

MORE EXCEPTIONAL METALLURGICAL RESULTS FROM McDERMITT

- Excellent lithium (Li) extraction rates from acid leaching of beneficiated McDermitt ore
- Li extraction from composite samples averaged 93% (250µm) and 94% (75µm)
- Li extraction from all units exceeds 98% with higher acid additions
- Leaching of a bulk sample is underway to enable downstream testwork
- Samples have been shipped to POSCO for parallel leach testwork

In mid-November 2023, Jindalee Lithium Limited (**Jindalee**, the **Company**) announced results from beneficiation of composite samples from the Company's 100% owned McDermitt Lithium Project located in Oregon, USA, and noted that acid leaching of beneficiated samples was underway¹.

Samples of ore were beneficiated with a cut-size of 250-micron (µm). Material passing was either leached directly ("250µm leach feed") or ground further so that all passed 75µm ("75µm feed").

Jindalee is pleased to advise that initial results from acid leaching of the beneficiated samples have been received, with extremely high lithium extraction rates recorded from both the 250µm and 75µm leach feeds using 500kg sulphuric acid per tonne of leach feed. The 250µm leach feed was also leached with a higher strength acid (850 kg/t leach feed) and returned exceptional extraction rates (>98.5%) for all units (Table 1).

| Unit | Cut Size (µm) | Leach Feed (100% passing µm) | Li Extraction (500 kg/t) | Li Extraction (850 kg/t) |
|-----------|---------------|------------------------------|--------------------------|--------------------------|
| 4 | 250 | 250 | 96.8% | 98.7% |
| | | 75 | 99.1% | N/A |
| 6 | | 250 | 91.9% | 99.1% |
| | | 75 | 92.1% | N/A |
| 8 | | 250 | 91.5% | 99.0% |
| | | 75 | 90.7% | N/A |
| 10 | | 250 | 89.2% | 100.0% |
| | | 75 | 88.0% | N/A |
| Composite | | 250 | 92.9%* | N/A |
| | | 75 | 94.0% | N/A |

Table 1 – Maximum Lithium Extraction at variable feed sizes and acid strengths - Units 4, 6, 8 and 10 (* calculated)

The leach testwork extended for up to four hours with most of the Li extraction occurring in the first hour. Optimised lithium extraction and acid addition rates will be incorporated into the Pre-Feasibility Study (PFS).

Leaching of a bulk composite has commenced to provide lithium in solution for downstream testwork. Beneficiated samples (250µm) have also recently been shipped to POSCO Holdings (NYSE: PKX) (POSCO) for testwork, pursuant to the Memorandum of Understanding signed with POSCO in February 2023⁴.

Discussion

In July 2023 Jindalee shipped approximately 700kg of drill core to Hazen (Colorado, USA) for metallurgical testing, with this testwork being managed by global engineering, procurement, construction and maintenance (EPCM) company Fluor Corporation (Fluor). The core samples were selected from Units 4, 6, 8 and 10 within the Indicated portion of conceptual Pit Shell 6 (nominal 43 years); these units carry elevated lithium grades and selective mining of these units has the potential to deliver significantly higher-grade material (when compared to the Mineral Resource Estimate average grade) for processing (Figure 1) (Table 2)².

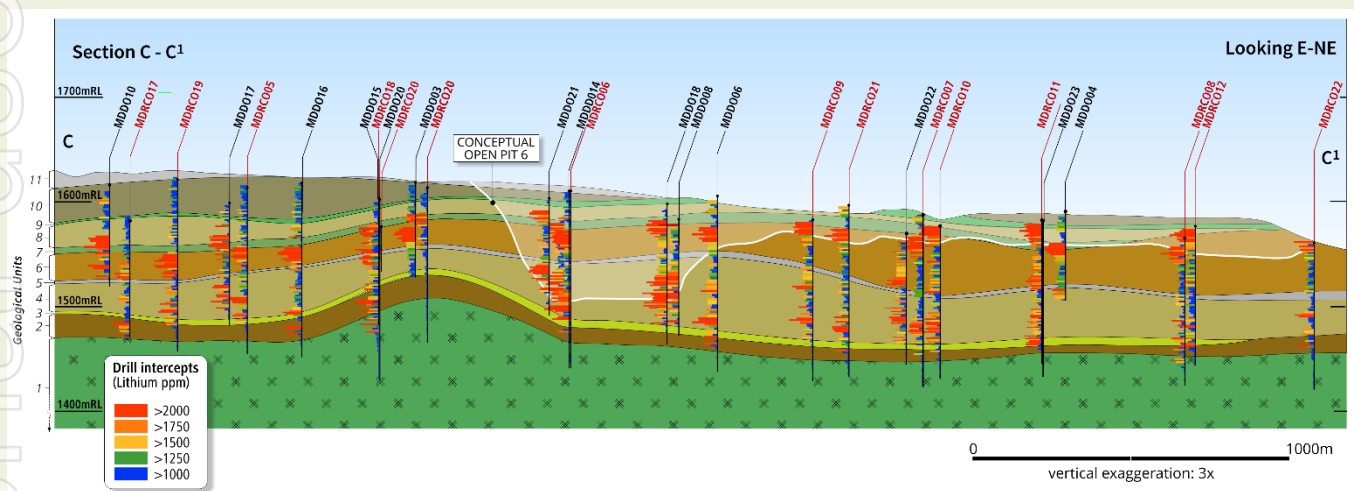


Figure 1 – Schematic Section C-C' with completed drilling, simplified geology and conceptual Pit Shell 6 (nominal 43 years). (Note: lateral projection onto section plane and 3x vertical exaggeration may cause distortion)

Head assays for these samples were announced in October 2023³ with Units 4, 6, 8 and 10 averaging 1,790 ppm Li, 34% higher than the average McDermitt Mineral Resource grade (1,340 ppm Li)². Results from attrition scrubbing (beneficiation) of a composite sample of McDermitt ore (250µm cut-size) were announced mid-November 2023, recording 92.0% Li recovery with 25.3% mass rejection and the lithium grade to leach increasing to 2,107 ppm Li¹.

The acid leaching testwork now being reported was conducted on both 250µm and 75µm leach feed sizes using 500 kg/t (and 850 kg/t for 250µm leach feed). A composite sample (representing a nominal life-of-mine average feed) was also tested using the two leach feed sizes, recording very high lithium extraction rates using 500 kg/t. Lithium extraction from the coarser (250µm) leach feed was 92.9% and compares favourably with the extraction rate (94.0%) achieved from the finer (75µm) leach feed (Table 1).

Next Steps

Acid leaching of a bulk composite sample is currently underway to provide lithium in solution for downstream work. Results from this testwork will feed into the PFS which is expected to be completed mid-2024.

Samples from Units 4, 6, 8 and 10 have been beneficiated (250µm) and shipped to POSCO for parallel leach testwork, pursuant to the Memorandum of Understanding signed with POSCO.

Authorised for release by the Jindalee Board of Directors.

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| Cut-off Grade (ppm Li) | Indicated Resource | | | Inferred Resource | | | Indicated and Inferred Resource | | |
|------------------------|--------------------|----------------|----------|-------------------|----------------|----------|---------------------------------|----------------|----------|
| | Tonnage (Mt) | Li Grade (ppm) | LCE (Mt) | Tonnage (Mt) | Li Grade (ppm) | LCE (Mt) | Tonnage (Mt) | Li Grade (ppm) | LCE (Mt) |
| 1,000 | 1,470 | 1,420 | 11.1 | 1,540 | 1,270 | 10.4 | 3,000 | 1340 | 21.5 |

Table 2 – Summary of 2023 McDermitt Mineral Resource Estimate at the reporting cut-off of 1,000ppm. Note: totals may vary due to rounding. (Lithium carbonate equivalent (LCE) is calculated by taking the lithium value and multiplying by 5.323 to determine the molar equivalent in standard industry fashion).

References

1. Jindalee Lithium ASX announcement 15/11/2023: “Exceptional Metallurgical Results from McDermitt”
2. Jindalee Lithium ASX announcement 27/02/2023: “Resource at McDermitt increases to 21.5 Mt LCE”
3. Jindalee Lithium ASX announcement 23/10/2023: “First Results from Metallurgical Testwork at McDermitt”
4. Jindalee Lithium ASX announcement 13/02/2023: “MOU Executed with POSCO Holdings”

About Jindalee

Jindalee Lithium Limited (ASX: JLL) is a pure-play US lithium company focussed on the development of the giant McDermitt Lithium Project (21.5 Mt LCE²), currently the largest lithium deposit in North America. Jindalee also provides shareholders with indirect exposure to lithium, gold, base and strategic metals, iron ore, uranium and magnesite in Australia through holdings in spin-out companies Dynamic Metals (ASX: DYM) and Energy Metals (ASX: EME).

Competent Persons Statement

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Lindsay Dudfield. Mr Dudfield is a director and shareholder of, and consultant to, the Company and a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Dudfield has sufficient experience relevant to the styles of mineralisation and types of deposits under consideration, and to the activity being undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves.’ Mr Dudfield consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.

The Company confirms that it is not aware of any further new information or data that materially affects the information included in the original market announcements by Jindalee Lithium Limited referenced in this report and in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. To the extent disclosed above, the Company confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcements.

Forward-Looking Statements

This document may contain certain forward-looking statements. Forward-looking statements include but are not limited to statements concerning Jindalee Lithium Limited’s (Jindalee’s) current expectations, estimates and projections about the industry in which Jindalee operates, and beliefs and assumptions regarding Jindalee’s future performance. When used in this document, the words such as “anticipate”, “could”, “plan”, “estimate”, “expects”, “seeks”, “intends”, “may”, “potential”, “should”, and similar expressions are forward-looking statements. Although Jindalee believes that its expectations reflected in these forward-looking statements are reasonable, such statements are subject to known and unknown risks, uncertainties and other factors, some of which are beyond the control of Jindalee and no assurance can be given that actual results will be consistent with these forward-looking statements.

Annexure A:

JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

| Criteria | JORC Code explanation | Commentary |
|-----------------------|---|--|
| Sampling techniques | <ul style="list-style-type: none"> • <i>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.</i> • <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i> • <i>Aspects of the determination of mineralisation that are Material to the Public Report.</i> • <i>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.</i> | <ul style="list-style-type: none"> • Diamond drilling was used to collect HQ triple tube (HQ3 63.5mm) diameter core. • Core was cut and quarter core sampled on 1.5m intervals or lithological and/or alteration boundaries. • Colluvium/overburden was not sampled. • All samples were placed into individually labelled, consecutively numbered sample bags. • Metallurgical test work samples were a composite sample of quarter core or coarse rejects from the previously conducted geochemical assaying and are believed to be representative of the interval under investigation. • The samples (approximately 700kg total) came from holes MDD004, MDD006, MDD012, MDD018, MDD023 and MDD026 with samples taken from Units 4, 6, 8 and 10 within the Indicated portion of conceptual Pit Shell 5 (nominal 0-20 years). |
| Drilling techniques | <ul style="list-style-type: none"> • <i>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).</i> | <ul style="list-style-type: none"> • Diamond drilling was used to collect HQ3 (63.5mm) diameter core. • Core holes were drilled vertically, and core was not oriented. |
| Drill sample recovery | <ul style="list-style-type: none"> • <i>Method of recording and assessing core and chip sample recoveries and results assessed.</i> • <i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i> • <i>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.</i> | <ul style="list-style-type: none"> • Core blocks inserted by the drilling company indicated the length of a run and the amount of recovered core in feet. The site geologist converted this to metres and core recovery was recorded on the sampling sheet. Core recovery was the primary focus for the drill contractor and was typically >90% in the zones of interest. • Core recovery was recorded by the site geologist, and 1m downhole depths marked prior to geological logging and sampling. • No relationship between recovery and grade was observed, no core loss was observed over the interval under investigation. |

| Criteria | JORC Code explanation | Commentary |
|--|--|---|
| Logging | <ul style="list-style-type: none"> • 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. | <ul style="list-style-type: none"> • Qualitative lithological descriptions were recorded by the field geologist once core had been presented and depths marked. Correlation of this information to the field mapping and stratigraphic sections described in the immediate area is ongoing to build a comprehensive picture of the geology over the project area. • Photos (wet and dry) were taken of all core trays for later review. |
| Sub-sampling techniques and sample preparation | <ul style="list-style-type: none"> • If core, whether cut or sawn and whether quarter, half or all core taken. • If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. • For all sample types, the nature, quality and appropriateness of the sample preparation technique. • 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. | <ul style="list-style-type: none"> • Core was cut, and quarter core sampled over 2m intervals. • The samples were individually crushed to 70% passing less than 2mm, and 500g sub samples were riffle split off by ALS Laboratories in Reno, Nevada with the remaining samples (coarse residues) averaging approximately 1.7kg each. • Quarter core and the coarse residue samples from ALS Laboratories were forwarded to Hazen Research Inc. in Golden, Colorado (Hazen) where they were crushed to 100% passing 1.7mm before compositing to be used for the metallurgical testwork documented in this announcement. |
| Quality of assay data and laboratory tests | <ul style="list-style-type: none"> • The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. • For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. • Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. | <ul style="list-style-type: none"> • Samples were originally assayed by ALS Laboratories in Reno, Nevada via a 4-acid digest of a 0.25g sample split with a 48 element ICP-MS finish as previously reported. • Hazen analysed the head sample for Li and a range of other elements using 4-acid digest and peroxide fusion digest with the digested solution analysed by ICP-OES. • Laboratory QAQC involves the use of internal lab standards, splits and replicates as part of in-house procedures. Hazen participates in numerous external umpire assessments to maintain high levels of QAQC in relation to their peers. |
| Verification of sampling and assaying | <ul style="list-style-type: none"> • The verification of significant intersections by either independent or alternative company personnel. • The use of twinned holes. • Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. • Discuss any adjustment to assay data. | <ul style="list-style-type: none"> • Assay results were verified by more than one Jindalee geologist. • Data from Hazen is received and stored electronically. To date no .pdf certificates have been received for the assays completed by Hazen. |

| Criteria | JORC Code explanation | Commentary |
|---|--|---|
| Location of data points | <ul style="list-style-type: none"> 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. | <ul style="list-style-type: none"> Drill hole locations were surveyed using a handheld Garmin GPS with an accuracy of +/- 3m horizontally, and +/- 5m vertically; hole positions were also checked against a Digital Elevation Model (DEM). Locations are reported in metres NAD83 Zone11. Downhole surveys were undertaken at approximately 30m intervals downhole and at the end of hole. The maximum variation from vertical observed was 1.7°, typically <0.5°, with a survey accuracy of +/- 0.1°. |
| Data spacing and distribution | <ul style="list-style-type: none"> 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. | <ul style="list-style-type: none"> Spacing of drilling and associated sampling is adequate for assessment of the areas and geological horizon(s) of interest. An Indicated and Inferred Mineral Resource has been estimated for the McDermitt Project (refer Jindalee's ASX announcement dated 27/02/2023 for further details). Sample compositing was undertaken for metallurgical test work as described above. |
| Orientation of data in relation to geological structure | <ul style="list-style-type: none"> Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. | <ul style="list-style-type: none"> Vertical drill holes were appropriate for assessing the flat lying units of interest. Downhole lengths reported are therefore the same as true widths. |
| Sample security | <ul style="list-style-type: none"> The measures taken to ensure sample security. | <ul style="list-style-type: none"> Samples were collected by qualified geological consultants engaged by Jindalee and stored on site in locked sample storage bins provided by ALS Laboratories, who then collected the bins and transported them to their facilities in either Reno or Elko, USA. Metallurgical samples were sent from ALS Laboratories in Reno, Nevada to Hazen Research Inc. in Golden, Colorado, USA. All samples were received as expected by the laboratories with no missing or mis-labelled samples. |
| Audits or reviews | <ul style="list-style-type: none"> The results of any audits or reviews of sampling techniques and data. | <ul style="list-style-type: none"> The testwork undertaken by Hazen was supervised by metallurgists employed by Hazen and reviewed by senior metallurgists and chemical engineers from Fluor Corporation. |

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> | <ul style="list-style-type: none"> • <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.</i> • <i>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.</i> | <ul style="list-style-type: none"> • Samples reported are all from land managed by the US Bureau of Land Management, with the mineral rights held under placer and lode claims owned 100% by HiTech Minerals Inc., a wholly owned US based subsidiary of Jindalee Resources Limited. • No joint ventures or royalty interests are applicable. |
| <i>Exploration done by other parties</i> | <ul style="list-style-type: none"> • <i>Acknowledgment and appraisal of exploration by other parties.</i> | <ul style="list-style-type: none"> • At McDermitt, historic uranium exploration by Chevron first identified the presence of lithium. No data from historic work undertaken within the McDermitt Project area has been obtained. |
| <i>Geology</i> | <ul style="list-style-type: none"> • <i>Deposit type, geological setting and style of mineralisation.</i> | <ul style="list-style-type: none"> • Lithium is hosted in flat-lying, lacustrine sediments deposited within the Tertiary aged McDermitt caldera. |
| <i>Drill hole Information</i> | <ul style="list-style-type: none"> • <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"> ○ <i>easting and northing of the drill hole collar</i> ○ <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i> ○ <i>dip and azimuth of the hole</i> ○ <i>down hole length and interception depth</i> ○ <i>hole length.</i> • <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 clearly explain why this is the case.</i> | <ul style="list-style-type: none"> • Please see table and figures in main body of text, including in previous releases referenced above. |
| <i>Data aggregation methods</i> | <ul style="list-style-type: none"> • <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> • <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> • <i>The assumptions used for any reporting of metal equivalent values</i> | <ul style="list-style-type: none"> • Significant intercepts are presented as a weighted average above a 1000ppm Li cut-off, with a maximum of 10 feet (3.05m) internal 'waste' (where 'waste' is defined as intervals with less than 1000ppm Li) and a minimum downhole width of 20 feet (6.1m). • Conversion from Li ppm to Li₂O is achieved by multiplying by 2.153 and converting to %. • Lithium carbonate equivalent (LCE) is calculated by taking the Li |

| Criteria | JORC Code explanation | Commentary |
|---|--|--|
| | <i>should be clearly stated.</i> | value and multiplying by 5.323 to determine the molar equivalent in standard industry fashion. |
| <i>Relationship between mineralisation widths and intercept lengths</i> | <ul style="list-style-type: none"> • <i>These relationships are particularly important in the reporting of Exploration Results.</i> • <i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i> • <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> | <ul style="list-style-type: none"> • Vertical drill holes were appropriate for assessing the flat lying units of interest. Downhole lengths reported are therefore the same as true widths. |
| <i>Diagrams</i> | <ul style="list-style-type: none"> • <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> | <ul style="list-style-type: none"> • See main body of announcement. |
| <i>Balanced reporting</i> | <ul style="list-style-type: none"> • <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> | <ul style="list-style-type: none"> • Only selected metallurgical test results relevant to this release have been reported. |
| <i>Other substantive exploration data</i> | <ul style="list-style-type: none"> • <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> | <ul style="list-style-type: none"> • Field mapping across the project area, aerial photography and description of stratigraphic sections exposed in several escarpments allows for correlation of the geology between drill holes. • Metallurgical test work is reported herein. Other data published is from previous releases and references to these have been provided. |
| <i>Further work</i> | <ul style="list-style-type: none"> • <i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> • <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> | <ul style="list-style-type: none"> • Metallurgical testwork (previously announced) has indicated high lithium recoveries from leaching with sulphuric acid at moderate temperature and atmospheric pressure and that the mineralised material can be beneficiated using attrition scrubbing. • Further metallurgical test work is currently underway to identify improved options for lithium extraction ahead of a Pre-feasibility Study (PFS) expected to be completed by mid-2024. • Additional drilling is planned to define extensions to known mineralisation, upgrade the mineral resource estimate and obtain samples for further metallurgical testwork. |