Contamination by polybrominated diphenyl ethers and persistent organochlorines in catfish and feed from Mekong River Delta, Vietnam

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Abstract: Commercial feeds for aquaculture and catfish samples were collected from the Mekong River Delta, Vietnam, for determination of polybrominated diphenyl ethers (PBDEs) and selected persistent organochlorines, including polychlorinated biphenyls (PCBs), DDT and its metabolites (DDTs), chlordane-related compounds (CHLs), hexachlorocyclohexane isomers (HCHs), and hexachlorobenzene (HCB). The most abundant contaminants were DDTs, with concentrations ranging from 10 to 700 ng/g lipid weight, followed by PCBs (1.0-80 ng/g), CHLs (Author Keywords: Aquaculture feed; Dumping site; Fish; Organochlorines; Polybrominated diphenyl ethers
Index Keywords: Biodiversity; Chlorine; Contamination; Isomers; Metabolites; Organic compounds; Aquaculture feed; Dumping site; Fish; Organochlorines; Polybrominated diphenyl ethers; Ethers; chlordane; hexachlorobenzene; hexachlorocyclohexane; organochlorine derivative; polybrominated diphenyl ether; polychlorinated biphenyl; DDT; feeding behavior; fish; lipid; organochlorine; PBDE; PCB; pollutant; risk assessment; runoff; aquaculture; article; catfish; controlled study; nonhuman; priority journal; risk assessment; Viet Nam; Animal Feed; Animals; Aquaculture; Catfishes; Hydrocarbons, Chlorinated; Polybrominated Biphenyls; Vietnam; Water Pollutants, Chemical; Asia; Eurasia; Mekong Delta; Mekong River; Southeast Asia; Viet Nam

Year: 2006
Source title: Environmental Toxicology and Chemistry
Volume: 25
Issue: 10
Page : 2700-2708
Cited by: 16
Link: Scopus Link
Chemicals/CAS: chlordane, 12789-03-6, 57-74-9; hexachlorobenzene, 118-74-1, 55600-34-5; hexachlorocyclohexane, 608-73-1; Hydrocarbons, Chlorinated; Polybrominated Biphenyls; Water Pollutants, Chemical
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ISSN: 7307268
CODEN: ETOCD
DOI: 10.1897/05-600R.1
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