



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 18th July 2017

Weather & tide conditions: Conditions were fine with 80% cloud cover and a predominantly north easterly breeze of up to 9 knots. The tide was flowing during the sampling period. Perth recorded 13.6 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

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

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish over saline at SCB2 and SAL and fresh over brackish at RIV and CASMID. Surface water was well oxygenated at all sites. Bottom water was oxygenated at SCB2, low in oxygen at SAL and RIV and near anoxic at CASMID. Water temperature ranged from 13.7 to 17.0 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites, with the exception of brackish bottom water at KENU300. Water was mostly well oxygenated to oxygenated throughout all sites, with the exception of near anoxic bottom water at KENU300. Water temperature ranged from 14.3 to 15.2 ° 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 - 18th July 2017

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