



Gladstone
Healthy Harbour
Partnership

SEAGRASS



FIVE FAST FACTS

1. Seagrass is an indicator for the environmental component of the Gladstone Harbour Report Card.
2. Seagrass meadows create nursery areas for juvenile fish and foraging areas for dugongs, turtles and large fish such as adult barramundi.
3. Seagrass ecosystem functions include: sediment stabilisation, nutrient cycling and carbon sequestration.
4. At peak distribution, seagrass meadows in Gladstone Harbour cover approximately **12,000ha**.
5. Fourteen seagrass meadows across **SIX ZONES** are monitored for the annual Gladstone Harbour Report Card.

THE GRADES

2016	2017	2018	2019	Grading system
D	D	D	C	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 SEAGRASS MEASURED?

Seagrass surveys are conducted in Gladstone Harbour every year in November by a team of scientists from James Cook University. Surveys are undertaken by air in a helicopter and underwater by divers.

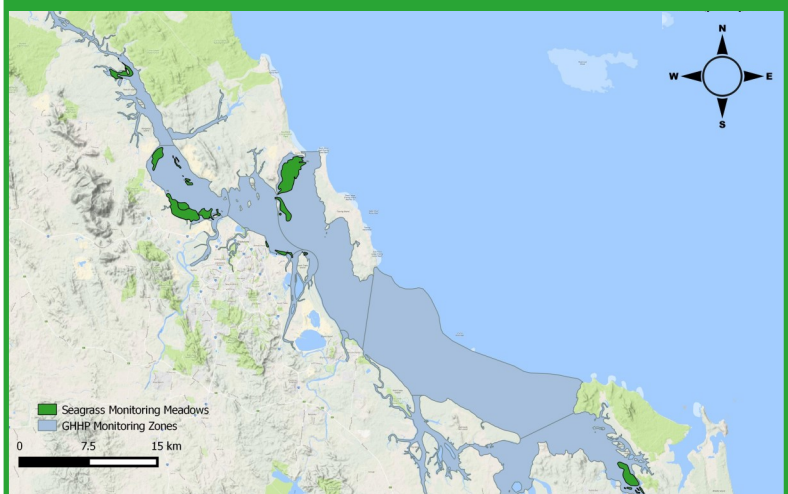
THREE seagrass indicators are measured to calculate scores:

1. **Biomass:** measuring above ground biomass tells us how much seagrass there is in a meadow.
2. **Area:** boundaries are mapped to see if the area of seagrass is declining, stable or growing.
3. **Species composition:** the different types of seagrass are monitored. A meadow will receive a high score if the one species remains stable. It will receive a lower score if there is a shift from the main species to new colonising species.

WHAT DO THE GRADES MEAN?

The overall condition of monitored seagrass meadows in Gladstone Harbour was satisfactory (0.59) in the 2019 reporting year. This result marks the first time since 2015 that the overall seagrass condition was graded beyond poor—a noteworthy improvement. Results suggest that the dry, benign weather conditions provided ideal conditions for seagrass recovery in the 2019 reporting year.

SEAGRASS MEADOWS MONITORED BY GHHP



Seagrass zones: The Narrows, Mid Harbour, South Trees Inlet, Rodds Bay, Inner Harbour and Western Basin.