## **ASX Announcement**



## **Additional Results for Carlow Drilling**

# Highlights

Following the announcement on 10 August 2022 in which the Company stated that the review of recently received drill results from the 100%-owned Greater Carlow Castle Project (the "Carlow Project") was incomplete, the Company has now completed its review of the new drill results and is pleased to provide investors with additional information which is outlined below. Assay results are pending for drill hole ARC 395 and ARC396 and a further announcement of the assay results for those drill holes will be made when those assays are received.

- Additional drill results for the Carlow Project have been received
- Crosscut Zone drill results have identified an offset mineralised load to the west, and mineralisation remains open to the north
- Crosscut Zone results include:
  - o 8m @ 2.44% Cu, 0.24g/t Au, 0.868% Co from 97m Hole ARC403
    - Including 3m @ 3.41% Cu, 0.29g/t Au, 1.257% Co from 100m
  - 2m @ 4.71% Cu, 1.01g/t Au, 0.008% Co, from 108m Hole ARC404
    - Including 1m @ 8.78% Cu, 1.91g/t Au, 0.011% Co from 109m
- Carlow West Zone drill results have intersected two areas of mineralisation, one being the Carlow West Zone, while the other a new northwest trending structure
- Carlow West Zone results include;
  - o 9m @ 2.07g/t Au, 1.22% Cu, 0.050% Co from 95m Hole ARC398
    - Including 2m @ 5.3g/t Au, 4.26% Cu, 0.097% Co from 99m
    - Including 1m @ 5.33g/t Au, 1.67% Cu, 0.044% Co from 103m
  - o 3m @ 7.57g/t Au, 1.71% Cu, 0.140% Co from 158m Hole ARC401
    - Including 1m @ 19.70g/t Au, 3.97% Cu, 0.274% Co from 160m
  - o 2m @ 7.07g/t Au, 2.89% Cu, 0.136% Co from 158m Hole ARC402
    - Including 1m @ 12.75gt/ Au, 3.89% Cu, 0.208% Co from 159m
  - o 12m @ 2.43g/t Au, 0.53% Cu, 0.117% Co from 137m Hole ARC399
    - Including 1m @ 3.11g/t Au, 1.06% Cu, 0.426% Co from 143m
    - Including 2m @ 8.70g/t Au, 1.02% Cu, 0.233% Co from 146m
  - o 8m @ 2.44g/t Au, 0.24% Cu, 0.868% Co from 97m Hole ARC403
    - Including 3m @ 3.41g/t Au, 0.29% Cu, 1.257% Co from 100m
  - $\circ~~$  7m @ 1.93g/t Au, 0.41% Cu, 0.011% Co from 112m Hole ARC403
    - Including 1m @ 6.75gt/ Au, 0.57% Cu, 0.020% Co from 118m
- Drill results are in line with management expectations and are expected to contribute to the upcoming new Carlow Project mineral resource estimate. Assay results for holes ARC

395 and 396 are yet to be received and will therefore not be included in the upcoming new Carlow Project mineral resource calculation.

### **Crosscut and Carlow West Zones**

The Crosscut Zone has been interpreted to be a series of north-south striking, high-grade repeating en echelon structures constrained by northwest striking bounding structures. These northwest structures appear to be penetrative structures that cut through the Carlow East Zone.

These structures trend to the north, continuing through the silicified hills and into the plains as shown in Figure 1.

Drill holes ARC403 and ARC404 have tested northern extensions of the Crosscut Zone and intersected grade, confirming that mineralisation continues and is open to the north of the Crosscut Zone.

This intersection confirms that the mineralised envelops had 'stepped' over to the west, in true *en echelon* form.

Additional drilling is proposed to follow this northwest structure.

Drill collars are shown in Figure 1 along with the structures to the north of Crosscut.

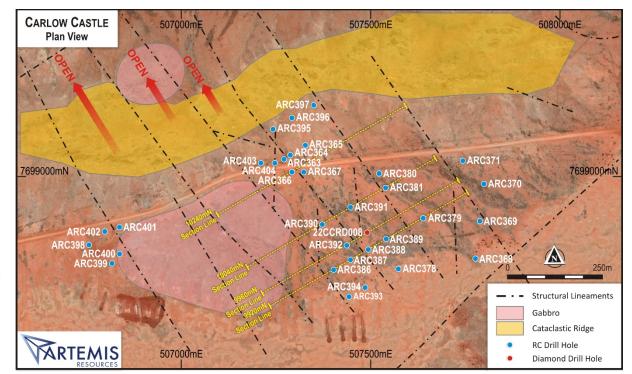


Figure 1: Location of drill collars for ARC393 to ARC404. Of particular interest is the location of the mineralisation in holes ARC403 and 404.

# Table 1: Significant Intersections for the holes drilled in the Crosscut Zone of the Carlow Project deposit.Intersections cut on Cu% 0.3%, 2m internal dilution.

HoleID		From (m)	To (m)	Downhole Interval (m)	Cu (%)	Au (g/t)	Co (%)
ARC393	NSI						
ARC394		23	29	6	0.44	0.05	0.014
ARC395	Assays Pending						
ARC396	Assays Pending						
ARC397	NSI						
ARC403		76	78	2	0.70	0.16	0.011
		97	105	8	2.44	0.24	0.868
	Including	100	103	3	3.41	0.29	1.257
		112	119	7	1.93	0.41	0.011
	Including	118	119	1	6.75	0.57	0.020
		125	126	1	0.64	0.34	0.036
ARC404		108	110	2	4.71	1.01	0.008
	Including	109	110	1	8.78	1.91	0.011

Holes drilled in the Carlow West Zone have also returned with outstanding results, with these results shown in Table 2 and the collar position shown in Figure 1.

Drilling in this zone appears to be intersecting two zones. Holes ARC398, ARC399 and ARC400 intersected mineralisation related to the Carlow West Zone, while ARC401 and ARC402 have identified a second new mineralised northwest trending structure, that parallels the Crosscut Zone and cuts through the Carlow West Zone.

Further drilling is warranted to test this structure.

Table 2: Significant Intersections for the holes drilled in the Carlow West Zone of the Carlow Project deposit.Intersections cut on Au 0.5g/t, 2m internal dilution.

HoleID ARC39
ARC39
ARC40 ARC40
ARC40

				Downhole			
		From	То	Interval			
HoleID	Comment	(m)	(m)	(m)	Au (g/t)	Cu (%)	Co (%)
ARC398		13	16	3	2.57	1.01	0.088
	Including	13	15	2	3.58	1.46	0.113
		30	33	3	0.69	0.21	0.195
		89	90	1	0.91	0.53	0.101
		95	104	9	2.07	1.22	0.05
	Including	99	101	2	5.30	4.26	0.097
	Including	103	104	1	5.33	1.67	0.044
		124	125	1	0.56	0.20	0.007
		128	129	1	1.84	0.06	0.023
		132	133	1	0.59	0.29	0.016
ARC399		110	112	2	4.03	1.98	0.155
	Including	110	111	1	5.39	2.70	0.238
		129	130	1	0.50	0.58	0.518
		137	149	12	2.43	0.53	0.117
	Including	143	144	1	3.11	1.06	0.426
	Including	146	148	2	8.70	1.02	0.233
		157	162	5	4.44	0.74	0.212
		165	168	3	0.79	0.16	0.095
		175	176	1	1.49	0.13	0.038
		183	184	1	0.53	0.14	0.032
ARC400		69	71	2	0.67	0.42	0.011
ARC401		42	44	2	0.57	0.85	0.007
		59	60	1	0.66	1.54	0.016
		120	122	2	0.54	2.77	0.012
		158	161	3	7.51	1.71	0.14
	Including	160	161	1	19.70	3.97	0.274
ARC402		93	94	1	1.19	0.62	0.072
		106	108	2	1.10	2.18	0.336
		150	151	1	0.92	0.02	0.069
		158	160	2	7.07	2.89	0.136
	Including	159	160	1	12.75	3.89	0.208

HoleID	Туре	Easting GDA94	Northing GDA94	RL (m)	Dip	Azimuth GDA	Total Depth (m)
ARC393	RC	507440.38	7698683	30.97	-61.01	238.12	156
ARC394	RC	507483.58	7698707.6	30.69	-61.08	238.94	150
ARC395	RC	507240.97	7699124.1	41.96	-60.46	243.67	145
ARC396	RC	507290.65	7699153.3	44.24	-60.58	240.63	168
ARC397	RC	507348.82	7699187.5	46.3	-61.43	243.79	160
ARC398	RC	506760	7698820	37.2	-60.37	179.29	162
ARC399	RC	506820	7698772	36.1	-59.41	180.77	192
ARC400	RC	506840	7698796	36.5	-59.35	180.3	162
ARC401	RC	506840	7698866	38.6	-58.57	179.22	180
ARC402	RC	506800	7698856	38.8	-57.65	180.1	186
ARC403	RC	507209	7699036	39.9	-56.4	242.97	150
ARC404	RC	507247	7699035	38.4	-58.2	241.26	222

Table 3: List of holes collars

Alastair Clayton, Executive Director commented – "These results from holes designed to test for further extensions of the known mineralised footprint at Crosscut and Carlow West are very pleasing and we look forward to completing and releasing the new Carlow Project resource model in the near future."

For more information, please visit www.artemisresources.com.au

## **COMPETENT PERSONS STATEMENT:**

The information in this announcement that relates to Exploration Results and Exploration Targets is based on information compiled or reviewed by Mr. Steve Boda, who is a Member of the Australasian Institute Geoscientists. Mr. Boda is an employee of Artemis Resources Limited. Mr. Boda has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration 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, Mineral Resources and Ore Reserves'. Mr. Boda consents to the inclusion in the announcement of the matters based on his information in the form and context in which it appears.

#### **About Artemis Resources**

Artemis Resources (ASX: ARV; FRA: ATY; US: ARTTF) is a Perth-based exploration and development company, led by an experienced team that has a singular focus on delivering shareholder value from its Pilbara gold projects – the Greater Carlow Gold Project in the West Pilbara and the Paterson Central exploration project in the East Pilbara.

For more information, please visit www.artemisresources.com.au

This announcement was approved for release by the Board

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### SECTION 1 SAMPLING TECHNIQUES AND DATA

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

Criteria	Commentary
Sampling techniques	<ul> <li>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.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (eg reverse circulation filing was used to obtain 1 m samples from which 3 kg was pulverised to partoduce 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.</li> </ul>
Drilling techniques	<ul> <li>Drill type (eg core, reverse circulation drilling completed by Topdrill.</li> <li>circulation, open-hole hammer, ortary 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).</li> <li>Reverse Circulation drilling completed by Topdrill.</li> <li>Drilling was completed using a truck mounted T685 Schramm rig mounted on 8x8 trucks</li> <li>This can produce 1000psi/2700CFM with an axillary booste which is capable of achieving dry samples at depths of around 300m.</li> <li>Diamond drilling was completed by TopDrill using a Sandvik truck mounted DE880 rig.</li> </ul>
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>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.</li> <li>Recoveries are recorded on logging sheets along with encounters with water and whether the samples are dry, mois or wet.</li> <li>Drilling recoveries for Reverse Circulation drilling were &gt;80% with some exceptions that maybe caused by loss of return through faults or encounters with water.</li> <li>&gt;90% of samples returned dry.</li> </ul>
Logging	<ul> <li>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</li> <li>RC samples were collected from the static cone splitter as two samples, one bulk sample and one primary (analytical sample.</li> <li>The bulk samples are one metre splits.</li> <li>These bags are then placed in neat rows of 50 bags each clear of the rig for safety reasons.</li> </ul>

Criteria		Commentary
	<ul> <li>studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul> <li>The sieved sample is then transferred to a wet sieve in a bucket of water, and the sample is sieved further until rock fragments are clearly visible.</li> <li>These rock fragments are then logged by the site geologist,</li> </ul>
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>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.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul> <li>RC samples were collected on the drill rig using a cone splitter. If any mineralised samples were collected wet these were noted in the drill logs and database.</li> <li>The RC drilling rig is equipped with a rig-mounted cyclone and static cone splitter, which provided one bulk sample of approximately 20-30 kilograms, and a sub-sample of approximately 2-4 kilograms for every metre drilled.</li> <li>Field QC procedures involve the use of Certified Reference Materials (CRM's) as assay standards, along with duplicates and blank samples. The insertion rate of these was approximately 1:20.</li> <li>For RC drilling, field duplicates were taken on a routine basis at approximately 1:20 ratio using the same sampling techniques (i.e. cone splitter) and inserted into the sample run.</li> <li>Primary and duplicates results have been compared.</li> <li>The sample sizes are appropriate, representative and are considered more than adequate to ensure that there are no particle size effects relating to the grain size of the mineralisation.</li> </ul>
Quality of assay data and laboratory tests	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>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.</li> <li>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.</li> </ul>	<ul> <li>This fraction was split again down to a 50g charge for fire assay</li> <li>50-gram Fire Assay (Au-AA26) with ICP finish for Au.</li> <li>No QC for Ag currently in place.</li> <li>All samples were dried, crushed, pulverised and split to produce a sub-sample of 50g which is digested and refluxed with hydrofluoric, nitric, hydrochloric and perchloric acid (4 acid digest).</li> <li>This digest is considered a total dissolution for most minerals</li> <li>Analytical analysis is performed using ICP-AES Finish (ME-ICP61) for Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Mg, Mn, Mo, Na, Ni, P. Pb, S. Sb, Sc, Sr, Th, Ti, TI, U.</li> </ul>

Criteria		Commentary
Verification of	The verification of significant	<ul> <li>drilling programs and homogenised using certified laboratories.</li> <li>Standards were analysed by round robins to determine grade.</li> <li>Standards were routinely inserted into the sample run at 1:20.</li> <li>Laboratory standards and blank samples were inserted at regular intervals and some duplicate samples were taken for QC checks.</li> <li>Sampling was undertaken by field assistants supervised by</li> </ul>
sampling and assaying	<ul> <li>intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul> <li>experienced geologists from Artemis Resources. Significan intercepts were checked by senior personnel who confirmed them as prospective for gold mineralisation.</li> <li>No twin holes using RC was completed in this program.</li> <li>Electronic data capture on excel spreadsheets which are ther uploaded as .csv files and routinely sent to certified database management provider.</li> <li>Routine QC checks performed by Artemis senior personne and by database management consultant.</li> <li>PDF laboratory certificates are stored on the server and are checked by the Exploration Manager.</li> </ul>
Location of data points	<ul> <li>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.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul> <li>A Garmin GPSMap62 hand-held GPS was used to define the location of the initial drill hole collars. Standard practice is for the GPS to be left at the site of the collar for a period of 5 minutes to obtain a steady reading. Collar locations are considered to be accurate to within 5m.</li> <li>A high-quality downhole north-seeking multi-shot or continuous survey gyro-camera was used to determine the dip and azimuth of the hole at 30m intervals down the hole</li> <li>The topographic surface was calculated from the onsite mine survey pickups and subsequently verified by RTK GNSS collar surveys.</li> <li>Zone 50 (GDA 94).</li> <li>Surface collar coordinates are surveyed via RTK GNSS with 1cm accuracy by a professional surveying contractor.</li> </ul>
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>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 applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul> <li>In certain areas, current drill hole spacing is variable and dependent on specific geological, and geochemical targets.</li> <li>A nominal 40x20m drill spacing is considered adequate to establish the degree of geological and grade continuity appropriate for JORC (2012) classifications applied.</li> <li>No sample compositing to date has been used for drilling completed by Artemis. All results reported are the result of a metre downhole sample intervals.</li> </ul>
Orientation of data in relation to geological structure		<ul> <li>Drill holes were designed to be perpendicular to the strike or known mineralisation. Due to the structural and geologica complexity of the area, mineralisation of unknown orientation can be intersected.</li> </ul>
Sample security •	The measures taken to ensure sample security.	<ul> <li>The chain of custody is managed by the supervising geologis who places calico sample bags in polyweave sacks. Up to 10 calico sample bags are placed in each sack. Each sack is clearly labelled with:</li> <li>Artemis Resources Ltd</li> <li>Address of laboratory</li> <li>Sample range</li> </ul>

Criteria		Commentary
	•	Samples were delivered by Artemis personnel to the transport company in Karratha and shrink wrapped onto pallets. The transport company then delivers the samples directly to the laboratory.
Audits or reviews	reviews of sampling techniques	Data is validated upon up-loading into the master database. Any validation issues identified are investigated prior to reporting of results.

## SECTION 2 REPORTING OF EXPLORATION RESULTS

Criteria		Commentary
Mineral tenement and land tenure status	<ul> <li>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.</li> <li>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.</li> </ul>	<ul> <li>Drilling by Artemis was carried out on E47/1797 – 100% owned I Artemis Resources Ltd. This tenement forms a part of a broad tenement package that comprises the West Pilbara Project.</li> <li>This tenement is in good standing.</li> </ul>
Exploration done by other parties	<ul> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul> <li>The most significant work to have been completed historically in the Carlow Castle area, including the Little Fortune and Good Luc prospects, was completed by Open Pit Mining Limited between 198 and 1987, and subsequently Legend Mining NL between 1995 ar 2008.</li> <li>Work completed by Open Pit consisted of geological mappin geophysical surveying (IP), and RC drilling and sampling.</li> <li>Work completed by Legend Mining Ltd consisted of geologic mapping and further RC drilling.</li> <li>Legend also completed an airborne ATEM survey over the proje area, with follow up ground-based FLTEM surveying. Re-processir of this data was completed by Artemis and was critical in developir drill targets for the completed RC drilling.</li> <li>Compilation and assessment of historic drilling and mapping da completed by both Open Pit and Legend has indicated that this da is compares well with data collected to date by Artemis. Validation ar compilation and analysis techniques conducted by both Open F and Legend are considered to have been appropriate for the style deposit.</li> </ul>
Geology	<ul> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>	-

Criteria			Commentary
Drill hole Information	<ul> <li>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:</li> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> <li>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.</li> </ul>		Drill hole information is contained within this release.
Data aggregation methods	<ul> <li>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.</li> <li>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.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	•	All intervals reported are composed of 1 metre down hole intervals for Reverse Circulation drilling. Aggregated intercepts do include reported lengths of higher-grade internal intercepts. No upper or lower cut-off grades have been used in reporting results. No metal equivalent calculations are used in this report.
Relationship between mineralisation widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear</li> </ul>	•	The mineralisation in the Carlow Castle Western Zone strikes generally E-W and dips to the north at approximately -75 to -80 degrees. The drill orientation was 180 -60 dip. Drilling is believed to be generally perpendicular to strike. Given the angle of the drill holes and the interpreted dip of the host rocks and mineralisation, reported intercepts approximate true width. True thicknesses are calculated from interpretation deriving from orientation of high-grade intervals, orientation of the main mineralised trend and its dip.

Criteria			Commentary
	statement to this effect (eg 'down hole length, true width not known').		
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.	Þ	Appropriate plans are shown in the text.
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 Exploration Results.	•	This release reports the results of six RC holes out of a nine hole program. The significant results tabulated in the release are reported at a base grade of >0.5 g/t Au or >0.5% Cu. Internal dilution of up to 2 m may be included in an intersection.
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.	•	Targeting for the RC drilling completed by Artemis was based on compilation of historic exploration data, and the surface expression of the targeted mineralised shear zones and associated historic workings.
Further work	<ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	•	Further work (RC and diamond drilling) is justified to locate extensions to mineralisation both at depth and along strike.