



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

by  
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 5<sup>th</sup> June 2018

Weather & tide conditions: Conditions were overcast with 100% cloud cover, consistent rainfall and a north-easterly breeze of up to 22 knots. The predicted tides at Guildford were 0.76 m (low tide) at 00:47 and 1.12 m (high tide) at 14:18. Perth recorded 11.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham oxygenation plant was operational the week prior to sampling, while the Guildford oxygenation plant was operational up to 02/06/18.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was hypersaline to saline throughout. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 16.3 to 17.9 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline at NIL and brackish over saline from STJ to RON. Water was well oxygenated to oxygenated throughout with the exception of low oxygen bottom water at MAY and RON. Water temperature ranged from 16.1 to 17.3 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish over saline from BWR10 to WMP and brackish from CAV to POL. Water was well oxygenated to oxygenated throughout with the exception of hypoxic bottom water at CAV and from BWR10 to SUC, and anoxic bottom water from MEAD to WMP. Water temperature ranged from 14.2 to 17.8 °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 - 5th June 2018

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