

Discovery Lithium Inc. Announces Results of the 2024 Fall Exploration Program in Eeyou Istchee James Bay Region and Identification of LCT Pegmatite Geochemical Signature on Cirrus East and Bruce Lake Properties

Vancouver, British Columbia, March 20, 2025 – Discovery Lithium Inc. ("Discovery" or the "Company") (CSE:DCLI)(OTCQB:DCLIF)(FRA:Q3Q0)(WKN:A3EFKA), a Canadian exploration company advancing domestic energy freedom through regional lithium discovery, is pleased to announce the results of its 2024 Fall exploration program on its properties in the Eeyou Istchee James Bay region. These eight properties (Figure 1), acquired earlier in 2024 (see press releases dated June 6 and August 14, 2024), were targeted for their lithium-cesium-tantalum (LCT) pegmatite potential.

Highlights

- Identification of an LCT pegmatite geochemical signature on the Bruce Lake and Cirrus East properties, with fifteen sample returning favorable K/Rb ratios (<100) on the two properties and Ta₂O₅ values up to 82 ppm on Cirrus East.
- Orogenic gold mineralization identified in quartz veins on the Mantle and Opus properties, with two samples returning 0.30 and 0.66 g/t on the Mantle Property and one sample of 0.12 g/t Au on the Opus Property.
- Volcanic massive sulfide (VMS) base metal signature identified on the Mantle Property, including a sample containing 0.56% Zn.

Cirrus East and Bruce Lake Pegmatites

The Bruce Lake Property is adjacent to Q2 Metals' Mia Lithium project. During the 2024 Fall program, three pegmatite samples were collected from the western portion of the Bruce Lake Property (Figure 2). These pegmatites form dykes up to three meters wide and contain quartz, feldspar, garnet, and muscovite. The dykes are injected into the granodiorite of the Duncan Suite, indicating a favorable lithology for hosting LCT pegmatites, in addition to the volcanic rocks of the Yasinski Group. The three sampled pegmatite dykes returned favorable K/Rb ratios (<62), linking them to a highly differentiated magma, characteristic of LCT pegmatites.

The Cirrus East Project is located three kilometers west of Finn Resources' White Bear spodumene-bearing pegmatite. During the 2024 Fall program, 24 pegmatite samples were

collected, six of which returned K/Rb ratios below 50, Cs₂O values exceeding 100 ppm, and/or Ta₂O₅ values over 30 ppm (Table 1). The pegmatite dykes are sub-horizontal with a maximum thickness of two meters. In addition to coarse-grained quartz and feldspar, the pegmatites contain biotite, garnet, and, in some cases, muscovite and beryl. In addition to the previously mentioned samples, seven pegmatite dykes exhibited favorable K/Rb ratios (between 50 and 100), indicating a highly fractionated magma, characteristic of LCT pegmatites, and were predominantly concentrated in the eastern portion of the property (Figure 3).

The identification of LCT pegmatites on the Bruce Lake and Cirrus East properties marks a significant milestone for the Company. Further exploration is planned to assess the lithium mineralization potential of these properties.

Table 1. Table results for Cirrus Ed	ist Property
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Property	Sample #	Li ₂ O (ppm)	Cs ₂ O (ppm)	Ta ₂ O ₅ (ppm)	K/Rb
Cirrus East	D00297067	<22	101	82	80
Cirrus East	D00297066	<22	209	79	37
Cirrus East	D00297104	<22	50	44	57
Cirrus East	D00297105	<22	32	30	49
Cirrus East	D00297037	<22	118	22	72

Mantle Gold and Base Metal

The Mantle Property is located within the same volcano-sedimentary greenstone belt as the Mia Lithium Project. A total of 44 samples were collected during the 2024 Fall exploration program, with two samples returning promising gold and bismuth values and one sample showing anomalous zinc content (Table 2).

The gold-bearing samples were collected from 50 cm quartz veins containing disseminated sulfides, including pyrite and galena, injected into mafic volcanic rocks. These veins are consistent and traceable over 50 meters at surface. The zinc-bearing sample was collected from a 50 cm-thick horizon with disseminated pyrite and sphalerite, which extends over 60 meters along strike at surface.

Results from the regional prospecting campaign on the Mantle Property indicate potential for additional orogenic gold and volcanogenic massive sulfide (VMS) mineralization.

Table 2. Table of results for Mantle Property

Property	Sample #	Au (g/t)	Bi (ppm)	Pb (ppm)	Ag (ppm)	Zn (ppm)
Mantle	D00297559	0.067	2.8	66	1	5624
Mantle	D00297567	0.30	1000	1189	39	<5
Mantle	D00297652	0.66	< 0.1	<5	2	12

Other properties

On the Opus Property, sample D00297137 returned 0.12 g/t Au from a deformation zone within basalt containing disseminated pyrite.

On the Neptune Property, a two-meter-wide pegmatite dyke was identified containing molybdenite, biotite, and tourmaline. Assay results confirmed 0.64% Mo.

Airborne magnetic data acquisition

Airborne magnetic surveys were conducted over the properties to map subsurface structures and lithological variations. This technique is a cornerstone in mineral exploration, aiding in the identification of faults, fold structures, and potential mineralized zones. The data will be integrated into future exploration targeting.

Digital elevation model and imagery data acquisition

High-resolution digital elevation models (DEMs) and imagery were collected to support geological mapping and logistical planning. These tools enhance field interpretations and improve the precision of exploration activities in the James Bay Area and have proved to help successfully target mineral deposits.

Next Steps

Discovery Lithium Inc. is encouraged by the results of its 2024 Fall exploration program. The identification of LCT pegmatite geochemical signatures and promising gold and base metal mineralization underscores the potential of the Company's properties. Future exploration programs will focus on further delineating these targets, with an emphasis on lithium-bearing pegmatites and precious and base metal occurrences.

On behalf of the Board of Directors,

Mike Hodge

President & Chief Executive Officer

Oualified Person

The technical content of this news release has been prepared by Jonathan Marleau, P. Geo. (OGQ # 2277), from Dahrouge Geological Consulting Ltd. who is not an independent Qualified Person (QP) as defined in National Instrument 43-101, Standards of Disclosure for Mineral Projects. M. Marleau participated in the 2024 Fall exploration program of Discovery Lithium.

About Discovery Lithium (CSE:DCLI)(OTCQB:DCLIF)(FRA:Q3Q0)(WKN:A3EFKA)

Discovery Lithium Inc. is a Canadian exploration company focused on advancing mineral resource projects in North America. The Company holds a 100% interest in 1,675 mineral claims in Serindac Lake and 2,113 mineral claims in Vaubert Lake for a combined total of approximately 164,283 hectares (~405,952 acres) located in the Nunavik region of Northern Quebec, and with a further total of 303 mineral claims comprising approximately 16,392 hectares (~40,505.5 acres) identified as the Route De Nord, Lac Belanger, Lac Ferland and Lac Roberston properties located across the northern and eastern regions of Québec including the prolific lithium district of the James Bay region. Additionally, the Company is actively advancing its ESN Project for gold exploration in Nevada and evaluating the Koster Dam Project in Central British Columbia through

a joint venture with Cariboo Rose Resources. Find out more at: <u>www.discoverylithium.com</u> and follow us on <u>X</u> (formerly twitter), Facebook, and <u>LinkedIn</u>.

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Caution Regarding Forward-Looking Information

Certain statements contained in this news release may constitute "forward-looking information" within the meaning of Canadian securities legislation. Forward-looking information is often, but not always, identified by the use of words such as "anticipate", "plan", "estimate", "expect", "may", "will", "intend", "should", "potential", "indicative" and similar expressions. Forward-looking information in this news release includes, but is not limited to, statements regarding the Opus, Radisson, Mantle, Neptune, Cirrus East, Cirrus West, Alto and Bruce Lake properties (the "Claims"), including the Company's plans and expectations regarding the Claims, the potential presence of LCT pegmatites or spodumene on or around the Claims and other statements regarding the Company's future business plans and objectives. Forward-looking information involves known and unknown risks, uncertainties and other factors that may cause actual results or events to differ materially from those anticipated in such forward-looking information. The Company's actual results could differ materially from those anticipated in this forward-looking information as a result of risks and uncertainties inherent in the exploration and development of mineral properties, fluctuations in commodity prices, counterparty risk, market conditions, regulatory decisions, competitive factors in the industries in which the Company operates, prevailing economic conditions, changes to the Company's strategic growth plans, and other factors, many of which are beyond the control of the Company. The Company believes that the expectations reflected in the forward-looking information are reasonable, but no assurance can be given that these expectations will prove to be correct and such forward-looking information should not be unduly relied upon. Any forward-looking information contained in this news release represents the Company's expectations as of the date hereof and is subject to change after such date. The Company disclaims any intention or obligation to update or revise any forward-looking information whether as a result of new information, future events or otherwise, except as required by applicable securities legislation.

Cautionary Statement Regarding Third-Party Information. The Company notes that information regarding the Mia Lithium project and White Bear pegmatite has been sourced from publicly available materials and has not been independently verified. The Company makes no

representations as to the accuracy or completeness of this third-party information and investors are cautioned not to place undue reliance on such statements.

Neither the Canadian Securities Exchange nor its Regulation Service Provider accepts responsibility for the adequacy or accuracy of this news release.

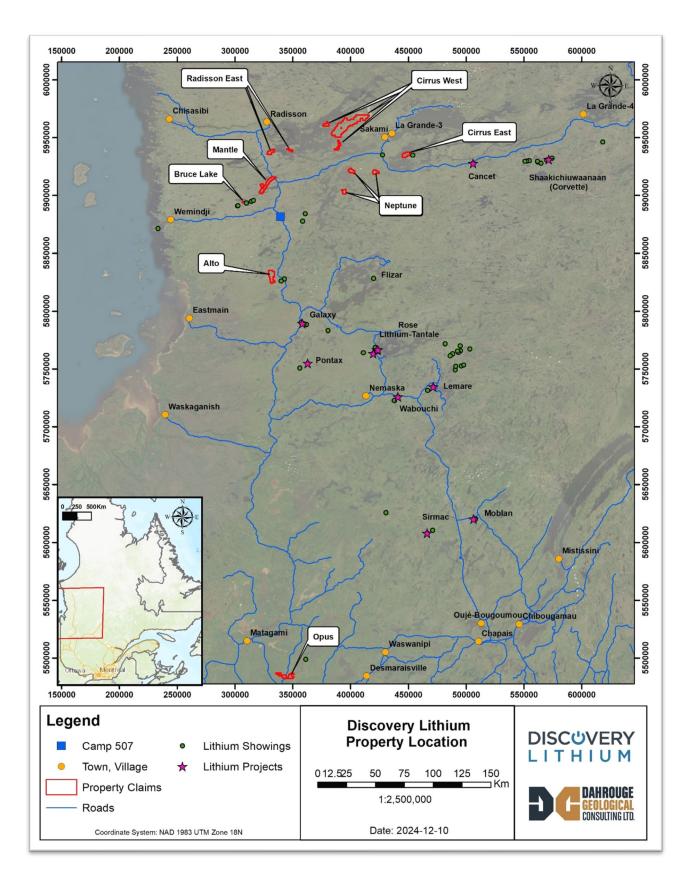


Figure 1: Map of the Discovery Lithium James Bay Projects

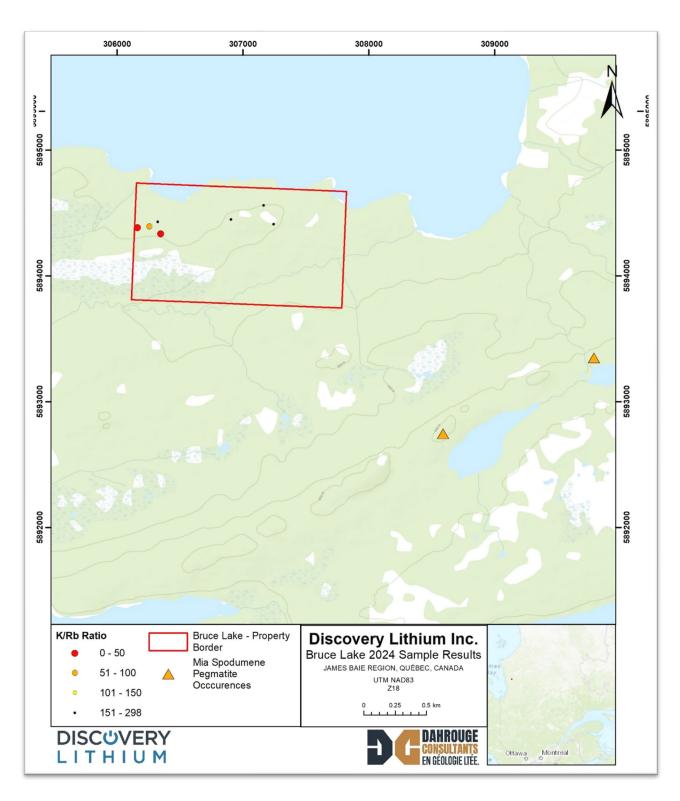


Figure 2 Map of the K/Rb ratio of the Bruce Lake Property

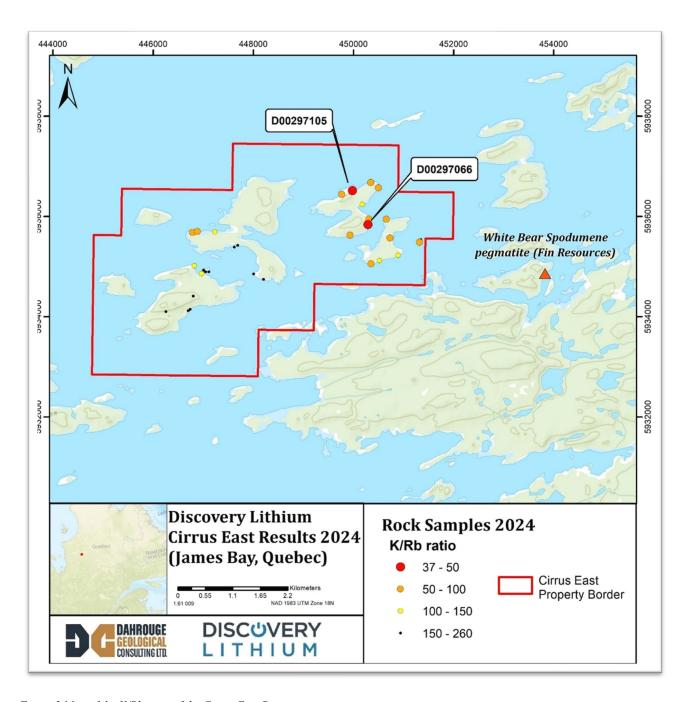


Figure 3 Map of the K/Rb ratio of the Cirrus East Property