TABLE A. WHOLE-ROCK MAJOR AND TRACE ELEMENT COMPOSITIONS OF SAMPLES FROM THE CARUARU-ARCOVERDE BATHOLITH

Sample number	SiO_2 (wt%)	TiO_2 (wt%)	Al_2O_3 (wt%)	Fe_2O_3 (wt%)	MnO (wt%)	MgO (wt%)	CaO (wt%)	Na_2O (wt%)	K_2O (wt%)	P_2O_5 (wt%)	LOI (wt%)	Total (wt%)
Granitoids												
TQ264	61.20	0.91	15.15	6.34	0.09	3.35	3.81	3.23	4.97	0.36	0.01	99.42
TQ131	61.43	0.89	14.92	6.40	0.09	3.61	3.93	3.41	4.30	0.39	0.20	99.57
TQ229	61.67	0.77	16.35	6.14	0.08	2.51	3.77	3.73	4.45	0.31	0.31	99.78
TQ228	62.30	0.96	15.02	6.05	0.09	2.99	3.84	3.57	4.21	0.39	0.05	99.47
BEZ24	63.72	0.78	16.12	4.69	0.09	0.94	2.41	4.00	5.71	0.29	0.51	99.24
SBJ	64.35	0.65	15.61	4.04	0.08	0.80	2.17	3.86	5.73	0.25	0.52	98.05
SM40	64.47	0.71	16.30	3.94	0.10	0.46	3.00	3.60	5.10	0.26	0.22	99.22
TQ52B	64.63	0.65	15.90	4.69	0.07	1.91	3.09	3.64	4.72	0.26	0.11	99.67
TQ159	64.91	0.67	15.68	4.84	0.06	1.89	3.03	3.93	4.13	0.27	0.02	99.43
SM09	65.40	0.58	16.80	3.38	0.10	0.60	1.90	4.00	5.90	0.18	0.39	99.57
TQ177	65.42	0.63	14.66	6.34	0.09	0.59	2.16	3.73	5.43	0.18	0.22	99.45
TQ333	65.74	0.74	15.26	5.38	0.07	0.88	2.66	3.52	5.21	0.23	0.03	99.72
BEZ28	65.96	0.63	15.22	4.11	0.07	0.72	2.01	3.77	5.81	0.25	0.49	99.04
TQ212	66.11	0.64	15.19	4.91	0.05	0.94	2.19	3.60	5.46	0.23	0.05	99.37
BEZ09	66.29	0.65	14.74	4.32	0.08	0.83	2.06	3.55	5.36	0.23	0.52	98.62
ETDSN	66.36	0.56	15.13	3.67	0.06	0.67	1.84	3.84	5.91	0.22	0.50	98.77
TQ340	66.46	0.52	13.96	6.51	0.08	1.55	2.94	3.37	3.99	0.18	0.05	99.61
TQ233	66.81	0.65	14.74	5.37	0.06	0.81	2.52	3.47	4.98	0.19	0.01	99.61
TQ186	67.10	0.64	15.09	4.07	0.07	0.91	2.15	3.95	4.64	0.20	0.58	99.40
TQ336	68.52	0.35	15.08	3.71	0.05	0.27	1.66	3.66	6.21	0.08	0.12	99.71
BEZ12	68.69	0.51	14.76	3.47	0.06	0.54	1.67	3.40	4.59	0.16	0.34	98.19
TQ356	68.93	0.44	13.37	5.80	0.08	0.41	1.59	3.15	5.50	0.11	0.19	99.57
TQ57	69.35	0.51	13.89	4.37	0.05	0.61	1.81	3.42	5.15	0.15	0.35	99.66
TQ337	69.65	0.33	14.66	3.70	0.06	0.26	1.33	3.52	6.08	0.08	0.13	99.80
SM16	70.40	0.38	14.20	2.88	0.07	0.38	1.60	2.80	5.50	0.09	0.20	98.83
Quartz diorites and monzodiorites												
SM58B	50.50	2.20	17.00	10.60	0.12	3.80	7.30	3.40	2.60	1.10	0.76	99.38
TQ59	52.68	1.42	16.75	9.96	0.13	4.39	6.48	3.78	2.73	0.62	0.50	99.44
TQ228A	55.40	1.31	17.58	7.84	0.10	2.75	5.31	3.74	3.32	0.51	0.62	98.38
TQ265	56.38	1.30	17.81	7.75	0.10	2.69	5.51	3.92	3.35	0.44	0.09	99.34
SM11A	56.90	1.40	16.20	7.30	0.14	3.30	5.90	3.10	3.30	0.42	0.77	99.39
TQ65	58.13	1.05	13.83	8.43	0.14	5.83	5.28	3.43	2.81	0.35	0.02	99.30
SM11B	59.20	1.10	15.40	6.50	0.14	3.40	5.40	3.10	3.20	0.39	0.55	99.18
TQ239	60.36	0.87	14.19	6.24	0.09	4.46	3.75	3.15	4.38	0.40	0.30	98.19
TQ185	60.52	0.76	15.71	7.55	0.13	2.65	4.70	3.81	3.12	0.27	0.09	99.31
TQ52A	60.58	0.95	15.39	7.00	0.09	3.56	4.37	3.40	3.35	0.38	0.17	99.24
TQ212	60.88	0.81	13.95	7.16	0.10	4.23	3.98	2.94	4.54	0.40	0.38	99.37
TQ62	61.05	0.96	15.36	7.12	0.09	3.29	4.29	3.49	3.36	0.37	0.40	99.78

TABLE A. (CONT.)

Sample Number	Ba (ppm)	Sr (ppm)	Y (ppm)	Sc (ppm)	Zr (ppm)	Be (ppm)	V (ppm)	Cr (ppm)	Hf (ppm)	Rb (ppm)	Nb (ppm)	Th (ppm)
Granitoids												
TQ131	N.D.*	N.D.	N.D.	N.D.	339	N.D.	N.D.	167	N.D.	135	N.D.	N.D.
TQ228	N.D.	N.D.	N.D.	N.D.	369	N.D.	N.D.	139	N.D.	125	28	N.D.
BEZ24	1269	405	20	7	523	2	37	39	11.5	154	N.D.	21.2
SBJ	1392	359	21	6	420	3	33	39	9.6	223	N.D.	31.4
SM40	1068	417	20	N.D.	400	N.D.	N.D.	N.D.	N.D.	189	26	34
TQ52B	N.D.	N.D.	N.D.	N.D.	277	N.D.	N.D.	88	N.D.	110	N.D.	N.D.
TQ159	N.D.	352	N.D.	N.D.	323	N.D.	N.D.	73	N.D.	108	N.D.	N.D.
SM09	1419	392	28	N.D.	445	N.D.	N.D.	N.D.	8	193	33	20
TQ177	N.D.	266	N.D.	N.D.	472	N.D.	N.D.	50	N.D.	117	35	N.D.
BEZ28	1006	332	21	5	370	3	29	47	8.9	205	N.D.	31.5
TQ212	N.D.	384	N.D.	N.D.	280	N.D.	N.D.	149	N.D.	210	36	N.D.
BEZ09	974	285	37	6	423	4	33	50	10.8	276	N.D.	56.2
ETDSN	979	294	24	5	343	3	28	49	8.3	234	N.D.	30.3
TQ340	N.D.	721	N.D.	N.D.	224	N.D.	N.D.	189	N.D.	124	N.D.	N.D.
TQ336	N.D.	272	N.D.	N.D.	435	N.D.	N.D.	50	N.D.	121	26	N.D.
BEZ12	965	253	23	4	447	2	24	50	8.4	180	N.D.	40.6
TQ356	N.D.	208	N.D.	N.D.	434	N.D.	N.D.	123	N.D.	143	33	N.D.
TQ337	N.D.	216	N.D.	N.D.	396	N.D.	N.D.	50	N.D.	135	24	N.D.
SM16	1092	267	17	N.D.	392	N.D.	N.D.	N.D.	N.D.	256	25	102
Quartz diorites and monzodiorites												
SM58B	1616	1037	19	N.D.	173	N.D.	N.D.	N.D.	N.D.	77	23	N.D.
TQ228A	N.D.	916	N.D.	N.D.	291	N.D.	N.D.	N.D.	N.D.	101	N.D.	N.D.
TQ265	1694	792	19	N.D.	290	N.D.	N.D.	101	N.D.	104	25	20
SM11A	1301	610	21	N.D.	266	N.D.	N.D.	N.D.	N.D.	106	30	15
SM11B	1321	580	18	N.D.	318	N.D.	N.D.	50	N.D.	124	24	16
TQ239	N.D.	1178	N.D.	N.D.	369	N.D.	N.D.	312	N.D.	131	N.D.	N.D.
TQ185	840	521	22	N.D.	228	N.D.	N.D.	124	N.D.	116	19	21
TQ212	1452	384	30	N.D.	322	N.D.	N.D.	149	N.D.	229	45	27
TQ62	1698	716	10	N.D.	281	N.D.	N.D.	148	N.D.	100	18	8

Sample Number	La (ppm)	Ce (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Yb (ppm)	Lu (ppm)	Total (ppm)	La/Yb
Granitoids												
BEZ24	124	225	82	10.00	2.01	N.D.	0.90	N.D.	1.72	0.22	445.85	72.09
SBJ	118	205	71	8.73	1.66	N.D.	0.90	N.D.	1.60	0.25	407.14	73.75
SM40	96	186	26	9.92	1.53	5.95	N.D.	4.18	1.42	0.20	333.70	67.53
SM09	103	184	32	10.03	1.61	6.17	N.D.	4.86	1.75	0.29	344.97	58.85
BEZ28	117	207	68	8.90	1.58	N.D.	0.90	N.D.	1.72	0.25	405.35	68.02
BEZ09	159	292	102	13.70	1.56	N.D.	1.50	N.D.	3.20	0.43	573.39	49.68
ETDSN	114	205	72	9.21	1.42	N.D.	1.00	N.D.	1.94	0.28	596.91	58.76
BEZ12	141	243	79	9.43	1.48	N.D.	1.40	N.D.	1.53	0.23	477.07	92.15
SM16	114	290	21	14.70	1.10	7.87	N.D.	4.59	1.08	0.15	457.08	106.00
Quartz diorites and monzodiorites												
SM58B	45	98	53	7.05	1.71	4.05	N.D.	2.87	0.99	0.13	214.82	45.29
TQ265	56	117	19	9.02	2.16	6.31	N.D.	4.99	2.03	0.28	220.89	27.89
SM11A	66	129	26	8.51	1.97	5.94	N.D.	4.70	1.86	0.27	246.55	35.32
SM11B	73	137	23	8.38	1.82	5.50	N.D.	4.18	1.69	0.24	257.48	43.07
TQ185	43	86	19	7.61	1.37	5.45	N.D.	4.93	2.56	0.37	174.60	16.75
TQ212	62	122	40	10.09	1.44	6.85	N.D.	5.62	2.76	0.41	254.90	22.35
TQ62	54	104	13	7.08	1.64	4.33	N.D.	3.16	1.13	0.16	190.59	47.87

Note: Samples of quartz diorites are from outcrops where granites are not present or from large enclaves (>1m in diameter) far away from the contact with the host granite. The only exception is sample TQ185 (synplutonic dike)

*N.D. = not determined or below detection levels.