



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

by
Water Science Branch, Department of Water

Date: Monday 15th February 2016

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly easterly breeze of up to 15 knots. The predicted tides at Guildford were 0.58 m (low tide) at 06:58 and 0.96 m (high tide) at 17:41. Perth recorded 0 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were operational from 9/2/16 and 12/2/16 respectively, on the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was hyper saline to saline throughout. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 22.6 to 24.4 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout with the exception of brackish water at RON and brackish surface water at MAY. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 24.5 to 26.5°C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated at VIT and SUC and from WMP to POL. Surface water was well oxygenated to oxygenated over low oxygen bottom water at BWR10 to KMO and at MULB FARM. There was low oxygen water at MEA. Water temperature ranged from 25.8 to 28.0 °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 - 15th February 2016

