



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

by  
Water Science Branch, Department of Water

Date: Monday 10<sup>th</sup> October 2016

Weather & tide conditions: Conditions were fine with up to 10% cloud cover and a predominantly south easterly breeze of up to 7 knots. The predicted tides at Guildford were 0.88 m (high tide) at 04:12 and 0.58 m (low tide) at 16:00. Perth recorded 16.2 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 (BLA to NAR): Surface water in the lower Swan Canning Estuary was well oxygenated and brackish throughout. Bottom water was saline throughout and well oxygenated at BLA, oxygenated at ARM and had low oxygen at HEA and NAR. Water temperature ranged from 15.9 to 17.5 °C.

Middle Swan Estuary (NIL to MAY): Surface water in the middle Swan Estuary was well oxygenated throughout, brackish at NIL and fresh at STJ, MAY and RON. Bottom water was brackish throughout and well oxygenated at all sites except STJ where it was hypoxic. Water temperature ranged from 17.5 to 18.8 °C.

Upper Swan Estuary (RON to POL): The Upper Swan Estuary was fresh and well oxygenated throughout. Water temperature ranged from 15.3 to 17.5 °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 - 10th October 2016

