



Department of
Parks and Wildlife



**SWAN CANNING
RIVERPARK**

Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Monday 19th June 2017

Weather & tide conditions: Conditions were fine with up to 2% cloud cover and a south easterly breeze of up to 2 knots. The predicted tides at Guildford were 1.07 m (high tide) at 08:54 and 0.87 m (low tide) at 00:22. Perth recorded 26.2 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 saline and well oxygenated to oxygenated throughout all sites. Water temperature ranged from 15.6 to 17.8 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish over saline at all sites. Surface water was well oxygenated at all sites, and bottom water was oxygenated at NIL and near anoxic at STJ to RON. Water temperature ranged from 15.7 to 17.5 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish over saline from BWR10 to MULB FARM and brackish throughout WMP to POL. Water was well oxygenated on the surface of all sites, and bottom water was near anoxic from BWR10 to KMO and SUC, hypoxic at VIT and from MEA to WMP, well oxygenated to oxygenated at CAV to JBC and low in oxygen at POL. Water temperature ranged from 12.8 to 17.5 °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 - 19th June 2017

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