



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

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

Date: Monday 2nd February 2015

Weather & tide conditions: Conditions were cloudy with up to 98% cloud cover and a predominantly north easterly breeze of up to 6 knots. The predicted tides at Guildford were 0.54 m (low tide) at 07:35 and 1.04 m (high tide) at 22:47. Perth recorded 28.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham and Guildford oxygenation plants were operational the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was hypersaline throughout from BLA to HEA, and saline throughout at NAR. Water was well oxygenated throughout except for oxygenated bottom water at NAR. Water temperature ranged from 23.4 to 24.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout except for brackish surface water at RON. Water was well oxygenated over oxygenated at NIL and MAY, and oxygenated throughout at STJ and RON. Water temperature ranged from 24.1 to 24.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was low in oxygen throughout from REG to POL, and well oxygenated to oxygenated at all other sites. Water temperature ranged from 24.1 to 25.8 °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 - 2nd February 2015

