



Transport and Main Roads

Marine pollution

What kind of waterways do we want?

Garbage

Everyday items such as cigarette butts, plastic bags, bottles, cans and discarded fishing gear are common causes of marine pollution.

These objects, whether discarded intentionally, or simply blown overboard, contribute to increasing pressures on marine ecosystems.

Marine animals and sea birds can mistake plastic material for food, and often end up dying a slow and painful death from starvation or strangulation.

Simple measures can help protect marine wildlife and save you the embarrassment and cost of a fine.

- Don't throw anything overboard.
- Have secure bins or garbage bags to store garbage onboard until you return to shore.
- Use crockery or re-useable plates and cutlery.
- Make the effort to retrieve lost or damaged fishing gear.
- If garbage does end up in the water, take the time to retrieve it.
- Don't abandon crab pots, as floats and lines can entangle wildlife and foul boat propellers.

Years to decompose:

Glass bottle: 1 million years

Plastic icecream tub: 600 years

Plastic bottle: 450 years

Aluminium can: 80-200 years

Plastic shopping bag: 20 years

Cigarette butt/filter: 1-5 years

Source: The Ocean Conservancy

Pocket Guide to Marine Debris 2006

Paint scrapings

Harmful chemicals and compounds found in paint scrapings and wood preservatives are found to have long-term effects on numerous plant and animal species. By preventing paint scrapings from entering the water and mopping up any paint spills, you are doing your bit to help protect our waterways for the future.

Pollution is an offence

Whether your boat is large or small, it is an offence to discharge garbage into Queensland coastal waters.

Maximum penalties:

\$350 000 for an individual

\$1 750 000 for a corporation



Source: NIWA (photo M. Godfrey)

Source: DERM



Oil and chemicals

Most oil and chemical pollution results from activities such as refuelling, boat maintenance and bilge discharges. Petrol, hydraulic and gear box oil, and chemicals such as degreasers and paints contain a range of toxins harmful to both marine animals and humans.

Once these toxins enter our waterways, they have the potential to retard or prevent the reproductive development of many marine animals, which can have a flow-on effect on the whole ecosystem.

Contaminated fish stocks and filter feeders such as oysters and mussels can also pass on harmful chemicals to humans, if consumed.



Source: International Fund for Animal Welfare
(photo J Rodriguez)



Boat operators need to help reduce oil and chemicals entering our waterways.

- Do not overfill your tank.
- Watch the breathers for signs of 'blow-back' or overflow.
- Ensure your bilges are clean before discharging them.
- Use phosphate-free biodegradable detergents.
- Carry absorbent material onboard to clean up any accidental spills.
- Repair oil and fuel leaks when first noticed.

If you accidentally spill oil or chemicals into the water, or see a spill, do your bit for the marine environment and contact your local Harbour Master, Marina Manager or Port Authority, so the spill can be contained and cleaned up as soon as possible.

Sewage

The discharge of sewage into the marine environment poses serious health and environmental issues.

Pathogens such as viruses, parasites and bacteria found in sewage can potentially be passed on to other waterway users while swimming, surfing or diving, or by consuming contaminated shellfish such as mussels and oysters.

Given the right conditions, excess nutrients entering the water from sewage discharges can also lead to algal blooms (see image right). As blooms die off and decompose, they release toxins and deplete the oxygen in the surrounding water.

To reduce the impact associated with ship-sourced sewage, Maritime Safety Queensland imposes restrictions on the locations where different types of sewage can be discharged. Sewage is categorised as either **treated** or **untreated**.

Untreated sewage

Untreated sewage is sewage that **has not** passed through an onboard treatment system.

Untreated sewage must pass through a macerator before being discharged, in order to assist with dispersion and improve visual amenity for all waterways users.

Macerated sewage is not classed as 'treated sewage'.

Declared ships* must have a sewage holding device if operating in areas where sewage discharge is not permitted.

Untreated sewage is **prohibited** from being discharged in the following areas:

- Prohibited discharge waters
 - Canals, marinas, boat harbours, the Noosa River and designated areas of state marine parks.
- Smooth waters (includes rivers, creeks and designated smooth waters)
 - All smooth waters.
- Hervey Bay and northern Moreton Bay waters
 - Declared ships – All Hervey Bay and northern Moreton Bay waters

- All other ships with 1-15 people onboard within 1852m† of reefs, aquaculture fisheries resources or the mean low water mark of the mainland.

- Open waters

- Within 926m‡ of a wharf or jetty other than a jetty that is a marina
- Within 1852m of aquaculture fisheries resources.

For ships with 7-15 people onboard, as above plus: within 1852m of a reef or the mean low water mark of an island or the mainland.

For ships with 16 or more persons onboard, no discharge of untreated sewage is permitted in Queensland coastal waters.

** Declared ships: Commercially registered class 1B, 1C, 1D, 1E and 1F ships (with a fixed toilet)
† 1852m: 1 nautical mile
‡ 926m: 1/2 nautical mile*

Treated sewage

Treated sewage is sewage that has passed through an onboard treatment system and is graded as either A, B or C depending on the level of treatment it has received. Treated sewage can be discharged in Queensland coastal waters subject to the following restrictions:

- Grade A treated sewage (highest treatment)
No restrictions other than Prohibited Discharge Waters such as canals, marinas, boat harbours, the Noosa River and designated areas of state marine parks.
- Grade B treated sewage (medium treatment)
Nil discharge in Prohibited Discharge Waters such as canals, marinas, boat harbours, the Noosa River and designated areas of state marine parks.
Nil discharge in Hervey Bay waters, northern Moreton Bay waters, open waters and smooth waters within 700m of:
 - a person in the water
 - aquaculture fisheries resources
 - reef.

- Grade C treated sewage (lowest treatment)
Nil discharge in Prohibited Discharge Waters such as canals, marinas, boat harbours, the Noosa River and designated areas of state marine parks.
Nil discharge in Hervey Bay waters, northern Moreton Bay waters, open waters and smooth waters within 926m of:
 - a person in the water
 - aquaculture fisheries resources
 - a reef.

Macerated sewage is not classed as 'treated sewage'.

Treatment systems

To ensure your treatment system is operating correctly, the system should be tested at the legally required intervals.

These test results, along with the system's service records, must be kept onboard your ship at all times.

Failing to have your treatment system tested or keep system documentation onboard your vessel at all times is an offence.

Maximum penalty: \$35 000 per offence.

Macerators

All vessels that have a fixed toilet and operate in Queensland coastal waters must have macerators fitted. Owners must also ensure that sewage cannot bypass the macerator before being discharged.

For further information on sewage requirements for commercial and recreational vessels, discharge maps and locations of pump-out facilities, visit:

www.msq.qld.gov.au/home/environment/sewage



Please note: if you have 16 or more persons onboard, the discharge of untreated sewage is not permitted in any Queensland coastal waterway. Please refer to Maritime Safety Queensland's website for the most up-to-date requirements.

Help protect the marine environment and report marine pollution to your Regional Office or Port Authority:

Southport	(07) 5539 7300
Brisbane	(07) 3860 3500
Mooloolaba	(07) 5477 8425
Hervey Bay	(07) 4194 9600
Bundaberg	(07) 4131 8500
Gladstone	(07) 4973 1200
Mackay	(07) 4944 3700
Airlie Beach	(07) 4946 2200
Townsville	(07) 4726 3400
Cairns	(07) 4052 7400
Weipa	(07) 4069 7165
Karumba	(07) 4745 9281
Thursday Island	(07) 4069 1351

It's in everybody's interest to protect our waterways from marine pollution.

For more information visit the Maritime Safety Queensland website www.msq.qld.gov.au.



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