



Swan Canning Estuary Water Quality Monitoring Project

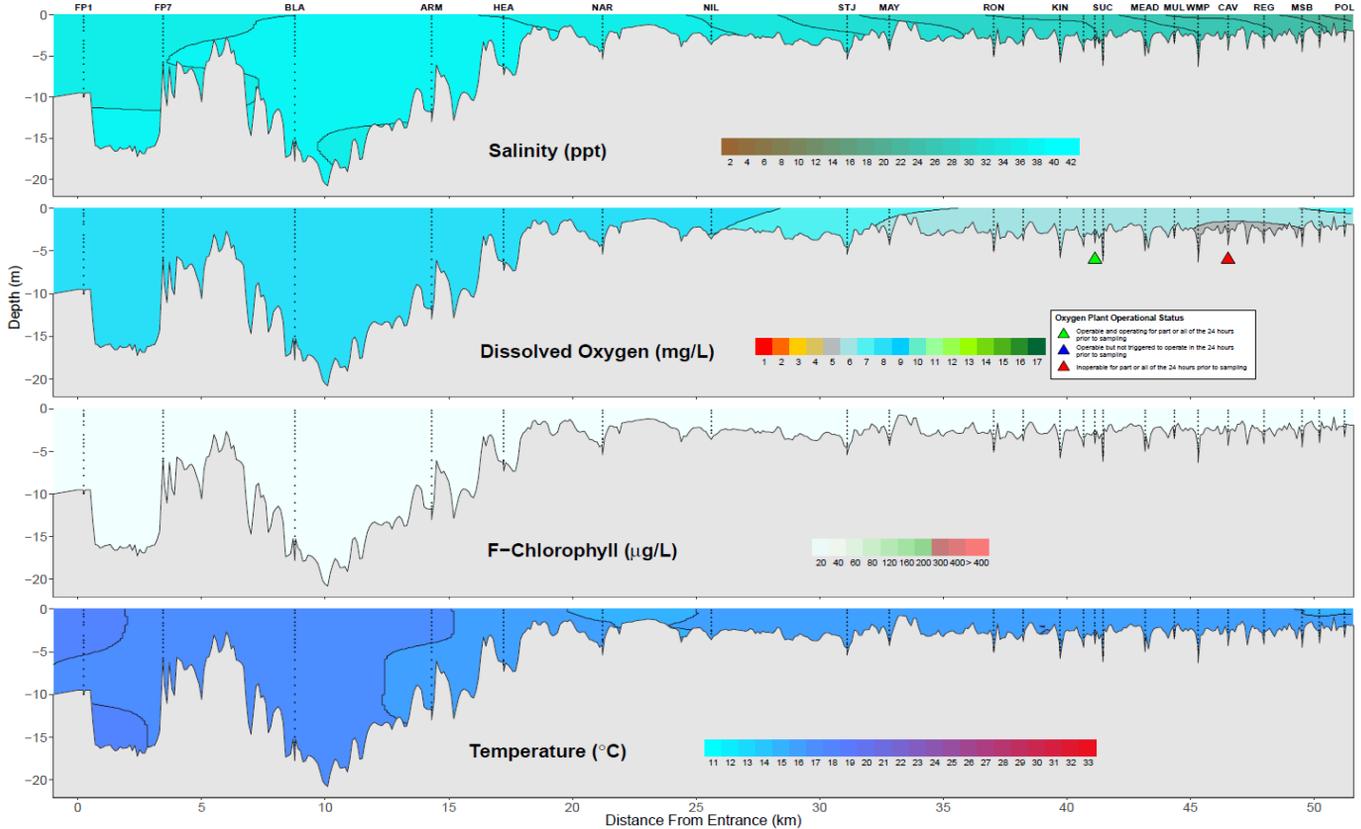
**Weekly Profile Report for the
Lower to Upper Swan Estuary**

26th May 2020

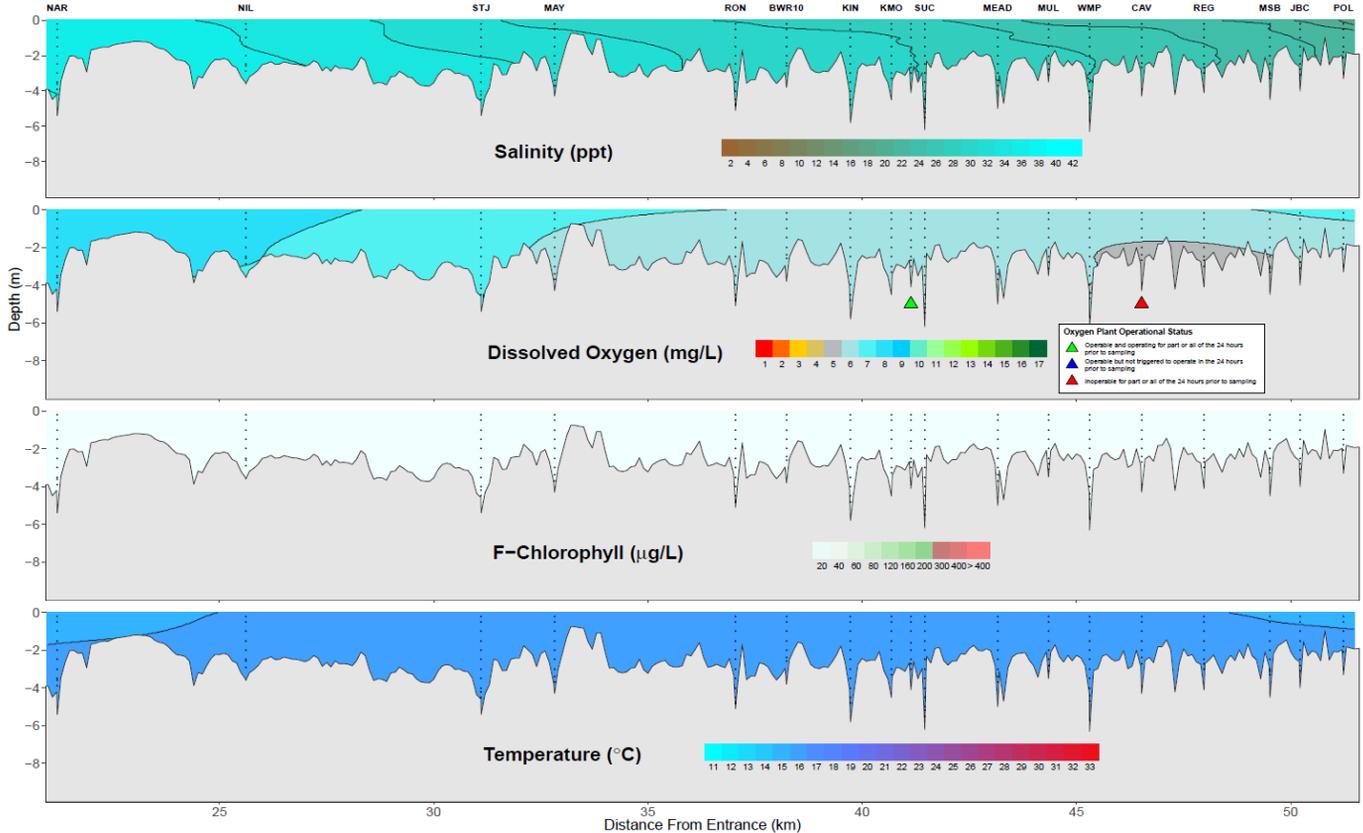
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Swan River Estuary – Physical-Chemical Profile – 26th May 2020



Middle and Upper Swan River Estuary – Physical-Chemical Profile – 26th May 2020



Date: 26th April 2020

NB: Sampling was delayed due to unfavourable conditions and a substantial storm surge on 25th May 2020.

Weather & tide conditions: Conditions were overcast with a variable breeze of up to 4 knots. The predicted tides at Barrack St were 1.25 m at 12:57 am (high tide) and 0.68 m at 11:54 pm (low tide). Perth recorded 28 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 (FP1 to NAR): The Lower Swan Canning Estuary was saline, waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.8 to 17.2 °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 15.0 to 15.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline from BWR10 to MEAD, brackish over saline from MULB to CAV and brackish from REG to POL. Waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.3 to 16.0 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at 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