

Table S4. Axes scores of the environmental predictors of soil macrofauna community variation extracted after RDA ordination

Property	All predictors, $R_{adj}^2=0.29, p<0.001$		Year partial effect, $R_{adj}^2=0.22, p<0.001$		Polygon partial effect, $R_{adj}^2=0.18, p<0.001$		Reconstruction partial effect, $R_{adj}^2=0.21, p<0.001$	
	RDA1	RDA2	RDA1	RDA2	RDA1	RDA2	RDA1	RDA2
Principal components derived after soil physical properties analysis								
PC1	0.18	0.74	-0.64	0.40	0.52	0.06	-0.60	-0.49
PC2	0.48	0.07	-0.08	-0.37	0.55	0.40	-0.47	0.57
PC3	-0.69	0.03	-0.34	-0.49	-0.54	0.18	0.29	0.15
PC4	-0.36	0.33	-0.39	-0.10	-0.24	0.45	-0.05	0.07
Centroids of categorical predictors								
Year 2011	0.18	0.02	-	-	0.22	-0.01	-0.13	0.03
Year 2021	-0.18	-0.02	-	-	-0.22	0.01	0.13	-0.03
Polygon a	-0.21	0.01	-0.16	-0.24	-	-	0.12	0.03
Polygon b	0.01	0.25	-0.19	0.22	-	-	-0.19	-0.22
Polygon c	0.14	-0.22	0.25	-0.12	-	-	0.04	0.27
Polygon d	0.07	-0.03	0.09	0.14	-	-	0.03	-0.08
Reconstructed	-0.33	0.19	-0.28	-0.11	-0.25	0.21	-	-
Non reconstructed	0.11	-0.06	0.09	0.04	0.08	-0.07	-	-