



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

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

Date: Monday 20th April 2015

Weather & tide conditions: Conditions were fine with 0% cloud cover and a north easterly breeze of up to 11 knots. The predicted tides at Guildford were 0.79 m (low tide) at 03:57 and 1.11 m (high tide) at 12:54. 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 the week prior to sampling.

Lower Swan/Canning Estuary (FPI to NAR): The Lower Swan Estuary was hypersaline and well oxygenated throughout all sites. Water temperature ranged from 19.7 to 20.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout all sites. Water was well oxygenated on the surface over oxygenated bottom water throughout. Water temperature ranged from 19.7 to 21.0 °C.

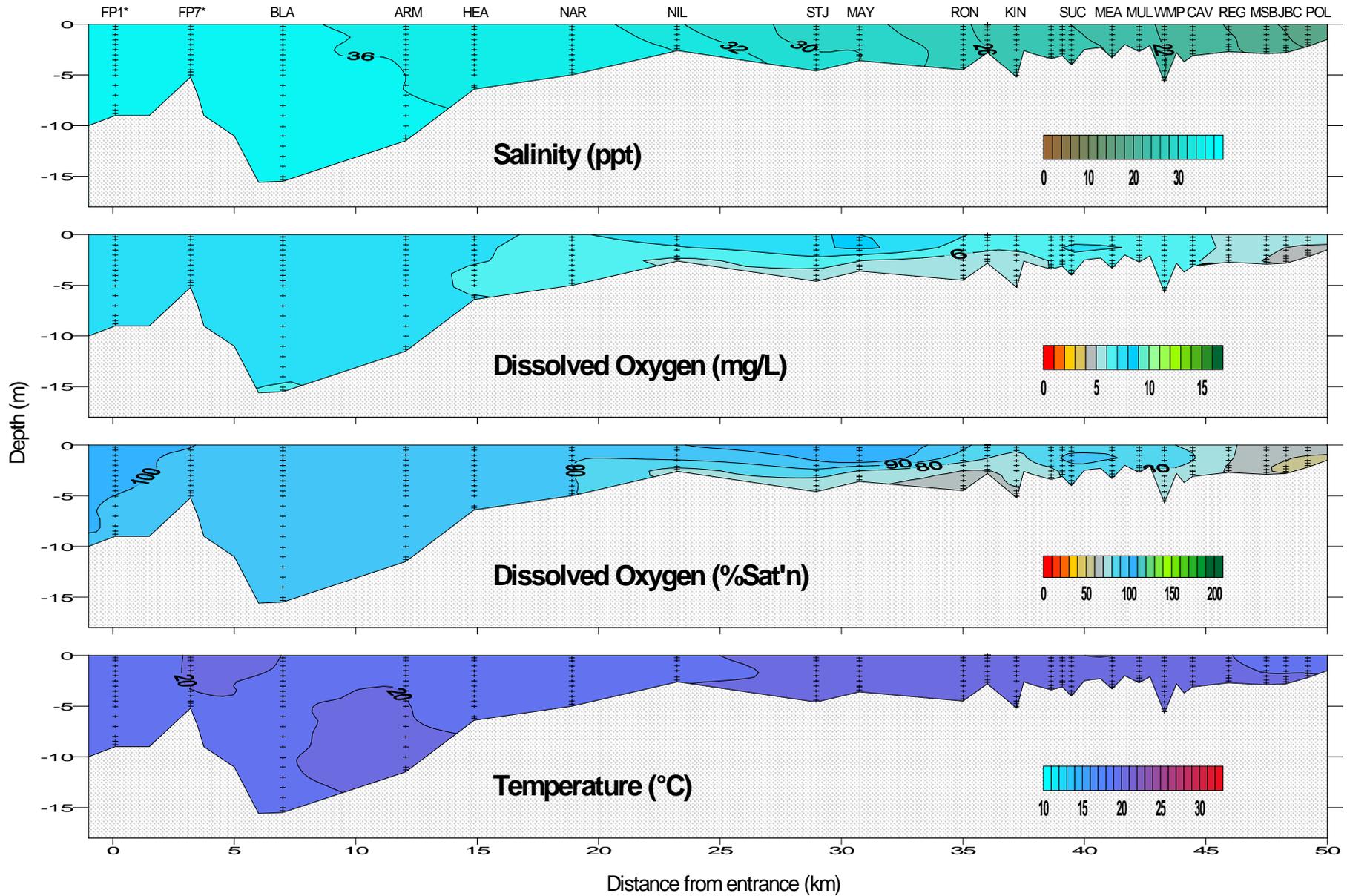
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline throughout BWR10, brackish over saline at KIN and brackish throughout KMO to POL. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 19.4 to 21.2 °C.

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 - 20 April 2015



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