Dioxins (PCDDs/PCDFs)

Persistent Organic Pollutants, highly toxic to human health and ecosystems

Low solubility rates, strong adsorption on organic particles, determine the stability of dioxins in the aquatic environment

High ability to be incorporated into food chains

Bottom sediments

they are the final deposition place of various pollution

Organic matter

the most important component of BS, and mainly responsible for the sorption properties of BS

quantity and quality of OM determine behaviour of dioxin in the aquatic environment

The aim of study was to determine the content of OM and PCDDs/PCDFs in sediments, and to evaluate the interaction between fractions of OM and content of dioxins in sediments from Rybnik Reservoir