

## **Contamination in Traces Metals of Superficial Sediments at the Exitoire of Tensift River-Souira Qdima (Moroccan Atlantic Margin)**

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This work aims essentially to approach the degree of chemical contamination of superficial sediments. Indeed, surface sediments have been sampled and analyzed at about five kilometers downstream Tensift river as well as at its exitoire at Souira Qdima located at about twenties kilometers to the South of Safi city on the Moroccan Atlantic margin. Sedimentary dynamics in this part of Tensift River shows an unusual evolution of granulometry from upstream to downstream which increases and decreases in relation with anthropic activity (overlaying of watersheds by construction and demolition wastes such as bricks, cements, glasses, etc.). The organic matter is present with relatively elevated contents in positive interrelationship with fine sedimentation. The six heavy metals analyzed in the superficial sediments show relatively strong and variable concentrations:  $Zn < Cr < Pb < Ni < Cu < Cd$ . The correlative study of these metallic elements confirms the anthropic and natural origin and natural of metals found especially in the fine fraction with elevated concentrations.