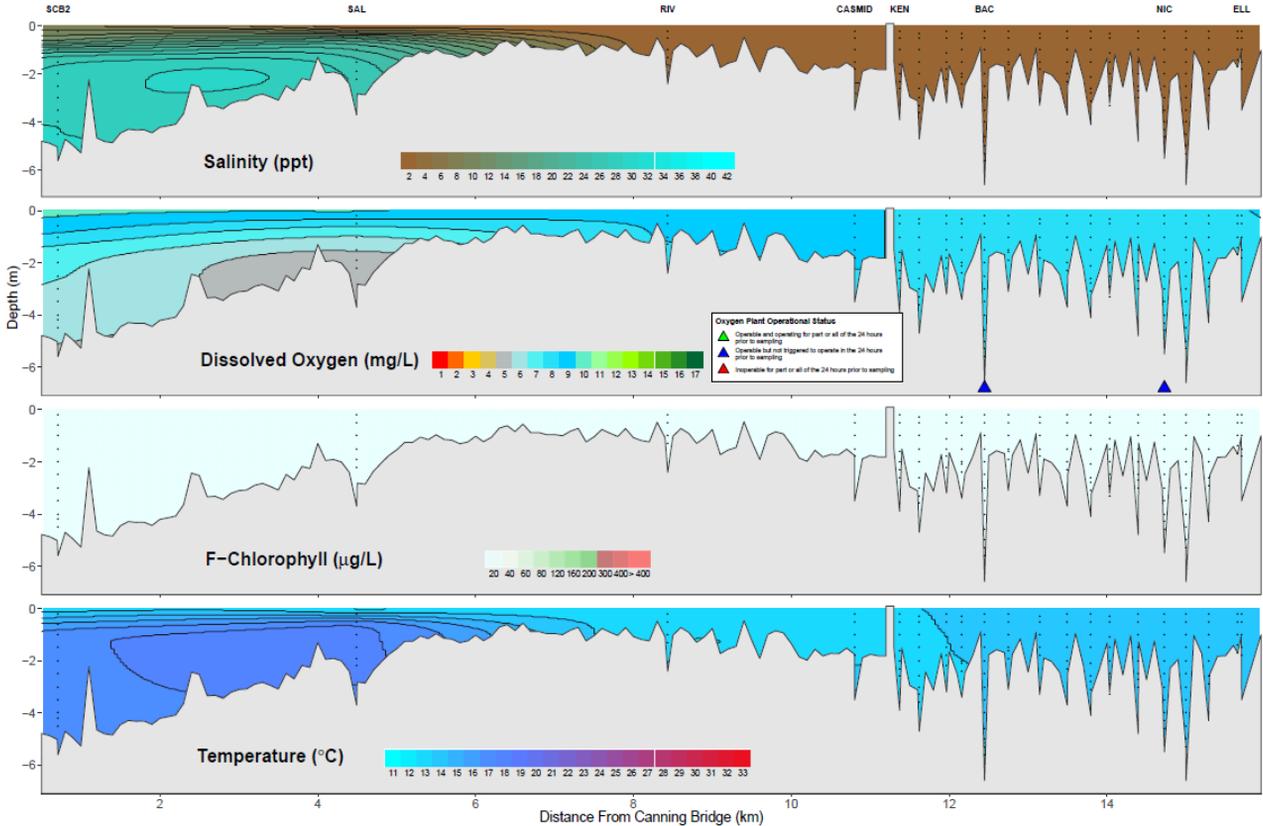
Weekly Profile Report for the

Canning Estuary and Lower Canning River

20 August 2019

Prepared by

River and Estuaries Science Program,
Biodiversity and Conservation Science
Department of Biodiversity, Conservation and Attractions

Canning River Estuary − Physical−Chemical Profile − 20th Aug 2019

Date: 20 August 2019

Weather & tide conditions: Conditions were clear skies with no cloud cover and east to north-westerly breezes of up to 4 knots. The river was flowing during the sampling period. Gosnells recorded 36.5mm 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 but not triggered during the week prior to sampling

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish over saline at SCB2 and SAL and fresh throughout at RIV and CASMID. All sites were oxygenated throughout the profile. Chlorophyll fluorescence was low, suggesting limited microalgal activity in this zone. Water temperature ranged from 12 to 17.3° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout the profile and well oxygenated. Chlorophyll fluorescence was low, suggesting limited microalgal activity in this zone. Water temperature ranged from 12.3 to 13.6° C.

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.