



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

by
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Date: Monday 29th February 2016

Weather & tide conditions: Conditions were fine with up to 50% cloud cover and variable wind directions gusting up to 9 knots. The predicted tides at Guildford were 0.63 m (low tide) at 07:18 and 0.95 m (high tide) at 15:50. Perth recorded 0.4 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 hyper saline throughout. Surface water was well oxygenated over oxygenated bottom water throughout all sites with the exception oxygenated surface water at NAR. Water temperature ranged from 23.3 to 25.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout with the exception of hyper saline bottom water at NIL. Surface water was well oxygenated over oxygenated bottom water throughout all sites with the exception of low oxygen bottom water at RON. Water temperature ranged from 25.5 to 27.1 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout, with the exception of saline bottom water from BWR10 to KMO. Water was well oxygenated to oxygenated at all sites with the exception of low oxygen bottom water at BWR10 to KMO and at SUC to CAV. Water temperature ranged from 25.4 to 27.4 °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 - 29th February 2016

