



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 26th February 2018

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a predominantly south westerly breeze of up to 6 knots. The predicted tides at Guildford were 0.51 m (low tide) at 07:08 and 1.09 m (high tide) at 21:07. Perth recorded 0 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): The Lower Swan Estuary was hypersaline to saline throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 23.8 to 24.4 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline at NIL, brackish over saline at STJ and MAY and brackish at RON. Water was mostly well oxygenated to oxygenated at all sites with the exception of bottom water that was low in oxygen at RON. Water temperature ranged from 24.8 to 26.1 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Surface water was well oxygenated to oxygenated from BWR10 to CAV while bottom water was low in oxygen at BWR10 and from MEA to WMP and oxygenated from KIN to SUC and at CAV. Water was low in oxygen throughout REG to POL. Water temperature ranged from 25.8 to 26.9 °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 - 26th February 2018

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