Stage 1 Drilling Doubles Footprint of Copper Porphyry System at Joshua Project, Chile.

Highlights

- **The Stage 1 (3000m) drilling program at the Joshua Project in Chile has more than doubled the known footprint of the copper sulphide-bearing porphyry system.**
- **Importantly this program has led to the development of a robust geological model for targeting mineralisation with higher copper grades in the broader target area.**
- **The known extent of the copper-bearing system now exceeds 1.5 square kilometers in area and remains open in all directions (less than 25% of the system, as defined by IP is drill tested).**
- **Multiple phases of overprinting porphyry (magmatic and hydrothermal) events have been identified, illustrating that a dynamic porphyry system is present at Joshua.**
- **First significant interval assaying above 0.5% Cu was confirmed last month (ASX Announcement 29 November 2018).**
- **The proportion of molybdenum associated with the copper is increasing to the east and northeast, a new and important observation.**
- **The final hole, hole 5 (JS18-005, EOH 600m), has been completed and ended in more sulphide-bearing dacitic porphyry rocks.**
- **Once all the assays have been received, MHC will be reviewing all data in the field in January 2019, to consider plans for the remaining stages of the JV agreement.**

Helix Resources Limited (ASX:HLX) (**Helix** or the **Company**) is pleased to provide an update for the diamond drilling program at the Joshua Porphyry Copper Project in Chile. Manhattan Corporation (ASX:MHC) is funding the cost of this exploration program as part of its **$1M Option commitment** under a Heads of Agreement ("HOA") entered into with Helix earlier this year.

The Manhattan funded holes (5) have more than doubled the size of the known footprint of the copper sulphide-bearing porphyry system to 1.5 square kilometres, and for the first time, a molybdenum-mineralised porphyry intrusion and a new overprinting phase of brecciation with higher copper grades (+0.5% Cu) have been intersected (ASX Announcement 29 November 2018).

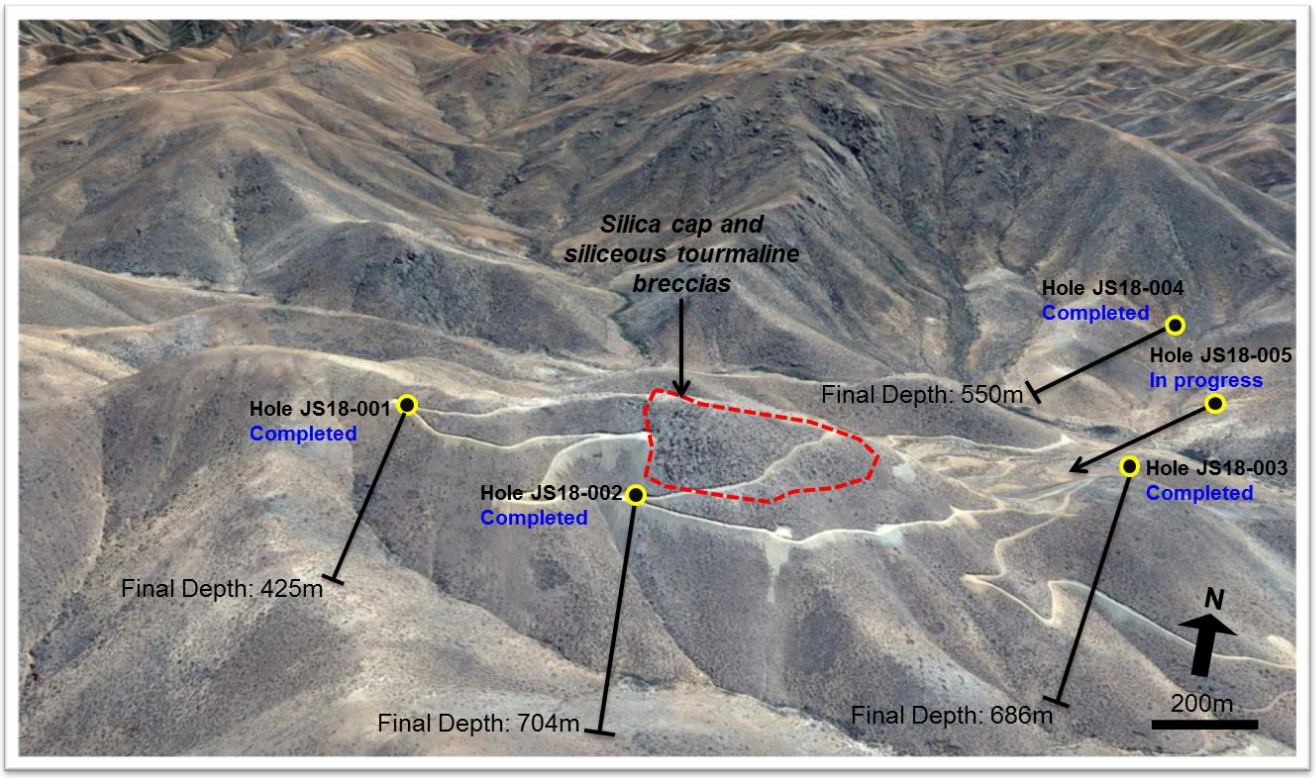

Figure 1 | Relative positions of 2018 drill holes at Joshua shown on north-looking Google image.

Drilling Update

Hole 4 (DDH JS18-004, EOH 550m), located 1.3km NE of hole 3, intersected over 100m of disseminated- and vein-style molybdenite (<0.05% molybdenite) in strongly silicified dacite porphyry. Peak results include 4m at 174ppm Mo from 298m (Figure 1), and also 178m at 0.19% Cu and 35ppm Mo from 222m, including 26m at 0.29% Cu and 25ppm Mo from 222m. Assay results for the remaining 55% of the hole are awaited.

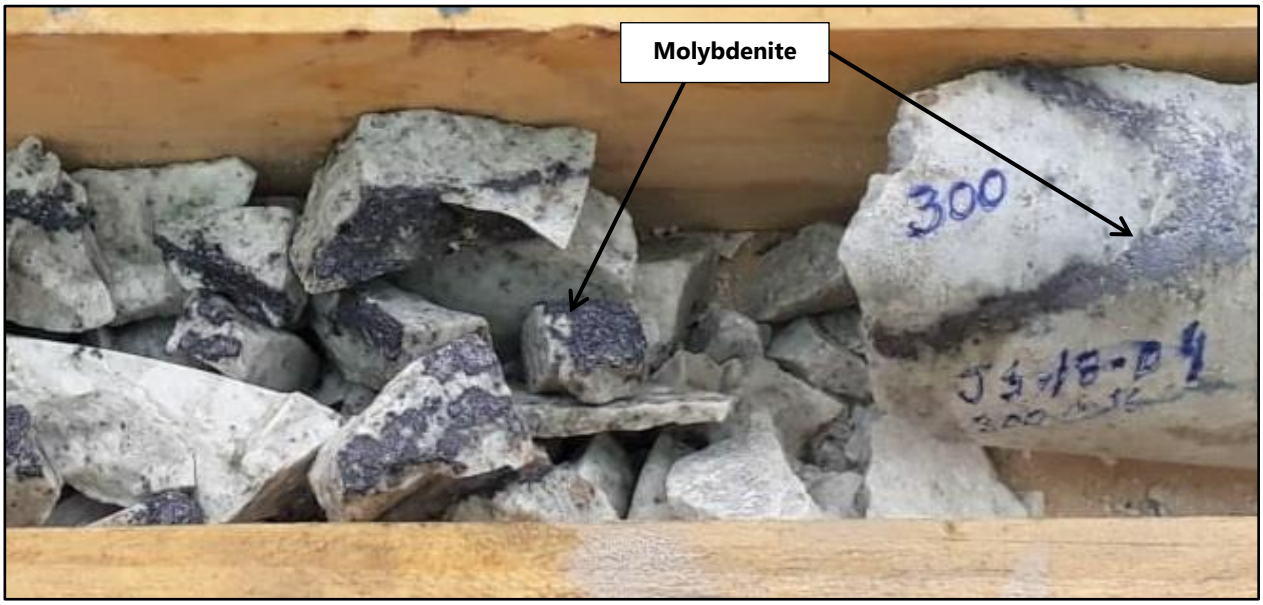

Photo 1 | Molybdenite veins in silicified dacite porphyry. Hole JS18-004, 298m to 302m. 4m at 174ppm Mo.

Significance

Our understanding of the metal associations and metal zonation trends within the Joshua porphyry copper system have improved considerably throughout the Stage 1 diamond drilling program. This has led to the development of a robust geological model (refer Figure 2) for targeting the higher copper grades (as seen in hole 3) within the broader zone of sulphide mineralised breccia (as seen in hole 2 and others).

Significantly, the system is multi-phase, with copper being upgraded in later hydrothermal events and with molybdenum grades (as an important potential by-product) increasing to the east and northeast.

A number of thick intercepts of lower grade copper sulphide mineralisation (0.1 to 0.2% Cu) have been drilled in 2018, with less than 25% of the overall system (as defined by the IP data) has been drill tested. An updated strategic plan will be developed on-site in Chile next month (January 2019) once all assay results have been received.

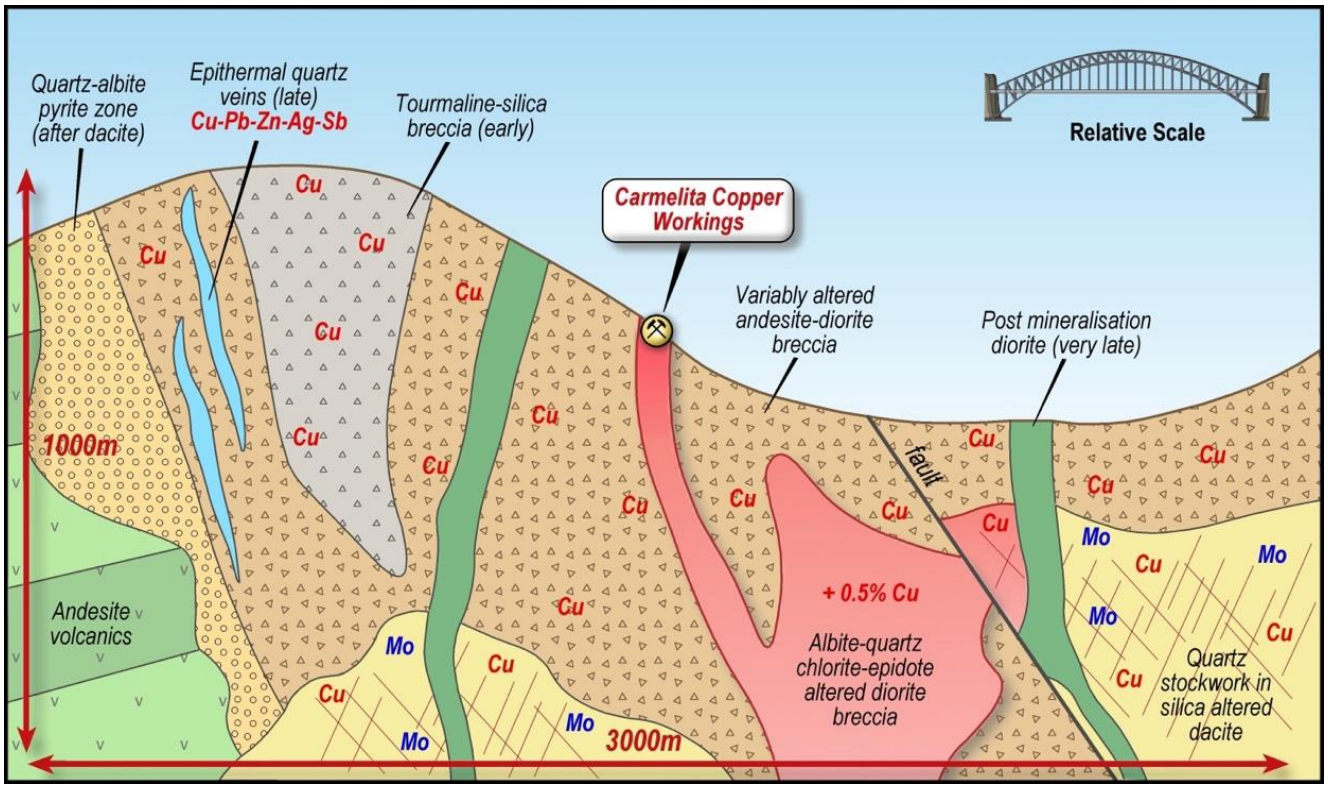

Figure 2 | Joshua Porphyry System - Interpreted schematic E-W geological model in E-W section.

Table 1. Diamond Drill Hole (DDH) Summary - 2018 (JS18 series, completed and in progress)

Hole ID (DDH)	East (WGS-84 19S)	North (WGS-84 19S)	RL (metres)	Depth (meters)	Angle (degrees)	Direction (magnetic)
JS18-001	320125	6613695	1571	425m EOH	-60	230
JS18-002	320360	6613400	1470	704m EOH	-70	180
JS18-003	321680	6613675	1154	686m EOH	-70	235
JS18-004	322760	6614400	1185	550m EOH	-70	315
JS18-005	322375	6614070	1095	135m (in progress)	-70	300

Coordinates: UTM WGS-84 19S EOH: End of Hole (final depth)

Table 2. Diamond Drill Hole (DDH) Assay Summary

Hole ID (DDH)	From (metres)	To (metres)	Interval (metres)	Results
JS18-002	46	308	262	0.15% Cu
JS18-002	incl. 238	308	70	0.21% Cu
JS18-002	340	364	24	0.14% Cu
JS18-002	590	598	8	0.12 % Cu
JS18-003*	544	574	30	0.36% Cu
JS18-003	incl. 546	562	16	0.51% Cu
JS18-004*	222	400	178	0.19% Cu, 35ppm Mo
JS18-004	incl. 222	248	26	0.29% Cu, 24ppm Mo

* Results from portions of JS18-003 and JS18-004 are awaited

Photo 2 A. | Silicified dacite porphyry containing molybdenite-bearing A-type quartz veins (hole JS18-004, 355m). Assays awaited.

Photo 2 B. Hydrothermal dacite breccia with albite rims on biotite-magnetite altered breccia clasts and with a sulphide-bearing chlorite matrix (hole JS18-003, 533m).

Photo 2 C. Hydrothermal dacite breccia with albite rims on breccia clasts and sulphide-bearing silica-chlorite matrix (hole JS18-003, 520m).

Photo 2 D. Sulphide-bearing hydrothermal dacite breccia with tourmaline matrix (hole JS18-002, 545m).

About the Joshua Copper Project

The Joshua Copper Project is located 350km north of Santiago in Chile's coastal porphyry copper belt. The 50 sq.km project area has all-year-round access and is favourably situated at low altitude, and close to infrastructure including ports, rail, roads and possible power and water solutions for any future mining scenarios.

The Joshua porphyry copper system is characterised by a regionally significant alteration anomaly (6.5km by 2km), centered on a zone of surface copper mineralization, brecciation and silica-tourmaline alteration. The broad alteration response at Joshua is similar to that of the Andacollo Cu-Au porphyry deposit located 45km to the northwest of the Joshua Project and operated by North American mid-cap company Teck.

The Joshua porphyry system is defined by a series of clustered porphyry intrusions within a broad NE-trending envelope of variably altered (propylitic, phyllic, argillic and potassic) Cretaceous andesite.

Copper sulphide orebodies are characteristically found within the high chargeability (+15mV/V) envelope in many world-class porphyry systems. At Joshua, these zones of high chargeability also correlate with zones of high and moderate IP resistivity, and high (magnetite alteration) and low (magnetite destruction in phyllic alteration) zones of magnetism. The five planned holes are broad-spaced and are to be collared along a 2.7km-long, NE-trending section.

The Joshua system was discovered by Helix in 2011. Drilling returned a number of significant copper intercepts, including 352m at 0.27% Cu, 240m at 0.22% Cu and 400m at 0.25% Cu[1].

On the 1 August 2018, Helix and Manhattan Corporation Limited announced that Manhattan had met the final pre-conditions of an option agreement with Helix. Manhattan can earn up to an 80% interest in the Joshua Porphyry Copper Project by free-carrying Helix to a Bankable Feasibility Study on the Project. Helix can elect to contribute at delivery of the BFS (20% equity) or choose to dilute to a 1% net smelter royalty.

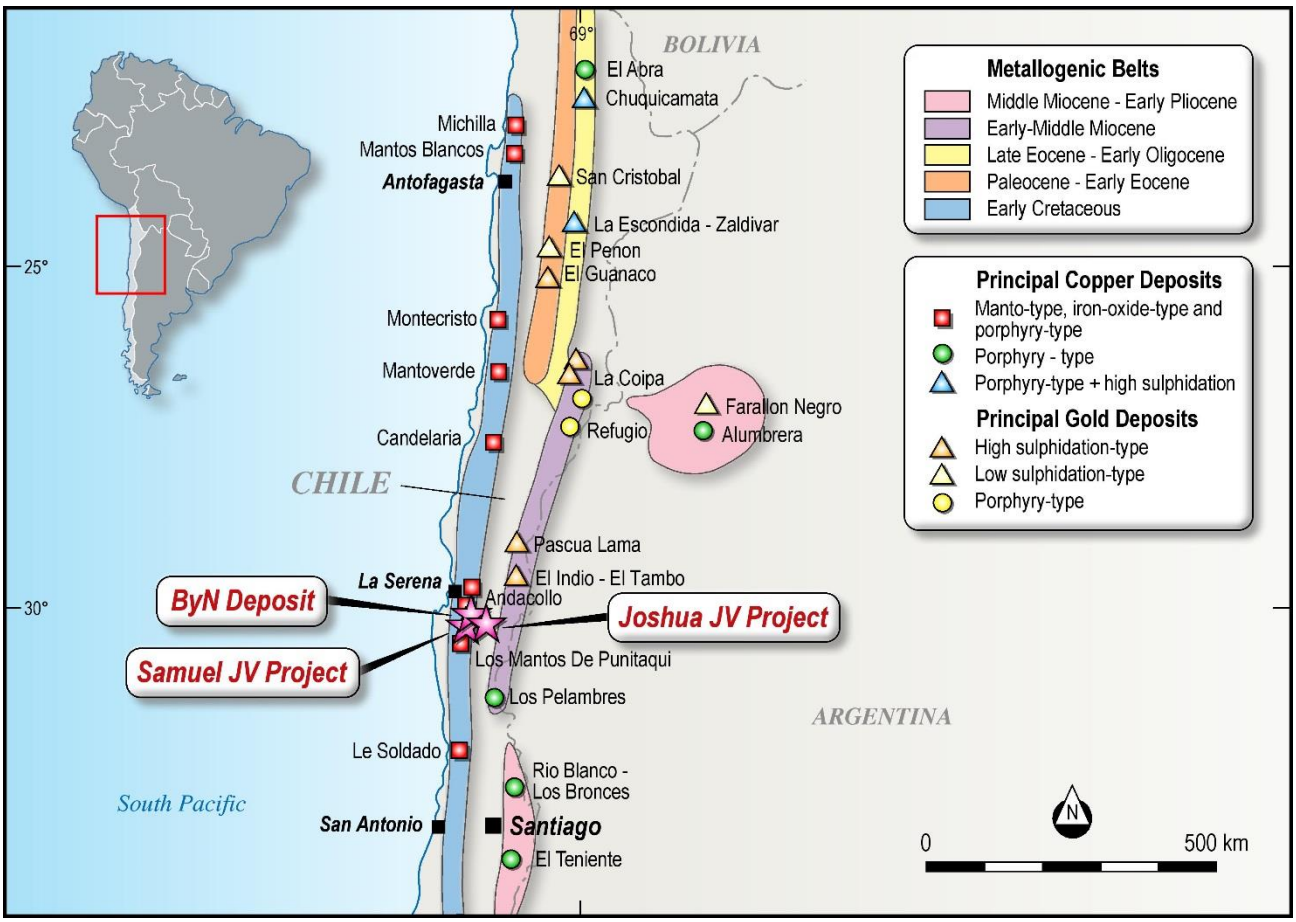

Figure 3 | Helix's Project Locations in the World-Class Chilean Copper Jurisdiction.

Key terms of the HOA

The HOA provides an avenue for Manhattan to earn up to an 80% interest in the Joshua Project in exchange for Helix being free-carried through to completion of a BFS.

Key terms of the HOA include:

- **Stage 1:** Helix has granted an option to Manhattan whereby Manhattan can exercise that option by sole funding expenditure of A$1.0 million on the Joshua Project within 9 months of the Commencement Date, such expenditure to be expended on 3,000m of diamond drilling (**Option**).
- If Manhattan exercises the Option by funding the requisite expenditure it shall have the right to earn up to an 80% interest in the Joshua Project on the following basis:
    - **Stage 2:** Manhattan may earn a 51% Joint Venture Interest in the Joshua Project by sole funding the expenditure necessary to complete a further 5,000m of drilling within 18 months of the Commencement Date.
    - **Stage 3:** If Stage 2 is completed, Manhattan may elect to earn a further 29% (giving it a total 80%) Joint Venture Interest by sole funding expenditure up to the completion of a BFS in respect of the Joshua Project.
- In the event that Helix chooses not to contribute to the Joint Venture after the completion of the BFS (Stage 3), it will dilute its Joint Venture Interest in exchange for an uncapped 1.0% Net Smelter Return royalty over the Joshua Project.
- Helix will be the Manager of the Joshua Project during Stage 1. Manhattan will be the Manager for Stages 2 and 3, unless Helix and Manhattan mutually agree that Helix is to be retained as Manager.

Exploration Portfolio Rationalisation

The Joshua Project forms part of Helix's ongoing portfolio rationalisation strategy, which includes the recently announced Samuel Project JV with JOGMEC (ASX announcement 3 September 2018) and the sale of the Company's Yalleen iron ore interests earlier this year (ASX announcement 15 January 2018).

During 2018 Helix has successfully secured exploration funding for both of its large Chilean copper projects (Joshua and Samuel), with the potential for in excess of $6 million to be spent on exploration at these projects over the next two and a half years (should both farm-in parties fulfill all of their farm-in obligations under the respective agreements).

This rationalisation process has facilitated exploration funding for the potential advancement of these Chilean copper projects. The outcome so far enables Helix to be free carried on two of its three Chilean copper projects (whilst ultimately retaining the right to appropriate project equity) at the same time as permitting Helix to maintain its focus towards its flagship NSW copper projects.

- ENDS -

For further information:

Mick Wilson
Managing Director
mick.wilson@helix.net.au
Ph: +61 8 9321 2644

Competent Persons Statement

The information in this announcement that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information reviewed by Mr M Wilson who is a full time employee of Helix Resources Limited and a Member of The Australasian Institute of Mining and Metallurgy. Mr M Wilson 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 2004 and 2012 Editions of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr M Wilson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Details of the assumptions underlying any Resource estimations are contained in previous ASX releases or at www.helix.net.au

[1] For full details of exploration results refer to previous ASX announcements 10 August 2011, 28 March 2012, 8 June 2012, 17 December 2015, 6 February 2016, 1 August 2018, 22 October 2018 and 29 November 2018 on Helix's website. Helix Resources is not aware of any new information or data that materially effects the information in this announcement

Forward-Looking Statements

This ASX release may include forward-looking statements. These forward-looking statements are not historical facts but rather are based on Helix Resources Ltd.'s current expectations, estimates and assumptions about the industry in which Helix Resources Ltd operates, and beliefs and assumptions regarding Helix Resources Ltd.'s future performance. Words such as "anticipates", "expects", "intends", "plans", "believes", "seeks", "estimates", "potential" and similar expressions are intended to identify forward-looking statements. Forward- looking statements are only predictions and are not guaranteed, and they are subject to known and unknown risks, uncertainties and assumptions, some of which are outside the control of Helix Resources Ltd. Past performance is not necessarily a guide to future performance and no representation or warranty is made as to the likelihood of achievement or reasonableness of any forward-looking statements or other forecast. Actual values, results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward- looking statements in this announcement speak only at the date of issue of this announcement. Subject to any continuing obligations under applicable law and the ASX Listing Rules, Helix Resources Ltd does not undertake any obligation to update or revise any information or any of the forward-looking statements in this announcement or any changes in events, conditions or circumstances on which any such forward looking statement is based.

No new information that is considered material is included in this document. All information relating to exploration results has been previously released to the market and is appropriately referenced in this document. JORC tables are not considered necessary to accompany this document

JORC Code Table

Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *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 sounds, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (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.*	**Drilling** • Chile-based commercial drilling contractors conducted the RC and DDH drilling (DV Drilling in 2011, 2012, 2018; TerraServices SA 2015) – a total of 21 holes for 8,468m Holes were orientated at various grid directions and were drilled at dips of between 60-90°.. • Drill hole locations were determined using a hand-held GPS. No down-hole surveys were conducted. • RC drill cuttings were collected in a cyclone and split on-site. First-pass sampling was conducted using 2m composites, followed in a few cases with subsequently resampling on 1m intervals. • Diamond core was sampled on 2m intervals, taking half or quarter core as a first pass and then with follow-up sampling at various intervals (=/<1m) to better understand particular lithological metal associations. • The samples were collected by either the Drilling Contractors (RC cuttings) and supervised at all times by Helix staff, or by Helix staff (diamond core). • The samples were under the direct control of Helix staff at all times and were transported to the laboratory by Helix staff. **Soils** • Soil samples (315) were collected in 2013 for Helix by experienced contract samplers under the direction of CSA Global staff. • Samples were collected at 200m intervals along lines 200m apart. • The samples were collected by digging and removing soil from shallow holes (~15cm deep). The soil from each sample pit was then sieved to minus 1mm and the recovered fraction analyzed by a licensed XFR Operator using a portable, hand-hand Olympus Delta XRF analyzer supplied from Australia by CSA Global, specifically for the job.

Criteria	JORC Code explanation	Commentary
		• The QA/QC data collected over the course of the program indicate no issues were encountered with the analytical method and assay results. • The data was collected and stored digitally in the field. **Rock Samples (including Rock Chip Samples)** • Rock samples were collected by Helix staff. • Each sample is a composite of approximately 5 pieces of rock collected within a 3m radius of the recorded sample point to give a total sample weight of approximately 2kg to 3kg. • The samples were secured in the company compound before being driven to the laboratory by Helix staff. • At the laboratory, the samples were crushed and pulverised using industry standards. • The laboratory's standard QA/QC procedures were carried out.
Drilling techniques	• *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.).*	• RC (2011) and DDH (2012, 2015, 2018) were the drilling methods chosen. • The RC holes were drilled with a 150mm face-sampling hammer using industry practice drilling methods. • Diamond HQ and NQ drill core was collected using double tube and all other industry practice methods.
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.*	• Sample weight and recoveries were observed during the drilling and any under-sized or over-sized drill samples were recorded. • Samples were checked by the geologist for volume, moisture content, possible contamination and recoveries. Any issues were discussed with the drilling contractor.
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a*	• A representative sample of the RC chips collected from each of the interval

Criteria	JORC Code explanation	Commentary
	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.*	sampled were logged and then stored in chip trays for future reference. • The drill core is stored in core trays in Ovalle, and comprehensively logged and sampled. • RC chips and drill core were logged for lithology, alteration, degree of oxidation, fabric, colour and occurrence and type of sulphide mineralisation. • All reference RC chips and drill core have been stored in the Helix secure compound in Ovalle, Chile. • Visual estimates of the proportion of sulphides: From systematic logging of NQ diamond drill core, the visual estimate of the total amount of sulphide (pyrite+chalcopyrite+molybdenite) in individual metre intervals ranges from 0.01% to 5%. The relative proportion of each sulphide species present in each metre interval is estimated to range from absent to 50% of the total amount of sulphide present. The amount of sulphide and the relative proportions of the sulphide species from metre to metre are highly variable and a detailed estimate of this variability is not possible within the limits of acceptable accuracy. The metal grades of the core shall be determined by assay. The sulphides occur as disseminations and randomly oriented, penetrative veins. The veins range from 0.1mm to 20cm thick. The sulphide is accompanied by one or more of the following gangue minerals in variable proportions: quartz, albite, chlorite, sericite, epidote and tourmaline. The visual estimates are estimates only and fine sulphide may be under-estimated, if present. Identification of the sulphide species and visual estimates of the proportions of those sulphide species present have been made by two geologists with more than 25 years experience each in porphyry copper mineralisation.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation*	• The preparation of DDH and RC samples follow industry practice. This involves oven drying, pulverization of total sample using LM5 mills until 85% passes 75 micron. • The laboratory's standard QA/QC procedures were carried out. • The sample sizes are considered appropriate to the grain size of the material being sampled. • Repeatability of assays was assessed and considered well with the tolerance

Criteria	JORC Code explanation	Commentary
	technique. • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	limits for the style of mineralisation under investigation.
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 (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.*	• All assays were conducted at accredited assay laboratories in Santiago, Chile (2011, 2012, 2018 by Andes Analytical Assay; 2015 by ALS Chemex). • The analytical technique used for base metals was a mixed acid digest with an MS determination of metal concentrations. Gold was assayed by fire assay and aqua regia methods. • Laboratory QA/QC samples involving the use of blanks, duplicates, standards (certified reference materials) and replicates as part of in-house procedures. • Helix and Manhattan are not aware of any new information or data that materially effects the information in these announcements.
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*	• Results have been verified by Helix and Manhattan Company management. • Geological data was collected using handwritten log sheets, which detailed geology (weathering, structure, alteration, mineralisation), sample quality, sample interval, sample number and QA/QC inserts (standards, duplicates, blanks) into the numbering sequence. This data, together with the assay data received from the laboratory, and subsequent survey data were entered into a

Criteria	JORC Code explanation	Commentary
	(physical and electronic) protocols. • *Discuss any adjustment to assay data.*	secure Access databases and verified.
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.*	• The drill collar positions were determined using a GPS (±5m). • Grid system is WGS-84 Zone 19S. • Surface RL data collected using GPS. • Variation in topography is approximately 400m within the drill zone. • All drill pads are also visible on Google Earth images.
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.*	• Drill holes were positioned to test specific parts of a porphyry copper system and designed to intersect rocks lying beneath either anomalous surface features such as rock alteration (silica, tourmaline, sericite, chlorite, magnetite, clay) and/or high metal concentrations (copper, molybdenum), or IP anomalies (zones of high resistivity and/or chargeability). • No drilling had been conducted by anyone on the Joshua Project prior to Helix commencing drilling operations in 2011. • Four phases of drilling have subsequently been conducted (#1: RC in 2011 #2: diamond drilling in 2012, #3: diamond drilling in 2015, #4 diamond drilling in 2018). • The drilling has been conducted in a manner consistent with the procedures set out in this JORC table. • Drilling phases 1 & 2 were conducted for Helix. Phase 3 was completed by IMG Contractors on behalf of EPG Partners as part of an Option Agreement to earn an interest in the Joshua Project (since expired). Phase 4 drilling (Sept to Dec 2018) was supervised by Helix for Manhattan Corporation Limited as part of an Option Agreement. • Helix staff supervised all drilling.
Orientation of data in relation to geological	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*	• Surface sampling and the position of the drill holes and sampling techniques and intervals are considered appropriate for the early-phase exploration of a large porphyry system with bulk-tonnage copper sulphide potential. • The distribution of copper is known to be variably enriched and depleted within

Criteria	JORC Code explanation	Commentary
structure	• *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.*	an overall porphyry copper system. The relatively small area drilled to date (700m by 600m) is not sufficient to suggest a positive or negative bias, and the large hydrothermal system at Joshua, as defined by the ASTER alteration mapping (6.5km by 2km), has yet to be fully investigated on the ground because of the large areal extent of the system.
Sample security	• *The measures taken to ensure sample security.*	• Chain of Custody is managed by Helix staff and its contractors. The samples were freighted directly to the laboratory with appropriate documentation listing sample numbers, sample batches, and required analytical methods and element determinations.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• No additional QA/QC has been conducted for the drilling 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.*	• The Joshua Project is located on concessions Joshua 1-17. Helix owns the project 100%, with Manhattan having the right to earn an interest in the project of up to 80% by delivering a Bankable Feasibility Study. • The mineral concessions are in good standing and payment of statutory fees is managed for Helix and Manhattan by a Land Management Consultant in Santiago, Chile. • This is no statutory, minimum, annual expenditure commitment for exploration and mining titles in Chile. • There are no known impediments to operating in this area. • The drill area is situated at a relatively low altitude for Chile (<1800m) and can be accessed all year round.

Criteria	JORC Code explanation	Commentary
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	• No previous modern exploration has occurred at Joshua prior to Helix's involvement commencing in 2010. • A number of small artisanal mines and working are present throughout the district.
Geology	• *Deposit type, geological setting and style of mineralisation.*	• The project is considered to be prospective for copper (gold-molybdenum) porphyry-style mineralisation.
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:* • *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.*	• Refer to Helix's previous announcements dated 10 August 2011, 28 March 2012, 8 June 2012, 17 December 2015 and 6 February 2016. • Helix and Manhattan are not aware of any new information or data that materially effects the information in these announcements. • A portion of the results have been included in this announcement as indicative of previous drilling results for information purposes only. • The zoned to be drilled under the auspices of the Manhattan Option Agreement will be 1) step-outs from earlier mineralised drill intercepts, and 2) the testing of new anomalous zones (IP anomalies, surface geochemical anomalies, alteration anomalies) within the much broader Joshua porphyry system.
Data aggregation methods	• *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.* • *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*	• Refer to Helix's previous announcements dated 10 August 2011, 28 March 2012, 8 June 2012, 17 December 2015 and 6 February 2016. • Helix and Manhattan are not aware of any new information or data that may materially effects the information in these announcements.

Criteria	JORC Code explanation	Commentary
	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 (e.g. 'down hole length, true width not known').*	• The drilling was initially designed to 'prove concept' that a large, porphyry copper system is present at Joshua. • The geology (lithological associations, metal associations, alteration zonation patterns) has been determined to be consistent with that of a large porphyry system. • The initial three phases of drilling (2011, 2012, 2015) were also designed to investigate the potential for copper mineralisation beneath the outcropping copper exposed in the silica cap and hydrothermal breccias on surface. • Porphyry copper systems are generally broad in all dimensions and mineralised drill intercepts are generally treated as true-widths given the size of the system and the pervasive nature of the mineralisation (100's of metres wide and thick).
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.*	• Refer to Figure 2, 3 and 4 in MHC ASX announcement titled: Manhattan Signs Landmark Agreement on Joshua Copper Project dated 8 June 2018. • Refer to Manhattan announcements dated 7 September 2018, 9 October 2018, 22 October 2018 and 29 November 2018. • Helix and Manhattan are not aware of any new information or data that materially effects the information in these announcements.
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.*	• Refer to Helix's previous announcements dated 10 August 2011, 28 March 2012, 8 June 2012, 17 December 2015 and 6 February 2016. • Refer to Manhattan announcements dated 7 September 2018, 9 October 2018, 22 October 2018 and 29 November 2018. • Helix and Manhattan are not aware of any new information or data that materially effects the information in these announcements.
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*	• **ASTER**: PhotoSat Information Ltd conducted the remote-sensing mineral alteration study in March 2018. ASTER (Advanced Spaceborne Thermal Emission and Reflection Radiometer) is an imaging instrument flying on Terra, a satellite launched in December 1999 as part of NASA's Earth Observation System. Band widths in the Visible to Near-Infrared, Shortwave Infrared and Thermal Infrared

Criteria	JORC Code explanation	Commentary
	method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	are measured. Diagnostic combinations (ratios) of these bands are then used to characterize and map the areal extend of Iron Oxide, Hydroxyl, Kaolinite-Alunite, Sericite and Silica alteration zones. • **Induced Polarisation (IP) Survey:** A pole-dipole IP survey was conducted for Helix by Quantec Geoscience in 2011. The data was collected on 100m centres along E-W lines spaced 200m apart using Industry best practices for data collection and processing. • **Aeromagnetics:** A drone-borne aeromagnetic survey was conducted by GFDas Geofisica UAV over an area of approximately 25sq. km. in August 2018 for Helix as part of the Manhattan Option work program. The drone was fitted with a fluxgate magnetometer. Flight lines: N-S and 50m apart. Tie-lines: E-W and 1000m apart. The survey was designed to cover the entire ASTER alteration anomaly. Elevation difference across the survey area: 850m. Total flight lines: approx. 500km. Average altitude: 1,200m. System Name: GeoMagDrone™. The data has been imaged by Southern Geoscience Consultants in Perth, Western Australia.
Further work	• *The nature and scale of planned further work (e.g. 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.*	• Manhattan is compiling, assessing and reviewing all data from their 2018 diamond drilling program and will decide on whether to proceed to the second stage of drilling (Stage 2, 5000m diamond drilling within 18 months) in early 2019. • Drill core assay results are still being received from the 2018 drilling program, and all results are expected before the end of 2018. • Refer to Manhattan announcements dated 8 June 2018, 26 June 2018, 1 August 2018, 3 September 2018, 7 September 2018, 9 October 2018, 22 October 2018 and 29 November 2018 for additional information. Manhattan is not aware of any new information that materially changes the results and information reported in these announcements.