



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

by  
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Date: Monday 28<sup>th</sup> August 2017

Weather & tide conditions: Conditions were fine with up to 80% cloud cover and an east to south easterly breeze of up to 6 knots. The predicted tides at Guildford were 0.90 m (high tide) at 02:33 and 0.66 m (low tide) at 17:41. Perth recorded 0.6 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 with the exception of fresh surface water at NAR. Water was well oxygenated to oxygenated, with the exception of low oxygen bottom water at HEA and hypoxic bottom water at NAR. Water temperature ranged from 15.6 to 16.8 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh and well oxygenated throughout all sites. Water temperature ranged from 15.7 to 16.4 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh and well oxygenated throughout all sites. Water temperature ranged from 15.0 to 17.0 °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 - 28th August 2017

