



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

by  
**Water Science Branch, Department of Water**

Date: Monday 25<sup>th</sup> May 2015

Weather & tide conditions: Conditions fine with up to 50% cloud cover and an easterly breeze of up to 4 knots. The predicted tides at Guildford were 0.79 m (low tide) at 01:48 and 1.13 m (high tide) at 14:00. Perth recorded 0 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 all sites. Water temperature ranged from 15.2 to 16.5 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout NIL and STJ and brackish over saline at MAY and RON. Water was well oxygenated to oxygenated at all sites except for low oxygen bottom water at RON. Water temperature ranged from 16.0 to 17.2 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish over saline from BWR10 to SUC and then brackish throughout MEA to POL. Water was well oxygenated to oxygenated at all sites, except for low oxygen bottom water at BWR10 to KMO. Water temperature ranged from 14.5 to 16.9 °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 - 25th May 2015

