



Impact of Rice Mill Wastes Dump on Soil Physico-chemical Properties in Abakaliki, Southeastern, Nigeria

J.N. Nwite and C.V Azuka¹

Department of Soil Science and Environmental Management, Faculty of Agriculture and Natural Resources Management, Ebonyi State University, P.M.B 053 Abakaliki, Nigeria.

¹*Department of Soil Science, University of Nigeria, Nsukka, Nigeria
E-mail: nwitejamesn@yahoo.com*

Abstract: Soil samples were collected at four distances away from rice mill waste dump and analyzed to determine their relative impacts on bulk density, total porosity, gravimetric moisture content, pH, P, N, OC, Ca, Mg, K, Na, CEC, EA and BS for two seasons. Results showed significantly ($P < 0.05$) physicochemical properties of soil were obtained at 50 m distance from dump and diminished at other distances away that from dump in a trend higher of 150 m – 200 m for the period of study. It is recommended that rice mill wastes if properly managed promise to be a veritable amendment material for soil fertility improvement and sustainable productivity.

Keywords: Dump, High, Impact, Physicochemical, Rice wastes, Productivity
