



Gladstone
Healthy Harbour
Partnership

WATER & SEDIMENT



FIVE FAST FACTS

1. Water and sediment is an indicator **group** of the environmental component of the Gladstone Harbour Report Card.
2. A large number of catchment-related, human impact and climatic factors play a role in determining the water and sediment quality recorded in the Gladstone Harbour.
3. **FIFTY-ONE** sites within the thirteen GHHP harbour zones are monitored.
4. For water quality, four zones were graded **A** and nine zones were graded **B**.
5. The overall Water and Sediment grade has been rated **GOOD TO VERY GOOD** in all Gladstone Harbour Report Cards.

THE GRADES

2016	2017	2018	2019	Grading system
B	A	A	A	A Very good (0.85 - 1.00) B Good (0.65 - 0.84) C Satisfactory (0.50 - 0.64) D Poor (0.25 - 0.49) E Very poor (0.00 - 0.24)

HOW IS WATER & SEDIMENT MEASURED?

Water and sediment quality monitoring is conducted by the Port Curtis Integrated Monitoring Program (PCIMP) and the results are made available to GHHP for use in the Gladstone Harbour Report Card. Water quality monitoring is conducted quarterly and sediment is sampled annually.

Three water quality sub-indicators are measured to calculate scores for the Gladstone Harbour Report Card:

Physicochemical measurements: pH and turbidity

Nutrients: concentrations of total nitrogen, total phosphorus and chlorophyll-*a*

Dissolved metals: concentrations of aluminium, copper, lead, manganese, nickel and zinc in the water

SEVEN different metal levels are tested to determine the **sediment quality**:

- arsenic
- cadmium
- copper
- lead, mercury
- nickel
- zinc

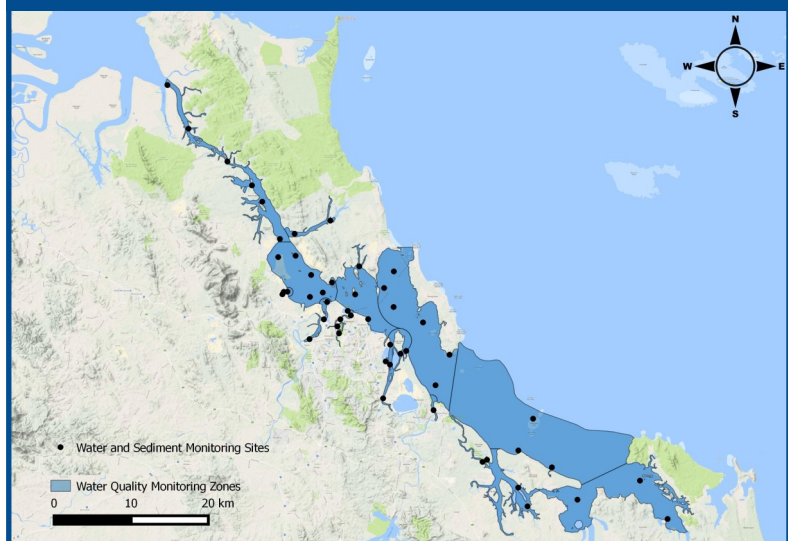
WHAT DO THE GRADES MEAN?

The overall water and sediment quality grade is generated from the combined testing results of both water and sediment quality.

Water quality: Scores for dissolved metals were consistently very good while physicochemical ranged from good to very good. Although nutrient scores were lower, this sub-indicator showed the greatest improvement compared to the 2018.

Sediment quality: Good to very good scores were recorded in all 13 zones owing to low concentrations of all measures.

WATER & SEDIMENT SITES MONITORED BY GHHP



Water and sediment is tested at 50 sites within the 13 GHHP monitoring zones.

GHHP Partner, PCIMP was a direct contributor to this indicator

For more information on water and sediment monitoring in Gladstone Harbour visit www.ghhp.org.au or visit our Facebook