



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 6th March 2018

Weather & tide conditions: Conditions were fine with up to 40% cloud cover and a predominantly north easterly breeze of up to 11 knots. The predicted tides at Guildford were 0.66 m (low tide) at 07:00 and 0.92 m (high tide) at 15:08. 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 (FPI to NAR): The Lower Swan Estuary was saline throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 22.4 to 25.0 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline at NIL, brackish over saline at STJ and MAY and brackish at RON. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 24.2 to 26.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Surface water was well oxygenated from BWR10 to CAV while bottom water was low in oxygen at BWR10 and KIN, from SUC to MULB FARM and at REG and POL. Bottom water was hypoxic at KMO, VIT, WMP, MSB and JBC and well oxygenated at CAV. Surface water was low in oxygen from REG to JBC and oxygenated at POL. Water temperature ranged from 24.8 to 27.6 °C.

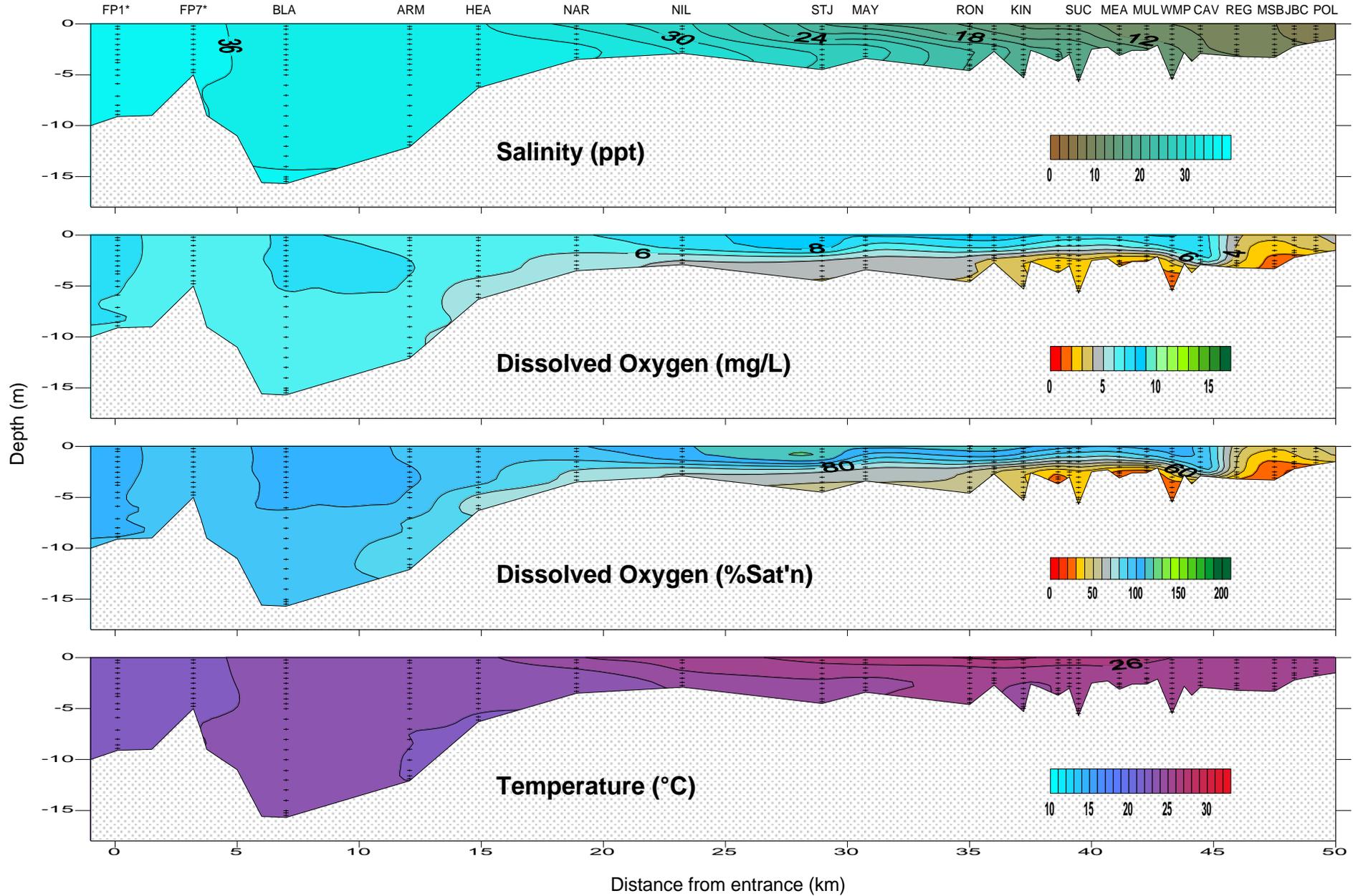
Definitions:

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 - 6th March 2018

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