



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
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Date: Tuesday 17th March 2015

Weather & tide conditions: Conditions were fine with up to 40% cloud cover and a north westerly to westerly breeze of up to 8 knots. The tide was flooding for the duration of the sampling period. Perth recorded 7.4 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: Bacon St, Camsell Way and Nicholson Rd oxygenation plants were operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was hypersaline throughout at SCB2 and SAL, saline at RIV, then brackish on the surface and saline on the bottom at CASMID. Water was oxygenated throughout at SCB2 and SAL and low in oxygen throughout at RIV. CASMID was low in oxygen on the surface and bottom with a hypoxic layer in between. Water temperature ranged from 23.1 to 25.6 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh on the surface and brackish on the bottom from KEN to KS7 then fresh throughout to ELL. Surface water was well oxygenated at all sites except PAC and ELL where surface water was oxygenated. Bottom water was well oxygenated to oxygenated at all sites except for KEN, KENU300 and ELL where bottom water was low in oxygen. Water temperature ranged from 23.0 to 25.5 °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 - 17th March 2015

