



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Tuesday 5th July 2016

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a predominately easterly breeze of up to 4 knots. The tide was stationary for the duration of the sampling period. Perth recorded 18.6 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. Bacon Street and Camsell Way oxygenation plants were not operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish over saline at SCB2, SAL and RIV and fresh over brackish at CASMID. Surface water was well oxygenated at all sites over hypoxic bottom water at SAL, RIV and CASMID and low oxygen at SCB2. Water temperature ranged from 11.1 to 16.1 °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 BAC and KENU300. Water was well oxygenated to oxygenated throughout all sites, with the exception of near anoxic bottom water at BAC and KENU300. Water temperature ranged from 10.9 to 16.2 °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 - 5th July 2016

