

10 April 2024

## SIGNIFICANT GEOPHYSICS ANOMALY DETECTED IN GOIÁS STATE APPLICATION CONCESSION IN BRAZIL – SUPERIOR REE TARGET

- Goiás application is 3,262Has adjacent to operating niobium mine with radiogeophysics and magnetic surveys indicating strong anomaly for carbonatites which hold rare earth elements
- Patagonia’s technical team to commence geological evaluation and reconnaissance to build a geophysics/geological exploration database ahead of planned hyperspectral surveys and soil and rock chip sampling when concession granted

Patagonia Lithium Ltd (ASX:PL3, Patagonia or Company) is pleased to advise that it has identified through geophysics, artificial Intelligence analysis and existing deposit structures - a structure on its 860164/165 concession application that appears to be highly prospective for rare earths elements (REE) with large significant anomalies detected.

Based on the Araxá proportions, we estimated the zones for Catalão 1 using both bibliographic and geophysical data:

**Bibliography:** We considered proportions of 25% and 42% to estimate the alteration zone in Catalão.

**Geophysical Data:** The isovalues were estimated based on alterations around Catalão 2 and Catalão 1, with distances derived from the main anomalies observed in magnetic inversion.

Consequently, utilizing these two distinct methodologies, we estimate a finitization zone with probable REE enrichment.

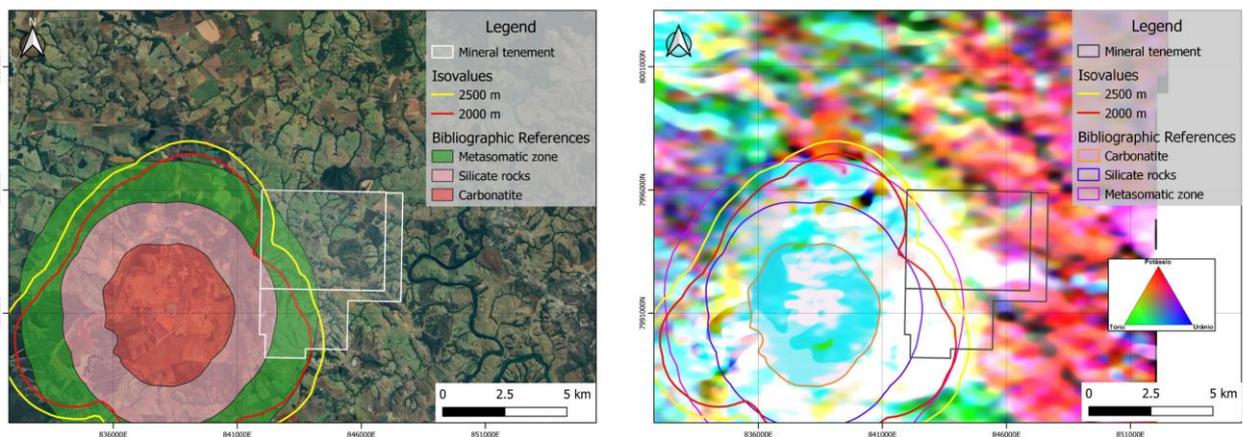


Figure 1. The above schematics (1a and 1b) produced by GE21, our geological consultants show the concession outline in white and the prominent east west structure. The metasomatic zone is the key area for ionic clays and the right hand side schematic (1b) shows uranium in blue, thorium in green and potassium in red from the radiometric survey.

The **white areas** in the schematic 1b are where fenitization has occurred which is what we are exploring for. Fenitization is an alkali metasomatism (fluids altering rocks) that

### Capital structure

58.6m - PL3 shares

5.5m - unquoted options

14.6m - PL3O quoted options

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### Board

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Sam Qi - NED

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widely occurs in and around the alkaline-carbonatite complexes, and is closely associated with REE mineralisation.

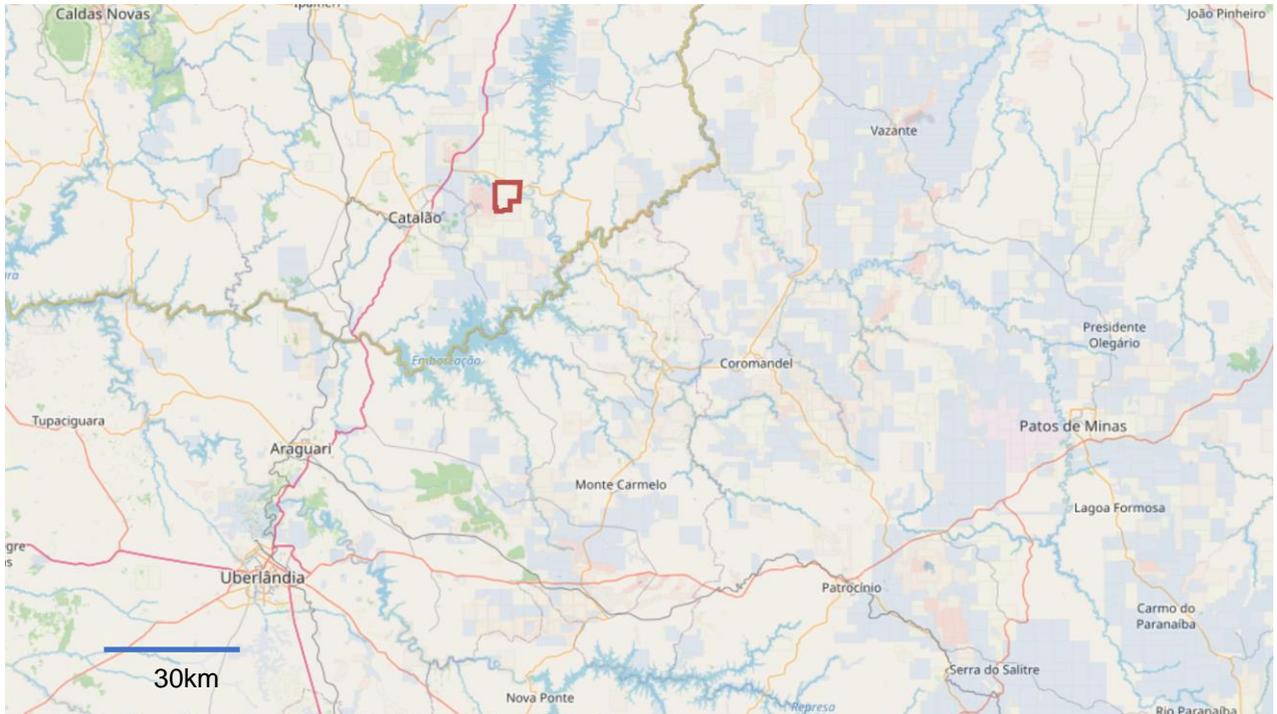
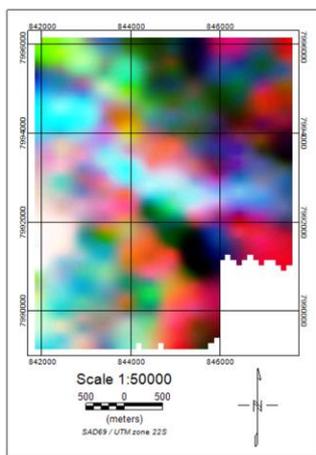


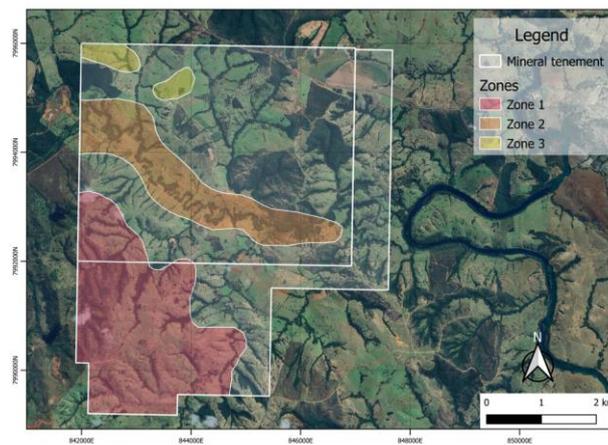
Figure 2. The two applications (red outline) are located less than 30km from the famous Catalão 1 rare earth deposit.

### Exploration Targets

- Interpolation of radiometric data for mineral tenement: Ternary.
- Areas of interest.



Ternary



- Zone 1**  
Regional anomaly concentric to carbonatite and also Could also be monazite – high potassium in river reinforced by thorium and uranium plus intrusion with system of faults.
- Zone 2**  
Superficial local anomaly with the same trend as 125 AZ
- Zone 3**  
Possible restricted body with similar chemical composition to carbonatite

Figure 3. Shows the three zones in the Goais project we have targeted, zone 1 in south with strong radiometric anomaly and system of faults.

We are arranging for a field crew to spend 5 days soil and rock chip sampling and mapping the faults at a finer scale. The project is easily accessible and has the infrastructure of the adjacent niobium mine. We will initiate this exploration once the permit is granted.

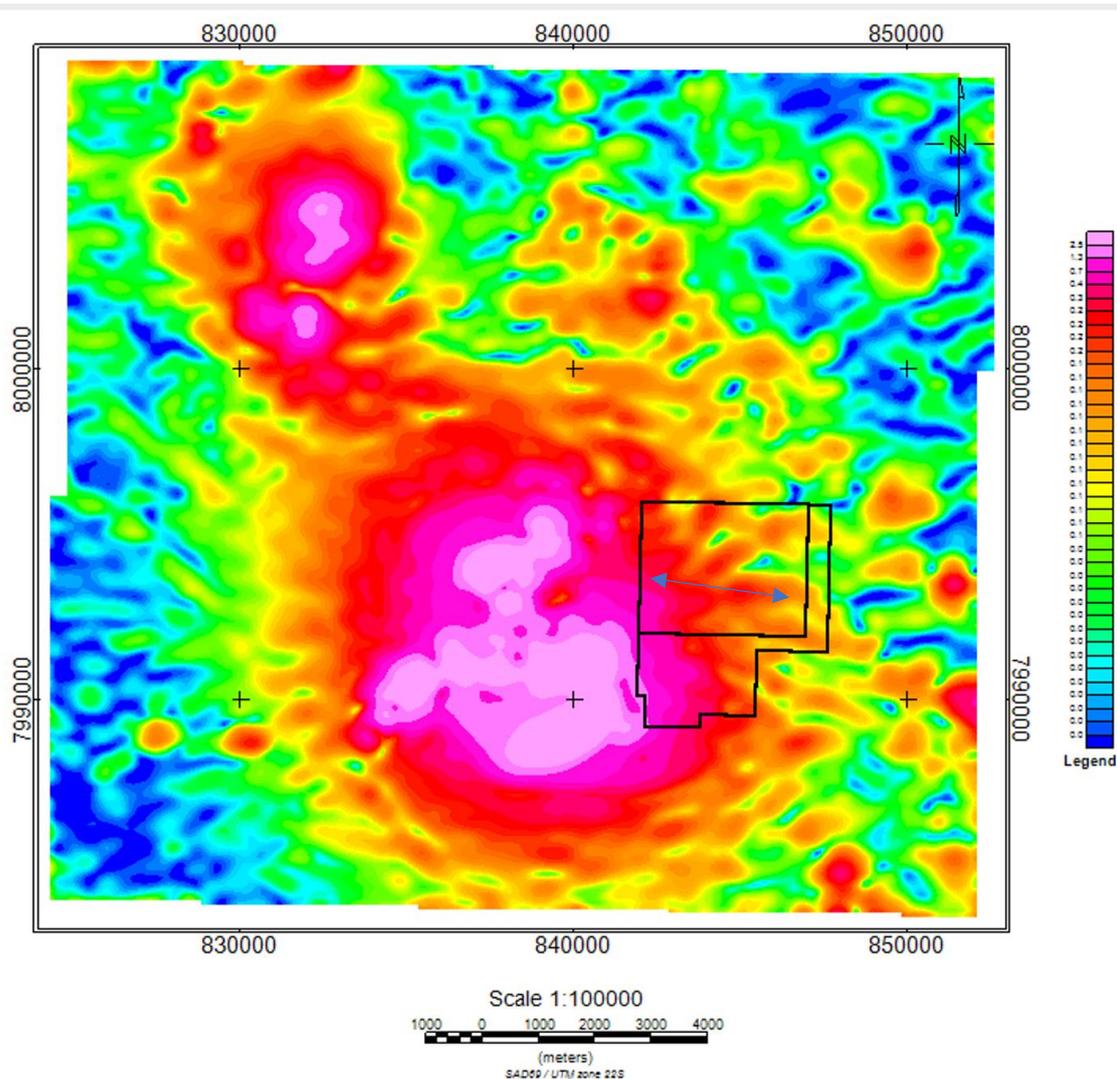


Figure 4. Magnetic survey showing prominent east west structure next to CMOC niobium mine

It is located within an anomaly of Uranium, Thorium, and Potassium, covering a potential metasomatic zone identified through ternary geophysical interpretation and by its proximity to Magnetic Vector Inversion anomalies. There is also a slight intersection with anomalies detected by ASA (*Analytical Signal Amplitude*), especially at low frequencies. The metasomatic zone, estimated based on a theoretical model observed in Araxá (a large Brazilian REE deposit) and maintaining similar proportions, demonstrates a correlation between the geophysical anomalies and the zone proposed by the theoretical calculation.

The interpretations can be segmented into three main zones. The first, of greatest importance, **is the metasomatic zone**. The second, an anomaly of Thorium and Uranium located within a structure aligned to the 125-degree Azimuth, is characterised by a topographic low that may be associated with the accumulation of radioactive minerals (possibly Monazites?) and potentially, Rare Earth Elements. The third zone, the second anomaly situated northwest of the area, also enriched in Uranium and Thorium, is located at the summit of a topographic elevation. This anomaly may represent an

igneous body with chemical characteristics similar to carbonatite, albeit smaller, not identified in the MVI (magnetic inversion) data.

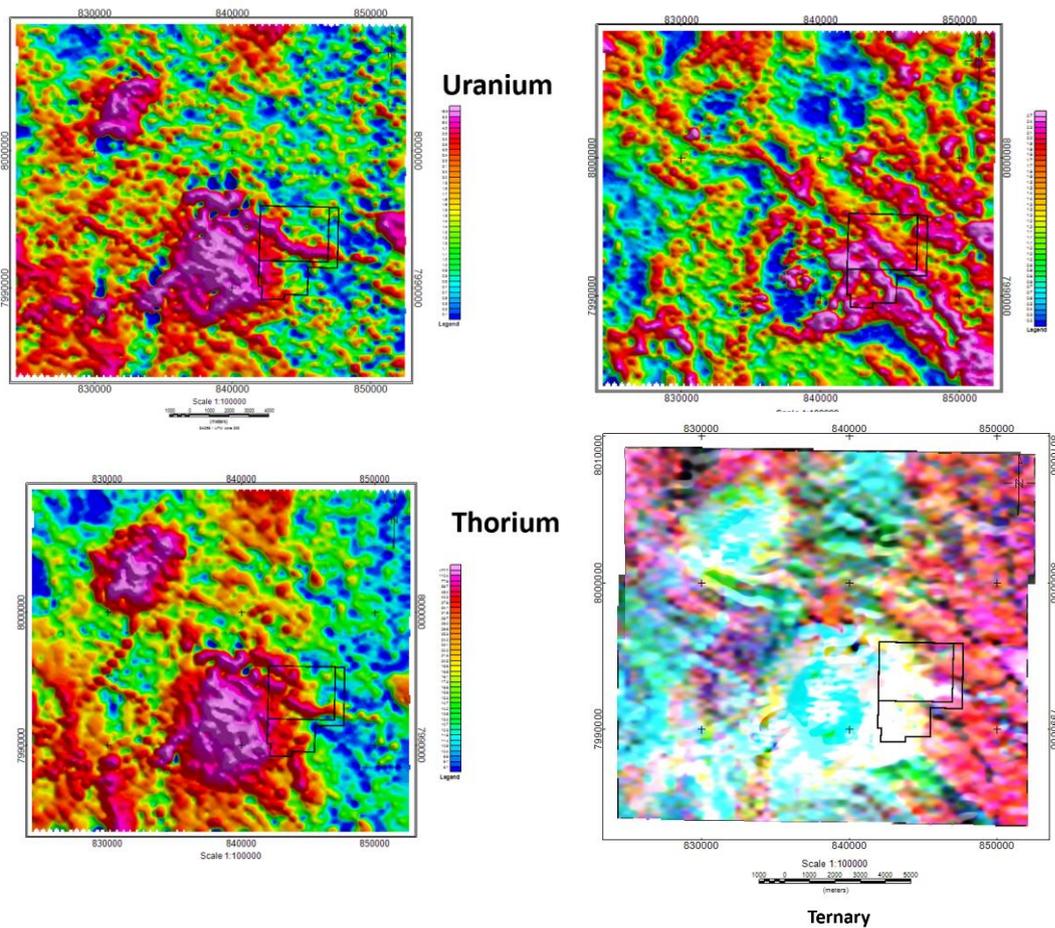


Figure 5: Shows radiometric surveys for thorium, uranium and potassium and ternary analysis showing white zones where fenitization has probably occurred.

Our **target signature is white** with fenitization occurring and has best possibility for REE discovery – we are outside the deep niobium structure. Potassium structure is very encouraging for REE, but all three surveys reinforce the shape of the structure that is evident. Potassium can be seen in the local river beds from the survey given it has much higher mobility.

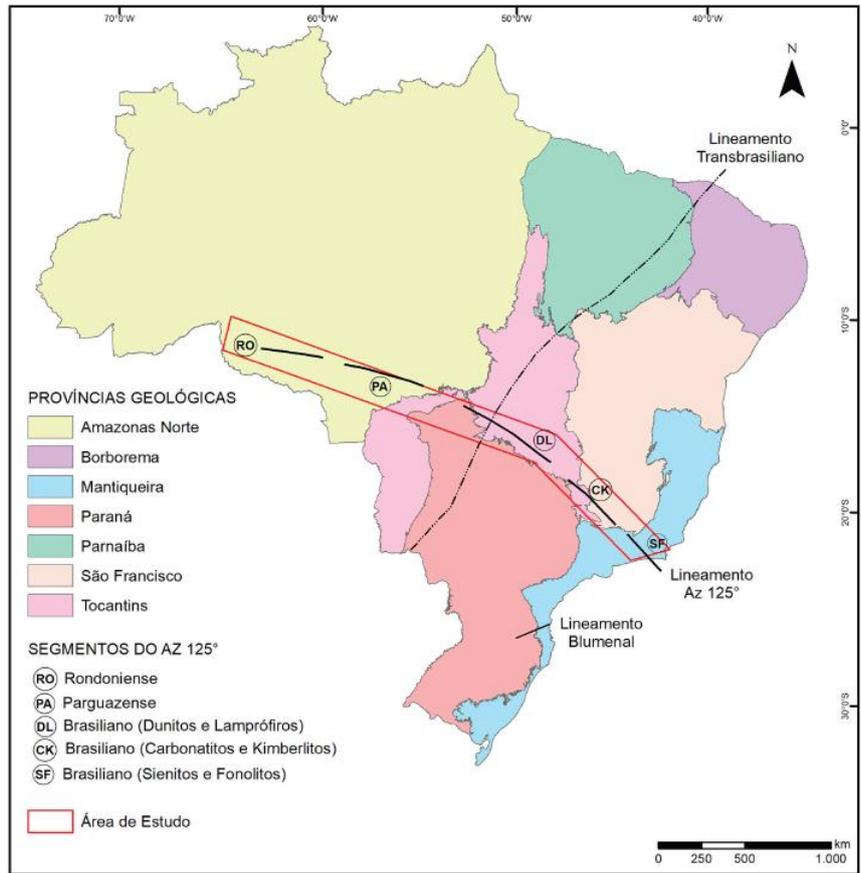


Figure 6. Araxá and Catalão 1 Rare earth mines (CK) are on the same trend, **125 AZ**. The bibliographic references show the same genesis and geological event as observed in Goiás.



Figure 7: Niobium mine and PL3 Concessions showing faulting and structural features. Our initial exploration will focus on dyke outcrops.

CMOC produced 7,489 tonnes of niobium in 2023. The niobium operations focus on mining and processing of niobium with ferroniobium as its major product.

**Geophysical Data:** The isovalues were estimated based on alterations around Catalão 2 and Catalão 1, with distances derived from the main anomalies observed in magnetic inversion.

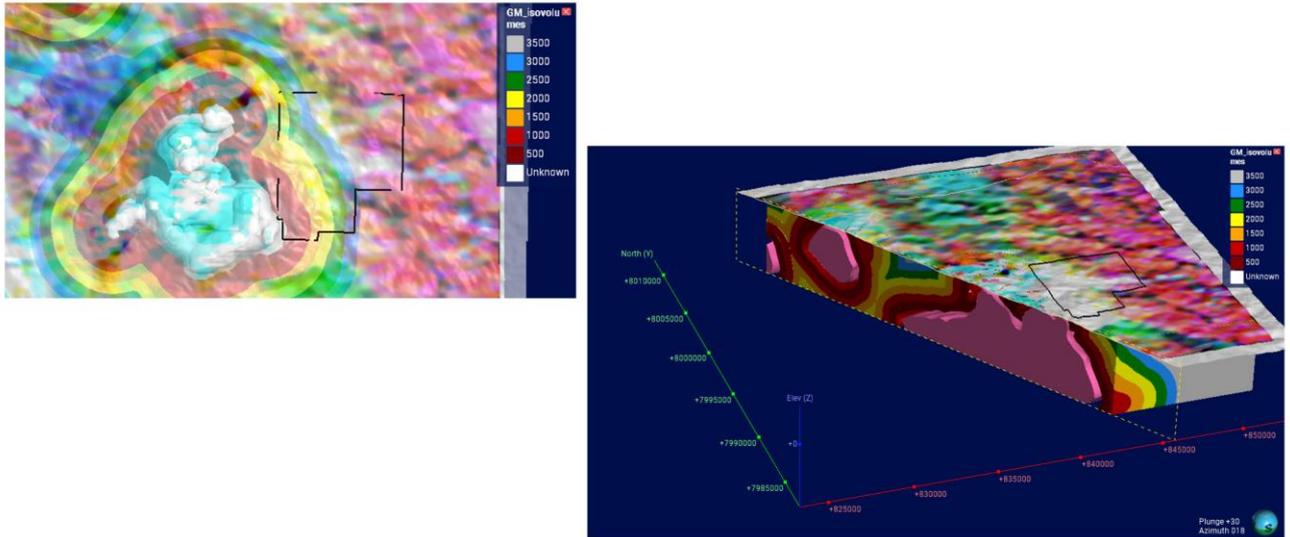


Figure 8. Shows magnetic inversions and distances derived by AI models of existing deposits and a section of what the body looks like from references and geophysics. The heat source is emanating from the bottom left hand corner at depth.

Phillip Thomas, Executive Chairman commented “We are delighted with the extensive research, artificial intelligence data processing and exploration confidence we have achieved over the past 6 weeks from detailed analysis of the geophysics that will give us a good footing to complete integrated exploration campaigns of mapping, soil and rock chip sampling. We expect the concessions to be granted in the next few months enabling us to commence ground exploration.”

Authorised for release by the Board of the Company.

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*Our socials - [twitter@patalithium](https://twitter.com/patalithium), [Instagram](https://www.instagram.com/patalithium), [facebook](https://www.facebook.com/patalithium), [pinterest](https://www.pinterest.com/patalithium) and [youtube](https://www.youtube.com/patalithium)*

## Competent Person Statement

*The information in this announcement that relates to exploration results is based on, and fairly represents information compiled by Phillip Thomas, MAIG FAusIMM, Technical Adviser of Patagonia Lithium Ltd and is Executive Chairman, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Thomas has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he has undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Thomas consents to the inclusion in this announcement of the matters based on this information in the form and context in which it appears.*

## About Patagonia Lithium Ltd

Patagonia Lithium has two major lithium brine projects – Formentera/Cilon in Salar de Jama, Jujuy province and Tomas III at Incahuasi Salar in Salta Province of northern Argentina in the declared lithium triangle. It has also applied **for 41,746 Has** of concessions exploring for **ionic REE clays, Niobium, and lithium in pegmatites**. Four exploration concession packages have been applied for. 830178/2024 has been granted.

Since listing on 31 March 2023, recharge water analysis, surface sampling and MT geophysics have been completed in preparation of an upcoming drill program at Formentera, where the first well JAM 24-01 has been completed with MT Geophysics at Tomas III showing low resistivity and very prospective. In July 2023, a 13 hole drill program was submitted for approval which was granted in January 2024. Samples as **high as 1,100ppm lithium** (2 June 2023 announcement) were recorded at Formentera and resistivity values as low as 0.3Ω.m were recorded during the MT Geophysics survey at Formentera making the project highly prospective. The Company confirms it is not aware of any new information or data that materially affects the information in this announcement.

# JORC Code, 2012 Edition – Table 1 report

## Patagonia Lithium Ltd ASX:PL3 Goias State applications 830164/2024 and 830165/2024

### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> <li>• Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>• Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>• Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>• In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul style="list-style-type: none"> <li>• There was no sampling as the application concession 830164/165 is still waiting to be granted. Publicly available radiometric data was acquired from the bureau of mineral resources in the state of Goias, Brazil.</li> <li>• The geophysics that measure Uranium, Thorium and Potassium were derived from satellite data accessing the Data from CPPLL, Codemge/Codemig, Metago, and others projects publicly available.</li> <li>• Acquisition and processing of LANDSAT, Sentinel 1, ASTER scenes, pre-processing, spectral analysis and evaluation/prioritization of results and the evaluation and processing of geophysical data was undertaken.</li> <li>• Public data from technical papers, the Catalao REE deposit and references on field sampling, drilling, geological lithologies and distances from source were collated.</li> </ul>
Drilling techniques	<ul style="list-style-type: none"> <li>• Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).</li> </ul>	<ul style="list-style-type: none"> <li>• No drilling was undertaken.</li> </ul>
Drill sample recovery	<ul style="list-style-type: none"> <li>• Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>• Measures taken to maximise sample recovery and ensure</li> </ul>	<ul style="list-style-type: none"> <li>• No sampling was undertaken. The geophysics data analysed that included radiometric, magnetic and gravity data is publicly available.</li> </ul>

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Logging	<ul style="list-style-type: none"> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul style="list-style-type: none"> <li>No logging was undertaken but the Artificial Intelligence model did reference sampling ratios of elements and distances from deposits of occurrences of rare earths. See sample of table below for REE. Araxa is a closely deposit.</li> </ul>																																																																																																																																																																																																																																																																																																																																																								
		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Carbonatite complex</th> <th colspan="2">Carbonatite</th> <th colspan="2">Silicate rocks</th> <th colspan="2">Fenitisation</th> <th colspan="2">Other</th> <th rowspan="2">Reference</th> </tr> <tr> <th>Total (km<sup>2</sup>)</th> <th>km<sup>2</sup></th> <th>%</th> <th>km<sup>2</sup></th> <th>%</th> <th>km<sup>2</sup></th> <th>%</th> <th>km<sup>2</sup></th> <th>%</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Amba Dongar</td> <td>6.7</td> <td>3.2</td> <td>47.7</td> <td>2.6</td> <td>39.4</td> <td>0.7</td> <td>10.3</td> <td>0.2</td> <td>2.5</td> <td>William-Jones and Palmer (2002)</td> </tr> <tr> <td>2</td> <td>Orijaszu</td> <td>11.9</td> <td>0.9</td> <td>7.9</td> <td>10.7</td> <td>90.0</td> <td>0.3</td> <td>2.1</td> <td></td> <td></td> <td>Gunthorpe and Buerger (1986)</td> </tr> <tr> <td>3</td> <td>Araxa</td> <td>21.2</td> <td>7.0</td> <td>33.0</td> <td>5.4</td> <td>25.4</td> <td>8.8</td> <td>42.6</td> <td></td> <td></td> <td>Traversa et al. 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(2012)</td> </tr> <tr> <td>15</td> <td>Alnö</td> <td>6.1</td> <td>0.4</td> <td>6.3</td> <td>3.7</td> <td>61.5</td> <td>2.0</td> <td>32.2</td> <td></td> <td></td> <td>Morogan and Lindblom (1995)</td> </tr> <tr> <td>16</td> <td>Copperhead</td> <td>0.01</td> <td>0.00003</td> <td>0.5</td> <td>0.01</td> <td>97.9</td> <td></td> <td></td> <td>0.0001</td> <td>1.7</td> <td>Rugless and Prigmo (1996)</td> </tr> <tr> <td>17</td> <td>Ipanema</td> <td>9.3</td> <td>0.0002</td> <td>0.002</td> <td>0.6</td> <td>6.0</td> <td>8.8</td> <td>94.0</td> <td></td> <td></td> <td>Giardino et al. (2012)</td> </tr> <tr> <td>18</td> <td>Salitre I</td> <td>43.3</td> <td>2.4</td> <td>5.5</td> <td>31.1</td> <td>71.7</td> <td>8.3</td> <td>19.1</td> <td>1.6</td> <td>3.7</td> <td>Barbosa et al. 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(2001); Issa Filho et al. (1984)	4	Panda Hill	9.8	1.9	19.3			7.9	80.4	0.03	0.3	Basu and Mayila (1986)	5	Nantali	3.5	0.2	4.3			3.4	95.6			Woodard and Hönta (2005)	6	Feni	6.5	3.3	50.7	0.6	9.7	2.6	39.6			Kersten and Morgan (1986)	7	Callander Bay	7.8	0.002	0.03	0.3	4.0	7.5	96.0			Currie and Ferguson (1971)	8	Kangankunde	2.9	0.2	6.2			2.7	93.8			Bowden (1985)	9	Sokli	62.9	21.6	34.4	13.5	21.5	27.8	44.2			Sarapää et al. (2013)	10	Olanusu	8.2	0.2	2.7	2.7	32.7	4.9	59.5	0.4	5.1	Prigmo (1994)	11	Lueshe	4.4	2.8	64.6	0.8	17.9	0.8	17.5			Maravic and Morteani (1980)	12	Sarfartöq	78.5	1.0	1.3			13.2	16.8	64.3	81.9	Secher and Larsen (1980)	13	Pollen	1.3	0.2	17.4	0.8	56.0	0.4	26.6			Robins and Tysseland (1983)	14	Virulundo Mountain	9.2	5.2	56.4			4.0	43.6			Torri et al. (2012)	15	Alnö	6.1	0.4	6.3	3.7	61.5	2.0	32.2			Morogan and Lindblom (1995)	16	Copperhead	0.01	0.00003	0.5	0.01	97.9			0.0001	1.7	Rugless and Prigmo (1996)	17	Ipanema	9.3	0.0002	0.002	0.6	6.0	8.8	94.0			Giardino et al. (2012)	18	Salitre I	43.3	2.4	5.5	31.1	71.7	8.3	19.1	1.6	3.7	Barbosa et al. (2012)	19	Loe Shilman (Western)	0.2	0.08	56.1			0.1	43.9			Mian and Le Bas (1986)	20	Oka	8.4	5.0	59.4	2.4	28.8	1.0	11.8			Lenz et al. (2006)	21	Afrakanda	5.6	0.3	4.9	3.7	66.1	0.6	29.0			Wu et al. (2013)	22	Newania	3.2	2.3	71.3			0.8	25.4	0.1	3.3	Schleicher et al. (1997)	23	Barna do Itapirapua	4.4	3.1	69.1			1.4	30.9			Andrade et al. (1999)	24	Aley	7.0	4.8	68.3	0.006	0.08	2.2	31.6			McLish et al. (2010)	25	Sillinjärvi	14.8	1.2	8.11	13.59	91.9					Puustinen (1970)	26	Qaqsarsuk	11.8	3.5	29.8			8.3	70.2			Kunzendorf and Secher (1987)		Average	13.4	2.7	27.9	3.6	27.7	4.6	40.6	2.6	3.8							
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Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul style="list-style-type: none"> <li>Not applicable no sampling undertaken.</li> </ul>																																																																																																																																																																																																																																																																																																																																																								
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF</li> </ul>	<ul style="list-style-type: none"> <li>Raw data from the magnetic surveys was reprocessed into 1D inversions.</li> </ul>																																																																																																																																																																																																																																																																																																																																																								

Criteria	JORC Code explanation	Commentary
	<p><i>instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i></p> <ul style="list-style-type: none"> <li>• <i>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.</i></li> </ul>	
Verification of sampling and assaying	<ul style="list-style-type: none"> <li>• <i>The verification of significant intersections by either independent or alternative company personnel.</i></li> <li>• <i>The use of twinned holes.</i></li> <li>• <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i></li> <li>• <i>Discuss any adjustment to assay data.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Not applicable as no sampling undertaken.</li> </ul>
Location of data points	<ul style="list-style-type: none"> <li>• <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.</i></li> <li>• <i>Specification of the grid system used.</i></li> <li>• <i>Quality and adequacy of topographic control.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Accuracy of the data is between 50-150m with data obtained at 400-600m intervals. Gravity data is more unreliable and thus was given a lower ranking.</li> </ul>
Data spacing and distribution	<ul style="list-style-type: none"> <li>• <i>Data spacing for reporting of Exploration Results.</i></li> <li>• <i>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.</i></li> <li>• <i>Whether sample compositing has been applied.</i></li> </ul>	<ul style="list-style-type: none"> <li>• 400-600m spacing depending on the satellite data used.</li> </ul>
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> <li>• <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i></li> <li>• <i>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this</i></li> </ul>	<ul style="list-style-type: none"> <li>• Orientation was perpendicular to earth surface</li> </ul>

Criteria	JORC Code explanation	Commentary
	<i>should be assessed and reported if material.</i>	
<i>Sample security</i>	<ul style="list-style-type: none"> <li>• <i>The measures taken to ensure sample security.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Not applicable as no sampling undertaken</li> </ul>
<i>Audits or reviews</i>	<ul style="list-style-type: none"> <li>• <i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Not applicable as no sampling undertaken</li> </ul>

## 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"> <li><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></li> <li><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></li> </ul>	<ul style="list-style-type: none"> <li>Mining concession 830.164/2024 and 830165/2024 are still pending being granted in the state of Goais, Brazil – the concessions when granted will be 100% owned by Patagonia Lithium subsidiary PL3 Mineracao Brazil Ltda. The licence when granted is for a 3 year period unless it is renewed for a further period. It has been referenced for lithium exploration. Both concessions cover a total of 3,262 Has.</li> </ul>
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <li><i>Acknowledgment and appraisal of exploration by other parties.</i></li> </ul>	<ul style="list-style-type: none"> <li>No exploration has been undertaken on this concession application. Adjacent to 830164/2024 is the CMOC Niobium mine. This is a private operation and information is not readily available on drill core data.</li> </ul>
<i>Geology</i>	<ul style="list-style-type: none"> <li><i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>	<ul style="list-style-type: none"> <li>The first target zone, of greatest importance, is the metasomatic zone. The second, an anomaly of Thorium and Uranium located within a structure aligned to the 125-degree Azimuth, is characterized by a topographic low that may be associated with the accumulation of radioactive minerals (possibly Monazites?) and potentially, Rare Earth Elements. The third zone, the second anomaly situated northwest of the area, also enriched in Uranium and Thorium, is located at the summit of a topographic elevation. This anomaly may represent an igneous body with chemical characteristics similar to carbonatite, albeit smaller, not identified in the MVI magnetic geophysics data.</li> <li>The Catalão I alkaline–carbonatite–phoscorite complex (ferro niobium mine adjacent) contains both fresh rock and residual (weathering-related) niobium mineralization. The fresh rock niobium deposit consists of two plug-shaped orebodies named Mine II and East Area, respectively emplaced in carbonatite and phlogopitite. Together, these orebodies contain 29 Mt at 1.22 wt.% Nb<sub>2</sub>O<sub>5</sub> (measured and indicated). In closer detail, the orebodies consist of dyke swarms of pyrochlore-bearing, olivine-free phoscorite-series rocks (nelsonite) that can be either apatite-rich (P2 unit) or magnetite-rich (P3 unit). Dolomite carbonatite (DC) is</li> </ul>

Criteria	JORC Code explanation	Commentary
		<p>intimately related with nelsonite. Natropyrochlore and calciopyrochlore are the most abundant niobium phases in the fresh rock deposit. Pyrochlore supergroup chemistry shows a compositional trend from Ca–Na dominant pyrochlores toward Ba-enriched kenopyrochlore in fresh rock and the dominance of Ba-rich kenopyrochlore in the residual deposit. Carbonates associated with Ba-, Sr-enriched pyrochlore show higher <math>\delta^{18}\text{OSMOW}</math> than expected for carbonates crystallizing from mantle-derived magmas. We interpret both the <math>\delta^{18}\text{OSMOW}</math> and pyrochlore chemistry variations from the original composition as evidence of interaction with low-temperature fluids which, albeit not responsible for the mineralization, modified its magmatic isotopic features. The origin of the Catalão I niobium deposit is related to carbonatite magmatism but the process that generated such niobium-rich rocks is still being determined and might be related to crystal accumulation and/or emplacement of a phosphate–iron-oxide magma.</p>
<p><i>Drill hole Information</i></p>	<ul style="list-style-type: none"> <li>• <i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i> <ul style="list-style-type: none"> <li>○ <i>easting and northing of the drill hole collar</i></li> <li>○ <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li>○ <i>dip and azimuth of the hole</i></li> <li>○ <i>down hole length and interception depth</i></li> <li>○ <i>hole length.</i></li> </ul> </li> <li>• <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></li> </ul>	<ul style="list-style-type: none"> <li>• The main geophysical data coming from georeferenced PDFs, highlighted by the correlation between samples is the F parameter, followed by the thorium-uranium ratio. There is a high correlation between Kd potassium factor and Thorium.</li> </ul>

Criteria	JORC Code explanation	Commentary
<i>Data aggregation methods</i>	<ul style="list-style-type: none"> <li><i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</i></li> <li><i>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</i></li> <li><i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></li> </ul>	<ul style="list-style-type: none"> <li>Not applicable – 1D inversion was used to better define the fenitization in the radiometric and magnetic surveys.</li> </ul>
<i>Relationship between mineralisation widths and intercept lengths</i>	<ul style="list-style-type: none"> <li><i>These relationships are particularly important in the reporting of Exploration Results.</i></li> <li><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></li> <li><i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg ‘down hole length, true width not known’).</i></li> </ul>	<ul style="list-style-type: none"> <li>Not Applicable as no drilling was undertaken.</li> </ul>
<i>Diagrams</i>	<ul style="list-style-type: none"> <li><i>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</i></li> </ul>	<ul style="list-style-type: none"> <li>Not Applicable as no drilling was undertaken.</li> </ul>
<i>Balanced reporting</i>	<ul style="list-style-type: none"> <li><i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid</i></li> </ul>	<ul style="list-style-type: none"> <li>Not Applicable as no drilling was undertaken.</li> </ul>

Criteria	JORC Code explanation	Commentary
	<i>misleading reporting of Exploration Results.</i>	
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> <li><i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i></li> </ul>	<ul style="list-style-type: none"> <li>See above for detailed geophysical results - Carbonatites and alkaline-silicate rocks are the most important sources of rare earth elements (REE) and niobium (Nb). Cooling and crystallizing carbonatitic and alkaline melts expel multiple pulses of alkali-rich aqueous fluids which metasomatize the surrounding country rocks, forming fenites during a process called fenitization. We are exploring for these rocks. These alkalis and volatiles are original constituents of the magma that are not recorded in the carbonatite rock, and therefore fenites are a key focus of a carbonatite system and our exploration efforts.</li> <li>RGB 3,2,10 – ratio 4,12 – PCA band 8,3 were used to identify lithium minerals. <b>Sentinel-2</b> imagery (low resolution – pixel 32m) yielded poor results so we will use Hi Res spectral.</li> </ul>
<i>Further work</i>	<ul style="list-style-type: none"> <li><i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li><i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>	<ul style="list-style-type: none"> <li>We intend to commence soil sampling and rock chip sampling as soon other the exploration concessions are granted 830164/2024 and 830165/2024.</li> </ul>