



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

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

Date: Tuesday 21<sup>st</sup> February 2017

Canning Estuary run: SCB2 (07:57) upstream to CASMID (09:09) on the Trekker. Crew of Andrew Sayce and Mark Bretnall. The YSI 6600 V2 #3 was used and there were no problems with the equipment.

Lower Canning run: ELL (07:53) downstream to KEN (09:43) on the Kepa. Crew of Rebecca Firth and Vaughan Smith. The YSI 6600 V2 #1 was used and there were no problems with the equipment.

Weather & tide conditions: Conditions were overcast with up to 95% cloud cover and a predominately westerly breeze of up to 14 knots. The tide was flowing 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).

Additional samples: Additional samples and profile readings were taken at the Canning oxygenation sites.

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

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish at all sites, with the exception of saline bottom water at SCB2 and fresh surface water at CASMID. Water well oxygenated to oxygenated, with the exception of hypoxic to near anoxic bottom water at SCB2 and CASMID. Water temperature ranged from 22.1 to 26.0 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and well oxygenated to oxygenated throughout all sites, with the exception of low oxygen on the bottom of ELL to KS9 and on the surface of PAC. Water temperature ranged from 23.7 to 25.0 ° 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 - 21st February 2017

