



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

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

Date: Tuesday 6<sup>th</sup> June 2017

Weather & tide conditions: Conditions were fine with up to 20% cloud cover and a north easterly breeze of up to 13 knots. The predicted tides at Guildford were 1.15 m (high tide) at 10:08 and 0.82 m (low tide) at 20:17. Perth recorded 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 and well oxygenated to oxygenated throughout, with the exception of low oxygen bottom water at NAR. Water temperature ranged from 17.0 to 18.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout NIL and brackish over saline at STJ to RON. Water was well oxygenated on the surface of all sites, and bottom water was well oxygenated at NIL and near anoxic at STJ to RON. Water temperature ranged from 16.9 to 19.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish over saline from BWR10 to SUC, and brackish throughout MEA to POL. Water was well oxygenated to oxygenated, with the exception of near anoxic bottom water at BWR10 to KMO, hypoxic bottom water at VIT and SUC and low oxygen bottom water at MULB FARM and WMP. Water temperature ranged from 14.9 to 18.4 °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 - 6th June 2017

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