



Swan Canning Estuary Water Quality Monitoring Project

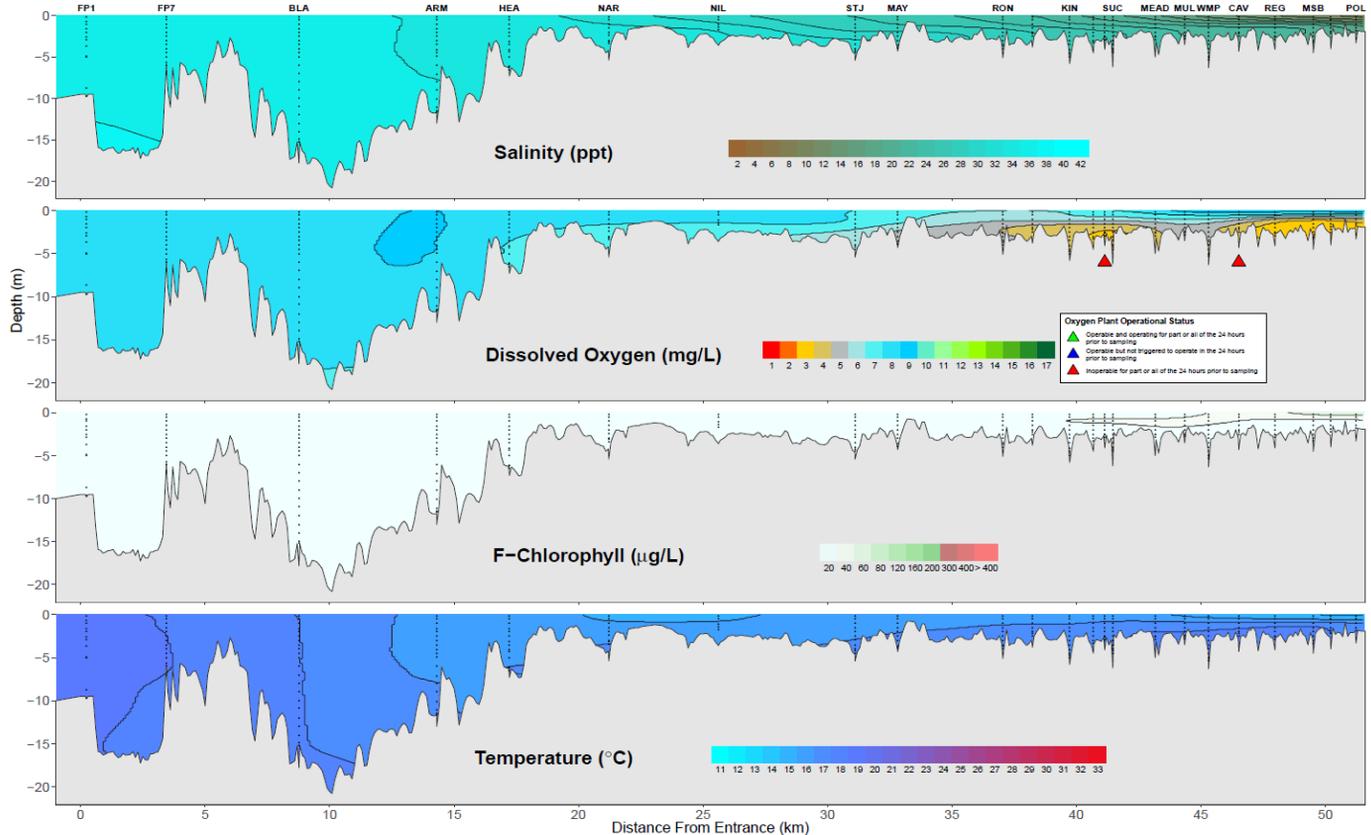
**Weekly Profile Report for the
Lower to Upper Swan Estuary**

22nd June 2020

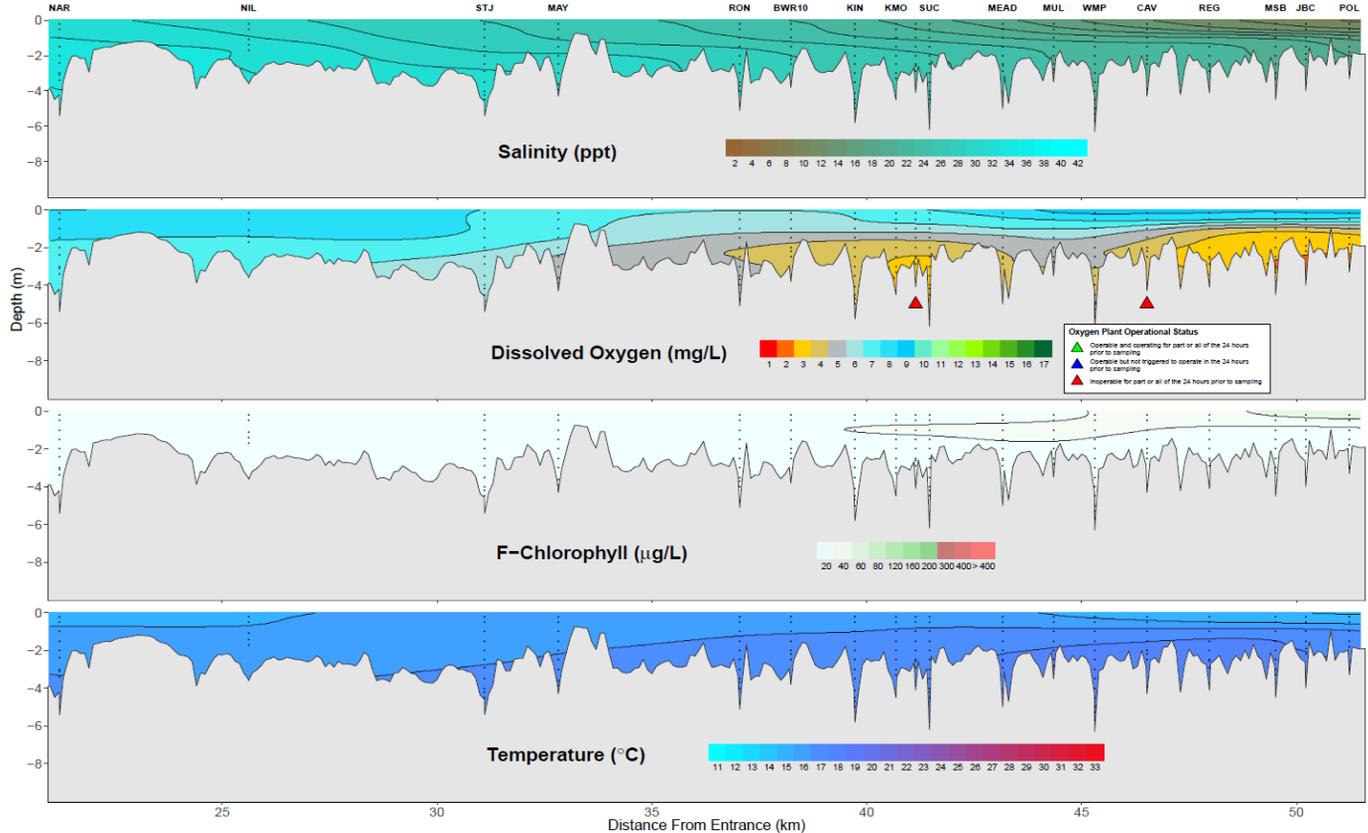
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Swan River Estuary – Physical-Chemical Profile – 22nd Jun 2020



Middle and Upper Swan River Estuary – Physical-Chemical Profile – 22nd Jun 2020



Date: 22nd June 2020

Weather & tide conditions: Conditions were overcast with a predominantly northerly breeze of up to 14 knots. The predicted tides at Barrack St were 1.27 m at 11:30 am (high tide) and 0.67 m at 10:06 pm (low tide). Perth recorded 13.4 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were 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 well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.8 to 18.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline between NIL and MAY and brackish over saline at RON. Waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.9 to 16.3 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish over saline between BWR10 and KMO and brackish from VIT to POL. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen from BWR10 to MEAD and between CAV and POL. Chlorophyll fluorescence was highest at POL indicating higher microalgal activity in that area. Water temperature ranged from 13.9 to 17.2 °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