



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

**by
Water Science Branch, Department of Water**

Date: Tuesday 31 March 2015

Weather & tide conditions: Conditions were fine with 30 to 90% cloud cover and predominantly a south westerly to south easterly breeze of up to 4 knots. The tide was flooding for the duration of the sampling period and water was flowing downstream over the Kent St weir boards. Perth recorded 2.8 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 to saline from SCB2 to RIV, then brackish over saline as CASMID. Surface water was well oxygenated to oxygenated. Bottom water was oxygenated at SCB2 and SAL, low in oxygen at RIV, then near anoxic at CASMID. Water temperature ranged from 21.8 to 25.8 °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, PAC and from MASD50 to NIC, near anoxic at KENU300 and KS7, low in oxygen at KS9, then well oxygenated to oxygenated at all other sites. Water temperature ranged from 20.0 to 24.5 °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 - 31 March 2015

