



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

by
Water Science Branch, Department of Water

Date: Monday 31st October 2016

Weather & tide conditions: Conditions were fine with 0% cloud cover and a east to south easterly breeze of up to 13 knots. The predicted tides at Guildford were 0.59 m (low tide) at 07:55 and 0.70 m (high tide) at 13:38. Perth recorded 4.4 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 (FP7 to NAR): The Lower Swan Estuary was saline throughout FP7 and BLA and brackish over saline from ARM to NAR. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 17.6 to 19.9 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was brackish throughout all sites. Water was well oxygenated throughout NIL and STJ and MAY were well oxygenated on the surface over near anoxic bottom water. Water temperature ranged from 20.2 to 22.4 °C.

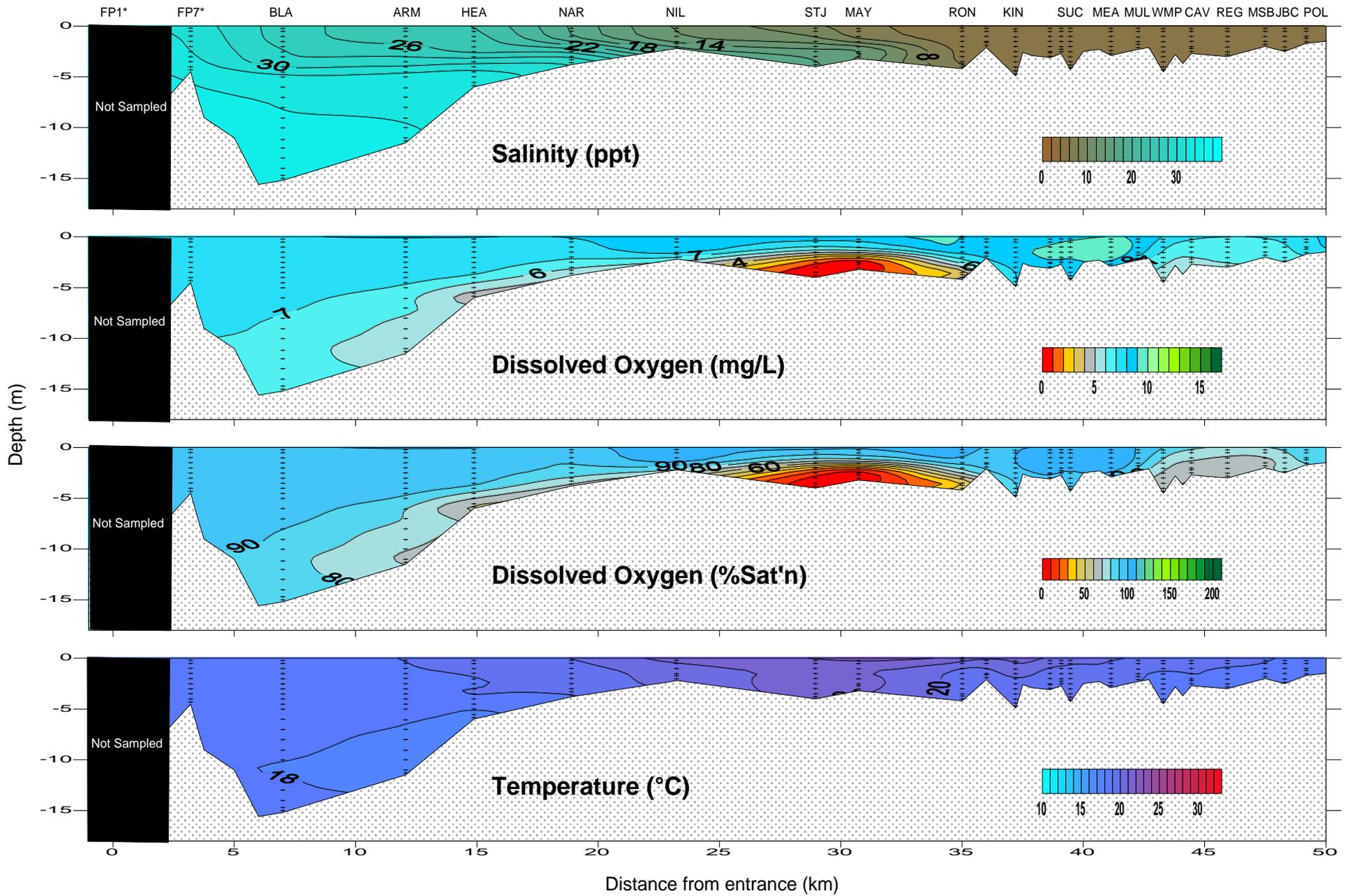
Upper Swan Estuary (RON to POL): The Upper Swan Estuary was fresh over brackish at RON, KMO, VIT and JBC, fresh throughout KIN and brackish throughout SUC to MSB and POL. Water was well oxygenated to oxygenated throughout all sites, except for low oxygen bottom water at RON. Water temperature ranged from 18.4 to 22.3 °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 - 31st October 2016



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