



# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

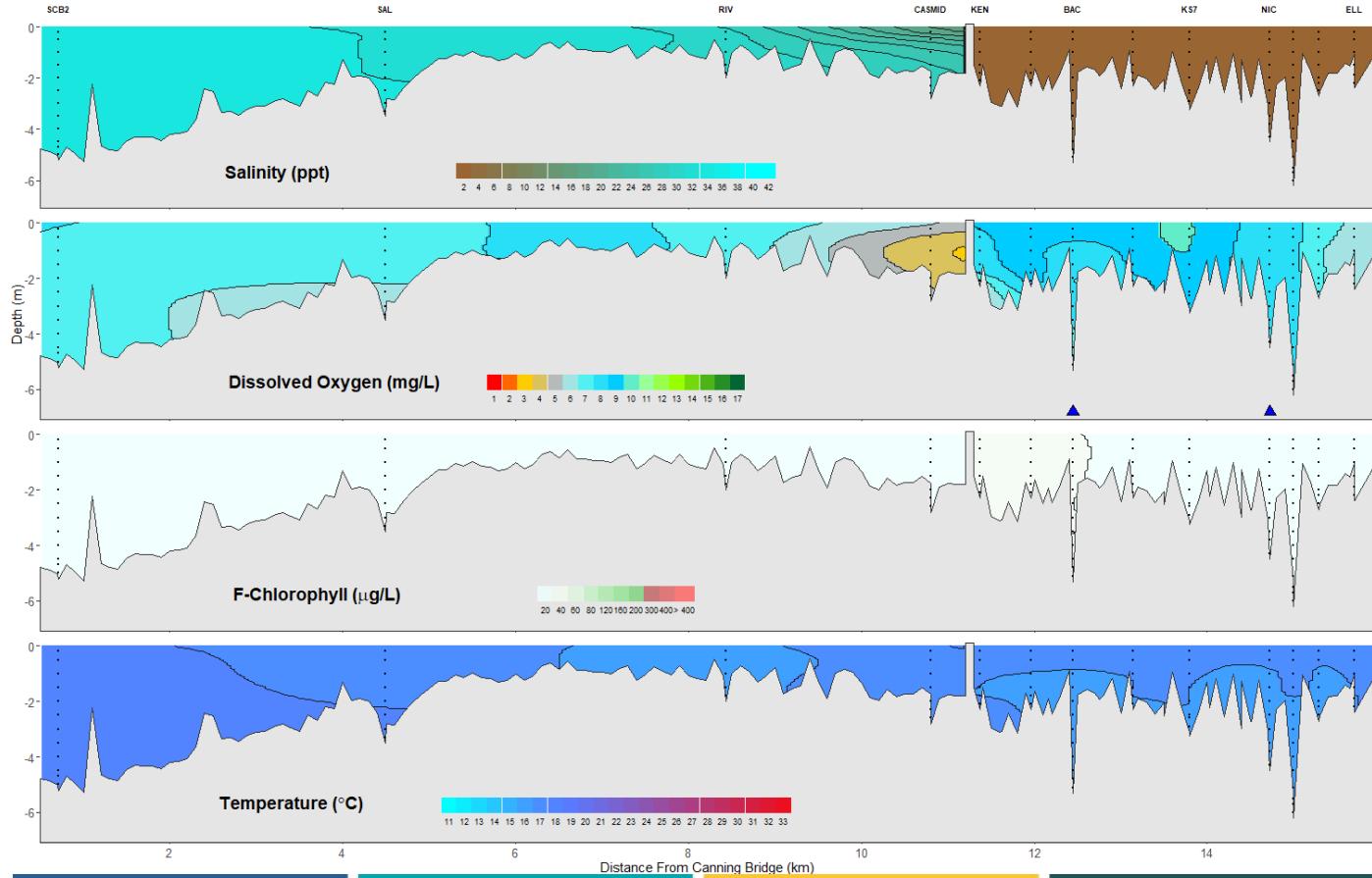
### Canning Estuary and Lower Canning River

9<sup>th</sup> May 2023

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## Canning Estuary and Lower Canning River - Water Quality Profiles – 9<sup>th</sup> May 2023





Date: 9<sup>th</sup> May 2023

Weather & tide conditions: Conditions were cloudy with a predominantly north-easterly breeze of up to 11 knots. The predicted tides at Barrack St were 0.67 m (low tide) at 11:30 pm the night previous, and 1.30 m (high tide) at 1:13 pm on the day. Perth recorded 6.4 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: Both the Nicholson Rd and Bacon St oxygenation plants were operable but not triggered to provide oxygen in the 24hr prior to sampling.

Canning Estuary (SCB2 to CASMID): Waters were saline between SCB2 and RIV, and brackish over saline at CASMID. Waters were oxygenated to well oxygenated from SCB2 to RIV, and low in oxygen mid water column at CASMID. Chlorophyll fluorescence was low throughout, and water temperatures ranged from 15.7 °C to 17.4 °C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh, and waters were oxygenated to well oxygenated throughout. Chlorophyll fluorescence was low and water temperatures ranged from 15.7 °C to 16.7 °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 >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 (low flow):** low < 50 µg L<sup>-1</sup>, moderate 50-150 µg L<sup>-1</sup>, high 150-400 µg L<sup>-1</sup>, extreme > 400 µg L<sup>-1</sup>