

# Patriot Achieves 79% Recovery in Dense Media Separation Test Work on the CV5 Pegmatite, Corvette Property, Quebec

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## Highlights

- Preliminary Dense Media Separation ("DMS") followed by magnetic separation on drill core from the CV5 Pegmatite
  - 79% recovery to produce 5.8% Li<sub>2</sub>O spodumene concentrate with low Fe<sub>2</sub>O<sub>3</sub> (0.60%)
- Results affirm previous Heavy Liquid Separation ("HLS") tests and indicate a strong potential for a DMS driven flowsheet
- An HLS screening program is nearing completion and will assess the liberation and recovery characteristics at different particle sizes

VANCOUVER, British Columbia and SYDNEY, Australia, Dec. 19, 2022 -- [Patriot Battery Metals Inc.](#) (the "Company")

Figure 1: Spodumene concentrate (DMS + Non-Magnetic fractions) - 5.8% Li<sub>2</sub>O and 0.60% Fe<sub>2</sub>O<sub>3</sub> at 79% recovery

The metallurgical test program for the Project is being completed by SGS Canada Inc. at their facility in Lakefield, ON,

A total of approximately 143 kg of composited drill core, from drill holes CF21-001 and 002, was processed through a DMS

Mineral Process Consultant and Project Steering Group member, Brett Grosvenor, comments:

*"The results of this preliminary DMS testwork are impressive and more importantly they strongly support a simple DMS*

The coarse-grained nature of the mineralization at CV5 allows for strong mineral liberation and recovery at relatively co

The next phase of the flowsheet development has been initiated and includes the collection of eleven (11), ~10 m core

Figure 2: Close-up of spodumene concentrate (DMS + Non-Magnetic fractions) - 5.8% Li<sub>2</sub>O and 0.60% Fe<sub>2</sub>O<sub>3</sub> at 79% r

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Figure 3: DMS circuit set-up at SGS Lakefield, Ontario, Canada

## About the CV Lithium Trend

The CV Lithium Trend is an emerging spodumene pegmatite district discovered by the Company in 2017 and spans mo

To date, six (6) distinct clusters of lithium pegmatite have been discovered across the Property - CV5 Pegmatite and as

## Qualified/Competent Person

The information in this news release that relates to exploration results for the Corvette Property is based on, and fairly r

Mr. Smith is Vice President of Exploration for [Patriot Battery Metals Inc.](#) (the "Company") and Nevada Lithium Resources Inc., Vice President of Exploration and Director for Ophir Gold Corp, and a Senior Geologist and Project Manager with Dahrouge Geological Consulting Ltd. Mr. Smith holds common shares and options in the Company.

Mr. Smith has sufficient experience, which is relevant to the style of mineralization, type of deposit under consideration,

About Patriot Battery Metals Inc.

[Patriot Battery Metals Inc.](#) is a mineral exploration company focused on the acquisition and development of mineral pro

The Company's flagship asset is the 100% owned Corvette Property, located proximal to the Trans-Taiga Road and po

The Company also holds 100% ownership of the Freeman Creek Gold Property in Idaho, USA which hosts two prospec

The Company's other assets include the Pontax Lithium-Gold Property, QC; and the Hidden Lake Lithium Property, NV

For further information, please contact us at [info@patriotbatterymetals.com](mailto:info@patriotbatterymetals.com) Tel: +1 (604) 279-8709, or visit [www.patriotbatterymetals.com](http://www.patriotbatterymetals.com)

This news release has been approved by the Board of Directors,

"BLAIR WAY"

Blair Way, President, CEO, & Director

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*This news release contains forward-looking statements and other statements that are not historical facts. Forward-looking information may prove to be incorrect. Events or circumstances may cause actual results to differ from those anticipated. This information is provided for informational purposes only and is not intended to constitute an offer or solicitation of securities. No securities regulatory authority or stock exchange has reviewed nor accepts responsibility for the adequacy or accuracy of this information. Preparation of any forward-looking information may prove to be incorrect. Events or circumstances may cause actual results to differ from those anticipated. This information is provided for informational purposes only and is not intended to constitute an offer or solicitation of securities. No securities regulatory authority or stock exchange has reviewed nor accepts responsibility for the adequacy or accuracy of this information.*

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Appendix 1 - JORC Code 2012 Table 1 information required by ASX Listing Rule 5.7.1

### Section 1 - Sampling Techniques and Data

Criteria	JORC Code explanation
Sampling techniques	<ul style="list-style-type: none"><li>● Nature and quality of sampling (eg cut channels, random ch</li><li>● Include reference to measures taken to ensure sample repre</li><li>● Aspects of the determination of mineralisation that are Mate</li><li>● In cases where 'industry standard' work has been done this</li></ul>
Drilling techniques	<ul style="list-style-type: none"><li>● Drill type (eg core, reverse circulation, open-hole hammer, r</li></ul>
Drill sample recovery	<ul style="list-style-type: none"><li>● Method of recording and assessing core and chip sample re</li><li>● Measures taken to maximise sample recovery and ensure re</li><li>● Whether a relationship exists between sample recovery and</li></ul>

*Logging*

- Whether core and chip samples have been geologically and
- Whether logging is qualitative or quantitative in nature. Core
- The total length and percentage of the relevant intersections

*Sub-sampling techniques and sample preparation*

- If core, whether cut or sawn and whether quarter, half or all
- If non-core, whether riffled, tube sampled, rotary split, etc and
- For all sample types, the nature, quality and appropriateness
- Quality control procedures adopted for all sub-sampling stages
- Measures taken to ensure that the sampling is representative
- Whether sample sizes are appropriate to the grain size of the

*Quality of assay data and laboratory tests*

- The nature, quality and appropriateness of the assaying and
- For geophysical tools, spectrometers, handheld XRF instruments
- Nature of quality control procedures adopted (eg standards,)

*Verification of sampling and assaying*

- The verification of significant intersections by either independent
- The use of twinned holes.
- Documentation of primary data, data entry procedures, data
- Discuss any adjustment to assay data.

*Location of data points*

- Accuracy and quality of surveys used to locate drill holes (collar
- Specification of the grid system used.
- Quality and adequacy of topographic control.

*Data spacing and distribution*

- Data spacing for reporting of Exploration Results.
- Whether the data spacing and distribution is sufficient to establish
- Whether sample compositing has been applied.

*Orientation of data in relation to geological structure*

- Whether the orientation of sampling achieves unbiased sampling
- If the relationship between the drilling orientation and the orientation

*Sample security*

- The measures taken to ensure sample security.

*Audits or reviews*

- The results of any audits or reviews of sampling techniques

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

**Corporate information**

*Mineral tenement and land tenure status*

- Type of tenement/property/interest and a brief description of the claims held in the James Bay Region of Quebec with third parties
- The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence
- The Company holds 100% interest in the Property subject to various royalty obligations depending on original acquisition
- The Property does not overlap any sensitive environmental areas or parks, or historical sites to the knowledge of the Company
- Claim expiry dates range from July 2023 to July 2025.

*Exploration done by other parties*

- A known mineral test prepared by other parties.

### Geology

- ~~The Property is geologically within the La Grande River Greenstone Belt, considered part of the larger La Grande River Group.~~
- The geologic setting is prospective for gold, silver, base metals, platinum group elements, and lithium over several kilometers.
- Exploration of the Property has outlined three primary mineral exploration trends crossing dominantly east-west and north-south.
- The lithium pegmatites at Corvette are LCT Pegmatites. Preliminary mineralogical studies of the CV5, CV6, and CV7 pegmatites are ongoing.

### Drill hole Information

- ~~When a summary of drill hole information is reported, the following information should be included:~~
  - easting and northing of the drill hole collar
  - elevation or RL (Reduced Level - elevation above sea level in metres) of the drill hole collar
  - dip and azimuth of the hole
  - down hole length and interception depth
  - hole length.
- If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not constitute a misstatement, the reasons for the exclusion should be stated.

### Data aggregation methods

- ~~When reporting Exploration Results, the following techniques should be used:~~
  - Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the aggregate intercept should be clearly stated.
  - The assumptions used for any reporting of metal equivalent values should be clearly stated.

### Relationship between mineralisation widths and intercept lengths

- ~~When reporting Exploration Results, the following information should be included:~~
  - Where 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 lengths only").

### Diagrams

- ~~When reporting Exploration Results, the following information should be included:~~
  - Appropriate diagrams illustrating the relationship between intercept lengths and mineralisation widths should be included for any significant intercepts.

### Balanced reporting

- ~~When reporting Exploration Results, the following information should be included:~~
  - Where the reporting of Exploration Results is not practicable, representative reporting of both low and high grade results should be included.

### Other substantive exploration data

- ~~When reporting Exploration Results, the following information should be included:~~
  - The Company should report on all exploration activities, including but not limited to geological, geophysical, geochemical, and metallurgical testing, and should report on the results of such testing.

### Further work

- ~~When reporting Exploration Results, the following information should be included:~~
  - The Company should report on all exploration activities, including but not limited to geological, geophysical, geochemical, and metallurgical testing, and should report on the results of such testing.
  - Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and the main mineral exploration trends.

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