

# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

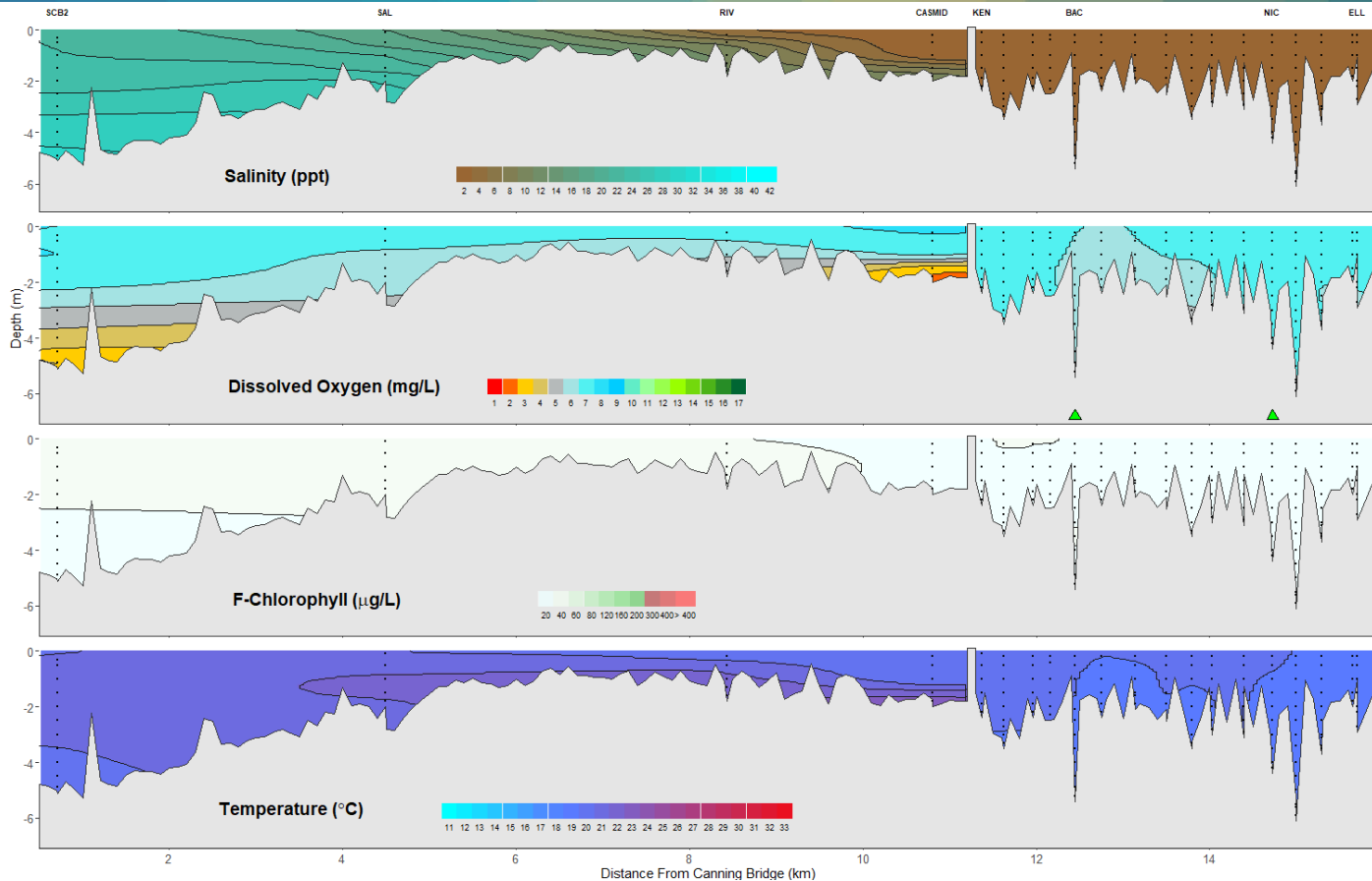
### Canning Estuary and Lower Canning River

25 October 2022

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# Canning Estuary and Lower Canning River - Water Quality Profiles – 25 October 2022



Date: 25 October 2022

Weather & tide conditions: Conditions were overcast with a light south easterly breeze of up to 9 knots. The predicted tides at Barrack St were 0.63 m at 6:28 am (first low tide), 0.79 m at 12:18 pm (high tide), and 0.75 m at 3:38 pm (second low tide). Perth recorded 15.2 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (SCB2 to CASMID): Waters were brackish over saline at SCB2, brackish at SAL and fresh over brackish between RIV and CASMID. Waters were oxygenated or well oxygenated throughout except for bottom waters at SCB2 and CASMID which were low in oxygen. Chlorophyll fluorescence was low throughout, and water temperatures ranged from 19.2 to 22.5 °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 and water temperatures ranged from 18.4 to 19.5 °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>