



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 12th December 2017

Weather & tide conditions: Conditions were fine with up to 10% cloud cover and a south westerly breeze of up to 3 knots. The tide was ebbing during the sampling period. Gosnells recorded 0 mm of rainfall during the week prior to 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 on the surface over saline bottom water at RIV and brackish at CASMID. Water was well oxygenated to oxygenated throughout SCB2 while surface water was well oxygenated to oxygenated and bottom water was low in oxygen from SAL to CASMID. Water temperature ranged from 24.2 to 30.1 ° 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 throughout all sites, with the exception of hypoxic bottom water at KEN, PAC and ELL and near anoxic bottom water at KS7. Water temperature ranged from 22.5 to 27.8 ° 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 December 2017

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