



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

by  
**Water Science Branch, Department of Water and Environmental Regulation**

Date: Monday 14<sup>th</sup> August 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a north westerly breeze of up to 20 knots. The predicted tides at Guildford were 0.92 m (high tide) at 04:24 and 0.73 m (low tide) at 19:54. Perth recorded 85.2 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 but did not need to operate.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was brackish over saline at BLA, HEA and ARM and fresh over saline at NAR. Water was mostly well oxygenated with oxygenated bottom water at ARM and low oxygen bottom water at HEA and NAR. Water temperature ranged from 14.7 to 16.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish and well oxygenated throughout. Water temperature ranged from 14.7 to 14.8 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish and well oxygenated throughout, with the exception of oxygenated bottom water at KIN. Water temperature ranged from 14.5 to 14.9 °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 - 14th August 2017

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