



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 10th September 2018

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover, and a westerly breeze of up to 8 knots. The predicted tides at Guildford were 0.70 m (low tide) at 04:56 and 0.97 m (high tide) at 12:35. Perth recorded 22.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was operational from 5/9/18, 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 brackish over saline throughout. Water was mostly well oxygenated to oxygenated with the exception of hypoxic bottom water at HEA and NAR. Water temperature ranged from 16.2 to 17.5 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh throughout. Water was well oxygenated at all sites. Water temperature ranged from 15.5 to 17.2 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout. Water was well oxygenated at all sites. Water temperature ranged from 15.3 to 16.6 °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 10th September 2018

Prepared by Aquatic Science Branch, Department of Water and Environmental Regulation

