



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

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

Date: Monday 16th February 2015

Weather & tide conditions: Conditions were cloudy with up to 60% cloud cover and a predominantly south westerly to south easterly breeze of up to 8 knots. Tide predictions at Guildford were 0.52 m (low tide) at 07:39 and 1.09 m (high tide) at 22:04. Perth recorded 0.4 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 mostly hypersaline throughout with the exception of saline surface water at NAR. Water was well oxygenated throughout except for oxygenated bottom water at HEA and NAR. Water temperature ranged from 23.4 to 24.3 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout at NIL to MAY. RON was brackish throughout. Water was well oxygenated over oxygenated at NIL and RON, and oxygenated throughout at STJ and MAY. Water temperature ranged from 24.4 to 25.5 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water at BWR10 to CAV was well oxygenated to oxygenated. Water at REG and POL was oxygenated over low oxygen and water at MSB and JBC was low oxygen throughout. Water temperature ranged from 25.1 to 26.2 °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 - 16th February 2015

