



Department of
Parks and Wildlife



SWAN CANNING
RIVERPARK

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

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

Date: Tuesday 30th May 2017

Weather & tide conditions: Conditions were fine with up to 30% cloud cover and a predominantly north easterly breeze of up to 3 knots. The tide was flooding during the sampling period. Due to construction work at Kent St Weir, it was not possible to note whether water was flowing over the weir boards. Perth recorded 2.4 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, while Bacon St oxygenation plant was operational up until 26th May.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was Saline at SCB2 and SAL, brackish over saline at RIV and fresh over brackish at CASMID. Surface water was oxygenated over low oxygen bottom water at RIV and surface water was well oxygenated over near anoxic bottom water at CASMID. Water temperature ranged from 14.8 to 19.9 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was mostly fresh throughout with the exception of brackish bottom water from KENU300 to BAC and at KS7. Water was mostly well oxygenated to oxygenated throughout, with the exception of low oxygen bottom water at KEN and BAC, hypoxic bottom water at KENU300 and BACD500 and near anoxic bottom water at BACD300 and KS7. Water temperature ranged from 13.9 to 19.3 ° 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 - 30th May 2017

