



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 12th November 2018

Weather & tide conditions: Conditions were fine with up to 90% cloud cover and a north-east to south-westerly breeze of up to 6 knots. The predicted tides at Guildford were 0.99 m (high tide) at 00:53 and 0.53 m (low tide) at 11:38. Perth recorded 1.8 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 (FP1 to NAR): The Lower Swan Estuary was saline over hypersaline at FP1, saline from FP7 to ARM, and brackish over saline from HEA to NAR. Water was well oxygenated to oxygenated throughout, with the exception of low oxygen bottom water at HEA. Water temperature ranged from 19.0 to 23.8 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish from NIL to MAY and fresh over brackish at RON. Water was well oxygenated to oxygenated throughout, with the exception of bottom water low in oxygen at MAY and hypoxic at STJ. Water temperature ranged from 22.8 to 24.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout. Water was well oxygenated well oxygenated throughout. Water temperature ranged from 23.0 to 24.9 °C.

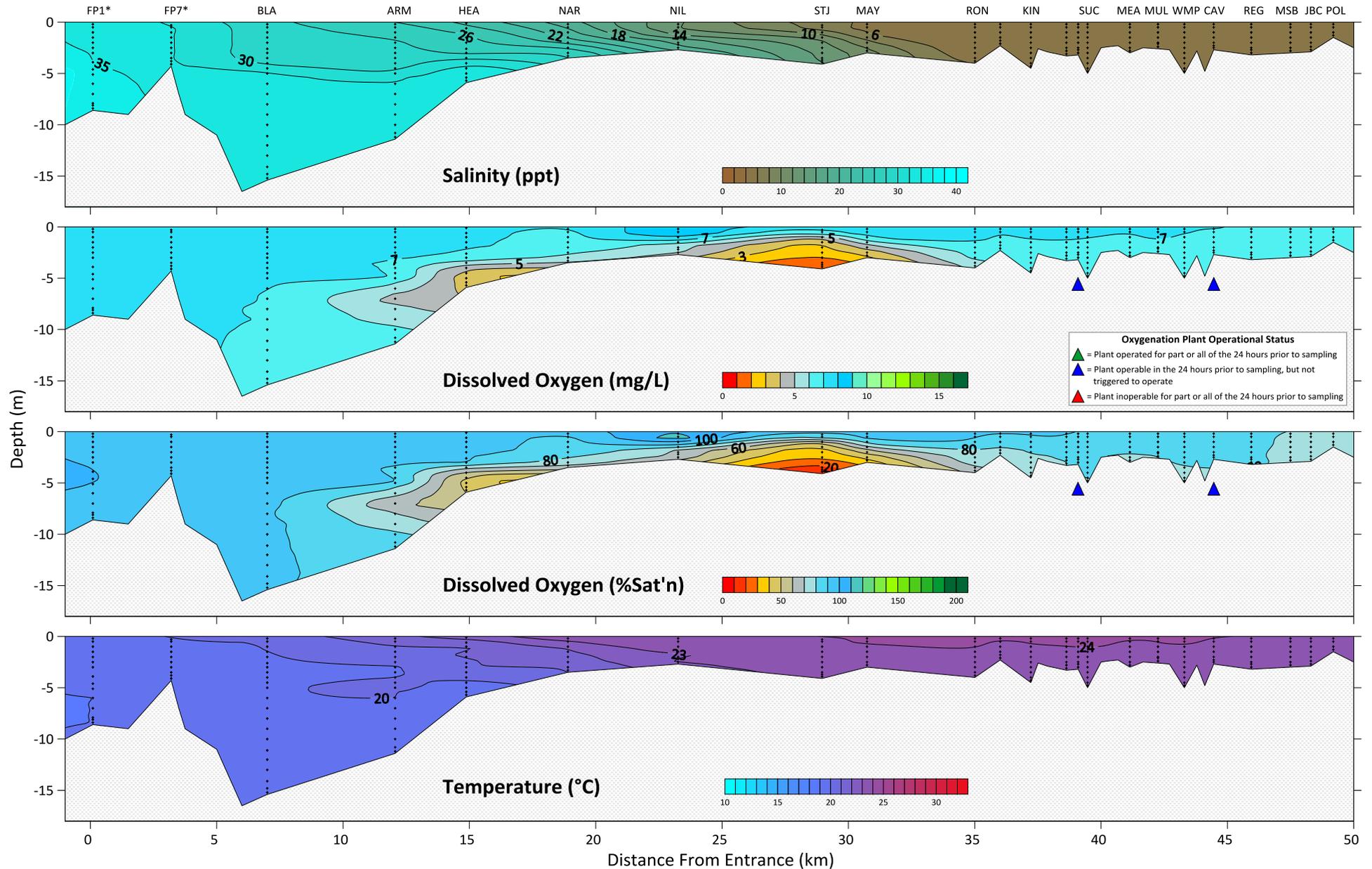
Definitions:

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 - 12th November 2018

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