GCM Evaluates Molybdenum Uranium Vanadium At Boulia Project

HIGHLIGHTS

- GCM has conducted exploration activities to further its understanding of the Molybdenum, Uranium and Vanadium prospectivity of the Boulia project.
- These activities included soil sampling, reprocessing the existing radiometric data and reviewing historical information.
- Completion of these activities has identified four target areas and resulted in GCM submitting an application for an additional area where a good correlation between radiometric and geochemical data exists and rare outcrops are present.
- Further activities are scheduled for 2024, including sampling of the four target areas and a drilling campaign of the shallow magnetic bodies.

Figure 1: Sampling a rare outcrop (an altered fault zone) in typical Boulia terrain.

2023 Activities

Alongside the increased interest and global demand for Molybdenum, Uranium and Vanadium, GCM conducted various exploration activities in 2023 at its Boulia project, including soil sampling, a review of existing radiometric data and a review of historical fieldwork. From this work GCM has determined the evaluation of the Boulia project is reliant upon soil and drillhole geochemistry, as well as magnetic and radiometric imagery. Given this, GCM has scheduled further relevant exploration works in 2024.

GCM has prioritised soil sampling for its initial stage fieldwork activities due to limited outcropping and only very poorly defined streams. GCM conducted a very wide spaced soil sampling programme over the Boulia project during 2023 with the main purpose of outlining a source to the rare earth – polymetallic stream sediment anomalism. This work was reported to the ASX on 18 November 2023.

GCM has also recognised four peak areas of Molybdenum Uranium and Vanadium geochemistry (see Table 1 attached to this report), as shown in Figures 2 and 3, and named Targets A, B, C, and D. They all lie within faulted limestones of the Cretaceous Toolebuc formation, which is almost flat lying, and is obscured by shallow cover to the south. These limestones are often comprised of shell fragments and are quite porous, and in areas around Targets B and D, they are often quartz and chalcedony veined, recrystallised, and brecciated. The alteration and veining are most intense over the shallow magnetic bodies.

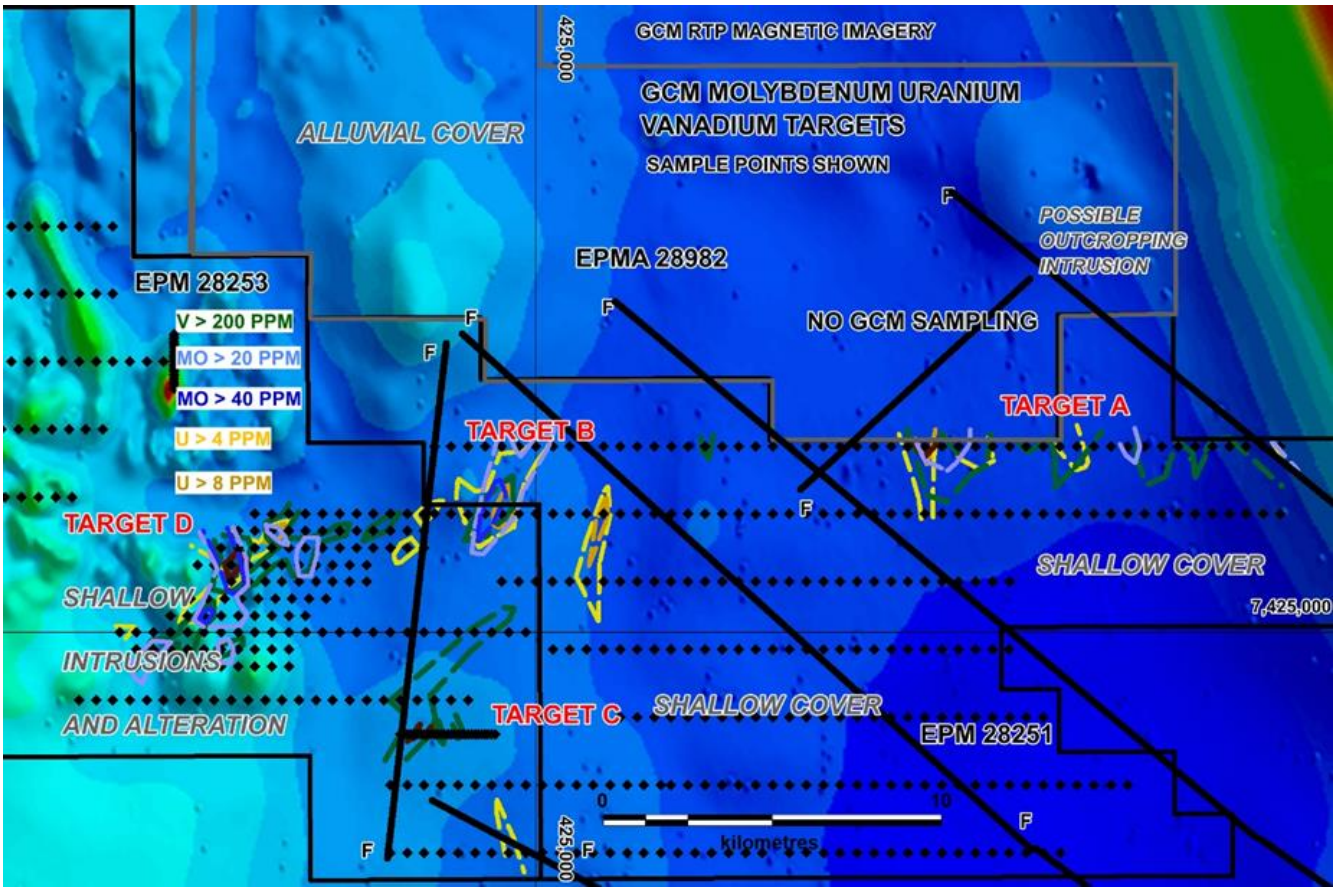

Figure 2: GCM Soil Mo-U-V targets on magnetic imagery (interpreted faults)

Radiometric Data Review

GCM has acquired available airborne radiometric data over the project area, which has been reprocessed to highlight the maximum Uranium signals. The imagery is shown in Figure 3.

There is good agreement between the airborne Uranium signal and the GCM geochemical targets. Following evaluation of the target A data, GCM has submitted application EPM 28982 (Canary North). This application covers the outcropping portion of target A which lay outside of granted EPM 28251 and an area containing a magnetic body that may be a poorly outcropping intrusion, in an area not obscured by alluvium.

Maximum soil values from the GCM soil sampling are:

Target	Molybdenum ppm*	Uranium ppm*	Vanadium ppm
A	27.5	11	342
B	47.3	13	235
C	21.3	6	294
D	115	12	519

*In the local alkaline weathering environment Molybdenum and Uranium are mobile and are subject to surface depletion and enrichment at depth.

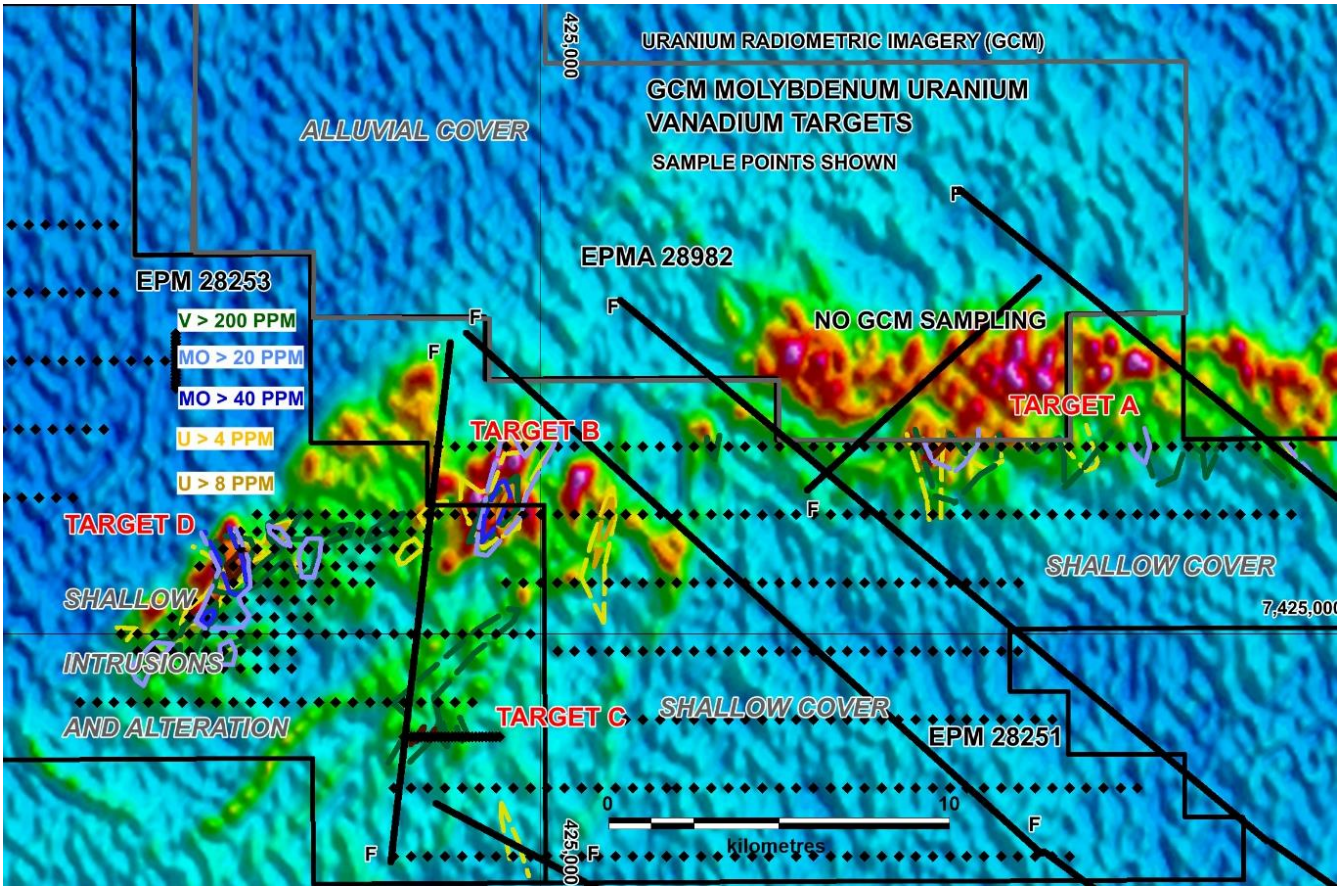

Figure 3: GCM Mo-U-V targets on Uranium radiometric imagery

Historical Fieldwork

Previous exploration for Uranium by Jacaranda Minerals Ltd (2007-2011) under EPMs 15234, 15235, and 15236 involved very wide spaced aircore drilling with the sites shown on Figure 4. Most of the holes were analysed at 1cm intervals by downhole radiometric logging, and some holes were scanned by a handheld pXRF analyser. Open file reports CR67692, 67931, and 67700 contain the data as appendices.

GCM has decided to not use the handheld pXRF data in its evaluation as the Jacaranda reports contain no check analyses to verify the handheld pXRF, the handheld pXRF results are incomplete and conflict with the radiometric data and no analysis for Vanadium was reported (results of 0.5% have been reported elsewhere).

The Jacaranda radiometric Uranium analyses indicate that there are strong variations in grade and thicknesses within the limestone beds. These results generally support the GCM geochemistry and the GCM airborne radiometrics, as the target areas A B and C gave the strongest logging responses.

Target D may be a different style of mineralisation where the underlying magnetic intrusion has caused stronger veining and alteration than can be seen in the other targets (Figures 6 and 7).

There are numerous very high Uranium cps counts over 1cm thicknesses in target A, and these continue below the limestone host. This feature is interpreted as due to Uranium in shear related fractures adjacent to faults. Background response within the Toolebuc formation is about 30 cps.

The drilling verified the continuation of the mineralisation under shallow cover to the south, and very large areas of potential mineralisation are indicated.

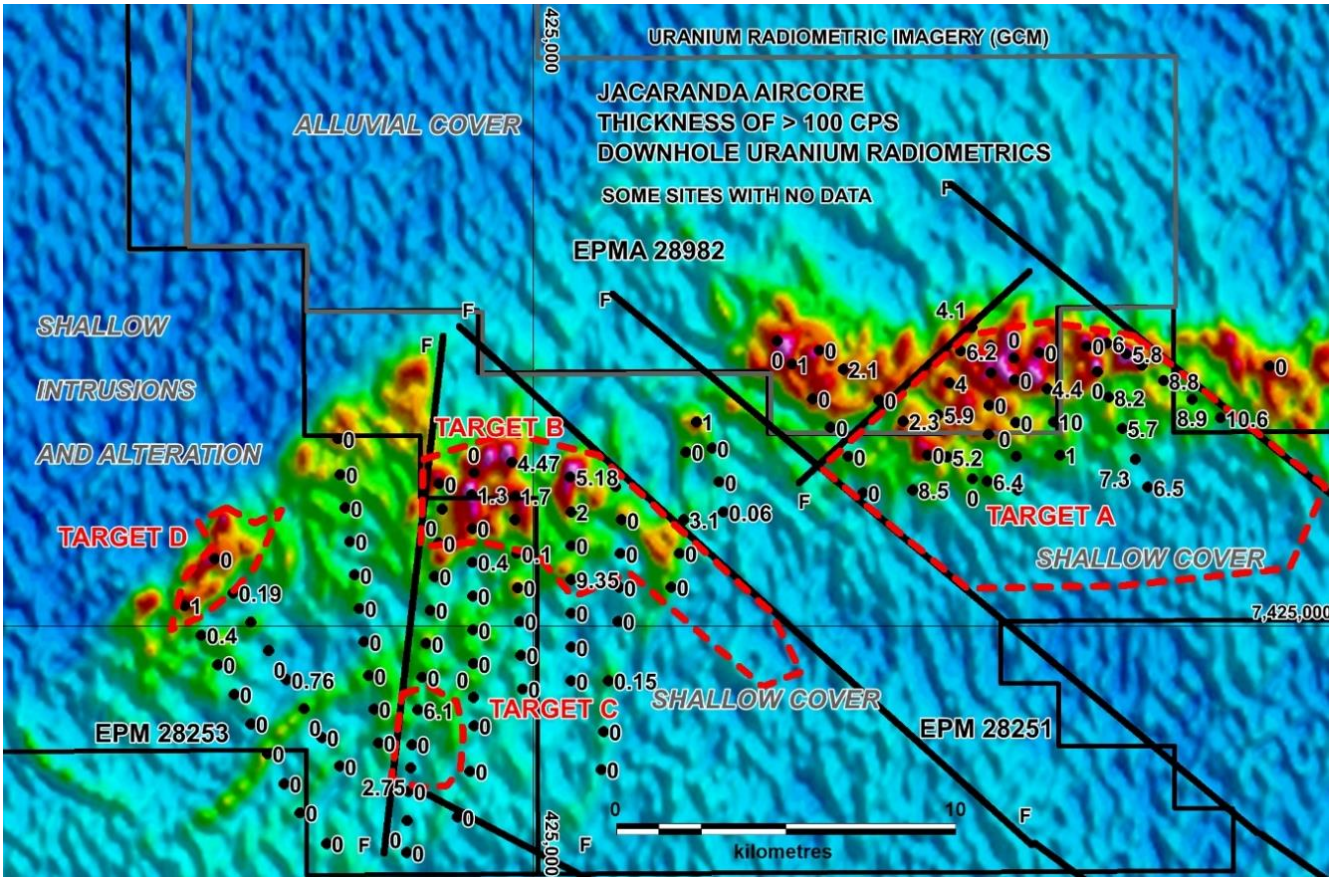

Figure 4: GCM targets and Jacaranda aircore sites – thicknesses of >100 cps U downhole

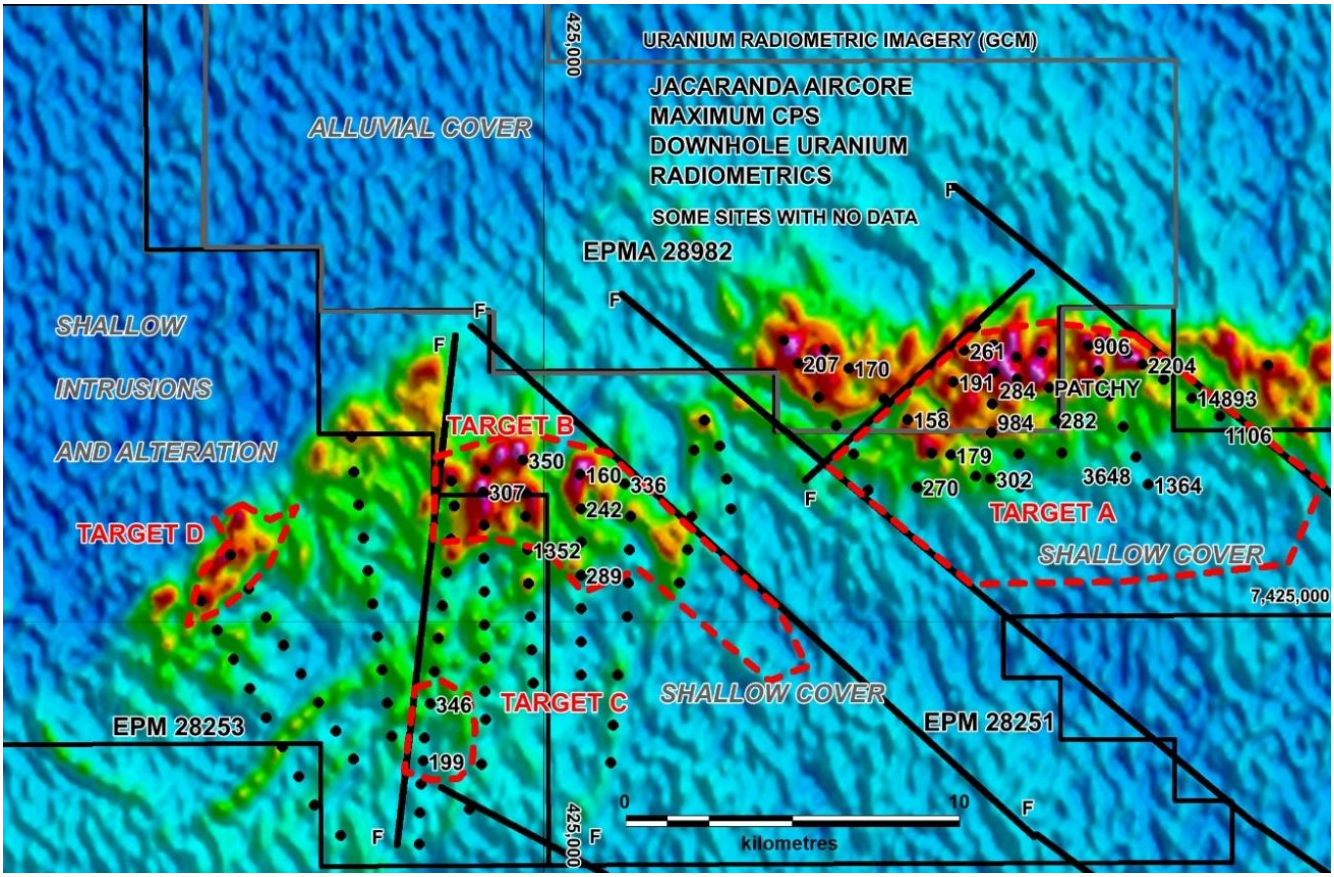

Figure 5: GCM targets and Jacaranda aircore sites – maximum Uranium cps counts downhole. Patchy results in some holes may represent a local lack of fracturing in the host beds.

Figure 6: Recrystallised quartz veined limestone from Target D

Figure 7: Brecciated limestone from Target D

Mining Lease Grant – Queensland Government Policy

The Queensland State Government policy of not granting Uranium Mining Leases still stands but is now in serious conflict with the global need for Uranium (and Molybdenum / Vanadium) as major critical minerals in the efforts to replace fossil fuels. This need has caused significant price rises in the past 12 months.

Next Steps

GCM plan to drill the shallow magnetic bodies during 2024, to test the potential for intrusion related mineralisation such as may be present in skarns, veins or breccias.

The peak Molybdenum Uranium Vanadium target areas will be sampled in more detail, with major work depending on any possible change in the State Government Uranium policy.

Competent Person Statement

The information in this release that relates to exploration results is based on information compiled by Mr Neil Wilkins M.Sc. Exploration and Mining Geology, who is a Member of The Australian Institute of Geoscientists. Mr Wilkins is employed by Ascry Pty Ltd, which provides consultancy services to GCM. Mr Wilkins has previously worked in the Boulia Project area and has more than five years' experience which is relevant to the styles of mineralisation and types of deposit mentioned in this report and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves' (the JORC Code). This public report is issued with the prior written consent of the Competent Person as to the form and context in which it appears. Mr Wilkins holds shares in Green Critical Minerals Limited.

Authorisation

The provision of this announcement to the ASX has been authorised by the board of directors of Green Critical Minerals Limited.

Green Critical Minerals confirms that it is not aware of any new information or data that materially affects the exploration results contained in this announcement.

Forward Looking Statements

Statements contained in this release, particularly those regarding possible or assumed future performance, costs, dividends, production levels or rates, prices, resources, reserves or potential growth of Green Critical Limited, are, or may be, forward looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties. Actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors.

Table 1 – GCM Mo U V wide spaced soil results GDA 94 coordinates

Sample	East	North	Mo	U	V
9909	411300	7429000	0.54	0.818	56.3
9910	410801	7428999	0.53	0.865	66.9
9911	410302	7428999	0.49	0.608	49.9
9912	409800	7429000	0.27	0.344	25.9
9913	409301	7429000	0.47	0.597	57.9
9914	408801	7429000	0.26	0.272	34.1
9915	408300	7429000	0.48	0.386	44.2
9916	407800	7429000	0.35	0.354	40.6
9917	407301	7429001	0.23	0.357	43.2
9918	408200	7431000	0.25	0.362	50.4
9919	408701	7431000	0.27	0.407	51.7
9920	409201	7431000	0.45	0.544	53.4
9921	409700	7431000	0.41	0.499	52.7
9922	410200	7431000	0.27	0.372	27.6
9923	410700	7431000	0.26	0.242	32.8
9924	411200	7431000	0.24	0.416	51.2
9925	411700	7431000	0.43	0.443	42.9
9926	412200	7431000	0.26	0.445	38.1
9927	410501	7433000	0.38	0.33	25.8
9928	410001	7433000	0.25	0.361	38.6
9929	409500	7433000	0.4	0.455	51.4
9930	409001	7433000	0.35	0.476	49.2
9931	408501	7433000	0.27	0.364	55.7
9932	408000	7433000	0.28	0.464	74.7
9933	412500	7437000	0.34	0.306	82.9
9934	412001	7437000	0.22	0.248	52.9
9935	411500	7437000	0.19	0.362	46.2
9936	410999	7437000	0.34	0.428	39.8
9937	410500	7437000	0.25	0.286	50.1
9938	410000	7437000	0.19	0.259	48.5
9939	409501	7437000	0.23	0.265	63
9940	409500	7435000	0.95	0.396	123.5
9941	410001	7435000	0.94	0.348	58.1
9942	410500	7435000	0.3	0.441	57.6
9943	411001	7435000	0.29	0.387	75.8
9944	411501	7435000	0.39	0.426	35.9
9945	412000	7435000	0.3	0.284	36.7
9946	412502	7435000	0.29	0.358	50.4
9947	411002	7433000	0.51	0.385	86.6
9948	411500	7432999	0.35	0.463	63
9949	412000	7433000	0.44	0.419	67.2
9950	412501	7433000	0.27	0.468	58

Sample	East	North	Mo	U	V
9951	413000	7433000	0.48	0.375	26.4
9952	413500	7433000	0.38	0.328	34.1
9953	413999	7433000	0.67	0.313	27.9
9954	414501	7433000	0.8	0.727	51.9
9955	415001	7433000	0.56	0.618	47.1
9956	414301	7432200	0.94	0.807	57.8
9957	414300	7432299	0.25	0.425	28.5
9958	414300	7432400	0.41	0.44	32.9
9959	414300	7432500	0.53	0.584	38.1
9960	414300	7432600	0.31	0.491	31.6
9961	414301	7432700	0.33	0.585	38.1
9962	414300	7432799	0.94	0.529	65
9963	414301	7432900	0.49	0.413	39
9964	414300	7433000	0.3	0.311	27.8
9965	414301	7433100	0.52	0.591	42.2
9966	414300	7433200	0.48	0.702	50.1
9967	414300	7433300	0.38	0.492	28.7
9968	414300	7433400	0.59	0.475	41.7
9969	414300	7433500	0.6	0.639	38.1
9970	414300	7433600	0.38	0.339	32.4
9971	414301	7433700	0.43	0.546	38.4
9972	414299	7433800	0.71	0.566	43.2
9973	415001	7427000	14.65	2.46	160.5
9974	415500	7427000	11.7	3.59	142.5
9975	416000	7427000	115	8.01	519
9976	416499	7427000	13.05	2.37	149
9977	417000	7427000	27.5	2.26	214
9978	417502	7427000	3.24	1.345	114.5
9979	418000	7427000	29.1	3.88	308
9980	418501	7427000	12.45	1.995	184
9981	419001	7427000	7.58	1.64	111.5
9982	419501	7427000	9.33	1.405	120
9983	420001	7427000	12.45	2.41	154
9984	416699	7425000	16.2	2.86	185
9985	416200	7425000	11.55	1.41	177
9986	415700	7425000	5.07	1.05	139
9987	415201	7425000	7.83	1.235	145
9988	414701	7425000	15.35	2.59	202
9989	414200	7425000	6.38	1.635	139.5
9990	413700	7425001	6.1	1.52	121
9991	413201	7425000	13.45	2.61	119.5
9992	412701	7425000	17.5	7.03	121
9993	411501	7423000	3.57	1.805	92

Sample	East	North	Mo	U	V
9994	412000	7423000	3.16	0.708	109
9995	412500	7423000	1.32	0.451	76.7
9996	413000	7423001	1.8	0.574	105.5
9997	413500	7423000	2.88	0.578	89.4
9998	413999	7423000	4.96	1.2	118.5
9999	414501	7423000	4.43	1.075	116
10000	415001	7423000	2.67	0.883	110
10001	415499	7423000	2.8	0.74	94.4
10002	416001	7423000	4.89	1.115	115
10003	416501	7423000	5.34	1.37	149.5
10004	417001	7423000	2.54	0.515	87.2
10005	417500	7423000	1.8	0.706	89.7
10006	418000	7423000	2.77	0.671	98
10007	418500	7423000	6.16	1.945	135.5
10008	420701	7425000	3.99	1.145	117.5
10009	420200	7425000	1.7	0.427	80.7
10010	419701	7425000	2.82	0.807	100.5
10011	419200	7425000	2.41	0.672	80
10012	418700	7425000	2.15	0.459	70.6
10013	418201	7425000	1.36	0.449	73.3
10014	417702	7425000	4.44	1.01	124.5
10015	417201	7424999	7.53	2.26	131.5
10016	424700	7425000	6.35	1.055	136.5
10017	424201	7425000	8.76	1.295	161.5
10018	423701	7425000	13.35	2.08	226
10019	423200	7425000	15.65	2.61	216
10020	422700	7425000	5.89	1.485	128
10021	422201	7425000	5.09	1.935	124
10022	421701	7425000	2.87	1.38	98.9
10023	421199	7425000	1.67	0.544	73.6
10024	419000	7423000	3.3	1.17	88.6
10025	419500	7422999	5.49	1.125	104.5
10026	420001	7423000	7.21	1.65	115.5
10027	420501	7423000	8.81	1.18	127
10028	421001	7423000	11.75	3.24	227
10029	421501	7423000	10.5	3.28	210
10030	422001	7423000	11.3	3.93	191
10031	422499	7423001	12.55	2.43	183.5
10032	422999	7423000	14.35	1.855	178
10033	423801	7422000	9.14	1.5	177
10034	423701	7422000	10.8	1.655	192.5
10035	423600	7421999	7.82	1.115	152.5
10036	423501	7422000	9.12	1.44	171

Sample	East	North	Mo	U	V
10037	423400	7422000	9.27	2.25	170.5
10038	423301	7422000	10.95	1.905	190.5
10039	423201	7422000	10.7	1.46	183
10040	423101	7422000	10.3	1.825	173
10041	423000	7422000	10.3	2.43	191.5
10042	422900	7422000	8.24	2.61	157.5
10043	422801	7422000	12.1	4.94	217
10044	422701	7422000	13.35	3.95	231
10045	422601	7422000	11.05	2.06	183
10046	422500	7422000	12.9	2.18	165
10047	422402	7422000	18.4	2.72	211
10048	422300	7422000	11.2	2.12	174
10049	422201	7422000	14.85	3.12	242
10050	422099	7422000	21.3	2.56	264
10051	422001	7422000	9.31	1.945	179.5
10052	421900	7422000	11.5	1.87	180.5
10053	421801	7422000	15.7	2.12	308
10054	421701	7422000	14.55	2.14	258
10055	421599	7422000	17.7	3.99	243
10056	421501	7421999	13	5.19	294
10057	421400	7422000	22.8	4.47	388
10058	421301	7422000	10.45	1.815	151
10059	421200	7422000	11.9	6.15	240
10060	421100	7422000	13.7	2.07	209
10061	421000	7422000	11.3	2.95	198.5
10062	420702	7420499	6.19	2.28	159.5
10063	421199	7420500	8.35	1.395	177.5
10064	421699	7420500	8.34	1.175	169.5
10065	422199	7420500	12.35	1.475	190.5
10066	422700	7420500	17.55	1.24	135
10067	423201	7420500	8.53	2.71	143
10068	423700	7420500	7.09	3.98	137.5
10069	424200	7420500	7.29	1.76	131.5
10070	424700	7420500	10.5	1.955	148
10071	425199	7420501	5.04	1.83	118.5
10072	425700	7420501	6.49	1.675	114.5
10073	426200	7420500	5.27	1.98	117.5
10074	426700	7420500	7.76	1.155	158.5
10075	427200	7420500	2.85	1.21	96.7
10076	427700	7420501	0.53	0.696	44.1
10077	428200	7420500	0.47	0.882	50.5
10078	428700	7420500	0.37	0.742	44.1
10079	431701	7418500	0.26	0.532	38.9

Sample	East	North	Mo	U	V
10080	431201	7418500	0.31	0.553	41
10081	430700	7418500	0.33	0.624	44
10082	430201	7418500	0.25	0.523	36
10083	429699	7418500	0.32	0.71	46.5
10084	429201	7418500	0.39	0.84	55.6
10085	428701	7418500	0.42	0.829	54.1
10086	428200	7418500	0.42	0.594	51
10087	427700	7418500	0.43	0.765	57
10088	427200	7418500	0.36	0.588	47
10089	426701	7418500	1.12	0.81	45.7
10090	426200	7418500	3.01	1.35	77.7
10091	425700	7418500	1.82	0.783	74.8
10092	425201	7418501	3.22	2.13	109
10093	424700	7418500	5.88	2.37	138
10094	424200	7418500	8.25	4.83	147.5
10095	423700	7418500	6.24	1.575	131
10096	423201	7418500	6.94	2.75	153
10097	422701	7418500	7.4	3.76	142
10098	422200	7418500	16.8	2.36	211
10099	421701	7418500	9.05	11.2	132
10100	421201	7418500	12.3	2.98	178
10101	420701	7418500	5.41	1.935	124.5
10110	435001	7430499	9.26	2.36	158
10111	434499	7430500	4.39	1.95	111
10112	434000	7430500	4.19	1.585	103.5
10113	433500	7430500	7.46	2.06	141.5
10114	433001	7430500	7.85	2.2	147.5
10115	432500	7430500	6.38	2.09	134
10116	432001	7430500	12.05	3.24	191
10117	431500	7430500	12.65	2.86	198
10118	431002	7430500	4.97	1.25	150
10119	430500	7430500	2.9	1.115	85.4
10120	430001	7430500	15.75	3.85	242
10121	429500	7430500	14.4	3.4	160.5
10122	429002	7430500	4.62	1.625	99.2
10123	428500	7430500	5.28	1.78	96.4
10124	428000	7430500	3.88	1.54	86.6
10125	427500	7430500	11.5	2.48	138.5
10126	427002	7430499	5.29	1.73	109.5
10127	426500	7430500	10.45	3.1	142.5
10128	426001	7430500	8.39	2.05	109.5
10129	425501	7430500	7.35	2.58	132
10130	425001	7430500	29.3	5.03	185

Sample	East	North	Mo	U	V
10131	424501	7430500	8.21	3.19	147
10132	424001	7430500	21.4	3.27	143.5
10133	423500	7430499	14.55	2.6	138
10134	423001	7430499	8.92	2.4	131.5
10135	422501	7430500	5.55	1.57	106
10136	422001	7430500	15.45	2.52	169
10137	421999	7428500	7.12	2.42	136
10138	422500	7428500	9.74	2.87	148
10139	423000	7428499	10.6	5.52	172
10140	423501	7428500	47.3	4.25	235
10141	424000	7428500	32.5	13.4	229
10142	424500	7428501	14	2.54	160
10143	425000	7428501	4.85	1.415	122
10144	425501	7428500	4.51	3.01	145
10145	426001	7428500	6.29	1.675	147
10146	426499	7428500	6.67	2.18	128.5
10147	427001	7428500	6.43	1.1	57.8
10148	427500	7428500	3.44	0.509	10.8
10149	428001	7428500	10.3	2.33	101.5
10150	428499	7428501	4.63	1.4	99.8
10151	429002	7428500	2.72	1.205	85.6
10152	429498	7428500	5.33	1.815	107
10153	430000	7428500	4.21	1.065	105.5
10154	430500	7428500	4.72	1.64	104.5
10155	431001	7428500	6.04	1.785	156
10156	431501	7428499	2.9	0.922	90.7
10157	432001	7428501	2.38	0.897	85.5
10158	432500	7428500	2.13	1.34	83.9
10159	433001	7428500	3.64	1.5	82.4
10160	433501	7428500	11.4	2.81	178.5
10161	434000	7428500	7.87	1.305	139.5
10162	434500	7428501	11.4	1.785	172.5
10163	435500	7430500	13.05	2.5	175.5
10164	436000	7430500	10.25	5.15	174
10165	436499	7430500	27.8	10.9	342
10166	437001	7430500	24.2	3.45	154.5
10167	437501	7430500	23.9	4.46	233
10168	438000	7430500	16	6.26	217
10169	438499	7430500	16.1	2.73	172
10170	439001	7430500	16	3.3	186
10171	439500	7430500	14.05	3.82	205
10172	440000	7430500	10.05	1.985	169
10173	440499	7430500	12	4.66	254

Sample	East	North	Mo	U	V
10174	441001	7430500	15.45	4.21	248
10175	441500	7430500	24.5	2.4	164.5
10176	442000	7430499	11	2.21	143.5
10177	442499	7430500	21.7	2.07	144.5
10178	443000	7430500	16.8	3.08	279
10179	443500	7430500	16.7	3.4	255
10180	444000	7430500	7.71	1.515	167.5
10181	444499	7430500	13.25	2.73	213
10182	445001	7430500	12.05	1.615	170
10183	445499	7430501	14.35	1.94	190.5
10184	446000	7430500	16.5	3.02	214
10185	446499	7430500	14.05	1.645	221
10186	447003	7430500	21.1	5.71	300
10187	447001	7428500	6.98	1.755	129
10188	446501	7428500	3.32	1.5	97.6
10189	446001	7428501	4.82	0.974	111.5
10190	445500	7428501	6.78	0.978	144
10191	445000	7428500	5.71	1.28	118.5
10192	444501	7428500	5.87	1.22	132
10193	443999	7428500	4.19	0.79	104
10194	443499	7428500	5.3	1.46	141.5
10195	443000	7428501	2.24	0.849	92.3
10196	442500	7428500	2.3	0.804	87.7
10197	442002	7428500	3.09	0.75	87.8
10198	441501	7428500	3.07	0.791	93.1
10199	441001	7428500	4.65	0.919	104
10200	440500	7428502	7.21	1.085	145.5
10201	440000	7428500	5.98	1.19	124.5
10202	439500	7428500	5.73	1.075	124.5
10203	439000	7428500	5.24	1.16	132.5
10204	438501	7428500	7.95	0.771	112.5
10205	438000	7428500	7.34	0.78	127
10206	437501	7428500	2.67	1.28	88.7
10207	437000	7428500	10.95	1.63	185
10208	436500	7428500	7.63	4.73	179
10209	436000	7428500	4.66	1.185	123.5
10210	435501	7428500	3.63	1.44	114.5
10211	435001	7428500	4.99	0.938	124.5
10212	434001	7426500	3.37	1.54	92.1
10213	434500	7426500	13	2.03	163.5
10214	435003	7426500	3.83	1.555	114.5
10215	435501	7426500	4.1	1.135	107.5
10216	436001	7426500	2.57	1.005	82.1

Sample	East	North	Mo	U	V
10217	436501	7426500	1.63	0.732	63.6
10218	437001	7426502	0.96	0.625	65.3
10219	437501	7426500	2.18	0.757	72.1
10220	438000	7426501	4.06	1.345	110
10221	438500	7426500	3.14	1.305	92.7
10222	439001	7426500	3.43	1.24	104
10223	439000	7424500	0.39	0.458	39.8
10224	438501	7424501	0.46	0.499	43.5
10225	438001	7424500	0.71	0.708	53.9
10226	437500	7424500	0.58	0.679	46.5
10227	437000	7424500	1.91	0.935	61.6
10228	436500	7424500	0.97	0.72	51.9
10229	436000	7424500	0.92	0.694	46.7
10230	435500	7424500	0.67	0.687	52.4
10231	435001	7424500	1.04	0.924	58.8
10232	434501	7424500	0.68	0.667	50.7
10233	433999	7424500	0.6	0.582	44.9
10234	433500	7424500	0.82	0.762	51.1
10235	433500	7426500	2.79	1.16	77
10236	433000	7426500	1.15	0.692	59.2
10237	432501	7426500	4.14	1.845	109
102371	433501	7420500	0.95	0.749	45.3
10238	432001	7426500	1.91	1.08	65
10239	431501	7426500	2.99	1.665	77.8
10240	431000	7426500	1.48	1.155	69
10241	430500	7426500	2.02	0.897	66
10242	430000	7426500	4.6	1.07	105.5
10243	429501	7426500	19	3.48	230
10244	429000	7426500	6.46	1.765	125
10245	428500	7426500	3.27	0.853	101.5
10246	428000	7426500	4.63	0.971	116
10247	427500	7426499	5.06	1.345	121.5
10248	427002	7426500	11.15	3.57	182.5
10249	426500	7426500	10.7	6.58	187.5
10250	425999	7426500	7.81	2.49	150.5
10251	425499	7426499	6.64	1.885	136.5
10252	425000	7426501	4.41	1.235	98
10253	424500	7426500	2.36	0.582	83.6
10254	424000	7426500	4.48	1.285	114
10255	425501	7424500	3.15	0.873	108.5
10256	426000	7424500	3.29	1.035	114.5
10257	426500	7424500	5.51	1.44	129.5
10258	427000	7424500	5.62	1.29	156.5

Sample	East	North	Mo	U	V
10259	427500	7424500	4.55	2.4	131
10260	428000	7424500	4.45	1.59	109.5
10261	428501	7424500	0.7	0.919	50
10262	428999	7424500	0.53	0.688	49.9
10263	429501	7424501	0.71	0.999	52.5
10264	430001	7424500	0.63	0.942	56.9
10265	430501	7424500	0.61	0.713	50
10266	431000	7424500	0.74	0.697	51.5
10267	431500	7424501	0.65	0.827	53.7
10268	431999	7424500	0.59	0.723	54.6
10269	432500	7424500	0.77	0.777	56.6
10270	432999	7424500	0.71	0.839	63.8
10271	433001	7422501	0.6	0.767	66.2
10272	432501	7422500	0.38	0.889	54.2
10273	432000	7422500	0.59	0.794	65.5
10274	431499	7422500	0.42	0.58	47.6
10275	431001	7422500	0.39	0.5	45.5
10276	430500	7422500	0.65	0.563	54.1
10277	430000	7422500	0.44	0.529	50.7
10278	429501	7422500	0.4	0.5	48.3
10279	429001	7422500	0.49	0.593	51.4
10280	428501	7422500	0.67	0.75	55.4
10281	428000	7422500	3.33	1.115	117.5
10282	427500	7422500	0.55	0.913	55.8
10283	429001	7420500	0.46	0.885	47.1
10284	429500	7420500	0.44	0.796	44.7
10285	430001	7420500	0.38	0.774	56.2
10286	430500	7420500	0.36	0.756	47.1
10287	431000	7420500	0.35	0.61	50.4
10288	431500	7420500	0.44	0.589	51.1
10289	432000	7420500	0.4	0.791	52.1
10290	432500	7420500	0.46	0.822	53.9
10291	433000	7420501	0.38	0.859	43.8
10292	432500	7418500	0.23	0.499	38
10293	433000	7418502	0.31	0.574	44.1
10294	433499	7418500	0.26	0.592	41.9
10295	434000	7418500	0.2	0.469	32.1
10296	434501	7418500	0.37	0.569	50.6
10297	435001	7418500	0.29	0.517	44.1
10298	435501	7418500	0.3	0.467	44.6
10299	435999	7418500	0.29	0.674	48.2
10300	436501	7418500	0.24	0.474	37.7
10301	437000	7418500	0.2	0.455	32.4

Sample	East	North	Mo	U	V
10302	437500	7418500	0.28	0.459	38.7
10303	438000	7418500	0.23	0.422	39.4
10304	438500	7418500	0.3	0.661	55.6
10305	439000	7418500	0.24	0.649	49
10306	439500	7418500	0.33	0.632	52.2
10307	440001	7418500	0.2	0.414	30.5
10308	440500	7418500	0.34	0.451	46.4
10309	442500	7420500	0.36	0.466	43.3
10310	442001	7420500	0.41	0.58	50.1
10311	441501	7420500	0.26	0.416	37.1
10312	441001	7420500	0.28	0.469	40.3
10313	440500	7420500	0.29	0.431	40
10314	440000	7420500	0.24	0.451	44.1
10315	439500	7420500	0.29	0.58	46.8
10316	439001	7420500	0.29	0.942	51.4
10317	438500	7420500	0.25	0.459	39.5
10318	438000	7420500	0.35	0.707	47.5
10319	437501	7420500	0.29	0.939	50.7
10320	437001	7420500	0.31	0.622	52.9
10321	436501	7420500	0.28	0.763	49.2
10322	436000	7420500	0.33	0.565	56.1
10323	435501	7420500	0.28	0.657	62.5
10324	435001	7420500	0.34	0.677	66.3
10325	434500	7420500	0.3	0.992	51.3
10326	434000	7420500	0.22	1.36	62.1
10328	433500	7422500	0.42	0.949	58.6
10329	434000	7422500	0.62	0.794	72.2
10330	434500	7422500	0.51	0.923	75.4
10331	435000	7422500	0.51	0.845	58.8
10332	435498	7422500	0.55	0.6	54.6
10333	435999	7422500	0.34	0.735	48.9
10334	436500	7422500	0.53	0.78	66.6
10335	437000	7422500	0.46	0.443	42.5
10336	437501	7422500	0.35	0.419	43.6
10337	438000	7422500	0.39	0.61	60.3
10338	438500	7422500	0.27	0.495	43.3
10339	439001	7422500	0.32	0.498	49.7
10340	439501	7422500	0.47	0.461	37
10341	440001	7422500	0.35	0.482	45
10342	416701	7428500	8.09	1.61	144
10343	417201	7428499	5.15	1.24	108.5
10344	417700	7428500	12.8	3.65	228
10345	418200	7428500	11.2	2.79	181

Sample	East	North	Mo	U	V
10346	418700	7428500	13.45	1.875	164
10347	419201	7428501	10.05	2.61	163
10348	419701	7428500	11.85	3.64	186.5
10349	420199	7428500	15.15	1.715	186.5
10350	420700	7428500	14.05	3.57	197.5
10351	421201	7428500	11.1	2.28	183.5
10352	421701	7428500	4.57	5.57	99.6
10353	421700	7428000	9.53	2.4	151
10354	421201	7428000	12.25	1.415	166
10355	420700	7428000	15.05	1.85	175.5
10356	420200	7428001	15.2	2.57	208
10357	419702	7428000	13.05	3.27	194
10358	419201	7428000	16.85	7.15	240
10359	418701	7428000	14.05	5.18	199.5
10360	418200	7428000	11.25	2.13	146
10361	417702	7428000	9.15	2.01	155
10362	417199	7428000	22.6	11.95	242
10363	416701	7428000	15.75	2.32	130
10364	416200	7428000	16.55	3.18	117.5
10365	415700	7427500	50.9	4.6	259
10366	416201	7427500	26.7	4.44	262
10367	416701	7427500	11.95	4.62	159
10368	417201	7427499	8.36	1.9	143.5
10369	417700	7427500	19.15	3.61	222
10370	418200	7427498	23.6	3.96	225
10371	418700	7427500	7.52	1.37	121
10372	419201	7427500	6.85	3.37	144
10373	419701	7427500	6.05	1.815	126
10374	420200	7427500	9.16	1.89	143.5
10375	420699	7427500	9.41	1.895	164
10376	421200	7427500	11.1	4.14	181.5
10377	421700	7427500	6.57	2.99	114.5
10378	420000	7426500	14.7	1.82	181.5
10379	419500	7426499	7.61	2.63	168.5
10380	419001	7426500	15	1.95	184
10381	418501	7426500	9.59	1.455	112
10382	418000	7426500	12.5	4.08	161.5
10383	417500	7426499	16.75	2.88	182
10384	417000	7426499	11.25	2.05	168.5
10385	416502	7426500	14.45	3.45	245
10386	416001	7426499	54.5	4.79	291
10387	414800	7426000	8.44	2.32	137.5
10388	415300	7426001	28	7.28	141.5

Sample	East	North	Mo	U	V
10389	415799	7426001	21.2	1.49	169
10390	416301	7426000	15	1.31	135.5
10391	416801	7426000	7.43	1.4	148
10392	417300	7426000	11.55	1.565	187
10393	417800	7426000	10.7	2.24	183
10394	418301	7426000	4.55	1.07	127.5
10395	418801	7426000	9.76	4.19	144.5
10396	418200	7425500	16.25	1.44	149
10397	417700	7425500	5.52	2.69	119
10398	417200	7425500	10	1.57	171
10399	416701	7425500	14.65	2.69	202
10400	416201	7425500	26	2.03	161
10401	415702	7425500	28.1	1.935	176.5
10402	415201	7425500	40.7	2.92	224
10403	414700	7425500	12.2	4.91	160.5
10404	414201	7425500	17	3.14	110
10405	413199	7424500	5.68	1.525	102
10406	413701	7424500	29	7.45	262
10407	414199	7424500	18.5	4.92	134.5
10408	414700	7424500	10.75	4.15	221
10409	415200	7424500	10.45	1.875	148
10410	415701	7424500	32.4	5.97	263
10411	416200	7424500	14.7	5.84	190
10412	416700	7424500	5.69	1.18	124.5
10413	417200	7424500	2.85	0.885	99.9
10414	417699	7424499	9.72	1.505	136
10415	417701	7424000	2.16	0.721	84.7
10416	417201	7424000	2.26	0.47	59.9
10417	416701	7424000	8.81	1.23	102.5
10418	416201	7424000	12.25	1.46	122
10419	415701	7424000	11.25	2.31	146
10420	415201	7424000	9.04	1.595	129.5
10421	414700	7424000	13.65	2.19	159.5
10422	414200	7424000	9.37	2.69	155
10423	413701	7424000	14.2	2.55	176.5
10424	413200	7424000	24.5	2.82	186.5

Appendix 1: JORC Code, 2012 Edition - Table 1 For exploration Target

JORC Code, 2012 Edition – Table 1 report template

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	• Soil sampling by GCM involved sampling at a 10cm depth at mostly 500m and 1 kilometre intervals. The 1 kg samples were from clear sites located by GPS in GDA94 zone 54. The sieve size used here was the ultrafine fraction (75 microns). • Historic downhole radiometric logging by Jacaranda Minerals Ltd with the data appended in Open File Reports CR 67700 CR 67692 and CR 67931 for EPMS 15236, 15234 and 15235 •
Drilling techniques	• *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	• Historic aircore drilling by Jacaranda Minerals Ltd. Details unknown. Downhole radiometric logging at 1cm intervals reported.
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.*	• No drilling sample analyses – historic radiometric logging by Jacaranda Minerals
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or*	• No resource drilling, wide spaced historic aircore for geochemical purposes.

Criteria	JORC Code explanation	Commentary
	costean, channel, etc) photography. • *The total length and percentage of the relevant intersections logged.*	
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	• The GCM samples were dried and sieved by Australian Laboratory Services prior to analyses in Perth. Sample prep code SCR-41f
Quality of assay data and laboratory tests	• *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.* • *For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.* • *Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.*	• Two analytical methods were applied, both considered the most appropriate. • MS1L-REE for rare earths • ME-MS41L multi element super trace lowest detection limit aqua regia digest ICP-MS finish. • Blanks and duplicates run by ALS.
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* • *Discuss any adjustment to assay data.*	• No GCM drilling samples.
Location of data points	• *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	• Hand held GPS.
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications*	• Sufficient to outline large scale (> 4 sq. km.) initial targets under cover.

Criteria	JORC Code explanation	Commentary
	applied. • *Whether sample compositing has been applied.*	
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	• Not applicable
Sample security	• *The measures taken to ensure sample security.*	• Delivered directly to ALS in Mount Isa by personnel.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• Results are consistent between two batches of sampling. Follow up results agreed with first pass results over the target area.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* • *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	• The results are from 100% owned Green Critical Minerals EPMs 28251 and 28253. The EPMs are subject to native title under standard conditions. • EPM 28251 has a gas pipeline easement on the eastern edge, otherwise there are no known access restrictions. Drilling is not permitted in the river channels, as is standard in Queensland. • Current Qld government policy is not to grant uranium mining leases. •
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	• Previous work by Hartz Rare Earths Pty Ltd under EPMs 25158, 25159, 25160 and 25295 was restricted to stream sediment sampling which outlined rare earths and ore element anomalism. The sources were not located. • Jacaranda Minerals Ltd conducted uranium exploration under EPMs 15234, 15235, and 15236. This culminated in a wide spaced shallow aircore drilling campaign. Radiometric logging data is used in this announcement.

Criteria	JORC Code explanation	Commentary
Geology	• *Deposit type, geological setting and style of mineralisation.*	• Structurally enhanced sediment hosted molybdenum uranium vanadium. • Intrusion related gold deposits and copper gold molybdenum porphyry with skarns.

Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*
	  ○ *easting and northing of the drill hole collar*
	  ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*
	  ○ *dip and azimuth of the hole*
	  ○ *down hole length and interception depth*
	  ○ *hole length.*
	• *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*
		• No GCM drilling.
		• Historic geochemical drilling details are provided in Jacaranda Minerals open file reports.

Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* • *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	• No GCM drilling, and historic Jacaranda aircore drilling was for geochemical sampling purposes only.
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').*	• No GCM drilling and no drill sections reported. Historic geochemical drilling was entirely vertical, and the target is flat lying. Radiometric logging intercepts are effectively true widths.
Diagrams	• *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	• Not applicable no discovery reported.
Balanced reporting	• *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of*	• Figures show the poor results and the good results. The assay and location table for all Mo U V results is appended.

Criteria	JORC Code explanation	Commentary
	Exploration Results.	
Other substantive exploration data	• *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	• Public magnetic and radiometric data sourced from the Qld government has been modelled by the GeoDiscovery Group on behalf of Green Critical Minerals.
Further work	• *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	• The company plans to conduct first pass drilling on the magnetic targets during mid 2024. The Molybdenum Uranium Vanadium targets will be followed up in more detail with surface sampling only.