APPENDIX 1

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

Sample no.	Olivine gabbro (HNT1)						
SiO_2	38.99	39.59	38.54	37.90	38.24	38.03	38.20
TiO_2	0.00	0.02	0.01	0.00	0.002	0.00	0.00
Al_2O_3	0.00	0.00	0.01	0.00	0.01	0.02	0.01
Cr_2O_3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FeO	25.15	23.40	25.99	25.50	26.54	25.82	25.52
MnO	0.51	0.76	0.25	0.25	0.88	0.89	0.64
MgO	36.40	36.60	36.45	36.45	36.67	36.73	36.88
CaO	0.04	0.04	0.01	0.01	0.03	0.03	0.03
Na_2O	0.02	0.04	0.05	0.05	0.00	0.01	0.00
K_2O	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Total	101.11	100.46	101.31	100.16	100.39	101.53	101.28
Number of cations on the basis of 4 oxygens							
Si	1.019	1.037	1.006	0.998	0.990	0.990	0.996
Ti	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Al	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cr	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fe	0.586	0.585	0.577	0.556	0.555	0.543	0.548
Mn	0.011	0.017	0.006	0.006	0.019	0.020	0.014
Mg	1.418	1.429	1.418	1.431	1.415	1.426	1.433
Ca	0.001	0.001	0.000	0.000	0.001	0.001	0.001
Na	0.001	0.002	0.003	0.003	0.000	0.001	0.000
K	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	3.000	3.000	3.000	3.000	3.000	3.000	3.000