# Lithium Targets Defined in Brazil with Positive Phase 1 Soil Sampling Assays

ASX Announcement
03 October 2024

Lightning Minerals (L1M or the Company) is pleased to announce the return of encouraging assays from its first batch of soil sampling results from the Sidrônio project (now renamed Canabrava) in the prolific Lithium Valley region of Minas Gerais, Brazil. Peak assays of up to 113ppm lithium have been returned from a priority target area on the western part of the Canabrava project. This provides increased confidence in the prospectivity of the region. Multiple pegmatites and pegmatite float material have also been identified during ground reconnaissance works, further supporting the exploration thesis. The results also provide the potential first drill target generated from the first phase of work.

Soil sampling, ground reconnaissance and geophysics interpretation works are ongoing with further results to come over the next few weeks from the Canabrava, Caraíbas and Esperança projects. Further infill soil sampling will be now conducted over the target area to reduce sample spacing and improve targeting.

The project name will be changed from Sidrônio to Canabrava moving forwards due to local sensitivities.

## HIGHLIGHTS

- **Analytical results returned with up to 113ppm lithium occurring within schists of the Salinas Formation**
- **Phase 1 soil sampling program complete at the Canabrava project with 129 samples collected**
- **Multiple pegmatite occurrences and pegmatite float material identified across the project area via the coincident geological mapping campaign**
- **Infill soil works planned to begin immediately to provide further confidence for drill targeting**

Lightning Minerals Managing Director Alex Biggs said, "Positive Stage 1 results from the now renamed Canabrava prospect are very encouraging. It's great to see the area that was highlighted as a priority target has returned strong initial results and provides further opportunity to complete infill soil sampling in this area; the purpose being to more accurately and confidently define drill targets. The Lithium Valley region of Minas Gerais is a highly prospective, easy to operate in, low-cost jurisdiction and is starting to yield positive results already for the Company. Additional soil sampling results for the Caraíbas project are pending and due imminently as well as soil sampling works on the Esperança project to begin soon as well. We are making great progress in Brazil, these early-stage works are critical to ensuring a focused and effective drilling campaign and the speed and quality of the work is testament to our geology team. As we have always discussed, we are committed to the lithium thematic and what better place to back that than one of the most cost effective and prospective lithium regions on the planet. We look forward to exciting further updates soon".

## Positive Initial Soil Sampling Assays at Canabrava (previously Sidrônio)

Field soil sampling activities began during June at the Canabrava project in Minas Gerais, Brazil. The program is now complete with the collection 129 samples (Figure 1). Samples were submitted to 'SGS Geosol Laboratórios Ltd' of Belo Horizonte and the results are now available. Lithium values are considered positive with two areas of elevated lithium returned along the 400m spaced sample line traverses. Results in these two areas are broadly coincident with the orientation of a nearby sub cropping pegmatite recorded as part of the first pass geological mapping program that was conducted in parallel to the soil sampling exploration program (Figure 2). The orientation of the target trend area correlates with a linear topographic high that has an undifferentiated cover sequence obscuring the underlying schists of the Salinas Formation to the east. This is the reason that the samples in the traverse to the east of the identified trend zone were not collected during the Phase 1 program. The area will now be revisited to sample on 100m traverses to determine if the anomalism continues until the cover unit presents to the east.

A thesis regarding the structural setting local to the lithium in soil anomalism is being developed and will be aided by the finalisation of geophysics interpretation works which are due imminently. Thesis development will focus on identifying structural corridors that may present a dilational strain regime suitable for pegmatite emplacement similar to those seen at other known deposits in the region. If similar elevations in lithium are returned from the planned infill soil sampling campaign to the east this will also be considered as a high priority drill target area.

**Figure 1: Soil sampling results (lithium) for 129 samples taken from Canabrava project area. The interpreted trend zone for immediate follow up field works is shown in yellow. (SIRGAS 2000/UTM Z23S)**

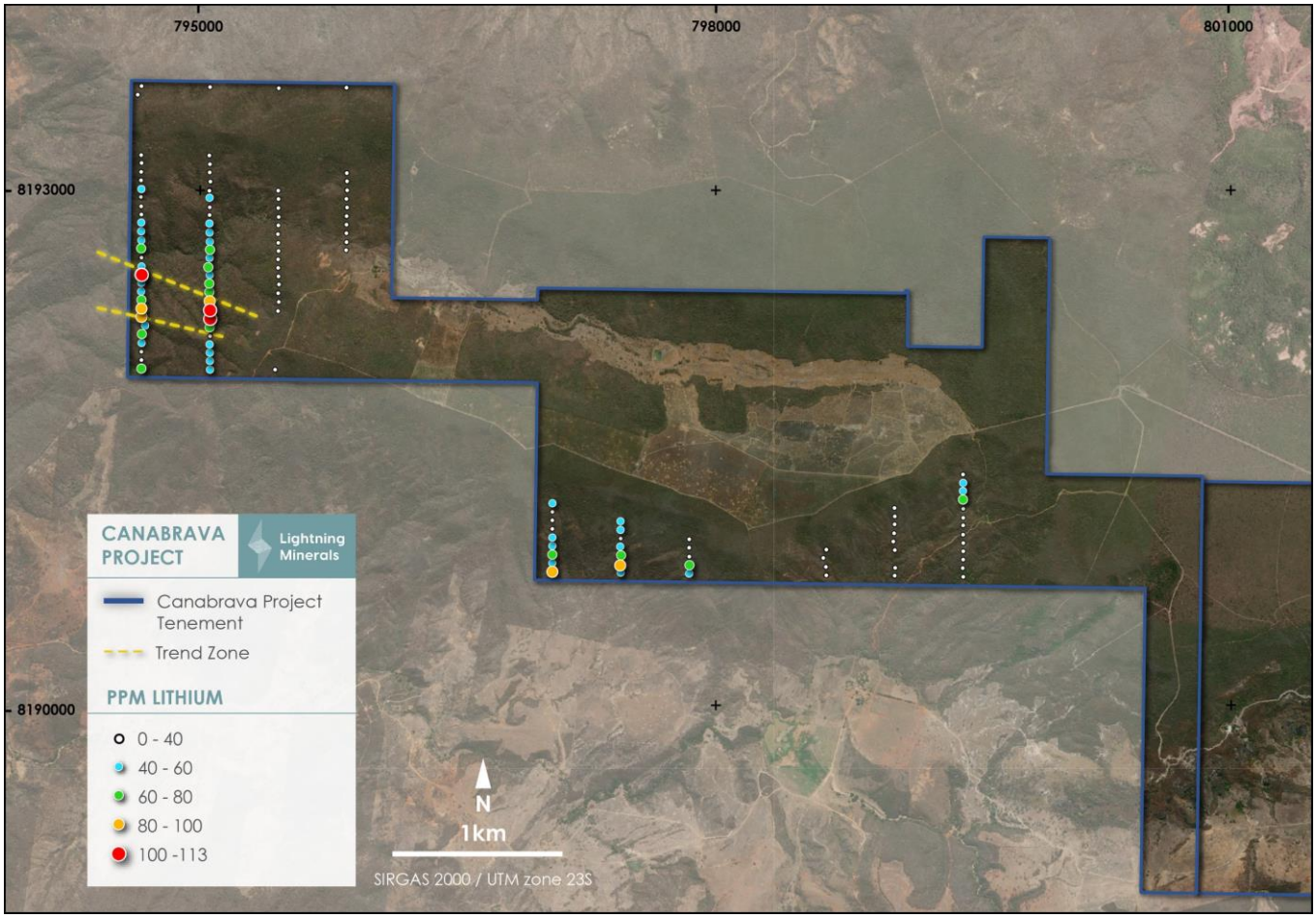
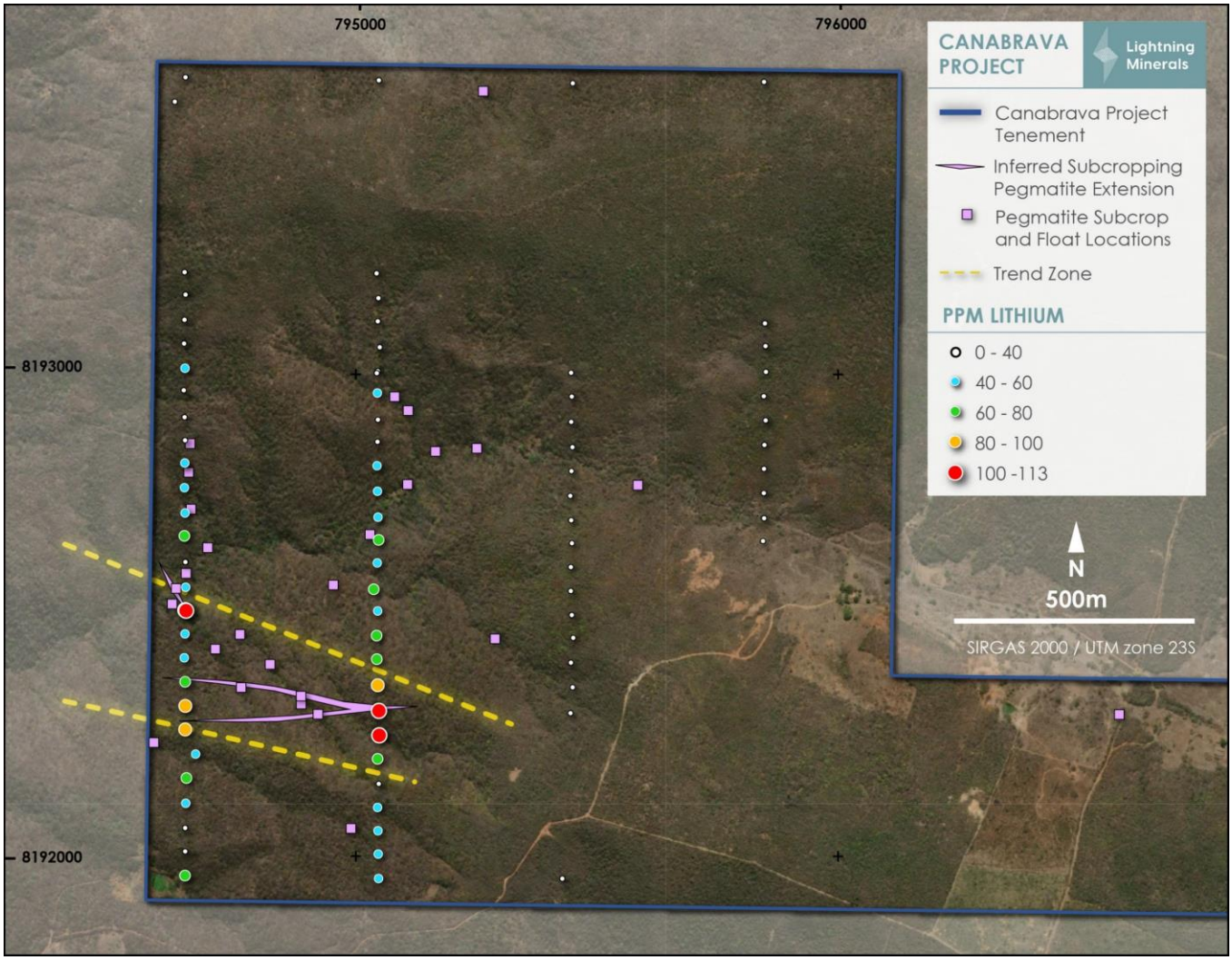


**Figure 2: Zoomed view of Figure 1 target area showing soil sampling results (lithium), interpreted subcropping pegmatite locations, and point mapped pegmatite data (SIRGAS 2000/UTM Z23S)**






## Pegmatite Occurrences Demonstrate Potential Prospectivity

Beyond the areas of elevated lithium, a considerable number of pegmatite sub crops and float has been recorded during the mapping campaign with more than 25 pegmatite occurrences mapped within the local area (Figure 2). The mapping program continues to uncover what might be a broad pegmatite system hosted within Salinas Formation Schists, which is significant in a regional context as these add to the prospectivity of the project areas.

Typical examples of the pegmatite outcrops are shown in Figure 3 (A) and Figure 3 (B) below.

A full list of field descriptions for the pegmatite locations is included in Appendix 2 Table 2, and the analytical results for the rock chip samples included in Appendix 1 Table 2.

**Figure 3: Photography of sites VLM081 (A) and VLM080 (B) of outcropping pegmatites within the Canabrava Project area. (SIRGAS 2000/UTM Z23S)**


## Next Stages of Work at Canabrava (formerly Sidrônio)

A follow up infill soil sampling program consisting of approximately 100 samples on a 100m line spacing, and 50m sample spacing is currently being arranged and will begin within the next week.

Local specialist lithium geologists will revisit the area and undertake further mapping to better constrain the pegmatite outcrops and orientations with a view to generate drill targets ready for an inaugural drilling campaign.

## Ongoing Works in Brazil

Phase 1 soil sampling is ongoing at the Caraíbas project with results expected over the coming weeks, testing priority targets identified during ground reconnaissance works and initial desktop studies. Soil sampling works are being prioritised at the Esperança project and are scheduled to begin over the next week, again targeting priority target areas that have already been identified in the field and through desktop analysis.

Plans are now being developed to begin infill soil sampling at the target areas at the Canabrava project as identified in this announcement.

Geophysics interpretation works are also pending across all three project areas. The combination of ground reconnaissance, soil sampling and geophysics is critical to ensuring confident identification of targets for drilling.

*Figure 4: Lightning Minerals' Brazilian tenements in regional context of the Lithium Valley region of Minas Gerais*

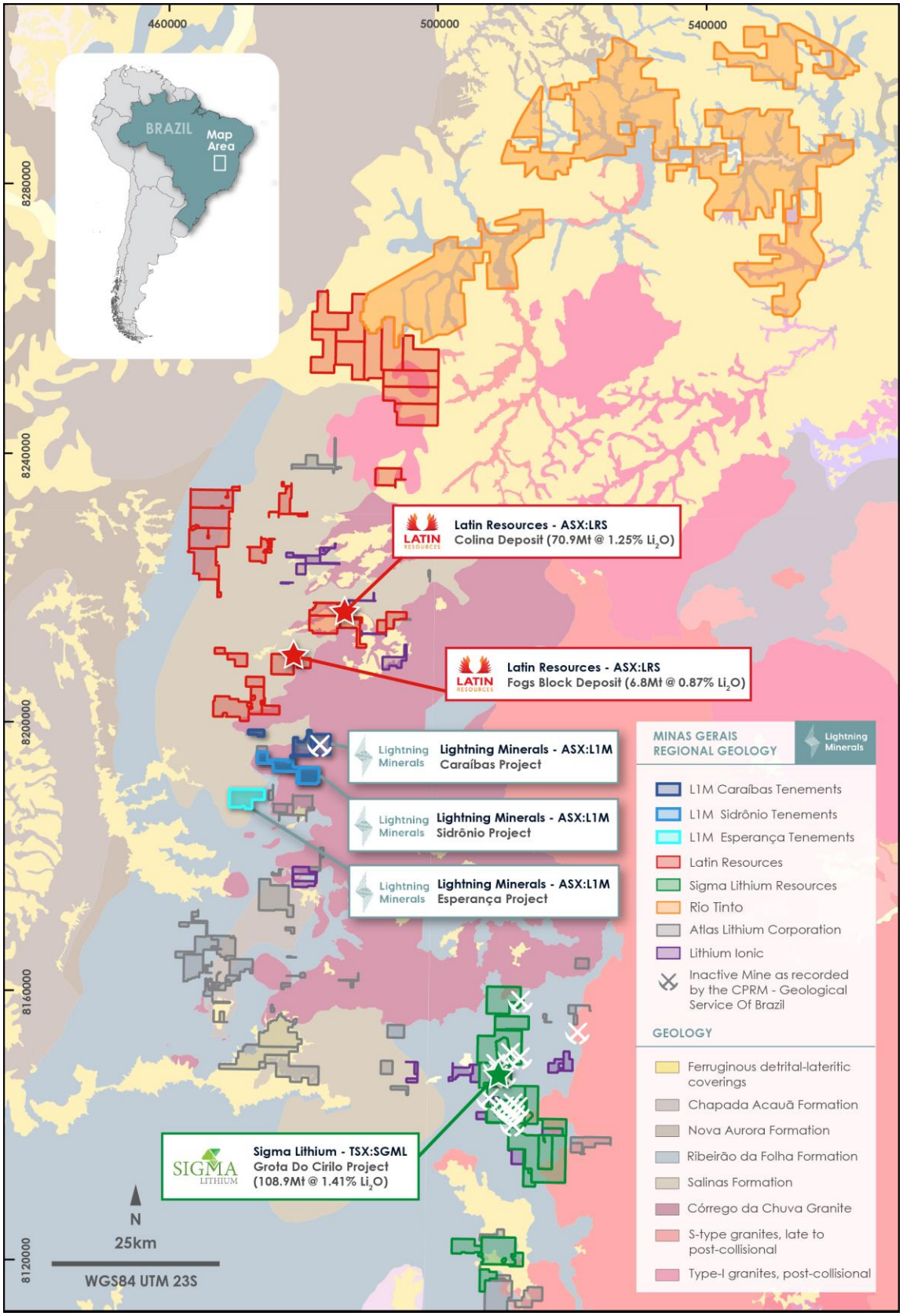
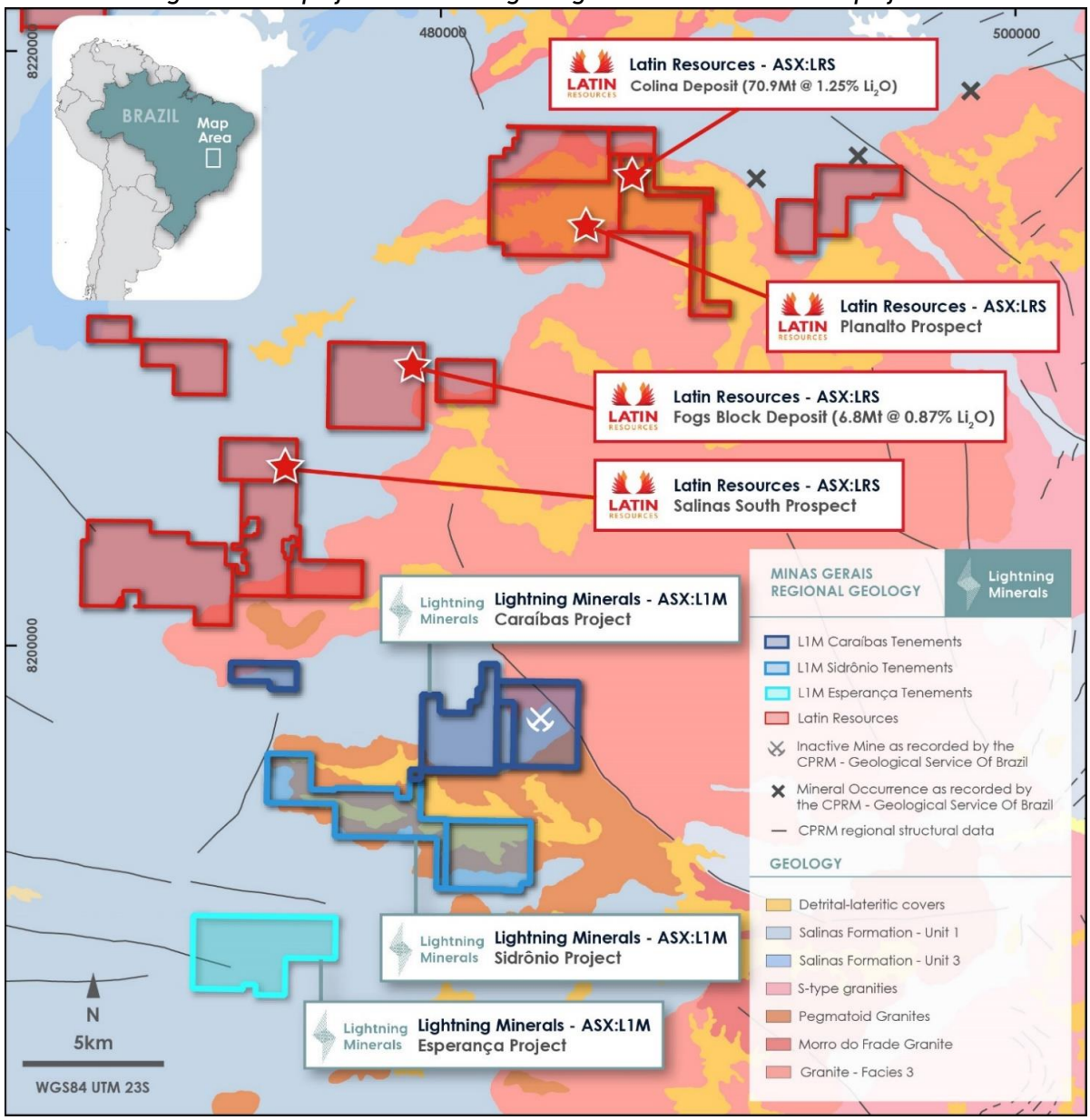


*Figure 5: Local project location of Lightning Minerals' Brazilian lithium projects*




***Approved for release by the Board of Directors***

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**More information at www.lightningminerals.com.au**

## ABOUT LIGHTNING MINERALS

Lightning Minerals is a mineral exploration company, listed on the Australian Securities Exchange (ASX:L1M) and focused on the exploration of critical minerals and lithium at its tenements across Western Australia. The recent acquisition of the Caraíbas, Sidrônio (now Canabrava) and Esperança lithium projects in Minas Gerais, Brazil are potentially transformational to the Company's success in the lithium sector. The Company also owns the Dundas project in the prolific Dundas region of Western Australia, the Dalmas and Hiver lithium projects in Quebec, Canada, another significant and evolving lithium region globally. The Company also holds other projects in Western Australia which include Mt Jewell, Mt Bartle and Mailman Hill which are prospective for base metals and critical minerals.

## FORWARD LOOKING STATEMENTS

Information included in this release constitutes forward-looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward-looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue", and "guidance", or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licences and permits and diminishing quantities or grades of reserves, political and social risks, changes to the regulatory framework within which the Company operates or may in the future operate, environmental conditions including extreme weather conditions, recruitment and retention of personnel, industrial relations issues and litigation.

Forward looking statements are based on the Company and its management's good faith assumptions relating to the financial, market, regulatory and other relevant environments that will exist and affect the Company's business and operations in the future. The Company does not give any assurance that the assumptions on which forward looking statements are based will prove to be correct, or that the Company's business or operations will not be affected in any material manner by these or other factors not foreseen or foreseeable by the Company or management or beyond the Company's control.

Although the Company attempts and has attempted to identify factors that would cause actual actions, events or results to differ materially from those disclosed in forward looking statements, there may be other factors that could cause actual results, performance, achievements or events not to be as anticipated, estimated or intended, and many events are beyond the reasonable control of the Company. Accordingly, readers are cautioned not to place undue reliance on forward looking statements. Forward looking statements in these materials speak only at the date of issue. Subject to any continuing obligations under applicable law or any relevant stock exchange listing rules, in providing this information the Company does not undertake any obligation to publicly update or revise any of the forward-looking statements or to advise of any change in events, conditions or circumstances on which any such statement is based.



## COMPETENT PERSONS STATEMENT

The information contained herein that relates to exploration results is based on information compiled or reviewed by Mr Jarrad Woodland, who is a Competent Person and a member of the Australasian Institute of Mining and Metallurgy. Mr Woodland is a full-time employee of the Company. Mr Woodland has sufficient experience which is relevant to the style of mineralisation and types of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Woodland consents to the inclusion of his name in the matters based on the information in the form and context in which it appears. Mr Woodland holds options in Lightning Minerals.

## REFERENCES TO PREVIOUS ANNOUNCEMENTS

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements, and that all material assumptions and technical parameters have not materially changed. The Company also confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.


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## Appendix 1: Canabrava – JORC Code 2012 Table 1 Criteria

The Table below summarises the assessment and reporting criteria used for exploration results for the Canabrava Exploration Project and reflects the guidelines in Table 1 of The Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (The JORC 2012 Code).

### Section 1 - Sampling Techniques and Data

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| *Sampling techniques* | *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.*<br>*Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.*<br>*Aspects of the determination of mineralisation that are Material to the Public Report.*<br>*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.* | • Data in this document relates to geochemical soil and rock chip sampling.<br>• Soil sampling is a reconnaissance stage exploration technique which may indicates the geochemical parameters of the underlying or nearby bedrock geology. Mineralised lithologies of the target commodity may elevate elemental proportions in the soil and provide vectors toward location the mineralised body.<br>• Soil samples were collected using pick and shovel from depths of approximately 30cm below the surface.<br>• Rockchip samples were collected at the discretion of the field geologist, this method is appropriate given the early stage of exploration at the Canabrava Project<br>• Approximately 200g of material from the deepest sample horizon is passed through a 2mm sieve, with the -2mm retained for assay.<br>• Samples were submitted to SGS Geosol Laboratórios Ltd' of Belo Horizonte.<br>• Sampling was carried out using Lightning Minerals procedures and QAQC processes as per current industry standard practice.<br>• Sample site locations are recorded using a Garmin Map 62s handheld device and are reported in projection SIRGAS 2000 / UTM 23S |
| *Drilling techniques* | *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).* | • No drilling is being reported |
| *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.*<br>*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.* | • No drilling is being reported |
| *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.*<br>*Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.*<br>*The total length and percentage of the relevant intersections logged.* | • No drilling is being reported |
| *Sub-sampling techniques and sample preparation* | *If core, whether cut or sawn and whether quarter, half or all core taken.*<br>*If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* | • Soil Samples are collected in the field into small kraft cardboard bags and are 200gm per unit.<br>• Rock chip samples are approximately 1-3kg and are collected into pre numbered calico bags. |

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|---|---|---|
| | *For all sample types, the nature, quality and appropriateness of the sample preparation technique.*<br>*Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.*<br>*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.*<br>*Whether sample sizes are appropriate to the grain size of the material being sampled.* | • Industry standard QAQC practices of field duplicates and the appropriate use of laboratory provided Certified Reference Material for low level lithium are used for all laboratory sample submissions. Field Duplicates are utilised by the company at a rate of 1:50 samples. |
| *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.*<br>*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.*<br>*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.* | • Samples were submitted to SGS Geosol Laboratórios Ltd' of Belo Horizonte Minas Gerais Brazil.<br>• Analysis procedures are considered appropriate for Lithium and Multi element analysis.<br>• Samples are prepared and analysed using SGS technique PRS80J and are analysed via optical emission spectroscopy analysis using code ICP90A. Determination by Fusion with Sodium Peroxide - ICP OES.<br>• Elements analysed at ppm limits for soil samples included Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, La, Li, Mg, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Sn, Sr, Ta, Ti, V, W, Y, Zn<br>• Elements analysed at ppm limits for rock chip samples included Ag, Al,As, B,Ba, Be,Bi, Ca,Cd, Ce,Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, In, K, La, Li, Lu, Mg, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr<br>• Laboratory CRM material has been utilised at this early stage of exploration works. |
| *Verification of sampling and assaying* | *The verification of significant intersections by either independent or alternative company personnel.*<br>*The use of twinned holes.*<br>*Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.*<br>*Discuss any adjustment to assay data.* | • No verification will be undertaken for these initial samples as they will not be used in any resource estimate.<br>• The samples are to determine the levels of Li and other valuable elements in soil samples. |
| *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.*<br>*Specification of the grid system used.*<br>*Quality and adequacy of topographic control.* | • Handheld Garmin GPS instruments were used to geo locate each sample location, these instruments are understood to be accurate within a ±5m in the horizontal and vertical planes.<br>• The level of topographic control offered by a handheld GPS is considered sufficient for early exploration auger drilling.<br>• All samples were collected in the SIRGAS 2000 / UTM zone 23S |
| *Data spacing and distribution* | *Data spacing for reporting of Exploration Results.*<br>*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.*<br>*Whether sample compositing has been applied.* | • The soil and rock chip sample spacing is considered appropriate for the reporting of the exploration results.<br>• No Mineral Resource or Ore Reserve Estimates have been completed. |
| *Orientation of data in relation to geological structure* | *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*<br>*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.* | • The collection of soil and rock chip sampling data was targeted as best possible at this early stage of exploration activities. |
| *Sample security* | *The measures taken to ensure sample security.* | • The chain of custody for sampling procedures and sample analysis was managed by the contract geological consultants during collection |

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|---|---|---|
| *Audits or reviews* | *The results of any audits or reviews of sampling techniques and data.* | • No audits or reviews of sampling techniques have been conducted to date. |

## Section 2 - Reporting of Exploration Results

| 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.*<br>*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 Canabrava Project (formerly Sidrônio) is located approximately 18km south-south east of the town of Salinas, Minas Gerais, Brazil.<br>• The Canabrava Project area totals ~16.7km$^2$ and comprises two granted exploration licences 830440/2015 and 830439/2015<br>• The Tenements are considered in good standing at the time of this report. |
| *Exploration done by other parties* | *Acknowledgment and appraisal of exploration by other parties.* | • The Canabrava Project (formerly Sidrônio) is at a very early stage and little to no recorded work has been completed by prior explorers.<br>• Recent exploration has included a small reconnaissance exploration program by project vendor Bengal Mining. |
| *Geology* | *Deposit type, geological setting and style of mineralisation.* | • No known mineral deposits occur within project tenure.<br>• The Canabrava Project (formerly Sidrônio) geology comprises Neoproterozoic age sedimentary rocks of Araçuaí Orogen intruded by pegmatites interpreted to originate from the fractionation of magmatic fluids from the peraluminous S-type post tectonic granitoids of Araçuaí Orogen.<br>• The target commodity is hardrock lithium within lithium-caesium-tantalum pegmatites. |
| *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:*<br>○ *easting and northing of the drill hole collar*<br>○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*<br>○ *down hole length and interception depth,*<br>○ *hole length.*<br>*If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.* | • No drillhole information is reported.<br>• No material information has been excluded from this report, laboratory analytical results have been adequately communicated and described within the body of this report. |
| *Data aggregation methods* | *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.*<br>*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.* | • No levelling of the raw geochemical data was undertaken.<br>• Plan images have been generated using QGIS software.<br>• No metal equivalent values are reported. |
| *Relationship between mineralisation widths and intercept lengths* | *These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').* | • No drillhole information is reported.<br>• There is insufficient data provided by the mapping and geochemical results contained within this report for a relationship between pegmatite and mineral resources to be reported. |

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|---|---|---|
| *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.* | • Appropriate reporting of results has been included in the body of this announcement; the plans, or lack thereof suitably represent the nature of the results. |
| *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.* | • Comprehensive reporting of soil and rock chip geochemical results within the Canabrava Project (formerly Sidrônio) has been included in Appendix 1. |
| *Other substantive exploration data* | *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.* | • All meaningful data and relevant information have been included in the body of the report. |
| *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.* | • Follow up infill soil sampling is currently being planned and is expected to begin imminently, however at the time of reporting the program has not yet begun. |

## Appendix 1 - Table 1: Canabrava Soil Sampling Assays

| Sample ID | Easting (UTM 23S) | Northing (UTM 23S) | Be (ppm) | Li (ppm) | Nb (ppm) | Sn (ppm) | Ta (ppm) | W (ppm) | Y (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| SOLM0002 | 797048 | 8190776 | <2.5 | 84 | <5 | <25 | 10 | <25 | 32 |
| SOLM0003 | 797047 | 8190826 | <2.5 | 41 | <5 | <25 | <5 | <25 | 33 |
| SOLM0004 | 797048 | 8190876 | <2.5 | 63 | <5 | <25 | 13 | <25 | 30 |
| SOLM0005 | 797048 | 8190926 | <2.5 | 53 | 11 | <25 | <5 | <25 | 34 |
| SOLM0006 | 797048 | 8190976 | <2.5 | 54 | 13 | <25 | 11 | <25 | 28 |
| SOLM0007 | 797048 | 8191026 | 6 | 32 | <5 | <25 | 17 | <25 | 32 |
| SOLM0008 | 797048 | 8191076 | <2.5 | 25 | <5 | <25 | <5 | <25 | 19 |
| SOLM0009 | 797048 | 8191126 | <2.5 | 35 | <5 | <25 | <5 | <25 | 19 |
| SOLM0010 | 797048 | 8191176 | <2.5 | 43 | 12 | <25 | <5 | <25 | 20 |
| SOLM0011 | 797446 | 8191071 | <2.5 | 51 | 11 | <25 | <5 | <25 | 10 |
| SOLM0012 | 797446 | 8191020 | 6 | 57 | <5 | <25 | <5 | <25 | 24 |
| SOLM0013 | 797447 | 8190971 | 6 | 33 | <5 | <25 | 37 | <25 | 37 |
| SOLM0014 | 797444 | 8190925 | <2.5 | 43 | 13 | <25 | <5 | <25 | 18 |
| SOLM0015 | 797450 | 8190872 | <2.5 | 63 | <5 | <25 | 14 | <25 | 32 |
| SOLM0016 | 797444 | 8190813 | <2.5 | 81 | 12 | <25 | 12 | <25 | 31 |
| SOLM0017 | 797447 | 8190771 | <2.5 | 54 | <5 | <25 | 52 | <25 | 29 |
| SOLM0018 | 797847 | 8190966 | <2.5 | 27 | 15 | <25 | <5 | <25 | 11 |
| SOLM0019 | 797847 | 8190916 | <2.5 | 33 | 18 | <25 | 25 | <25 | 13 |
| SOLM0020 | 797848 | 8190864 | 7 | 40 | <5 | <25 | 43 | <25 | 15 |
| SOLM0021 | 797847 | 8190816 | <2.5 | 35 | <5 | <25 | 12 | <25 | 28 |
| SOLM0022 | 797849 | 8190814 | <2.5 | 63 | 11 | <25 | <5 | <25 | 30 |
| SOLM0023 | 797847 | 8190766 | 6 | 59 | <5 | <25 | 47 | <25 | 34 |
| SOLM0024 | 798649 | 8190905 | 8 | 39 | 15 | <25 | 10 | <25 | 36 |
| SOLM0025 | 798631 | 8190856 | 6 | 21 | 13 | <25 | 35 | <25 | 28 |
| SOLM0026 | 798646 | 8190804 | <2.5 | 30 | 19 | <25 | 17 | <25 | 32 |
| SOLM0027 | 798649 | 8190755 | <2.5 | 30 | 11 | <25 | 18 | <25 | 37 |
| SOLM0028 | 799047 | 8191149 | 9 | 22 | 16 | <25 | <5 | <25 | 47 |
| SOLM0029 | 799049 | 8191099 | 6 | 23 | <5 | <25 | 17 | <25 | 35 |
| SOLM0030 | 799048 | 8191053 | 5 | 19 | 13 | <25 | 35 | <25 | 33 |

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|---|---|---|---|---|---|---|---|---|---|
| SOLM0031 | 799045 | 8191001 | 6 | 20 | <5 | <25 | 34 | <25 | 36 |
| SOLM0032 | 799040 | 8190953 | 6 | 26 | 16 | <25 | 10 | <25 | 75 |
| SOLM0033 | 799049 | 8190902 | <2.5 | 28 | <5 | <25 | 47 | <25 | 26 |
| SOLM0034 | 799051 | 8190799 | <2.5 | 22 | 13 | <25 | <5 | <25 | 49 |
| SOLM0035 | 799048 | 8190753 | <2.5 | 35 | 11 | <25 | 19 | <25 | 26 |
| SOLM0036 | 799447 | 8191344 | <2.5 | 28 | 16 | <25 | 10 | <25 | 21 |
| SOLM0037 | 799448 | 8191295 | <2.5 | 51 | <5 | <25 | <5 | <25 | 48 |
| SOLM0038 | 799446 | 8191248 | <2.5 | 41 | 15 | <25 | 14 | <25 | 23 |
| SOLM0039 | 799447 | 8191198 | 7 | 65 | 11 | <25 | <5 | <25 | 46 |
| SOLM0040 | 799448 | 8191144 | <2.5 | 30 | <5 | <25 | <5 | <25 | 29 |
| SOLM0042 | 799448 | 8191091 | 7 | 29 | <5 | <25 | <5 | <25 | 35 |
| SOLM0043 | 799448 | 8191047 | 7 | 32 | <5 | <25 | 17 | <25 | 37 |
| SOLM0044 | 799447 | 8190992 | 7 | 38 | 13 | <25 | <5 | <25 | 36 |
| SOLM0045 | 799448 | 8190944 | <2.5 | 21 | <5 | <25 | <5 | <25 | 32 |
| SOLM0046 | 799448 | 8190895 | 6 | 37 | <5 | <25 | <5 | <25 | 46 |
| SOLM0047 | 799448 | 8190847 | 5 | 13 | <5 | <25 | <5 | <25 | 34 |
| SOLM0048 | 799445 | 8190797 | 6 | 36 | <5 | <25 | <5 | <25 | 34 |
| SOLM0049 | 799448 | 8190746 | <2.5 | 32 | <5 | <25 | <5 | <25 | 27 |
| SOLM0050 | 794647 | 8191963 | <2.5 | 66 | <5 | <25 | <5 | <25 | 37 |
| SOLM0051 | 794647 | 8192013 | <2.5 | 32 | <5 | <25 | <5 | <25 | 33 |
| SOLM0052 | 794647 | 8192062 | <2.5 | 33 | <5 | <25 | <5 | <25 | 33 |
| SOLM0053 | 794649 | 8192113 | <2.5 | 45 | 40 | <25 | <5 | <25 | 31 |
| SOLM0054 | 794650 | 8192165 | <2.5 | 66 | <5 | <25 | <5 | <25 | 40 |
| SOLM0055 | 794669 | 8192215 | <2.5 | 60 | <5 | <25 | 22 | <25 | 46 |
| SOLM0056 | 794648 | 8192266 | <2.5 | 93 | <5 | <25 | <5 | <25 | 32 |
| SOLM0057 | 794648 | 8192314 | <2.5 | 90 | <5 | <25 | <5 | <25 | 36 |
| SOLM0058 | 794647 | 8192364 | <2.5 | 70 | <5 | <25 | <5 | <25 | 39 |
| SOLM0059 | 794646 | 8192414 | <2.5 | 55 | <5 | <25 | <5 | <25 | 40 |
| SOLM0060 | 794647 | 8192464 | <2.5 | 56 | <5 | <25 | <5 | <25 | 36 |
| SOLM0061 | 794648 | 8192512 | 8 | 113 | 16 | <25 | <5 | <25 | 35 |
| SOLM0062 | 794649 | 8192511 | 8 | 101 | 15 | <25 | <5 | <25 | 33 |
| SOLM0063 | 794649 | 8192560 | <2.5 | 55 | <5 | <25 | <5 | <25 | 34 |

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|---|---|---|---|---|---|---|---|---|---|
| SOLM0064 | 794648 | 8192612 | <2.5 | 36 | <5 | <25 | <5 | <25 | 35 |
| SOLM0065 | 794646 | 8192666 | <2.5 | 61 | <5 | <25 | <5 | <25 | 33 |
| SOLM0066 | 794647 | 8192713 | <2.5 | 45 | <5 | <25 | <5 | <25 | 32 |
| SOLM0067 | 794646 | 8192766 | <2.5 | 56 | <5 | <25 | <5 | <25 | 40 |
| SOLM0068 | 794647 | 8192817 | <2.5 | 46 | <5 | <25 | <5 | <25 | 38 |
| SOLM0069 | 794647 | 8192864 | <2.5 | 39 | <5 | <25 | <5 | <25 | 30 |
| SOLM0070 | 794646 | 8192912 | <2.5 | 24 | <5 | <25 | <5 | <25 | 36 |
| SOLM0071 | 794645 | 8192967 | <2.5 | 38 | <5 | <25 | <5 | <25 | 33 |
| SOLM0072 | 794647 | 8193013 | <2.5 | 43 | <5 | <25 | <5 | <25 | 37 |
| SOLM0073 | 794645 | 8193064 | <2.5 | 27 | <5 | <25 | <5 | <25 | 35 |
| SOLM0074 | 794646 | 8193113 | <2.5 | 20 | <5 | <25 | <5 | <25 | 37 |
| SOLM0075 | 794648 | 8193165 | <2.5 | 5 | <5 | <25 | <5 | <25 | 41 |
| SOLM0076 | 794646 | 8193211 | <2.5 | 12 | <5 | <25 | <5 | <25 | 32 |
| SOLM0077 | 794626 | 8193564 | <2.5 | 22 | <5 | <25 | <5 | <25 | 42 |
| SOLM0078 | 794648 | 8193615 | <2.5 | 18 | <5 | <25 | <5 | <25 | 47 |
| SOLM0079 | 795048 | 8191957 | <2.5 | 53 | <5 | <25 | <5 | <25 | 30 |
| SOLM0080 | 795047 | 8192008 | 5 | 43 | <5 | <25 | <5 | <25 | 35 |
| SOLM0082 | 795047 | 8192056 | <2.5 | 59 | <5 | <25 | <5 | <25 | 38 |
| SOLM0083 | 795046 | 8192104 | 5 | 45 | <5 | <25 | <5 | <25 | 36 |
| SOLM0084 | 795048 | 8192153 | <2.5 | 30 | <5 | <25 | <5 | <25 | 22 |
| SOLM0085 | 795046 | 8192205 | <2.5 | 74 | <5 | <25 | <5 | <25 | 36 |
| SOLM0086 | 795049 | 8192254 | 6 | 103 | <5 | <25 | <5 | <25 | 35 |
| SOLM0087 | 795048 | 8192304 | 5 | 102 | <5 | <25 | <5 | <25 | 42 |
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| SOLM0089 | 795044 | 8192411 | <2.5 | 67 | <5 | <25 | <5 | <25 | 44 |
| SOLM0090 | 795044 | 8192460 | <2.5 | 62 | 11 | <25 | <5 | <25 | 42 |
| SOLM0091 | 795046 | 8192511 | <2.5 | 45 | <5 | <25 | <5 | <25 | 31 |
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| SOLM0093 | 795045 | 8192610 | <2.5 | 46 | <5 | 62 | 41 | <25 | 20 |
| SOLM0094 | 795048 | 8192658 | <2.5 | 63 | <5 | <25 | <5 | <25 | 24 |
| SOLM0095 | 795047 | 8192705 | <2.5 | 53 | <5 | 66 | <5 | <25 | 32 |
| SOLM0096 | 795045 | 8192758 | <2.5 | 58 | <5 | <25 | 15 | <25 | 27 |

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|---|---|---|---|---|---|---|---|---|---|
| SOLM0097 | 795044 | 8192811 | <2.5 | 52 | <5 | <25 | 24 | <25 | 14 |
| SOLM0098 | 795045 | 8192861 | <2.5 | 38 | <5 | <25 | 42 | <25 | 11 |
| SOLM0099 | 795046 | 8192906 | <2.5 | 38 | <5 | <25 | <5 | <25 | 14 |
| SOLM0100 | 795045 | 8192962 | <2.5 | 51 | <5 | 108 | 19 | <25 | 24 |
| SOLM0101 | 795046 | 8193007 | <2.5 | 36 | <5 | 51 | 55 | <25 | 22 |
| SOLM0102 | 795044 | 8193002 | <2.5 | 36 | <5 | <25 | 13 | <25 | 15 |
| SOLM0103 | 795050 | 8193056 | <2.5 | 32 | <5 | <25 | 23 | <25 | 25 |
| SOLM0104 | 795046 | 8193110 | <2.5 | 34 | <5 | <25 | 31 | <25 | 29 |
| SOLM0105 | 795047 | 8193158 | <2.5 | 22 | <5 | 51 | <5 | <25 | 16 |
| SOLM0106 | 795044 | 8193209 | <2.5 | 14 | <5 | <25 | <5 | <25 | 8 |
| SOLM0107 | 795048 | 8193608 | <2.5 | 25 | <5 | 151 | <5 | <25 | 22 |
| SOLM0108 | 795428 | 8191957 | <2.5 | 34 | <5 | <25 | <5 | <25 | 12 |
| SOLM0109 | 795445 | 8192299 | <2.5 | 17 | <5 | <25 | <5 | <25 | 11 |
| SOLM0110 | 795449 | 8192353 | <2.5 | 18 | <5 | <25 | 11 | <25 | 16 |
| SOLM0111 | 795446 | 8192404 | <2.5 | 18 | <5 | <25 | <5 | <25 | 17 |
| SOLM0112 | 795451 | 8192455 | <2.5 | 5 | <5 | <25 | <5 | <25 | 14 |
| SOLM0113 | 795447 | 8192502 | <2.5 | 17 | 17 | <25 | 20 | <25 | 32 |
| SOLM0114 | 795446 | 8192552 | <2.5 | 5 | <5 | <25 | <5 | <25 | 22 |
| SOLM0115 | 795446 | 8192602 | <2.5 | 19 | <5 | <25 | 11 | <25 | 26 |
| SOLM0116 | 795448 | 8192651 | <2.5 | 14 | <5 | <25 | <5 | <25 | 15 |
| SOLM0117 | 795446 | 8192698 | <2.5 | 18 | <5 | 217 | 34 | <25 | 9 |
| SOLM0118 | 795445 | 8192749 | <2.5 | 11 | <5 | 58 | <5 | <25 | 14 |
| SOLM0119 | 795447 | 8192800 | <2.5 | 12 | 10 | <25 | <5 | <25 | 18 |
| SOLM0120 | 795449 | 8192849 | <2.5 | 29 | <5 | <25 | <5 | <25 | 23 |
| SOLM0122 | 795446 | 8192902 | <2.5 | 20 | <5 | <25 | <5 | <25 | 23 |
| SOLM0123 | 795447 | 8192954 | <2.5 | 19 | <5 | <25 | <5 | <25 | 25 |
| SOLM0124 | 795446 | 8193003 | <2.5 | 5 | <5 | <25 | 60 | <25 | 15 |
| SOLM0125 | 795450 | 8193602 | <2.5 | 17 | 11 | <25 | 19 | <25 | 19 |
| SOLM0126 | 795843 | 8192656 | <2.5 | 15 | <5 | <25 | <5 | <25 | 27 |
| SOLM0127 | 795846 | 8192702 | <2.5 | 17 | <5 | <25 | <5 | <25 | 20 |
| SOLM0128 | 795845 | 8192755 | <2.5 | 5 | <5 | <25 | 20 | <25 | 17 |
| SOLM0129 | 795845 | 8192805 | <2.5 | 14 | <5 | 52 | <5 | <25 | 23 |

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|---|---|---|---|---|---|---|---|---|---|
| SOLM0130 | 795846 | 8192854 | <2.5 | 5 | <5 | <25 | <5 | <25 | 41 |
| SOLM0131 | 795849 | 8192905 | <2.5 | 5 | <5 | <25 | <5 | <25 | 37 |
| SOLM0132 | 795845 | 8192955 | <2.5 | 5 | <5 | <25 | <5 | <25 | 44 |
| SOLM0133 | 795849 | 8193005 | <2.5 | 5 | <5 | <25 | <5 | <25 | 40 |
| SOLM0134 | 795848 | 8193058 | <2.5 | 5 | <5 | <25 | <5 | <25 | 30 |
| SOLM0135 | 795847 | 8193106 | <2.5 | 5 | <5 | <25 | <5 | <25 | 52 |
| SOLM0136 | 795845 | 8193605 | <2.5 | 17 | <5 | <25 | <5 | <25 | 16 |



## Appendix 1 - Table 2: Canabrava Rock Chip Sampling Assays

| Sample ID | Easting (UTM 23S) | Northing (UTM 23S) | Be (ppm) | Li (ppm) | Nb (ppm) | Sn (ppm) | Ta (ppm) | W (ppm) | Y (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| VLM072 | 794984 | 8192062 | <5 | <10 | <10 | <5 | <10 | <100 | 1.05 |
| VLM076 | 794576 | 8192239 | 13 | 36 | <10 | 11 | <10 | <100 | 5.61 |
| VLM082 | 794643 | 8192589 | 8 | 44 | 12 | 23 | <10 | <100 | 2.99 |
| VLM095 | 795578 | 8192772 | 7 | 15 | <10 | 7 | <10 | <100 | 2.41 |
| VLM107 | 795258 | 8193586 | 8 | 33 | <10 | <5 | <10 | <100 | 4.9 |
| VLM120 | 795101 | 8192773 | 7 | 11 | <10 | <5 | <10 | <100 | 11.35 |
| VLM122 | 794653 | 8192722 | 10 | 50 | <10 | <5 | <10 | <100 | 1.27 |
| VLM124 | 794648 | 8192798 | 31 | 28 | <10 | <5 | <10 | <100 | 1.04 |
| VLM081 | 794627 | 8192555 | 218 | <10 | 84 | 43 | 88 | <100 | 20.79 |
| VLM078 | 794708 | 8192432 | 227 | <10 | 122 | 15 | 57 | <100 | 2.96 |
| VLM131 | 795102 | 8192926 | <5 | 15 | <10 | <5 | <10 | <100 | 0.97 |

## Appendix 2 - Table 1: Reporting Visual Estimates of Mineralisation

| Project | Sample ID | Geology/Comments |
|---|---|---|
| Canabrava (Formerly Sidrônio) | - | No lithium mineralisation is reported within samples taken from the Canabrava project. At this early stage of exploration all samples represent exploration stage sampling to understand the background geochemistry of reported pegmatites. |

## Appendix 2 - Table 2: All Pegmatite Field Descriptions Within Canabrava Project

| Sample ID | Easting (UTM 23S) | Northing (UTM 23S) | Lithology | Campaign | Primary Minerals (Major >30%) | Secondary Minerals (Minor >5% and <30%) | Accessory Minerals (Trace <5%) | Boulder/In-Situ | Comments |
|---|---|---|---|---|---|---|---|---|---|
| BLR151 | 801157 | 8189202 | Pegmatite - Granitic | 2023 | Feldspar, Quartz | | | Outcrop | Valley. Pegmatitic domain with xenoliths of schist. Sn 344/66 (?) |
| BLR152 | 802490 | 8189093 | Pegmatite - Granitic | 2023 | Feldspar, Quartz | Biotite | | Outcrop | Pegmatitic granite. Xenoliths of schist (biotitic mass). |
| GB956 | 801173 | 8189207 | Pegmatite | 2023 | Feldspar, Quartz | Tourmaline | | Outcrop | Pegmatoidal granite with black tourmaline, albite, quartz. It seems to be a pegmatite into schist foliation. 020/35 |
| GB957 | 801142 | 8189167 | Pegmatite | 2023 | Feldspar, Quartz | Muscovite | Tourmaline | Outcrop | Pegmatite. Diffuse contacts with schist. Feldspar, qtz, muscovite. Turmaline content is lower. Peg 345/40 |
| GB959 | 801121 | 8188941 | Pegmatite | 2023 | Feldspar, Quartz | Tourmaline | | Outcrop | Pegmatite ( 1m to 1.5 wide ) with alb, qtz, KF musc, tourmaline. Pegmatite is boudinaged. Peg 355/30 |
| GB960 | 801141 | 8188897 | Pegmatite | 2023 | Feldspar, Quartz | Muscovite, Tourmaline | | Outcrop | Pegmatite, 1.5 to 2m wide. Within foliation. Ab, qtz, musc, tourmaline. Peg 345/30 |
| GB961 | 801216 | 8188899 | Pegmatite | 2023 | Feldspar, Quartz | Muscovite, Tourmaline | | Outcrop | Pegmatite continuity from gb960. Diffuse contacts. |
| GB966 | 802039 | 8189069 | Pegmatite - Granitic | 2023 | Feldspar, Quartz | Tourmaline | Muscovite | Outcrop | Pegmatoidal granite or granitic pegmatite. Large outcrop, >20m. Intrusion? Or big pegmatite? Tourmaline+ab+qtz+muscovite. |
| GB967 | 802513 | 8189071 | Pegmatite | 2023 | Feldspar, Quartz | | | Outcrop | Sample from BLR153 point. |
| GB974 | 794757 | 8192353 | Pegmatite | 2023 | Feldspar, Quartz | Muscovite | Schorlite | Float | Float blocks of pegmatite with ab,qtz, muscovite and scholite. Borders are fine grained |
| GB976 | 794817 | 8192401 | Pegmatite | 2023 | Feldspar, Quartz | | Muscovite | Float | Pegmatite blocks chip. Blocks do not present visible schorlite, when it does it occur in small quantity. Ab+ qrz rich, + muscovite, Kf. |
| GB977 | 794881 | 8192319 | Pegmatite | 2023 | Feldspar, Quartz | Muscovite | | Outcrop | 0.5m wide low dipping pegmatite. Ab,qtz,musc pegmatite. Peg 100/02 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GB978 | 794881 | 8192335 | Pegmatite | 2023 | Feldspar, Quartz | | | Outcrop | Pegmatite hanging wall, outcroping as a 'floor'. Peg 015/10 |
| GB979 | 794916 | 8192298 | Pegmatite | 2023 | Feldspar, Quartz | Muscovite | Schorlite | Outcrop | Floor Outcrop at pegmatite HW. Schorlite, Ab, qtz, musc. |
| GB1003 | 799291 | 8190896 | Pegmatite | 2023 | Feldspar, Muscovite | Quartz | Tourmaline | Subcrop | Pegmatite subcrop. Narrow, n30w strike. Feldspar + mica + qtz + turmaline. |
| GB1016 | 795245 | 8192848 | Pegmatite | 2023 | Feldspar, Quartz | Muscovite | | Float | Float small blocks of pegmatite. Green mica, feldspar, qtz. Sampled |
| GB1017 | 795159 | 8192841 | Pegmatite | 2023 | Feldspar, Quartz | Muscovite | Schorlite | Float | Pegmatite floats with schorlite (<5%) present. Green mica, feldspar, qtz. Fine to cowrse grained. |
| GB1020 | 795023 | 8192669 | Pegmatite | 2023 | Feldspar, Quartz | | Schorlite | Float | Presence of schorlite bearing pegmatite floats. Medium sized blocks. |
| GB1023 | 794947 | 8192565 | Pegmatite | 2023 | Feldspar, Quartz | | Schorlite | Float | Pegamatite float, schorlite is rarier in this blocks. |
| GB1027 | 795282 | 8192454 | Pegmatite | 2023 | Feldspar, Quartz | | Schorlite | Float | Pegmatite floats. Big blocks. Schorlite bearing -peg, fine to coarse grain. |
| GB1030 | 796574 | 8192297 | Pegmatite | 2023 | Feldspar, Muscovite | | Schorlite, Quartz | Subcrop | Tonhao area, presence of pegmatite blocks. Muscovite, feldspar, schorlite, qtz. |
| VLM072 | 794984 | 8192062 | Pegmatite | 2024 | Feldspar, Quartz | Muscovite | Tourmaline | Float | Float gpe with muscovite light green and tourmaline |
| VLM076 | 794576 | 8192239 | Pegmatite | 2024 | Feldspar, Quartz | | Tourmaline | Float | Float pegmatite with tourmaline |
| VLM078 | 794703 | 8192433 | Pegmatite | 2024 | Feldspar, Quartz | Muscovite | Schorlite | Float | Block rolled quartz, ab+ muscovite +schorlite Zoned fine borders |
| VLM080 | 794614 | 8192526 | Pegmatite | 2024 | Feldspar, Quartz | | Schorlite | Float? | Outcrop pegmatite, No Spod, schorlite 245/60 |
| VLM081 | 794622 | 8192558 | Pegmatite | 2024 | Feldspar, Quartz | | Schorlite | Outcrop | Outcrop pegmatite, No Spod, schorlite 245/60 |
| VLM082 | 794643 | 8192589 | Pegmatite | 2024 | Feldspar, Quartz | | Tourmaline | Float | Float peg with tourmaline |
| VLM084 | 794754 | 8192463 | Pegmatite | 2024 | Feldspar, Quartz | | | Float | Block pegmatite Zoned borders fine grained |
| VLM095 | 795578 | 8192772 | Pegmatite | 2024 | Feldspar, Quartz | Tourmaline | | Float | Float pegmatite with tourmaline and quartz |
| VLM107 | 795258 | 8193586 | Pegmatite | 2024 | Feldspar, Quartz | Tourmaline | | Float | Bloco rolled pegmatite with tourmaline |
| VLM120 | 795101 | 8192773 | Pegmatite | 2024 | Feldspar, Quartz, Tourmaline | | | Float | Float pegmatite rich tourmaline |
| VLM121 | 794688 | 8192642 | Pegmatite | 2024 | Feldspar, Quartz | | Schorlite | Float | Float pegmatite schorlite |
| VLM122 | 794653 | 8192722 | Pegmatite | 2024 | Feldspar, Quartz | | Tourmaline | Subcrop | Subcrop pegmatite with tourmaline in drainage |
| VLM124 | 794648 | 8192798 | Pegmatite | 2024 | Feldspar, Quartz | | Muscovite | Float | Float pegmatite |
| VLM125 | 794651 | 8192858 | Pegmatite | 2024 | Feldspar, Quartz | | | Float | Pegmatite granitic |
| VLM130 | 795074 | 8192954 | Pegmatite - Granitic | 2024 | Feldspar, Quartz | | Tourmaline | Float | Block rolled quartz and schist some float pegmatite with tourmaline |
| VLM131 | 795102 | 8192926 | Pegmatite | 2024 | Feldspar, Quartz | Muscovite | Tourmaline | Float | Float pegmatite with mica Green and tourmaline |