

For sediment and soil samples, they were digested in a closed poly-tetrafluoroethylene system with an acid mixture of HNO₃ (5 mL)-HF (1 mL)-HClO₄ (1 mL) at 180 °C for 10 h (Huang et al. 2015). The total concentrations of Cd, Cu, Ni, Pb, Cr, Zn, Fe, and Al in the digestion solutions were then analyzed by an inductively coupled plasma-atomic emission spectroscopy (ICPAES; IRIS Intrepid II XSP, Thermo Electron, USA). Because the source discrimination power of Pb stable isotopes is mainly due to ²⁰⁶Pb, ²⁰⁷Pb, and ²⁰⁸Pb (Sangster et al. 2000), they were measured for sediment, soil, and anthropogenic source samples by an inductively coupled plasma-mass spectrometry (ICP-MS; Agilent 7500, Agilent Technologies, USA). The relative standard deviations for duplicate samples were generally lower than ..1%