



**Environmental Monitoring and Reporting
Swan River Estuary ~ Weekly profile**

**by
Water Science Branch, Department of Water**

Date: Monday 8th June 2015

Weather & tide conditions: Conditions were fine with up to 80% cloud cover and an easterly to north easterly breeze of up to 2 knots. The predicted tides at Guildford were 0.75 m (low tide) at 01:00 and 1.10 m (high tide) at 14:39. Perth recorded 11.2 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 was saline and well oxygenated throughout. Water temperature ranged from 16.4 to 17.4 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout with the exception of brackish surface water at RON. Surface water was well oxygenated over oxygenated bottom water at NIL, STJ and RON. MAY was oxygenated throughout. Water temperature ranged from 16.5 to 17.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout with the exception of saline bottom water at BWR10 and KIN. Water was mostly well oxygenated throughout with the exception of low oxygen bottom water at BWR10, KIN, KMO and POL, and oxygenated bottom water at MSB and JBC. Water temperature ranged from 13.2 to 17.7 °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 - 8th June 2015

