



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 12th September 2017

Weather & tide conditions: Conditions were overcast with 100% cloud cover and a predominantly south to south easterly breeze of up to 5 knots. The tide was ebbing during the sampling period. Gosnells recorded 0.1 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Road oxygenation plant was operational the week prior to sampling, while the Bacon Street oxygenation plant was not.

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. Surface water was well oxygenated at all sites over low oxygen bottom water at SCB2, near anoxic bottom water at SAL and oxygenated bottom water at RIV and CASMID. Water temperature ranged from 16.4 to 18.8 °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 KENU300 and BAC. Water temperature ranged from 14.7 to 17.9 °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 - 12th September 2017

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