



***The ecological problems of water resources in Russia. Lake Baikal.***

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# Introduction

Water pollution is the contamination of water bodies (e.g. lakes, rivers, oceans and groundwater). Water pollution affects plants and organisms living in these bodies of water and in almost all cases the effect is damaging not only to individual species and populations, but also to the natural communities.

A person's hands are shown holding a small green seedling with three leaves. The background is a bright blue sky with white clouds. The overall image conveys a message of environmental care and growth.

***Aim***

***to research the  
ecological problems  
of water pollution in  
Russia***

# ***Tasks***

- ***to identify the main types of pollution in Russia;***
- ***to learn about types of pollution of Lake Baikal;***
- ***to develop activities for the protection of Lake Baikal***



# **TYPES OF WATER POLLUTION**

There are two main types of the water pollution.

## **ON SURFACE**

The surface water is the entire amount of the water found in oceans, seas, rivers, lakes, stream.

There is any sort of the contamination in the surface water it is called the surface water pollution which further be called individually as marine pollution, sea pollution, river pollution, lake pollution etc. On the basis of taste it may be divided into two categories one is drinking water contamination and the second one is salt water contamination.

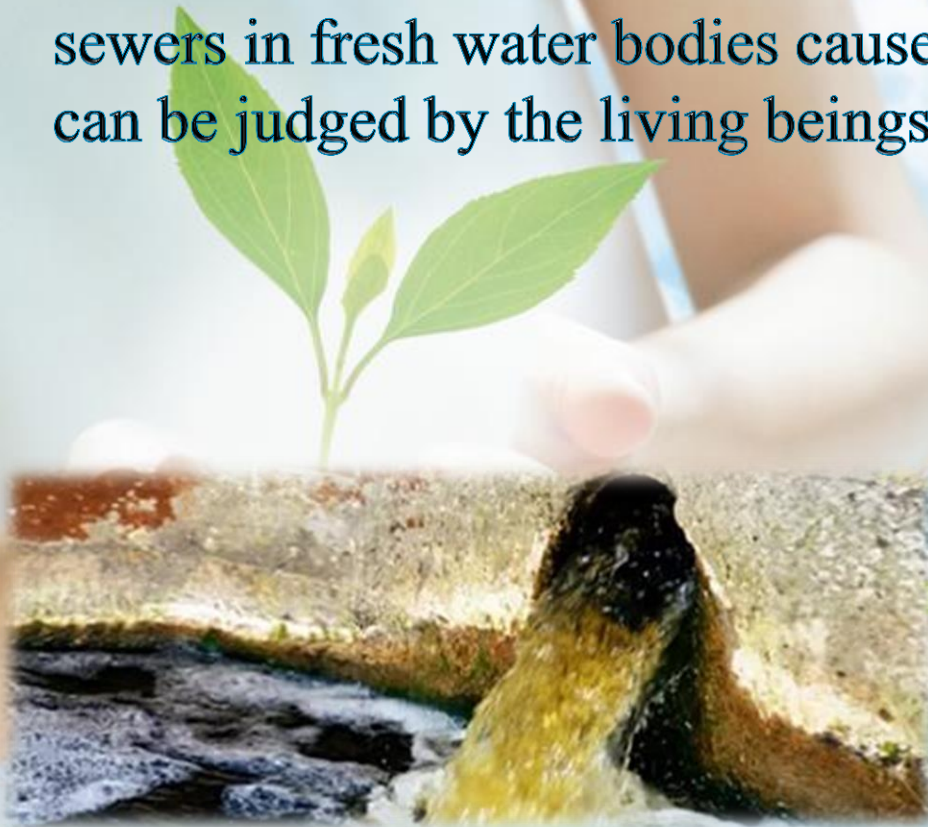
## **UNDERGROUND**

The groundwater means the water available under the ground in aquifers. It is polluted by the human activities .

Every polluting activity on land causes the ground water pollution.

# ***Sewage and wastewater***

Entire civic affluent is called sewage. Emptying the drains and sewers in fresh water bodies causes water pollution. Its amount can be judged by the living beings on the world.





# ***Industrial effluent***

It is the second hugest cause of the water contamination. Polluting by the factories spread into the whole of a water body and all countries which touch it have to suffer from the harms of the water pollution.



# ***Chemical waste***

The chemical waste is the all such waste which has more. It is generated in the manufacturing process to produce chemical related products like paints, germicides, insecticides, pesticides, chemical fertilizers. in daily human activities a lot of chemical becomes part of the wastewater and sewage and it contributes rise in the water pollution.





# ***Radioactive waste***

The waste generated in nuclear power plants is called radioactive waste. Owing to the strategic importance of such plants, most of the countries prefer to dispose off their radioactive waste directly into the sea.



# ***Thermal pollution***

It is another main cause of the water pollution which is the result of the manufacturing activities of the power plants which first take the water from river or sea then bring it to the highest level of temperature for their manufacturing purpose and then directly release it to the water body and disturb the natural temperature of that water body. Owing to sudden rise in temperature water loses its many natural features and gets polluted.



# ***OIL SPILLS***

It is not only the leakage of oil from the oil tanks of the ships or from the oil-carrying vessels but also the normal seepage of oil and fuel from vessels and large boats which entirely change the chemical composition of the water. Besides, oil spills from the factories located near a water body also add the pollution load into the water. Oil spillage into sea-water during drilling and shipment pollute it.





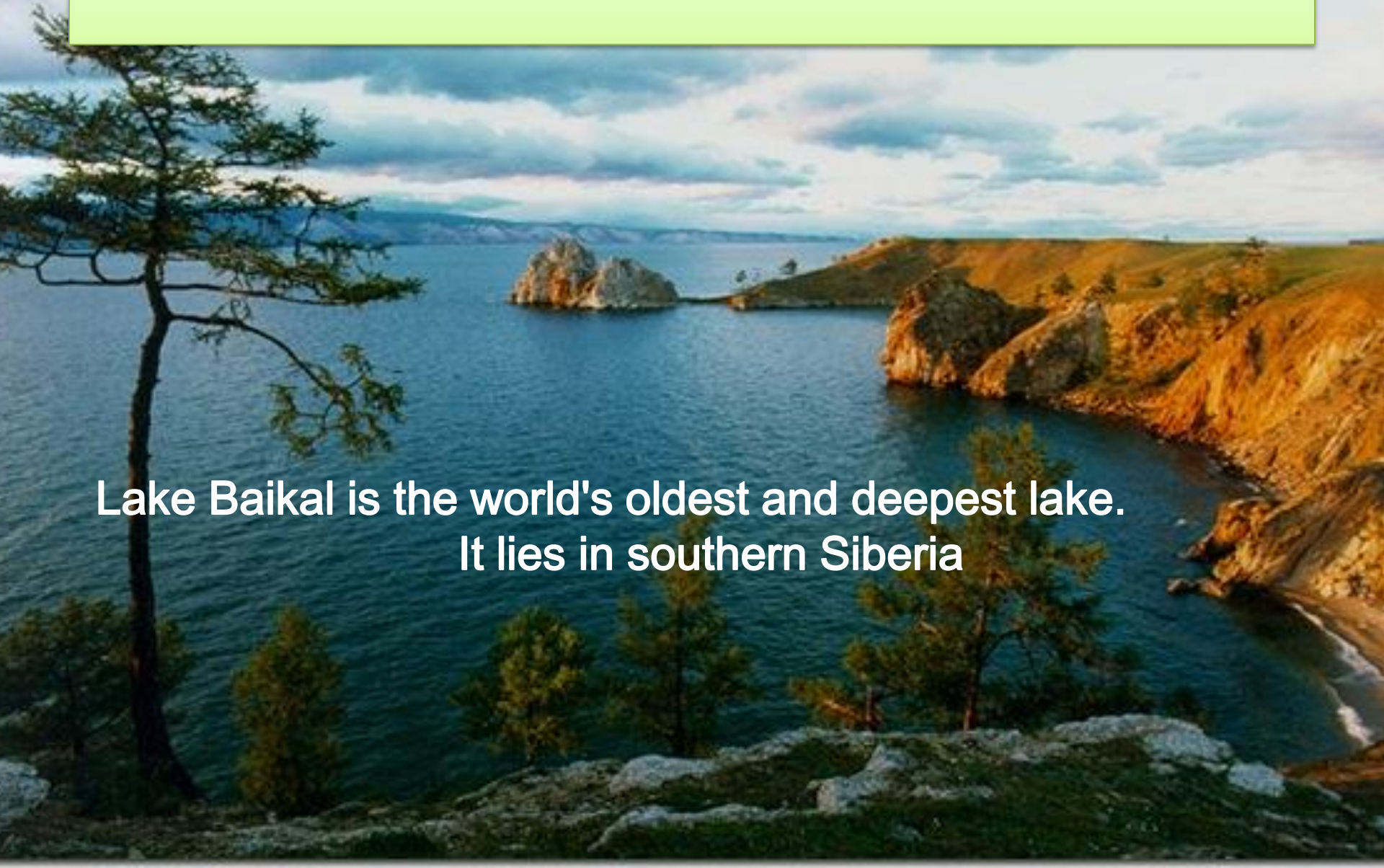
# ***EFFECTS***

The polluted water if consumed for the drinking purpose directly affects our entire body and its harmful bacteria if stay inside our body may result various fatal diseases.



# ***Lake Baikal***

Lake Baikal is the world's oldest and deepest lake.  
It lies in southern Siberia





# **Environmental problems of** **Baikal**

## ***Water pollution of Lake Baikal***

Pollution comes from steel and wood processing companies. Many pollution come from the tributaries of the Selenga, metallurgical plants is discharged into the water, tens of thousands of tons of harmful chemicals. Animal waste and soil erosion are also negatively affect the water quality in the lake Baikal. High pollution delta. Selenga are considered the main cause of death of calves cisco.



# **Environmental problems** **of Baikal**

## **Pollution of Lake Baikal household drain coastal settlementsю**

In the villages and small towns on the shores of Baikal live about 80 000 people, all of this population drops in the water a lot of waste.

A particular problem is the pollution of the lake water with oil products. Each year, falls into the lake about 160 tons of oil products.

# ***Destruction of fish***

In recent years has increased dramatically reducing the number of fish in the lake. The reason for that air and water pollution, over-fishing abuse people. Now to restore fish populations on Lake Baikal, there are many fish farms. Baikal sturgeon fishing is prohibited, due to the sharp reduction in the form it has been listed in the Red Book.

# ***Help protect the lake!***

Pollution of Lake Baikal Measures have been taken to prevent the threat of pollution. Logging was stopped on the rivers and as a result wood transportation on Lake Baikal reduced. Many industrial enterprises have been converted to a closed water system. However, these measures are not enough. There is still a threat of pollution. Today the biggest threat to the lake pollution comes from two sources - the city of Ulan-Ude and Baikal Pulp and Paper Plant. When factories were built, there was a dramatic public protest against their construction, motivated by the inevitable contamination of unique pure waters of the lake, inhabited by unusual living creatures, which can be found only there. However, public protest was in vain. Factories were built. Baikal is becoming contaminated. Pollutants have an impact on its plant and animal life and reduced the water quality of Lake Baikal. Knowing this led us to the conclusion that that the Baikal pulp and paper mills must be replaced by new mills using new water treatment systems.



**Thank you for your  
attention!**

