



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

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 7<sup>th</sup> August 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a predominantly northerly breeze of up to 14 knots. The predicted tides at Guildford were 0.77 m (low tide) at 02:02 and 1.15 m (high tide) at 09:34. Perth recorded 31.2 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 (FP1 to NAR): The Lower Swan Estuary was saline from FP1 to FP7 and brackish over saline from BLA to NAR. Water was mostly well oxygenated to oxygenated throughout all sites with the exception of low oxygen bottom water at NAR. Water temperature ranged from 14.3 to 16.6 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was mostly well oxygenated to oxygenated throughout all sites with the exception of near anoxic bottom water at STJ. Water temperature ranged from 12.9 to 16.1 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated at all sites. Water temperature ranged from 12.5 to 13.5 °C.

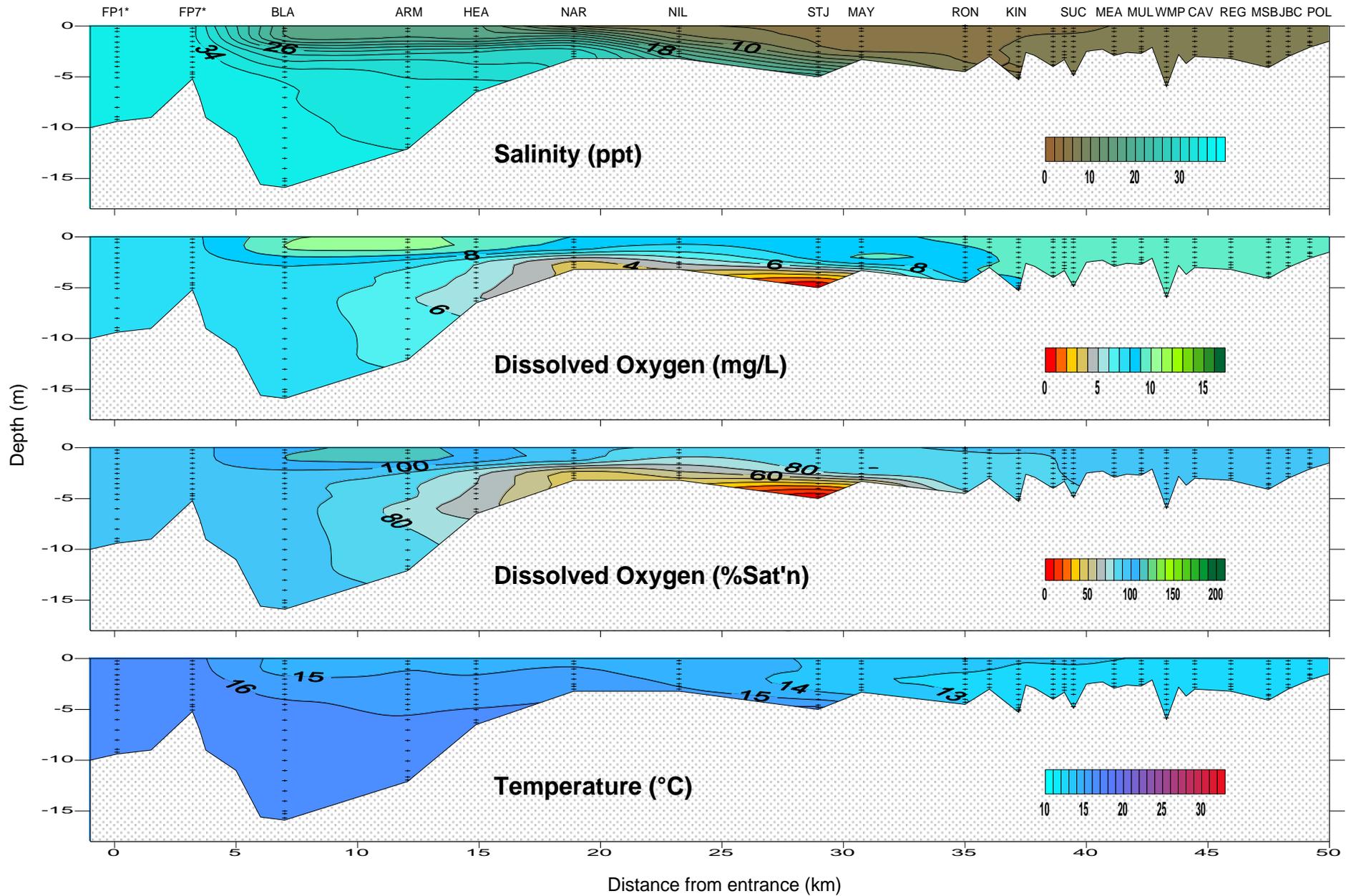
**Definitions:**

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 - 7th August 2017

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