



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
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Date: Tuesday 12th May 2015

Weather & tide conditions: Conditions were fine with 0% cloud cover and an easterly to south easterly breeze of up to 10 knots. The tide was flooding for the duration of the sampling period. Perth recorded 0 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Bacon Street, Camsell Way and Nicholson Road oxygenation plants were operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline over hypersaline bottom water at SCB2, saline throughout at SAL and RIV, and brackish over saline bottom water at CASMID. Surface water was well oxygenated to oxygenated at all sites. Bottom water was well oxygenated at SCB2, oxygenated at SAL, low in oxygen at RIV, and near anoxic at CASMID. Water temperature ranged from 15.8 to 20.8 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout with the exception of brackish bottom water at KEN and KENU300. Surface water was well oxygenated at all sites. Bottom water was hypoxic at KEN and KS7, near anoxic at KENU300, and well oxygenated to oxygenated at the other sites. Water temperature ranged from 14.7 to 19.9 °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 May 2015

