



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

**by
Water Science Branch, Department of Water**

Date: Monday 4th May 2015

Weather & tide conditions: Conditions were partly cloudy with 30 to 90% cloud cover and a south to south westerly breeze of up to 15 knots. The predicted tides at Guildford were 0.83 m (low tide) at 03:57 and 1.14 m (high tide) at 11:53. Perth recorded 5.4 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 was hypersaline and well oxygenated throughout at all sites with the exception of saline surface water at NAR. Water temperature ranged from 17.1 to 18.6 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline and well oxygenated throughout at all sites with the exception of oxygenated bottom water at RON. Water temperature ranged from 17.6 to 18.5 °C.

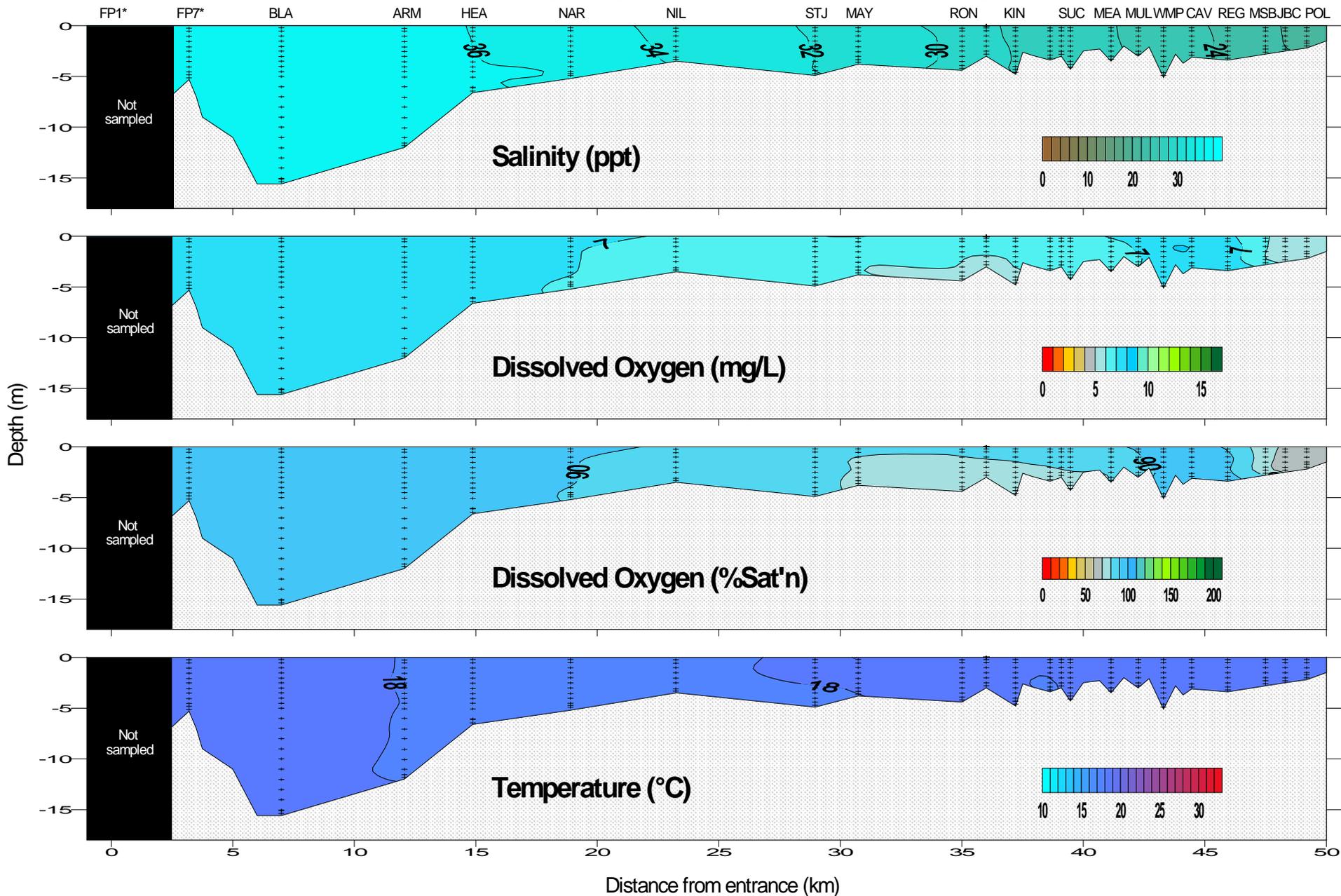
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline throughout from BWR10 to MULB FARM, brackish over saline at WMP, then brackish throughout from CAV to POL. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 17.9 to 18.7 °C.

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 - 4th May 2015



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