



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

by  
Water Science Branch, Department of Water

Date: Monday 9<sup>th</sup> January 2017

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly south easterly to easterly breeze of up to 6 knots. The predicted tides at Guildford were 0.52 m (low tide) at 07:42 and 1.07 m (high tide) at 21:31. 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 hypersaline to saline throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 22.3 to 25.1 °C

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was saline throughout with the exception of brackish surface water at STJ and MAY. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 25.6 to 28.0 °C.

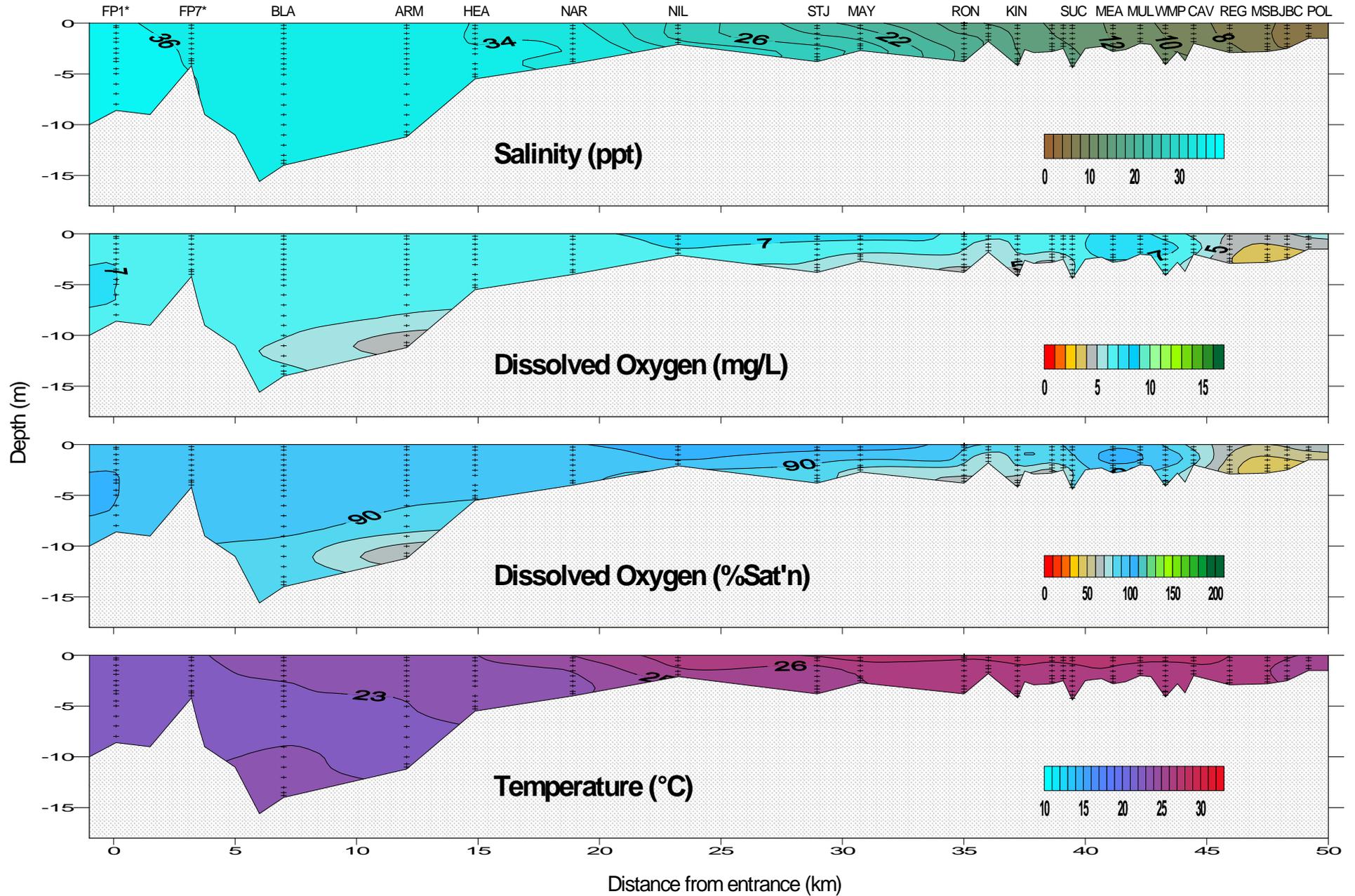
Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated at all sites with the exception of low oxygen bottom waters at KMO and from REG to JBC. Water temperature ranged from 25.5 to 28.0 °C.

**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 - 9th January 2017



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