

Appendix 1 Table 8

Table 8. Representative microprobe data for samples VMLK 11-22

**Weight % Oxides**

Sample 11-22 C2 A1P1   11-22 C2 A1P2   11-22 C2 A2P1   11-22 C2 A2P2

SiO2	41.19	40.70	40.52	41.19
TiO2	0.94	1.03	1.00	0.97
Al2O3	12.27	11.86	12.23	12.35
FeO	21.73	21.89	22.60	21.82
MnO	0.68	0.67	0.68	0.63
MgO	7.06	8.08	6.91	6.96
CaO	11.26	11.50	11.42	11.61
Na2O	1.51	1.65	1.59	1.45
K2O	1.57	1.50	1.57	1.56
Total	98.50	99.17	99.27	98.93

**Cations per 23 oxygens**

Si	6.26	6.13	6.16	6.25
Ti	0.11	0.12	0.11	0.11
Al	2.20	2.10	2.19	2.21
Fe+3	0.67	0.93	0.75	0.56
Fe+2	2.09	1.82	2.12	2.21
Mn	0.09	0.09	0.09	0.08
Mg	1.60	1.81	1.57	1.58
Ca	1.83	1.85	1.86	1.89
Na	0.45	0.48	0.47	0.43
K	0.30	0.29	0.31	0.30
H	2.00	2.00	2.00	2.00
Total	17.58	17.62	17.64	17.62

11-22 C2 A3P1 11-22 C2 A3P2 11-22 C2 A3P3 11-22 C4 A1P1 11-22 C4 A1P2

40.33	40.45	40.22	40.83	40.59
0.87	0.95	0.91	0.81	0.81
12.96	12.67	13.80	13.00	13.42
21.78	22.04	22.32	22.05	22.12
0.62	0.67	0.63	0.67	0.63
6.54	6.93	6.24	6.71	6.54
11.51	11.31	11.37	11.68	11.70
1.42	1.51	1.36	1.57	1.58
1.63	1.49	1.72	1.62	1.63
98.02	98.42	98.83	99.27	99.50

6.19	6.16	6.10	6.19	6.15
0.10	0.11	0.10	0.09	0.09
2.34	2.27	2.47	2.32	2.40
0.56	0.78	0.69	0.55	0.54
2.24	2.03	2.14	2.24	2.26
0.08	0.09	0.08	0.09	0.08
1.50	1.57	1.41	1.52	1.48
1.89	1.84	1.85	1.90	1.90
0.42	0.45	0.40	0.46	0.47
0.32	0.29	0.33	0.31	0.32
2.00	2.00	2.00	2.00	2.00
17.63	17.58	17.58	17.67	17.68