



Department of
Parks and Wildlife



SWAN CANNING
RIVERPARK

Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Monday 22nd February 2016

Weather & tide conditions: Conditions were fine with up to 90% cloud cover and a predominantly south westerly breeze of up to 11 knots. The predicted tides at Guildford were 0.59 m (low tide) at 08:28 and 0.99 m (high tide) at 23:36. Perth recorded 0.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were operational during the week prior to sampling.

Lower Swan/Canning Estuary (FPI to NAR): The Lower Swan Estuary was hyper saline throughout. Water was mostly well oxygenated with oxygenated bottom water at ARM and NAR. Water temperature ranged from 23.3 to 24.6 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout with the exception of brackish surface water at RON. Water was well oxygenated to oxygenated throughout all sites with the exception of low oxygen bottom water at RON. Water temperature ranged from 25.3 to 26.3 °C.

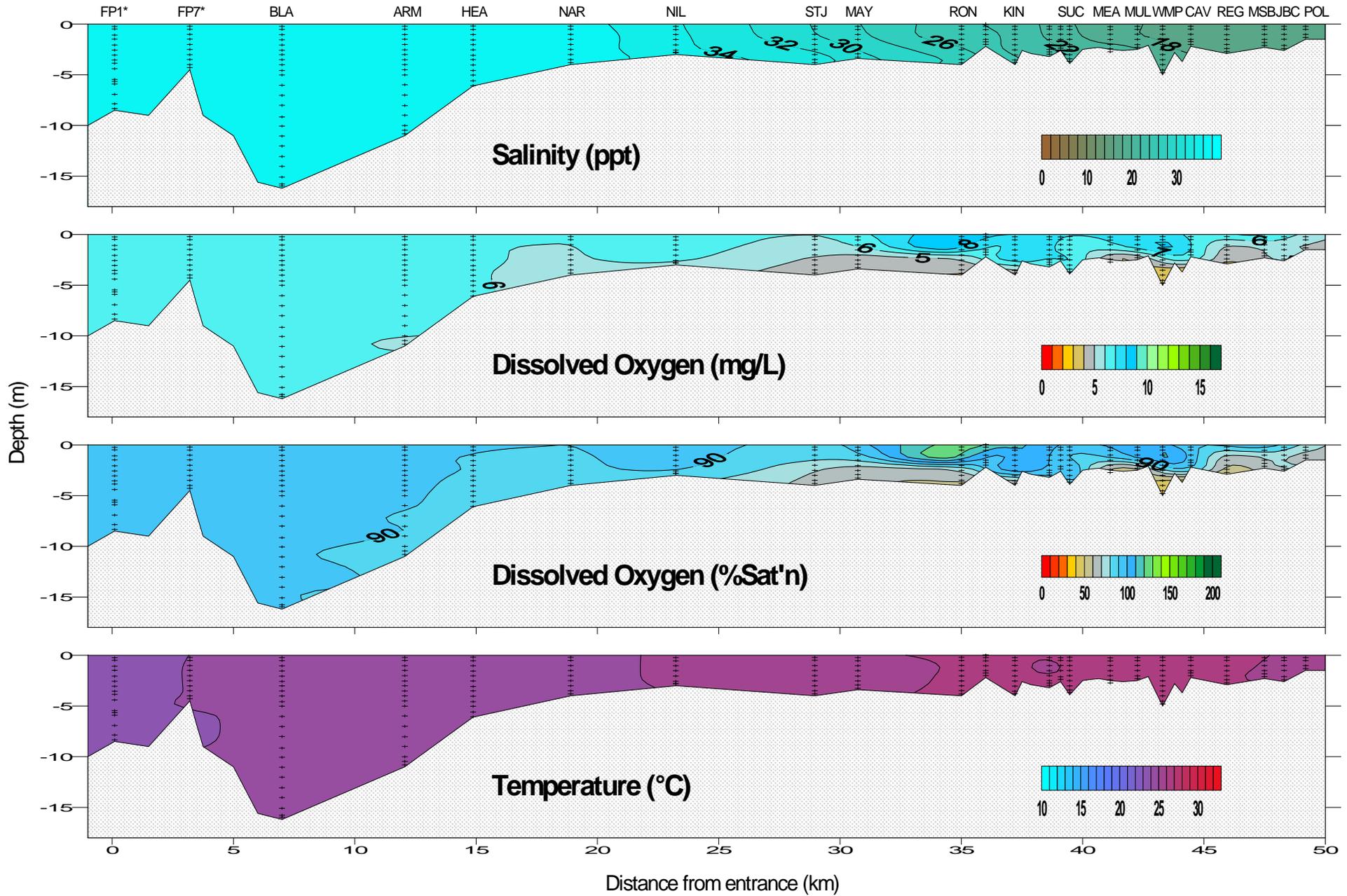
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout with the exception of saline bottom water at BWR10. Water was well oxygenated to oxygenated through all sites with the exception of low oxygen bottom water at KIN, MEA and WMP. Water temperature ranged from 25.6 to 26.9 °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 - 22nd February 2016



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