

Mineral	Plagioclase									
Unit	LUI	LUI	UII	II	UII	UII	UU	IV	IV	IV
Sample	NPD 1	NPD 1	NPD 6	NPD 9	NPD 6	NPD 6	NPD 4	NPD 15	NPD 13	NPD 15
Rock type	WP	WP	WP	WP	GP	GP	BS	BS	GS	GS
wt. %										
SiO ₂	50.33	58.76	57.099	57.45	59.33	52.93	54.61	57.92	49.56	53.65
Al ₂ O ₃	32.61	27.14	27.515	27.44	27.67	30.56	29.77	27.59	31.43	31.60
FeO	0.45	0.24	0.215	0.20	0.31	0.46	0.40	0.35	0.45	0.33
MgO	0.01	0.03	0.027	0.01	0.05	0.07	0.03	0.03	0.02	0.03
CaO	15.59	9.46	10.307	9.84	9.70	14.14	13.16	10.70	15.31	14.25
Na ₂ O	2.90	6.45	6.508	6.11	6.34	3.95	4.42	5.74	2.77	4.04
K ₂ O	0.06	0.24	0.218	0.23	0.24	0.06	0.14	0.31	0.08	0.13
Total	101.99	102.41	101.92	101.34	103.73	102.30	102.55	102.73	99.67	104.15
O Basis	8	8	8	8	8	8	8	8	8	8
Si ⁴⁺	2.258	2.577	2.329	2.550	2.570	2.360	2.418	2.542	2.275	2.348
Al ³⁺	1.724	1.403	1.647	1.435	1.412	1.606	1.553	1.427	1.700	1.630
Fe ²⁺	0.017	0.009	0.023	0.007	0.011	0.017	0.015	0.013	0.017	0.012
Mg ²⁺	0.001	0.002	0.002	0.001	0.003	0.005	0.002	0.002	0.001	0.002
Ca ²⁺	0.749	0.444	0.693	0.467	0.450	0.675	0.624	0.503	0.753	0.668
Na ⁺	0.252	0.548	0.299	0.525	0.532	0.341	0.379	0.488	0.247	0.342
K ⁺	0.003	0.013	0.005	0.013	0.013	0.004	0.008	0.017	0.005	0.007
Total	5.006	4.999	5.037	5.001	4.995	5.012	4.999	4.996	4.999	5.013
An (mol %)*	74.6	44.2	46.1	46.5	45.2	66.2	61.7	49.9	75.0	65.7
Mineral	Orthopyroxene					Amphibole				
Unit	LUI	UII	UII	UII	IV	IV	LUI	UII	UII	IV
Sample	NPD 1	NPD 4	NPD 6	NPD 4	NPD 15	NPD 13	NPD 1	NPD 6	NPD 4	NPD 13
Rock type	WP	WP	GP	BS	BS	GS	WP	GP	BS	GS
wt. %										
SiO ₂	55.02	54.515	55.42	54.25	54.43	55.34	47.63	47.32	45.94	42.85
TiO ₂	0.14	0.034	0.10	0.23	0.06	0.16	1.67	1.87	2.02	2.24
Al ₂ O ₃	0.78	1.026	0.70	1.63	0.78	1.64	8.28	9.24	9.91	12.45
FeO	20.86	19.733	19.59	20.58	19.41	15.57	11.69	12.72	12.94	12.56
MnO	1.81	1.628	1.42	1.25	1.70	0.45	0.33	0.49	0.61	0.34
MgO	23.76	23.158	25.02	23.51	24.11	27.52	14.97	14.75	13.40	13.93
CaO	0.71	0.743	0.55	1.12	0.84	1.27	11.20	11.19	10.87	10.76
Na ₂ O	0.01	0.036	0.00	0.04	0.00	0.00	1.77	2.01	2.20	2.36
Total	103.16	100.97	102.81	102.62	101.40	102.01	97.84	99.91	98.31	97.67
O Basis	6	6	6	6	6	6	23	23	23	23
Si ⁴⁺	1.979	0.996	1.983	1.958	1.982	1.958	6.904	6.761	6.696	6.295
Ti ⁴⁺	0.004	0.000	0.003	0.006	0.002	0.004	0.182	0.201	0.222	0.248
Al ³⁺	0.033	0.022	0.029	0.069	0.033	0.068	1.414	1.556	1.702	2.155
Fe ²⁺	0.627	0.301	0.586	0.621	0.591	0.461	1.417	1.520	1.578	1.543
Mn ²⁺	0.055	0.025	0.043	0.038	0.052	0.014	0.041	0.059	0.075	0.042
Mg ²⁺	1.273	0.630	1.334	1.264	1.307	1.451	3.234	3.143	2.912	3.050
Ca ²⁺	0.027	0.015	0.021	0.043	0.033	0.048	1.740	1.712	1.698	1.694
Na ⁺	0.001	0.001	0.000	0.002	0.000	0.000	0.497	0.555	0.621	0.671
Total	3.999	3.986	3.999	4.002	4.000	4.004	15.482	15.566	15.581	15.733
Mg ^{***}	67.0	67.6	69.5	67.1	68.9	75.9	75.0	74.1	69.9	76.8