

Appendix 1 Table 4

Table 4. Representative microprobe data on amphiboles in sample VMEC 11-2.

Weight % Oxides

Sample	VMEC11-2C1A1	VMEC11-2C1A2	VMEC11-2C2A1	VMEC11-2C2A2
SiO ₂	43.47	43.88	43.91	43.70
TiO ₂	0.87	0.88	0.99	0.68
Al ₂ O ₃	10.76	10.88	11.71	11.25
FeO	19.11	19.17	18.65	19.86
MnO	0.84	0.76	0.69	0.80
MgO	9.25	8.68	8.90	8.50
CaO	11.69	11.74	11.93	11.79
Na ₂ O	1.26	1.13	1.20	1.28
K ₂ O	1.32	1.27	1.38	1.31
Total	98.56	98.40	93.35	99.17

Cations per 23 oxygens

Si	6.47	6.56	6.49	6.50
Ti	0.10	0.10	0.11	0.08
Al	1.89	1.92	2.04	1.97
Fe ⁺³	0.63	0.44	0.37	0.51
Fe ⁺²	1.76	1.96	1.94	1.96
Mn	0.11	0.10	0.09	0.10
Mg	2.05	1.93	1.96	1.88
Ca	1.87	1.88	1.89	1.88
Na	0.36	0.33	0.35	0.37
K	0.25	0.24	0.26	0.25
H	2.00	2.00	2.00	2.00
Total	17.48	17.45	17.50	17.50

VMEC11-2C3A1 VMEC11-2C3-A2 VMEC11-2C3-A3

42.12	42.28	43.60
0.82	0.70	0.81
12.84	12.12	11.02
20.21	19.99	20.13
0.73	0.73	0.76
7.84	7.94	8.67
11.95	11.93	11.84
1.26	1.19	1.31
1.64	1.55	1.33
99.40	98.42	99.46

6.29	6.37	6.47
0.09	0.08	0.09
2.26	2.15	1.93
0.48	0.45	0.56
2.04	2.07	1.94
0.09	0.09	0.10
1.74	1.78	1.92
1.91	1.93	1.88
0.37	0.35	0.38
0.31	0.30	0.25
2.00	2.00	2.00
17.59	17.57	17.51