

30 May 2022

New Extension of High-Grade Base Metal Mineralisation Uncovered at Gibsons

Critical Resources Limited (ASX:CRR) (“Critical Resources” or the “Company”) is pleased to advise that it has received assay results from its 12th drill hole at its 100% owned Gibsons prospect. Diamond drill hole CRR21DD_14 (“Hole 14”) has intersected zinc, lead, copper, and silver bearing zones of sulphide mineralisation within a previously untested, north-eastern area at Gibsons. The mineralisation seen in this area continues to expand the potential of the Halls Peak system.

Highlights

Hole 14

- **26.7m @ 3.43% Zn, 1.93% Pb, 10.79g/t Ag, from 75.3-102m downhole**
 - Including 7.2m @ 9.02% Zn, 5.25% Pb, 23.56g/t Ag, from 75.3 – 82.5m downhole
- **5.5m @ 6.74% Zn, 6.06% Pb, 135.78/t Ag from 141.4-146.9m downhole**
 - Including 2.33m @ 9.22% Zn, 9.86% Pb, 168.56/t Ag from 141.4 – 143.73m downhole
- **2.95m @ 15.28% Zn, 9.22% Pb, 2.01% Cu, 300.91g/t Ag, from 172.86-175.81m downhole**
 - Including 1.22m @ 25.40% Zn, 15.50% Pb, 3.46% Cu, 394.00g/t Ag, from 173.84 – 175.06m downhole
- **4m @ 3.14% Zn, 2.00% Pb, 610.50/t Ag, 2.36g/t Au from 261.5-265.5m downhole**
- **Highly anomalous gold from 248-267.5m downhole including a significant gold grade of 4.42g/t Au over 2m from 261.50-263.50m downhole**
- **Hole 14 represents a previously undrilled area, north-east of all drilling to date**
- **Strong mineralisation at depth continues to expand the potential of the Halls Peak System**
- **Cores from completed holes 15, 16 and 17 are currently being assayed at the ALS laboratory in Brisbane with results expected progressively**

Gibsons’ Mineralisation Extended

The Company is pleased to receive assays from Hole 14 at its 100% owned Halls Peak project in New South Wales. Unlike previous drilling, Hole 14 was drilled in a northerly direction, uncovering further mineralisation that has delivered significant results. This northern area is currently being drilled to further extend and understand the potential of this new area. The scale potential of the Halls Peak system continues to be uncovered, with results providing strong support for the expanded drill campaign.

Critical Resources Managing Director Alex Biggs said: "Hole 14 represents the detection of a new area of mineralisation that has not previously been explored at our Gibsons prospect. We are consistently finding these new areas of mineralisation at depth and along strike that further adds to the potential scale of the Halls Peak system. The highly successful drill program at Gibsons, combined with previous exploration and geophysical survey work warrants the expansion of our current 5,000m drilling program. We are excited to soon commence drilling at our Sunnyside prospect that was home to old time small-scale, high-grade mine workings. The Sunnyside prospect is 1.5km north-west of Gibsons. This will further add to the scale potential of Halls Peak system as a whole".

Summary of Key Polymetallic Intersections - Hole 14

- **26.7m @ 3.43% Zn, 1.93% Pb, 0.13% Cu, 10.79g/t Ag, 0.03g/t Au, from 75.3-102m downhole**
 - Including 7.2m @ 9.02% Zn, 5.25% Pb, 0.26% Cu, 23.56g/t Ag, 0.06g/t Au from 75.3 – 82.5m downhole
- **5.5m @ 6.74% Zn, 6.06% Pb, 0.17% Cu, 135.78/t Ag, 0.10g/t Au from 141.4-146.9m downhole**
 - Including 2.33m @ 9.22% Zn, 9.86% Pb, 0.25% Cu, 168.56/t Ag, 0.06g/t Au from 141.4 – 143.73m downhole
- **2.95m @ 15.28% Zn, 9.22% Pb, 2.01% Cu, 300.91g/t Ag, 0.58g/t Au from 172.86-175.81m downhole**
 - Including 1.22m @ 25.40% Zn, 15.50% Pb, 3.46% Cu, 394.00g/t Ag, 0.44g/t Au from 173.84 – 175.06m downhole
- **4m @ 3.14% Zn, 2.00% Pb, 0.16% Cu, 610.50/t Ag, 2.36g/t Au from 261.5-265.5m downhole**

Figure 1: CRR21DD_14, interval comprising samples 42676-42680 assaying 5.5m @ 6.74% Zn, 6.06% Pb, 0.17% Cu, 135.78/t Ag, 0.10g/t Au from 141.4-146.9m downhole, including 2.33m @ 9.22% Zn, 9.86% Pb, 0.25% Cu, 168.56/t Ag, 0.06g/t Au from 141.4 – 143.73m downhole (NQ core, 50mm diameter)



Figure 2: CRR21DD_014, detail from above Figure 1 of Sample (42)680 (146.51-146.90m downhole) exhibiting extensive massive sulphide – sample assayed 31.30% Zn, 18.30% Pb, 0.60% Cu, 59.30g/t Ag (NQ core, 50mm diameter)



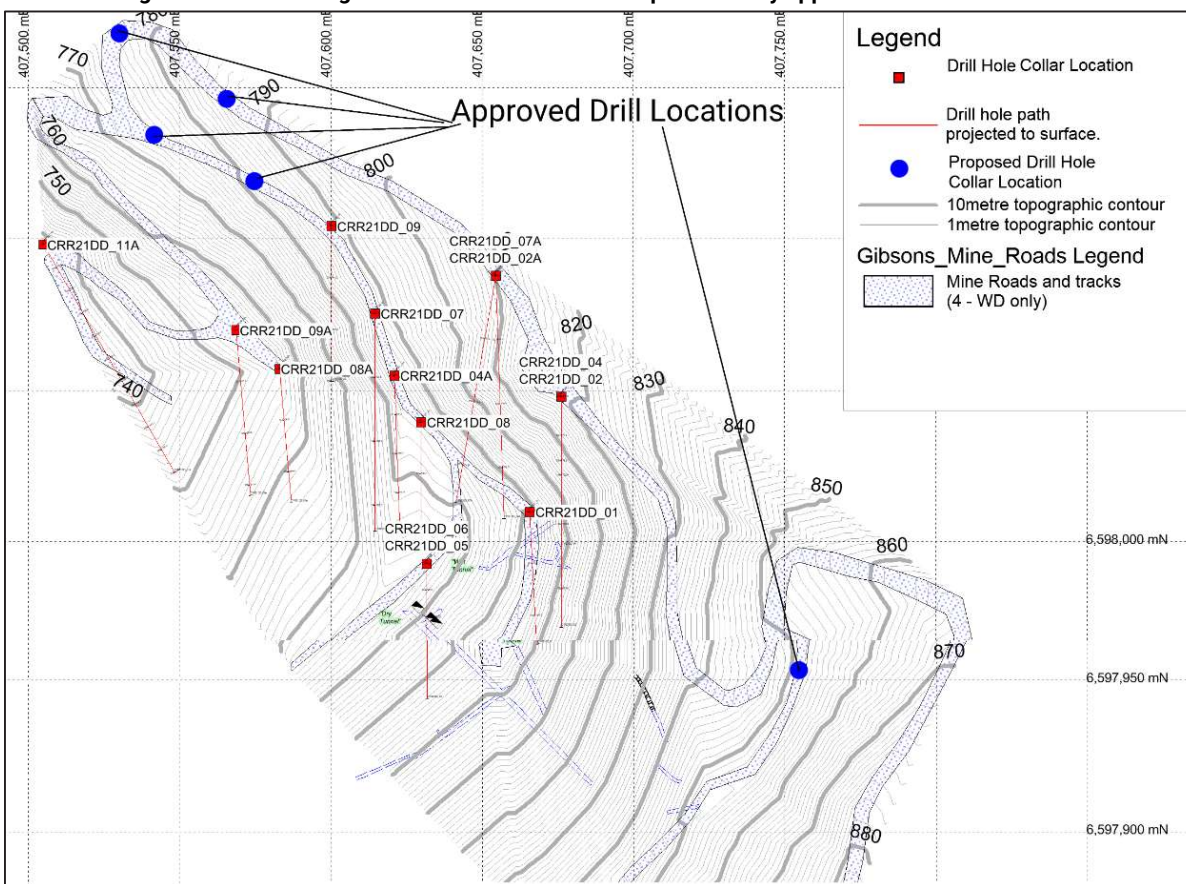
Figure 3: CRR21DD_14, interval comprising samples 42688-42691 assaying 2.95m @ 15.28% Zn, 9.22% Pb, 2.01% Cu, 300.91g/t Ag, 0.58g/t Au from 172.86-175.81m downhole, including 1.22m @ 25.40% Zn, 15.50% Pb, 3.46% Cu, 394.00g/t Ag, 0.44g/t Au from 173.84 – 175.06m downhole (NQ core, 50mm diameter)



Figure 4: CRR21DD_014, detail from above Figure 3 of Sample (42)690 (173.84-175.06m downhole) exhibiting extensive banded, massive sulphide – sample assayed 25.40% Zn, 15.50% Pb, 3.46% Cu, 394.00g/t Ag, 0.44g/t Au (NQ core, 50mm diameter)



Figure 6: Plan showing Gibsons drill collar locations plus recently approved new drill holes

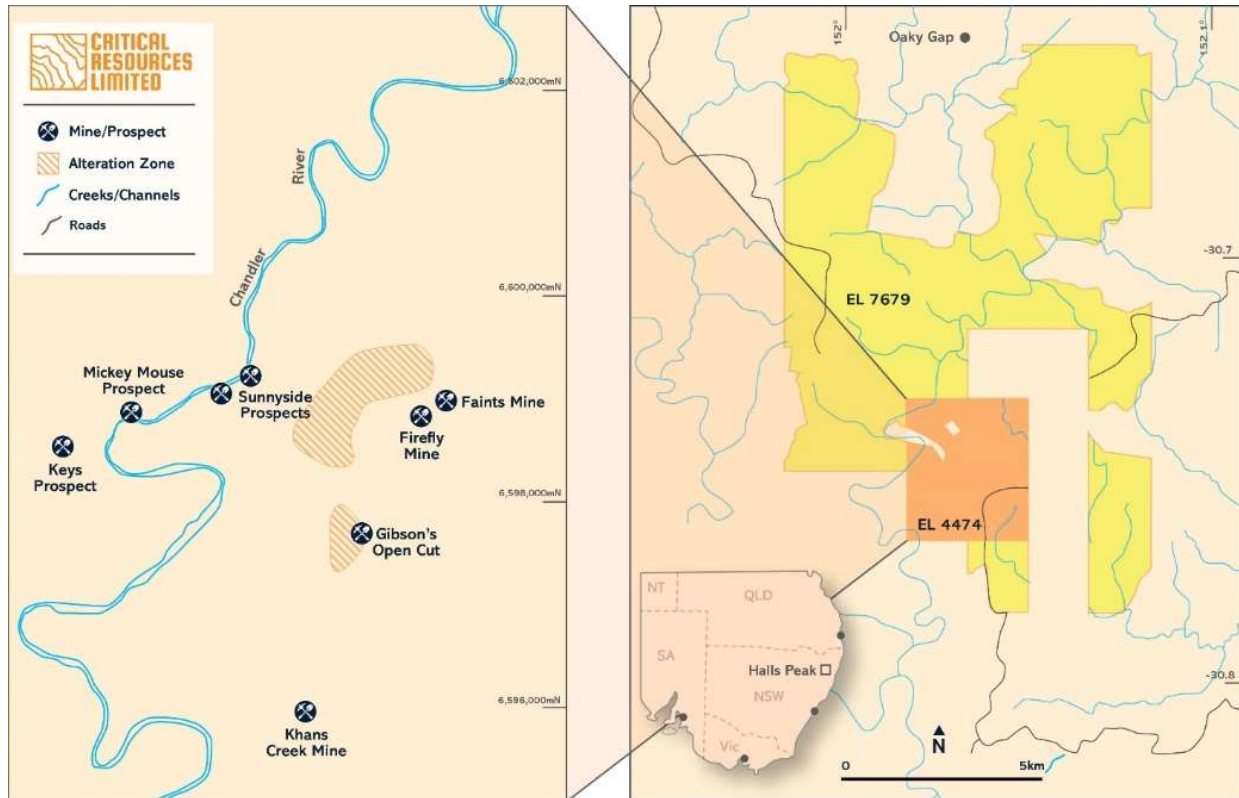


Halls Peak Project Description

The 100% owned Halls Peak project is located in New South Wales approximately 45km South-East of Armidale in the New England Fold Belt, an area well known for its mineral endowment and production. The Halls Peak massive sulphide deposits were discovered in 1896 where near surface mining extracted high-grade Zinc, Lead, Copper and Silver. Recent exploration at the Gibsons prospect has yielded excellent high-grade intersections of zinc, lead, copper and silver. Multiple geophysical targets exist across the Halls Project which form the basis for further exploration and growth of the known mineralisation extents. Multiple geophysical targets exist across the Halls Project which form the basis for further exploration and growth of the known mineralisation extents.

Halls Peak is considered to have potential to contain world class deposits similar to those already being mined in northern Australia. The project area comprises multiple historic mines and prospects including Gibsons, Sunnyside, Firefly, Faints, Khans Creek, Keys and Mickey Mouse. All current exploration activities are focused on exploration licence EL 4474 with primary targets being the Gibsons and Sunnyside prospects. A summary of the project location is shown in Figure 7.

Figure 7: Halls Peak project location



The Large Scale Potential of the Halls Peak System

Halls Peak hosts a large mineralised system with numerous widespread high-grade zinc-lead-copper-silver deposits.

The system has potential to extend beyond the boundaries defined by the historic mines and prospects plotted in Figure 7. However, these define an area of at least 14km² (3.5km south to north from Khans Creek Mine to Sunnyside Prospects and at least 5km from east of Faints Mine to Keys Prospect).

Recent drilling by the Company has confirmed base metal sulphide mineralisation extends vertically over 300m in deepest holes drilled.

The vast majority of the lateral and vertical extent has never been tested by drilling, clearly there is substantial potential for World Class Tier 1 discovery in this extremely large mineralised system.

The Halls Peak System – Dominant Mineralisation Style

Sedex Zinc-Lead-Copper-Silver deposits are interpreted by the Company's geologists to be the dominant mineralisation style discovered at Halls Peak.

Overview of Australian Sedex Deposits, extracted from Australian Pb-Zn-Ag Sedex Deposits Origins, Current Research, Exploration Guidelines, G.M. Derrick and Associates, May 2000.

"Australian Sedex Deposits" are fine-grained sediment-hosted Pb-Zn-Ag deposits which are best developed in the Mt Isa Inlier and McArthur Basin regions of northern Australia. The Mt Isa to McArthur series of deposits include Isamine, Hilton, George Fisher, Lady Loretta, Century, HYC, and Dugald River. By any standards, these are major accumulations of metal – average size is about 100mt @ +10% Pb+Zn; direct shipping grades of +50% Pb+Zn are present at Lady Loretta locally, and Ag credits range from 35g/t at Century, 60g/t at HYC to 100 to 150g/t at Isa-Hilton.

Main regional geological criteria can be described as:

- Rifting,
- Growth Faulting,
- 3rd order pyritic & carbonaceous basins and
- Basement feldspar-rich source rocks
- Most settings are intracontinental rifts or rifted margins, and deposits are best developed in the youngest of sag basins."

Significantly, the Company's geologists note that the Zn-Pb-Cu-Ag mineralisation at Halls Peak has a **diagnostic** Sedex setting within an extensional, intracontinental rift associated with growth faults, and pyritic and carbonaceous sediments in pull-apart, graben basins.

At Halls Peak there is undoubtably room for large deposits to occur since the limit of favourable horizons has not been defined. At least 3 mineralised horizons involving 8,000 metres of favourable argillites.

In summary it is felt that the possibility of commercially interesting deposits existing at Halls Peak is quite high and detailed surface exploration (geophysics, geochemistry, gossan search) of all potential host units (argillite and acid volcanoclastics) is desirable. Further work would depend on the successful delineation of targets of the order of several hundred metres length. Previous drilling results include:

Critical Resources Limited – ASX Announcements

6.37m @ 7.31% Zn, 0.89% Pb, 0.22% Cu, 10.33g/t Ag, 0.08g/t Au
5.3m @ 4.10% Zn, 1.78% Pb, 0.49% Cu, 25.17g/t Ag, 0.09g/t Au
34.3m @ 2.14% Zn, 0.83% Pb, 0.32% Cu, 7.02g/t Ag, 0.05g/t Au
(refer ASX Announcement 23 May 2022)
7.63 metres @ 0.23% Zn, 0.01% Pb, 1.15% Cu, 73.15g/t Ag, 0.01g/t Au
(refer ASX Announcement 05 April 2022)
3.6 metres @ 15.06% Zn, 8.38% Pb, 0.69% Cu, 37.51g/t Ag, 0.09g/t Au
(refer ASX Announcement dated 09 March 2022)
7.53m @ 4.20% Zn, 1.92% Pb, 0.39% Cu, 19.15g/t Ag, 0.11g/t Au
7.18m @ 3.63% Zn, 1.89% Pb, 0.77% Cu, 15.82g/t Ag, 0.09g/t Au
1.28m @ 13.5% Zn, 4.75% Pb, 0.71% Cu, 21.5g/t Ag, 0.09g/t Au
(refer ASX Announcement dated 21 February 2022)
5.30m @ 26.29% Zn, 12.49% Pb, 1.28% Cu, 49.18g/t Ag, 0.15g/t Au
5.99m @ 8.17% Zn, 4.33% Pb, 0.84% Cu, 25.36g/t Ag, 0.13g/t Au
(refer ASX announcement dated 09 February 2022)
12.45m @ 10.91% Zn 5.73% Pb, 1.15% Cu, 331.63g/t Ag and 1.50g/t Au
(refer ASX announcement dated 11 January 2022)

¹Sovereign Gold Company and Force Commodities Limited – ASX Announcements

11.3m @ 15.18% Zn, 8.02% Pb, 597g/t Ag, 1.61% Cu from hole SG-03
(refer ASX announcement dated 15 December 2016)
11.2m @ 19.71% Zn, 10.77 % Pb, 134.96 g/t Ag, 0.8% Cu from hole SG-06
(refer ASX announcement dated 29 December 2016)
7.2m @ 20.19% Zn, 7.17 % Pb, 30.93gpt Ag, 0.66% Cu from hole SG-05
(refer ASX announcement dated 29 December 2016)
5.7m @ 9.44% Zn, 7.09% Pb, 155g/t Ag, 0.53% Cu from hole SG-03
(refer ASX announcement dated 15 December 2016)

²Precious Metal Resources Limited – ASX Announcements

37.2m @ 8.7% Zn, 3.0% Pb, 85g/t Ag, 1.4% Cu from hole DDH HP 026
(refer to ASX announcement dated 03 January 2014)
7.45m @ 8.88% Zn, 3.11% Pb, 22 g/t Ag, 0.56% Cu from hole DDH HP 027
(refer ASX announcement dated 15 January 2014)

^{1,2}The information required pursuant to listing rule 5.7 is included in ASX announcement dated 08 July 2021

This announcement has been approved for release by the Board of Directors.

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EXPLORATION WORK – COMPETENT PERSONS STATEMENT

The information in this ASX Announcement that relates to Exploration Results is based on information compiled by Mr Michael Leu, a Competent Person who is a Member of the Australian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Leu is a full-time employee of Critical Resources Limited. Mr Leu has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Mr Leu consents to the inclusion in this ASX Announcement of the matters based on his information in the form and context in which it appears.

ABOUT CRITICAL RESOURCES LIMITED

Critical Resources is a base metals and lithium exploration and development focused company headquartered in Perth, Western Australia and is listed on the Australian Securities Exchange (ASX:CRR). The Company has recently been undergoing a structured process of change at the Director and Executive level. These changes mark the commencement of a renewed focus by the Company on providing shareholder value through the exploration, development and advancement of the Company's long held NSW assets, its newly acquired Lithium assets in Canada and also of its Copper assets in Oman.

FORWARD LOOKING STATEMENTS

Information included in this release constitutes forward-looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward looking words such as “may”, “will”, “expect”, “intend”, “plan”, “estimate”, “anticipate”, “continue”, and “guidance”, or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licences and permits and diminishing quantities or grades of reserves, political and social risks, changes to the regulatory framework within which the Company operates or may in the future, environmental conditions including extreme weather conditions, recruitment and retention of personnel, industrial relations issues and litigation.

Forward looking statements are based on the Company and its management's good faith assumptions relating to the financial, market, regulatory and other relevant environments that will exist and affect the Company's business and operations in the future. The Company does not give any assurance that the assumptions on which forward looking statements are based will prove to be correct, or that the Company's business or operations will not be affected in any material manner by these or other factors not foreseen or foreseeable by the Company or management or beyond the Company's control.

Although the Company attempts and has attempted to identify factors that would cause actual actions, events or results to differ materially from those disclosed in forward looking statements, there may be other factors that could cause actual results, performance, achievements or events not to be as anticipated, estimated or intended, and many events are beyond the reasonable control of the Company. Accordingly, readers are cautioned not to place undue reliance on forward looking statements. Forward looking statements in these materials speak only at the date of issue. Subject to any continuing obligations under applicable law or any relevant stock exchange listing rules, in providing this information the Company does not undertake any obligation to publicly update or revise any of the forward-looking statements or to advise of any change in events, conditions or circumstances on which any such statement is based.

NO NEW INFORMATION

Except where explicitly stated, this announcement contains references to prior exploration results, all of which have been cross-referenced to previous market announcements made by the Company. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements.

Appendix 1: CRRDD21_14 Assay Results

From	To	Interval	Rec	Assays					
(m)	(m)	(m)	(m)	Sample No.	Ag (ppm)	Au (ppm)	Cu (%)	Pb (%)	Zn (%)
0.00	2.00	2.00	0.5						
2.00	6.46	4.46	2.26						
6.46	11.00	4.54	3.34						
11.00	13.00	2.00	1.9	42617	6.64	0.08	0.002	0.019	0.002
13.00	15.00	2.00	1.9	42618	7.68	0.08	0.009	0.028	0.004
15.00	17.00	2.00	1.5	42619	14.55	0.05	0.026	0.043	0.022
17.00	19.00	2.00	1.9	42620	12.05	0.06	0.012	0.037	0.042
19.00	21.00	2.00	1.8	42621	7.75	0.03	0.009	0.026	0.026
21.00	23.00	2.00	1.5	42622	9.56	0.07	0.010	0.032	0.028
23.00	25.00	2.00	1.1	42623	11.4	0.01	0.009	0.032	0.029
25.00	27.00	2.00	1.8	42624	10.55	0.05	0.010	0.034	0.026
27.00	29.00	2.00	1.7	42625	17.1	0.06	0.011	0.039	0.036
29.00	31.00	2.00	1.9	42626	7.49	0.01	0.007	0.036	0.031
31.00	33.00	2.00	1.9	42627	6.91	0.005	0.006	0.034	0.033
33.00	35.00	2.00	1.9	42628	6.58	0.005	0.006	0.028	0.016
35.00	37.00	2.00	2	42629	6.43	0.03	0.006	0.024	0.017
37.00	39	2.00	1.8	42630	9.23	0.03	0.010	0.058	0.079
39.00	41	2.00	1.7	42631	14	0.01	0.010	0.070	0.110
41.00	43.00	2.00	1.9	42632	14.5	0.01	0.009	0.048	0.075
43.00	45.00	2.00	2	42633	23.5	0.02	0.011	0.095	0.154
45.00	47.00	2.00	2	42634	20	0.02	0.012	0.108	0.165
47.00	49.00	2.00	1.9	42635	22.1	0.01	0.018	0.203	0.358
49.00	51.00	2.00	2.00	42636	24.3	0.03	0.034	0.372	0.665
51.00	53.00	2.00	2.00	42637	14.85	0.02	0.017	0.178	0.315
53.00	55.80	2.80	2.40	42638	37.7	0.04	0.028	0.064	0.088
55.80	57.6	1.80	1.80	42639	179	0.11	0.164	0.712	1.625
57.60	62.60	5.00	0.40						
62.60	64.60	2.00	1.70	42640	1.55	0.005	0.004	0.006	0.027
64.60	66.30	1.70	1.40						
66.30	75.3	9.00	3.10	42641	3.45	0.005	0.011	0.081	0.179
75.30	76.50	1.20	0.70	42642	50.2	0.04	0.900	11.550	19.400
76.50	78.60	2.10	0.50	42643	3.82	0.03	0.027	0.193	0.631
78.60	79.80	1.20	0.50	42644	59.3	0.05	0.595	18.300	31.300
79.80	82.50	2.70	1.90	42645	11.2	0.1	0.017	0.587	1.050
82.50	84.50	2.00	2.00	42646	12.3	0.05	0.01375	0.232	0.406
84.50	86.30	1.80	1.80	42647	1.98	0.01	0.004	0.015	0.510
86.30	90.00	3.70	2.40	42648	3.85	0.04	0.013	0.067	0.455
90.00	92.90	2.90	2.20	42649	3.73	0.06	0.032	0.151	0.633
92.90	94.60	1.70	1.40	42650	2.23	0.02	0.018	0.214	0.404
94.60	96.60	2.00	1.90	42651	16.8	0.04	0.420	3.650	5.950
96.60	98.40	1.80	1.50	42652	4.64	0.01	0.092	1.445	2.330
98.40	99.50	1.10	0.90	42653	3.34	0.01	0.046	0.946	1.205
99.50	99.77	0.27	0.27	42654	36.7	0.01	0.368	4.000	6.240
99.77	102.00	2.23	2.23	42655	2.67	0.01	0.037	0.181	0.670
102.00	104.00	2.00	2.00	42656	1.33	0.005	0.006	0.011	0.123
104.00	106.00	2.00	2.00	42657	1.86	0.03	0.006	0.008	0.055
106.00	108.00	2.00	2.00	42658	0.34	0.005	0.001	0.004	0.045
108.00	110.00	2.00	2.00	42659	0.34	0.01	0.002	0.010	0.049
110.00	112.30	2.30	2.30	42660	1.14	0.05	0.005	0.076	0.138
112.30	114.50	2.20	2.20	42661	8.06	0.08	0.019	0.276	0.500
114.50	116.50	2.00	2.00	42662	7.12	0.05	0.093	0.388	0.604
116.50	118.30	1.80	1.80	42663	10.15	0.13	0.019	0.161	0.313
118.30	119.40	1.10	1.10	42664	157	0.4	0.796	7.190	11.800
119.40	121.40	2.00	2.00	42665	57.5	0.19	0.131	2.290	4.110
121.40	123.40	2.00	2.00	42666	23.6	0.12	0.031	0.455	0.812
123.40	125.40	2.00	2.00	42667	9.33	0.05	0.024	0.130	0.088
125.40	127.4	2.00	2.00	42668	12.1	0.04	0.019	0.479	0.733
127.40	129.40	2.00	2.00	42669	1.49	0.04	0.017	0.012	0.317
129.40	131.40	2.00	2.00	42670	6.61	0.03	0.031	0.301	0.551
131.40	133.40	2.00	2.00	42671	7.63	0.06	0.063	0.309	0.533
133.40	135.40	2.00	2.00	42672	6.6	0.07	0.070	0.403	0.626
135.40	137.40	2.00	2.00	42673	9.21	0.05	0.163	0.384	0.881
137.40	139.4	2.00	2.00	42674	5.25	0.06	0.067	0.174	0.323
139.40	141.4	2.00	2.00	42675	3.16	0.06	0.015	0.088	0.153

141.40	142.69	1.29	1.29	42676	18.25	0.05	0.053	0.963	1.340
142.69	143.73	1.04	1.04	42677	355	0.07	0.506	20.900	19.000
143.73	145.73	2.00	2.00	42678	14.55	0.08	0.037	0.521	1.030
145.73	146.51	0.78	0.78	42679	30.1	0.16	0.058	0.834	2.370
146.51	146.90	0.39	0.39	42680	773	0.31	0.522	22.200	29.900
146.90	148.90	2.00	2.00	42681	5.72	0.06	0.005	0.020	0.033
148.90	151.00	2.10	2.10						
151.00	153.00	2.00	2.00	42682	9.9	0.07	0.010	0.037	0.046
153.00	155.00	2.00	2.00						
155.00	157.00	2.00	2.00	42683	9.36	0.11	0.009	0.023	0.028
157.00	161.00	4.00	4.00						
161.00	163.00	2.00	2.00	42684	96	0.1	0.032	0.056	0.100
163.00	165.00	2.00	2.00						
165.00	167.00	2.00	2.00	42685	11.35	0.18	0.016	0.028	0.047
167.00	169.00	2.00	2.00						
169.00	171.00	2.00	2.00	42686	21.1	0.41	0.020	0.077	0.190
171.00	172.86	1.86	1.86	42687	12.45	0.28	0.027	0.072	0.171
172.86	173.37	0.51	0.51	42688	447	1.15	1.825	10.050	16.800
173.37	173.84	0.47	0.47	42689	49	0.71	0.157	0.399	0.698
173.84	175.06	1.22	1.22	42690	394	0.44	3.460	15.500	25.400
175.06	175.81	0.75	0.75	42691	208	0.35	0.957	3.950	6.930
175.81	178.00	2.19	2.19	42692	17.65	0.24	0.051	0.204	0.354
178.00	180.00	2.00	2.00	42693	5.83	0.25	0.013	0.020	0.024
180.00	182.00	2.00	2.00	42694	8.41	0.17	0.027	0.037	0.069
182.00	184.00	2.00	2.00	42695	7.63	0.08	0.254	0.076	0.181
184.00	186.00	2.00	2.00	42696	5.21	0.04	0.046	0.032	0.039
186.00	188.00	2.00	0.42	42697	4.51	0.12	0.019	0.056	0.079
188.00	190.00	2.00	2.00	42698	4.07	0.11	0.007	0.016	0.032
190.00	191.35	1.35	1.35	42699	1.86	0.06	0.004	0.013	0.029
191.35	192.60	1.25	1.25	42700	0.75	0.02	0.002	0.005	0.012
192.60	194.00	1.40	1.40	42701	0.73	0.02	0.002	0.007	0.011
194.00	196.00	2.00	2.00	42702	0.58	0.01	0.002	0.005	0.010
196.00	198.00	2.00	2.00	42703	0.75	0.02	0.003	0.005	0.012
198.00	200.00	2.00	2.00	42704	1.02	0.01	0.002	0.004	0.011
200.00	202.00	2.00	2.00	42705	0.51	0.01	0.002	0.003	0.006
202.00	204.00	2.00	2.00	42706	0.74	0.005	0.003	0.011	0.022
204.00	205.80	1.80	1.80	42707	0.56	0.005	0.002	0.003	0.009
205.80	208.00	2.20	2.20	42708	0.7	0.01	0.004	0.005	0.011
208.00	210.00	2.00	2.00	42709	0.54	0.01	0.002	0.005	0.011
210.00	212.00	2.00	2.00	42710	3.65	0.08	0.011	0.037	0.067
212.00	214.00	2.00	2.00	42711	8.08	0.03	0.108	0.393	0.664
214.00	216.00	2.00	2.00	42712	6.28	0.04	0.0421	0.193	0.312
216.00	218.00	2.00	2.00	42713	2.4	0.03	0.00216	0.00589	0.0142
218.00	220.00	2.00	2.00	42714	5.5	0.01	0.002	0.005	0.010
220.00	222.00	2.00	2.00	42715	8.85	0.03	0.003	0.011	0.018
222.00	224.00	2.00	2.00	42716	4.47	0.02	0.005	0.011	0.019
224.00	226.00	2.00	2.00	42717	5.17	0.03	0.010	0.012	0.021
226.00	228.00	2.00	2.00	42718	7.49	0.03	0.015	0.024	0.078
228.00	230.00	2.00	2.00	42719	8.56	0.05	0.017	0.031	0.074
230.00	232.00	2.00	2.00	42720	9.29	0.06	0.007	0.013	0.016
232.00	234.00	2.00	2.00	42721	11.35	0.11	0.071	0.162	0.283
234.00	236.00	2.00	2.00	42722	6.16	0.08	0.029	0.084	0.152
236.00	238.00	2.00	2.00	42723	6.03	0.06	0.078	0.177	0.363
238.00	240.00	2.00	2.00	42724	4.84	0.08	0.047	0.112	0.291
240.00	242.00	2.00	2.00	42725	13.5	0.09	0.275	0.295	0.941
242.00	244.00	2.00	2.00	42726	8.04	0.16	0.012	0.037	0.058
244.00	246.00	2.00	2.00	42727	2.51	0.08	0.012	0.030	0.036
246.00	248.00	2.00	2.00	42728	3.25	0.09	0.024	0.095	0.179
248.00	250.00	2.00	2.00	42729	3.55	0.13	0.005	0.008	0.008
250.00	251.40	1.40	1.40	42730	6.76	0.33	0.024	0.125	0.213
251.40	252.90	1.50	1.50	42731	1.5	0.1	0.008	0.019	0.017
252.90	254.10	1.20	1.20	42732	2	0.16	0.009	0.026	0.027
254.10	256.00	1.90	1.90	42733	7.5	0.11	0.035	0.111	0.235
256.00	258.30	2.30	2.30	42734	9.8	0.1	0.046	0.174	0.278
258.30	259.50	1.20	1.20	42735	19.25	0.15	0.017	0.042	0.127
259.50	261.50	2.00	2.00	42736	40.5	0.75	0.015	0.070	0.150
261.50	263.50	2.00	2.00	42737	1085	4.42	0.128	2.210	3.350
263.50	265.50	2.00	2.00	42738	136	0.3	0.188	1.790	2.920
265.50	267.50	2.00	2.00	42739	76.3	0.24	0.012	0.108	0.176
267.50	269.40	1.90	1.90						
269.40	271.40	2.00	2.00						

271.40	273.40	2.00	2.00						
273.40	275.40	2.00	2.00						
275.40	277.40	2.00	2.00						
277.40	279.40	2.00	2.00						
279.40	281.40	2.00	2.00						
281.40	283.40	2.00	2.00						
283.40	285.40	2.00	2.00						
285.40	287.40	2.00	2.00						
287.40	300.30	12.90	12.90						

Appendix 2: JORC Table 1 –CRRDD21_14 Exploration Results

1.1 Section 1: Sampling Techniques and Data

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

Criteria	JORC-Code Explanation	Commentary
Sampling techniques	<i>Nature and quality of sampling (e.g., 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.</i>	<ul style="list-style-type: none"> • Oriented NQ core was cut in half using a diamond saw, with a half core sent for assay and half core retained. • No other measurement tools other than directional survey tools have been used in the holes at this stage.
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	<ul style="list-style-type: none"> • Oriented core was placed V-rail and a consistent cut-line drawn along core to ensure cutting (halving) of representative samples
	<i>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 (e.g., '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 (e.g., submarine nodules) may warrant disclosure of detailed information.</i>	<ul style="list-style-type: none"> • Core sample interval was based in logged mineralisation • Determination of mineralisation has been based on geological logging and photo analysis. • Diamond Core drilling was used to obtain 3m length samples from the barrel which are then marked in one meter intervals based on the drillers core block measurement. • Assay samples will be selected based on geological logging boundaries or on the nominal meter marks. • Samples will be dispatched to an accredited laboratory (ALS) in Brisbane, Australia for sample preparation and shipment to analysis
Drilling techniques	<i>Drill type (e.g., core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g., 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).</i>	<ul style="list-style-type: none"> • NQ2 diamond double tube coring by Sandvik DE710 rig was used throughout the hole. • Core orientation was carried out by the drilling contractor.

Criteria	JORC-Code Explanation	Commentary
Drill sample recovery	<i>Method of recording and assessing core and chip sample recoveries and results assessed.</i>	<ul style="list-style-type: none"> • Lithological logging, photography • Core samples were measured with a standard tape within the core trays. Length of core was then compared to the interval drilled, and any core loss was attributed to individual rock units based on the amount of fracturing, abrasion of core contacts, and the conservative judgment of the core logger. Results of core loss are discussed below.
	<i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i>	<ul style="list-style-type: none"> • Experienced driller contracted to carry out drilling. • In broken ground the driller produced NQ core from short runs to maximise core recovery. • Core was washed before placing in the core trays.
	<i>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.</i>	<ul style="list-style-type: none"> • Core was assessed by eye before cutting to ensure representative sampling. • See "Aspects of the determination of mineralisation that are Material to the Public Report" above.
Logging	<i>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.</i>	<ul style="list-style-type: none"> • Core samples were not geotechnically logged. • Core samples have been geologically logged to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.
	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i>	<ul style="list-style-type: none"> • The core logging was qualitative in nature. • All core was photographed
	<i>The total length and percentage of the relevant intersections logged.</i>	<ul style="list-style-type: none"> • Total depth of the hole was 300.3m • 100% of the relevant intersections were logged.
Sub-sampling techniques and sample preparation	<i>If core, whether cut or sawn and whether</i>	<ul style="list-style-type: none"> • Oriented core was placed V-rail and a consistent cut-line drawn along core to ensure cutting (halving) of representative samples • Oriented NQ core was cut in half using a diamond saw, with a half core sent for assay and half core retained. • Core sample intervals were based in logged mineralisation • No duplicates or second half-sampling
	<i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i>	
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i>	
	<i>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.</i>	

Criteria	JORC-Code Explanation	Commentary
	<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	<ul style="list-style-type: none"> • <i>Appropriate method: oriented NQ core cut in half using a diamond saw, with a half core sent for assay and half core retained.</i>
Quality of assay data and laboratory tests	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	<ul style="list-style-type: none"> • Assays methods appropriate for style of mineralisation: ME-MS61 0.25g sample for 48 Elements and Gold by method Au-AA25 30g sample. Samples have been sent to highly accredited Australian Laboratory Services (ALS)
	<i>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.</i>	
	<i>Nature of quality control procedures adopted (e.g., standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e., lack of bias) and precision have been established.</i>	
Verification of sampling and assaying	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	<ul style="list-style-type: none"> • <i>No independent verification completed at this stage</i>
	<i>The use of twinned holes.</i>	<ul style="list-style-type: none"> • <i>The reported hole is not a twin of any previous hole</i>
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	<ul style="list-style-type: none"> • <i>Core measured, photographed and logged by geologists. Digitally recorded plus back-up records.</i>
	<i>Discuss any adjustment to assay data.</i>	<ul style="list-style-type: none"> • <i>Assay data presented in this report</i>
Location of data points	<i>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.</i>	<ul style="list-style-type: none"> • <i>Drill collars recorded with Garmin GPS that has an accuracy in the order of ± 3 metres for location. A registered surveyor will be contracted to accurately survey all drill collars at completed of drill program.</i>
	<i>Specification of the grid system used.</i>	
	<i>Quality and adequacy of topographic control.</i>	
Data spacing and distribution	<i>Data spacing for reporting of Exploration Results.</i>	<ul style="list-style-type: none"> • <i>MGA94 (Zone 56)</i> • <i>Topographic control based on Department of Lands digital terrain model.</i>
	<i>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and</i>	

Criteria	JORC-Code Explanation	Commentary
	<p><i>Ore Reserve estimation procedure(s) and classifications applied.</i></p> <p><i>Whether sample compositing has been applied.</i></p>	<ul style="list-style-type: none"> • Not relevant to current drilling. • Not relevant to current drilling. • Core sample intervals were based in logged mineralisation and no sample compositing applied. Reporting of final results includes many weighted average- compositing of assay data.
Orientation of data in relation to geological structure	<p><i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known considering the deposit type</i></p> <p><i>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.</i></p>	<ul style="list-style-type: none"> • The orientation of the mineralisation is unknown. The drilling program is aimed at determining orientation of the base of mineralisation by drilling three holes. • It is uncertain whether sampling bias has been introduced, or whether the thickness drilled is a true thickness.
Sample security	<i>The measures taken to ensure sample security.</i>	<ul style="list-style-type: none"> • Core samples will be stored at the Gibsons core yard before express overnight freight to Australian Laboratory Services Pty. Ltd. (ALS) Brisbane. Sample movements and security documented by ALS Chain of Custody.
Audits or reviews	<i>The results of any audits or reviews of sampling techniques and data.</i>	<ul style="list-style-type: none"> • Not undertaken at this stage

2 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.	<ul style="list-style-type: none">• The Halls Peak Project comprises granted Exploration Licenses EL 4474 and EL 7679, located in north-eastern NSW and covering an area of about 84km².• There are no known impediments to operate on the tenements														
	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.		<ul style="list-style-type: none">• Tenure is current and in good standing													
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	<ul style="list-style-type: none">• Exploration for base metals and gold have been conducted at Halls Peak since 1896 when massive sulphide deposits were discovered by prospectors. There was some small-scale mining of deposits of copper, lead, zinc and silver ore on the east side of the Chandler River until 1916. According to Report 52 – The Geological Survey of New South Wales “In 1965, 1,600 tons of ore were mined to give 263 tons of lead, 450 tons of zinc, 46.3 tons of copper and 12523 oz of silver”. Following this several exploration campaigns were conducted until the mid-1980’s for massive sulphides and silver by major mining companies such as BHP Co. Ltd., Mt. Isa Mines Ltd., The Zinc Corporation Ltd., Halls Peak Australia Limited and Allstate Exploration N.L. but most work was hindered as none were able to secure tenure to the whole area. All of these work programs comprising drilling, geochemistry and geophysics have resulted in an immense body of data.														
Geology	Deposit type, geological setting and style of mineralisation.	<ul style="list-style-type: none">• Halls Peak is in the southern part of the New England Orogen, a belt of continental crust uplifted to form a mountainous region. Mineralisation is hosted in the Permian Halls Peak Volcanics, a sequence of felsic volcanic, volcanoclastic and sedimentary rocks that have been deformed and metamorphosed due to their formation in a rift setting. Sulphide mineralisation is stratiform with several massive sulphide bodies within broad zones of disseminated and stockwork sulphides. Massive sulphide bodies are generally moderate to steeply dipping and up to tens of metres across. The massive sulphides are often associated with sulphidic shale and siltstone within zones of stockwork and disseminated sulphides in sericite-quartz altered rocks. Sulphide mineralisation is dominated by sphalerite and galena, with minor amounts of chalcopyrite, pyrite and tetrahedrite. Metal grades in massive sulphides can average 3.5% Cu, 8% Pb, 24% Zn, 260g/t Ag and 0.42g/t Au.														
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	<table><tr><th>Hole ID</th><th>Easting</th><th>Northing</th><th>RL</th><th>Azimuth</th><th>Dip</th><th>To Depth (m)</th></tr><tr><td>CRR21DD_14</td><td>407674.2</td><td>6598047.3</td><td>818.2</td><td>3</td><td>60</td><td>300.3</td></tr></table>	Hole ID	Easting	Northing	RL	Azimuth	Dip	To Depth (m)	CRR21DD_14	407674.2	6598047.3	818.2	3	60	300.3
	Hole ID		Easting	Northing	RL	Azimuth	Dip	To Depth (m)								
	CRR21DD_14		407674.2	6598047.3	818.2	3	60	300.3								
easting and northing of the drill hole collar																
	elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar															

Criteria	JORC-Code Explanation	Commentary
	<i>dip and azimuth of the hole</i>	<ul style="list-style-type: none"> • Not relevant
	<i>down hole length and interception depth</i>	
	<i>hole length.</i>	
	<i>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.</i>	
Data aggregation methods	<i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g., cutting of high grades) and cut-off grades are usually Material and should be stated.</i>	<ul style="list-style-type: none"> • Uncut
	<i>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.</i>	
	<i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i>	
Relationship between mineralisation widths and intercept lengths	<i>These relationships are particularly important in the reporting of Exploration Results.</i>	<ul style="list-style-type: none"> • True width not currently known. All lengths are down-hole lengths and not true width. • The precise geometry is not currently known but is being tested by the planned drilling, with diamond drill hole azimuths designed to drill normal to the interpreted mineralised structure. • Down-hole length reported, true width not known.
	<i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i>	
	<i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g., 'down hole length, true width not known').</i>	
Diagrams	<i>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.</i>	<ul style="list-style-type: none"> • The drilling is aimed at clarifying the structure of the mineralisation.

Criteria	JORC-Code Explanation	Commentary
Balanced reporting	<i>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 Exploration Results.</i>	<ul style="list-style-type: none"> • Representative reporting of all relevant grades is provided in tables to avoid misleading reporting of Exploration Results.
Other substantive exploration data	<i>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.</i>	<ul style="list-style-type: none"> • Overview of exploration data leading to selection of drill targets provided. • There were no deleterious elements identified.
Further work	<i>The nature and scale of planned further work (e.g., tests for lateral extensions or depth extensions or large-scale step-out drilling).</i>	<ul style="list-style-type: none"> • Drill program totalling 6,400m to both verify historical drilling at Halls Peak but also to test deeper VTEM targets is underway.