



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

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 13th August 2018

Weather & tide conditions: Conditions were fine with 0% cloud cover and a north to north-easterly breeze of up to 9.9 knots. The predicted tides at Guildford were 1.07 m (high tide) at 13:10 and 0.68 m (low tide) at 22:39. Perth recorded 32.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham oxygenation plant was operational up to 7/8/18 while the Guildford oxygenation plant was not operational the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was fresh over saline at all sites, with the exception of brackish bottom water at NAR. Water was well oxygenated to oxygenated with the exception of low oxygen bottom water at HEA. Water temperature ranged from 12.6 to 16.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh and well oxygenated throughout. Water temperature ranged from 12.4 to 12.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh and well oxygenated throughout. Water temperature ranged from 12.0 to 12.6 °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 Profiles 13th August 2018

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