

FIELDWORK UNDERWAY AT ARREL LITHIUM PROJECT, ONTARIO, CANADA

Highlights

- A ground-based field program is now underway at the Arrel Lithium Project in northwestern Ontario, led by GeoMap Exploration Consultants.
- The Program includes prospecting, geological mapping, and sampling program with the aim to identify pegmatites outcrops, expected to take approximately two weeks.
- Fieldwork follows the Company's 2024 desktop study (*ASX Announcement dated 19 November 2024*), which identified the potential for lithium and Rare Earth Elements (REE) mineralisation based on interpretation of regional geophysical datasets.
- Exploration aims to expand the known testing three previously defined priority target areas (T01, T02, M01) as shown in Figure 1.

Bayan Mining and Minerals Ltd (ASX: BMM; "BMM" or "the Company") is pleased to advise that field activities have commenced at its 100%-owned Arrel Lithium Project, located in the Georgia Lake Pegmatite Field in Northwestern Ontario.

The fieldwork program is being carried out by experienced lithium and rare earth geological consultants, GeoMap Exploration Inc ("GeoMap"). The team brings together over 30 years' of expertise in mineral exploration, including gold, lithium and rare metals, having managed multiple projects globally. GeoMap has worked on the Georgia Lake lithium pegmatites for the past 15 years. Their background in early-stage project development, ensures a strong foundation for the work ahead at BMM's Canadian prospects. The GeoMap team is well equipped with a list of priority targets generated from its desktop study.

This latest exploration program is a follow-up to the encouraging results of the Company's 2024 desktop study (See ASX announcement dated 19 November 2024), which identified three Areas of Interest T01, T02, and M01 (see figure 1) interpreted as high-priority structural targets for LCT-type pegmatite mineralisation. In addition to lithium prospectivity, the study highlighted the potential for associated REE mineralisation based on anomalous U/Th and Th/K ratios and radiometric features commonly associated with REE-enriched systems.

The current program includes:

- Systematic ground prospecting and geological mapping,
- Targeted sampling in historically underexplored areas, especially the eastern portion of the licence.

Previous work primarily focused on the western part of the project area. The current program is designed to expand the exploration footprint across the remaining licence area, with emphasis on filling coverage gaps and testing newly prioritised targets.

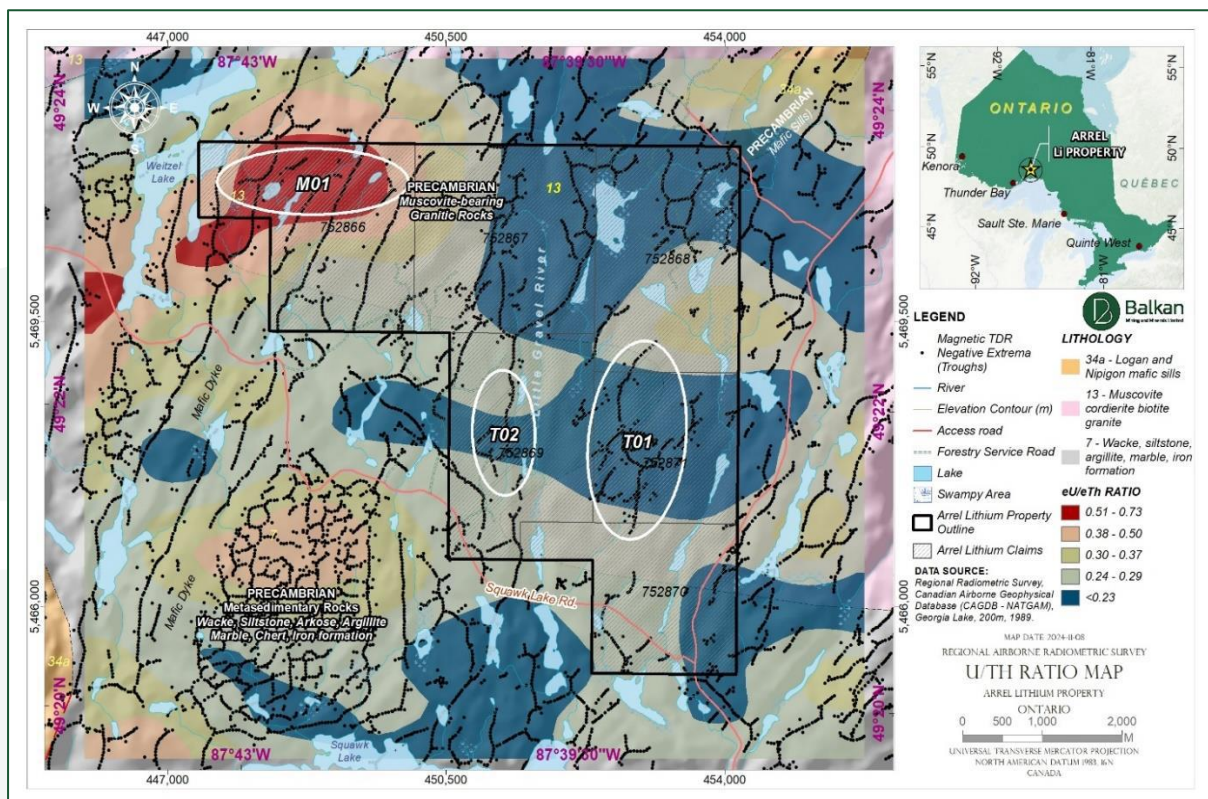


Figure 1: T01 and T02 target areas with the highest potential for Thorium-Li-REE enrichment in correlation with the negative extrema of the magnetic Tilt derivative (TDR) reflecting the probable location of faults, fractures, or shear zones.

Executive Director Fadi Diab commented:

"We're pleased to commence this field program at Arrel, which builds directly on the encouraging outcomes of the 2024 desktop study. That work highlighted not only the presence of favourable structures and geophysical signatures for lithium-bearing pegmatites, but also the potential for associated rare earth element mineralisation an increasingly important commodity group.

The combination of mapped pegmatites, radiometric anomalies, and regional structural architecture supports the potential for a broader mineralised system within the project area. This campaign is designed to test those areas on the ground, improve our geological understanding, and determine the scale and continuity of prospective zones across the project. The outcome of this work will be critical in assessing the broader potential of the Arrel Project and guiding our next steps."

Next Steps

The current field program is anticipated to be completed within two weeks. Rock samples collected during the program will be submitted for laboratory analysis, with assay results expected within four to six weeks of submission. Detailed results from the geophysical surveys will be processed in parallel. The Company will update the market once both geochemical results have been received and interpreted.

About Arrel Lithium Project

The 100% owned Arrel Project consists of 6 multi-cell claims (129 cells), covering 27.05km². The Property is located approximately 158km northeast of Thunder Bay and 30km south of Beardmore.

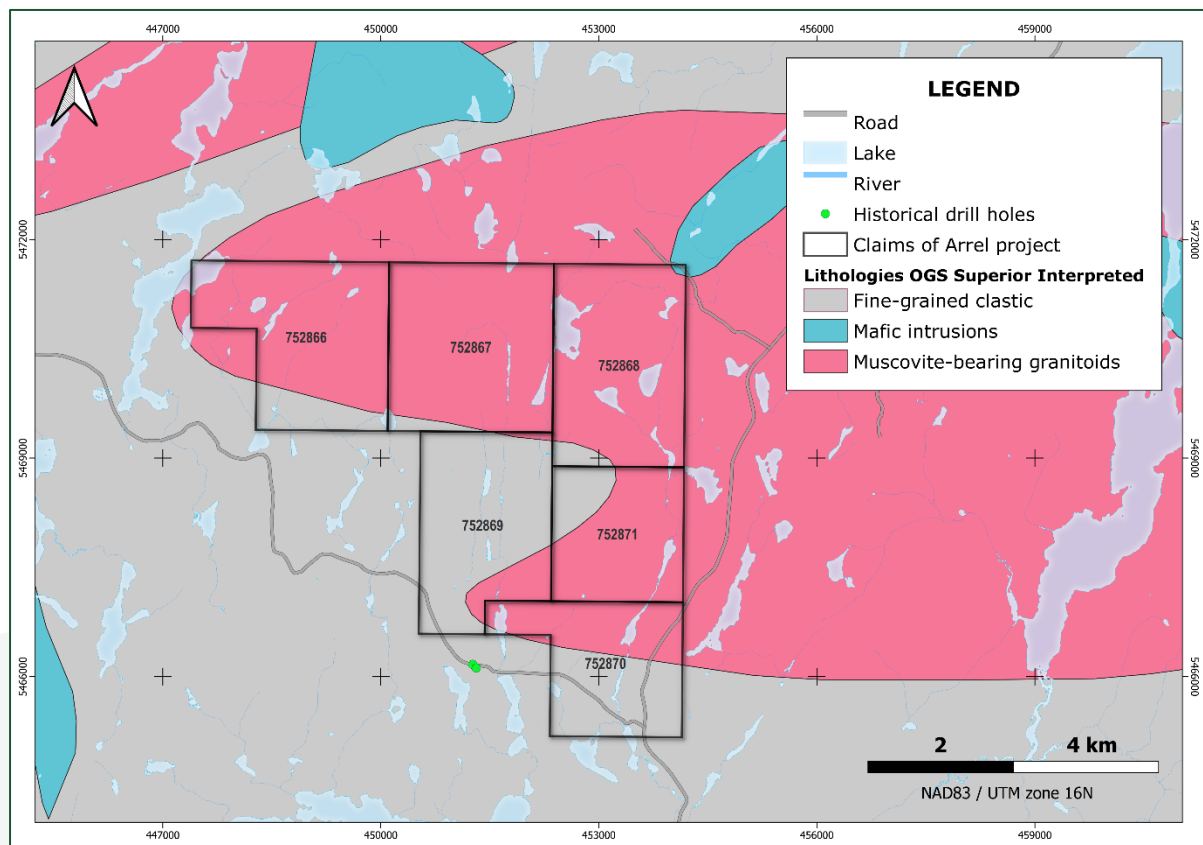


Figure 2: Arrel Project Geological Map

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Authorised for release by the Board of Bayan Mining and Minerals Limited

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Competent Persons Statement

The information in this report that relates to Exploration Targets or Exploration Results is based on information compiled by Mr Dejan Jovanovic, a Competent Person who is a Member of the European Federation of Geologists (EurGeol). The European Federation of Geologists is a Joint Ore Reserves Committee (JORC) Code 'Recognised Professional Organisation' (RPO). An RPO is an accredited organisation to which the Competent Person under JORC Code Reporting Standards must belong to report Exploration Results, Mineral Resources, or Ore Reserves through the ASX. Mr Jovanovic is the General Manager of Exploration and is a part-time contractor of the Company. Mr Jovanovic has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the JORC 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Jovanovic consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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.

The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcements.

Forward-looking Statements

Certain statements included in this release constitute forward-looking information. Statements regarding BMM's plans with respect to its mineral properties and programs are forward-looking statements. There can be no assurance that BMM's plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that BMM will be able to confirm the presence of additional mineral resources, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of BMM's mineral properties. The performance of BMM may be influenced by a number of factors which are outside the control of the Company and its Directors, staff, and contractors.

These statements include, but are not limited to statements regarding future production, resources or reserves and exploration results. All such statements are subject to certain risks and uncertainties, many of which are difficult to predict and generally beyond the control of the Company, that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements.

Except for statutory liability which cannot be excluded, each of BMM, its officers, employees and advisors expressly disclaim any responsibility for the accuracy or completeness of the material contained in these forward-looking statements and excludes all liability whatsoever (including in negligence) for any loss or damage which may be suffered by any person as a consequence of any information in forward-looking statements or any error or omission. BMM undertakes no obligation to update publicly or release any revisions to these forward-looking statements to reflect events or circumstances after today's date or to reflect the occurrence of unanticipated events other than required by the Corporations Act and ASX Listing Rules. Accordingly, you should not place undue reliance on any forward-looking statement.