



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Monday 18th July 2016

Weather & tide conditions: Conditions were fine with up to 10% cloud cover and a southerly breeze of up to 3 knots. The predicted tides at Guildford were 1.19 m (high tide) at 10:30 and 0.71 m (low tide) at 20:50. Perth recorded 39.8 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 saline throughout BLA and brackish over saline from ARM to NAR. Water was well oxygenated to oxygenated throughout, with the exception of low oxygen bottom water at HEA. Water temperature ranged from 12.6 to 16.0 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout NIL to MAY and fresh throughout RON. Surface water was well oxygenated at all sites, and bottom water was low in oxygen at NIL, hypoxic at STJ and MAY and well oxygenated at RON. Water temperature ranged from 13.3 to 14.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh and well oxygenated throughout all sites. Water temperature ranged from 12.7 to 13.1 °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 - 18th July 2016

