



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 16th April 2019

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a north-west to south-westerly breeze of up to 20 knots. The tide was flowing during the sampling period. Gosnells recorded 9.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd oxygenation plant was operational the week prior to sampling, while Bacon St was operational most of the week prior to sampling except on 12/4/19.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was hypersaline at SCB2 and SAL, saline at RIV and brackish over saline at CASMID. Water was well oxygenated throughout SCB2 and SAL. Surface water was oxygenated at RIV and low in oxygen at CASMID, while bottom water was low in oxygen at RIV and hypoxic at CASMID. Water temperature ranged from 20.1 to 22.6 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 20.2 to 21.5 ° 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 - 16th April 2019

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