



# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

### Canning Estuary and Lower Canning River

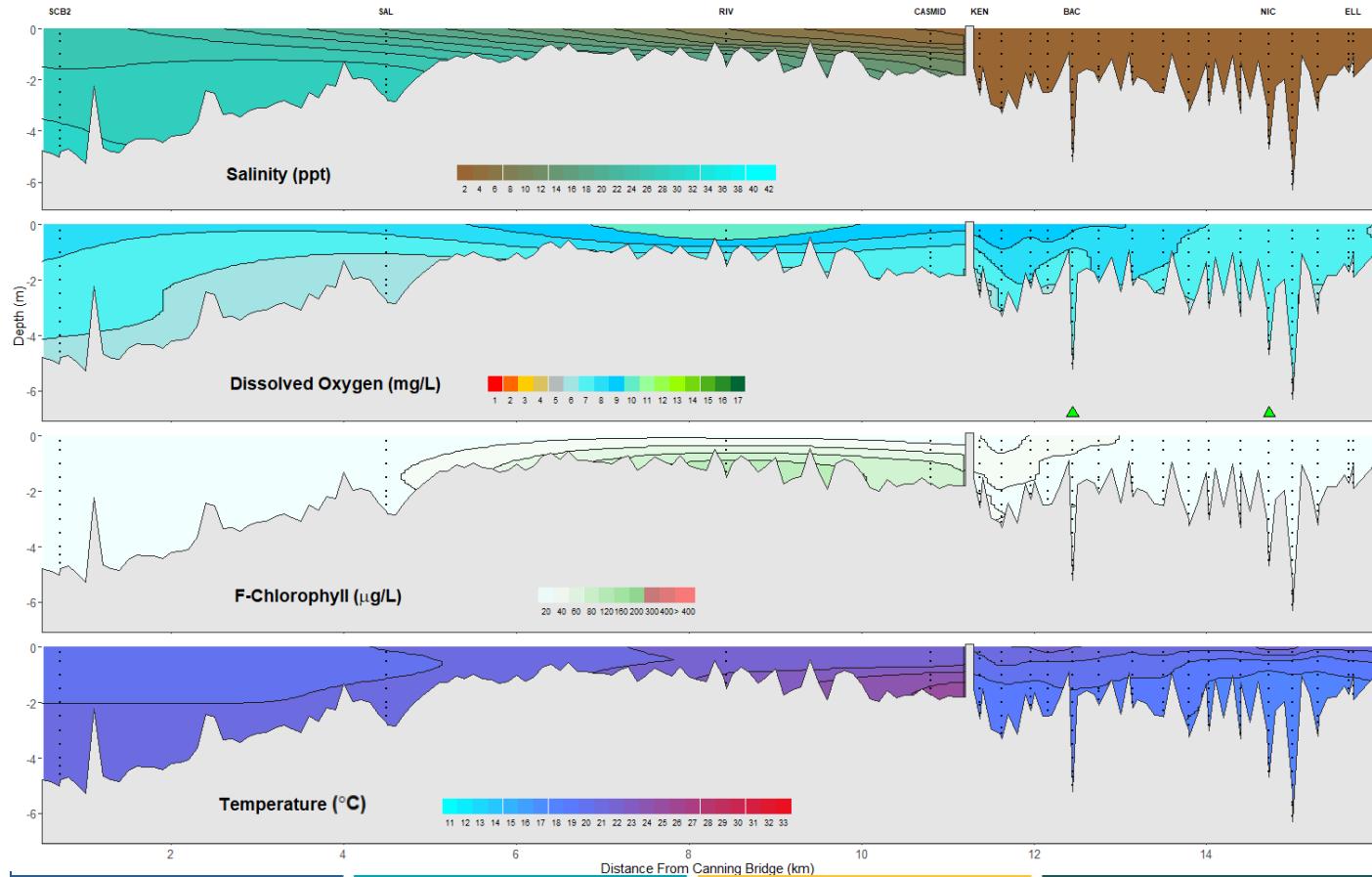
15<sup>th</sup> November 2022

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## Canning Estuary and Lower Canning River - Water Quality Profiles - 15<sup>th</sup> November 2022





Date: 15<sup>th</sup> November 2022

**Weather & tide conditions:** Conditions were sunny with a predominantly south easterly breeze of up to 6.1 knots. The predicted tides at Barrack St were 1.01 m at 1:14 am (high tide) and 0.58 m at 1:00 pm (low tide). Perth recorded 4.8 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

**Oxygenation:** The Bacon St and Nicholson Rd oxygenation plants were both operating in the 24 hours prior to sampling.

**Canning Estuary (SCB2 to CASMID):** Waters were saline at SCB2, brackish over saline at SAL, brackish at RIV, and fresh over brackish at CASMID. Waters were oxygenated or well oxygenated throughout. Chlorophyll fluorescence was low throughout, except at RIV and CASMID where the bottom waters and mid column featured moderate concentrations. Water temperatures ranged from 19.2 to 24°C at the time of sampling.

**Lower Canning River (KEN to ELL):** The Lower Canning River was fresh, and waters were oxygenated or well oxygenated throughout. Chlorophyll fluorescence was low throughout, and water temperatures ranged from 17.3 to 21.6 °C at the time of sampling.

**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 >6 mg L<sup>-1</sup>, oxygenated >4-6 mg L<sup>-1</sup>, low oxygen >2-4 mg L<sup>-1</sup>, hypoxic 0.5-2 mg L<sup>-1</sup>, anoxic <0.5 mg L<sup>-1</sup>
- Chlorophyll fluorescence (mod/high flow): low < 60 µg L<sup>-1</sup>, moderate 60-160 µg L<sup>-1</sup>, high 160-400 µg L<sup>-1</sup>, extreme > 400 µg L<sup>-1</sup>