

Table S1 Soil content of total N, available P, available K, SOC, C:N and Pb under different sampling areas.

Sampling areas	Total N (g kg <sup>-1</sup> )	Available P (mg kg <sup>-1</sup> )	Available K (mg kg <sup>-1</sup> )	SOC (g kg <sup>-1</sup> )	C:N ratio	Pb (mg kg <sup>-1</sup> )
UF	2.74 ± 0.29 a	65.01 ± 2.86 a	25.3 ± 1.19 a	12.31 ± 0.38 a	4.49 ± 0.14 d	18.77 ± 0.91 e
F1	1.35 ± 0.16 b	8.00 ± 0.38 c	7.11 ± 0.26 b	6.01 ± 0.17 c	4.46 ± 0.12 d	1333.15 ± 55.92 b
F2	0.75 ± 0.09 d	3.06 ± 0.13 d	1.63 ± 0.06 e	6.19 ± 0.26 c	8.25 ± 0.34 c	9604.22 ± 275.42 a
UM	1.16 ± 0.14 c	12.01 ± 1.62 b	7.42 ± 0.33 b	3.89 ± 0.11 d	3.35 ± 0.09 e	43.24 ± 8.24 d
M1	1.57 ± 0.17 b	5.00 ± 0.18 d	6.63 ± 0.27 b	7.32 ± 0.26 b	4.67 ± 0.29 c	1222.31 ± 47.42 b
M2	0.24 ± 0.01 e	1.75 ± 0.05 e	4.67 ± 0.14 c	3.33 ± 0.07 e	13.86 ± 0.30 b	346.51 ± 16.93 c
M3	0.25 ± 0.01 e	1.63 ± 0.05 e	2.89 ± 0.09 d	6.14 ± 0.18 c	24.58 ± 0.72 a	324.49 ± 11.88 c

SOC, soil organic carbon; UF, unpolluted point (10-km-away area from the smelting factory); F1, smelting-factory wall-out area; F2, smelting-factory-in area; UM, unpolluted point (10-km-away area from the Pb mine); M1, mine opening; M2, new waste-residue stacking area; M3, outdated waste-residue stacking area. Data are presented as mean ± SD. Means followed by different letters in the same column indicate statistical difference ( $p < 0.05$ ).