



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 5th December 2017

Weather & tide conditions: Conditions were fine with up to 80% cloud cover and a predominantly southerly breeze of up to 7 knots. The tide was ebbing during the sampling period. Gosnells recorded 7.6 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 saline at SCB2 and SAL, brackish at RIV and fresh on the surface over brackish bottom water at CASMID. Water was well oxygenated at SCB2, oxygenated at SAL, low in oxygen at RIV and oxygenated on the surface over low in oxygen bottom water at CASMID. Water temperature ranged from 22.8 to 25.5 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Water was mostly well oxygenated to oxygenated at all sites, with the exception of low oxygen bottom water at PAC and hypoxic bottom water at ELL. Water temperature ranged from 21.8 to 24.4 ° C.

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 Profile - 5th December 2017

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