



COMMUNITY NEWSLETTER

SHAAKICHIUWAANAAN



July 2025

MESSAGE FROM Frédéric Mercier- Langevin Chief Operating/ Development Officer

ORGANIZING AND OPTIMIZING PATRIOT'S PROJECTS

As Chief Development and Operating Officer at Patriot, I am truly honoured and genuinely excited to support the advancement of the Shaakichiuwaanaan Project. This is an exceptional opportunity to contribute to a meaningful and forward-looking initiative. My role is to help guide the technical development of the project, including the Feasibility Study and Environmental and Social Impact Assessment, ensuring both are completed with a high degree of quality and in alignment with community expectations and regulatory frameworks.

With over 20 years of experience in both open pit and underground mining operation I bring a comprehensive background in mine development, operations, and commissioning. Having worked extensively in Northern mining environments in Quebec, Ontario, and Nunavut, I understand the importance of tailoring our strategy to local conditions and values.

I am committed to working closely with our multidisciplinary teams and local partners to deliver a project that reflects Patriot's values of sustainability, community engagement, and operational excellence.

IN THIS NEWSLETTER

1. Message from the COO/CDO
2. Update on the Shaakichiuwaanaan Project: MRE update
3. Mining 101: caesium, tantalum, gallium, and lithium
4. Community participation
5. News releases from last quarter



Frédéric Mercier-Langevin

SHAAKICHIUWAANAAN

Hard Rock Lithium

In Eeyou Istchee James Bay



MINERAL RESOURCE ESTIMATE

Significant Mineral Resource Estimate (MRE) upgrade at the Shaakichiuwaanaan Project over the past 3 years.

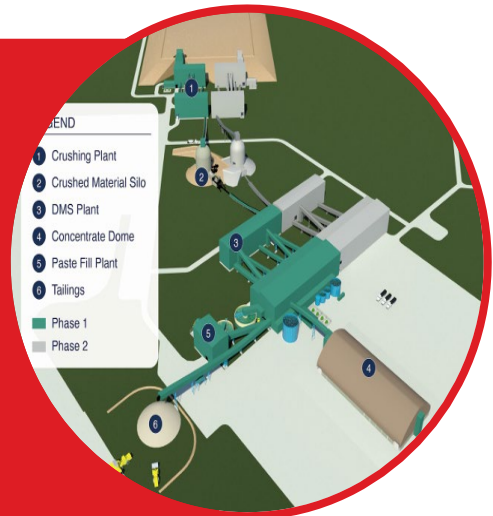
MAY 2025

CV5 & CV13 Spodumene Pegmatites

Maintained tonnage and grade while increasing confidence level to support Feasibility Study.

- Indicated: 108.0 Mt at 1.40% Li_2O , 166 ppm Ta_2O_5 , and 66 ppm Ga
- Inferred: 33.3 Mt at 1.33% Li_2O , 156 ppm Ta_2O_5 , and 65 ppm Ga

The current MRE¹, with an increase of ~30% and ~306% in indicated resources at CV5 and CV13, respectively, compared to the August.

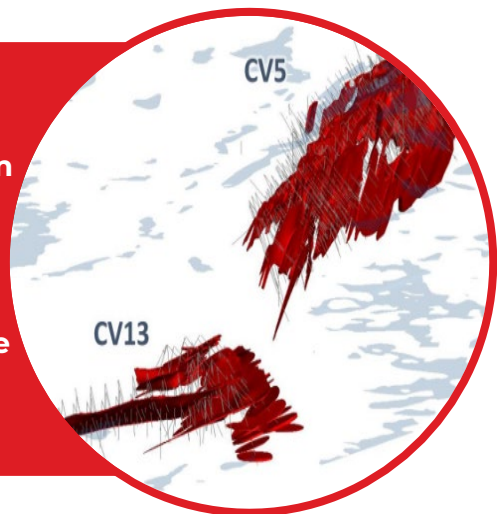


AUGUST 2024

CV5 & CV13 Spodumene Pegmatites

- Indicated: 80.1 Mt at 1.44% Li_2O and 163 ppm Ta_2O_5
- Inferred: 62.5 Mt at 1.31% Li_2O and 147 ppm Ta_2O_5

Resource update reaffirms the Tier 1 nature of the spodumene pegmatites that define the Shaakickiuwaanaan Project.



JULY 2023

CV5 Spodumene Pegmatite

- Inferred: 109.2 Mt at 1.42% Li_2O and 160 ppm Ta_2O_5

The largest lithium pegmatite in the Americas



¹The cut-off grade of the MRE is variable depending on the mining method and pegmatite (0.40% Li_2O open-pit, 0.60% Li_2O underground CV5, and 0.70% Li_2O underground CV13). The Effective Date of the May 2025 MRE is January 6, 2025. Mineral Resources are not Mineral or Ore Reserves as they do not have demonstrated economic viability.

The technical information herein concerning the Shaakichiuwaanaan Project is based upon, and fairly represents, information compiled by Mr. Darren L. Smith, M.Sc., P.Geo., Executive Vice President of Exploration for Patriot Battery Metals Inc., who is a Qualified Person as defined by National Instrument 43-101 – Standards of Disclosure for Mineral Projects and member in good standing with the Ordre des Géologues du Québec and the Association of Professional Engineers and Geoscientists of Alberta. Mr. Smith has reviewed and approved the technical information herein.

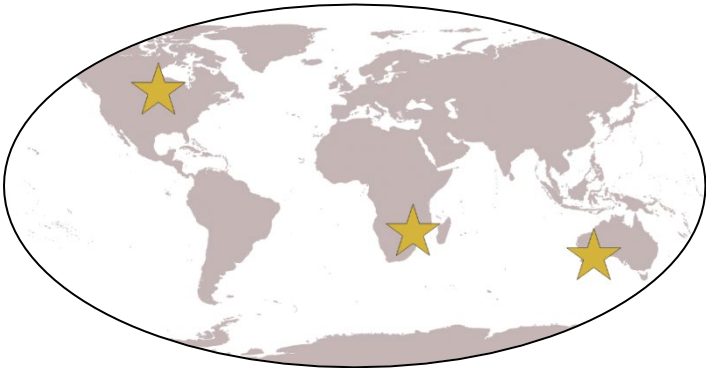
MINING 101

What is caesium and why does it matter?

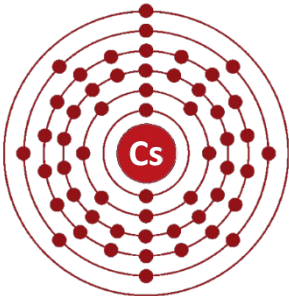


WHAT IT IS AND WHERE DOES IT COME FROM?

Caesium is a soft, silvery-gold metal. In nature, it's primarily found in pollucite, a mineral associated with rare-element pegmatites, however it is extremely rare globally with only three pegmatite occurrences that have been commercially mined:



- ♦ **Tanco, Manitoba**
(currently producing but nearing the end of its mine-life)
- ♦ **Bikita, Zimbabwe**
(mine exhausted)
- ♦ **Sinclair, Western Australia**
(mine exhausted)



Online Resource

Commodity Summaries:
Pollucite (caesium)



At the Shaakichiuwaanaan Project, caesium is hosted in the mineral pollucite and represents a valuable secondary product alongside a world-class lithium deposit, with lithium being the primary focus of development.



Online Resource

High-grade caesium at
Shaakichiuwaanaan



Pollucite is named after Pollux, the demigod son of Zeus, twin brother of Castor, represented by the constellation Gemini.



CAESIUM APPLICATIONS



Environment-friendly drilling fluids used in the oil and gas industry



Pharmaceuticals & Healthcare



Efficient conversion of light energy into electrical energy in photocells



Extremely accurate atomic clocks (accurate to about 1 second in 20 million years!)



GPS systems (atomic clock)

MINING 101

Other Critical Minerals



 **Online Resource**

Québec Plan for the Development of Critical and Strategic Minerals 2020-2025  [Click here](#)

The Québec Government considers that critical minerals have economic importance in key sectors of our economy today, present a high supply risk, and have no commercially available substitutes. Caesium, tantalum, gallium, and lithium are considered critical for a green and prosperous economy.

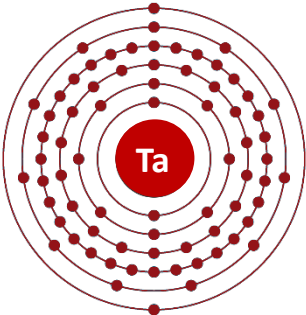
TANTALUM



- Tantalum is a critical and strategic metal in key Western world jurisdictions.
 - Majority of current supply comes from the Democratic Republic of Congo and Rwanda (around 60%).
- In nature, it's primarily found in tantalite, a mineral associated with rare-element pegmatites.
- Shaakichiuwaanaan ranks as top five tantalum pegmatite Mineral Resource in the world.

 **Online Resource**

Commodity Summaries: Tantalite (tantalum)  [Click here](#)



The largest market for tantalum is the capacitor industry. High-reliability capacitors are used in cell phones, laptops and automotive electronics.

GALLIUM

- Gallium is a critical and strategic metal in key Western world jurisdictions.
 - China controls more than 90% of the Gallium market and in late 2024 banned all exports to the USA.
- There are no primary sources of gallium currently.
 - Gallium supply comes as a by-product from bauxite (sedimentary rock with a relatively high aluminium content) and zinc processing.
- Pegmatites, like at Shaakichiuwaanaan, have been identified as a potential new source of supply.

 **Online Resource**

Patriot Corporate Presentation  [Click here](#)



Gallium is a critical component in high-tech applications and electronics such as light emitting diodes (LEDs).

LITHIUM

Lithium is a soft and silver-grey metal. In nature, it is never found as a pure metal. At the Shaakichiuwaanaan Project, the exploration activities are focused on a rock called pegmatite. This rock is composed of different minerals, including spodumene. Lithium is an element contained in the spodumene mineral. Lithium possesses unique properties which make it useful in a wide range of essential applications, among them:



CV5 Spodumene Concentrate



Rechargeable batteries for electric vehicles



Ceramic and glass



Medicine



Air cleaner, cooling & drying air



Alloys reducing the weight of aircraft & vehicles

COMMUNITY EVENTS



In April, we had an in-person meeting with the Ratt Family to discuss fish compensation projects and the preliminary closure plan for the Shaakichiuwaanaan Project. We also organized a public information session at the Mitchuap Fireplace. Community members were invited to consult posters on different aspects of the Shaakichiuwaanaan Project. The purpose was to present the Shaakichiuwaanaan Mining Project under study, share data on the receiving environment, gather feedback and answer questions. We met again with the Ratt family in May to talk about communication processes and environmental data.

In June, Patriot met with the new Chisasibi Economic Development Officer and presented him an overview of the Shaakichiuwaanaan Project. We also met with a representative of Adult Education Services and the Director General of the new Eeyou Istchee College of Science & Technology. The objective was to introduce our Human Resources manager and to learn about the training programs available in Chisasibi.



Explanation on activities going on at Shaakichiwaanaan site to the Ratt Family, Patriot's Community Liaison Office in Chisasibi, April 2025.

Meeting with the Ratt Family in hybrid mode (in-person and virtual), May 2025.



NEWS RELEASES

Highlights

From last quarter



To access all Patriot Battery Metals news releases, please visit <https://patriotbatterymetals.com/news/>

 [Click on the titles to read more](#)

April 6, 2025	SENIOR MINING EXECUTIVE – FREDERIC MERCIER-LANGEVIN TO JOIN PATRIOT BATTERY METALS
April 9, 2025	LARGE, HIGH-GRADE CESIUM DISCOVERY CONFIRMED AT SHAAKICHIUWAANAAN, CANADA
May 1, 2025	PATRIOT PROVIDES PERMITTING PROGRESS UPDATE ON THE SHAAKICHIUWAANAAN LITHIUM PROJECT
May 12, 2025	SIGNIFICANT MINERAL RESOURCE UPGRADE AT SHAAKICHIUWAANAAN LITHIUM PROJECT TO UNDERPIN IMPENDING FEASIBILITY STUDY REPRESENTING AN INCREASE OF ~30% AND ~306% IN INDICATED RESOURCES AT CV5 AND CV13, RESPECTIVELY
June 10, 2025	HIGH-GRADE POLLUCITE CONFIRMED AS MAIN CAESIUM HOST MINERAL AT THE VEGA AND RIGEL ZONES
June 25, 2025	WORK PROGRAMS COMMENCE TO UNLOCK TANTALUM AS A HIGH-VALUE BY-PRODUCT CRITICAL METAL OPPORTUNITY

NEW VIDEO SERIES


Head over to Patriot’s YouTube Channel to watch “Short Stories” with our CEO, Ken Brinsden.



 [Click here](#)

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To consult previous editions of our community newsletters

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We welcome your feedback



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Forward-looking statements are not guarantees of future performance and involve risks, uncertainties and assumptions, which are difficult to predict. Assumptions underlying the Company’s expectations regarding forward-looking statements or information contained in this newsletter include, among others, the Company’s ability to comply with applicable governmental regulations and standards, its success in implementing its strategies, achieving its business objectives, the ability to raise sufficient funds from equity financings in the future to support its operations, and general business and economic conditions. The foregoing list of assumptions is not exhaustive. Prospective investors reading this newsletter are cautioned that forward-looking statements are only predictions, and that the Company’s actual future results or performance are subject to certain risks and uncertainties including, but not limited to: risks related to the Company’s mineral properties being subject to prior unregistered agreements, transfers or claims and other defects in title; risks related to the Company’s history of losses, which may continue in the future; risks related to increased competition and uncertainty related to additional financing that could adversely affect its ability to attract necessary capital funding or obtain suitable properties for mineral exploration in the future; risks related to mineral resource estimates based on inferred resources, which are not mineral reserves and have no demonstrated economic viability; risks related to its officers and directors becoming associated with other natural resource companies, which may give rise to conflicts of interest; uncertainty and volatility related to stock market prices and conditions; further equity financing(s), which may substantially dilute the interests of the Company’s shareholders; risks relating to its exploration operations; dependence on general economic, market or business conditions; changes in business strategies; environmental risks and remediation measures; and changes in laws and regulations. Readers are directed to carefully review the detailed risk discussion in the Company’s most recent Annual Information Form filed under Patriot Battery Metals Inc.’s profile on SEDAR+ (<https://www.sedarplus.ca/landingpage/>) for a fuller understanding of the risks and uncertainties that affect the Company.