

Our town, our waters

The Healthy Waters Partnership for the Dry Tropics acknowledges the Wulgurukaba, Bindal, Nywaigi, and Manbarra people as the Traditional Custodians of the land and sea country that is valued by all who have contributed to this Report Card. We walk together in our shared responsibility to protect and respect the waterways that support our community and cherished lifestyle.

"Healthy waters mean healthy and abundant fishes, corals and

other marine life. As a keen underwater photographer and occasional rec fisher, good water quality is essential for my lifestyle and

— Matt Curnock

wellbeing."

"Paddling is life for me. I just love the supportive communities that you find around waterways. There is such a shared respect for the river environment. It's water that connects us, brings us together, and so we care for it in return."

- Bek Rogerson

Where we wet a line

Bohle River
Ross River
Pallarenda
Northern beaches
The Great Barrier Reef







Unlocking the story of our waterways

Each Report Card is like a page in a story. Together, they tell the evolving tale of our waterways. Understanding how they're changing helps to write the next chapter towards healthier, more resilient environments.

This report is informed by data collected by our Partners from July 2023 to June 2024.

- A Very good
- **B** Good
- C Moderate
- **D** Poor
- E Very poor
- Not enough information

Since last Report Card:

- Grade has improved
- Grade has declined

Water quality has many moving parts, and while some grades appear steady year to year, what's happening beneath the surface could be shifting. That's why it's important to look at the detail in the data.

Pick up on litter pressure

As you flick through the Report Card, keep an eye out for bottles. These show the pressure of litter at clean-up locations, which may change from year to year.











W Litter

Moderate High **Litter pressure**

Very high



Dive deeper via the Technical Report and see the confidence measure for each of the grades.



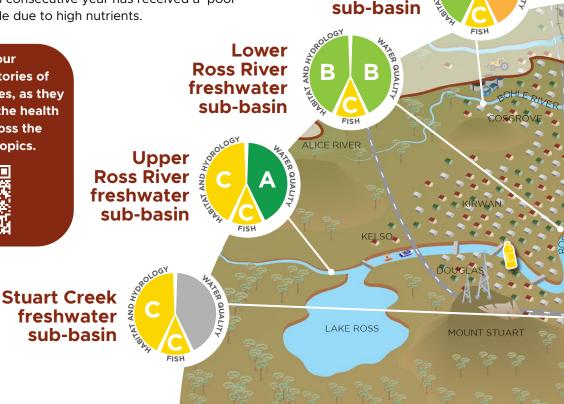


More than 20 schools across Townsville are involved. From sowing pollinator gardens to launching Containers for Change and connecting with local specialists, students are taking pride in looking after their patch.

They aren't alone. Partners use the Report Card to identify areas where stewardship activities have the greatest value, such as Townsville's most populated basin, the Bohle River sub-basin, which for the sixth consecutive year has received a 'poor' water quality grade due to high nutrients.

We celebrate all our
Partners in the 'Stories of
Stewardship' series, as they
work to improve the health
of waterways across the
Townsville Dry Tropics.





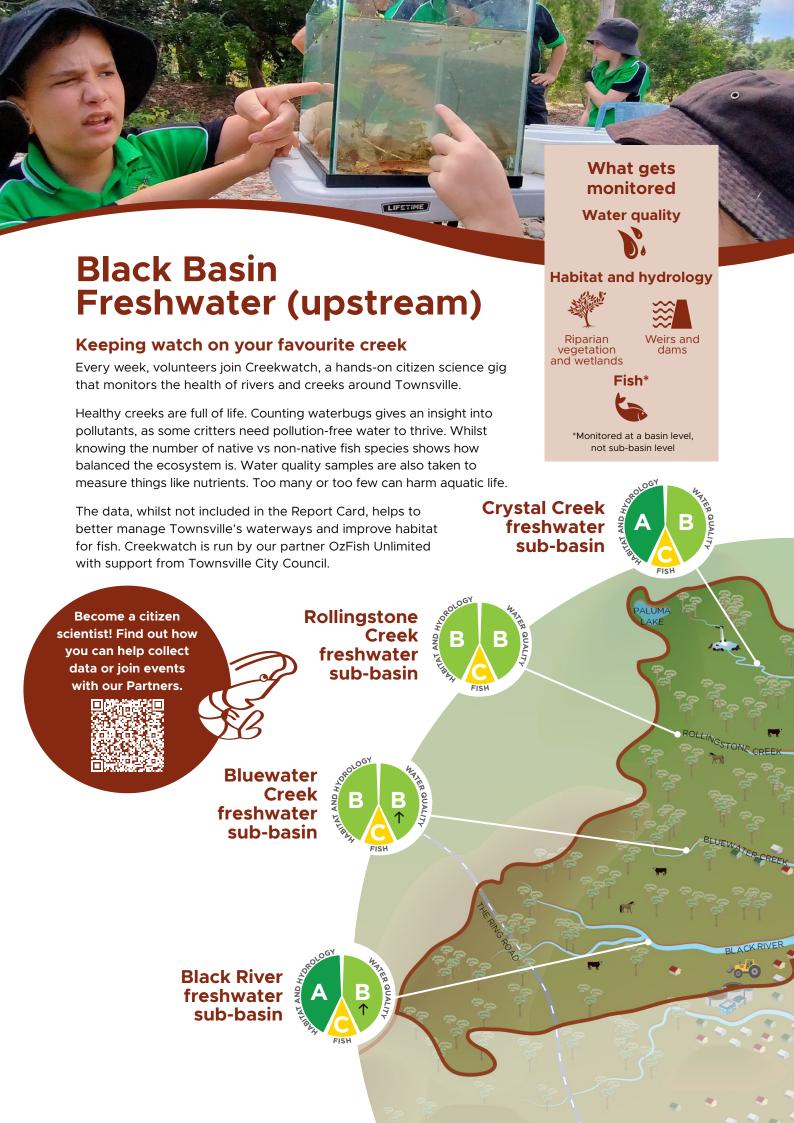
Bohle River freshwater

*Monitored at a basin level

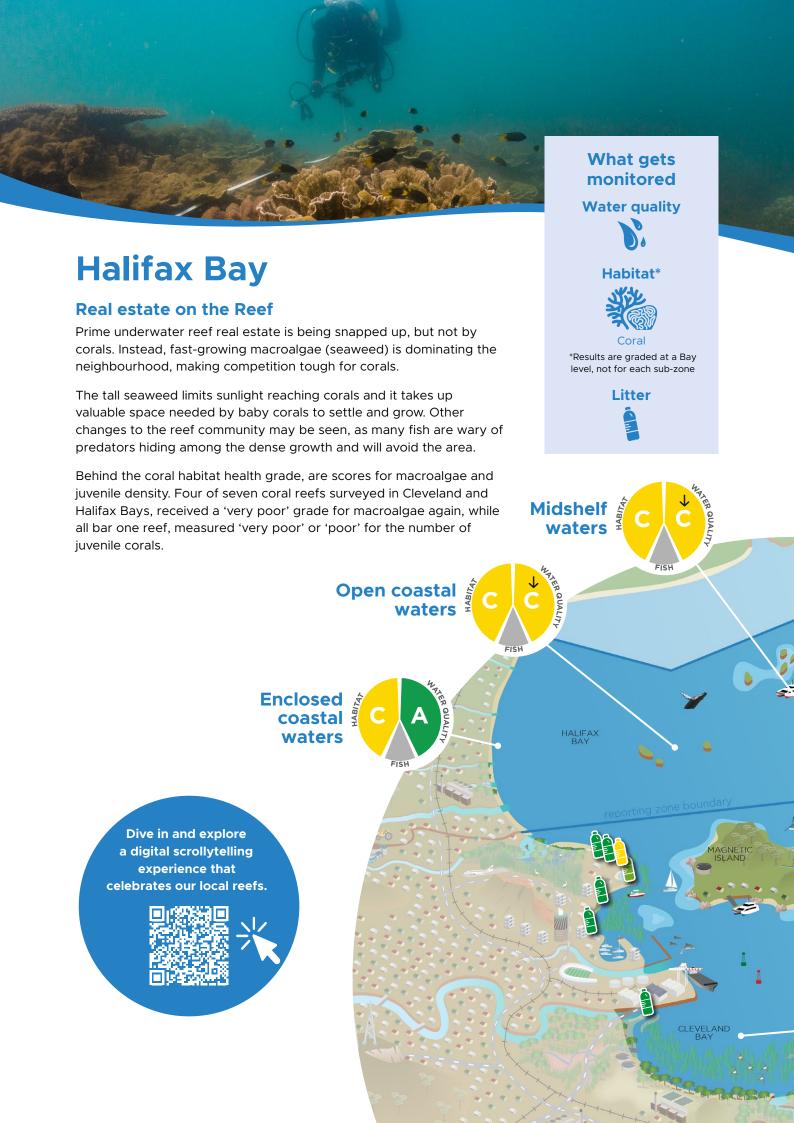
not sub-basin level

Alligator Creek freshwater sub-basin

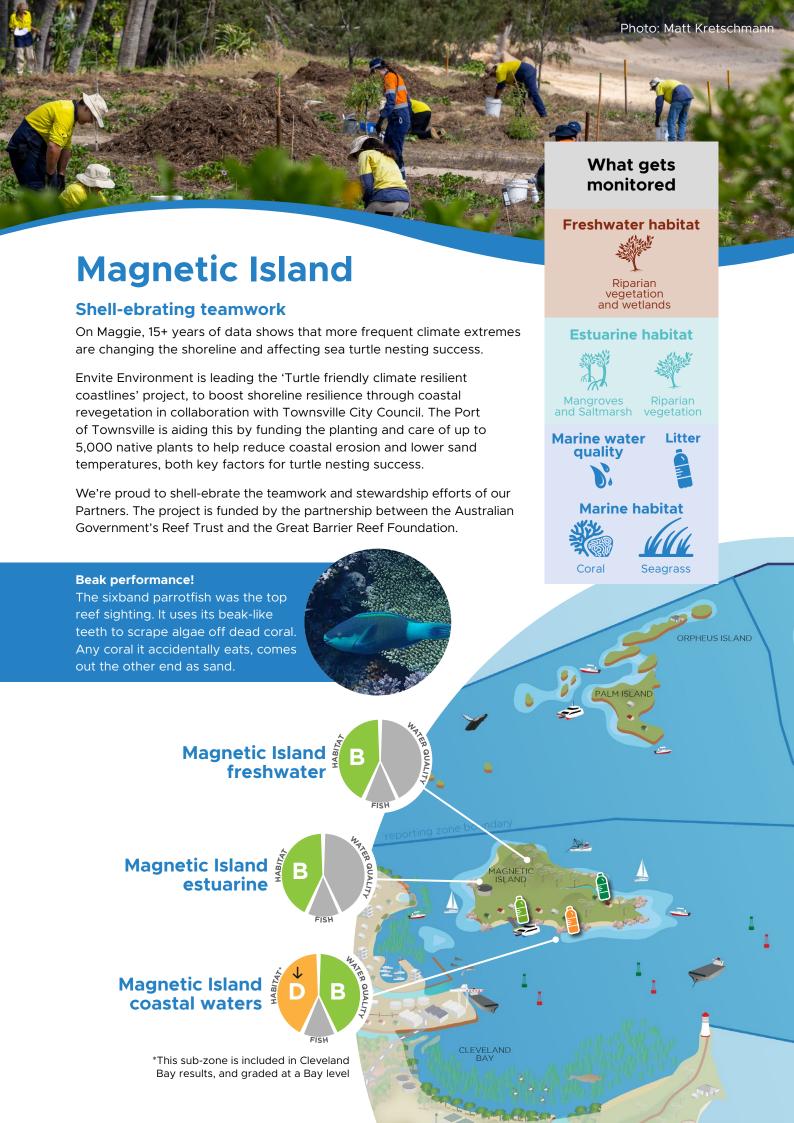














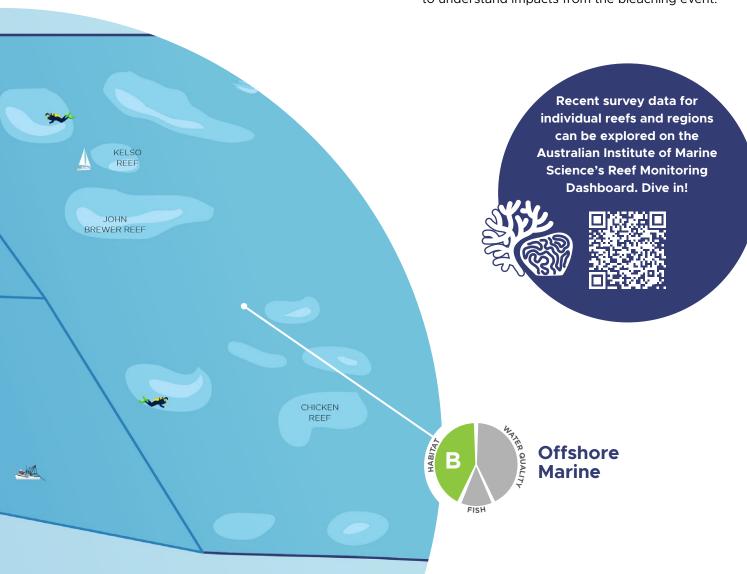
Offshore Marine

Corals were feeling the heat

Despite one cyclone and a prolonged marine heatwave, results for coral reefs furthest from the coast seem promising, with the habitat grade remaining 'good.' However, most of the surveys occurred during a mass bleaching event, the fifth on the Great Barrier Reef since 2016.

Bleaching is a coral's response to stress, but they are still alive and during surveys are recorded as live corals. Therefore, the results don't show how many corals recovered or died following bleaching.

But what the data shows is reef health prior to bleaching. Counts of baby coral remained 'very good' at 7 of 9 reefs surveyed, and more than half scored a 'good' for overall health. This provides a valuable baseline to understand impacts from the bleaching event.





Collective action for impact

The Healthy Waters Partnership for the Dry Tropics is a collective of partners from business, industry, research, education, community, and all levels of government.

We bring together existing data from multiple sources to produce an annual Report Card, a snapshot of waterway health in our regions. It's a crucial tool used to inform management about water quality in local waterways that flow to the Reef.

With our Partners, we are committed to uncovering the entire story of our waterways, and collaborating on projects that improve the health and resilience of our rivers, creeks, and coasts, whilst empowering the local community to get involved and support waterway health across the Townsville Dry Tropics region. Our network is one of five Regional Report Card Partnerships along the length of the Great Barrier Reef.

Get amongst it!

There are plenty of ways to make a difference. Join a local clean-up, lend a hand planting, or take part in citizen science gigs. You'll find upcoming events on our website.

Want to go further? Become a member partner and be part of the collective effort to improve the health of our

Stay connected by signing up to our newsletter or following us on social media and celebrate the places we all care about and love.





The effect of weather events from rivers to reef

Climate change, the greatest threat to the Great Barrier Reef, is driving more frequent and intense weather events that are leaving a lasting mark on our rivers, creeks, and coasts.

Prolonged droughts

Prolonged droughts reduce freshwater flow into rivers, estuaries, and coastal areas. That means saltier water, and a build-up of pollutants. Without regular flushing, water quality can drop, putting more stress on aquatic plants and animals.

Rainfall and flooding

Floods can be good and bad for our waterways. They can help flush out weeds that reduce sunlight and deplete oxygen.

But they can also erode riverbanks, wash debris and pollutants into the sea, inundate marine areas with freshwater, and blanket reefs and seagrass with sediment.

In early 2025, Townsville had record-breaking rainfall. We'll report on how this affected our waterways in next year's Report Card.

Cyclones

Cyclones bring powerful winds, waves and storm surge, that can damage reefs, seagrass beds, mangroves and riparian habitat hundreds of kilometres away. The impact depends on how long areas are exposed and the intensity, as well as things like the shape of the seafloor and presence of physical barriers.

Marine heatwaves

Marine heatwaves are periods of unusually high ocean temperatures, and the main driver of coral bleaching, whereby corals lose the tiny algae that help keep them alive. If waters cool in time, corals can recover. Seagrass also struggles in the heat, leading to slower growth and even die-off. More frequent heatwaves shorten recovery windows for both coral and seagrass.

Good water quality is critical for healthy and resilient ecosystems and supports reef recovery following impacts caused by weather events.

How to help our waters

Reduce use of fertilisers and pesticides

From homes, farms, and town, chemicals can wash into our waterways.

Stay smart about septic systems

Let's keep an eye on the effectiveness of our wastewater systems.

Keep an eye on runoff

Every time it rains, pollutants get pushed off roads, factories, and farms. We can prevent and report pollution.

Get involved in creek restoration and tree planting

Trees, mangroves, shrubs, and grasses can be a waterway's best defence against runoff.

Tidy up Townsville!

Litter is a cumulative and collective challenge. Let's show our waters the love.

Become a citizen scientist

Collect data and contribute to environmental monitoring.

Minimise your carbon footprint

Use energy efficient appliances, make conscious diet choices, and walk, ride, carpool or take public transport when you can.

Fish sustainably

Follow seasonal closures, catch and size limits, and zoning rules to support healthy fisheries and ecosystems.

Together we're keeping watch on our waters

drytropicshealthywaters.org

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