



Integrated Assessment of Water Quality of Buna River, Helping in the Protection of Biodiversity of This Environment[#]

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Abstract: The economic activity of the people and its interventions in the environment are significant effects on the quality of water. With particular importance there are polluting activities, such as urban discharges, industrial, agricultural and livestock, the use of pesticides and other chemicals on land or water which pollute dangerously the water environment. In this sense, it is important to assess the quality of surface water of Buna River and determine the main pollutants emitted into them, with the goal of environmental protection and rehabilitation. Water quality reflects social, economic, physical situation and state of development of the investigation area. In the last decades the range of pollution activities in this region is growing both in qualitative and quantitative terms. This review is based on ecological approach in water quality assessment that combines the physical, chemical, biological and microbiological aspects of the quality of Buna River. In this material there is given information about physical-chemical, and microbiological, biological qualities of Buna River, and their classification according to Directive of EU as well as, according to Classification of Norwegian Institute for Water Research (NIVA).

Keyword: *physical -chemical parameters, microbiological parameters, biological parameters, directive of EU for waters.*

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