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Industrial Wastewater and its Toxic Effect on Human †

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Abstract: Industrial waste disposal is a major source of worry since it releases harmful metals into the environment, causing environmental deterioration and, as a result, human health repercussions. The purpose of this study was to determine the potential source and movement of pollutants in surface water and groundwater and the related health concerns in the industrial region. Water pollution control has gotten a lot of attention as one of the most pressing environmental issues since water is prone to contamination. Because the bulk of these combined pollutants accumulates in water at concentrations that exceed the legal discharge limits in the environment, this poses a serious health danger to humans, aquatic life, and the entire ecosystem. Water quality deteriorates due to various factors, including heavy metals, dyes, pathogens, and chemical contaminants. Water treatment methods have become more concerned as the demand for pollutant-free water has grown. The contaminants can be reduced through physical, chemical, and biological methods, reducing the health and environmental consequences. Diverse wastewater treatment processes are briefly summarised, emphasizing feedstock pre-treatment and post-treatment. Filtration, reverse osmosis, degasification, sedimentation, flocculation, precipitation, and adsorption are some methods that may be used to remove pollutants from water. This audit includes a variety of approaches that demonstrate the incredible power of removing contaminants from wastewater.

Keywords: industrial waste; water pollution; heavy metals etc.

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Conflicts of Interest

The authors declare no conflict of interest.