



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 11th July 2017

Weather & tide conditions: Conditions were fine with up to 90% cloud cover and a predominantly north westerly breeze of up to 8 knots. The tide was flowing during the sampling period. Due to construction work at Kent St weir, observation of the flow over the weir was not possible. Perth recorded 28.8 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 saline at SCB2, brackish over saline at SAL, fresh over saline at RIV and fresh over brackish at CASMID. Water was well oxygenated to oxygenated from SCB2 to SAL, well oxygenated on the surface over low oxygen bottom water at RIV and well oxygenated on the surface over hypoxic bottom water at CASMID. Water temperature ranged from 11.5 to 16.3° 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 well oxygenated to oxygenated throughout all sites, with the exception of near anoxic bottom water at KENU300. Water temperature ranged from 12.6 to 15.5 ° 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 - 11th July 2017

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