



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 25th September 2018

Weather & tide conditions: Conditions were cloudy with up to 95% cloud cover and a west to south-westerly breeze of up to 5 knots. The predicted tides at Guildford were 0.68 m (low tide) at 05:35 and 0.84 m (high tide) at 12:08. Perth recorded 0.4 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was brackish over saline throughout. Water was well oxygenated to oxygenated throughout with the exception of hypoxic bottom water at HEA and near anoxic bottom water at NAR. Water temperature ranged from 16.5 to 19.9 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh over brackish at NIL and fresh from STJ to RON. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 18.5 to 19.8 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout. Water was well oxygenated throughout. Water temperature ranged from 18.0 to 19.6 °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 25th September 2018

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