



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 11th September 2018

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a south easterly breeze of up to 1 knot. The tide was flowing during the sampling period. Perth¹ recorded 20.2 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

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

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was fresh over saline at SCB2, fresh over brackish at SAL and fresh at RIV and CASMID. Surface water was well oxygenated at SCB2 and SAL, while bottom water was near anoxic at SCB2 and hypoxic at SAL. Water was well oxygenated throughout RIV and CASMID. Water temperature ranged from 15.5 to 17.5 ° 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 15.6 to 16.3 ° C.

¹Perth rainfall data was used due to missing data from the Gosnells City station

Definitions:

Salinity – fresh <5ppt, brackish 5-25ppt, saline 25-35ppt, hypersaline >35ppt

Dissolved oxygen – well oxygenated >6 mg/L
oxygenated >4 to 6 mg/L, low oxygen >2 to 4 mg/L,
hypoxic >0.5 to 2.0 mg/L, near anoxic <0.5 mg/L

Canning River Estuary - Physical-Chemical Profiles - 11th September 2018

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