



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

by
Water Science Branch, Department of Water

Date: Tuesday 7th June 2016

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a predominantly southerly breeze of up to 8 knots. The predicted tides at Guildford were 1.23 m (high tide) at 12:56 and 0.70 m (low tide) at 23:48. Perth recorded 30.6 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 saline throughout. Water was mostly well oxygenated with oxygenated bottom water at ARM and low oxygen bottom water at HEA and NAR. Water temperature ranged from 15.1 to 17.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout, with the exception of saline bottom water at NIL. Surface water was well oxygenated over low oxygen bottom water at NIL, near anoxic bottom water at STJ and MAY and hypoxic bottom water at RON. Water temperature ranged from 14.0 to 17.4 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout with the exception of low oxygen bottom water at KMO and hypoxic bottom water at KIN and BWR10. Water temperature ranged from 12.0 to 16.0 °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 - 7th June 2016

