



**Environmental Monitoring and Reporting
Swan River Estuary ~ Weekly profile**

by
Water Science Branch, Department of Water

Date: Monday 25th July 2016

Weather & tide conditions: Conditions were fine with up to 50% cloud cover and an east so south easterly breeze of up to 3 knots. The predicted tides at Guildford were 0.88 m (low tide) at 06:52 and 0.94 m (high tide) at 13:24. Perth recorded 20.0 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 (FPI to NAR): The Lower Swan Estuary brackish on the surface and saline at the bottom at all sites, with the exception of saline surface water at FP1. Water was well oxygenated to oxygenated, with the exception of low oxygen bottom water at ARM to NAR, Water temperature ranged from 12.9 to 15.8 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish and well oxygenated throughout all sites. Water temperature ranged from 10.8 to 13.3 °C.

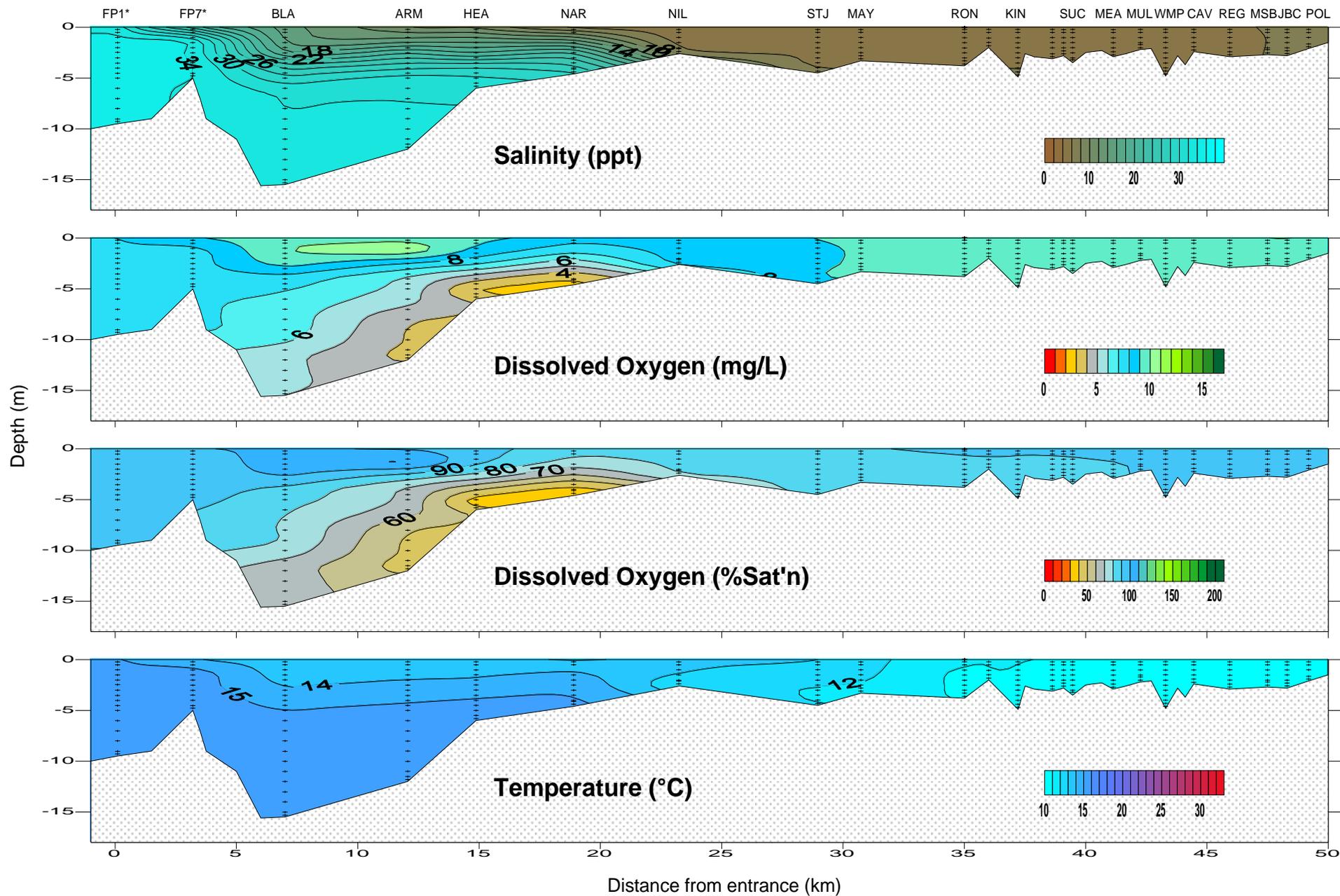
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish and well oxygenated throughout all sites. Water temperature ranged from 10.3 to 11.2 °C.

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 - 25th July 2016



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