Supplementary materials

Sediment quality indices

Enrichment Factor (EF) (Abrahim and Parker, 2008)

$$EF = \frac{E_x}{E_b} X \frac{Al_b}{Al_x}$$

Table S1: Range Classification for EF, E_rF and PERI

Enrichment factor	**Range**	**Definition**
EF	< 2	Deficient to minimal enrichment
EF	2 – 4.99	Moderate enrichment
EF	5 – 19.99	Significant enrichment
EF	20- 39.99	Very high enrichment
EF	≥40	Extremely high enrichment

Ecological risk factors	**Range**	**Description**
ErF	< 40	low potential ecological risk
ErF	40 – 79.9	moderate potential ecological risk
ErF	80 – 159.9	considerable potential ecological risk
ErF	160 – 319.9	high potential ecological risk
ErF	≥ 320	very high ecological risk

Potential ecological risk index	**Range**	**Description**
PERI	< 150	- low ecological risk
PERI	150 – 299.9	- moderate ecological risk
PERI	300 – 599.9	- considerable ecological risk
PERI	≥ 600	- very high ecological risk