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Analysis of organo-chlorine residues in River Benue at Makurdi using gas chromatography coupled with electron capture detector**Ogah Ekirigwe¹, Eneji I S², Abiaziem C V³, Ushie A O¹ and Longbap B D¹**¹Federal University Wukari, Nigeria²University of Agriculture Makurdi, Nigeria³Federal Polytechnic-Ilaro, Nigeria

Organochlorine Pesticides (OCPs) concentrations along the Benue River at NASME and at Benue Brewery were studied during both wet and dry seasons. A total of 12 water samples were collected and determinations were made. Gas Chromatography/Electron Capture Detector was used for OCPs analysis. In these analyses, aldrin, α -BHC, β -BHC, δ -BHC, chlorothalonil, dieldrin, endosulphan I, endosulphan II, endrin, endosulphan sulfate, heptachlor B, heptachlor epoxide, lambda cyhalothrin, lindane, permethrin, P'P-DDT, P,P' DDD were widely distributed at the various locations. α -BHC has the least average concentration of 0.00643 ppm while permethrin has the highest average concentration of 2.2506 ppm. The result portrayed by this research suggests some intolerable levels of pesticides concentrations at some locations.

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