



**Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile**

by
Water Science Branch, Department of Water

Date: Wednesday 28th September 2016

Weather & tide conditions: Conditions were fine with up to 30% cloud cover and a predominately east to south easterly breeze of up to 10 knots. The tide was flowing for the duration of the sampling period. Perth recorded 30.6 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, brackish at SAL and water was fresh at RIV and at CASMID. Water was mostly well oxygenated with the exception of near anoxic bottom water at SCB2 and low oxygen at SAL. Water temperature ranged from 13.4 to 16.8 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and well oxygenated throughout all sites. Water temperature ranged from 12.7 to 14.3 °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 - 28th September 2016

