



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

by  
Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 3<sup>rd</sup> July 2017

Weather & tide conditions: Conditions were overcast with up to 95% cloud cover and a north easterly breeze of up to 10 knots. The predicted tides at Guildford were 1.02 m (high tide) at 08:39 and 0.79 m (low tide) at 20:41. Perth recorded 24.8 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 saline and well oxygenated throughout, with the exception of brackish surface water at NAR. Water temperature ranged from 13.1 to 17.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary had brackish surface water over saline bottom water at all sites. Surface water was well oxygenated over oxygenated bottom water at NIL, low oxygen bottom water at STJ and hypoxic bottom water at MAY and RON. Water temperature ranged from 12.6 to 16.2 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout, with the exception of saline bottom water at BWR10 and KIN. Water was well oxygenated throughout with the exception of oxygenated bottom water at REG, low oxygen bottom water at SUC to MULB FARM and there was hypoxic bottom water from BWR10 to VIT and at WMP. Water temperature ranged from 11.3 to 16.2 °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 - 3rd July 2017

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