



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, twelve zones were graded **VERY GOOD** and one zone was graded **GOOD**.
5. The overall Water and Sediment grade has been rated good to very good in all Gladstone Harbour Report Cards.

THE GRADES

2019	2020	Grading system
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

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

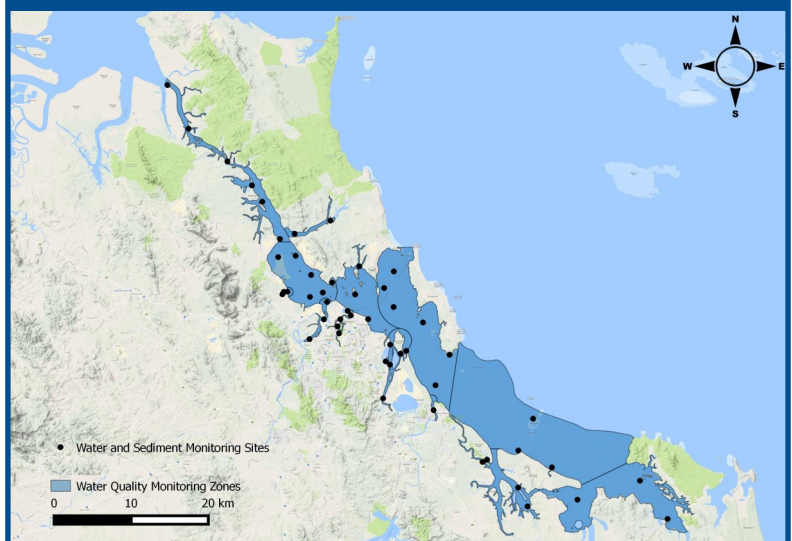
- arsenic
- cadmium
- copper
- lead
- nickel
- zinc

WHAT DO THE GRADES MEAN?

Water quality received an overall rating of **VERY GOOD** for the first time in the GHHP program. This was a result of good to very good physicochemical scores, satisfactory to very good nutrient scores and consistently very good dissolved metal scores at the zone level.

Sediment quality received an overall rating of **VERY GOOD** for the sixth consecutive year. 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 51 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 page.