

Gold potential of the Roraima Supergroup in Guyana

by

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Mineralium Deposita

Online supplementary material Table A3

**Whole rock geochemical analyses of siliciclastic rocks from various drillcores
through the Roraima Supergroup.**

Table A3 Whole rock geochemical analyses of siliciclastic rocks from various drillcores through the Roraima Supergroup.

Borehole/ Sample	Depth (m)	SiO ₂ (wt.%)	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃ *	MnO	MgO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	S	LOI	Total
DH 24SW5														
3001	3.00-3.22	74.24	0.41	13.33	3.08	0.06	0.43	0.38	0.06	4.55	0.08	0.00	3.61	100.23
DH23NE1														
3238	54.36-54.57	83.79	0.06	2.80	0.90	0.03	0.17	5.71	0.04	0.74	1.51	0.00	3.98	99.73
3584	277.36-277.68	86.61	0.09	2.80	1.23	0.18	0.50	3.41	0.02	0.50	0.04	0.00	3.94	99.32
DH24SW2														
3751	239.91-240.26	88.70	0.13	5.40	1.20	0.03	0.35	0.52	0.14	1.64	0.09	0.00	2.15	100.35
3790	409.86-410.01	75.46	0.50	11.09	4.88	0.08	1.84	1.12	0.45	1.71	0.11	0.00	3.06	100.30
3791	410.01-410.37	69.54	0.53	13.73	5.76	0.08	2.22	1.09	0.41	2.41	0.10	0.00	4.21	100.08
3792	410.37-410.52	73.01	0.96	11.16	6.70	0.07	2.13	0.49	0.51	1.98	0.14	0.00	3.32	100.47
DH24NW1														
3929	41.82-42.04	95.91	0.08	3.33	0.70	0.00	0.24	0.09	0.00	1.06	0.03	0.00	0.56	102.00
DH33NE9														
4655	40.85-41.20	84.51	0.25	8.46	1.52	0.03	0.13	0.36	0.06	2.67	0.23	0.00	1.80	100.02
4733	42.20-42.45	93.67	0.04	1.54	0.64	0.01	0.03	0.08	0.00	0.47	0.03	0.00	3.64	100.15
DH43SW1														
5575	482.93-483.1	58.75	0.64	12.83	7.42	0.13	3.47	5.99	0.18	2.97	0.25	0.00	6.75	99.38
DH33SE2														
5602	95.15-95.30	93.08	0.04	1.81	0.65	0.00	0.05	0.07	0.00	0.52	0.04	0.00	3.55	99.81
DH33NE12														
5687	217.96-218.32	82.88	0.16	3.30	1.29	0.02	0.16	0.26	0.03	1.09	0.08	0.00	9.85	99.12
5688	220.49-220.75	88.69	0.12	5.19	1.20	0.02	0.22	0.16	0.04	1.57	0.04	0.00	2.78	100.03
DH33SE2														
5909	47.17-47.36	85.37	0.09	3.81	0.93	0.00	0.06	0.09	0.00	1.15	0.08	0.00	7.66	99.24
5960	94.83-95.00	94.90	0.06	2.31	0.69	0.00	0.09	0.05	0.00	0.69	0.04	0.00	1.12	99.95
DH43SW6														
6296	225.49-225.58	73.36	0.45	9.26	4.14	0.13	0.83	5.08	1.36	0.80	0.11	0.00	4.41	99.93
6297	225.58-225.70	62.64	1.15	12.95	11.42	0.18	2.06	3.44	1.22	1.28	0.28	0.00	3.74	100.36
6298	225.7-225.85	49.32	1.68	17.09	18.20	0.27	3.50	2.28	0.62	2.59	0.27	0.00	4.60	100.42
DH33SE10														
6876	53.81-53.98	82.32	0.39	9.87	2.69	0.01	0.56	0.22	0.00	3.39	0.17	0.00	0.80	100.42
DH24SW2														
6493	240.26-240.42	85.45	0.24	7.47	1.35	0.04	0.51	0.91	0.14	2.34	0.19	0.00	1.56	100.20
DH23NE3														
7188	48.92-49.15	82.47	0.32	9.78	1.08	0.01	0.52	0.11	0.02	3.21	0.08	0.00	2.89	100.49
7189	59.97-60.21	85.09	0.17	6.87	1.04	0.02	0.36	0.56	0.14	2.60	0.04	0.00	3.21	100.10
7193	48.84-49.21	81.32	0.23	7.46	1.20	0.01	0.45	0.53	0.00	2.60	0.32	0.00	5.35	99.47
7195	48.00-48.22	84.53	0.24	8.35	1.17	0.02	0.42	0.14	0.00	2.91	0.08	0.00	2.43	100.29
7197	70.31-70.55	82.94	0.24	8.05	1.04	0.01	0.60	0.11	0.00	2.76	0.04	0.00	4.44	100.23
7228	47.88-48.14	81.18	0.11	5.75	0.62	0.00	0.31	0.05	0.00	1.90	0.04	0.00	10.13	100.09
7335	35.35-35.56	92.83	0.08	2.89	0.76	0.02	0.08	0.06	0.00	0.78	0.02	0.00	2.46	99.98
7372	28.23-28.52	81.13	0.38	12.38	1.24	0.01	0.67	0.02	0.04	3.98	0.02	0.00	0.59	100.46
DH49NW2A														
7532	200.81-200.94	90.24	0.06	4.79	0.91	0.01	0.31	0.22	0.84	0.83	0.02	0.00	0.62	98.85
7533	200.94-201.07	55.99	0.67	21.01	8.75	0.19	1.47	0.75	0.45	5.61	0.21	0.00	3.97	99.07
7534	201.07-201.22	59.28	0.65	19.81	7.49	0.05	1.59	0.70	0.27	5.18	0.16	0.00	3.91	99.09
7535	201.47-201.59	61.51	0.60	18.44	7.52	0.06	1.55	0.44	0.27	4.92	0.11	0.00	3.54	98.96
7536	201.75-201.83	60.25	0.66	20.21	6.00	0.08	2.11	0.40	0.54	4.74	0.17	0.00	3.61	98.77
7537	202.22-202.35	57.60	0.66	19.60	9.39	0.08	2.36	0.60	0.38	4.64	0.35	0.00	3.46	99.12
7538	202.81-202.9	60.27	0.63	18.97	7.40	0.07	1.50	0.58	0.55	4.63	0.16	0.00	3.90	98.66
7539	204.26-204.36	59.94	0.64	20.31	6.74	0.11	2.22	0.38	0.76	4.40	0.19	0.00	3.45	99.14
DH23NE1A														
7640	277.68-277.85	47.24	1.12	24.58	12.28	0.20	3.18	0.65	2.17	3.11	0.34	0.00	4.22	99.09

Borehole/ Sample	Depth (m)	SiO ₂	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃ *	MnO	MgO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	S	LOI	Total
DH23NE1														
7641	54.57-54.66	65.36	0.65	18.59	2.87	0.05	1.11	1.06	0.05	6.39	0.09	0.00	2.80	99.02
DH24NW1														
7642	42.04-42.17	76.85	0.28	12.74	1.78	0.01	0.87	0.14	0.00	4.36	0.06	0.00	2.08	99.17
DH23NE2														
7643	48.22-48.28	84.54	0.19	8.39	0.99	0.01	0.44	0.07	0.00	2.96	0.04	0.00	1.19	98.82
7644	70.55-70.6	69.93	0.69	16.04	2.47	0.02	1.17	0.17	0.03	5.52	0.09	0.00	2.61	98.74
DH23NE4														
7645	40.66-40.78	91.18	0.08	4.23	0.63	0.00	0.22	0.15	0.00	1.79	0.05	0.00	0.61	98.94
7646	49.21-49.31	71.31	0.45	15.58	2.39	0.02	1.05	0.16	0.07	5.48	0.06	0.00	2.42	98.99
DH24SW5														
7647	296.45-296.59	70.88	0.75	12.71	6.41	0.09	2.15	1.19	0.29	2.18	0.46	0.00	1.54	98.65
7648	196.59-296.71	66.77	0.75	15.31	6.60	0.12	3.29	0.96	0.34	2.62	0.39	0.00	2.14	99.29
DH24SW8														
7649	306.24-306.34	67.52	0.73	15.23	7.48	0.09	2.55	0.31	1.06	1.41	0.12	0.00	3.03	99.53
7650	306.34-306.49	62.09	0.71	18.78	8.33	0.05	1.84	0.36	1.70	2.28	0.17	0.00	3.13	99.44
DH33SE10														
7651	99.18-9.23	55.23	0.83	23.75	6.23	0.03	1.01	0.26	0.08	7.25	0.15	0.00	3.79	98.61

*all iron calculated as Fe₂O₃; LOI - loss on ignition

Borehole/ Sample	Depth (m)	Mo (ppm)	Sn	Nb	Zr	Y	Sr	Rb	U	Th	Pb	Zn	Ga	Ni	Co	Cr	V	Ba	CIA
DH 24SW5																			
3001	3.00-3.22	0	0	6	135	25	48	134	0	6	13	21	13	16	0	34	36	832	72
DH23NE1																			
3238	54.36-54.57	0	0	0	88	18	181	20	12	0	14	0	0	7	0	24	13	331	
3584	277.36-277.68	0	0	0	41	13	67	10	0	0	0	21	7	21	0	36	19	136	
DH24SW2																			
3751	239.91-240.26	0	0	0	74	10	128	50	0	6	10	0	7	9	0	31	16	558	69
3790	409.86-410.01	0	0	10	113	15	170	54	0	7	10	34	12	39	0	84	59	484	74
3791	410.01-410.37	0	0	8	200	18	162	73	0	14	5	53	17	38	0	96	63	644	75
3792	410.37-410.52	0	0	9	195	15	84	59	0	5	0	62	16	49	14	121	100	504	79
DH24NW1																			
3929	41.82-42.04	0	0	0	62	0	46	30	0	0	5	0	0	6	0	18	<10	323	75
DH33NE9																			
4655	40.85-41.20	0	0	6	198	20	40	64	0	0	7	10	8	11	0	33	19	798	79
4733	42.20-42.45	0	0	0	36	9	55	8	0	0	0	0	8	7	0	22	12	266	76
DH43SW1																			
5575	482.93-483.1	0	0	7	118	21	151	101	0	0	6	76	22	97	23	101	92	1038	
DH33SE2																			
5602	95.15-95.30	0	0	0	36	0	24	8	0	0	0	0	0	0	0	22	13	115	80
DH33NE12																			
5687	217.96-218.32	0	0	0	72	14	50	26	0	0	10	0	7	8	0	27	18	280	73
5688	220.49-220.75	0	0	0	69	12	24	37	0	0	0	0	6	7	0	27	18	385	74
DH33SE2																			
5909	47.17-47.36	0	0	0	62	12	58	25	0	6	0	0	7	5	0	24	18	671	80
5960	94.83-95.00	0	0	0	52	0	23	16	0	0	5	0	6	8	0	23	17	156	79
DH43SW6																			
6296	225.49-225.58	0	0	0	87	18	400	30	0	0	11	48	15	30	16	66	51	272	
6297	225.58-225.70	0	0	0	100	26	416	54	5	0	7	92	18	52	27	80	103	738	62
6298	225.7-225.85	0	0	0	99	32	309	111	0	0	0	145	29	84	51	81	122	1252	73
DH33SE10																			
6876	53.81-53.98	0	0	6	314	16	64	111	0	7	22	12	17	16	0	46	46	799	76
DH24SW2																			
6493	240.26-240.42	0	0	5	114	15	111	73	0	0	6	0	14	10	0	32	19	841	70
DH23NE3																			
7188	48.92-49.15	0	0	7	420	26	99	91	0	0	22	0	11	10	0	32	18	933	75
7189	59.97-60.21	0	0	0	157	16	134	73	0	0	0	0	16	8	0	21	17	680	64
7193	48.84-49.21	0	0	7	251	15	43	74	0	7	0	0	13	8	0	32	19	700	80
7195	48.00-48.22	0	0	0	235	15	35	80	0	6	6	8	10	8	0	30	18	640	74
7197	70.31-70.55	0	0	0	275	17	32	78	0	0	0	12	13	10	0	35	25	648	73
7228	47.88-48.14	0	0	0	119	13	75	51	0	0	0	0	5	<5	0	15	15	543	75
7335	35.35-35.56	0	0	0	53	0	26	22	0	0	6	0	9	5	0	17	16	232	78
7372	28.23-28.52	0	0	8	453	17	41	112	0	10	13	11	17	8	0	34	24	1084	74
DH49NW2A																			
7532	200.81-200.94	0	<15	<5	69	<8	42	42	0	<5	5	16	7	5	<10	18	29	273	65
7533	200.94-201.07	0	18	15	134	25	55	301	0	6	25	93	26	36	15	107	87	1326	75
7534	201.07-201.22	0	<15	13	115	23	47	285	0	10	16	105	33	41	16	93	74	1007	76
7535	201.47-201.59	0	<15	13	105	14	36	263	0	7	11	101	22	41	<10	85	68	940	76
7536	201.75-201.83	0	<15	14	125	26	42	232	0	10	10	107	32	40	17	96	145	782	78
7537	202.22-202.35	0	<15	15	121	36	37	258	0	11	12	110	25	43	17	112	138	772	81
7538	202.81-202.9	0	<15	13	124	21	39	239	0	7	14	95	22	34	<10	93	93	890	76
7539	204.26-204.36	0	<15	15	121	26	49	209	0	9	46	107	29	42	16	97	96	732	79
DH23NE1A																			
7640	277.68-277.85	0	0	12	211	19	281	101	0	<5	18	178	38	144	48	170	177	690	80

Borehole/ Sample	Depth (m)	Mo	Sn	Nb	Zr	Y	Sr	Rb	U	Th	Pb	Zn	Ga	Ni	Co	Cr	V	Ba	CIA
DH23NE1																			
7641	54.57-54.66	0	0	13	515	37	245	186	7	7	19	29	13	14	<10	38	30	1616	69
DH24NW1																			
7642	42.04-42.17	0	0	<5	190	9	77	126	0	<5	17	14	20	9	<10	26	23	1201	73
DH23NE2																			
7643	48.22-48.28	0	0	<5	202	13	31	79	0	<5	14	8	6	<5	<10	20	22	669	73
7644	70.55-70.6	0	0	13	943	34	51	169	0	21	20	33	21	13	<10	62	43	1256	73
DH23NE4																			
7645	40.66-40.78	0	0	<5	66	9	41	48	0	<5	9	<5	<5	<5	<10	16	19	477	69
7646	49.21-49.31	0	0	11	363	28	50	159	0	8	9	22	23	12	<10	40	31	1356	72
DH24SW5																			
7647	296.45-296.59	0	0	9	195	25	207	73	0	8	<5	61	24	45	<10	116	89	751	85
7648	196.59-296.71	0	0	8	164	20	200	92	0	<5	13	96	11	77	25	107	114	828	85
DH24SW8																			
7649	306.24-306.34	0	0	8	136	12	174	51	0	<5	<5	106	17	60	22	81	103	348	83
7650	306.34-306.49	0	0	8	144	15	231	84	0	<5	8	69	22	63	20	86	94	578	79
DH33SE10																			
7651	99.18-9.23	0	0	12	192	22	43	222	0	6	25	35	31	10	<10	83	55	1715	76