

Exploration Drilling Update Joshua Copper Project – Chile

Highlights

Planned 3,000m diamond drilling is 28% complete, with the second hole (JS18-002) in progress

- □ Hole 2 (JS18-002) is at 434m (planned to 700m) and is intersecting disseminated- and vein-style sulphide (pyrite, chalcopyrite, molybdenite)* in altered andesite and diorite porphyry from 34m down-hole.
- □ Half core samples from the first hole will be despatched for assay this week.
- □ High-resolution aeromagnetic survey data has also been received from the drone-based survey. This data, along with ground geological and ASTER alteration mapping have been used to define 3 distinct porphyry systems at Joshua
 - First three holes (hole 1 completed, hole 2 in progress, hole 3 planned) are testing new targets within Porphyry System 1 (PS-1)
 - 3000m Program includes first-ever holes in Porphyry System 2 (PS-2), holes 4 and 5 in the current program.
- □ Manhattan Corporation (ASX:MHC) is funding this exploration program as part of its commitment under a Heads of Agreement ("HOA"), with Helix's Chilean technical team managing the work.
- □ The exploration program is seeking to define new zones of primary and secondary (supergene) copper sulphide mineralisation within the broader Joshua porphyry system.

Helix Resources Limited (ASX:HLX) (**Helix** or the **Company**) is pleased to provide an update for the 3000m 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 option commitment under a Heads of Agreement ("HOA") entered into with Helix earlier this year.

Diamond Drilling

The Stage 1 3,000m diamond drilling program at the Joshua Porphyry Copper Project in Chile is approximately 28% complete. Holes 1 and 2 are being completed west of the silica cap (and previous Helix drilling) into new targets, with remaining holes planned to test zones in the valley east of previous drilling (Figure 1).

Managing Director Mick Wilson said: "This exploration program continues to illustrate the potential scale of the Joshua Porphyry Copper system. Both the new drilling and the recent aeromagnetic survey have expanded our knowledge, and we are very encouraged that the initial two holes of drilling are intersecting multiple porphyry events to the west of the previous work. The 3000m diamond drilling program is giving the JV an opportunity to target new zones for economic copper mineralisation, testing several new targets areas within the Joshua Project."

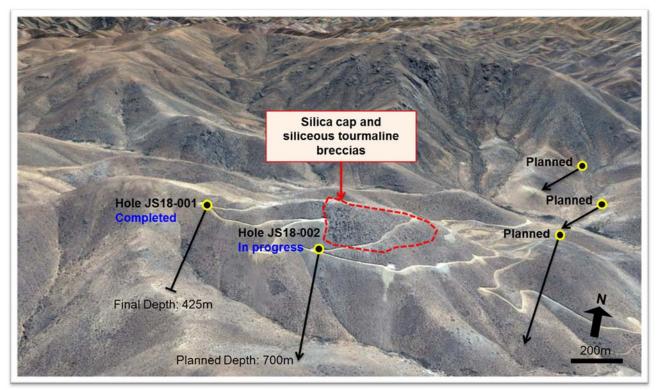


Figure 1 | Relative positions of Manhattan drill holes (completed, in progress and planned) at Joshua shown on northlooking Google Map image.

Hole 1 (DDHJS18-001) was terminated at 425m after intersecting a number of post-mineralisation diorite dykes in the strongly altered (quartz-sericite-pyrite) andesite porphyry. Samples from this hole will be despatched to the laboratory in Santiago for assay this week.

Hole 2 (DDHJS18-002), which is targeting an Induced Polarisation (IP) anomaly (high chargeability/high resistivity), is currently at 434m (planned to 700m). Disseminated- and vein-style sulphide (pyrite, chalcopyrite, molybdenite)* in altered andesite porphyry and diorite porphyry have been logged from 34m down-hole to the depth of drilling at reporting 434m (for examples of porphyry mineralisation refer to photos in Figure 2). This sulphide mineralisation is associated with chlorite-sericite alteration that overprints an earlier biotite-magnetite (potassic) alteration event. It is anticipated that this hole will continue to intersect porphyry type lithologies as the target depth is approached.



Figure 2 | *Quartz-pyrite-chalcopyrite-molybdenite vein* (1cm wide) in andesite porphyry (hole JS18-002, 164m).



Quartz-tourmaline-pyrite-chalcopyrite vein in strongly altered dacite porphyry (hole JS18-002, 278m).

Diamond Drill Hole Summary - 2018 (DDHJS18 series, completed or in progress)						
Hole ID	East (WGS-84 19S)	North (WGS-84 19S)	RL (metres)	Depth (meters)	Angle (degrees)	Direction (magnetic)
DDHJS18-001	320125	6613695	1571	425m EOH	-60	230
DDHJS18-002	320360	6613400	1470	434m (in progress)	-70	180
Coordinates: UTM WGS-84 19S						

Coordinates: UTM WGS-84 19S

* Note 1. In hole 2 (JS18-002) from 34m to 434m (depth at time of reporting), and from systematic logging of the 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 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 and visual estimates of the proportions 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.

Aeromagnetic Survey

The high-resolution aeromagnetic survey data collected using drone technology has been received and processed (refer Appendix 1 JORC Table 1 for survey specifications). This data, along with ground-based geological mapping and satellite-based ASTER alteration mapping have been used to define a new target in the west of the project area for a total of 3 porphyry systems associated with copper mineralisation at Joshua (Figure 3).

- □ **Porphyry System 1 (PS-1)** Helix (2011, 2012, 2015) has previously reported a number of significant copper intercepts from PS-1, including 352m at 0.27% Cu, 240m at 0.22% Cu and 400m at 0.25% Cu. The Stage 1 programs first three holes are testing new targets within PS-1.
- □ **Porphyry System 2 (PS-2)** will be drilled in November 2018 for the first time. Soil geochemistry (robust copper anomaly peaking at 2569ppm Cu) and IP data, and the recently acquired aeromagnetic data, have all been used to plan holes 4 and 5 in the current program
- □ **Porphyry System 3 (PS-3)** is a newly defined target located in the western part of the project area. An intensely veined porphyritic dacite (quartz-albite A-type veins, Figure 4) is spatially associated with a copper working located immediately to the SW of the porphyry (Figure 3). Strong phyllic alteration (silica-sericite-pyrite), potassic alteration (biotite-magnetite) and zones brecciation have also identified.

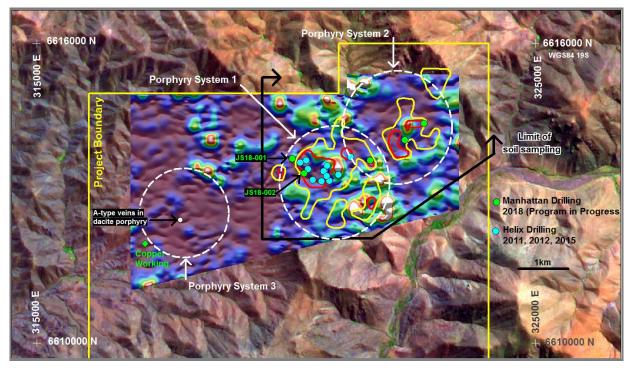


Figure 3 | Imaged aeromagnetic data (analytic signal) showing Helix copper soil anomalies (yellow: +150ppm Cu, red: +500ppm Cu, refer Table 1 for survey details), location of historical drill holes (pale blue dots) and Manhattan funded drill holes (green dots) and the interpreted location of the three porphyry systems present within the Joshua Project Area.



Figure 4 | Porphyry System 3: A-type quartz-albite veins in dacite porphyry located within the vicinity of recently located copper working (refer to Figure 3 above for locations).

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 preconditions 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.

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.

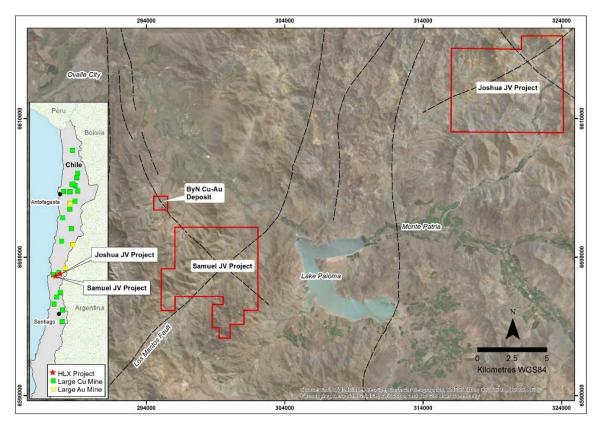


Figure 5 | Helix's Chilean Project Locations, Region IV, Chile.

Exploration Portfolio Rationalisation

The Joshua JV 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 -

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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 and 1 August 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 statements in this announcement or any changes in events, conditions or circumstances on which any such forward looking statements 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 1

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; TerraServices SA 2015) – a total of 16 holes for 5,504.2m Holes were orientated at various grid directions and were drilled at dips of between 60-90°. DV Drilling is conducting the DDH drilling - September to December 2018. 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 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

Criteria	JORC Code explanation	Commentary
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.).	 CSA Global, specifically for the job. 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. RC (2011) and DDH (2012, 2015, 2018 – in progress) 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 undersized 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.

Criteria	JORC Code explanation	Commentary
Logging	 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. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography. The total length and percentage of the relevant intersections logged. 	 A representative sample of the RC chips collected from each of the interval sampled were logged and then stored in chip trays for future reference. The drill core was stored in core trays 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 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 present have been made by two geologists with more than 25 years experience each in porphryr 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. 	 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

Criteria	JORC Code explanation	Commentary
	 For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is 	 being sampled. Repeatability of assays was assessed and considered well with the tolerance limits for the style of mineralisation under investigation.
	 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. 	
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 	 All assays were conducted at accredited assay laboratories in Santiago, Chile (2011, 2012, 2018 – planned): Andes Analytical Assay AAA; 2015 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	 laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. The verification of significant intersections by 	Results have been verified by Helix Company management.
of sampling and assaying	<i>either independent or alternative company personnel.</i><i>The use of twinned holes.</i>	 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,

Criteria	JORC Code explanation	Commentary
	 Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	blanks) into the numbering sequence. This data, together with the assay data received from the laboratory, and subsequent survey data were entered into a secure Access databases and verified.
<i>Location of data points</i>	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. 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.
<i>Data spacing and distribution</i>	 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. Three phases of drilling have subsequently been conducted (#1: RC in 2011 #2: diamond drilling in 2012, #3: diamond drilling in 2015). The drilling planned for Sept to Dec 2018 (in progress) and will be 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). Helix supervised this drilling. Phase 4 drilling (Sept to Dec 2018) is being supervised by Helix for Manhattan Corporation Limited as part of an Option Agreement.
<i>Orientation of data in relation to geological</i>	• 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
<i>Mineral tenement and land tenure status</i>	 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.	
<i>Relationship between mineralisation widths and intercept lengths</i>	 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. Manhattan is 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. Helix and Manhattan are not aware of any new information or data that materially effects the information in these announcements.
<i>Other substantive exploration data</i>	 Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, 	• 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 are measured. Diagnostic combinations (ratios) of these bands are then used to characterize and map the areal extend of Iron Oxide, Hydroxyl, Kaolinite-

Criteria	JORC Code explanation	Commentary
	geotechnical and rock characteristics; potential deleterious or contaminating substances.	 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 funding a minimum A\$1m program to deliver 3,000m of DDH drilling at Joshua targeting new areas surrounding the previous work conducted by Helix. The drilling program commenced in September 2018 and will take approximately 3 months to complete. Drill core assay results will be received progressively during the drilling program and it is anticipated that all results will be received before the end of 2018. Refer to Manhattan announcements dated 8 June 2018, 26 June 2018, 1 August 2018, 3 September 2018 and 7 September 2018 for additional information. Manhattan is not aware of any new information that materially changes the results and information reported in these announcements.