

Table S33. Hazard quotient (HQ) and hazard index (HI) of heavy metals in root samples for children

Elements	HQ												
	RO1	RO2	RO3	RO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO12	RO13
Cd	0.01	0.02	0.01	0.003	0.004	0.03	0.01	0.03	0.04	0.04	0.04	0.04	0.03
Cr	0.82	0.92	0.81	0.85	0.98	1.71	1.71	2.18	2.99	1.28	1.44	1.14	1.04
Cu	86.71	109.61	89.61	75.33	76.85	86.49	83.12	79.09	119.24	89.38	76.17	96.77	72.76
Ni	0.01	0.01	0.01	0.01	0.01	0.04	0.02	0.06	0.09	0.06	0.04	0.06	0.02
Pb	1.16	1.12	0.96	0.76	0.87	1.08	0.89	1.22	1.18	0.87	1.31	0.85	0.81
Zn	7.78	3.54	3.01	2.86	2.34	4.46	1.54	1.09	1.37	1.57	1.15	1.51	1.32
Fe	3.70	3.76	0.59	1.80	2.76	1.62	2.53	2.06	6.74	1.12	0.88	1.27	7.23
Mn	4.92	8.75	5.02	4.50	5.16	4.26	5.73	4.42	7.32	6.62	3.97	4.79	4.41
HI	105.12	127.73	100.01	86.12	88.99	99.70	95.54	90.15	138.97	100.94	85.00	106.43	87.63

HI $\geq$ 1 $\rightarrow$ Non-cancer risk is possible

HQ $\geq$ 1 $\rightarrow$ Potential health concern