

POLLUTION STUDIES ON WESTERN YAMUNA CANAL AND YAMUNA RIVER

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The pollution status of Western Yamuna Canal from Yamuna Nagar to Haiderpur and Yamuna river from Hathnikund to Okhla as assessed by various physico-chemical parameters in three seasons has been studied. The quantitative determination of Cd, Cr, Cu, Fe, Ni and Zn was also carried out. The results indicated that the Western Yamuna Canal is not under heavy pollution stress but the Yamuna river in the 22 km stretch in Delhi is still highly polluted. Physico-chemical characteristics of fourteen major drains which confluence with Yamuna river in Delhi and their heavy metal content has been studied. A study to assess the drinking water quality and performance evaluation of various Treatment Plants in Delhi has been carried out. Removal of heavy metals using polyesteramide polyurethane (PEAU)-Zeolite adsorbent has been attempted. Some pollution control measures to bring down the pollution load of Yamuna river (Delhi stretch) have been suggested.