



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 6th November 2017

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly north easterly breeze of up to 15 knots. The predicted tides at Guildford were 1.01 m (high tide) at 00:11 and 0.50 m (low tide) at 10:07. Perth recorded 0 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was operational from 3rd November, while the Caversham oxygenation plant was not operational the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was saline from BLA to HEA and brackish on the surface over saline bottom water at NAR. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 18.8 to 22.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 22.6 to 24.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated at all sites. Water temperature ranged from 22.7 to 24.4 °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 - 6th November 2017

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