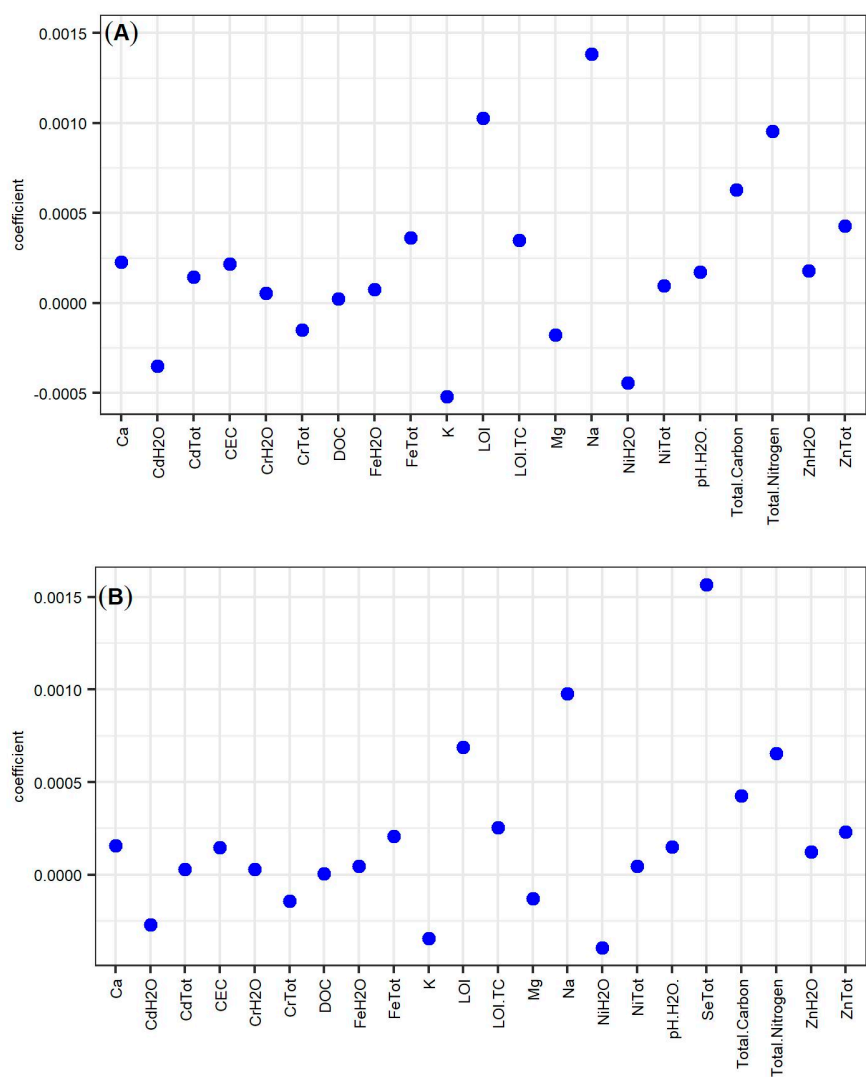


Supplementary table S1. Communalities (correlations between original variables and PCs) from principal component analysis

	PC1	PC2	PC3
pH (H ₂ O)	-0.68	-0.68	-0.05
DOC	0.05	0.76	0.39
LOI	-0.73	0.47	0.38
Tot. C	-0.79	0.17	0.52
LOI/TC	0.51	0.26	-0.45
Tot. N	-0.68	0.52	0.41
Na	-0.56	-0.22	0.09
K	-0.63	-0.27	-0.18
Ca	-0.86	-0.41	0.14
Mg	-0.43	-0.39	-0.33
CEC	-0.87	-0.37	0.18
Cr _{H2O}	0.02	0.62	-0.61
Fe _{H2O}	0.54	0.69	0.06
Ni _{H2O}	-0.19	0.71	-0.46
Cd _{H2O}	0.43	0.65	0.26
Zn _{H2O}	0.39	0.71	0.28
Se _{H2O}	-0.73	0.31	0.17
Cr _{Tot}	-0.55	0.38	-0.64
Fe _{Tot}	-0.72	0.27	-0.49
Ni _{Tot}	-0.71	0.33	-0.53
Zn _{Tot}	-0.65	0.51	-0.14
Cd _{Tot}	-0.50	0.46	0.24
Se _{Tot}	-0.74	0.42	0.06



Supplementary figure S1. Coefficients of calibrated PLS models A and B from figure 6 in the main text.