



Environmental Monitoring and Reporting
Swan River Estuary ~ Weekly profile

by
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Date: Monday 6th July 2015

Weather & tide conditions: Conditions were fine with up to 80% cloud cover and a north easterly to north westerly breeze of up to 6 knots. The predicted tides at Guildford were 0.65 m (low tide) at 04:13 and 1.03 m (high tide) at 16:57. Perth recorded 8.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were operational the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was well oxygenated to oxygenated and saline throughout. Water temperature ranged from 15.3 to 16.9 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was well oxygenated to oxygenated. Water was mostly saline with brackish surface water at STJ, MAY and RON. Water temperature ranged from 15.5 to 17.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated at most sites with the exception of low oxygenated bottom water at BWR10, KIN, KMO and SUC. Water temperature ranged from 14.4 to 17.3 °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

Swan River Estuary - Physical-chemical Profile - 6th July 2015

