



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

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

Date: Tuesday 5th January 2016

Canning Estuary run: SCB2 (08:05) upstream to SAL (08:38) on the Kupa. Crew of Frances Miller, Katherine Bennett and Digby Veiling. The YSI 6600 V2 #3 was used and there were no problems with the equipment. RIV (08:10) to CASMID (08:45) on the Trekker. Crew of Amanda Page and Mark Bretnall. The YSI 6600 V2 #1 was used and there were no problems with the equipment.

Lower Canning run: ELL (09:58) downstream to NIC (10:23) on the Trekker. Crew of Amanda Page and Mark Bretnall. The YSI 6600 V2 #1 was used and there were no problems with the equipment. KEN (09:49) upstream to NICD200 (11:50) on the Kupa. Crew of Frances Miller, Katherine Bennett and Digby Veiling. The YSI 6600 V2 #3 was used and there were no problems with the equipment.

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a predominately north to north westerly breeze of up to 3 knots. The tide was flooding and water was flowing downstream over the Kent Street weir boards 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 Bacon Street, Camsell Way and Nicholson Road oxygenation plants were operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline throughout with the exception of brackish surface water over saline bottom water at CASMID. Water was oxygenated with the exception of low oxygenated water throughout CASMID and bottom water at RIV. Water temperature ranged from 24.7 to 30.2 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Water was well oxygenated to oxygenated throughout all sites, with the exception of near anoxic bottom water at PAC, KS7 and KENU300 and low oxygen bottom water at KEN. Water temperature ranged from 21.3 to 28.1 ° C.

Definitions:

Salinity – fresh <5ppt, brackish 5-25ppt, saline 25-35ppt, hypersaline >35ppt

Dissolved oxygen – well oxygenated >6

Canning River Estuary - Physical-chemical Profile - 5th January 2016

