



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, eleven zones were graded **VERY GOOD** and two zones 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

2020	2021	Grading system
<b>A</b>	<b>A</b>	<b>A</b> Very good (0.85 - 1.00)
		<b>B</b> Good (0.65 - 0.84)
		<b>C</b> Satisfactory (0.50 - 0.64)
		<b>D</b> Poor (0.25 - 0.49)
		<b>E</b> 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

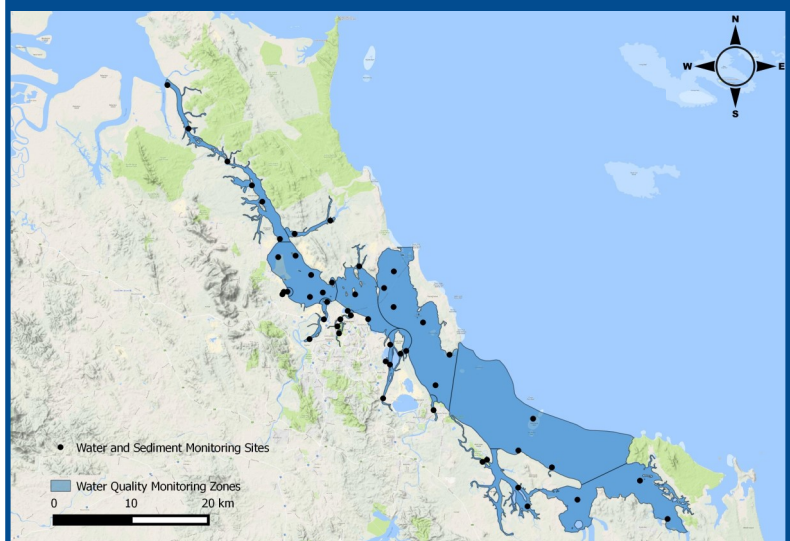
**SEVEN** different metal levels are tested to determine the **sediment quality:** arsenic, cadmium, copper, lead mercury, nickel and zinc

## WHAT DO THE GRADES MEAN?

**Water quality** received an overall rating of **VERY GOOD** for the second time in the GHHP program. This was a result of very good physicochemical scores, good 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 seventh 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](http://www.ghhp.org.au) or visit our Facebook page.