



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

by
Water Science Branch, Department of Water

Date: Monday 20th July 2015

Weather & tide conditions: Conditions were overcast with up to 98% cloud cover and a south westerly to north westerly breeze of up to 12 knots. The predicted tides at Guildford were 1.04 m (high tide) at 12:58 and 0.78 m (low tide) at 21:43. Perth recorded 34.8 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 and saline throughout. Water temperature ranged from 14.6 to 16.0 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was well oxygenated to oxygenated with brackish surface water and saline bottom water. Water temperature ranged from 14.6 to 16.1 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was well oxygenated to oxygenated at all sites. Water was brackish throughout from POL to CAV, then brackish on the surface and saline on the bottom from WMP to BWR10. Water temperature ranged from 13.6 to 16.2 °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 - 20th July 2015

