

Supplementary Figures

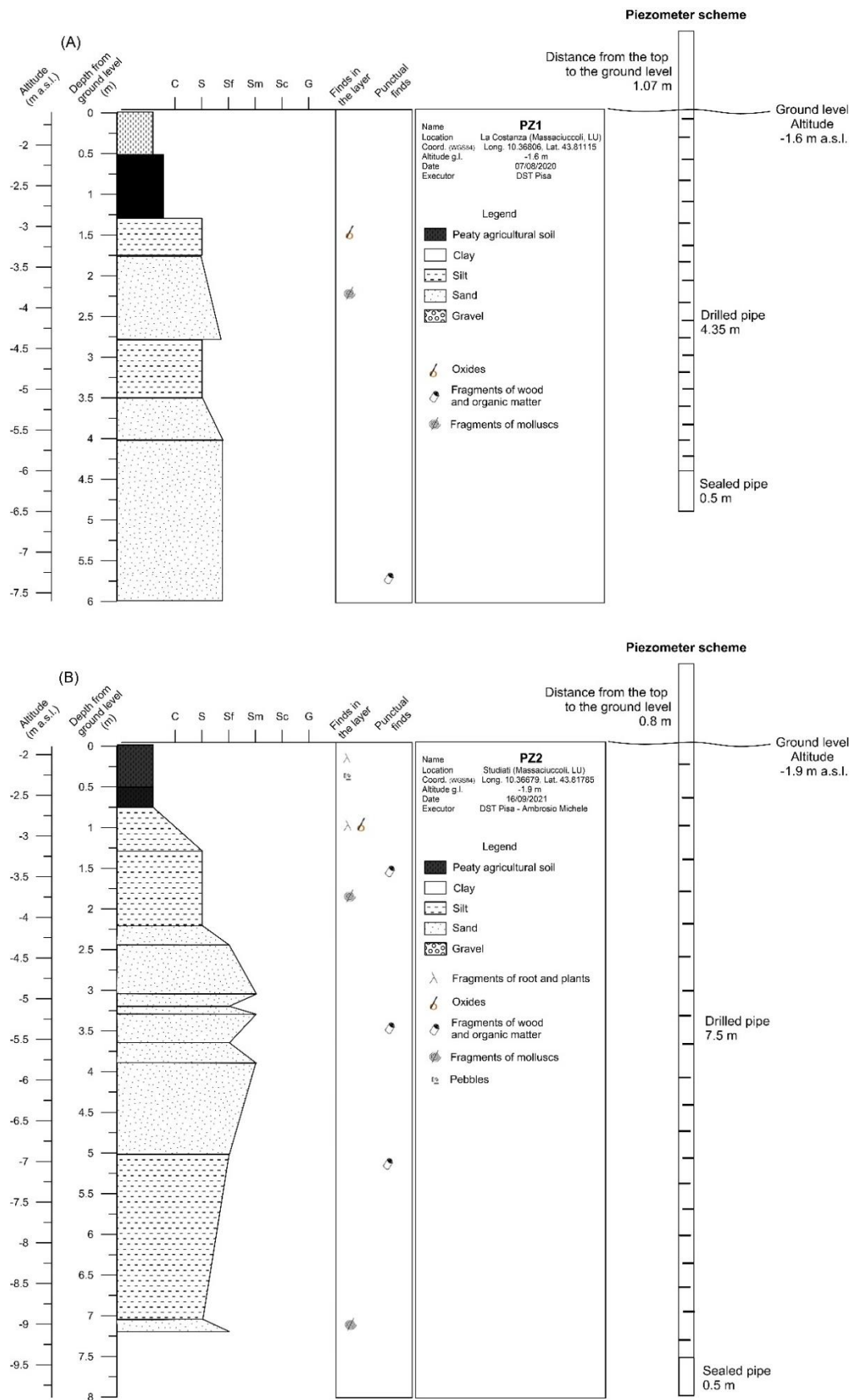


Figure S1. Stratigraphy and scheme of the piezometers installed for the drilling (A) PZ1 and (B) PZ2. In the stratigraphy sections the letters C, S, Sf, Sm, Sc and G mean Clay, Silt, Sand fine, Sand medium, Sand coarse and Gravel, respectively.

		Variation array:																				
Statistics	Center	Xi\Xj		Variance ln(Xi/Xj)																		cir variances
		Ca	Mg	Na	K	Cl	SO4	BCO3	Li	Mn	Co	Ni	Cu	Sr	Ba	U	Fe	As				
Ca	0.1319	Ca		0.2975	0.9067	0.5917	1.0759	0.5778	0.2566	0.6115	1.0310	0.6856	0.1514	0.5209	0.0588	0.3636	2.0459	2.3237	1.6212	0.1473		
Mg	0.0359	Mg	-1.3007		0.2913	0.3408	0.3976	0.6757	0.4730	0.8603	1.3179	0.8332	0.3934	0.3061	0.2499	0.3958	2.0844	2.4056	1.3051	0.1184		
Na	0.1208	Na	-0.0875	1.2132		0.2468	0.0233	1.1723	0.9059	0.9747	2.3891	1.2611	0.9251	0.2743	0.7991	0.9486	2.1710	3.7148	0.7742	0.4213		
K	0.0094	K	-2.6380	-1.3373	-2.5505		0.3156	1.1232	0.5630	0.5950	2.0005	1.0632	0.6130	0.1589	0.5751	0.5496	2.1959	3.2792	0.7670	0.2566		
Cl	0.1748	Cl	0.2815	1.5822	0.3690	2.9195		1.3704	1.0302	1.0471	2.5891	1.3401	1.0610	0.3670	0.9780	1.0903	2.2746	3.8957	0.8078	0.5322		
SO4	0.1665	SO4	0.2333	1.5340	0.3208	2.8713	-0.0482		1.4434	1.1450	1.9009	0.5021	0.3871	0.8605	0.4985	1.3069	1.4663	3.4541	1.6756	0.5261		
BCO3	0.3431	BCO3	0.9559	2.2566	1.0434	3.5939	0.6745	0.7227		0.7111	1.2436	1.3889	0.6368	0.6841	0.3194	0.3296	2.7173	2.5393	1.6891	0.3715		
Li	0.0001	Li	-7.0384	-5.7377	-6.9508	-4.4003	-7.3198	-7.2716	-7.9943		2.0648	0.9176	0.5347	0.7100	0.5968	0.8819	2.5347	3.3573	1.3008	0.4840		
Mn	0.0048	Mn	-3.3226	-2.0219	-3.2351	-0.6846	-3.6040	-3.5559	-4.2785	3.7158		1.4969	1.2103	2.1874	1.1122	0.9024	4.0469	1.1209	3.4789	1.1457		
Co	0.0000	Co	-9.6596	-8.3589	-9.5720	-7.0216	-9.9410	-9.8928	-10.6155	-2.6212	-6.3370		0.2493	0.8912	0.7647	1.1419	1.7145	2.8262	1.6278	0.4758		
Ni	0.0001	Ni	-7.1844	-5.8837	-7.0969	-4.5464	-7.4659	-7.4177	-8.1404	-0.1461	-3.8619	2.4751		0.4734	0.2200	0.5570	1.7444	2.4840	1.4200	0.1438		
Cu	0.0001	Cu	-7.8552	-6.5545	-7.7676	-5.2171	-8.1366	-8.0884	-8.8111	-0.8168	-4.5326	1.8044	-0.6707		0.5227	0.6858	1.8329	3.5468	0.7799	0.2462		
Sr	0.0099	Sr	-2.5860	-1.2853	-2.4984	0.0521	-2.8674	-2.8192	-3.5419	4.4524	0.7366	7.0736	4.5985	5.2692		0.3878	1.9613	2.4855	1.5175	0.1431		
Ba	0.0004	Ba	-5.6847	-4.3840	-5.5972	-3.0467	-5.9662	-5.9180	-6.6406	1.3536	-2.3621	3.9749	1.4997	2.1704	-3.0988		3.2038	1.6280	2.0442	0.3413		
U	0.0000	U	-10.3311	-9.0304	-10.2436	-7.6931	-10.6125	-10.5644	-11.2870	-3.2927	-7.0085	-0.6715	-3.1466	-2.4759	-7.7451	-4.6464			1.1645	1.7606		
Fe	0.0021	Fe	-4.1408	-2.8401	-4.0533	-1.5028	-4.4223	-4.3741	-5.0967	2.8976	-0.8182	5.5188	3.0436	3.7143	-1.5548	1.5439	6.1903			2.4706		
As	0.0000	As	-9.3551	-8.0544	-9.2675	-6.7171	-9.6365	-9.5883	-10.3110	-2.3167	-6.0325	0.3045	-2.1706	-1.4999	-6.7691	-3.6704	0.9760	-5.2143		1.0309		
		Mean ln (Xi/Xj)																		10.6159	Total Variance	

Figure S2. Compositional statistics summary: geometric center (on the left) and variation array (on the right). In the variation array variances below the 5th percentile are highlighted in dark blue, from 5th to 25th percentile in light blue, from 75th to 95th percentile in light red, and above the 95th percentile in dark red.