

APPENDIX 1

Results of the electron microprobe analyses of feldspars

Analysis	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	SrO	BaO	Na <sub>2</sub> O	K <sub>2</sub> O	total	Si	Al	Fe	Mg	Ca	Sr	Ba	Na	K	Total	An	Ab	Kfs	
Felsic granulite, GS55-4											Cations calculated on the basis of 8 oxygen atoms													
Feld1-1	65.07	18.66	0.03	-	0.06	0.04	0.90	1.36	13.79	99.91	2.997	1.013	0.001	0.000	0.003	0.001	0.016	0.122	0.810	4.963	0.3	13.0	86.7	
Feld1-3	64.93	18.35	0.06	-	0.08	0.08	0.94	1.46	13.61	99.52	3.003	1.000	0.002	0.000	0.004	0.002	0.017	0.131	0.803	4.964	0.4	14.0	85.6	
Feld2-1	65.31	18.76	0.06	-	0.08	0.04	0.84	1.69	11.63	98.40	3.014	1.021	0.002	0.000	0.004	0.001	0.015	0.151	0.685	4.893	0.4	18.0	81.5	
Feld2-4	65.26	18.73	0.06	0.03	0.08	-	0.97	2.08	11.28	98.49	3.011	1.019	0.002	0.002	0.004	0.000	0.017	0.186	0.664	4.905	0.5	21.8	77.8	
																					Min.	0.3	13.0	86.7
																					Max.	0.5	21.8	86.7
Feld3-1	66.53	20.93	0.16	-	2.03	-	0.03	10.09	0.18	99.94	2.920	1.083	0.006	0.000	0.095	0.000	0.001	0.859	0.010	4.973	9.9	89.1	1.1	
Feld3-2	66.78	20.76	0.13	0.02	2.07	0.01	0.03	10.27	0.24	100.30	2.924	1.071	0.005	0.001	0.097	0.000	0.001	0.872	0.014	4.983	9.9	88.7	1.4	
Feld3-3	67.00	20.83	0.10	-	2.13	0.06	-	10.08	0.23	100.44	2.927	1.072	0.004	0.000	0.100	0.001	0.000	0.854	0.013	4.970	10.3	88.3	1.3	
Feld3-4	66.50	20.96	0.06	-	2.17	0.06	-	10.04	0.15	99.93	2.919	1.084	0.002	0.000	0.102	0.002	0.000	0.854	0.008	4.970	10.6	88.6	0.9	
Feld3-5	66.82	20.91	0.15	-	2.13	-	-	10.01	0.19	100.20	2.924	1.078	0.005	0.000	0.100	0.000	0.000	0.849	0.011	4.967	10.4	88.5	1.1	
Feld3-6	66.95	20.82	0.10	0.01	2.10	0.05	-	10.19	0.25	100.47	2.925	1.072	0.004	0.001	0.098	0.001	0.000	0.863	0.014	4.978	10.1	88.5	1.4	
Feld3-7	66.84	20.92	0.10	0.01	2.03	0.03	-	9.95	0.26	100.13	2.926	1.079	0.004	0.000	0.095	0.001	0.000	0.844	0.014	4.964	10.0	88.5	1.5	
Feld3-8	66.87	20.87	0.12	0.01	2.05	0.03	-	10.11	0.19	100.24	2.925	1.076	0.004	0.000	0.096	0.001	0.000	0.858	0.011	4.971	10.0	88.9	1.1	
Feld4-1	66.50	20.82	0.18	-	2.14	-	-	10.00	0.21	99.84	2.922	1.078	0.007	0.000	0.101	0.000	0.000	0.852	0.012	4.971	10.4	88.3	1.2	
Feld4-2	66.35	20.95	0.16	0.01	2.26	0.02	-	9.97	0.23	99.95	2.915	1.085	0.006	0.000	0.106	0.000	0.000	0.849	0.013	4.974	11.0	87.7	1.3	
Feld4-3	66.68	20.69	0.20	-	2.14	0.03	-	9.99	0.30	100.05	2.926	1.070	0.007	0.000	0.101	0.001	0.000	0.850	0.017	4.972	10.4	87.9	1.7	
Feld4-4	66.59	21.09	0.18	-	2.20	-	-	9.98	0.25	100.29	2.914	1.088	0.007	0.000	0.103	0.000	0.000	0.847	0.014	4.972	10.7	87.8	1.5	
Feld4-5	66.36	20.97	0.21	-	2.20	0.03	0.02	10.01	0.19	99.99	2.914	1.085	0.008	0.000	0.104	0.001	0.000	0.852	0.011	4.975	10.7	88.2	1.1	
Feld4-6	67.02	21.02	0.12	-	2.05	-	0.03	10.35	0.19	100.76	2.919	1.079	0.004	0.000	0.095	0.000	0.000	0.874	0.010	4.983	9.7	89.2	1.0	
Feld4-7	66.88	20.72	0.07	-	2.06	0.04	0.00	10.18	0.20	100.15	2.929	1.070	0.003	0.000	0.097	0.001	0.000	0.864	0.011	4.974	9.9	88.9	1.1	
																					Min.	9.7	87.7	0.9
																					Max.	11.0	89.2	1.7
Intermediate granulite, Gr-pb																								
Feld1-1	65.51	21.00	0.05	-	2.64	0.04	0.03	9.76	0.31	99.35	2.900	1.096	0.002	0.000	0.125	0.001	0.001	0.838	0.017	4.980	12.8	85.5	1.8	
Feld1-2	65.76	21.33	0.06	0.02	2.56	0.04	0.02	9.54	0.35	99.66	2.898	1.108	0.002	0.001	0.121	0.001	0.000	0.815	0.020	4.966	12.6	85.3	2.0	
Feld4-1	65.68	21.41	0.10	-	2.69	-	-	9.53	0.48	99.90	2.891	1.111	0.004	0.000	0.127	0.000	0.000	0.814	0.027	4.974	13.1	84.1	2.8	
Feld4-2	65.85	21.53	0.11	-	2.68	0.04	0.02	9.65	0.50	100.39	2.887	1.113	0.004	0.000	0.126	0.001	0.000	0.820	0.028	4.980	12.9	84.2	2.9	
Feld5-1	66.72	21.60	0.07	0.01	2.60	-	0.02	9.60	0.49	101.12	2.899	1.106	0.002	0.000	0.121	0.000	0.000	0.809	0.027	4.966	12.7	84.5	2.8	
Feld5-2	66.06	21.48	0.08	-	2.66	0.06	-	9.87	0.46	100.66	2.890	1.107	0.003	0.000	0.124	0.002	0.000	0.837	0.026	4.988	12.6	84.8	2.6	
Feld5-3	66.54	21.29	0.10	-	2.71	-	0.01	9.83	0.41	100.90	2.901	1.094	0.004	0.000	0.127	0.000	0.000	0.831	0.023	4.979	12.9	84.7	2.3	
Feld6-1	66.69	21.39	0.07	-	2.55	0.03	0.03	9.80	0.43	100.99	2.903	1.098	0.002	0.000	0.119	0.001	0.001	0.827	0.024	4.974	12.3	85.3	2.5	
Feld6-2	66.25	21.38	0.05	-	2.58	0.01	0.03	9.77	0.42	100.47	2.899	1.102	0.002	0.000	0.121	0.000	0.000	0.829	0.023	4.976	12.4	85.2	2.4	
Feld6-3	66.31	21.71	0.02	0.01	2.65	0.02	-	9.83	0.41	100.96	2.888	1.114	0.001	0.000	0.124	0.001	0.000	0.830	0.023	4.981	12.7	85.0	2.4	
Feld6-4	66.56	21.35	0.04	-	2.58	0.03	-	9.82	0.44	100.83	2.902	1.097	0.001	0.000	0.121	0.001	0.000	0.830	0.024	4.976	12.4	85.1	2.5	
Feld7-3	65.98	21.68	0.08	-	2.71	0.07	0.01	9.71	0.40	100.62	2.885	1.117	0.003	0.000	0.127	0.002	0.000	0.823	0.022	4.979	13.0	84.7	2.3	
Feld8-1	65.98	21.53	0.07	-	2.60	-	0.03	9.91	0.51	100.62	2.888	1.110	0.003	0.000	0.122	0.000	0.001	0.840	0.028	4.991	12.3	84.9	2.8	
Feld8-2	66.71	21.54	0.11	-	2.46	-	0.02	9.71	0.51	101.06	2.901	1.104	0.004	0.000	0.115	0.000	0.000	0.819	0.028	4.971	11.9	85.1	2.9	
Feld8-3	66.49	21.61	0.06	0.01	2.68	0.06	-	9.78	0.44	101.11	2.892	1.108	0.002	0.001	0.125	0.001	0.000	0.825	0.024	4.978	12.8	84.7	2.5	
Feld8-4	66.81	21.73	0.09	0.02	2.73	0.04	-	9.86	0.35	101.62	2.891	1.108	0.003	0.001	0.126	0.001	0.000	0.828	0.019	4.978	13.0	85.0	2.0	
Feld8-5	66.22	21.60	0.12	-	2.68	0.03	-	9.72	0.42	100.79	2.890	1.111	0.004	0.000	0.125	0.001	0.000	0.823	0.023	4.977	12.9	84.7	2.4	
Feld8-6	65.98	21.23	0.09	-	2.61	-	-	9.78	0.48	100.16	2.898	1.099	0.003	0.000	0.123	0.000	0.000	0.833	0.027	4.982	12.5	84.8	2.8	
Feld1-1	65.51	21.00	0.05	-	2.64	0.04	0.03	9.76	0.31	99.35	2.900	1.096	0.002	0.000	0.125	0.001	0.001	0.838	0.017	4.980	12.8	85.5	1.8	
Feld1-2	65.76	21.33	0.06	0.02	2.56	0.04	0.02	9.54	0.35	99.66	2.898	1.108	0.002	0.001	0.121	0.001	0.000	0.815	0.020	4.966	12.6	85.3	2.0	
																					Min.	11.9	84.1	1.8
																					Max.	13.1	85.5	2.9
Feld2-1	64.77	18.35	0.08	0.01	0.04	-	0.65	0.64	14.87	99.40	3.005	1.003	0.003	0.000	0.002	0.000	0.012	0.058	0.880	4.962	0.2	6.1	93.7	
Feld2-2	64.90	18.53	0.13	0.01	0.06	0.02	0.86	0.76	14.58	99.85	2.999	1.009	0.005	0.000	0.003	0.001	0.016	0.068	0.860	4.960	0.3	7.3	92.4	
Feld3-1	64.30	18.88	0.10	-	0.10	0.09	1.06	0.71	14.60	99.83	2.980	1.031	0.004	0.000	0.005	0.002	0.019	0.064	0.863	4.968	0.5	6.8	92.6	
Feld3-2	64.39	18.56	0.04	-	0.10	0.04	0.86	0.72	14.48	99.18	2.995	1.017	0.002	0.000	0.005	0.001	0.016	0.065	0.859	4.959	0.5	7.0	92.5	
Feld3-3	64.88	18.66	0.07	-	0.05	0.08	0.94	0.61	14.61	99.89	2.997	1.016	0.003	0.000	0.002	0.002	0.017	0.054	0.861	4.953	0.2	5.9	93.8	
Feld7-1	65.02	18.75	0.04	-	0.13	0.10	0.87	0.80	14.55	100.25	2.993	1.017	0.002	0.000	0.006	0.003	0.016	0.071	0.854	4.961	0.7	7.6	91.7	
Feld7-2	64.63	18.78	0.04	-	0.14	0.06	1.10	0.83	14.43	100.01	2.987	1.023	0.001	0.000	0.007	0.002	0.020	0.075	0.850	4.964	0.7	8.0	91.3	
																					Min.	0.2	5.9	91.3
																					Max.	0.7	8.0	93.8
Mafic granulite, GS55-1																								
Feld1-1	65.55	21.12	0.09	0.01	2.75	-	-	9.65	0.40	99.56	2.896	1.100	0.003	0.001	0.130	0.000	0.000	0.826	0.023	4.979	13.3	84.4	2.3	
Feld1-2	65.74	21.93	0.19	0.02	2.52	-	-	9.56	0.34	100.30	2.880	1.132	0.007	0.001	0.118	0.000	0.000	0.812	0.019	4.970	12.5	85.6	2.0	
Feld1-3	66.51	21.41	0.15	0.02	2.53	0.03	0.04	10.00	0.26	100.94	2.898	1.099	0.006	0.001	0.118	0.001	0.001	0.845	0.014	4.982	12.1	86.5	1.5	
Feld1-4	66.22	21.54	0.21	-	2.57	-	-	9.82	0.37	100.73	2.892	1.109	0.008	0.000	0.120	0.000	0.000	0.831	0.021	4.980	12.			