

APPENDIX 1

Geochemistry of mafic and four felsic rocks in the Rzeszotary 2 borehole

Sample		A1	A3	A2	RZ14	RZ7	RZ16	RZ17	RZ18
SiO ₂	%	46.76	49.76	51.70	63.25	72.71	75.99	76.60	74.27
TiO ₂	%	0.579	0.634	0.911	0.773	0.079	0.140	0.249	0.065
Al ₂ O ₃	%	16.03	14.43	14.54	15.28	15.25	13.65	11.69	13.38
Fe ₂ O ₃	%	9.24	11.31	14.86	6.45	0.79	0.78	1.66	0.47
MnO	%	0.133	0.167	0.214	0.090	0.009	0.008	0.020	0.003
MgO	%	8.84	8.82	5.12	3.23	0.61	0.48	0.62	0.13
CaO	%	12.43	9.76	7.93	0.53	3.63	1.27	1.84	0.32
Na ₂ O	%	2.57	2.35	3.13	1.29	3.92	5.80	4.81	2.03
K ₂ O	%	0.55	0.88	0.63	4.52	1.60	0.88	1.09	8.17
P ₂ O ₅	%	0.12	0.08	0.14	0.14	0.02	0.04	0.04	0.03
LOI	%	2.59	1.92	1.20	4.76	1.50	0.82	1.59	0.59
Total	%	99.84	100.12	100.37	100.31	100.11	99.86	100.20	99.46
Ba	ppm	51	101	71	451	520	179	415	3 590
Co	ppm	71	62	70	43	87	102	125	123
Cs	ppm	0.2	0.2	0.8	11.2	1.3	0.2	0.2	0.4
Ga	ppm	14	14	17	19	16	13	14	10
Hf	ppm	1.3	1.2	2.0	5.3	3.0	10.1	6.5	0.3
Nb	ppm	1.8	2.9	6.0	12.0	1.2	1.4	3.0	2.2
Rb	ppm	13	25	14	124	95	23	33	183
Sr	ppm	174	84	82	60	247	512	365	253
Sr	ppm	172	80	80	57	232	477	355	227
Ta	ppm	0.11	0.12	0.35	0.92	0.06	0.09	0.15	0.14
Th	ppm	0.07	0.28	0.25	9.10	4.77	0.62	21.4	5.71
U	ppm	0.03	0.40	0.22	2.40	0.43	1.24	1.47	0.11
Zr	ppm	45	42	76	209	127	400	254	9
Y	ppm	14.0	20.0	30.5	25.6	1.7	2.1	3.6	0.7
Pb	ppm	7	10	bd	8	9	14	6	45
Tl	ppm	0.12	0.20	0.09	0.75	0.45	0.17	0.19	1.31
Sc	ppm	27	42	49	17	bd	1	3	bd
La	ppm	3.14	3.15	9.52	37.0	21.3	16.7	59.4	13.6
Ce	ppm	8.73	8.97	24.7	86.9	34.2	24.0	106	23.1
Pr	ppm	1.09	1.16	2.83	8.05	2.61	1.73	8.60	1.86
Nd	ppm	5.33	5.67	12.0	29.7	7.67	5.01	27.0	5.70
Sm	ppm	1.52	1.87	3.01	5.65	0.94	0.62	3.04	0.72
Eu	ppm	0.747	0.775	0.991	1.39	1.29	1.63	1.28	0.768
Gd	ppm	2.30	3.00	4.23	5.77	0.61	0.47	1.76	0.41
Tb	ppm	0.40	0.55	0.77	0.84	0.08	0.05	0.15	0.04
Dy	ppm	2.42	3.32	4.78	4.69	0.38	0.29	0.66	0.15
Ho	ppm	0.53	0.74	1.10	0.98	0.06	0.07	0.11	0.03
Er	ppm	1.46	2.09	3.20	2.83	0.16	0.25	0.37	0.06

Tm	ppm	0.222	0.323	0.522	0.434	bd	0.048	0.057	bd
Yb	ppm	1.34	1.95	3.12	2.74	0.11	0.38	0.38	0.04
Lu	ppm	0.219	0.307	0.519	0.432	0.019	0.086	0.070	0.006
Be	ppm	bd	bd	1	3	1	1	1	bd
V	ppm	159	209	273	123	10	14	21	bd
Cr	ppm	229	359	46	94	28	bd	85	bd
Ni	ppm	254	118	70	56	125	bd	130	bd
Cu	ppm	63	21	12	bd	bd	bd	22	bd

Major elements in wt.%, trace and RE elements in ppm, bd = below detection limit; other explanations in figures and in the text