

THE PROBLEM OF WATER POLLUTION AND CAUSES

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ANNOTATION

This article provides information on water systems around the world and their pollution, how they are polluted, what causes them, and the extent to which they have a negative impact on humanity and nature.

Keywords: Water systems, water pollution, hydraulic problem, pollution level, water bodies, ocean pollution.

INTRODUCTION

Pollution and degradation of water resources means the accumulation of various organic, inorganic, mechanical, bacteriological and other substances in water, changes in its physical properties (color, clarity, odor and taste) and chemical composition (reaction, organic and mineral content). the formation of harmful bacteria, etc.), the formation of bacteria that spread infectious diseases understood.

The main sources of anthropogenic pollution of water bodies are diverse, the most important of which are: Wastewater from industrial and domestic, utilities and medical and other organizations; synthetic detergents; wastes from mining of ore and non-ore minerals; wastewater used in and out of mines, quarries, oil companies; wastewater from road and rail transport; wastes generated during timber harvesting, processing and water discharge, transportation; wastewater from livestock farms and complexes; effluents and ditches formed as a result of irrigation of agricultural crops.

Contamination of water bodies with petroleum is very dangerous. Petroleum covers the surface of the water, making it difficult for oxygen to pass into the water; worsens the ecological conditions of plants and animals. Every year, 2-10 million people enter the world's oceans. t oil falls. 1 ton of oil forms an oil film on the surface of 12 km³ of water.

The main factors generating thermal or hot wastewater are metallurgy, chemical and other plants, thermal and nuclear power plants. Its capacity alone is 2.1-2.4 million. At GRES with kW / h, 60 m³ of water per second is used to cool the units. A nuclear power plant with such capacity requires 1.5-2.0 times more water than it.

There is no doubt that water pollution is a major problem facing many people today. Although there are many countries that have been trying to combat this problem in recent years.

How is the water polluted? It is well known that water is necessary for life, so its pollution is very harmful to the economic and social development of areas where water is water. Their condition is bad. Many times we don't know that polluted water is caused only by large factories and factories operating elsewhere located near rivers or the sea. The sea and water are good

for everyone because we also have a responsibility. That way, nothing should be thrown into the water, and even less debris or anything that reaches the sea from the toilet of our house.

The onset of water pollution

Water pollution as a result of human activity begins to occur in the industrial revolution. Unfortunately, this has increased until it becomes a widespread and widespread problem. During the Industrial Revolution, the proliferation of consumer goods and their production processes required large amounts of water to replace raw materials. In turn, the wastes of these processes were dumped into natural water streams without any control. Here began the spread of disturbing water pollution.

Where does water pollution come from?

Typically, water pollution occurs through the direct or indirect discharge of various pollutants into water sources (rivers, seas, lakes, etc.). When nature receives less pollutants, it has the ability to cleanse itself and thereby restore balance. The problem begins when contaminants exceed the system's absorption capacity.

The main forms of water pollution:

One is the natural cycle associated with it, during which time it can come into contact with certain contaminants (e.g., dissolved or suspended mineral and organic substances) present in the earth's crust, atmosphere, and water. But another type of water pollution - which tends to be the most important and harmful - is particularly related to human behavior. We have a lot of options here. Among the most common ones we can mention the following:

Residual toxic substances are discharged from industrial and municipal processes into rivers, seas and lakes.

Pollution produced by Intensive use of pesticides and fertilizers in agriculture is intensive, they are absorbed into the subsoil.

Garbage dumped on the shores, unfortunately, takes hundreds or thousands of years to break down. The use of polluting fuel on boats that end up at sea as a result of boat cleaning or accidents such as Prestige.

Pollution of water resources

Not only is the sea accepting pollution, in fact we have a big problem because of the pollution of rivers and lakes. Unfortunately, there are many agents that pollute rivers and lakes. Most importantly:

sewage water and other residues that require oxygen (they are usually organic substances and water is not oxidized as a result of their decomposition).

Infectious substances eventually cause diseases of the gastrointestinal tract and even terrible diseases (plague, ...) to those who drink this water.

Plant Nutrition They are designed to stimulate the growth of aquatic plants, which break down, deplete dissolved oxygen, and cause more unpleasant odors. Chemical products are found in pesticides, various industrial products, chemical detergents, soaps and decomposition products of other organic compounds.

Consequences of water pollution

It is known that such water pollution can lead to pollution of rivers, pollution of the sea, or even lakes, reservoirs, dams ... After all, everything in the water. First of all, this pollution affects the animal world and the creatures that can live in it. In this way, the contaminants

occupy the food chain until they reach higher links, that is, to us. By feeding living things that live in polluted water, such as fish and crustaceans, we ingest and accumulate toxins that they consume, which can lead to long-term consequences, such as allergies and even cancer.

In addition, the more nutrients we accumulate in the food chain, the more toxins we accumulate than other organisms throughout our lives. In fact, recent research shows that Spaniards have ten times more mercury in their blood than Germans because they consume more fish in Spain. It should also be borne in mind that contaminated water can contain and cause various diseases such as typhoid, plague, gastroenteritis. population mortality, especially child. Clean and healthy water governs human development and well-being.

How to help reduce water pollution?

Typically, our over-consumption is a major culprit for water pollution, as the production of all types of goods implies excessive consumption of water and its pollution. For example, hundreds of colorants and highly polluting substances are used to make clothes just like shoes.

Intensive agriculture, which requires pesticides due in large part to contamination, Production consumes large amounts of water and leads to the discharge of pollutants into waterways. In addition, the use of these pesticides and fertilizers contaminates soil and water layers. We can contribute to the reduction of pollution by consuming organic products, thereby reducing the output of intensive agriculture.

Ocean pollution

While this may not seem like it, it is important that we understand the dangers of ocean pollution and that many species 'marine life is preserved as a result. gives us the opportunity to have oxygen, the same breathing oxygen.

Deliberate dumping of hand waste, oil spills, and the dumping of a wide variety of solid chemicals into the ocean cause its pollution to affect not only the plants and marine species that live in them, but also the world's population.

The oil spills

Brent is currently the biggest threat posed by ocean pollution, as oil production and transportation have grown significantly to meet the needs of the current economy. The negative effects of ocean oil It is said that more than 80% of the pollution that occurs in the oceans is our fault, and that is mainly due to our improper production. In addition, due to the many efforts made in the clean-up to destroy the oil residues on the ocean floor, the damage to the aquatic and marine life it has shown will last for at least 10 years. Given the number of oil spills several times a year, the number of such impacts is catastrophic.

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