



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 26th November 2018

Weather & tide conditions: Conditions were fine with 0% cloud cover and a south-easterly breeze of up to 3 knots. The predicted tides at Guildford were 1.06 m (high tide) at 00:48 and 0.46 m (low tide) at 11:26. Perth recorded 1.4 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 HEA and brackish over saline at NIL. Water was well oxygenated to oxygenated throughout, with the exception of low oxygen bottom water at HEA. Water temperature ranged from 19.8 to 22.3 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Surface water was well oxygenated to oxygenated throughout, while bottom water was low in oxygen from STJ to RON. Water temperature ranged from 21.6 to 24.6 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh from KIN to POL and fresh over brackish at BWR10. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 22.1 to 24.5 °C.

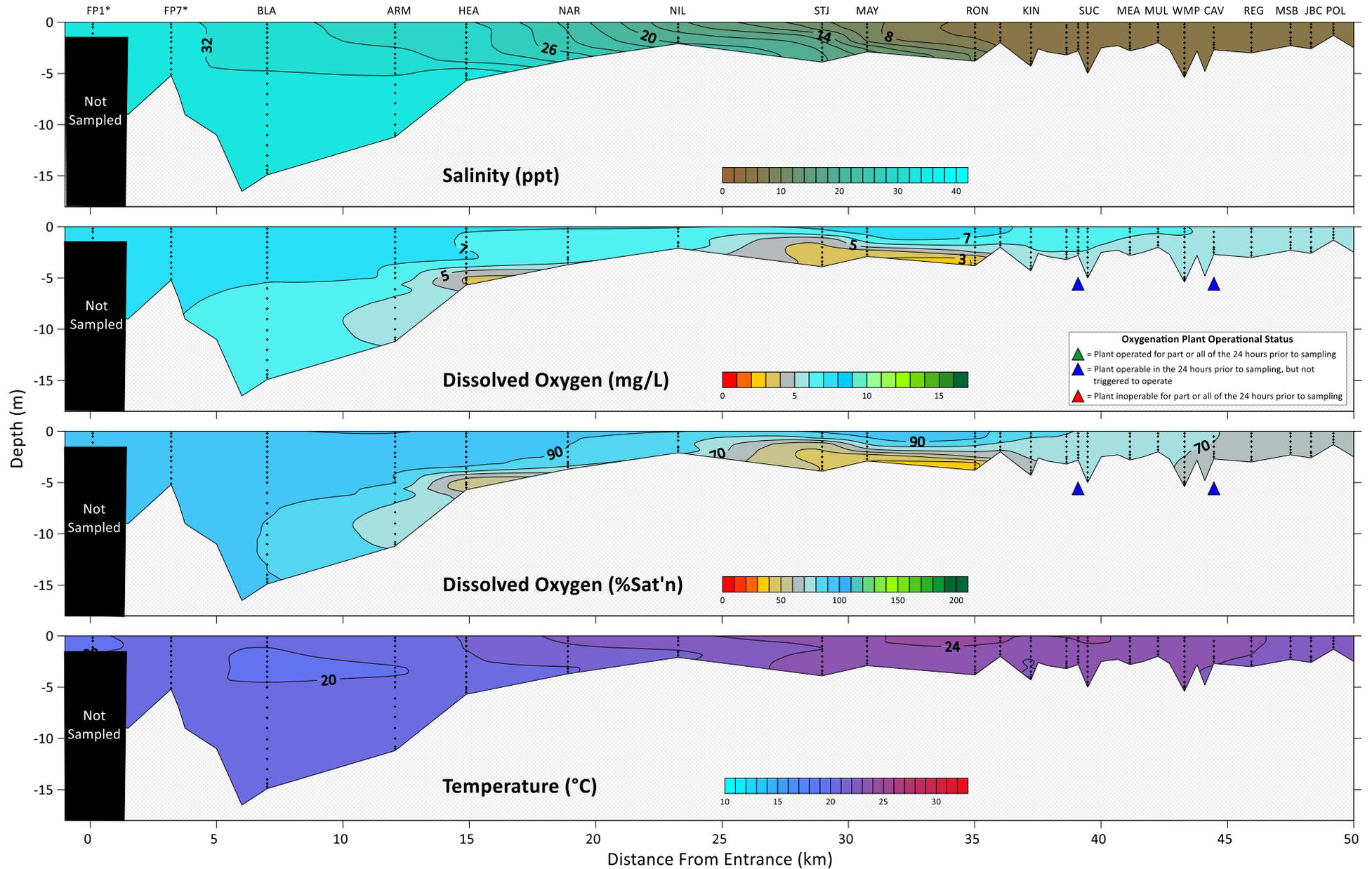
Definitions:

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 - 26th November 2018

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