

Table 1. Geochemical data and outcrop information for the samples from Barbados.

a) Sampling localities and lithotypes for the used samples and in brackets, the name of the tectonostratigraphic unit.

(A)	
Sample	lithotype
Bissex Hill Formation (Oceanic Group)	
<i>Outcrop: Bissex Hill - N13°13'19,9"-W59°33'01,5"</i>	
BH1	porous limestone
BH1A	porous limestone
Joes River Formation (Diapiric melange)	
<i>Outcrop: Barclay's Park - N13°13'52,8"-W59°32'44,4"</i>	
BR1A	massive black medium sandstone
BR1	massive black medium sandstone
BR2	bimodal sandstone (medium-fine) in black matrix
BR2A	bimodal sandstone (medium-fine) in black matrix
BR3	fine grained siltstone
BR3A	fine grained siltstone
BR4	brown fine to medium sandstone
BR4A	brown fine to medium sandstone
Upper Scotland Formation (Basal Complex)	
<i>Outcrop: Bruce Vale - N13°13'33,7"-W59°33'45,9"</i>	
SF1	poorly sorted medium sandstone
SF1A	poorly sorted medium sandstone
SF2	bimodal fine silt and medium sand
SF2A	bimodal fine silt and medium sand
SF3	bimodal clayey and fine silt
SF3A	bimodal clayey and fine silt
<i>Outcrop: Windy Hill - N13°14'47,4"-W59°33'05,3"</i>	
SF4	moderately sorted fine sandstone
SF4A	moderately sorted fine sandstone
SF5	limestone nodule
SF6	reddish medium sandstone
SF6A	reddish medium sandstone
SF8	conglomeratic
SF8A	conglomeratic

Outcrop: Benab - N13°14'27,8"-W59°32'47,6"

SF14A limestone - giant nodule

Outcrop: Barclay's Park - N13°13'53,2"-W59°32'42,4"

SF15 well sorted medium sandstone

SF15A well sorted medium sandstone

Outcrop: Chalky Mount - N13°13'52,7"-W59°33'16,6"

SF17 poorly sorted conglomeratic to silt

SF17A poorly sorted conglomeratic to silt

Outcrop: Baxter Hill - N13°13'23,4"-W59°34'20,9"

SF18 well sorted siltstone

SF18A well sorted siltstone

SF19 poorly sorted (medium-fine sandstone to silt)

SF19A poorly sorted (medium-fine sandstone to silt)

SF20 poorly sorted (medium-fine sandstone to silt)

SF20A poorly sorted (medium-fine sandstone to silt)

SF21 poorly sorted course sandstone

SF21A poorly sorted course sandstone

Lower Scotland Formation (Basal Complex)

Outcrop: Doughlin - N13°15'-34,9"-W59°34'19,6"

SF16A fine sandstone to silt angular

Outcrop: Walker's Ridge - N13°15'12,9"-W59°34'23,0"

SF9 well rounded bimodal (fine-medium sandstone)

SF9A well rounded bimodal (fine-medium sandstone)

SF10 well sorted well rounded medium sandstone

SF10A well sorted well rounded medium sandstone

SF11 well sorted well rounded fine-medium sandstone

SF11A well sorted well rounded fine-medium sandstone

SF12 bimodal silt to fine sandstone with fine organic matter

SF12A bimodal silt to fine sandstone with fine organic matter

SF13 well sorted well rounded fine-medium sandstone

SF13A well sorted well rounded fine-medium sandstone

Table 1. b) Geochemical data for the sampled rocks. % = weight percent; PPM = part per million; LOI = loss on ignition; d.l. = detection limit; SUM REE = sum of rare earth elements; CIA = chemical index of alteration; TOT/C = total carbon; TOT/S = total sulfur; CeN = normalized Cerium anomaly and EuN normalized Europium anomaly, calculated after Taylor and McLennan (1985); 'N' denotes chondritic normalization after Taylor and McLennan (1985); N.A. for CIA* (re-calculates the CIA under the assumption to use the value of TOT/C and P₂O₃ to estimate the amount of calcite and phosphates to reduce the CaO value for calculations) indicates the existence of C-rich phases far above the CaO which cause not interpretable values (after Fedo et al., 1995); Σ = SUM; Fm = Formation.

(B)														
element unit	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O _{3t} %	MgO %	CaO %	Na ₂ O %	K ₂ O %	TiO ₂ %	P ₂ O ₅ %	MnO %	LOI %	Sum %	CIA	CIA*
DL	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
<i>Bissex</i>														
<i>Hill Fm</i>														
BH1	9.2	3.49	2.49	0.9	44.46	0.07	0.52	0.13	0.07	0.02	38.6	99.9		
BH1A	9.03	3.67	1.79	0.88	44.52	0.1	0.5	0.12	0.09	0.02	39.2	99.89		
<i>Joes</i>														
<i>River Fm</i>														
BR1A	77.43	6.45	2.03	0.38	0.7	1.03	0.97	0.67	0.12	0.02	10	99.78	61.6	N.A.
BR1	78.98	6.17	1.49	0.36	0.62	0.98	0.95	0.57	0.12	0.02	9.6	99.83	62.1	N.A.
BR2	90.92	2.45	0.56	0.14	0.13	0.25	0.36	0.29	0.02	bdl	4.8	99.93	70.3	N.A.
BR2A	90.22	2.45	0.54	0.14	0.1	0.24	0.34	0.29	0.01	0.01	5.6	99.92	72.2	N.A.
BR3	83.53	5.13	1.21	0.29	0.35	0.64	0.99	0.46	0.03	0.01	7.2	99.89	65.0	N.A.
BR3A	83.42	5.55	1.12	0.25	0.24	0.73	1.11	0.37	0.03	bdl	7.1	99.91	66.2	N.A.
BR4	83.84	5.14	1.08	0.3	0.55	0.66	0.85	0.51	0.04	0.02	6.9	99.88	63.1	N.A.
BR4A	81.28	7.1	1.08	0.36	0.2	0.93	1.56	0.35	0.03	bdl	7	99.9	66.5	N.A.
<i>Upper</i>														
<i>Scotland</i>														
<i>Fm</i>														
SF1	94.32	1.71	0.46	0.05	0.17	0.07	0.17	0.24	0.02	bdl	2.7	99.94	73.8	N.A.
SF1A	94.61	1.44	0.51	0.08	0.24	0.09	0.18	0.27	0.01	bdl	2.5	99.94	64.9	N.A.
SF2	94.58	1.67	0.47	0.04	0.04	0.1	0.19	0.28	0.02	bdl	2.6	99.94	79.0	N.A.
SF2A	95.44	1.57	0.57	0.05	0.05	0.12	0.22	0.33	0.02	bdl	1.6	99.93	74.9	N.A.
SF3	78.5	9.12	3.92	0.48	0.16	0.93	1.3	0.63	0.08	0.02	4.7	99.84	73.9	79.1
SF3A	77.57	9.76	3.88	0.53	0.15	0.96	1.37	0.67	0.07	0.01	4.9	99.85	74.5	79.6
SF4	93.64	1.92	1.06	0.14	0.03	0.36	0.35	0.61	0.03	0.01	1.7	99.83	65.2	68.5
SF4A	93.5	2.03	1.12	0.15	0.04	0.42	0.39	0.56	0.03	0.01	1.6	99.86	63.1	66.0
SF5	49.02	1.82	1.17	1.91	23.69	0.24	0.36	0.22	0.12	0.02	21.3	99.86		
SF6	81.11	6.27	2.64	0.43	0.46	0.76	1.08	0.5	0.04	0.02	6.6	99.87	65.8	76.7
SF6A	78.26	7.6	2.97	0.54	0.4	0.81	1.21	0.57	0.05	0.02	7.4	99.86	69.3	86.0
SF8	85.6	5.21	3.87	0.21	0.07	0.84	1.03	0.54	0.05	bdl	2.5	99.89	66.5	69.0
SF8A	86.16	3.82	5.63	0.17	0.08	0.56	0.76	0.47	0.05	0.01	2.2	99.9	66.9	70.1
SF14A	64.84	4.2	1.57	0.57	13.85	0.68	0.69	0.38	0.04	0.02	13.1	99.91		
SF15	85.24	6.71	1.91	0.36	0.4	0.91	1.06	0.55	0.05	0.02	2.7	99.87	66.6	69.1
SF15A	85.91	6.33	2.32	0.35	0.44	0.84	1.03	0.54	0.06	0.02	2	99.87	65.8	69.3
SF17	95.23	1.51	0.18	0.04	0.09	0.07	0.18	0.24	0.02	bdl	2.4	99.95	76.1	N.A.
SF17A	95.3	1.54	0.23	0.03	0.04	0.06	0.22	0.26	0.02	bdl	2.3	99.96	79.0	N.A.
SF18	92.6	2.96	0.44	0.08	0.03	0.25	0.43	0.38	0.02	bdl	2.7	99.92	76.1	N.A.

(B)																
	Ba	Sr	Rb	Cs	Cr	V	Ni	Co	Nb	Ta	Hf	Zr	Y	Sc	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	1	0.5	0.1	0.1	0	8	0.1	0.2	0.1	0.1	0.1	0.1	0.1	1	0.2	0.1
BH1	36	396	20.3	1	34	82	15.6	3.4	0.7	bdl	0.6	22.6	8.9	4	1.2	22.1
BH1A	51	437.3	17.4	1	27	61	16.7	3.5	1.1	0.3	0.4	18.8	9.4	4	1.5	24.5
BR1A	352	361.6	33.2	1.6	27	93	21.2	6.5	10.6	1	17	691.2	33.2	8	7.7	3.1
BR1	327	322.9	31.2	1.4	34	80	14.5	5.4	9.1	0.7	11.7	440.1	22.1	7	5.8	2.3
BR2	98	20.8	12.5	0.5	14	25	4.9	1.1	10.6	0.8	10.8	422.9	10	3	5.4	2.1
BR2A	88	23.3	12.8	0.6	14	28	4	1.1	11.2	0.9	12.6	484.5	13.8	3	4.4	2.4
BR3	290	59.7	29.5	1	21	65	8.9	4.5	6.6	0.4	8.7	359.1	16.1	5	4.4	1.6
BR3A	340	81.7	35	1.4	27	60	8	2.7	6.5	0.4	5	207.6	14.4	4	4.5	1.4
BR4	251	67.6	26.3	1.1	27	65	11.7	3.7	7.8	0.7	11.5	440.4	18	6	5	2.2
BR4A	430	83.8	48	1.6	27	82	9.4	3.3	5.9	0.6	3.2	131.9	13	5	3.9	1.3
SF1	47	19.5	6.5	0.3	14	22	1	0.3	8.2	0.8	9.3	359.6	8.9	2	3.7	1.4
SF1A	50	20.9	6.4	0.4	14	17	1	0.8	8.2	0.8	9.6	412.1	8.5	2	4	1.3
SF2	61	21.5	6.8	0.3	14	18	2	0.9	8.7	0.7	9.9	404	8.5	2	4.3	1.2
SF2A	65	26.3	7.2	0.2	14	17	2	0.9	9.9	0.9	12.9	508.4	9.2	3	5.1	1.3
SF3	342	87.4	51.7	3	55	135	9.5	6.5	10.7	0.9	10.2	383.3	22.3	10	9.3	2.6
SF3A	349	61.6	52.8	3.2	48	142	9.8	6.7	10.9	0.8	9.3	371.8	23	10	8.8	2.6
SF4	83	29.6	10.1	0.3	21	26	0.6	0.5	20.2	1.8	27.3	1111.4	18.9	4	7.4	2.7
SF4A	101	31.7	11.3	0.4	21	34	1.1	0.6	17.6	1.6	21.4	862.2	17	4	7.7	2.3
SF5	110	413.3	12.3	0.5	14	32	6.5	2.2	5.4	0.5	6.3	262.8	22.1	3	3	2.7
SF6	266	57.8	37.9	1.4	34	94	8.1	4	10.2	0.8	11.4	450.5	19.6	6	8.3	2.2
SF6A	293	62.3	43.6	2.1	41	107	12.7	4.4	10.5	0.9	11.1	442.2	21.4	8	9.9	2.5
SF8	254	38	29.8	1.6	27	69	2.4	1.1	8.7	0.9	12.7	494.4	15	5	6.3	2.1
SF8A	184	28.5	22.5	1.4	27	53	8.6	3.6	9.9	0.7	12.7	513.9	16.5	4	7	1.9
SF14A	203	159.6	21.3	0.8	21	47	10	3.6	5.5	0.3	6	233.3	14.7	4	4	1.5
SF15	317	68.5	37.1	1.5	34	81	11.2	6.6	8.6	0.8	9.8	419.4	20.4	7	6.9	2.2
SF15A	296	63.6	34.3	1.4	34	81	9.7	4.5	8.7	0.6	11.2	406.9	21.7	8	6.5	2.3
SF17	47	21.7	6.4	0.2	14	11	0.5	0.6	9.2	0.8	10.2	412	7.7	2	4.3	1.6
SF17A	62	19.7	7.2	0.2	14	13	0.4	0.2	10.7	0.9	10.5	382.8	7.2	2	3.9	1.4
SF18	119	21.2	14.7	0.7	14	27	0.8	0.8	10.7	1	13.6	517.7	13.5	10	5.3	1.9

Table 1. b) (Continued)

(B)															
element unit	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O _{3t} %	MgO %	CaO %	Na ₂ O %	K ₂ O %	TiO ₂ %	P ₂ O ₅ %	MnO %	LOI %	Sum %	CIA	CIA*	
DL	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01					
SF18A	75.46	9.32	5.41	0.47	0.06	0.96	1.37	0.66	0.15	bdl	6	99.86	74.6	91.9	
SF19	94.46	2.09	0.26	0.04	0.01	0.09	0.26	0.32	0.01	bdl	2.4	99.92	82.4	N.A.	
SF19A	94.74	1.84	0.33	0.04	0.01	0.08	0.25	0.31	0.02	bdl	2.3	99.93	82.1	N.A.	
SF20	78.02	8.94	2.55	0.36	0.05	0.86	1.29	0.66	0.05	bdl	7.1	99.87	75.5	N.A.	
SF20A	78.74	9.99	1.53	0.39	0.05	0.85	1.42	0.7	0.03	bdl	6.2	99.87	76.8	N.A.	
SF21	58.71	24.95	1.6	0.28	0.02	0.13	1.2	1.1	0.05	bdl	11.8	99.81	94.2	N.A.	
SF21A	64.17	21.59	1.56	0.25	0.02	0.15	1.13	0.99	0.04	bdl	9.9	99.82	93.5	N.A.	
<i>Lower Scotland Fm</i>															
SF16A	75.51	4.42	9.41	1.15	1.06	0.55	0.55	0.39	0.06	0.18	6.6	99.89	56.3	N.A.	
SF9	96.35	1.5	0.51	0.06	0.03	0.11	0.13	0.21	0.04	bdl	1	99.95	79.9	85.4	
SF9A	96.2	1.45	0.52	0.07	0.13	0.13	0.13	0.21	0.02	bdl	1.1	99.96	71.0	76.3	
SF10	93	3.04	0.61	0.12	0.02	0.25	0.4	0.42	0.02	bdl	2	99.9	77.5	79.9	
SF10A	92.03	3.16	0.71	0.14	0.02	0.29	0.47	0.42	0.02	bdl	2.6	99.91	75.6	78.2	
SF11	92.47	3.26	0.64	0.13	0.02	0.32	0.46	0.44	0.01	bdl	2.2	99.91	75.5	75.9	
SF11A	93.53	3.09	0.66	0.13	0.03	0.34	0.48	0.44	0.02	bdl	1.2	99.91	73.2	74.4	
SF12	86.62	6.21	0.93	0.41	0.06	0.56	0.83	0.57	0.02	bdl	3.7	99.89	76.3	84.8	
SF12A	87.63	5.99	0.92	0.38	0.05	0.57	0.82	0.56	0.03	bdl	2.9	99.88	75.8	84.2	
SF13	95.16	2.12	0.44	0.08	0.01	0.19	0.26	0.42	0.02	bdl	1.2	99.9	77.6	79.7	
SF13A	95.4	1.84	0.37	0.07	0.01	0.17	0.25	0.4	0.02	bdl	1.4	99.9	76.4	78.7	
(B)															
element unit	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Σ REE ppm
DL	0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	
<i>Bissex Hill Fm</i>															
BH1	7.8	10	1.5	6.5	1.39	0.32	1.39	0.24	1.25	0.27	0.82	0.14	0.78	0.12	33
BH1A	7.1	10.1	1.37	6.3	1.33	0.28	1.5	0.16	1.36	0.2	0.81	0.07	0.86	0.09	32
<i>Joes River Fm</i>															
BR1A	30.8	64.3	7.44	29.6	6.01	1.17	5.7	0.87	5.48	1.16	3.55	0.48	3.58	0.49	161
BR1	22.9	50.1	6.01	25.7	4.64	0.97	4.56	0.71	4.02	0.9	2.68	0.39	2.74	0.42	127
BR2	10.8	21.3	2.21	8	1.5	0.23	1.51	0.26	1.65	0.38	1.14	0.19	1.55	0.26	51
BR2A	10.1	20.9	2.13	8.1	1.53	0.2	1.71	0.28	2.38	0.53	1.79	0.26	2.47	0.36	53
BR3	16	34	3.92	16.9	3.01	0.66	3.16	0.49	3.07	0.61	1.94	0.3	2.1	0.32	86
BR3A	16	35	3.64	13.5	2.68	0.5	2.46	0.34	2.28	0.42	1.28	0.19	1.5	0.19	80
BR4	17.6	37.1	4.44	18	3.42	0.73	3.02	0.51	3.03	0.63	1.84	0.32	2.03	0.33	93
BR4A	14.1	30.1	3.2	13.1	2.57	0.5	2.49	0.33	2.02	0.36	1.31	0.16	1.31	0.16	72

Table 1. b) (Continued)

(B)																
	Ba	Sr	Rb	Cs	Cr	V	Ni	Co	Nb	Ta	Hf	Zr	Y	Sc	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	1	0.5	0.1	0.1	0	8	0.1	0.2	0.1	0.1	0.1	0.1	0.1	1	0.2	0.1
SF18A	357	71.8	52.3	3	48	142	11.1	5.9	9.8	0.7	8.2	300.3	19.3	11	8	2.9
SF19	70	14.4	9.3	0.3	14	14	0.4	0.4	11.9	1	14.4	567.4	11.2	2	5.2	1.7
SF19A	65	15	8.8	0.5	14	14	0.6	0.6	10	0.9	13	521.7	11.8	2	5.6	1.9
SF20	345	51.7	47.5	2.5	41	111	5.4	4.1	11	0.9	9.5	363.3	22	9	7.8	2.4
SF20A	360	56	55	3	48	112	3.4	2.3	11.3	1	8.7	345.5	23	10	7.3	2.5
SF21	319	84.7	60.6	4	62	97	1.1	3	36.2	2.9	15	531	28.6	13	30.2	6.6
SF21A	296	74.5	54.4	3.5	62	90	1.1	2.8	31.1	2.6	15.9	590.7	25.4	12	26.1	6.3
SF16A	199	48	20.9	1.1	27	76	16.9	5	9	0.9	7	261.5	14.8	6	4.2	1.8
SF9	48	24.9	5.3	0.2	14	16	2.5	1.4	5.6	0.5	7.7	314.6	8.6	2	4.1	1.4
SF9A	45	27.8	5	0.3	14	16	2.8	1.4	5.5	0.6	8.1	306.9	10.1	2	4	1.3
SF10	123	20.4	15	0.6	14	37	3.9	1.8	10.1	0.7	14.3	539.2	16.8	3	5.6	2
SF10A	133	24.5	17.8	0.6	21	44	4.9	1.9	9.2	0.6	12.8	476.1	16.6	4	5.5	2.3
SF11	151	20.6	16	0.8	14	32	3.5	1.6	9.8	0.8	13	509	17.3	3	5	1.6
SF11A	158	22.4	17.1	0.5	21	34	4.1	2	9.2	0.7	12.2	497.3	19.3	3	5.3	2.2
SF12	229	42	32.5	1.7	27	77	7.6	3.1	12.3	0.8	11.5	433.7	19.9	6	7.3	2.6
SF12A	231	39.7	32.5	1.4	34	78	6.7	2.4	10.9	0.7	12	449	19.3	6	8.4	2.7
SF13	89	22.1	9.3	0.6	14	26	1.1	0.7	11.8	1.1	18.5	717	17.7	3	6.7	2.3
SF13A	76	21.2	9.2	0.4	21	27	1	0.8	11.1	1	16.7	649.7	15.7	3	6.1	2.2

(B)																
	Ce _N	Eu _N	La/Yb _N	Zr/Sc	Th/Sc	La/Sc	Ti/Zr	Nb/Y	Zr/Ti	Th/U	K/Cs	TC %	TS %	Pb ppm	Mo ppm	
												0.01	0.02	0.1	0.1	
BH1	0.85	0.66	6.76	6	0.30	1.95	34.48	0.08	0.029	0.05	4317	10.22	bdl	2.1	5.6	
BH1A	0.98	0.65	5.58	5	0.38	1.78	38.27	0.12	0.026	0.06	4151	10.3	bdl	2	4.3	
BR1A	1.04	0.58	5.81	86	0.96	3.85	5.81	0.32	0.172	2.48	5032	7.02	0.12	4.8	0.4	
BR1	1.05	0.62	5.65	63	0.83	3.27	7.76	0.41	0.129	2.52	5633	6.26	0.09	3.9	0.3	
BR2	1.09	0.44	4.71	141	1.80	3.60	4.11	1.06	0.243	2.57	5977	3.01	0.07	2.9	0.3	
BR2A	1.14	0.37	2.76	162	1.47	3.37	3.59	0.81	0.279	1.83	4704	3.08	0.07	2.6	0.3	
BR3	1.10	0.64	5.15	72	0.88	3.20	7.68	0.41	0.130	2.75	8218	4.24	0.08	3.2	0.2	
BR3A	1.11	0.57	7.21	52	1.13	4.00	10.68	0.45	0.094	3.21	6582	4.36	0.1	3.6	0.2	
BR4	1.01	0.64	5.86	73	0.83	2.93	6.94	0.43	0.144	2.27	7320	4.33	0.09	3.7	0.1	
BR4A	1.15	0.60	7.27	26	0.78	2.82	15.91	0.45	0.063	3.00	8093	4.24	0.11	4.4	0.3	

Table 1. b) (Continued)

(B)															
element unit	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Σ REE
DL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	PPm
	0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	
<i>Upper Scotland Fm</i>															
SF1	9.2	18	1.93	7.1	1.14	0.2	1.14	0.21	1.52	0.31	1.14	0.18	1.27	0.22	44
SF1A	9.7	18.2	1.87	6.8	1.08	0.17	1.01	0.18	1.09	0.29	0.93	0.11	1.13	0.17	43
SF2	10.9	21.2	2.27	8.1	1.38	0.18	1.13	0.21	1.46	0.29	0.95	0.15	1.21	0.19	50
SF2A	11.2	20.6	2.38	7.5	1.25	0.21	1.39	0.22	1.5	0.35	1.14	0.18	1.41	0.22	50
SF3	27.8	56.4	6.55	24.3	4.84	1.01	4.58	0.73	4.21	0.87	2.54	0.38	2.8	0.45	137
SF3A	24	48.8	5.89	23.6	4.71	0.93	4.23	0.7	4.15	0.83	2.47	0.39	2.56	0.42	124
SF4	12.3	25.7	2.78	9.9	1.87	0.32	2.02	0.42	2.94	0.66	2.28	0.42	3.16	0.53	65
SF4A	14.6	26.9	3.09	11.2	2.14	0.34	2.18	0.36	2.54	0.53	1.89	0.33	2.7	0.43	69
SF5	11.5	21.2	2.78	11.7	2.67	0.6	3.17	0.47	3.19	0.66	1.79	0.26	1.81	0.28	62
SF6	19.3	38.1	4.08	15.3	3.05	0.59	2.91	0.52	3.31	0.67	2.16	0.37	2.6	0.42	93
SF6A	23	43.1	4.76	18.8	3.35	0.65	3.24	0.52	3.68	0.71	2.28	0.36	2.62	0.41	107
SF8	14.1	27.6	3.13	12.3	2.27	0.39	2.24	0.39	2.37	0.55	1.63	0.32	2.13	0.36	70
SF8A	12.7	25.3	2.86	11.6	1.99	0.36	1.95	0.34	2.55	0.57	1.93	0.33	2.51	0.38	65
SF14A	13.5	27.4	3.16	12.5	2.39	0.48	2.47	0.38	2.51	0.57	1.64	0.23	1.67	0.25	69
SF15	19.4	37	4.36	16.2	3.66	0.74	3.01	0.52	3.16	0.66	2.04	0.35	2.18	0.34	94
SF15A	20.9	40.3	4.75	18.3	3.52	0.68	3.36	0.57	3.86	0.74	2.33	0.32	2.33	0.36	102
SF17	8.8	16.1	1.59	5.6	0.88	0.16	1.01	0.16	1.23	0.25	0.81	0.16	1.29	0.21	38
SF17A	8.7	14.1	1.5	4.9	1.05	0.13	0.82	0.13	1.09	0.19	0.72	0.11	1.07	0.15	35
SF18	13.7	26.3	2.74	10.1	2.06	0.33	1.81	0.31	2.08	0.45	1.51	0.25	1.73	0.3	64
SF18A	27.8	59	7.14	27	3.81	0.83	3.68	0.55	3.45	0.67	2.27	0.31	2.2	0.37	139
SF19	10.6	20.2	2.07	7.2	1.42	0.17	1.26	0.25	1.61	0.4	1.32	0.24	1.82	0.29	49
SF19A	10.9	19.9	2.03	7.2	1.25	0.16	1.31	0.23	1.67	0.35	1.31	0.21	1.66	0.27	48
SF20	22	42	4.85	19	3.73	0.72	3.51	0.57	3.5	0.78	2.45	0.36	2.44	0.38	106
SF20A	22.1	43.1	5.18	20	3.86	0.76	3.8	0.6	3.96	0.76	2.48	0.37	2.56	0.39	110
SF21	72.3	118.9	14.17	45.6	7.85	1.33	6.43	0.97	5.93	1.02	3.07	0.49	3.31	0.5	282
SF21A	58.6	99.1	12.09	40.7	6.66	1.14	5.44	0.84	4.79	0.93	2.76	0.44	3.16	0.49	237
<i>Lower Scotland Fm</i>															
SF16A	14.3	27.8	3.36	12.3	2.42	0.49	2.37	0.33	2.12	0.47	1.42	0.2	1.63	0.25	69
SF9	8.5	15.7	1.76	6.3	1.1	0.19	1.13	0.2	1.4	0.27	0.84	0.17	1.13	0.2	39
SF9A	8.9	16.9	1.8	6.7	1.31	0.19	1.39	0.18	1.48	0.32	1.03	0.16	1.32	0.19	42
SF10	14.5	28.6	3.18	11.1	2.27	0.34	2.09	0.38	2.34	0.55	1.72	0.29	2.08	0.34	70
SF10A	14.2	27.5	3.07	12	2.33	0.45	2.24	0.35	2.59	0.51	1.69	0.26	2.12	0.32	70
SF11	14.3	27.4	3.05	11.3	2.25	0.37	2.31	0.37	2.46	0.59	1.76	0.29	2.25	0.37	69
SF11A	13.9	27.5	3.16	11.9	2.33	0.35	2.1	0.37	2.71	0.63	1.85	0.29	2.12	0.36	70
SF12	20.9	39.2	4.59	16	3.25	0.6	3.12	0.52	3.17	0.65	2.11	0.36	2.4	0.39	97
SF12A	21.9	46.2	5.16	19.9	3.3	0.61	3.36	0.51	3.25	0.66	2.15	0.32	2.3	0.34	110
SF13	14.5	29.6	3.09	10.4	1.92	0.28	2.01	0.4	2.62	0.63	2.2	0.35	2.37	0.42	71
SF13A	13.1	24.8	2.8	10.3	1.71	0.28	1.84	0.32	2.14	0.52	1.66	0.25	2.15	0.37	62

Table 1. b) (Continued)

(B)															
	Ce _N	Eu _N	La/Yb _N	Zr/Sc	Th/Sc	La/Sc	Ti/Zr	Nb/Y	Zr/Ti	Th/U	K/Cs	TC % 0.01	TS % 0.02	Pb ppm 0.1	Mo ppm 0.1
SF1	1.07	0.50	4.89	180	1.85	4.60	4.00	0.92	0.250	2.64	4704	1.07	0.05	2.3	0.2
SF1A	1.11	0.46	5.80	206	2.00	4.85	3.93	0.96	0.255	3.08	4317	0.86	0.04	2.4	0.3
SF2	1.05	0.39	6.09	202	2.15	5.45	4.15	1.02	0.241	3.58	5257	0.59	0.04	2.3	0.2
SF2A	0.92	0.48	5.37	169	1.70	3.73	3.89	1.08	0.257	3.92	9131	0.64	0.04	2.4	0.2
SF3	0.99	0.62	6.71	38	0.93	2.78	9.85	0.48	0.101	3.58	3597	0.27	0.17	8.1	0.9
SF3A	1.00	0.59	6.33	37	0.88	2.40	10.80	0.47	0.093	3.38	3554	0.29	0.05	6.2	0.7
SF4	1.04	0.46	2.63	278	1.85	3.08	3.29	1.07	0.304	2.74	9685	0.03	0.07	3	1.3
SF4A	0.99	0.46	3.65	216	1.93	3.65	3.89	1.04	0.257	3.35	8093	0.03	0.09	3.3	1.9
SF5	0.95	0.64	4.29	88	1.00	3.83	5.02	0.24	0.199	1.11	5977	5.72	0.37	2.1	2.1
SF6	1.08	0.56	5.02	75	1.38	3.22	6.65	0.52	0.150	3.77	6404	0.54	0.87	6.4	0.6
SF6A	1.08	0.57	5.93	55	1.24	2.88	7.73	0.49	0.129	3.96	4783	0.87	0.88	8.7	0.6
SF8	1.05	0.49	4.47	99	1.26	2.82	6.55	0.58	0.153	3.00	5344	0.07	0.04	1.9	0.3
SF8A	1.07	0.52	3.42	128	1.75	3.18	5.48	0.60	0.182	3.68	4506	0.06	0.07	3.3	0.9
SF14A	1.04	0.59	5.46	58	1.00	3.38	9.76	0.37	0.102	2.67	7160	3.83	0.05	2.9	0.2
SF15	0.98	0.61	6.01	60	0.99	2.77	7.86	0.42	0.127	3.14	5866	0.11	0.03	4.7	0.3
SF15A	1.00	0.56	6.06	51	0.81	2.61	7.96	0.40	0.126	2.83	6107	0.15	bdl	5.4	0.3
SF17	1.13	0.52	4.61	206	2.15	4.40	3.49	1.19	0.286	2.69	7471	0.77	0.03	3	0.2
SF17A	1.01	0.38	5.49	191	1.95	4.35	4.07	1.49	0.246	2.79	9131	0.72	bdl	2.5	0.1
SF18	1.10	0.48	5.35	52	0.53	1.37	4.40	0.79	0.227	2.79	5099	0.67	0.02	2.6	0.2
SF18A	0.96	0.65	8.54	27	0.73	2.53	13.18	0.51	0.076	2.76	3791	0.86	0.41	8.1	0.5
SF19	1.08	0.34	3.94	284	2.60	5.30	3.38	1.06	0.296	3.06	7194	0.43	bdl	2.9	0.2
SF19A	1.10	0.36	4.44	261	2.80	5.45	3.56	0.85	0.281	2.95	4151	0.45	bdl	3.3	0.2
SF20	1.03	0.57	6.09	40	0.87	2.44	10.89	0.50	0.092	3.25	4283	1.7	0.07	7.6	0.4
SF20A	0.98	0.58	5.83	35	0.73	2.21	12.15	0.49	0.082	2.92	3929	1.52	0.04	6.4	0.3
SF21	0.90	0.52	14.76	41	2.32	5.56	12.42	1.27	0.081	4.58	2490	0.77	0.03	8	0.5
SF21A	0.89	0.53	12.53	49	2.18	4.88	10.05	1.22	0.100	4.14	2680	0.67	0.06	12	0.4
SF16A	0.94	0.61	5.93	44	0.70	2.38	8.94	0.61	0.112	2.33	4151	1.57	0.17	3.8	1.8
SF9	1.01	0.49	5.08	157	2.05	4.25	4.00	0.65	0.250	2.93	5396	0.01	bdl	2.8	0.2
SF9A	1.08	0.44	4.56	153	2.00	4.45	4.10	0.54	0.244	3.08	3597	0.04	bdl	2.9	0.3
SF10	1.00	0.43	4.71	180	1.87	4.83	4.67	0.60	0.214	2.80	5534	0.03	bdl	2.6	0.1
SF10A	1.06	0.57	4.53	119	1.38	3.55	5.29	0.55	0.189	2.39	6502	0.04	bdl	3	0.1
SF11	1.03	0.48	4.29	170	1.67	4.77	5.18	0.57	0.193	3.13	4773	0.01	bdl	2.9	bdl
SF11A	1.01	0.44	4.43	166	1.77	4.63	5.30	0.48	0.189	2.41	7969	0.01	bdl	3.2	bdl
SF12	0.95	0.54	5.88	72	1.22	3.48	7.88	0.62	0.127	2.81	4053	0.33	0.09	5.3	0.4
SF12A	1.05	0.55	6.43	75	1.40	3.65	7.48	0.56	0.134	3.11	4862	0.31	0.08	5.2	0.2
SF13	1.05	0.40	4.13	239	2.23	4.83	3.51	0.67	0.285	2.91	3597	0.01	0.03	2.5	bdl
SF13A	1.01	0.46	4.12	217	2.03	4.37	3.69	0.71	0.271	2.77	5188	0.01	0.03	2.9	bdl