



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 13th October 2015

Weather & tide conditions: Conditions were fine with up to 100% cloud cover at SCB2 and SAL and up to 5% cloud cover at all other sites. There was a north easterly to north westerly breeze of 2 knots at SCB2 and SAL and northerly breeze of 2 knots at RIV. The tide was flooding 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).

Oxygenation: The Nicholson Road oxygenation plant was operational the week prior to sampling. The 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 saline throughout at SCB2 and SAL, brackish throughout at RIV and fresh to brackish at CASMID. Water was well oxygenated to low oxygen with hypoxic bottom water at RIV. CASMID showed a layer of hypoxic bottom water at a depth of 0.5 m. Water temperature ranged from 21.5 to 27.4 °C.

Lower Canning River (upstream of Kent St Weir): The lower Canning River was fresh throughout. Surface water was mostly well oxygenated. Bottom water had low oxygen at BACU300, was near anoxic at KEN and KENU300 and hypoxic at BACD500, PO2, GRE and KS7. Sites from NICD200 to PAC were well oxygenated throughout.

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 - 13th October 2015

