APPENDIX 2

EPMA analyses of clinopyroxene of the mafic plutonic rocks and calculated cation numbers

Sample no.	Olivine gabbro (HNT1)				Gabbro (HGT2)				
SiO_2	52.51	51.67	51.84	52.43	53.18	51.54	53.40	52.55	50.90
TiO_2	0.46	0.45	0.42	0.36	0.52	0.31	0.41	0.35	0.40
Al_2O_3	2.78	3.54	3.36	2.94	2.58	2.07	2.19	1.69	3.30
Cr_2O_3	0.80	1.01	0.96	0.96	0.02	0.00	0.01	0.02	0.02
FeO	5.38	5.17	6.29	4.84	6.84	9.38	9.34	9.91	11.57
MnO	0.73	0.64	0.67	0.51	0.26	0.08	0.39	0.12	0.51
MgO	17.77	17.78	18.96	16.73	17.02	14.35	15.21	14.10	13.95
CaO	20.12	20.52	18.21	21.83	20.17	20.62	19.43	20.98	17.87
Na_2O	0.23	0.33	0.28	0.19	0.30	0.31	0.46	0.33	0.61
K_2O	0.02	0.01	0.00	0.00	0.01	0.01	0.03	0.01	0.07
Total	100.80	101.12	100.99	100.79	100.90	98.67	100.87	100.06	99.20
Number of cations on the basis of 6 oxygens									
Si	1.902	1.862	1.868	1.905	1.931	1.941	1.962	1.958	1.913
Ti	0.013	0.012	0.011	0.010	0.014	0.009	0.011	0.010	0.011
Al	0.119	0.150	0.143	0.126	0.110	0.092	0.095	0.074	0.146
Cr	0.023	0.029	0.027	0.028	0.001	0.000	0.000	0.001	0.001
Fe	0.163	0.156	0.190	0.147	0.208	0.295	0.287	0.309	0.364
Mn	0.022	0.020	0.020	0.016	0.008	0.003	0.012	0.004	0.016
Mg	0.960	0.955	1.018	0.906	0.921	0.805	0.833	0.783	0.781
Ca	0.781	0.792	0.703	0.850	0.785	0.832	0.765	0.837	0.720
Na	0.016	0.023	0.020	0.013	0.021	0.023	0.033	0.024	0.044
K	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003
Total	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000