



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

by
Water Science Branch, Department of Water

Date: Monday 23rd November 2015

Weather & tide conditions: Conditions were fine with up to 40% cloud cover and a predominantly north westerly breeze of up to 4.4 knots. The predicted tides at Guildford were 0.61 m (low tide) at 06:31 and 0.98 m (high tide) at 22:09. Perth recorded 3.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was operational and the Caversham oxygenation plant was not operational during the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was saline to hypersaline throughout all sites. Water was well oxygenated and oxygenated at all sites. Water temperature ranged from 21.5 to 23.0 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout NIL, brackish over saline at STJ and MAY and brackish throughout RON. Water was well oxygenated on the surface over oxygenated bottom water at all sites. Water temperature ranged from 23.6 to 25.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated at BWR10 to MEA, REG, MSB and POL. MULB FARM to CAV and JBC had well oxygenated to oxygenated surface water over low oxygen bottom water. Water temperature ranged from 25.1 to 26.9 °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 - 23rd November 2015

