



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

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

Date: Monday 5<sup>th</sup> November 2018

Weather & tide conditions: Conditions were fine with up to 85% cloud cover, and a south east to south westerly breeze of up to 13 knots. The predicted tides at Guildford were 0.65 m (low tide) at 05:43 and 0.76 m (high tide) at 11:05. Perth recorded 1.8 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 hypersaline to saline, with the exception of brackish water throughout NAR. Water was well oxygenated to oxygenated, with the exception of low oxygen bottom water at HEA. Water temperature ranged from 19.2 to 20.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout, with the exception of fresh water at RON. Water was well oxygenated to oxygenated, with the exception of low oxygen bottom water at STJ and MAY. Water temperature ranged from 21.7 to 23.3 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh and well oxygenated throughout all sites. Water temperature ranged from 22.3 to 23.4 °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 Profiles 5th November 2018

Prepared by Aquatic Science Branch, Department of Water and Environmental Regulation

