



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 17th September 2018

Weather & tide conditions: Conditions were fine with up to 95% cloud cover and a southerly breeze of up to 6 knots. The predicted tides at Guildford were 0.93 m (high tide) at 03:38 and 0.59 m (low tide) at 17:21. Perth recorded 10.4 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was operational the week prior to sampling, while the Caversham oxygenation plant was not operational.

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary was saline over hypersaline at FP1, brackish over saline from FP7 to HEA and fresh over saline at NAR. Water was well oxygenated to oxygenated throughout, with the exception of bottom water low in oxygen at ARM, hypoxic at HEA and near anoxic at NAR. Water temperature ranged from 15.5 to 16.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh throughout all sites. Water was well oxygenated throughout all sites. Water temperature ranged from 15.5 to 16.6 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout all sites. Water was well oxygenated throughout all sites. Water temperature ranged from 14.7 to 16.0 °C.

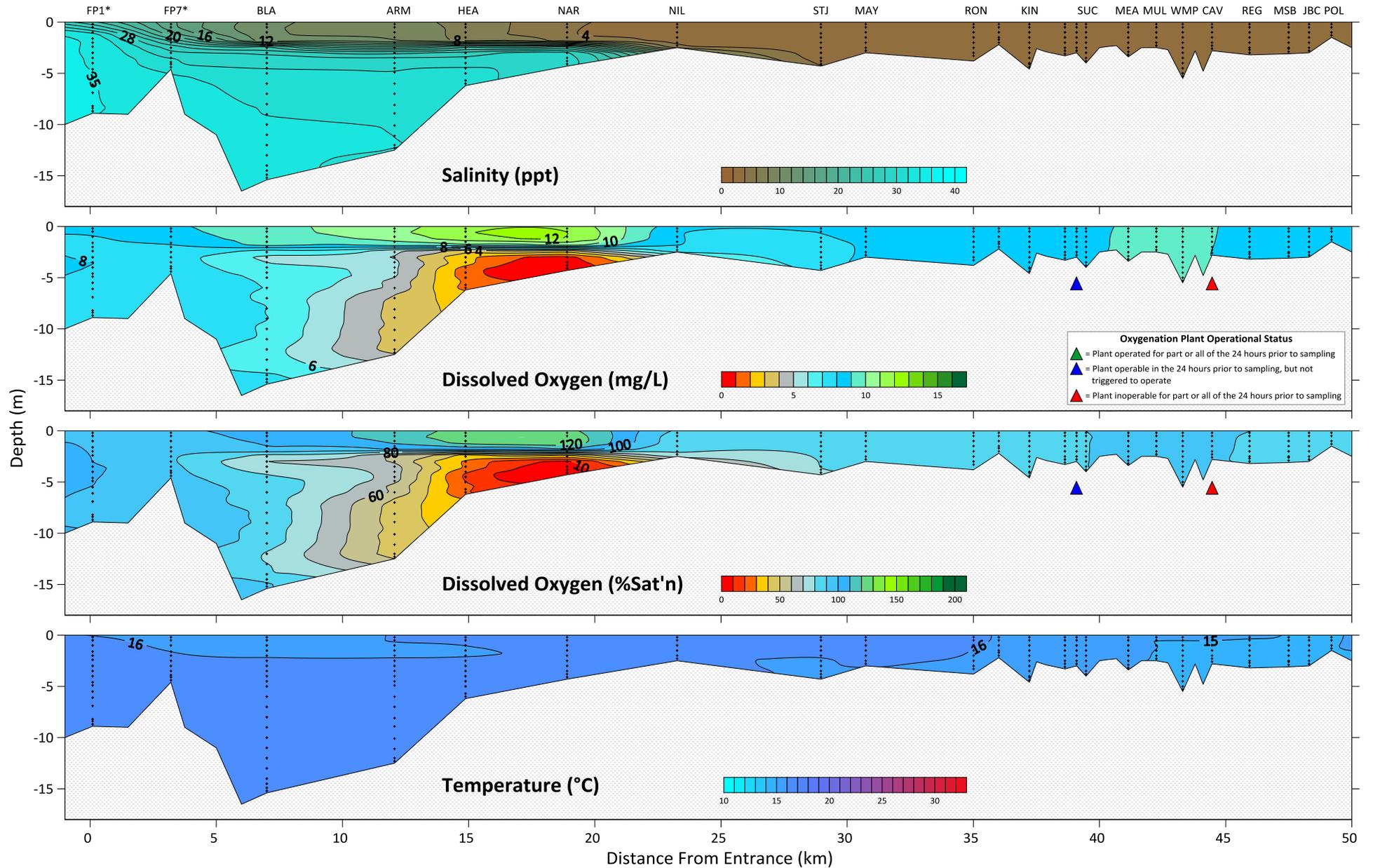
Definitions:

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 - 17th September 2018

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