

# Water Pollution

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## Editorial

Water pollution, typically as a consequence of human activities, is the contamination of water bodies. Lakes, rivers, oceans, and groundwater, for instance, are water bodies. When pollutants are introduced into the natural world, water contamination occurs. For example, the release into natural water bodies of inadequately treated waste water can lead to the destruction of aquatic habitats.

In fact, for individuals living downstream, this may lead to public health concerns. For drinking or bathing or irrigation, they may use the same polluted river water, for example, due to water-borne diseases, is the world's leading cause of death and disease.

Water is an important resource on earth, life is impossible without it.

It is defined as the presence of solid, liquid, and gaseous contaminants in such concentrations that may alter the quality of water. It can be classified as surface water or groundwater pollution

Causes of water pollution are:

**Industrial waste:** industries generate a large quantity of waste containing hazardous chemicals and toxins, causing air pollution and harm to our atmosphere and to us. They contain chemicals that are toxic, including lead, mercury, Sulphur, asbestos, nitrates, and many others.

**Wastewater and Sewage:** The sewage and waste water generated in each household is chemically treated and, along with fresh water, released into the sea. Pathogens, a common water pollutant, other dangerous bacteria, and chemicals that can cause severe health problems and therefore diseases are carried in the sewage water.

**Marine dumping:** In some countries, waste created by households in the form of paper, plastic, fruit, aluminum, rubber, and glass is collected and deposited into the sea. It takes 2 weeks to 200 years for these things to decompose. They cause

not only water pollution, but also damage animals in the sea when such objects reach the sea.

**Global Warming:** Owing to the greenhouse effect, an increase in the temperature of the planet results in global warming. It raises the temperature of the water and results in the death of aquatic animals and marine plants, contributing to water contamination later on. Etc.

The management of water pollution includes: storm water management they involve engineered devices and operational and procedural practices like minimizing's of chemical fertilizers and pesticides.

Measures to control water pollution: Water pollution can be regulated, to a greater degree, by a number of methods. It is safer to handle them prior to discharge, rather than dumping sewage waste into water bodies. Practicing this will decrease the initial toxicity and the water body itself can degrade the remaining contaminants and make them harmless. If secondary water treatment has been completed, it can be reused.

- Urban and industrial waste should not be disposed of in water sources.
- Before flowing directly into drinking water supplies, household waste and sewage can even be treated. It is possible to produce use of such treated water for cooking vegetables which may be grown on sewerage farms.
- In order to safeguard water bodies from untreated waste water, sewage treatment plants and industrial waste water treatment plants are usually required. Water contamination prevention can also be improved by industrial wastewater treatment for farms and erosion protection at construction sites. industries like organic compounds, hydro compounds.

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