

North American Niobium and Critical Minerals Corp. Completes Phase 1 Fall Prospecting Program

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Carbonatite and Pegmatite Targets Identified Across Québec Properties

- Completion of Fall 2025 Prospecting Program Across Seigneurie, Bardy, Blanchette and Sabot Properties
- Carbonatite Boulders and Pegmatite Zones Identified
- 262 Samples Submitted for Analysis

[North America Niobium and Critical Minerals Corp.](#) (CSE: NIOB) (FSE: IOR) (OTCQB: NIOMF) (“North American Niobium” or the “Company”) is pleased to announce the completion of its Phase 1 Fall 2025 prospecting, mapping, and channel sampling program across four (4) of its 100%-owned properties in Québec, including the Seigneurie, Bardy, Blanchette, and Sabot properties. Field work was conducted from October 13th to November 5th, 2025, with crews continuing to access additional outcrops as conditions permit.

The Company’s 2025 program aimed to verify and build upon historical prospecting results, including those previously reported for the Blanchette, Seigneurie, and Bardy showings. Field crews collected a total of 262 grab and channel samples, including 94.5 metres of channel sampling on the Seigneurie property. The Seigneurie property was recently extended to the southwest to include a historical REE-anomalous carbonatite subcrop identified by the Québec Ministry of Natural Resources and Forestry (“MRNF”) in 2015.

Work was completed by a five-person technical team consisting of three prospectors and two geologists from Grassroots Prospecting and Target Generation Inc. and McMillan Geosciences Inc.

Field Program Highlights

- Carbonatite boulders and subcrops discovered at Blanchette, spatially associated with an interpreted circular magnetic feature visible on the first vertical derivative regional airborne geophysical map.
- Numerous pegmatites with REE potential confirmed at several locations on the Seigneurie property.
- 262 grab and channel samples collected across all four properties; assays pending, which includes 94.5 metres of channel sampling completed on Seigneurie (average sample length 1.5 m) – Figure 1.
- Field observations identified a diverse suite of lithologies, including pegmatites, carbonatites, mafic intrusives, volcanics, metasedimentary units, and gneiss.

<https://portal.executivebusinessservices.com/i/eff0cc18-1704-45f4-60cd-08de325fba1e>
Figure 1: 94.5m of channel sampling was completed during the month of November 2025.

Program Summary

The Fall 2025 prospecting campaign focused on confirming prior anomalous zones, mapping new mineralized trends, and evaluating pegmatite-hosted rare earth element (“REE”) targets. Notably,

two carbonatite areas were identified: 1) the first on the Blanchette property, representing a newly discovered location not previously sampled, and 2) the second on the Seigneurie property, confirming an REE-anomalous carbonatite subcrop documented by MRNF but not classified as a mineral occurrence. Important geological observations include:

- Discovery of carbonatite boulders at Blanchette proximal to an interpreted circular magnetic feature interpreted as a prospective area for carbonatite.

- Extension of a prospective trend at Seigneurie, where the field team investigated and expanded upon a 2015 MRNF-reported REE-anomalous carbonatite subcrop (Figure 2).

- Identification of several pegmatite zones with REE potential on Seigneurie, consistent with the Company's focus on critical minerals such as Nb, Nd, Pr, Dy, Y, and other related elements.

<https://portal.executivebusinessservices.com/i/bee291c1-83dd-4b83-60ce-08de325fba1e>

Figure 2: Carbonatite sample, collected by field crew, under 365nm UV lamp. Two centimeter wide calcite minerals glowing in bright orange.

Sampling & Analytical Work

All grab and channel samples were submitted to ALS Laboratories in Lachine, Montréal. Analytical methods include:

- ME-MS71L for REE-bearing granitic pegmatite and carbonatite units

- PGM-23 and ME-MS61 for mafic and ultramafic units prospective for Ni-Cu-PGE mineralization

Assay results are pending and will be released once received, compiled, and reviewed by the Company's technical team.

"Our Fall 2025 Phase 1 program has significantly improved our understanding of the geological framework across our Québec properties. The identification of new carbonatite and pegmatite targets supports our view that these properties hold meaningful critical mineral potential," said Murray Nye, CEO of North American Niobium and Critical Minerals Corp. "We look forward to receiving the assay results and refining our exploration model as we advance toward the next phase of work."

ABOUT NORTH AMERICAN NIOBIUM AND CRITICAL MINERALS CORP.

North American Niobium and Critical Minerals Corp. is a North American mineral exploration company focused on the acquisition and development of precious, base, and critical mineral assets. Its portfolio includes the Silver Lake property in British Columbia's Omineca Mining Division and a recently acquired land package in Quebec's Grenville Province. The Quebec properties add exposure to rare earth elements (REE), niobium (Nb), and nickel-copper (Ni-Cu) occurrences, expanding the Company's footprint into critical minerals that are strategically important for energy and defense applications.

ON BEHALF OF THE BOARD OF DIRECTORS:

Murray Nye
Chief Executive Officer

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FORWARD LOOKING STATEMENTS

This news release contains "forward-looking statements" within the meaning of applicable Canadian securities legislation. All statements in this release, other than statements of historical fact, that address events, results, outcomes or developments that the Company expects, anticipates or intends to occur in the

future, or that otherwise reflect management's expectations or beliefs about future events, are forward-looking statements. Forward-looking statements are generally, but not always, identified by the use of words and phrases such as "expects," "plans," "anticipates," "believes," "intends," "estimates," "projects," "potential," "opportunity," "strategy," "target," "forecast" and similar expressions, or statements that events, conditions or results "will," "would," "may," "could," or "should" occur or be achieved.

Forward-looking statements in this release include, but are not limited to: (i) statements regarding the Properties and their mineral prospectivity; (ii) the Company's planned exploration, development and evaluation activities on the Properties; (iii) the anticipated benefits of the Acquisition, including the expansion of the Company's exploration portfolio, increased exposure to critical mineral targets, and the potential to enhance long-term shareholder value; and (iv) the potential for the Grenville Province to host significant rare earth element, niobium, nickel-copper or other critical mineral deposits. Such forward-looking statements are based on the Company's current plans, intentions, expectations and beliefs and are subject to certain assumptions, including, without limitation, assumptions that required regulatory approvals will be obtained in a timely manner, that financing will be available on reasonable terms, and that exploration results will continue to support the prospectivity of the Properties.

Although the Company believes the expectations expressed in such forward-looking statements are reasonable, such statements are not guarantees of future performance or outcomes and actual results may differ materially from those expressed or implied in the forward-looking statements. Factors that could cause actual results to differ materially from those anticipated include, but are not limited to: the timing and receipt of required regulatory approvals; changes in commodity prices and market conditions; the availability of capital and financing on acceptable terms; general economic, business and political conditions; risks inherent in mineral exploration and development, including operational risks, geological uncertainties, environmental risks and accidents; changes in government regulation or policy; and the speculative nature of mineral exploration and development. Additional information regarding risks and uncertainties faced by the Company is available in the Company's public disclosure record on SEDAR+ (www.sedarplus.ca).

Readers are cautioned that forward-looking statements are not guarantees of future performance, and undue reliance should not be placed on them. The forward-looking statements contained in this release are made as of the date hereof and are based on information currently available and management's beliefs, estimates, expectations and opinions at that time. Except as required by applicable securities laws, the Company undertakes no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Qualified Person

The scientific and technical information contained in this news release has been prepared in accordance with National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101"). Clyde McMillan, P.Geol., a consultant to the Company and a Qualified Person as defined under NI 43-101, has reviewed and approved the technical information contained herein.

The Canadian Securities Exchange does not accept responsibility for the adequacy or accuracy of this release and has neither approved nor disapproved the contents of this press release

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