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Monitoring of metal contamination in groundwater in western Haryana, India

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The present study was conducted to investigate levels of trace metals Zinc, Copper, Manganese, Iron and Potassium of groundwater samples in Sirsa District of Western Haryana, India. The Atomic Absorption Spectrophotometer was used to assay the levels of metals and Flame Photometry was used to analyze Potassium. The results indicate that Zn, Cu, Mn, Fe and K varied from 5.9 to 1950 µg/l, BDL to 240 µg/l, 3 to 28 µg/l, 47 to 2383 µg/l and 2930 to 35190 µg/l respectively. The pH and electrical conductivity (EC) ranged from 7.1 to 7.8 and 435 to 13180 µS/cm. The results were compared with permissible limits set by World Health Organization and United States Environmental Protection Agency.

Biography

Samriti Sharma has studied Master of Science in Physics at Lovely Professional University, Jalandhar, Punjab, India and proceeded to do her PhD from Chandigarh University Gharuan. She is passionate about the research topic she has chosen and is doing a thorough and detailed investigation of the topic estimation of natural radioactivity in the environs of western Haryana. She has developed an interest about health and well-being of people of rural community.

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