



# Swan Canning Estuary Water Quality Monitoring Project

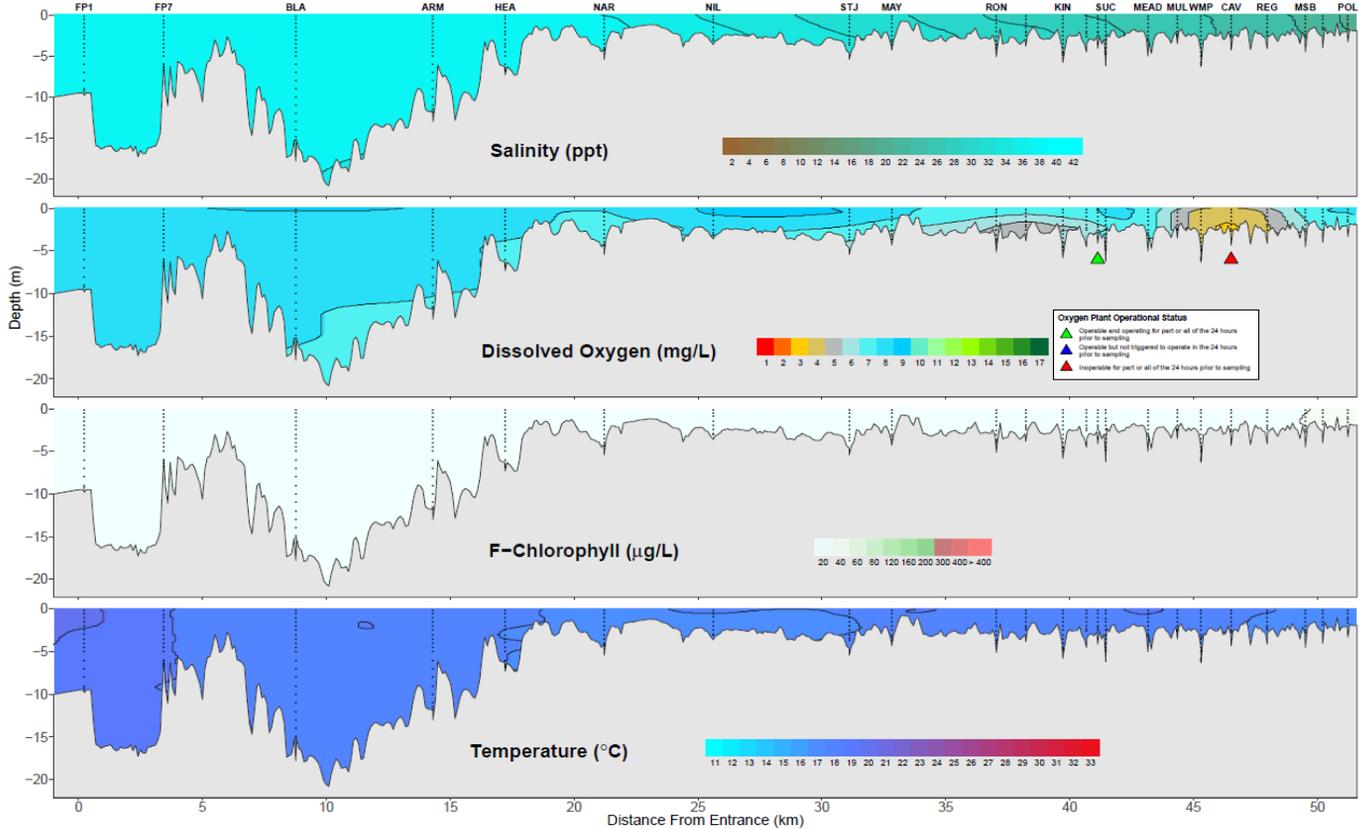
**Weekly Profile Report for the  
Lower to Upper Swan Estuary**

11<sup>th</sup> May 2020

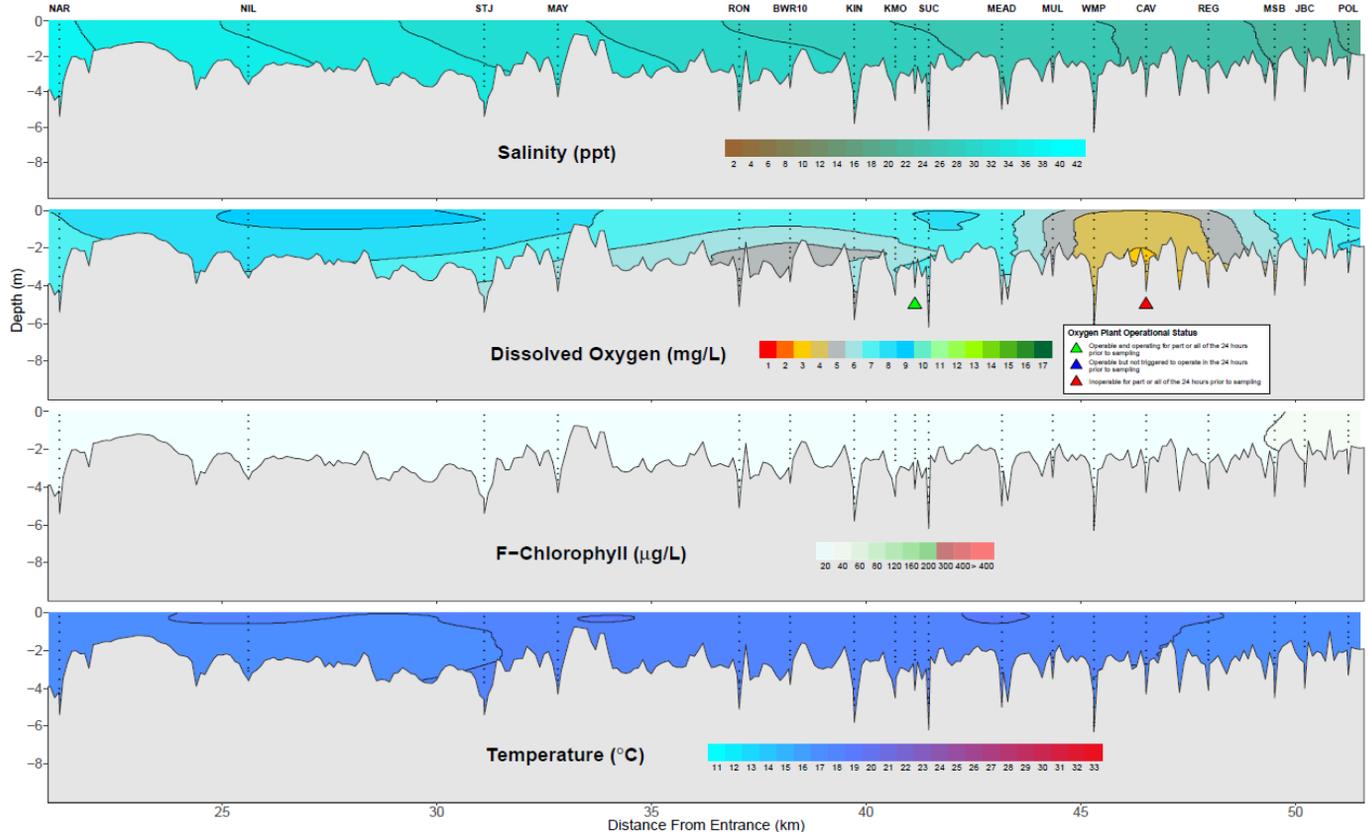
Prepared by

**Rivers and Estuaries Science  
Biodiversity and Conservation Science  
Department of Biodiversity, Conservation and Attractions**

### Swan River Estuary – Physical-Chemical Profile – 11th May 2020



### Middle and Upper Swan River Estuary – Physical-Chemical Profile – 11th May 2020



Date: 11<sup>th</sup> April 2020

Weather & tide conditions: Conditions were overcast with a variable breeze of up to 6 knots. The predicted tides at Barrack St were 0.64 m at 12:08 am (low tide overnight ) and 1.22 m at 1:14 pm (high tide). Perth recorded 32.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was triggered to provide oxygen and the Caversham oxygenation plant was not operational during the 24 hours prior to sampling.

Lower Swan Canning Estuary (BLA to NAR): The Lower Swan Canning Estuary was saline, waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 16.4 to 19.3 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline, waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 16.4 to 17.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline from BWR10 to SUC, brackish over saline at MEAD and brackish from MULB FARM to POL. Surface waters were oxygenated or well oxygenated except at WMP and CAV which were low in oxygen. Bottom waters were low in oxygen between WMP and REG. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 16.2 to 18.3 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at [wir.water.wa.gov.au](http://wir.water.wa.gov.au).

**Oxygenation Plant Operational Status:**

- ▲ Operating for part or all of the 24 hours prior to sampling
- ▲ Operable but not triggered to operate in the 24 hours prior to sampling
- ▲ Inoperable for part or all of the 24 hours prior to sampling

**Definitions:**

Salinity – fresh <5, brackish 5-25, saline 25-35, hypersaline >35  
Dissolved oxygen – well oxygenated >6mg/L, oxygenated >4-6mg/L, low oxygen >2-4mg/L, hypoxic 0.5-2mg/L, anoxic <0.5mg/L