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A Survey of Organochlorine Pesticide (OCP) residues in sediment samples of Veeranam Lake, Tamil Nadu

Kolandaivelu Padmanaban^{1*}, Bhuvaneshwari Rangarajan²,
Ramaswamy Babu Rajendran³

¹Department of Biotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India

^{2,3}Department of Environmental Biotechnology, Bharathidasan, University, Tiruchirappalli Tamil Nadu, India

Abstract : The study aimed at analyzing the levels of Organochlorine Pesticide (OCP) residues in the sediment samples of Veeranam Lake. The sediment samples were collected from 10 different locations. The sediment samples were analyzed for 17 different pesticides viz., hexachlorocyclohexane (α , β & γ - HCH), Cyclodiene (aldrin, dieldrin and endrin), heptachlor, hexachlorobenzene (HCB), trans-Chlordane, cis-Chlordane, mirex and diphenyl aliphatic (p,p'-DDE, o,p'-DDE, o,p'-DDD, p,p'-DDD, o,p'-DDT, p,p'-DDT). The detection frequencies of HCHs, aldrin, dieldrin and DDTs were higher in the sediment samples of Veeranam Lake. The levels of heptachlor and cyclodiene compounds (aldrin and dieldrin) exceeded the sediment quality guidelines and probable effect levels of Canadian freshwater sediment quality guidelines (CFSQG) in some locations of the study area.

Keywords : Organochlorine Pesticide Residues, Veeranam Lake, Sediment.

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