

Table S1. Descriptive statistics of bioconcentration factor of heavy metals and As.

| Variable | Sector | SD | Min | Median | Max |
|----------|---------------|-------|-------|--------|-------|
| BCF-Cu | Lower course | 6.72 | 1.97 | 10.77 | 21.91 |
| | Middle course | 7.16 | 2.41 | 9.97 | 24.83 |
| | Upper course | 5.08 | 4.12 | 7.55 | 20.06 |
| BCF-Pb | Lower course | 5.54 | 2.79 | 6.42 | 21.00 |
| | Middle course | 2.37 | 3.04 | 6.67 | 10.48 |
| | Upper course | 4.21 | 4.44 | 9.35 | 18.77 |
| BCF-Zn | Lower course | 16.97 | 21.47 | 40.57 | 82.28 |
| | Middle course | 21.95 | 22.71 | 37.90 | 95.96 |
| | Upper course | 19.82 | 23.57 | 40.87 | 80.91 |
| BCF-As | Lower course | 0.55 | 0.36 | 1.12 | 2.22 |
| | Middle course | 0.63 | 0.87 | 1.44 | 3.25 |
| | Upper course | 1.25 | 0.70 | 3.29 | 4.46 |

Table S2. Descriptive statistics of biosediment accumulation factor of heavy metals and As.

| Variable | Sector | SD | Min | Median | Max |
|----------|---------------|--------|--------|--------|--------|
| BSAF-Cu | Upper course | 0.0022 | 0.0062 | 0.0097 | 0.0146 |
| | Middle course | 0.0062 | 0.0075 | 0.0127 | 0.0291 |
| | Lower course | 0.0031 | 0.0042 | 0.0109 | 0.0142 |
| BSAF-Pb | Upper course | 0.0018 | 0.0027 | 0.0050 | 0.0086 |
| | Middle course | 0.0019 | 0.0043 | 0.0064 | 0.0101 |
| | Lower course | 0.0015 | 0.0019 | 0.0045 | 0.0068 |
| BSAF-Zn | Upper course | 0.0024 | 0.0114 | 0.0140 | 0.0185 |
| | Middle course | 0.0014 | 0.0133 | 0.0154 | 0.0177 |
| | Lower course | 0.0018 | 0.0085 | 0.0113 | 0.0138 |
| BSAF-As | Upper course | 0.0001 | 0.0001 | 0.0003 | 0.0004 |
| | Middle course | 0.0002 | 0.0003 | 0.0006 | 0.0010 |
| | Lower course | 0.0009 | 0.0008 | 0.0026 | 0.0032 |