



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

by
Water Science Branch, Department of Water

Date: Monday 30th November 2015

Weather & tide conditions: Conditions were fine with up to 50% cloud cover and a south to south westerly breeze of up to 11.2 knots. The predicted tides at Guildford were 0.98 m (high tide) at 01:00 and 0.53 m (low tide) at 12:07. Perth recorded 0 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: Guildford oxygenation plant was operational the week prior to sampling. Caversham oxygenation plant was not operational the week prior to sampling.

Lower Swan/Canning Estuary (FPI to NAR): The Lower Swan Estuary was saline to hypersaline throughout all sites. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 21.4 to 23.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline at NIL, brackish over saline at STJ and brackish throughout MAY and RON. Water was well oxygenated on the surface and oxygenated on the bottom at all sites. Water temperature ranged from 24.5 to 27.2 °C.

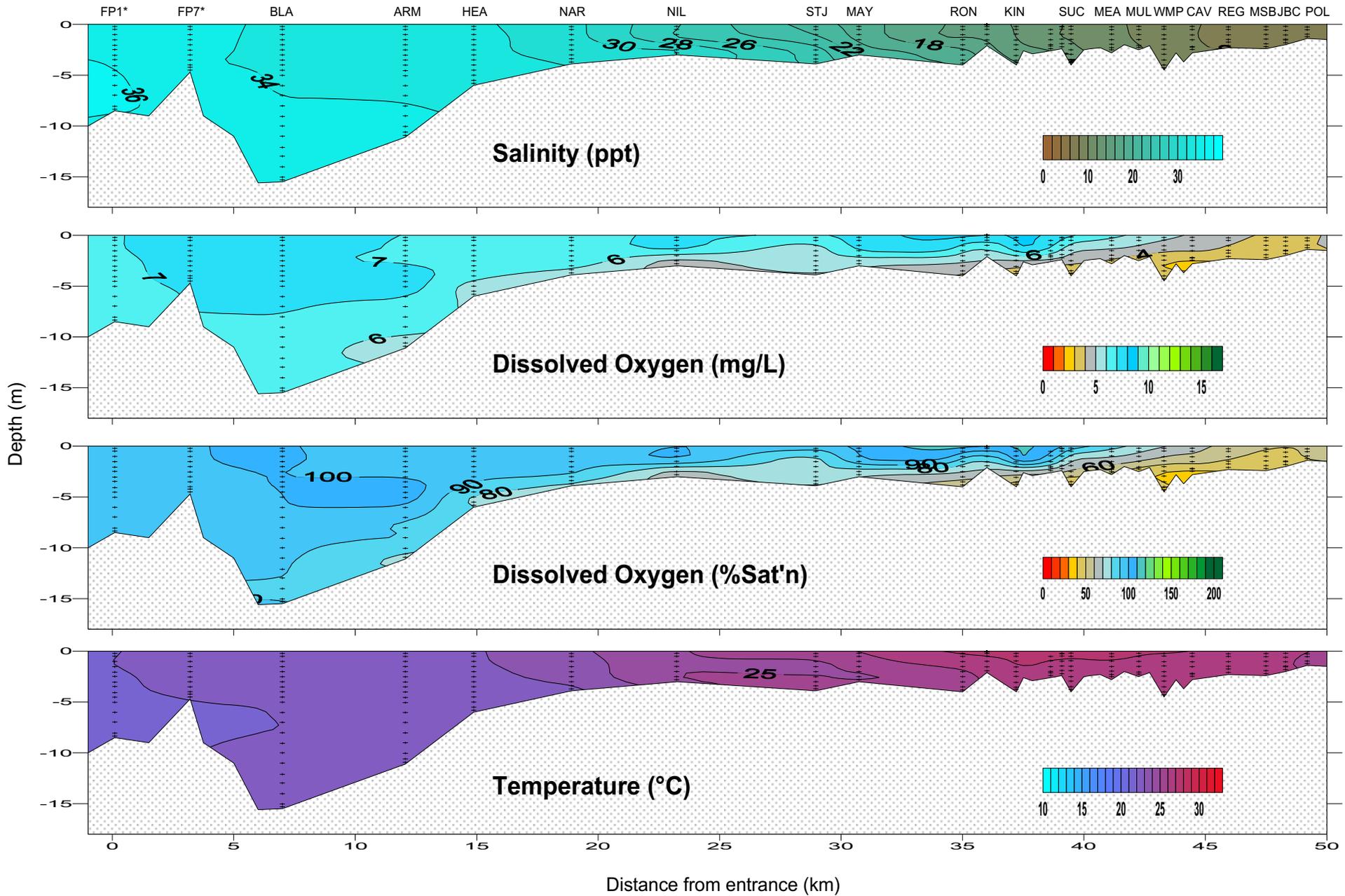
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout all sites. Water was well oxygenated to oxygenated at all sites, with the exception of low oxygen bottom water at KIN and SUC to POL and low oxygen surface water at MSB and JBC. Water temperature ranged from 25.8 to 27.6 °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 - 30th November 2015



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