



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

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

Date: Monday 25<sup>th</sup> January 2016

Weather & tide conditions: Conditions were fine with up to 98% cloud cover and a predominantly east to north easterly breeze of up to 10 knots. The predicted tides at Guildford were 0.54 m (low tide) at 09:43 and 1.00 m (high tide) at 24:14. Perth recorded 6.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: Caversham oxygenation plant was operational the week prior to sampling. Guildford oxygenation plant was operational the week prior to sampling up to 23/1/2016.

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary was hyper saline throughout. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 24.1 to 26.6 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout, with the exception of brackish surface water at RON. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 27.5 to 28.6 °C.

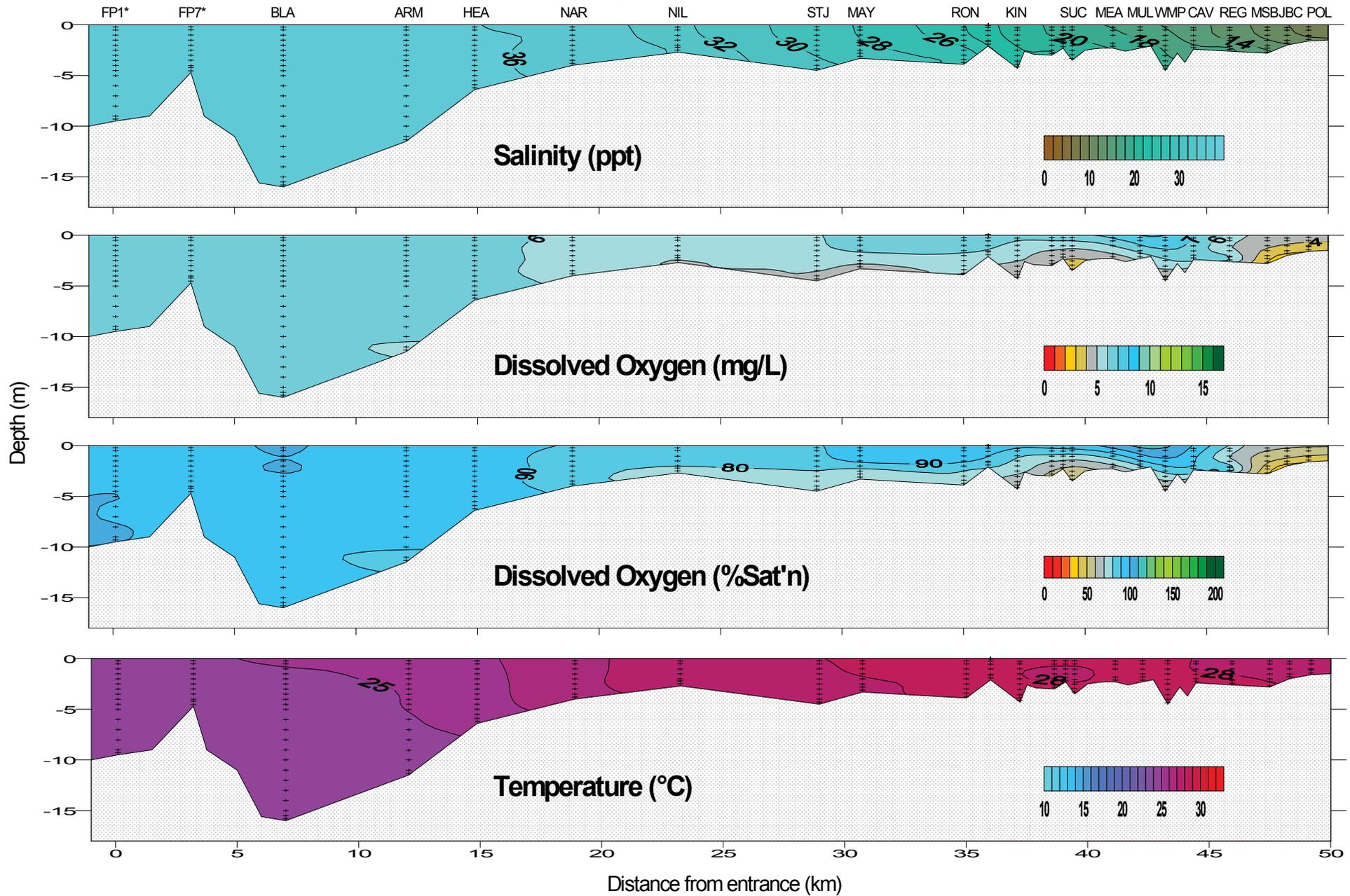
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout all sites with the exception of low oxygen bottom water at WMP and from MSB to PO2. Water temperature ranged from 27.5 to 28.6 °C.

**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 January 2016



\*Data for sites FP1 (Harbour entrance) and FP7 (Fremantle Bridge) are supplied courtesy of the Fremantle Port Authority