



# Swan Canning Estuary Water Quality Monitoring Project

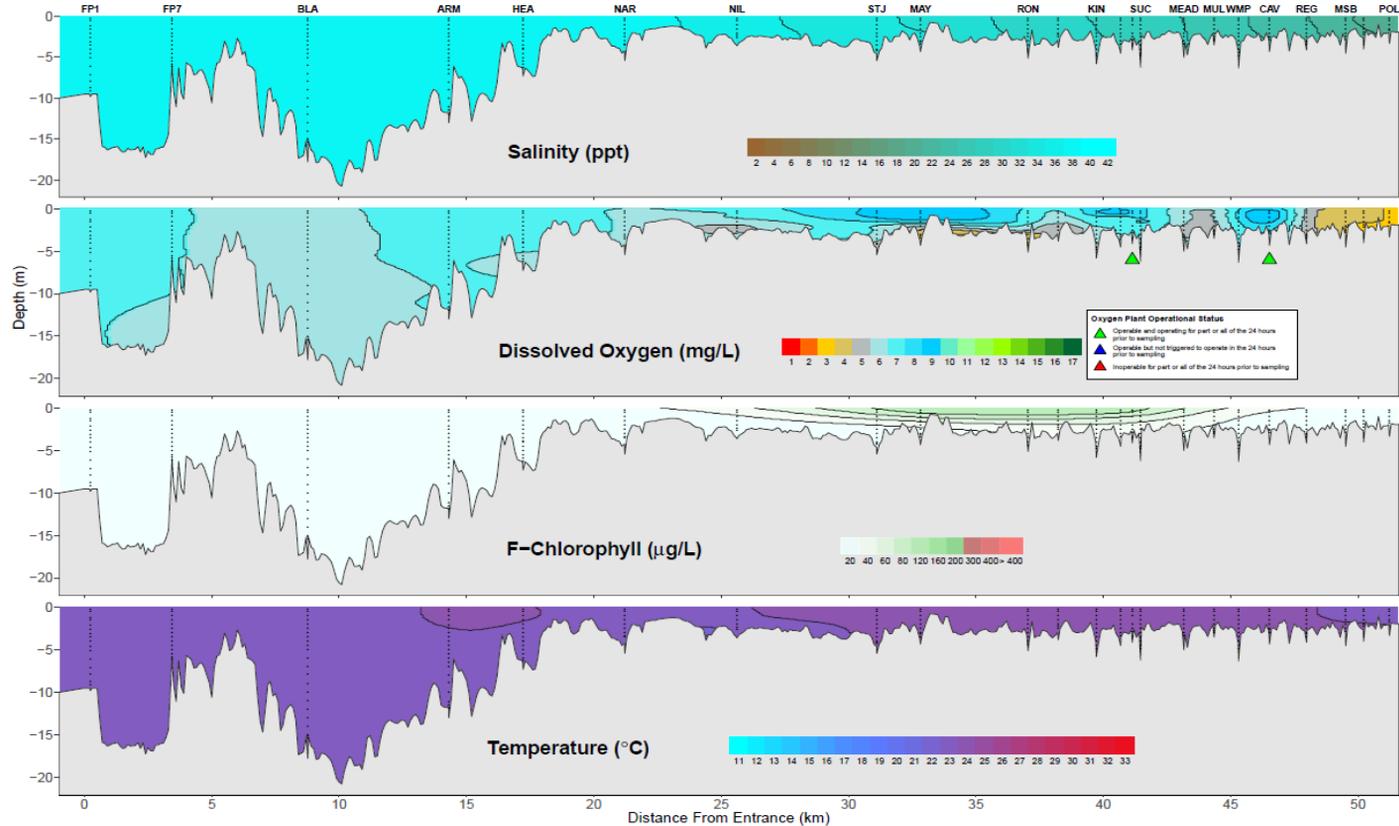
**Weekly Profile Report for the  
Lower to Upper Swan Estuary**

**30<sup>th</sup> March 2020**

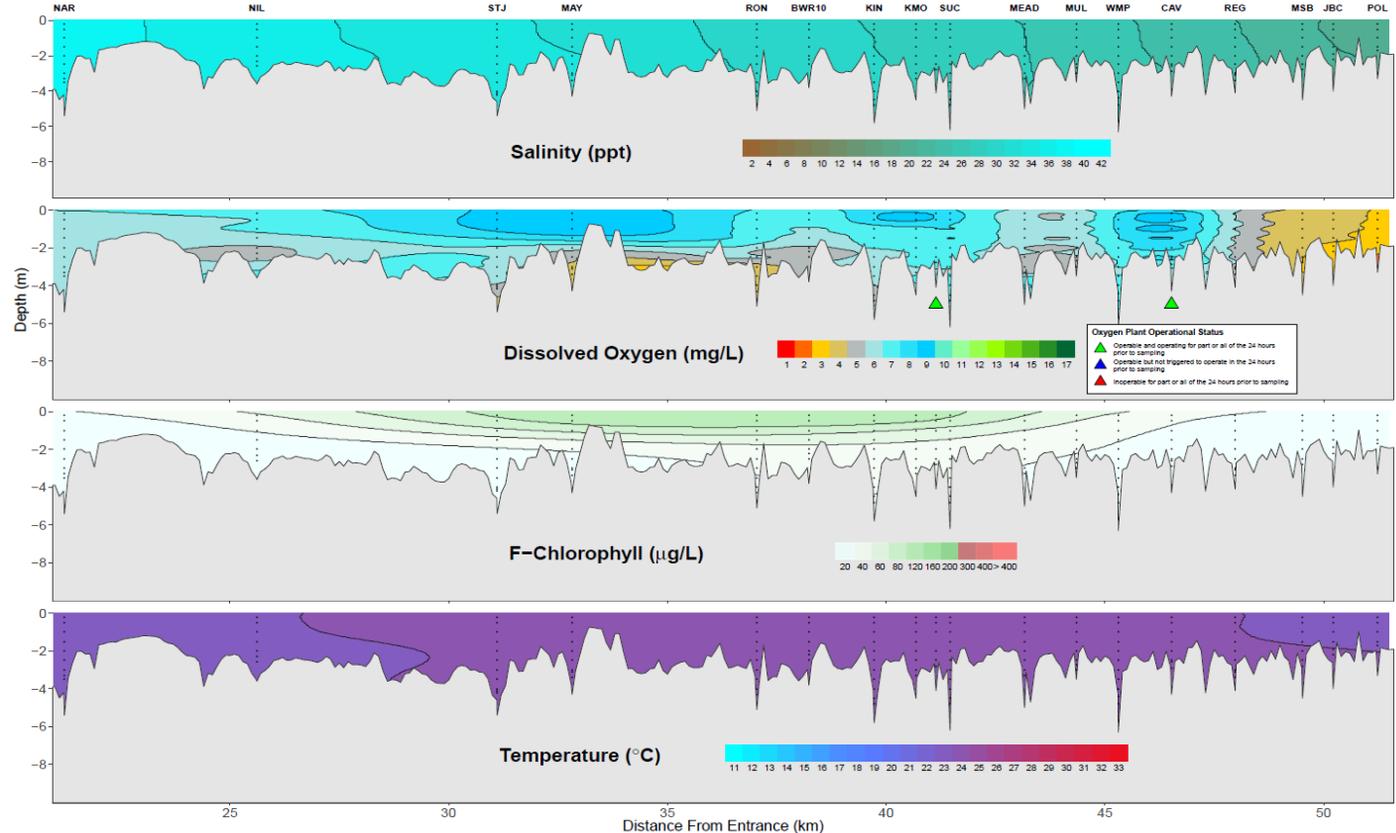
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### Swan River Estuary – Physical-Chemical Profile – 30th Mar 2020



### Middle and Upper Swan River Estuary – Physical-Chemical Profile – 30th Mar 2020



Date: 30<sup>th</sup> March 2020

Weather & tide conditions: Conditions were cloudy with a predominantly south-easterly breeze of up to 6 knots. The predicted tides at Barrack St were 0.69 m at 4:22 am (low tide) and 1.08 m at 2:29 pm (high tide). Perth recorded 4.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were both triggered to provide oxygen in the 24 hours prior to sampling.

Lower Swan Canning Estuary (FP1 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 22.2 to 23.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline and waters were oxygenated or well oxygenated, except bottom waters at MAY and RON which were low in oxygen. Chlorophyll fluorescence was highest at MAY indicating higher microalgal activity in that area. Water temperature ranged from 22.0 to 23.8 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline from BWR10 to MULB FARM and brackish between WMP and POL. Waters were oxygenated or well oxygenated from BWR10 to REG and low in oxygen from MSB to POL. Chlorophyll fluorescence was highest at KMO indicating higher microalgal activity in that area. Water temperature ranged from 22.1 to 23.9 °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