



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 16th October 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a north westerly breeze of up to 25 knots. The predicted tides at Guildford were 0.85 m (high tide) at 08:25 and 0.58 m (low tide) at 15:28. Perth recorded 14.0 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were not operational the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was saline throughout BLA and brackish over saline from ARM to NAR. Water was mostly well oxygenated to oxygenated at all sites with the exception of low oxygen bottom water at NAR. Water temperature ranged from 17.3 to 20.8 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish from NIL to MAY and fresh at RON. Water was well oxygenated to oxygenated at NIL and RON and surface water was well oxygenated at STJ and MAY while bottom water was low in oxygen. Water temperature ranged from 21.4 to 22.5 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh from BWR10 to MEA and brackish from MULB FARM to POL. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 21.5 to 22.2 °C.

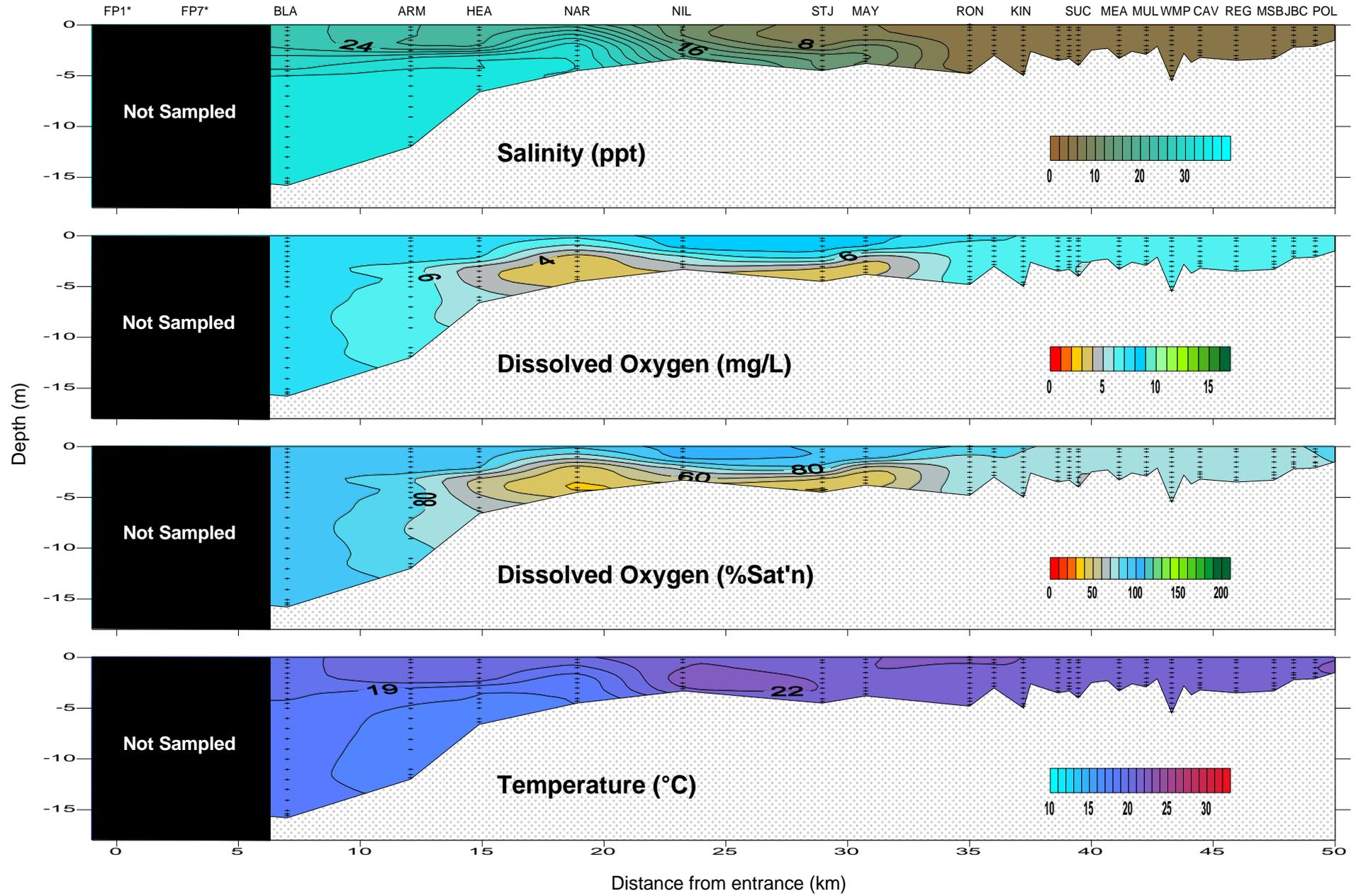
Definitions:

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 - 16th October 2017

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