

APPENDIX 1

Representative whole-rock geochemical analyses (ICP-MS) of major elements from the Chah-Bazargan mafic dykes

No. Sample		AF-295	AF-298	AF-304	AF-308	AF-309	AF-311	AF-314	AF-317	Average
	Uncertainty									
Rock type	ppm	TB	TB	TB	BTA	TB	TB	TB	BTA	no. 8
SiO ₂	0.01	50.46	51.25	49.37	52.04	49.68	48.71	49.23	51.07	50.23
Al ₂ O ₃	0.01	15.64	15.85	15.02	14.85	14.79	14.09	15.02	15.35	15.08
Fe ₂ O ₃	0.04	9.01	8.25	9.25	7.85	9.45	10.05	9.24	8.65	8.97
MgO	0.01	6.25	5.86	7.23	5.97	6.85	8.55	6.75	5.31	6.60
CaO	0.01	7.85	8.12	7.74	7.35	7.46	7.15	6.87	7.12	7.46
Na ₂ O	0.01	3.17	3.05	3.22	3.84	3.06	2.85	3.07	3.69	3.24
K ₂ O	0.01	2.11	2.25	2.75	2.08	2.61	2.48	2.88	2.54	2.46
TiO ₂	0.01	0.94	1.11	1.21	1.02	1.16	1.54	1.75	1.97	1.34
P ₂ O ₅	0.01	0.29	0.21	0.19	0.32	0.38	0.45	0.53	0.61	0.37
MnO	0.01	0.18	0.21	0.19	0.23	0.16	0.14	0.26	0.13	0.19
LOI		3.8	3.5	3.6	4.1	3.7	3.8	4.2	3.4	3.76
Total	0.01	99.7	99.66	99.77	99.65	99.30	99.81	99.80	99.84	99.69
X _{Mg}		0.44	0.44	0.46	0.46	0.45	0.49	0.45	0.41	

All samples were analysed with an ICP-MS instrument at the ALS Chemex Company of Canada; TB – trachy basalt; BTA – basaltic trachy-andesite