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Physico-Chemical Analysis of Kasur Land Soil Reclaimed After Pretreatment of Tannery Wastewater

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ABSTRACT

Four hundred acre land of Kasur, Pakistan contaminated by tannery effluent has been reclaimed by installation of pretreatment plant. The reclaimed land soil was subjected to physico-chemical analysis as an effort to determine its status with reference to its suitability for agricultural practices and results are reported in this article. The concentrations of the parameters such as pH, Electrical Conductivity (EC), Organic Matter (OM), Organic Carbon (OC), Available Phosphorus (P), Potassium (K), and Sodium (Na) were determined by standard methods of analysis. The results were computed and compared with various international standards for agriculture recommended by international organizations, groups of experts and or individual researchers. The results revealed that pH, EC, OM, OC, K and Na are in accordance with the prescribed limits but P in soil exceeds the range of P for agricultural soil. Thus, the reclaimed soil in Kasur can be inferred fit for the purpose of agricultural activities.

Keywords: Analysis, Tannery Wastewater, Reclaimed, Soil, Kasur, Pre treatment.
