

Table S2. Accuracy and precision of the XRF technique, as found in the software analysis, used in this work referred to the Nod-A-1 (USGS) Reference Material.

	SiO2	Al2O3	Fe2O3	CaO	TiO2	MnO	K2O	MgO	P2O5
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
CRM values NOD-A-1	3.81	3.87	15.6	15.4	0.53	23.9	0.6	4.76	1.4
NOD-A-1	3.85	3.85	15.097	14.711	0.491	22.633	0.57	4.932	1.166
NOD-A-1	3.84	3.84	15.099	14.69	0.494	22.654	0.575	4.924	1.167
NOD-A-1	3.84	3.84	15.097	14.717	0.495	22.637	0.575	4.936	1.169
NOD-A-1	3.84	3.84	15.01	14.698	0.504	21.375	0.572	4.936	1.169
NOD-A-1	3.82	3.84	13.992	14.701	0.504	22.162	0.575	4.942	1.173
NOD-A-1	3.73	3.74	15.101	14.572	0.472	21.64	0.563	4.666	1.142
Mean Concentration	3.821	3.827	14.8993	14.6815	0.4933	22.1834	0.5716	4.8893	1.1643
Min. Concentration	3.73	3.74	13.992	14.572	0.472	21.375	0.563	4.666	1.142
Max. Concentration	3.85	3.85	15.101	14.717	0.504	22.654	0.575	4.942	1.173
RMS Concentration	0.046	0.042	0.4461	0.0543	0.0118	0.5621	0.0046	0.1095	0.0114
RMS rel. Concentration (%)	1.2	1.1	2.994	0.37	2.388	2.534	0.808	2.239	0.978