

## NEW GOLD ZONE AND DRILLING UPDATE CUITABOCA PROJECT, MEXICO

7 June, 2016. Santana Minerals Limited (Santana) reports in relation to the drilling program at the Cuitaboca Project, Sinaloa, Mexico and identification of a new gold zone.

### Highlights:

- RC drill program underway
- Gold zone identified – rock chip assays showing 11.8m @ 2.15 g/t Au + 10 g/t Ag

### Discussion:

#### Commencement of Drill Program – Central Sector – Mojardina Loop

Santana confirms drilling, utilising a skidder type RC rig (**Fig. 1**), at the bulk tonnage silver target Mojardina Loop in the Southern Sector of the Cuitaboca Project continues and is expected to be completed by mid-June. This is part of a 1,800m (approx.) drill program. The drilling will also test part of the Jesus Maria prospect in the Central Sector which is seen as a potential ‘repeat’ of the Mojardina Loop.



**Figure 1.** RC drilling utilising a skidder type RC rig which commenced drilling ranked targets from Sunday 29<sup>th</sup> May.

### Carajuca Gold Zone – Central Sector

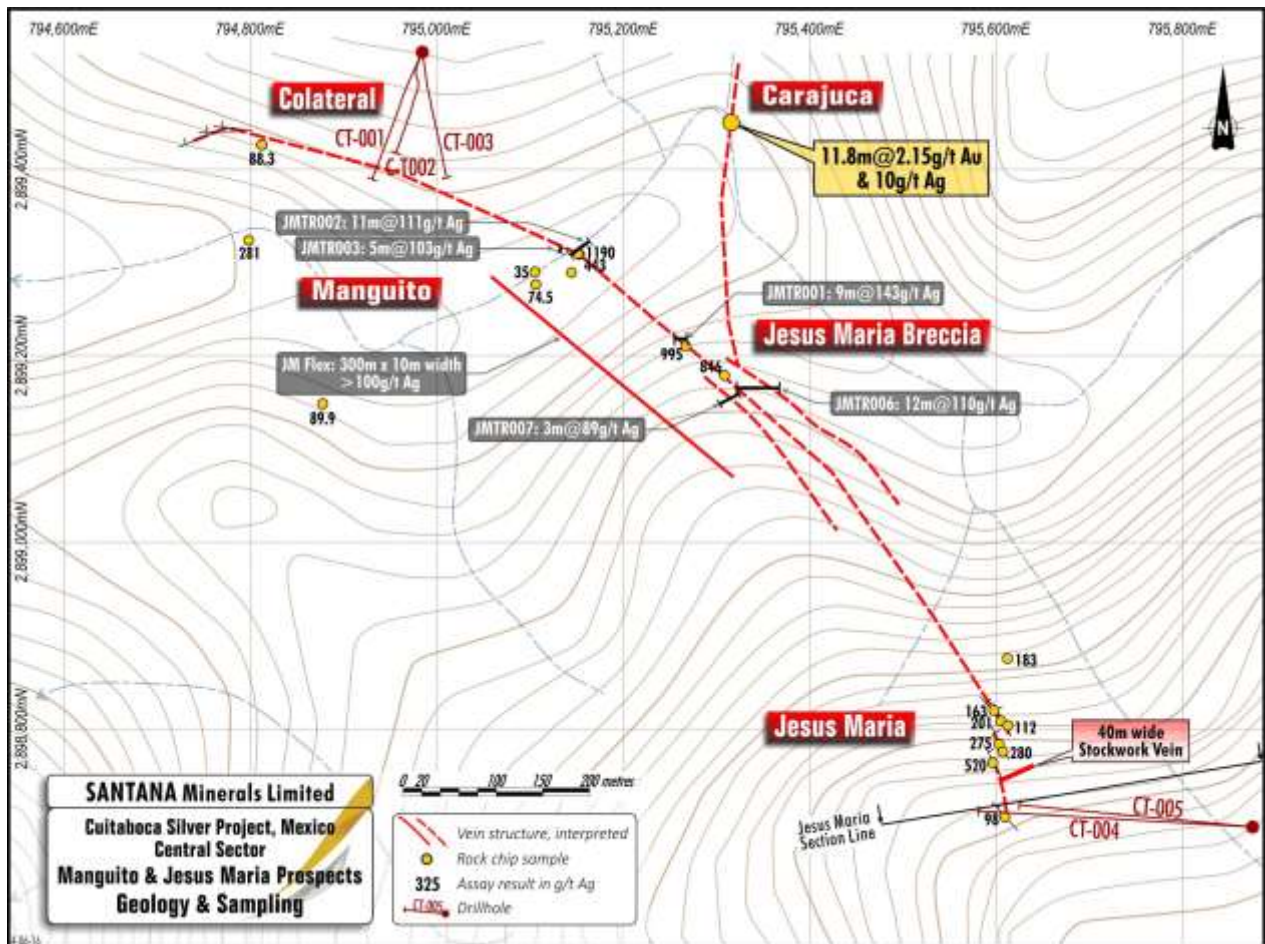
A splay quartz breccia trending north off the defined Jesus Maria trend (9m @ 143 g/t Ag - JMTR001, 11m @ 111 g/t Ag - JMTR002, 5m @ 103 g/t Ag JMTR003) has returned a rock chip result of **11.8m @ 2.15 g/t Au + 10 g/t Ag** for a structure with a mapped strike length of over 200m (newly named Carajuca structure) (Figs. 2 & 3). This has important implications in an area thought until now only to be silver mineralised. If possible, access will be secured to allow one RC drill hole to be drilled at depth and along strike this structure as part of the current program.

The junction of the Jesus Maria Silver Breccia and this gold zone will be better targeted when access is completed in the coming months, post the current drill program.

The sampling was completed prior to the current drill program with veins discovered during road design for future access.



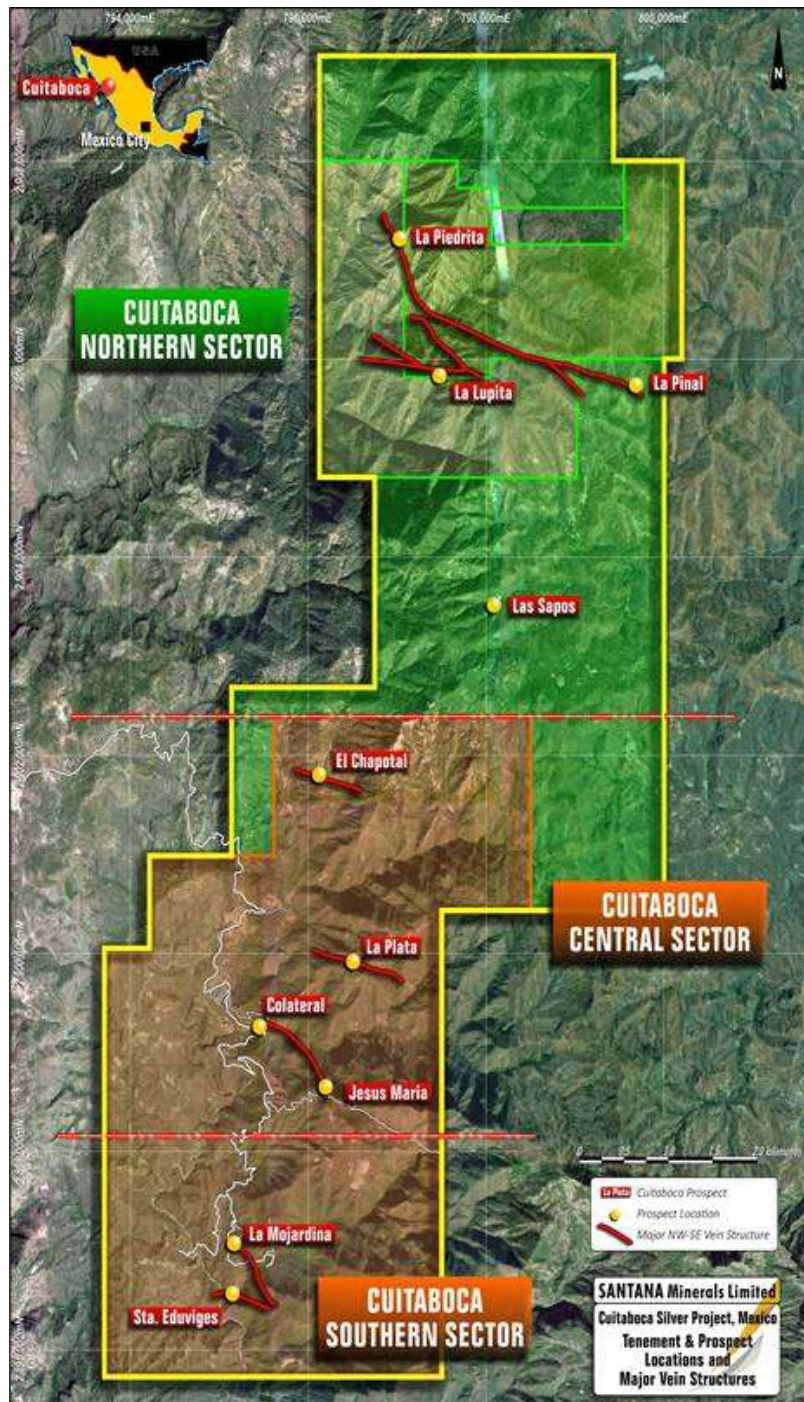
**Figure 2.** Carajuca, the Jesus Maria sub-prospect and recently identified gold zone.



**Figure 3.** Manguito (JMTR002 and 003) and Jesus Maria Breccia (JMTR001) areas were focus of sawn trenches. Both exhibit stockworks greater than 10m width and previously known main mineralised veins. Note at least 200 metres of strike length between mineralised stockworks JMTR001 and 002 with no outcrop in between, suggesting probable continuity of target for future drilling.

North	East	RL	Width (m)	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Sample ID
2899447	795301	786	1.1	0.1	1	70	300	EEC L
2899565	795348	786	1.1	0.05	1	60	400	EEC M
2899452	795308	783	1.2	0.25	1	30	390	EEC N
2899449	795307	782	1.2	1.96	3	180	630	EEC O
2899448	795309	782	1.2	0.92	3	340	640	EEC P
2899448	795310	782	1.0	6.1	5	580	640	EEC Q
2899448	795311	782	1.0	0.5	3	550	960	EEC R
2899448	795312	782	1.0	0.7	4	800	550	EEC S
2899449	795312	782	1.0	0.28	3	300	550	EEC T
2899449	795313	783	1.0	0.09	2	150	530	EEC U
2899449	795314	783	1.0	1.84	3	140	570	EEC V
2899448	795315	783	1.0	1.8	6	1260	1160	EEC W
2899447	795315	783	1.0	5.44	21	4840	2580	EEC X
2899447	795316	783	1.0	3.68	17	2820	3160	EEC Y
2899447	795317	783	0.4	2.51	46	5040	11500	EEC Z

**Table 1.** Rock Chip samples with highlighted samples, taken at right angles across the Carajua structure within the Jesus Maria Prospect. Gold to silver ratio of 7 to 10 is as seen at Lupita structure, 3km to the north.



**Figure 4.** Cuitaboca Tenement and Prospect Location Map

**About Cuitaboca Project:**

The Cuitaboca Project is in an area covered by the 5,100 Ha mining concessions and consists of a series of veins with sulphide mineralisation carrying high grade silver and low grade polymetallic minerals. There are now at least nine well defined vein systems that outcrop and have observable thicknesses of between 0.5m to 4m wide. The assay results for the diamond saw cut trench sampling reported here demonstrate for the first time that highly mineralised stockworks occur in at least some of the zones between these main veins. The area is dominated by andesite flows and tuffs of the lower to intermediate volcanic group with minor rhyolites of the upper volcanic group at higher elevations.

The main vein structures are La Lupita – El Pinal, La Piedrita and Blanca Esthela prospects in the Northern Sector of the Cuitaboca Project, Los Sapos, Chapotal, La Plata, Colateral and Jesus Maria in the Central Sector and the Mojardina and Santa Eduwiges vein systems in the Southern Sector.

Santana has a contractual right to earn to an 80% interest in the Cuitaboca Project through a combination of work commitments and payments following which it enters into a joint venture on an 80:20 contribution basis.

For further information, please contact:  
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### **About Santana**

Santana is a precious metals explorer focused on Mexico where it owns 100% of the Namiquipa (silver/lead/zinc) project in Chihuahua and is earning into ownership of the Cuitaboca Ag-Au polymetallic project in Sinaloa.

Additional information about Santana and its projects is available on the website:  
[www.santanaminerals.com](http://www.santanaminerals.com)

### **Competent Person/Qualified Person**

The information in this report that relates to exploration targets, exploration results, mineral resources or ore reserve is based on information compiled by Mr Jason Beckton, who is a Member of the Australian Institute of Geoscientists. Mr Beckton is a part time consultant to Santana. Mr Beckton has sufficient experience which 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 Beckton consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

JORC Code, 2012 Edition – Table 1 CUITABOCA EXPLORATION PROGRAM REPORT:

A. DIAMOND SAW CHANNEL Sampling – Southern Zone

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> <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 of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<p><u>ROCK CHIP SAMPLING</u></p> <ul style="list-style-type: none"> <li>Rock Chip Channel samples were collected of argentite-galena-sphalerite bearing quartz veins, and zones of silicification, within Tertiary volcanics under the supervision of a qualified geologist.</li> <li>Sample locations were surveyed with a handheld GPS then permanently marked with an aluminum tag.</li> <li>Representative sawn cut samples of 2-3Kg weight were taken across the strike of the outcrop over 1 metre intervals except where noted. Intervals were cut at right angles to assist in later surveying duties.</li> <li>Standards inserted and photographs taken of each interval sampled which averaged 1m.</li> </ul>
Drilling techniques	<ul style="list-style-type: none"> <li>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).</li> </ul>	<p><u>NO DRILLING IN THIS REPORT.</u></p>
Drill sample recovery	<ul style="list-style-type: none"> <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> </ul>	<p><u>NO DRILLING IN THIS REPORT.</u></p>
Logging	<ul style="list-style-type: none"> <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 studies.</li> </ul>	<ul style="list-style-type: none"> <li>Samples were geologically and structurally mapped under the supervision of a qualified geologist.</li> </ul>

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Rock Chip Channel samples were measured for metal sulphide and host quartz content and orientation.</li> </ul>
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Rock Chip samples were a width of at least 3cm and approximate sample support of half core NQ from diamond drilling, ie sample diameter of 56mm, being a half core sample of that.</li> </ul>
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> <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>	<p><u>Rock Chip Trench Sampling</u></p> <ul style="list-style-type: none"> <li>Samples are stored in a secure location and transported to the ALS laboratory in Hermosillo for sample preparation of fine crush, riffle split and pulverizing of 1kg to 85% &lt; 75µm.</li> <li>Pulps are analyzed by ALS Vancouver (Canada) using method code ME-ICP61a, a 33 element determination using a four acid digestion, Au-AA26.</li> </ul>
Verification of sampling and assaying	<ul style="list-style-type: none"> <li>The verification of significant 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>	<p><u>Rock Chip Trench Sampling</u></p> <ul style="list-style-type: none"> <li>Laboratory CSV files are merged with GPS Location data files using unique sample numbers as the key.</li> <li>No adjustments made to assay data</li> </ul>
Location of data points	<ul style="list-style-type: none"> <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>	<p><u>Rock Chip Trench Sampling</u></p> <ul style="list-style-type: none"> <li>Samples are located using handheld GPS receivers.</li> <li>UTM projection WGS84 Zone 12N.</li> <li>The topographic control, using handheld GPS, was adequate for the survey.</li> </ul>
Data spacing and distribution	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient</li> </ul>	<p><u>Rock Chip Trench Sampling</u></p> <ul style="list-style-type: none"> <li>Results will not be used for resource estimation prior to any supporting drilling being carried out..</li> </ul>



Criteria	JORC Code explanation	Commentary
	<p>to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</p> <ul style="list-style-type: none"> <li>Whether sample compositing has been applied.</li> </ul>	<ul style="list-style-type: none"> <li>No compositing has been applied.</li> </ul>
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>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.</li> </ul>	<p><u>Rock Chip Trench Sampling</u></p> <ul style="list-style-type: none"> <li>Representative rock chip samples of 2-3Kg weight are taken across the strike of the outcrop over 1metre intervals except where noted.</li> </ul>
Sample security	<ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>	<ul style="list-style-type: none"> <li>Samples were delivered to ALS Minerals laboratory in Hermosillo by Santana geologist and were not left unattended at any time.</li> </ul>
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<ul style="list-style-type: none"> <li>No audits or reviews of the data management system have been carried out.</li> </ul>

## Section 2 Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul style="list-style-type: none"> <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 license to operate in the area.</li> </ul>	<ul style="list-style-type: none"> <li>Santana Minerals, through subsidiaries and contractual rights, holds an option to acquire 80% of the Cuitaboca Project which consists of 100% of the mining concessions: El Chapotal (126ha), San Rafael (528ha), Nuestra Senora del Carmen (79.46ha), San Pedro (29ha), Jesus Maria (13.6ha), San Rafael II (540ha), Cuitaboca (2,402ha) and Las Sapos (1,386ha). The commercial terms consist of multiple option payments which form part of a total purchase price of US\$3.5M. The seller retains a 2.5% Net Smelter Royalty.</li> <li>The laws of Mexico relating to exploration and mining have various requirements. As the exploration advances specific filings and environmental or other studies may be required. There are ongoing requirements under Mexican mining laws that will be required at each stage of advancement. Those filings and studies are maintained and updated as required by Santana's environmental and permit advisors specifically engaged for such purposes.</li> </ul>
Exploration done by other parties	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul style="list-style-type: none"> <li>The first report of mining in the Cuitaboca area was between 1760 and 1810 with small scale mine workings. In 1883 American and English investors took control of the Cuitaboca mining operations which continued for nearly a century. Between 1974 and 1975 Servicios Industriales Penoles undertook systematic exploration using surface and underground geological mapping and the collection of 180 samples. In 2006 Canadian-based First Majestic acquired the property after a merger with First Silver</li> </ul>

Criteria	JORC Code explanation	Commentary
Geology	<ul style="list-style-type: none"> <li>• <i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>	<p>Reserve and initiated &gt;300m of underground development at Colateral Mine which delineated a quartz-galena-sphalerite vein that reported elevated Ag-Pb-Zn. First Majestic withdrew from the project in late 2008 and retained no interest.</p> <p>Within the Cuitaboca project area there have been 9 discreet polymetallic low sulphidation epithermal Ag-Au veins recognised that have undergone historical manual mining. Other low sulphidation epithermal polymetallic Ag-Au vein deposits host most ore within ore shoots at the coincidence of ore controls defined as: competent host rocks, dilatant structures, higher Au-Ag grade mineralisation styles and efficient mechanisms of Au-Ag deposition.</p> <p>Host rocks identified as interlayered Cretaceous age andesitic lavas, volcanics and volcanoclastic rocks and lesser rhyolites of the Sierra Madre Occidental Volcanics, have been placed in a stratigraphic succession as an aid to the delineation of the andesite flows, and locally welded tuffs, recognised as the most favourable rocks to host through going fissure vein mineralisation. In the Colateral adit the transition from incompetent lapilli tuff to competent andesite host rocks corresponds to a 110% increase in Ag and 250% increase in Au grades. An exploration target occurs where competent andesite is interpreted to underlie incompetent tuff.</p> <p>Mineralised veins lie within nine NW-SE (120°TN) trending structures interpreted as listric style normal faults formed in association with regional extension within the Sierra Madre. NW trending vein dips vary from steep to moderate and may locally display a relationship to rock competency as moderate dipping structures refract to steeper dips in the more competent andesites. Steeper dips mostly host better veins within listric fault environments. Using a structural model derived from Palmarejo, no dilatant flexures were identified as changes in the strike of veins from NW towards the WNW-EW, where steep dipping veins should host core shoots. Interpretation of the regional digital terrain model suggests NNE trending transfer structures might segment the listric faults and contribute towards the localisation of mineralisation.</p> <p>The historically mined Cuitaboca polymetallic Ag-Pb-Zn (<math>\pm</math> Au) bearing epithermal quartz veins comprise dominantly banded and brecciated quartz with galena, mostly yellow sphalerite, argentite, tetrahedrite, pyrite, chalcocopyrite and gangue of carbonate (calcite and rhodochrosite), barite and fluorite. The adjacent wall rocks display K-feldspar and retrograde chlorite-illite/smectite alteration</p>
Drill hole Information	<ul style="list-style-type: none"> <li>• <i>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:</i> <ul style="list-style-type: none"> <li>○ <i>easting and northing of the drill hole collar</i></li> <li>○ <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li>○ <i>dip and azimuth of the hole</i></li> <li>○ <i>down hole length and interception depth</i></li> <li>○ <i>hole length.</i></li> </ul> </li> </ul> <p><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</i></p>	

Criteria	JORC Code explanation	Commentary
	<p><i>clearly explain why this is the case.</i></p> <p><i>Rock Chip Trench Coordinates. IN due course these trenches will be surveyed currently coordinate is by GPS in grid system WGS84 12N. These sawn trenches are not drill holes but subsequent to surveying azimuths and dips will be recorded for each individual 1 metre contiguous sample.</i></p>	
Data aggregation methods	<ul style="list-style-type: none"> <li><i>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.</i></li> <li><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></li> <li><i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></li> </ul>	<ul style="list-style-type: none"> <li>Equivalent grades were not used in any tables or summations of the data.</li> <li>For intervals of less than standard 1 metre width included within 1 metre standard intercepts, a Sum Product weighted average was used.</li> </ul>
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> <li><i>These relationships are particularly important in the reporting of Exploration Results.</i></li> <li><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></li> <li><i>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').</i></li> </ul>	<ul style="list-style-type: none"> <li>All sampled intervals are reported and no lower cut is applied as campaign is a geological investigation of bulk grades of entire mineralised system.</li> </ul>
Diagrams	<ul style="list-style-type: none"> <li><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></li> </ul>	<ul style="list-style-type: none"> <li>The location and results received for diamond saw samples are displayed in the attached maps and/or Tables.</li> </ul>
Balanced reporting	<ul style="list-style-type: none"> <li><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></li> </ul>	<ul style="list-style-type: none"> <li>Results for all samples collected in this program are displayed on the attached maps and/or Tables.</li> </ul>
Other substantive exploration data	<ul style="list-style-type: none"> <li><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></li> </ul>	<ul style="list-style-type: none"> <li>No metallurgical or bulk density tests were conducted at the project.</li> </ul>
Further work	<ul style="list-style-type: none"> <li><i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li><i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>	<ul style="list-style-type: none"> <li>Further work is dependent on management review of the existing data.</li> </ul>