



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 3rd September 2018

Weather & tide conditions: Conditions were fine and with up to 40% cloud cover and a predominantly north-easterly breeze of up to 7 knots. The predicted tides at Guildford were 0.96 m (high tide) at 04:38 and 0.63 m (low tide) at 17:21. Perth recorded 39.4 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 (FP1 to NAR): The Lower Swan Estuary was saline at FP1, brackish over saline from FP7 to ARM and fresh over saline from HEA to NAR. Water was well oxygenated to oxygenated from FP1 to ARM. Surface water was well oxygenated at HEA and NAR while bottom water was low in oxygen at HEA and hypoxic at NAR. Water temperature ranged from 15.0 to 17.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh throughout. Water was well oxygenated at all sites. Water temperature ranged from 14.8 to 15.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout. Water was well oxygenated at all sites. Water temperature ranged from 13.89 to 15.2 °C.

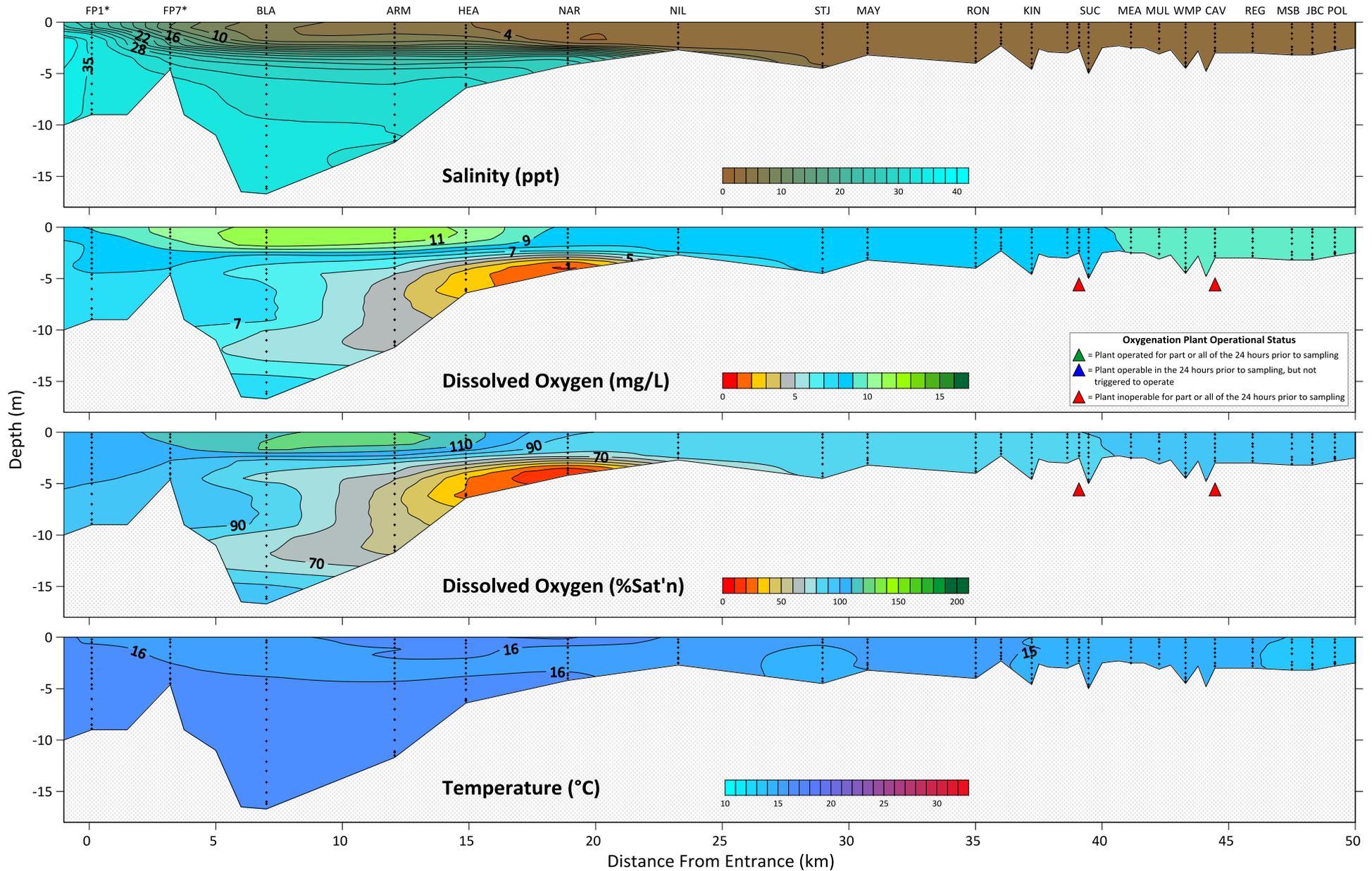
Definitions:

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 - 3rd September 2018

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