

30 January 2024

El Dorado assays deliver gold grades up to 13g/t Au

- Freehill has taken receipt of assay results from an extensive sampling program at its 100%owned 750 hectare El Dorado project, located adjacent to the group's flagship Yerbas Buenas (Y.B) sand/aggregate and magnetite mining operations
- The sampling program comprised 38 samples across 49 locations in the El Dorado Central area; results were highlighted by the Target A Central area, which recorded an average Au grade of 5.24g/t with highlights including:
 - 0.9m sampling width @ 13.52g/t Au
 - o 1m sampling width @ 9.3g/t Au
 - o 1.1m sampling width @ 7.94g/t Au
 - o 0.6m sampling width @ 7.94g/t Au
 - 0.9m sampling width @ 6.18g/t Au
 - o 0.8m sampling width @ 4.99g/t Au
- High-grade gold veins identified to-date are located in proximity to numerous large magnetic targets over 500m in length, which is potentially indicative of a large mineralised ore body
- Initial results support plans for ongoing exploration at El Dorado, which will include additional sampling work to define priority target areas for a follow-up drill program

Freehill Mining Limited (ASX:FHS 'Freehill' or 'the Company') is pleased to announce results from an extensive sampling program across the Central Area at the El Dorado prospect, immediately north of the Company's sand and aggregate mining operations at Yerbas Buenas, Northern Chile.

A total of 38 samples across 49 locations were collected in late 2023, focused on the El-Dorado Central area, including Target A Central, Target A North, and Target B. The sampling program yielded several strong results across the target area, highlighted by Target A Central which recorded an average Au grade of 5.24g/t with a mode of 7.94g/t, with the mineralised vein extending for over 200m. FHS is now planning to commence additional sampling across a number of high priority targets in the tenement over the coming weeks.

Chairman Ben Jarvis commented: "At an average grade of 5.24g/t, these results are outstanding and encourage us that we are onto a large, potentially highly mineralised orebody at El Dorado. Plans are well advanced for the next phase of systematic exploration, which will focus on the identification of additional gold veins and geophysical anomalies. Strategically, El Dorado presents the Company with a unique opportunity to extract value from its fully-owned asset base and complement the group's operations at Y.B. with a highly prospective gold project, amid a macro environment that remains broadly supportive of gold prices across all currency pairs. El Dorado has lots of optionality copper, cobalt and magnetite present across the lease. We look forward to keeping shareholders updated with the next exploration phase which his advancing."

Sampling program summary

At Target A Central, assays have revealed gold grades up to 13g/t Au (average 5.24g/t) across the sampled vein, with a mode of 7.94g/t Au. The average width mapped is around 1m, with around 230m of inferred vein strike with over 150m measured with veins situated to the north and south also containing gold. A number of veins remain to be sampled and the steeply dipping orebodies likely open at depth.

The geological thesis supports a strategy to follow up high-grade gold results from surface veins relating to a series of quartz-limonite fault-breccia structures associated with dioritic units. While the veins themselves represent a potential mining target, the geological setting is also related to IOCG-type copper-gold deposits which are commonly mined in Chile (22km away is the Dominga Cu/Fe deposit).

Along with the mining potential of these high-grade gold veins, their proximity to numerous large magnetic targets over 500m in length with strong iron grades (up to 25%), anomalous cobalt (up to 0.05%) vanadium (up to 0.39%) and two untested chargeability anomalies continues to add encouragement to the theory that a mineralised orebody (10-50Mt or greater) is situated within the tenement area.

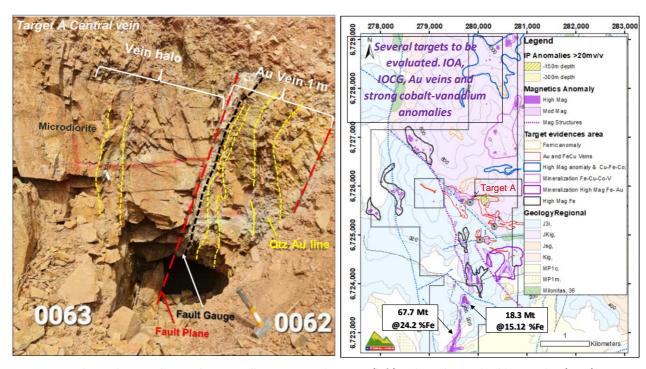


Image 1: El Dorado central Area, showing collection points locations (left) and geochemical gold anomalies (ppm)

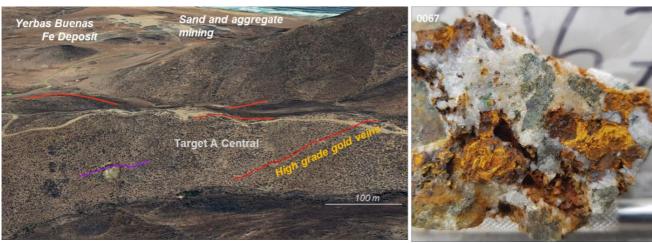


Image 2: Target A location show across the broader El Dorado lease and location. Of high grade gold samples

Freehill Mining Limited

ACN 091 608 025 | www.freehillmining.com

Melbourne Office La Serena, Chile office |Tel: +61 (0)3 8658 5976 |email: info@freehillmining.com |Level 24, 570 Bourke Street, Melbourne, Vic 3003

Level 24, 570 Bourke Street, Welbourne, Vic 3003

| Level 7, Edificio Seville, Avenida Del Mar La Serena, Chile South America

The El Dorado Project

Acquired by FHS in 2020, the El Dorado Project is highly prospective for magnetite, copper and gold mineralisation, and offers access to an additional four-kilometre stretch of the Atacama-El Tofo fault zone.

Around seven kilometres to the northeast lies the Higuera district, which hosts a number of copper mines and IOCG resources, while 22 kilometres to the north sits Andes Iron's \$1-billion Dominga copper-iron project.

There are also three copper-gold concentrating plants located within 30 kilometres of the El Dorado Project, each of which have active environmental permits in place.

Twenty-two kilometres north of the El Dorado Project area is the Dominga IOCG deposit, which was a gold mine exploited in the 70's and 80's.

Mineralisation at Dominga consisted of a gold vein 500 metres long, 2 metres wide and 250 metres deep, and annual production was estimated to be around 100koz.

The main vein coincides with the trace of the El Tofo fault and corresponds to the known mineralisation of the Atacama Fault System.

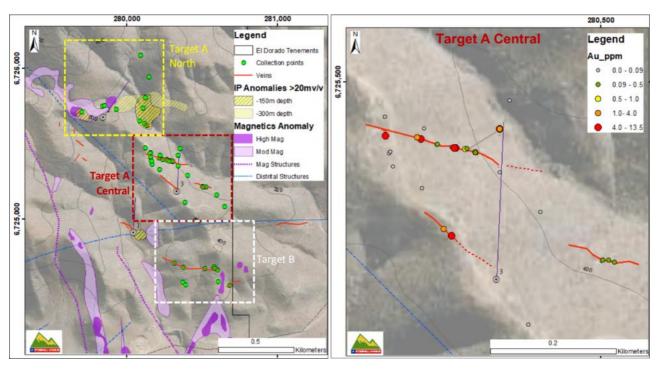


Image 2: Mapped areas outlining the large number of geophysical and geophysical targets (L) and the consistently high (>5g/t Au) grades at the Central A vein, shown across average width (R)

This announcement has been approved by the Board of the Company.

For further information, please contact:

Paul Davies Ben Jarvis

Chief Executive Officer Non-Executive Chairman

Freehill Mining Limited 0413 150 448

+61 419 363 630 ben.jarvis@sdir.com.au

Media & investor relations inquiries: Sam Jacobs, Six Degrees Investor Relations: +61 423 755 909



Follow @FreehillMining on X



Follow Freehill Mining on LinkedIn

COMPETENT PERSONS

Competent Person Statement – El Dorado Sampling Results

The information in this statement that relates to Sampling Results from December 2023 sampling of the El Dorado Gold Prospect, Chile is based on information compiled by independent consulting geologist Geoffrey R Muers B.Sc (Hons). Mr Muers is a Member of The Geological Society of Australia, employed by Mine Invest consulting and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which is 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. Muers consents to the inclusion in the report of the matters based on the information made available to him, in the form and context in which it appears.

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** All rock chip and channel chip samples Sampling Nature and quality of sampling (eg cut techniques channels, random chips, or specific subject to this report were collected in such specialised industry standard a way as to represent the entire lithology, measurement tools appropriate to the not just veins and veinlets zones. Generally, minerals under investigation, such as a sample weighs about 4-5 kg. Each sample down hole gamma sondes, or handheld location was captured digitally by software XRF instruments, etc). These examples with GPS integrated in WSG84, recording should not be taken as limiting the the capture time, and a detailed geological broad meaning of sampling. description was taken. Include reference to measures taken to Sample representativity was ensured by collecting rock chips across the face or along ensure sample representivity and the appropriate calibration of any a channel across the structure. measurement tools or systems used. At Target A, veins zone, the average • Aspects of the determination of distance between samples is 18m with a mineralisation that are Material to the maximum of 38m due to physical Public Report. constraints or other limitations with outcrop In cases where 'industry standard' work The presence of or indications of has been done this would be relatively mineralization was determined based on the simple (eg 'reverse circulation drilling texture and nature of the outcrop, including was used to obtain 1 m samples from quartz veins, copper oxides, and limonite which 3 kg was pulverised to produce a minerals after sulphides. 30 g charge for fire assay'). In other The rock chip samples were transported to cases more explanation may be the facilities of AGeological, a certified required, such as where there is coarse Laboratory in Coquimbo. The individual gold that has inherent sampling hand samples of each sample are stored for problems. Unusual commodities or logging and reference in the company mineralisation types (eg submarine facilities at Yerbas Buenas deposit, IV nodules) may warrant disclosure of Region, Chile. detailed information.

Criteria	JORC Code explanation	Commentary
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).	No drilling has been undertaken to date by the Company
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. 	NA as above
Logging	 Whether core and chip samples have been geologically and geotechnical 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 costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	 Each sample description was captured digitally in a tablet by software with GPS integrated in WSG84 and a detailed geological description of the lithology, alteration, mineralization, and measurement of the controlling structure. Width of structures, veins and halos were recorded. The presence of or indications of mineralization was determined based of the texture and nature of the outcrop, including the presence of quartz veins, calcite, actinolite, albite, the presence of copper oxides, magnetite or hematite and limonite minerals after sulphides. Most sample sites were photographed, and a detailed digital field capture software in a tablet. Where possible fault planes and central veins were measured and documented.
Sub- sampling technique s and sample preparatio n	 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. 	No drilling has been undertaken

Criteria	JORC Code explanation	Commentary
	 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. 	

Criteria	JORC Code explanation	Commentary
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. 	 All rock chip samples properly identified with two tickets and labelled and ordered sequentially were packed in bags with ten samples and closed using cable ties. The sample bags were identified, written, and delivered after completion of the fieldwork to the AGeological preparation laboratory in Coquimbo. Thel laboratory holds ISO/IEC 17025:2017 certification and is independent of the company and its subsidiaries. The laboratory is well run, with a full-time chemist supervising operations. Based on a shift five days per week. AGeological undertook Mechanical Sample preparation in a sample preparation facility installed in Coquimbo. Preparation procedures followed the following mechanical preparation steps: Drying at 105°C; Primary crushing in a "Rhino" jaw crusher to 85% passing <10# Tyler; Homogenization and reduction by Jones Riffle Splitter Pulverizing to 95% passing <150# Tyler; Splitting to 2 sample pulp bags of approx. 250 g each. The pulverized samples were analyzed by a 4-acid digest with ICP-OES. This method is designed to analyze geochemical anomalies in exploration-grade rock/soil samples. The technique is a multi-acid digest and is considered as near total. Each samples was analysed for 36 elements with all samples also analysed for gold . the internal laboratory code is Code M-DT ICPOES-36 (1F2)* PR-O4 V.00 The gold with M-Au FA-AAS 30g PR-15 V.00 method is determined by fire assay by using lead collection technique with a 30g sample charge weight and MP- AES instrument finish. Selected samples were also assayed for Cu using the

Code M-Cu Vol* method when M-DT ICPOES-36 (1F2)* PR-04 V.00 exceeded the analytical range.

- No duplicates, standards and blanks were used for the field samples however this is to be considered for future programs
- The laboratory used internal standards and blanks for its own QC, including four certified standard reference materials. High-grade copper standard (code Std Cu Oreas 507 and Oreas 993), low-grade copper standard (code Std Cu OREAS 13b), and the gold standard (code STD Au Oreas 242).

Criteria	JORC Code explanation	Commentary
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.	 Apart from the laboratory internal QAQC protocol, the only QAQC protocol applied was the collection of a twin sample at specific sample locations. Assay data are supplied electronically by AGeological and uploaded into the spreadsheet. Assay data was considered reliable and no spurious numbers were reported
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.	 All sample locations, outcrop locations, historic workings, and locations of geographical significance were recorded using both an Android Note S20 ultra and a GPS Garmin GPSMap 65Series. All samples and mapping locations were recorded in WGS84, UTM Zone 19N grid reference system
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 applied. Whether sample compositing has been applied.	 The spacing of locations of geological data points, including sampling locations, was determined by the nature and distribution of outcrops constrained by other physical features such as vegetation, access Outcrops occur mainly along topographic highs and along resistant lithologies like silicified structures, quartz veins, and albitic/magnetite veinlets. Inference of geological continuity and spatial significance of sample results was concluded from the interpretation of satellite photography, geological reconnaissance, and structural.

At the Target A central, an average distance between samples resulted in 18m with a maximum of 38m.

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 mineralized structures is considered to have introduced a sampling bias, this should be assessed and reported if material.
- Care was taken in collecting rock chip samples orthogonal to the strike of the controlling structures and as channel samples.
- Local scale structures are a key factor in the localization of mineralization in the project area.
 Faults are highly significant aspects of the project geology.
- Faults and fractures that range from pre and synmineralization. The pre and syn-mineralization structures are likely to have controlled the localization of hydrothermal fluids and emplacement of mineralization. Two groups of fault or fracture orientations are conspicuous and, in order of importance, are east-west and west-north-westerly (Target A 234-280 degrees) and east-west (Target B 270 degrees). Folding has not been directly observed within the volcanic rocks.

Sample security

 The measures taken to ensure sample security.

- The samples were personally delivered by a company representative in sealed bags at the AGeological preparation laboratory in Coquimbo Samples were transported by Company personnel using pickup truck and were securely locked at the AGeological Labs.
- Chain-of-custody procedures consisted of filling out sample submittal forms that accompanied the sample delivery to confirm that all samples were received by the laboratory. Sample security consisted of locking samples, once collected, in the field camp compound prior to delivery to AGeological. This level of assurance is considered industry standard for early-stage exploration programs.
- Sample rejects, and Pulps are currently stored at the AGeological lab in a secure environment.
 Company sampling data are stored in an Excel spreadsheet and in a pdf file.

Audits reviews

 The results of any audits or reviews of sampling techniques and data. • No audit of data has been completed to date.

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. 	 All claims relating to the El Dorado Project minerals claims are in good standing. The company holds a 100% interest. No known impediments. The El Dorado Project, Central area, Target A and B are located on 3 licenses held through Chilean subsidiaries, of which Freehill Investments Pty Ltd currently has a 100% interest. Licences are numbers 041023675 – 3, El Dorado VII, 1-7; 041023676 – 1, El Dorado VIII, 1-10; and 041022755 – K, Arenas VI 1-20. Total of 258 hectares.
Exploration done by other parties	 Acknowledgment and appraisal of exploration by other parties. 	 No work developed by others at the Target A and B areas.
Geology	Deposit type, geological setting and style of mineralisation.	 The El Dorado Prospect, Target A and B occurs between the El Tofo and Romeral Fault, part of the Atacama Fault System. Tofo-Romeral Fault prevails in the area, showing main structural attitudes N40W;80SW. recognised structural lineaments associated with contact limits of andesite tectonic blocks. El Dorado is in a porphyritic dioritic unit (JKd) dated to 145 mA. and is related to the Agua Salada subvolcanic complex, made up of porphyritic diorites and andesitic bodies, andesitic lavas of porphyry and pyroxenes, and black to greenish amphibole microdiorites. The mineralization of the surface of El Dorado corresponds mainly to veins and veinlets of quartz—limonite, magnetite-hematite associated with actinolite and apatite. At Target A central, the Au vein structure

Freehill Mining Limited

|ACN 091 608 025 | www.freehillmining.com |Tel: +61 (0)3 8658 5976 | email: info@freehillmining.com |Level 24, 570 Bourke Street, Melbourne, Vic 3003 |Level 7, Edificio Seville, Avenida Del Mar La Serena, Chile South America

Melbourne Office La Serena, Chile office

Criteria	JORC Code explanation	Commentary
		 azimuth is between 234 and 280, dipping to the South between 71 and 75 degrees. Goethite and red hematite textures indicate chalcopyrite and pyrite lixiviation. Au veins of 100 cm thickness on average are composed of a 10 to 30cm fault gauge zone followed by one or two semi-translucent 10 to 30cm qtz-limonite (Au) central lines distributed into the altered locally brecciated microdiorite. The veins mineralogy indicates this system is associated with an IOCG type of mineralogy. Local magnetite and actinolite lines are present at the edges of the vein structure. When a Magnetite vein is present, the alteration halo into the wall rock is composed of albitic alteration and local scapolite.
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 meters) 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 drilling has been undertaken
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off 	No drilling has been undertaken u froebillmining com

Freehill Mining Limited

| ACN 091 608 025 | www.freehillmining.com

|Tel: +61 (0)3 8658 5976 |email: info@freehillmining.com

| Level 24, 570 Bourke Street, Melbourne, Vic 3003

| Level 7, Edificio Seville, Avenida Del Mar La Serena, Chile South America

Criteria	JORC Code explanation	Commentary
	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.	
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'). 	 Sampling of such geological structures was undertaken in such a way that the true width of the structure in the outcrop was sampled in the most representative way. There is not sufficient information at this stage to determine potential depth extent of mineralisation, and due to the sub-vertical dip (Orientation) of the veins, it can be assumed there will be a degree of depth continuity which can only be ascertained by drilling. .
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.	Site location plan. Site location plan. Sign part of the property of the pr
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. 	 All available results and relevant technical field information is provided. The use of averages, modes, means and other statistical terms are relevant in this case due to the relatively low standard deviation however these results whilst encouraging, cannot be used without further testwork (drilling) to estimate any Mineral Resources (JORC, 2012)

Criteria	JORC Code explanation	Commentary
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.	No drilling has been undertaken
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 geologists are currently processing and interpreting the geochemical data in the context of adjacent targets and geological settings observed and recorded. An evidence-based systematic exploration program is in place to evaluate numerous IOCG-type targets, as well as magnetic and chargeability anomalies and several cobalt and vanadium high values at samples. The next activities comprehend the re-logging of 2019 and 2022 drill holes at El Dorado, followed by a trenching of Target A and mapping and sampling of Target B south to integrate surface results with magnetic anomalies. Assuming positive results from the work, and availability of sufficient funding: drilling to define the extent of the mineralized zones at depth and along strike, with a view to later establishing Mineral Resources, can be conducted.