



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

by  
Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 18<sup>th</sup> June 2018

Weather & tide conditions: Conditions were cloudy and with up to 90% cloud cover and a gusty south-westerly breeze of up to 27 knots. The predicted tides at Guildford were 0.68 m (low tide) at 01:01 and 1.15 m (high tide) at 14:34. Perth recorded 8.6 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.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was saline throughout. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 15.9 to 17.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish over saline from NIL to MAY and brackish at RON. Water was well oxygenated to oxygenated throughout with the exception of low oxygen bottom water at STJ and hypoxic bottom water at MAY and RON. Water temperature ranged from 15.2 to 17.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout with the exception of bottom waters low in oxygen at VIT and SUC, near anoxic at KIN and hypoxic at BWR10. 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 Profiles 18th June 2018

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