
An Analytical Investigation of Surface Water Quality and Pollution Status in Srinagar, Jammu and Kashmir, India

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Abstract

In the present study, physico-chemical characteristics of surface water such as dissolved oxygen content, biological oxygen demand, conductivity, total dissolved solids, turbidity, pH, alkalinity, iron content, chloride content, hardness and nitrate content were determined for the water samples obtained from Jhelum river and Dal lake in Srinagar which are major sources of surface water for the city. The obtained results were compared with the allowable limits as specified by the Indian Standard code 10500:2012 to assess the quality of water. Statistical Methods were also used to find variability of each factor across the city. Extensive correlation analyses reveal that there is a relationship between variables which shows that one variable causes changes in another variable.

Keywords: water quality parameters, correlation coefficient method, surface water, physicochemical analysis, Pollution.

1 Introduction

Contamination of water or water pollution, in its largest sense, in corporate all progressions which shorten common utility and apply unsafe

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