

Supporting information for

1 **Transversal immission patterns and leachability**
2 **of heavy metals in road side soils**
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4 **Table S1.** Loss of ignition (LOI), pH and metal concentrations (Cd, Cr, Cu, Ni, Pb, Sb and Zn) in
 5 road side soils at different depth and distance from road. The site is located outside Kalmar at E22
 6 in south east of Sweden.

Distance from road	Depth	LOI (%)	pH	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Zn (mg/kg)
0.4	0-1.5	6.1	6.0	0.22	53	63	10	29	8.2	260
	1.5-4.5	5.7	6.1	0.21	26	65	8.6	31	3.9	180
	4.5-7.5	3.3	6.1	0.23	20	56	7.8	140	1.8	160
	7.5-12.5	2.6	6.1	0.20	50	59	11	220	4.2	170
1.4	0-1.5	7.2	6.1	0.23	27	68	12	46	5.5	190
	1.5-4.5	5.1	6.1	0.28	31	55	8.3	110	2.3	170
	4.5-7.5	2.3	6.0	0.12	16	16	7.7	110	0.58	79
	7.5-12.5	0.83	6.0	0.078	12	12	3.9	20	0.40	52
	12.5-17.5	0.63	5.9	0.059	7.7	8.4	3.3	15	0.40	34
	17.5-25	0.59	5.7	0.048	8.7	6.2	3.6	11	0.45	33
2.5	0-1.5	5.8	5.7	0.17	38	46	9.0	96	2.1	180
	1.5-4.5	2.2	5.6	0.094	12	21	6.7	70	0.68	120
	4.5-7.5	0.78	5.5	0.14	8.9	11	4.2	21	0.82	100
	7.5-12.5	0.59	5.5	0.058	7.0	9.3	3.6	14	0.26	78
	12.5-17.5	0.51	5.4	0.045	10	9.0	4.3	13	0.31	74
	17.5-25	0.38	5.3	0.047	8.0	9.9	4.0	11	0.36	72
5.0	0-1.5	5.9	5.6	0.11	17	25	5.5	65	1.3	110
	1.5-4.5	2.9	5.0	0.095	12	15	5.6	53	0.92	89
	4.5-7.5	1.0	4.6	0.051	9.5	8.9	4.6	20	0.47	70
	7.5-12.5	0.75	4.5	0.056	10	8.9	4.9	12	0.82	67
	12.5-17.5	0.61	4.5	0.038	11	6.9	4.3	11	0.37	66
	17.5-25	0.57	4.5	0.051	8.5	6.8	4.3	9.8	0.21	67
7.0	0-1.5	41	4.7	0.64	31	66	20	60	4.6	370
	1.5-4.5	18	4.7	0.13	20	22	7.7	38	1.2	110
	4.5-7.5	3.5	4.8	0.063	20	14	6.1	20	0.82	50
	7.5-12.5	1.8	4.5	0.040	20	7.7	4.7	8.1	1.1	22
	12.5-17.5	2.8	4.5	0.020	23	8.8	4.6	7.3	0.65	19
	17.5-25	3.3	4.2	0.044	26	11	5.7	7.1	0.44	23
10.0	0-1.5	8.0	5.0	0.13	17	13	6.1	20	0.91	66
	1.5-4.5	6.4	5.0	0.14	19	11	6.2	19	0.67	38
	4.5-7.5	5.4	5.0	0.15	17	12	5.6	19	0.47	36
	7.5-12.5	4.6	5.1	0.14	17	12	5.5	17	0.96	32
	12.5-17.5	6.5	5.1	0.17	17	11	5.5	16	0.25	30
20.0	0-1.5	8.4	5.1	0.17	20	13	5.7	18	1.0	37
	1.5-4.5	7.4	4.9	0.17	19	12	5.7	17	0.47	34
	4.5-7.5	6.6	4.9	0.18	18	13	6.0	17	0.48	32
35.0	0-1.5	8.6	5.2	0.15	17	11	5.1	18	0.61	36
	1.5-4.5	6.8	5.2	0.15	18	11	5.2	19	1.0	33
	4.5-7.5	6.0	5.0	0.16	17	11	5.3	19	0.75	32
45.0	0-1.5	11	5.2	0.21	18	13	5.8	23	0.75	56
	1.5-4.5	7.8	5.1	0.17	22	12	5.2	24	1.0	38
	4.5-7.5	7.0	5.0	0.15	18	13	5.7	24	0.84	35
	7.5-12.5	6.0	4.8	0.15	17	12	5.7	24	0.26	32

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8 **Table S2.** Loss of ignition (LOI), pH and metal concentrations (Cd, Cr, Cu, Ni, Pb, Sb and Zn) in road
9 side soils at different depth and distance from road. The site is located outside Varberg at E6 in south
10 west of Sweden.

Distance (m)	Depth (cm)	LOI (%)	pH	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Zn (mg/kg)
0.4	0-1.5	8.3	5.2	0.22	24	110	123	15	4.5	310
	1.5-4.5	7.6	4.7	0.13	32	120	15	48	2.8	270
	4.5-7.5	5.5	4.7	0.056	19	50	14	16	1.1	110
	7.5-12.5	3.7	4.7	0.054	12	49	14	11	1.0	110
1.4	0-1.5	10	5.1	0.065	11	23	14	12	0.78	66
	1.5-4.5	8.3	4.7	0.72	6.7	19	2.7	12	0.61	45
	4.5-7.5	7.4	4.5	0.082	5.7	6.9	1.7	10	0.42	25
	7.5-12.5	7.4	4.4	0.076	4.0	4.9	1.0	6.0	0.32	19
	12.5-17.5	5.7	4.2	0.058	12	6.6	3.7	4.2	0.80	28
	17.5-25	4.7	3.7	0.019	17	7.3	4.5	3.0	1.2	35
2.5	0-1.5	5.7	5.7	0.075	11	10	4.2	3.7	0.71	39
	1.5-4.5	5.0	5.8	0.077	11	8.3	4.1	3.4	0.61	33
	4.5-7.5	4.9	5.8	0.077	10	9.0	5.6	3.5	0.45	32
	7.5-12.5	5.6	5.7	0.093	9.4	8.7	5.7	4.5	0.55	30
	12.5-17.5	7.0	5.8	0.092	5.7	5.9	3.3	4.9	0.47	23
	17.5-25	7.1	6.2	0.079	7.4	6.2	3.3	5.0	0.60	22
5.0	0-1.5	6.2	5.7	0.070	17	9.6	7.3	2.7	1.0	36
	1.5-4.5	5.1	5.7	0.062	14	8.2	6.6	2.8	0.71	27
	4.5-7.5	5.3	5.8	0.061	17	9.6	7.4	4.6	0.72	32
	7.5-12.5	5.5	5.8	0.037	22	11	9.0	2.5	1.0	36
	12.5-17.5	5.9	4.5	0.019	22	10	7.4	2.3	1.1	32
	17.5-25	11	3.8	0.032	48	22	14	3.1	1.6	64
10	0-1.5	8.0	5.7	0.046	15	9.1	6.4	2.5	0.72	31
	1.5-4.5	7.0	5.8	0.045	15	8.7	6.4	2.3	0.70	31
	4.5-7.5	5.5	6.4	0.044	15	9.0	7.1	1.9	0.61	31
	7.5-12.5	5.6	6.2	0.036	17	9.5	7.1	2.2	0.75	30
	12.5-17.5	8.6	4.1	0.017	29	16	10	1.5	1.6	41
	17.5-25	6.4	3.6	0.020	21	13	7.3	2.2	1.2	30
25	0-1.5	7.1	6.3	0.075	15	7.6	7.1	1.2	0.56	32
	1.5-4.5	6.2	6.4	0.098	18	8.5	8.9	2.1	0.63	38
	4.5-7.5	4.6	6.5	0.086	15	8.2	7.6	1.4	0.54	32
	7.5-12.5	2.0	6.5	0.032	9.4	3.7	3.5	1.4	0.20	13
	12.5-17.5	2.0	6.3	0.010	4.1	1.6	1.3	0.93	0.038	6.0
	17.5-25	3.0	5.0	0.008	5.9	3.1	1.8	1.1	0.075	8.3

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