



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

by
Water Science Branch, Department of Water

Date: Monday 26th June 2017

Weather & tide conditions: Conditions were fine with up to 20% cloud cover and a north easterly breeze of up to 10 knots. The predicted tides at Guildford were 1.23 m (high tide) at 13:06 and 0.68 m (low tide) at 23:49. Perth recorded 61.8 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 (FPI to NAR): The Lower Swan Estuary was saline to hypersaline and well oxygenated to oxygenated throughout all sites. Water temperature ranged from 14.4 to 18.4 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish at all sites, with the exception of saline bottom water at NIL and STJ. Water was well oxygenated to oxygenated on the surface of all sites, and bottom water was well oxygenated at NIL, hypoxic at STJ, low in oxygen at MAY and near anoxic at RON. Water temperature ranged from 14.5 to 16.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout all sites. Water was well oxygenated to oxygenated, with the exception of hypoxic to near anoxic bottom water at BWR10, KIN, SUC and WMP, and low oxygen bottom water at KMO. Water temperature ranged from 12.5 to 17.2 °C.

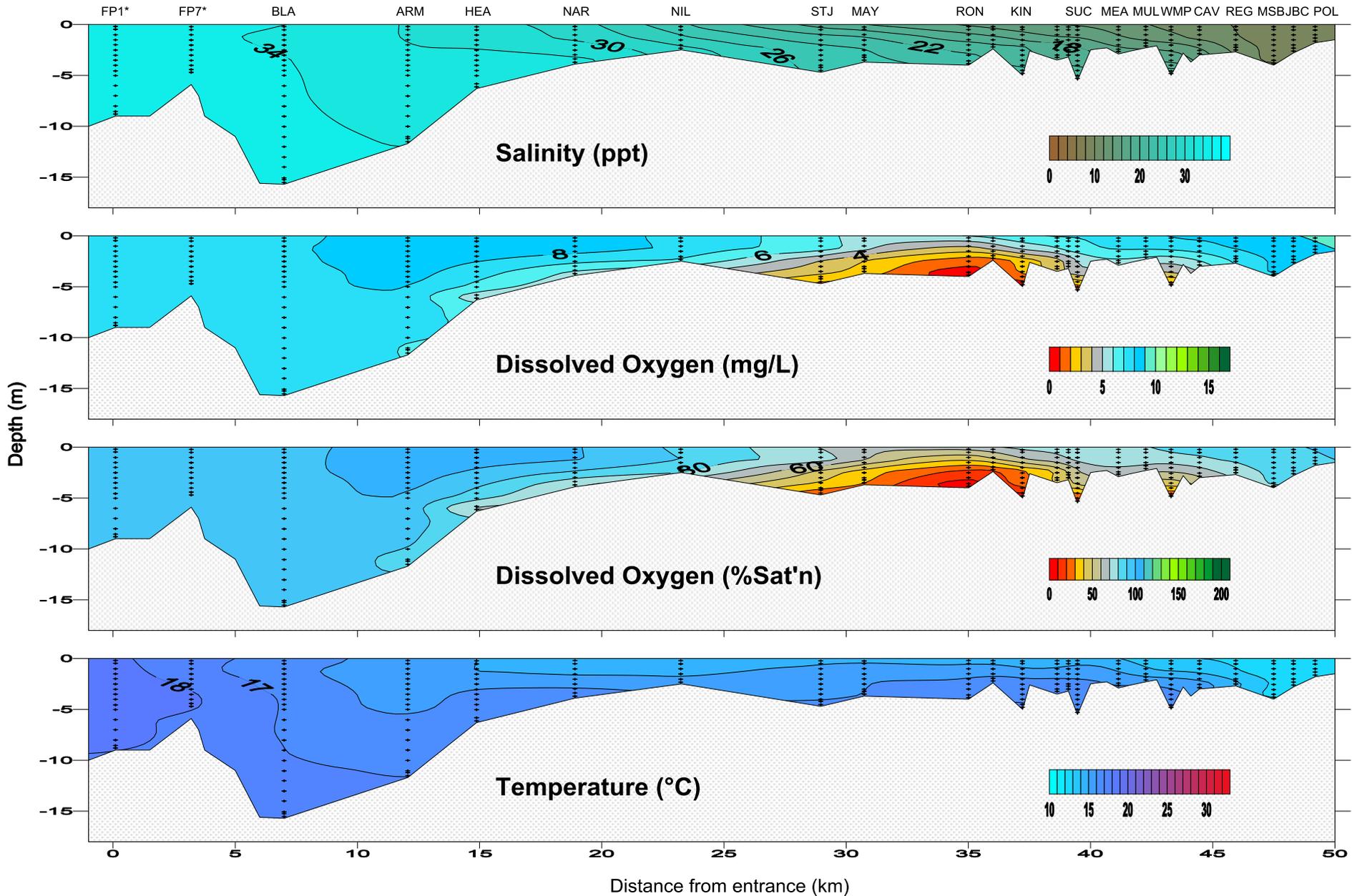
Definitions:

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 - 26th June 2017

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