



# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

### Canning Estuary and Lower Canning River

26 July 2022

Prepared by

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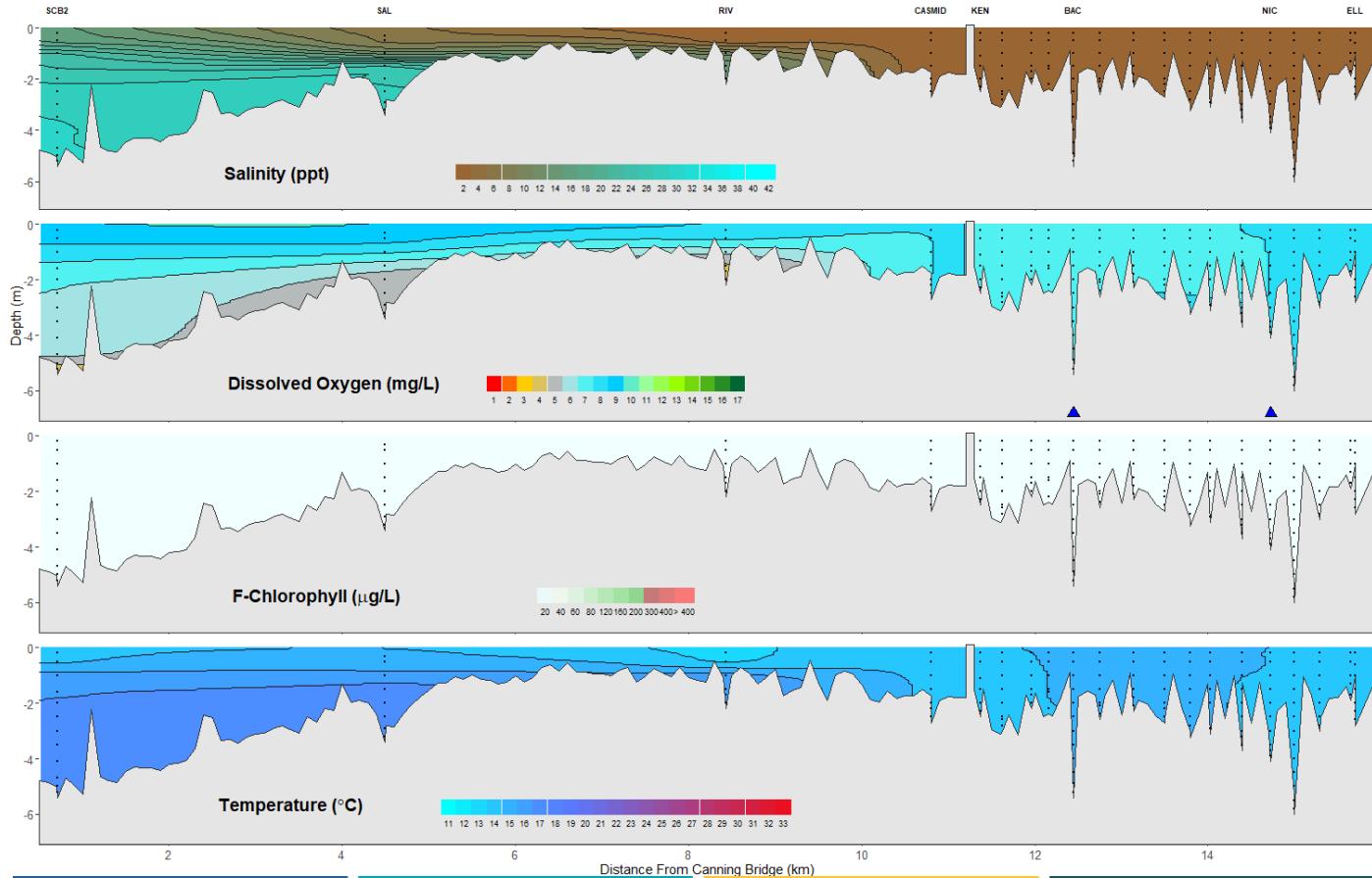
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## Canning Estuary and Lower Canning River - Water Quality Profiles – 26 July 2022





Date: 26 July 2022

**Weather & tide conditions:** Conditions were overcast with a predominantly north easterly breeze of up to 7 knots. The predicted tides at Barrack St were 1.22 m at 9:15 am (high tide) and 0.7 m at 8:14 pm (low tide). Perth recorded 56.4 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

**Oxygenation:** The Bacon St and Nicholson Rd oxygenation plants were both operable but not triggered in the 24 hours prior to sampling.

**Canning Estuary (SCB2 to CASMID):** Waters were brackish over saline between SCB2 and SAL, fresh over brackish at RIV and fresh at CASMID. Waters were oxygenated or well oxygenated throughout, except for bottom waters at RIV which were low in oxygen. Chlorophyll fluorescence was low and water temperatures ranged from 13 to 16.6 °C at the time of sampling.

**Lower Canning River (KEN to ELL):** The Lower Canning River was fresh and waters were well oxygenated throughout. Chlorophyll fluorescence was low and water temperatures ranged from 13.9 to 14.2 °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 (no/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>

**Recommended reference:** Department of Biodiversity, Conservation and Attractions 2022. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 26 July 2022. Rivers and Estuaries Science* (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)