



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

by  
Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 4<sup>th</sup> December 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a predominantly southerly breeze of up to 4 knots. The predicted tides at Guildford were 0.46 m (low tide) at 09:40 and 1.09 m (high tide) at 00:02. Perth recorded 7.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was operational the week prior to sampling, while the Caversham oxygenation plant was not.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was saline throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 21.2 to 23.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish on the surface over saline bottom water at NIL and brackish from STJ to RON. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 23.9 to 24.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was mostly well oxygenated to oxygenated at all sites with the exception of bottom water that was low in oxygen at SUC and KIN. Water temperature ranged from 24.4 to 25.0 °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 - 4th December 2017

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