

Variable	pH	P_ppm	K_ppm	Mg_ppm	Ca_ppm	S_ppm	Mn_ppm	Cu_ppm	B_ppm	Zn_ppm	Mo_ppm	Fe_ppm	Na_ppm	CEC_mec_100g_Co_1	N_2	Cl	Cu_1	Zn_1	Pb_3	Ni_1	As_1	Cd_3	Hg_1	Cr_1	CLAY_%_1	SILT_%_1	SAND_%_1	Organic		
Misture	-0.306	-0.091	-0.186	-0.118	-0.144	-0.057	-0.032	-0.305	-0.365	0.057	0.000	0.110	-0.133	-0.371	-0.056	-0.114	-0.408	-0.237	-0.088	0.364	-0.331	0.010	0.025	0.190	-0.210	0.128	0.084	-0.158	-0.207	
Net_CV	0.307	0.072	0.220	0.116	0.195	0.101	0.005	0.333	0.403	-0.050	-0.018	-0.088	0.168	0.406	0.033	0.150	0.453	0.256	0.129	-0.274	0.340	-0.023	0.015	-0.132	0.251	-0.136	-0.120	0.170	0.247	
As_1	0.356	0.110	0.098	-0.289	-0.388	-0.739	0.527	-0.287	-0.424	0.259	0.198	-0.359	-0.717	-0.352	0.540	-0.735	-0.442	-0.519	-0.531	-0.551	-0.457	-0.337	-0.456	0.011	-0.440	0.025	-0.074	0.197	-0.663	
Volatile_matter_1	0.358	-0.420	0.382	0.406	0.576	0.529	-0.180	0.533	0.652	-0.115	-0.001	-0.197	0.530	0.558	-0.068	0.436	0.764	0.656	0.473	-0.020	0.559	0.124	0.588	-0.161	0.616	0.209	0.105	-0.198	0.528	
GOV_2	0.022	-0.154	0.009	0.031	0.078	0.034	-0.037	0.056	-0.040	0.104	-0.022	-0.001	0.000	-0.053	-0.011	0.005	0.005	0.007	0.135	0.001	-0.040	0.016	0.161	0.202	0.096	0.135	0.017	-0.105	0.002	
C_1	-0.028	-0.111	-0.174	-0.040	-0.337	-0.127	0.328	0.082	-0.460	0.270	-0.025	-0.170	-0.256	0.265	-0.241	-0.211	0.032	0.177	0.115	-0.144	-0.095	0.122	-0.146	-0.170	0.080	0.259	-0.263	-0.318	-0.318	
H_2	-0.286	0.210	-0.154	0.067	0.213	0.357	-0.420	0.066	0.247	-0.155	-0.030	0.424	0.399	0.264	-0.466	0.447	0.106	0.118	0.156	0.288	0.182	0.277	0.053	0.129	0.159	-0.131	-0.137	0.063	0.393	
N_1	-0.002	-0.162	-0.155	-0.090	0.206	0.198	-0.112	-0.038	0.110	0.044	0.192	0.115	0.101	0.108	-0.104	0.109	-0.083	-0.047	-0.060	0.079	-0.123	0.249	0.170	0.013	0.028	-0.112	-0.227	0.088	0.081	
Sulphur_2	0.035	0.175	-0.069	0.069	-0.069	-0.313	-0.069	-0.207	0.138	0.069	0.346	0.000	-0.243	-0.069	0.035	-0.138	-0.247	-0.345	-0.276	-0.069	-0.138	0.345	-0.207	0.069	0.000	0.276	-0.138	0.138	-0.069	
Chlorine_2	-0.270	0.000	-0.182	-0.173	-0.265	-0.154	0.133	-0.158	-0.475	0.136	-0.118	0.083	-0.239	-0.450	0.098	-0.154	-0.278	-0.222	-0.012	0.102	-0.265	-0.123	0.167	-0.179	-0.056	-0.037	0.000	0.000	-0.204	
Ba	-0.128	0.115	-0.173	0.009	-0.827	-0.684	0.618	-0.187	-0.782	0.664	-0.501	-0.136	-0.690	-0.827	-0.393	-0.727	-0.605	-0.327	-0.155	0.118	-0.564	-0.518	-0.118	-0.146	-0.664	-0.255	0.100	0.109	-0.785	
Cr	-0.470	0.385	-0.507	0.041	0.152	0.314	-0.364	0.152	-0.166	0.267	-0.127	0.839	0.384	-0.268	0.424	-0.234	0.065	0.375	0.507	-0.088	0.120	-0.042	0.333	-0.097	-0.383	-0.327	0.134	0.376	0.376	
Co	-0.363	0.417	-0.197	-0.096	0.252	0.044	-0.449	-0.250	-0.137	0.050	0.378	0.746	0.184	0.023	-0.568	0.252	-0.438	-0.343	-0.330	0.243	-0.270	0.256	-0.374	0.470	-0.146	-0.142	-0.471	0.284	0.188	
Cu	-0.753	0.212	-0.373	-0.164	-0.145	0.211	-0.182	-0.255	-0.382	0.200	-0.405	0.718	0.183	-0.382	-0.502	0.145	-0.479	-0.127	0.000	0.655	-0.436	-0.300	-0.018	0.323	-0.455	-0.527	-0.209	0.118	-0.045	
Mn	0.466	0.438	-0.221	-0.386	-0.231	-0.634	0.339	-0.236	-0.264	0.179	0.488	-0.184	-0.584	-0.132	0.329	-0.589	-0.569	-0.542	-0.617	-0.589	-0.386	0.042	-0.536	-0.182	0.100	0.123	-0.355	-0.200	-0.409	0.309
Ni	-0.400	-0.095	-0.009	0.050	0.394	0.420	-0.622	-0.296	0.238	-0.088	0.181	0.481	0.485	0.233	-0.667	0.403	-0.227	-0.009	-0.069	0.503	-0.069	0.261	0.200	0.335	0.000	0.124	0.073	-0.229	0.265	
V	0.466	0.438	-0.221	-0.386	-0.231	-0.634	0.339	-0.236	-0.264	0.179	0.488	-0.184	-0.584	-0.132	0.329	-0.589	-0.569	-0.542	-0.617	-0.589	-0.386	0.042	-0.536	-0.182	0.100	0.123	-0.355	-0.200	-0.409	0.309
Zn	-0.059	0.313	-0.509	0.027	-0.291	-0.289	0.345	0.109	-0.573	-0.873	-0.241	0.245	-0.352	-0.564	0.105	-0.336	-0.437	-0.209	0.009	0.155	-0.536	-0.182	0.100	0.123	-0.355	-0.200	-0.409	0.309	-0.345	
Sb	0.000	0.544	0.354	-0.354	-0.707	-0.707	0.354	-0.354	0.000	-0.354	-0.181	-0.354	-0.707	0.000	0.354	-0.707	-0.354	-0.354	-0.707	-0.707	-0.354	-0.707	-0.725	-0.707	-0.707	0.000	0.707	-0.707	-0.707	-0.707
As	0.289	0.444	0.289	0.000	0.000	-0.577	0.000	0.000	0.289	0.000	0.444	0.000	-0.289	0.577	0.000	-0.289	-0.289	-0.289	-0.577	-0.577	0.000	-0.289	-0.889	-0.289	-0.289	-0.577	-0.289	0.577	-0.289	-0.289
Hg	-0.400	0.205	-0.100	0.100	0.800	0.500	-0.700	-0.300	0.500	-0.100	0.821	0.900	0.600	0.700	-0.300	0.600	-0.300	-0.300	0.500	0.100	0.600	-0.308	0.800	0.300	-0.100	-0.600	0.100	0.600	0.600	0.600
Br	0.192	-0.805	0.191	0.545	0.118	0.165	0.073	0.456	0.009	0.236	-0.355	-0.291	0.192	-0.127	0.078	0.055	0.344	0.573	0.618	0.209	0.300	-0.209	0.656	-0.005	0.327	0.300	0.573	-0.609	0.073	0.073
Pb_2	-0.671	0.207	-0.218	-0.191	-0.318	-0.206	-0.036	-0.360	-0.664	0.273	-0.251	0.600	-0.169	-0.582	-0.260	-0.100	-0.577	-0.418	-0.182	0.373	-0.527	-0.345	-0.387	0.474	-0.455	-0.445	-0.309	0.264	-0.191	
Al2O3_1	-0.583	0.380	-0.308	-0.056	0.289	0.506	-0.672	0.019	0.173	-0.266	-0.012	0.835	0.588	0.251	-0.798	0.690	-0.014	0.055	0.168	0.452	0.182	0.340	-0.157	0.374	0.121	-0.322	-0.243	0.089	0.550	
BaO_1	-0.373	0.094	-0.309	0.186	-0.775	-0.330	0.492	-0.088	-0.580	0.580	-0.775	-0.028	-0.375	-0.710	0.214	-0.436	-0.356	-0.032	0.074	0.487	-0.390	-0.501	0.163	-0.368	-0.557	-0.413	0.107	0.130	0.473	
CaCO3	0.813	0.000	0.173	-0.345	0.091	-0.349	0.391	0.018	0.127	0.000	0.492	-0.591	-0.416	0.173	0.548	-0.482	-0.042	-0.200	-0.336	-0.836	-0.100	-0.009	-0.137	-0.091	-0.655	0.045	-0.055	-0.418	-0.418	
Fe2O3_1	-0.659	-0.131	-0.273	-0.014	-0.027	0.372	-0.328	-0.128	-0.223	0.018	-0.420	0.437	0.247	-0.269	-0.384	0.355	-0.044	0.050	0.465	0.547	-0.055	0.059	0.269	0.447	0.118	0.382	0.005	-0.169	0.228	0.228
K2O_1	-0.858	-0.152	0.018	0.064	-0.082	0.183	-0.455	-0.483	-0.226	-0.273	-0.173	0.482	0.224	-0.245	-0.493	0.282	-0.284	-0.173	-0.027	0.700	-0.164	0.018	-0.059	0.323	-0.100	-0.091	0.064	-0.082	0.182	
MgO_1	-0.292	-0.092	-0.236	0.591	-0.364	-0.018	0.064	0.314	-0.209	0.318	-0.579	0.055	0.064	-0.300	-0.041	0.118	0.195	0.345	0.473	0.518	0.255	-0.018	0.251	0.118	-0.145	0.200	-0.045	0.164	0.164	
MnSO4_1	-0.325	0.509	-0.651	-0.187	-0.506	-0.336	0.328	-0.082	-0.738	0.661	-0.267	0.346	-0.423	-0.688	0.082	-0.319	-0.574	-0.369	-0.100	0.210	-0.565	-0.155	-0.212	0.084	-0.492	-0.355	-0.405	0.369	-0.383	
Na2O_1	-0.606	0.138	-0.150	0.096	0.091	0.464	-0.487	0.142	0.182	-0.064	-0.555	0.692	0.538	0.159	-0.689	0.551	0.152	0.232	0.433	0.506	0.178	-0.096	0.123	0.386	0.077	-0.524	-0.109	0.068	0.442	
P2O5_1	0.142	0.087	0.027	0.209	0.218	0.225	0.118	0.515	0.127	0.436	-0.205	0.082	0.146	0.180	0.082	0.200	0.484	0.300	0.373	-0.036	0.127	-0.045	0.310	-0.023	0.136	-0.182	-0.509	0.382	0.327	
SiO2_1	0.618	0.288	0.456	-0.323	-0.273	0.060	-0.128	0.055	-0.305	0.538	-0.630	0.702	0.188	-0.342	-0.517	0.137	-0.315	0.077	0.191	0.756	0.237	-0.251	0.132	0.110	-0.355	-0.583	-0.187	0.223	0.046	
TiO2_1	-0.109	0.069	-0.158	-0.549	-0.343	-0.338	0.211	-0.196	-0.576	-0.174	0.079	0.005	-0.382	-0.438	0.215	-0.259	-0.365	-0.359	-0.164	-0.333	-0.164	-0.217	-0.677	0.275	-0.275	-0.127	0.148	-0.143	-0.364	
Al	0.416	0.386	0.027	-0.164	0.155	0.014	-0.391	-0.132	-0.127	0.018	0.087	0.755	0.164	0.036	-0.516	0.273	-0.214	-0.300	-0.155	0.082	-0.155	-0.018	-0.497	0.629	-0.073	-0.409	-0.527	0.400	0.245	
Ca	0.662	0.023	0.191	-0.200	-0.155	-0.757	0.445	-0.173	-0.236	0.318	0.433	-0.473	-0.712	-0.155	0.562	-0.736	-0.354	-0.518	-0.500	-0.764	-0.391	-0.127	-0.310	0.150	-0.227	0.127	-0.091	0.127	-0.609	
Mn	-0.334	0.454	-0.597	-0.260	-0.551	-0.386	0.383	-0.154	-0.808	0.615	-0.249	0.273	-0.501	-0.752	0.165	-0.392	-0.611	-0.433	-0.155	0.164	-0.620	-0.210	-0.258	0.094	-0.328	-0.378	0.351	-0.456	-0.456	
Na	-0.648	0.336	-0.109	-0.100	0.100	0.335	-0.555	-0.114	0.164	-0.475	-0.337	0.782	0.420	-0.200	-0.722	0.473	-0.042	-0.073	0.136	0.382	-0.009	-0.027	-0.118	0.533	-0.036	-0.527	-0.318	0.264	0.373	
P	0.155	0.303	-0.027	0.136	0.000	-0.174	0.209	-0.078	-0.736	0.636	-0.137	0.127	-0.178	-0.055	0.132	-0.118	0.116	-0.082	0.055	-0.125	-0.191	-0.109	0.073	0.118	0.055	-0.218	-0.655	0.591	0.036	
Si	-0.507	0.441	-0.573	0.245	-0.464	-0.179	0.045	0.014	-0.436	0.655	-0.601	0.591	-0.059	-0.455	-0.342	-0.082	-0.451	-0.082	0.073											