

Supplementary data

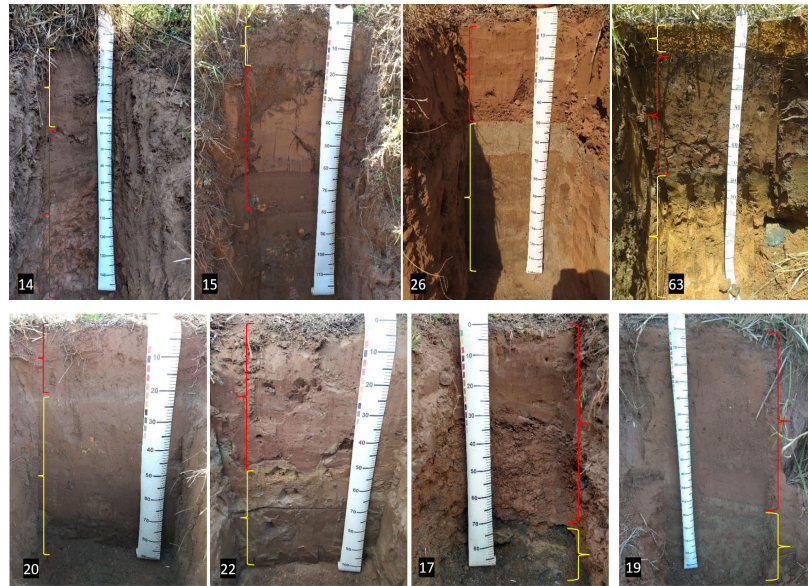


Figure 11. Examples of technosol profiles used in this study. Red markings show the layers affected by tailings and yellow the soil layers without tailings influence.

Table 8. Descriptive statistics of the physical and chemical parameters evaluated

Parameters	Horizons with tailings					Horizons without waste				
	n	Mean	SD	Min	Max	n	Mean	SD	Min	Max
pH H ₂ O	126	6.7a	0.7	4.4	8.4	47	5.9a	0.6	4.4	7.2
K (mg/dm ³)	126	33.6a	45.6	0	320	47	22.4a	19	0	92
P (mg/dm ³)	126	5.7b	2.8	0.7	18.5	47	2.2b	1.8	0.4	7.8
Ca	126	1.4a	0.7	0.2	3.4	47	1.2a	0.8	0.1	3.7
Mg	126	0.2a	0.3	0	1.4	47	0.3a	0.2	0	1
Al	126	0a	0.1	0	1.4	47	0.1a	0.3	0	1.2
H+Al	126	1.2a	1.1	0	5	47	1.7a	1.9	0	11.5
SB	126	1.4a	1	0	4.4	47	1.5a	1	0	4.9
CTC (t)	126	1.7a	0.9	0.3	5.1	47	1.6a	1	0.2	4.9
V (%)	126	64.8a	22	5.7	100	47	52.6b	21.9	6.1	100
MO (%)	126	0.7a	0.6	0	2.7	47	1a	2.5	0	15.7
m (%)	126	0.7a	0.6	0	2.7	47	5.1a	14.9	0	84.2
Fine sand	126	133.4	114.9	16	610	47	202.7	139.86	0	680
Coarse sand	126	416.2	130.67	50	790	47	285.4	242.6	0	940
Silt	126	314.8a	134	30	602	47	191.9b	116	19	510
Clay	126	146.4a	108	10	590	47	166.1a	126	46	531

Table 9. PCA Results - Dimensions and contribution of variables

Variáveis	Dim1	Dim2	Dim3	Dim4	Dim5
pH_H2O	-0.53	0.53	0.39	-0.16	0.18
pH_Kcl	-0.47	-0.01	-0.14	0.32	-0.55
P	-0.36	0.38	0.37	0.07	0.56
K	0.34	0.37	-0.13	0.27	0.45
Na	0.06	0.24	0.47	-0.32	-0.24
Ca2	0.41	0.85	-0.06	-0.04	-0.15
Mg2	0.68	0.42	-0.41	-0.01	-0.10
Al3	0.59	-0.59	0.23	0.19	0.02
H_Al	0.89	-0.22	0.04	0.22	0.07
SB	0.53	0.81	-0.14	-0.02	-0.10
t	0.67	0.70	-0.10	0.02	-0.10
T	0.94	0.23	-0.04	0.15	0.00
V	-0.56	0.58	0.17	-0.02	-0.17
m	0.53	-0.62	0.23	0.12	0.00
MO	0.61	0.07	0.09	0.50	0.19
P_rem	-0.57	0.13	-0.50	0.11	0.26
Coarse.sand	0.41	-0.15	-0.26	-0.69	0.30
Fine.sand	-0.53	-0.08	-0.62	0.30	-0.07
Silt	-0.38	0.32	0.64	0.42	-0.01