



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

by
Water Science Branch, Department of Water

Date: Monday 31st August 2015

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a north westerly breeze of up to 13 knots. The predicted tides at Guildford were 0.72 (low tide) at 05:54 and 0.94 m (high tide) at 13:11. Perth recorded 20.0 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 BLA and brackish over saline from ARM to NAR. Water was well oxygenated and oxygenated at all sites, with the exception of NAR which had low oxygen bottom water. Water temperature ranged from 16.4 to 17.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout all sites. Water was well oxygenated at the surface over oxygenated bottom water at all sites, with the exception of low oxygen bottom water at STJ. Water temperature ranged from 16.3 to 17.6 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish and well oxygenated at all sites. Water temperature ranged from 15.2 to 16.7 °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 - 31st August 2015

