



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

by  
**Water Science Branch, Department of Water**

Date: Monday 23<sup>rd</sup> May 2016

Weather & tide conditions: Conditions were fine with up to 75% cloud cover and a predominantly north easterly breeze of up to 10 knots. The predicted tides at Guildford were 1.21 m (high tide) at 12:17 and 0.75 m (low tide) at 21:05. Perth recorded 53.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: Caversham oxygenation plant was operational the week prior to sampling. Guildford oxygenation plant was operational the week prior to sampling up to 21/5/16.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was saline throughout with the exception of hyper saline bottom water at BLA and ARM. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 16.6 to 18.0 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout with the exception of saline bottom water at NIL and STJ. Water was well oxygenated to oxygenated throughout with the exception of low oxygen bottom water at RON and hypoxic bottom water at STJ and MAY. Water temperature ranged from 15.7 to 17.8 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout all sites. Water was well oxygenated to oxygenated throughout all sites with the exception of low oxygen bottom water at KIN and BWR10. Water temperature ranged from 14.9 to 17.4 °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 May 2016

