

Contribution to the treatment of metal pollutants with potential for endocrine disruptors

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Abstract

In recent years, the quality of surface water in the city of Fez has deteriorated day after day due to the development of various anthropogenic activities, reckless human action, the discharge of wastewater in an unregulated manner and waste. This poses a worrying threat to man and the environment. Upstream treatment of this water would be desirable.

The objective of this study is to contribute to the treatment of metallic pollutants from surface water discharged into the most polluted wadis identified in the city of Fez: wadi Tghat and Zhoun, by coagulation-flocculation.

The results of the treatment of these surface waters discharged into wadis Tghat and Zhoun which downstream wadi Fez by coagulation-flocculation under optimal conditions, from pH to 6.5, a dose of Aluminum Sulphate coagulant equal to 0, 15 gL⁻¹ and Praestol flocculant equal to 1 mg.L⁻¹, in a time of rapid coagulation and slow flocculation of 3min at 150 rpm-1 of coagulation and 20 min at 20 rpm-1 of flocculation made it possible to reduce their overall metallic load by approximately between 90% and 94, ie: almost 94.26% Cr; 93.76% of As; 92.98% of Pb and 92.24% of Cd at wadi Tghat and 93.34% of Cr; 90.71% of As; 92.11%; from Pb and 92.94% from Cd to oued Zhoun

chemistry on September 2019 in the Sidi Mohamed Ben Abdellah University, Fez (Morocco); she has 12 published papers in different national and international scientific journals indexed. She participated with more than 20 communications in national and international congresses.

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Biography

Dr EL MADANI Fatima-Zahra has her expertise in identification and treatment of pollutants with a potential for endocrine disruptors. She got her doctorate in