

**CriticalElements**  
Lithium Corporation



**LITHIUM CHARGED**  
**HIGH PURITY**  
**SPODUMENE**  
**PROJECT**

**INVESTOR PRESENTATION**

**September 15<sup>th</sup>, 2025**

**TSX.V: CRE**



**Forward-Looking Information:** This presentation contains "forward-looking information" within the meaning of Canadian securities legislation. All information contained herein that is not clearly historical in nature may constitute forward-looking information. Forward-looking information includes, without limitation, statements regarding the results of the Company's Feasibility Study results press release dated August 29, 2023 including statements about the projected IRR, NPV, payback period and future capital and operating costs, the availability and access to hydroelectric power, projected annual rate of lithium and tantalum production, the estimation of mineral resources, the market and future price of lithium and tantalum, permitting and the ability to finance the project, statements relating to the Phase II engineering study, the results of such study and lithium hydroxide plant feed, capacity and production. Generally, such forward-looking information can be identified by the use of forward-looking terminology such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved". Forward-looking information is based on certain factors and assumptions management believes to be reasonable at the time such statements are made, including but not limited to, continued exploration activities, lithium, tantalum and other commodity prices, the estimation of initial and sustaining capital requirements, the estimation of labour and operating costs, the estimation of mineral resources, the assumption with respect to currency fluctuations, the timing and amount of future exploration and development expenditures, receipt of required regulatory approvals, the availability of necessary financing for the project, the completion of the environment assessment process, permitting and such other assumptions and factors as set out herein. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking information, including but not limited to: volatile stock price; risks related to changes in lithium and tantalum prices; sources and cost of power facilities; the estimation of initial and sustaining capital requirements; the estimation of labour and operating costs; the general global markets and economic conditions; the risk associated with exploration, development and operations of mineral deposits; the estimation of mineral resources; the risks associated with uninsurable risks arising during the course of exploration, development and production; risks associated with currency fluctuations; environmental risks; competition faced in securing experienced personnel; access to adequate infrastructure to support mining, processing, development and exploration activities; the risks associated with changes in the mining regulatory regime governing the Company; completion of the environmental assessment process; risks related to regulatory and permitting delays; risks related to potential conflicts of interest; the reliance on key personnel; the risks related to the Phase II engineering study and additional pilot studies not producing the results anticipated by the Company; financing, capitalization and liquidity risks including the risk that the financing necessary to fund continued exploration and development activities at the Rose Lithium-Tantalum Project may not be available on satisfactory terms, or at all; the risk of potential dilution through the issue of common shares; the risk of litigation. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in the forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such forward-looking information. Accordingly, readers should not place undue reliance on forward-looking information. Forward-looking information is made as of the date of this presentation, and the Company does not undertake to update such forward-looking information except in accordance with applicable securities laws.

**Currency Presentation:** Unless indicated otherwise, all dollar figures are in Canadian dollars.

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**Quality Control and Assurance:** The scientific and technical content of this presentation was reviewed and approved by the Company's *Vice-President Engineering, Construction and Operations*, Yves Perron, Eng., MBA who is a Qualified Person within the meaning of National Instrument 43-101.

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**CAUTIONARY NOTE TO UNITED STATES INVESTORS:** Disclosure regarding Mineral Reserve and Mineral Resource estimates included in this presentation were prepared in accordance with Regulation 43-101 respecting Standards of Disclosure for Mineral Projects (“NI 43-101”). This presentation use the terms “Pre-Feasibility Study,” “Feasibility Study,” “Mineral Resource,” “Inferred Mineral Resource,” “Indicated Mineral Resource,” “Measured Mineral Resource,” “Mineral Reserve,” “Probable Mineral Reserve,” and “Proven Mineral Reserve” in connection with the presentation of resources, as each of these terms is defined in accordance with the CIM Definition Standards on Mineral Resources and Reserves adopted by the Canadian Institute of Mining, Metallurgy and Petroleum (“CIM”) Council (the “CIM Definition Standards”), as required by NI 43-101. Unless otherwise indicated, all reserve and resource estimates contained in this presentation have been prepared in accordance with the CIM Definition Standards, as required by NI 43-101. NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. NI 43-101 differs significantly from the disclosure requirements of the U.S. Securities and Exchange Commission (the “SEC”) generally applicable to U.S. companies. For example, the terms “mineral reserve”, “proven mineral reserve”, “probable mineral reserve”, “mineral resource”, “measured mineral resource”, “indicated mineral resource” and “inferred mineral resource” are defined in NI 43-101. These definitions differ from the definitions in the disclosure requirements promulgated by the SEC. Accordingly, information contained in this presentation will not be comparable to similar information made public by U.S. companies reporting pursuant to SEC disclosure requirements.

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## Our Vision



### Our Vision

- It is Critical Elements Lithium Corporation's vision to become a large, responsible supplier of lithium to the flourishing electric vehicle and energy storage systems industries



### The Opportunity

- Our first project, Rose, features high purity spodumene



### Location

- Quebec is strategically well-positioned regarding the critical transitioning energy and e-mobility markets in Europe and the United States and boasts excellent infrastructure including low cost and low carbon electricity



### Community

- Our cooperative relationship with the Cree Nation of Eastmain, the Grand Council of the Crees (Eeyou Istchee), and the Cree Nation Government has been formalized through the Pikhuutaa Agreement signed in July 2019

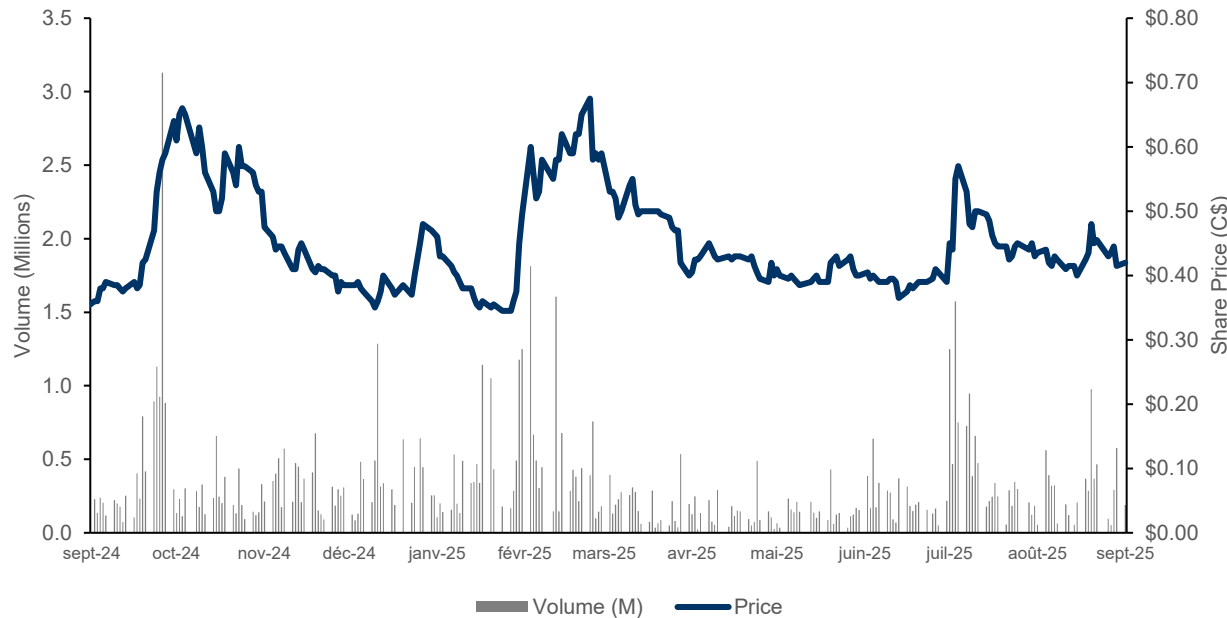


### Government Approvals

- Provincial Certificate of Authorization approval received November 1, 2022, Federal approval received August 10, 2021, advancing detailed engineering and financing for the construction of the Rose mine and concentrator, and the engineering studies for a chemical plant for conversion of spodumene concentrate to high quality lithium hydroxide for use in lithium-ion batteries

## Critical Elements Lithium's Capital Structure

Basic Shares Outstanding	217.8M
Options	3.2M (C\$0.24 - C\$2.29)
Fully-Diluted Shares Outstanding	221.0M
Share Price	C\$0.40
Basic Market Capitalization	C\$87.1M
Management / Directors Ownership	4.54%



Exchange: Trading Symbol

**TSX-V: CRE**

**Frankfurt: F12**

**OTCQX: CRECF**

Research Coverage



## Permitted, Construction-Ready North American Source of Lithium and Tantalum

1

### High Purity Spodumene Hard Rock Project

- Lithium hydroxide demand is expected to dominate the lithium market
- Rose is one of the highest purity hard rock spodumene deposits with low iron and mica content.

2

### Government & First Nations Support

- Rose, the Company's flagship feasibility-stage lithium spodumene project, is located in Québec – a top-tier, strategically located, and supportive mining jurisdiction
- Good relations with the Québec government, First Nations and local communities

3

### Management Team with Relevant Experience

- Developers/operators experienced in de-risking large-scale projects
- Key members include the former Rockwood Lithium CEO and CFO, which was sold to Albemarle for US\$6.2B in January 2015

4

### Availability for Strategic Partners

- End users in the EV sector are actively seeking sustainable lithium hydroxide supply; Quebec's grid is low carbon, 93% hydroelectric
- Rose is potentially the only new, near-term source of technical grade lithium spodumene
- Evaluating continued interest from blue-chip strategic partners

5

### Re-rating Opportunity with Project Advancement

- Mine and spodumene concentrate plant with a robust after-tax NPV8% of US\$2.2B, IRR of 65.7% and payback period of 1.8 years (2023 Feasibility Study)
- Meaningful re-rating opportunity based on current market cap relative to Rose's Feasibility Study NPV
- Fundamental upside potential with new discoveries and large exploration mining claim landscape

# Selected Key Milestones

- **US\$115M/C\$150M in Support Letter from Leading Financial Institution (February 10, 2025)** – receipt of a support letter from a leading Canadian financial institution stating its interest in providing long-term debt financing up to US\$115/C\$150M for Rose’s development.
- **C\$20M in Federal Funding (February 6, 2025)** – conditionally approved for up to C\$20M under the Critical Minerals Infrastructure Fund to relocate 4.2km of power transmission line infrastructure and build a new electrical sub-station to supply Rose.
- **Receipt of Land Use Lease (October 16, 2024)** – granted the Industrial occupancy lease for its worker camp.
- **Amended Certificate of Authorization (“CA”) (August 14, 2024)** – amended CA to include the addition of: (i) the construction and development of the permanent workers’ camp with a capacity of 250 people, (ii) the temporary provision of an additional 250 people at the camp during the construction phase, and (iii) the use of two (2) borrow Pit; enables Rose to submit its Construction permit applications for the Early Earth Works and the Workers’ Camp.
- **Granted Three Industrial Occupancy and Tailings Management Facility Leases (February 20, 2024)** – the *Ministère des Ressources naturelles et des Forêts* granted three industrial occupancy leases (storage and mining infrastructure) and tailings management facility leases essential for the development of Rose.
- **Mining License (September 18, 2023)** – entered into a mining lease with the Québec Minister of Natural Resources and Forests for the Rose project. The mining lease is granted under the Québec Mining Act and gives the holder the right to mine mineral substances for the Rose Lithium-Tantalum project. The mining lease is granted for a period of 20 years.
- **Exploration Discoveries Expand Known Pegmatite Swarm (September 12, 2023)** – the restart of exploration work on Rose has successfully discovered several new spodumene-bearing pegmatite outcrops and defined drill targets for a significant fall and winter drill program.
- **New Positive Feasibility Study (August 29, 2023)** – updated economics of the Rose Project with an after-tax NPV<sub>8%</sub> of US\$2.2B and IRR of 65.7% with average price assumptions of US\$4,699 per tonne technical grade lithium concentrate, US\$2,162 per tonne chemical grade lithium concentrate, and US\$150 per kg tantalum pentoxide (Ta<sub>2</sub>O<sub>5</sub>).
- **Powerline Connection and Relocation Project Approval (February 28, 2023)** – the Québec Minister of the Environment, the Fight against Climate Change, Wildlife and Parks authorized Hydro-Québec’s connection and powerline relocation project.
- **Rehabilitation and Restoration Plan (May 13, 2022)** – the approval by the Québec Minister of Natural Resources and Forests of the rehabilitation and restoration plan concerning the Rose Lithium-Tantalum Project.
- **Provincial Certificate of Authorization (November 2, 2022)** – received the Certificate of Authorization pursuant to section 164 of Quebec’s Environment Quality Act for the Rose Lithium-Tantalum Project from the Quebec Minister of the Environment, the Fight against Climate Change, Wildlife and Parks.
- **Federal Approval of Environmental Impact Assessment (August 11, 2021)** – favorable decision from the Minister of Environment and Climate Change in respect of the proposed Rose Lithium-Tantalum Mining Project.
- **Impact and Benefits Agreements (July 8, 2019)** – the Pikhuutaa Agreement, an impact and benefits agreement for the development and operation of the Rose Lithium-Tantalum Project, signed with the Cree Nation of Eastmain, the Grand Council of the Crees (Eeyou Istchee) and the Cree Nation Government.

## *Proven Track Record in Successfully Executing Value-added Growth Opportunities*

Former Rockwood Lithium CEO and CFO possess strong lithium development and operational knowledge

- **Steffen Haber, President**

- Former CEO and President of Rockwood Lithium
- Instrumental in the sale of Rockwood to Albemarle for US\$6.2B in January 2015

- **Marcus Brune, Director and VP, Finance**

- Previously served as CFO of Rockwood Lithium from 2011 until its acquisition
- Worked in different executive positions in corporate finance and M&A for Rockwood Holdings and its predecessor companies since 2004

**Seasoned developers and mine operators with experience in de-risking large-scale projects from the point of discovery to production**

- **Jean-Sébastien Lavallée, CEO**

- Over 25 years of experience in mining exploration
- Has served as the CEO of Critical Elements Lithium since 2009

- **Yves Perron, VP Engineering of Construction and Operations**

- Over 25 years of experience in project management in the industrial sector within major international firms
- Former VP Engineering and Construction for Stornoway Diamond, VP Engineering and Construction for Mason Graphite, VP Engineering and Construction for Loop Industries

- **Sébastien Perreault, Senior Director of mining site operations**

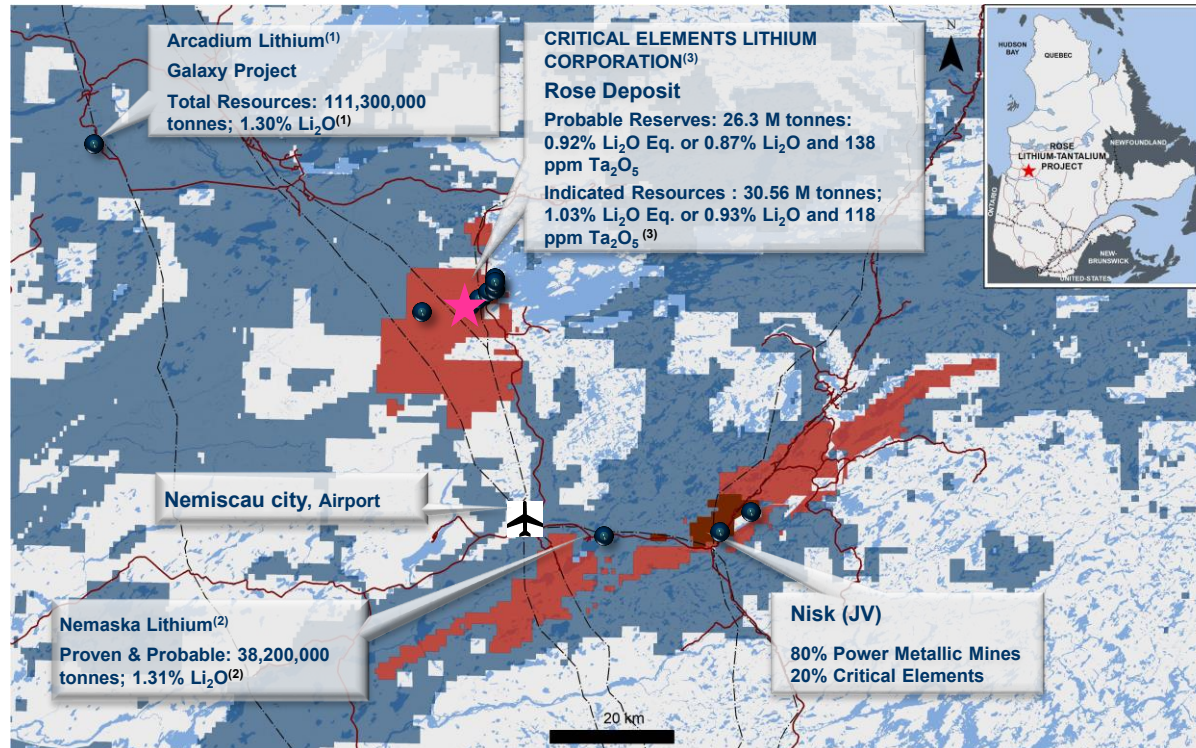
- Over 25 years of experience in open-pit mining operations and mining project management both in Quebec and abroad

- **Nancy Duquet-Harvey, Senior Director of Sustainable Development and Environment**

- Over 25 years of experience in environmental studies, environmental monitoring and working closely with local aboriginal groups. She has contributed to the successful implementation of numerous environmental programs at several mining companies, including Agnico Eagle, Alamos Gold and Kirkland Lake Gold

## A Dominant Land Package with Exploration Upside

- Located in a premier mining jurisdiction in Québec, Canada with excellent access to infrastructure including roads, airport and power lines on site tapping into Québec's low carbon (93% hydroelectricity), low-cost grid
- Exploration potential with aim to expand resource at Rose, test priority targets and delineate an initial resource at Lemare
- 20% interest in Nisk Property, with major new discovery from Power Metallic Inc. (TSX-V: PNPV)



Sources:

(1) As per Arcadium Lithium's Annual Report on Form 10-K as of December 31, 2023; inclusive of reserves.

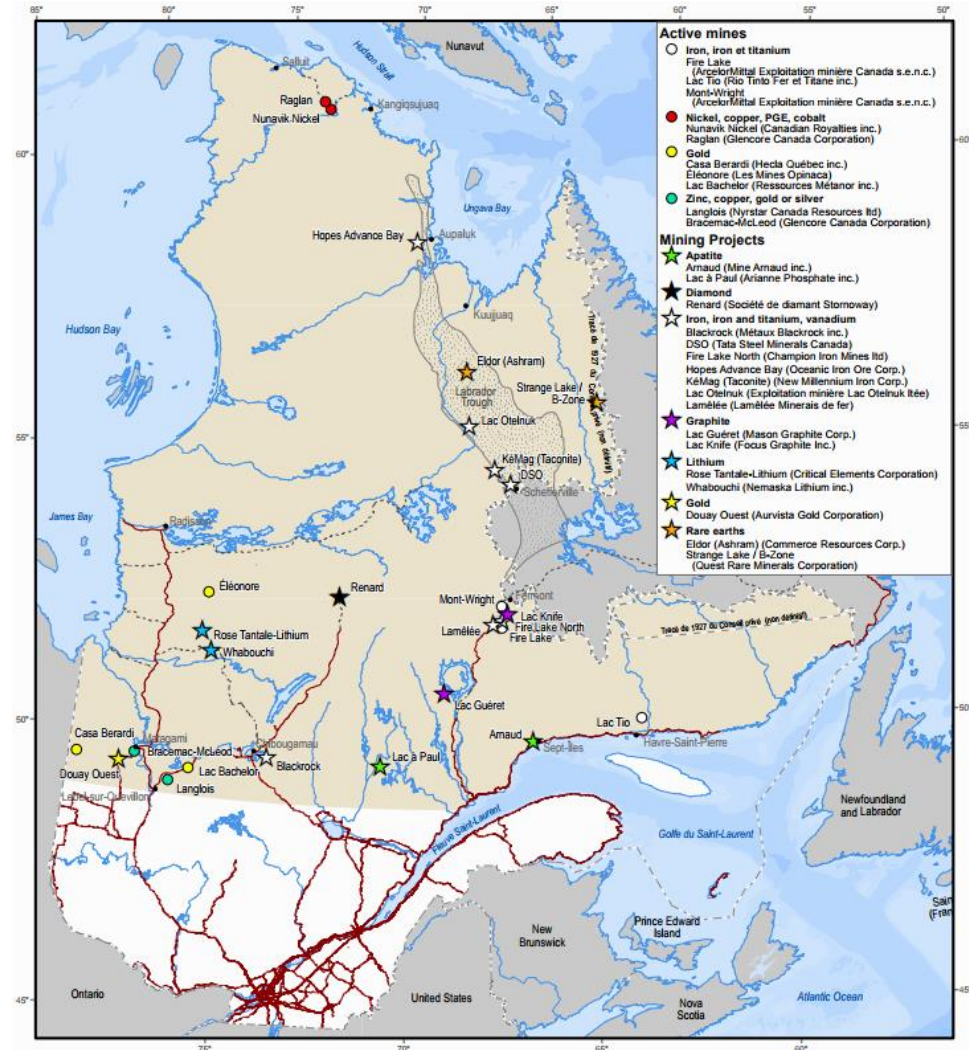
(2) Whabouchi Mine Pre-Feasibility Study dated November 14, 2023 (amended).

(3) Rose Lithium-Tantalum Project Feasibility Study dated October 11, 2023.

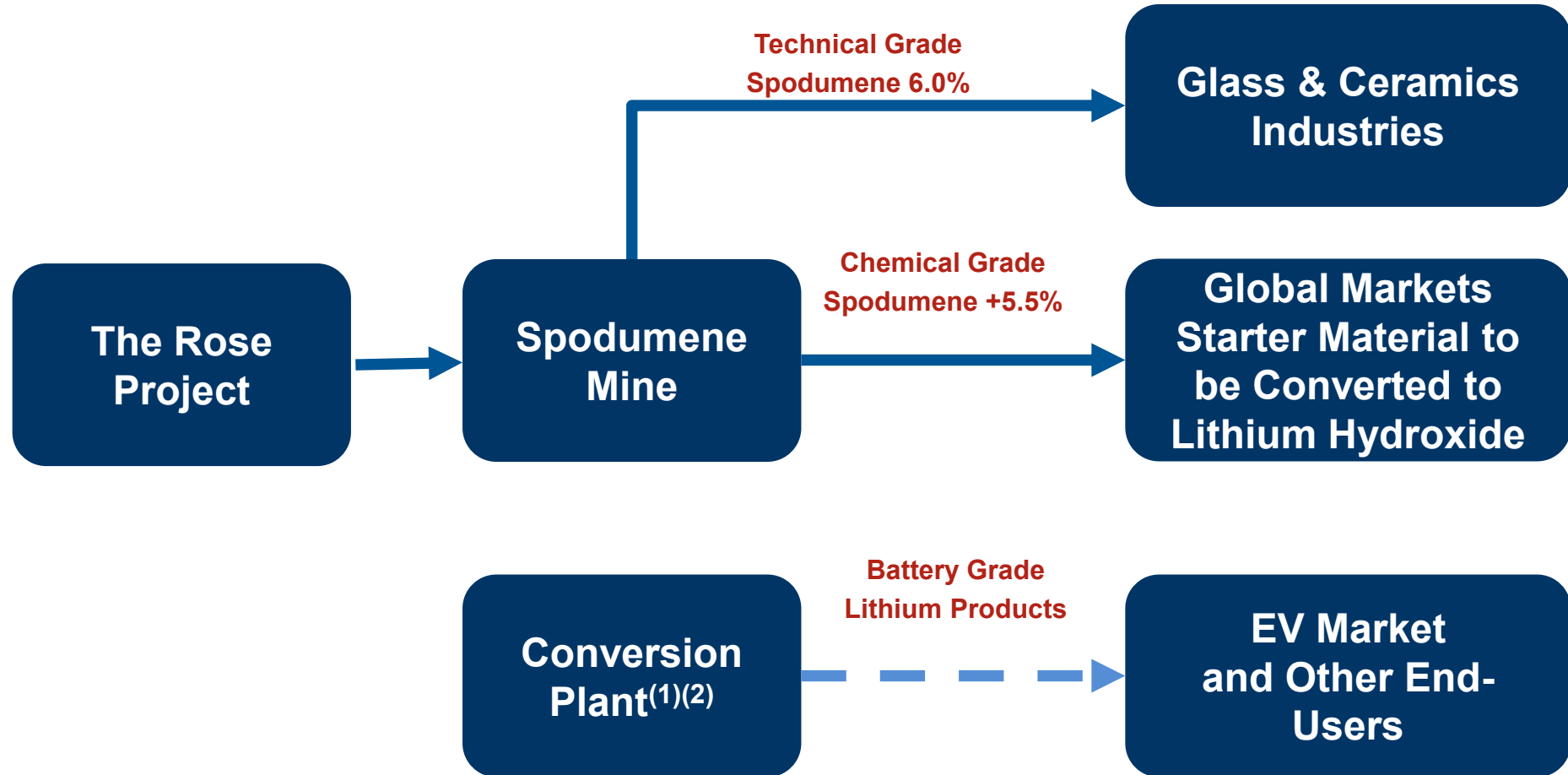
## Mining in Québec



- Quebec is consistently ranked in the top quartile by the Fraser Institute for most attractive jurisdictions for mining investment
- Québec accounts for 20% of Canada's total mining output and is a dominant producer of iron concentrate, zinc and gold
- Strong infrastructure in place (road, powerline, railway) and access to 100% green hydroelectric energy
- Environmental Impact Assessment demonstrates low impact as confirmed by both the federal and provincial government environmental agencies
- The Pikhuutaau Agreement, signed July 2019, formalized Critical Elements' relationship with the Cree Nation of Eastmain, the Grand Council of the Crees (Eeyou Istchee) and the Cree Nation Government

## Map of Québec and Plan du Nord



## Phased Approach to Supplying the EV Market



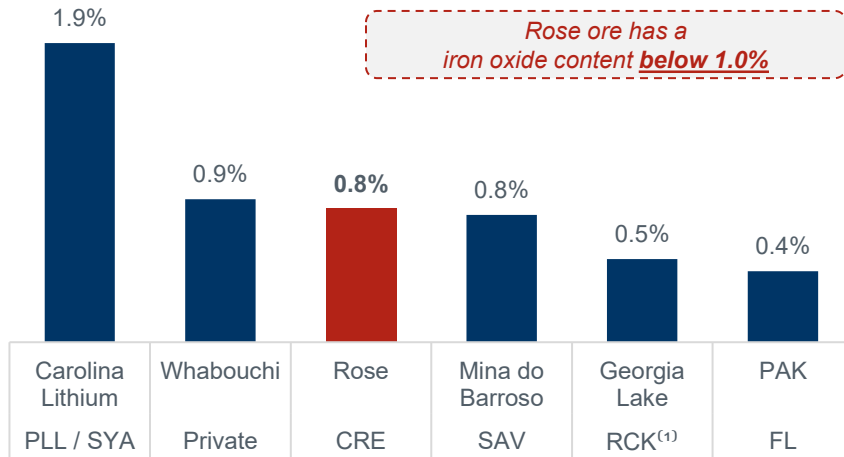
-  Planned progression of Rose Project development
-  Optional opportunity, dependent on market conditions

(1) On August 11, 2022, the Corporation announced that it had complete an engineering study for a chemical plant to produce high quality lithium hydroxide monohydrate for the electric vehicle and energy storage system battery industries. The study was prepared by Metso Outotec and WSP in Canada (WSP).

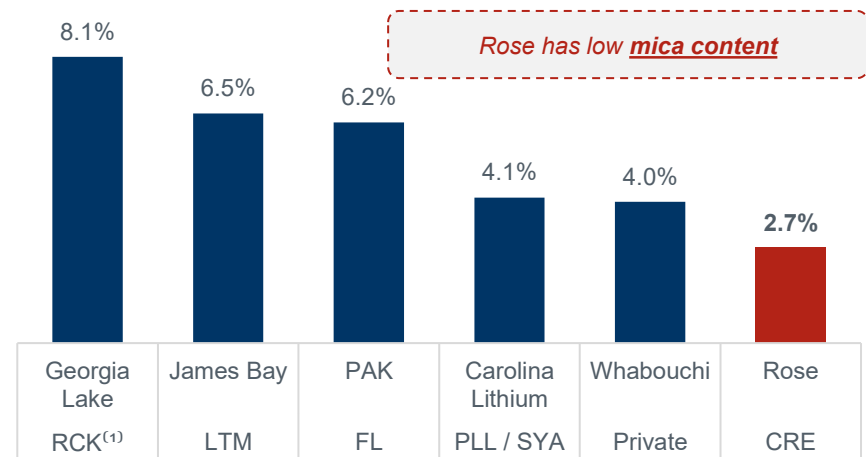
(2) The Company is not in a position to confirm as of the date hereof if the hydroxide chemical plant will ever be implemented or that it will form part of the Rose Lithium-Tantalum project.

## The Rose Project is Notable for its Low Iron Oxide and Mica Contents

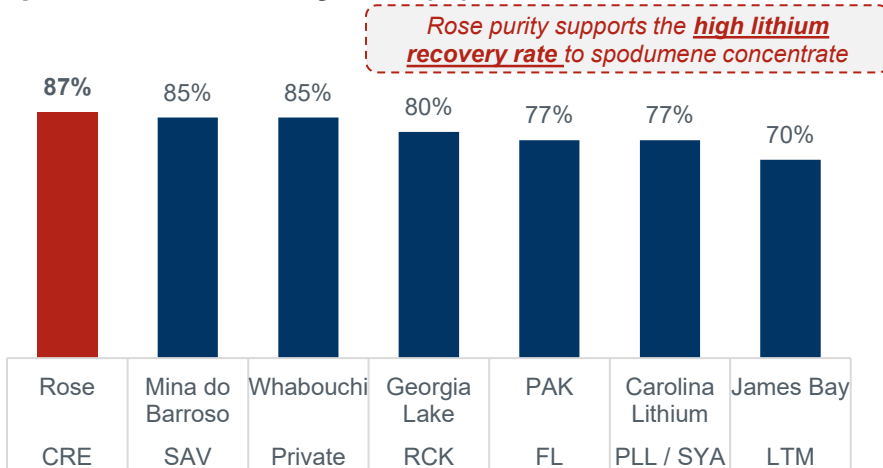
### Iron Oxide Content (%) – Ore



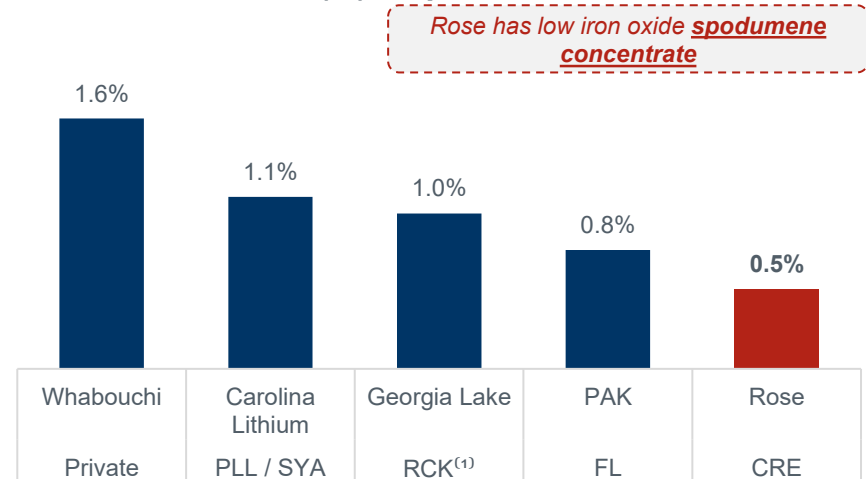
### Mica Content (%) – Ore



### Spodumene Recovery Rate (%)



### Iron Oxide Content (%) – Spodumene Concentrate



Source: Publicly Disclosed Technical Reports.

(1) Iron oxide and mica content from 2011 and 2020 test work, respectively, as disclosed in technical report.

## Mine and Concentrator 2023 Feasibility Study Results<sup>(1)(2)(3)</sup>

### Financial Highlights

### OPEX Details

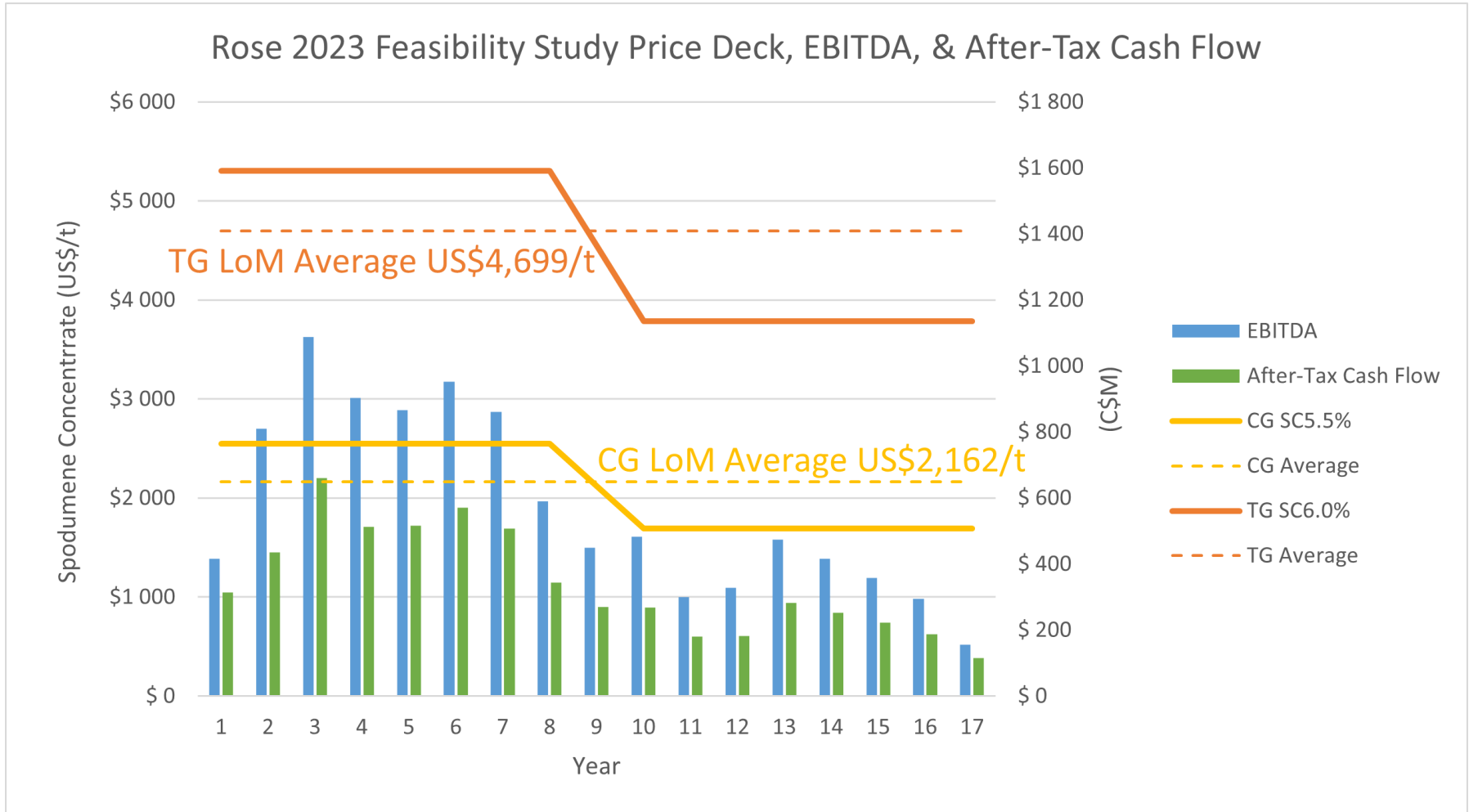
<p><b>17 Year</b> Project Life</p>	<p><b>US\$461M</b> Average Annual EBITDA</p>	<p><b>US\$617 / C\$801</b> Operating Cost (\$/t Li<sub>2</sub>O Conc.)</p>
<p><b>US\$2.2B</b> After-Tax NPV<sub>8%</sub></p>	<p><b>65.7%</b> After-Tax IRR</p>	<p><b>US\$652 / C\$847</b> Total Operating Cost (\$/t Li<sub>2</sub>O Conc.) (Incl. SG&amp;A, Royalties)</p>
<p><b>1.8 Year</b> After-Tax Payback Period</p>	<p><b>US\$471M</b> Initial CAPEX</p>	<p><b>US\$587 / C\$762</b> Total Operating Cost (\$/t Li<sub>2</sub>O Conc.) (Net Tantalite Credit)</p>

Source: Critical Elements Lithium Corporation: Rose Lithium-Tantalum Project Feasibility Study dated October 11, 2023.

- (1) Commodity prices (FOB Port Trois-Rivieres): Technical grade spodumene 6.0% of US\$4,699/t Conc.; chemical grade spodumene 5.5% of US\$2,162/t conc.; tantalum concentrate 20.0% of US\$150/kg contained;
- (2) Operating cost includes mining, processing, general & administrative, and transportation costs.
- (3) Feasibility study assumes exchange rate of US\$0.77/C\$.1.00.

# Rose Project Feasibility Metrics

## Conservative Price Deck, Robust EBITDA and After-Tax Cash Flow



Source: Critical Elements Lithium Corporation: Rose Lithium-Tantalum Project Feasibility Study dated October 11, 2023..

## Mine and Concentrator 2023 Feasibility Study Results

### LOM Average Annual Production Volumes

**Technical Grade  
Spodumene 6.16%**

46,059 t

**Chemical Grade  
Spodumene 5.56%**

157,706 t

**Tantalum Concentrate  
20.0%**

580 t

### LOM Average Recoveries

**Technical Grade  
Spodumene 6.16%**

85%

**Chemical Grade  
Spodumene 5.56%**

87%

**Tantalum Concentrate  
20.0%**

40%

0.87% Li<sub>2</sub>O  
138 ppm Ta<sub>2</sub>O<sub>5</sub>  
Average Feed Grade

4,600 t/d (1.6 M t/y)  
Mill Throughput

### Pilot Plant & Metallurgical Results:

- 50 tonne pilot program confirmed feasibility recovery rates and concentrate grade with 6.41% Li<sub>2</sub>O for Rose, and 6.56% Li<sub>2</sub>O for Rose South
- Variability testing from 0.50% to 1.60% Li<sub>2</sub>O through the deposit to test recovery consistency
- Tantalum recoveries average 69.1% in pilot testing

## CAPEX Details<sup>(1)</sup> – Cost Breakdown: Rose Lithium-Tantalum Project

	Initial Capital (C\$M)	Sustaining Capital (C\$M)	Initial Capital (US\$M)	Sustaining Capital (US\$M)
<b>Direct Capital</b>	<b>365.4</b>	<b>254.0</b>	<b>281.4</b>	<b>195.6</b>
<i>Mine Open Pit</i>	7.6	207.5	5.8	159.8
<i>Stockpiles</i>	7.0	19.2	5.4	14.8
<i>Infrastructure</i>	108.9	14.2	83.8	10.9
<i>Process Plant</i>	166.9	10.4	128.4	8.0
<i>Auxiliary Buildings &amp; Equipment</i>	75.2	2.7	57.9	2.1
<b>Indirect Capital Estimate</b>	<b>189.1</b>	<b>0.5</b>	<b>145.6</b>	<b>0.4</b>
<i>Owner's Costs</i>	77.7	-	59.9	-
<i>Indirect Costs</i>	111.4	0.5	85.8	0.4
<b>Contingency</b>	<b>55.5</b>	<b>25.4</b>	<b>42.7</b>	<b>19.6</b>
<b>Mine Rehabilitation (Incl. Contingency)</b>	<b>-</b>	<b>21.7</b>	<b>-</b>	<b>16.7</b>
<b>Mine Rehabilitation Bonds &amp; Costs</b>	<b>1.2</b>	<b>7.2</b>	<b>0.9</b>	<b>5.6</b>
<b>Total Capital Estimate</b>	<b>611.2</b>	<b>308.9</b>	<b>470.6</b>	<b>237.8</b>

Source: Critical Elements Lithium Corporation: Rose Lithium-Tantalum Project Feasibility Study dated October 11, 2023..

(1) Dollar figures in Canadian dollars unless otherwise stated; feasibility study assumes exchange rate of US\$0.77/C\$1.00.

# The Rose Project: Mine & Concentrator (Cont'd)

## OPEX Details<sup>(1)</sup>

### Operating costs per tonne processed

Mining (\$4.23 per tonne)

Processing

G&A

Transportation (FOB Port)

**C\$105.59**

\$35.13

\$27.00

\$20.70

\$22.76

### Operating costs per tonne of concentrate

Mining

Processing

General & Administration

Transportation

**Total Operating Costs**

SG&A

Royalties

**Total Operating Costs (w. SG&A & Royalties)**

Less Tantalite Credit

**Total Operating Costs (after tantalite credit)**

**C\$/t Li<sub>2</sub>O  
Concentrate**

**801**

266

205

157

173

**801**

10

37

**847**

85

**762**

**US\$/t Li<sub>2</sub>O  
Concentrate**

**617**

205

158

121

133

**617**

8

28

**652**

66

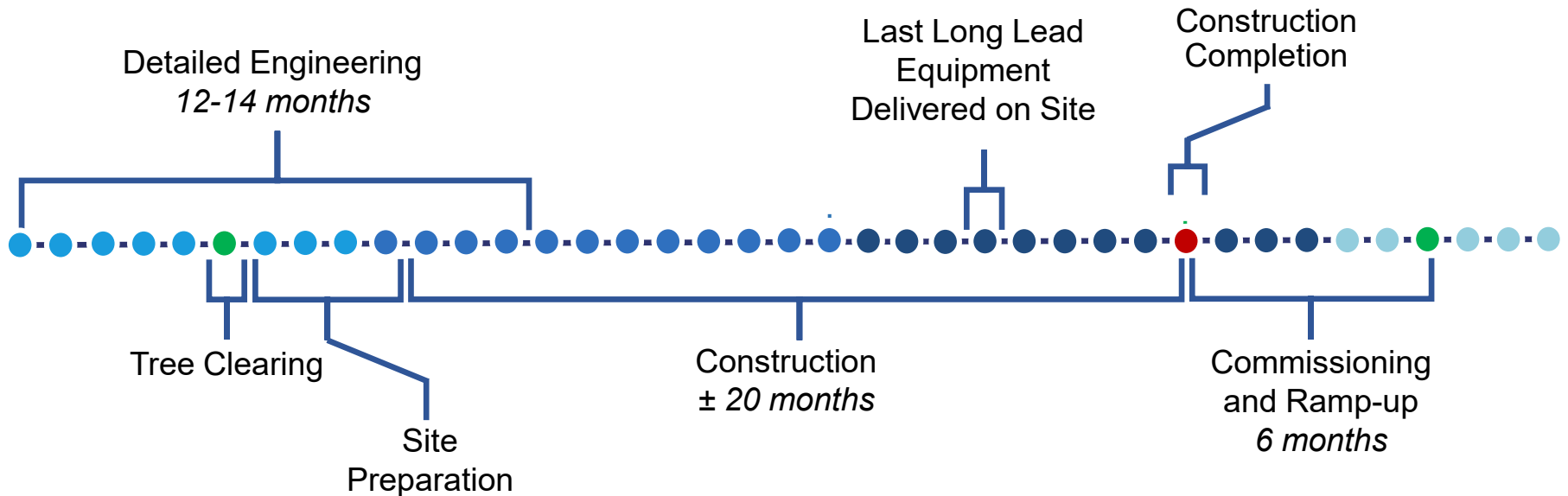
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## *Gaining Project Momentum to Drive Shareholder Value*

- Experienced Operational Team**
  - Expanded operational team with talented members that will advance Rose through construction
- Environmental Impact Study Filing**
  - Submitted the Rose EIS in August 2017, which was approved by the Federal Minister on August 2021
- Feasibility Study**
  - Positive feasibility study results in August 2023 with an after-tax 8% NPV of US2.2B and an IRR of 65.7%
- Lithium Carbonate & Hydroxide Pilot Plants<sup>(1)(2)</sup>**
  - Successfully completed lithium carbonate pilot plant in May 2017 and lithium hydroxide pilot plant in October 2018
- Building Good Relationships with First Nations**
  - Signed an Impact and Benefit Agreement with the Cree Nation of Eastmain and Cree Nation Government in July 2019
- Grant of occupancy Lease**
  - Industrial occupancy leases (storage and mining infrastructure), tailings management facility and worker's camp leases
- Approval of Rehabilitation and Restoration Plan for Rose**
  - Received from Québec Minister of Energy and Natural Resources – a prerequisite to the granting of the mining lease
- Completion of a positive engineering study for Lithium Hydroxide Monohydrate Plant(1)(2)**
  - Critical Elements aims to maintain it's flexibility until strategic partner is in place
- Rose Quebec Certificate of Authorization Received**
  - Certificate of Authorization approval received from Provincial Minister of Environment of Quebec on November 1, 2022
- Evaluating Potential Strategic Partners**
  - Continues to evaluate ongoing interest from global strategic partners that seek to accelerate Rose into production
- Final Investment and Construction Decision**
  - Critical Elements Lithium is aiming to achieve first production of spodumene at Rose within 2 years after FID

# Illustrative Timeline to Production<sup>(1)</sup>

## Project Schedule, Clear Path to Construction and Commissioning



<sup>(1)</sup>Completion of the activities on the timeline herein are estimates made by management based upon their current assumptions. This page contains "forward-looking information" and readers are referred to the "Disclosure" statement in this Presentation. Risks include, but are not limited to, receipt of necessary permits, successful results from earlier activities, the availability of the necessary financing, etc.

## *Targeting Strategic Partnerships and Low-Cost Financing Packages*

- With the Rose Certificate of Authorization now in place, the Company's near-term focus is on ordering long-lead items and securing financing with first production targeted 2 years after FID
- Critical Elements Lithium is contemplating various project capex funding solutions for the development and construction of Rose
- The funding solutions being considered by the Company include:

Strategic  
Partnership

Offtake

Joint  
Venture

Debt

Equity

- Critical Elements Lithium continues to work closely with its financial advisor, Cantor Fitzgerald, to evaluate ongoing interest from potential capital providers and strategic partners

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**EXPLORATION**

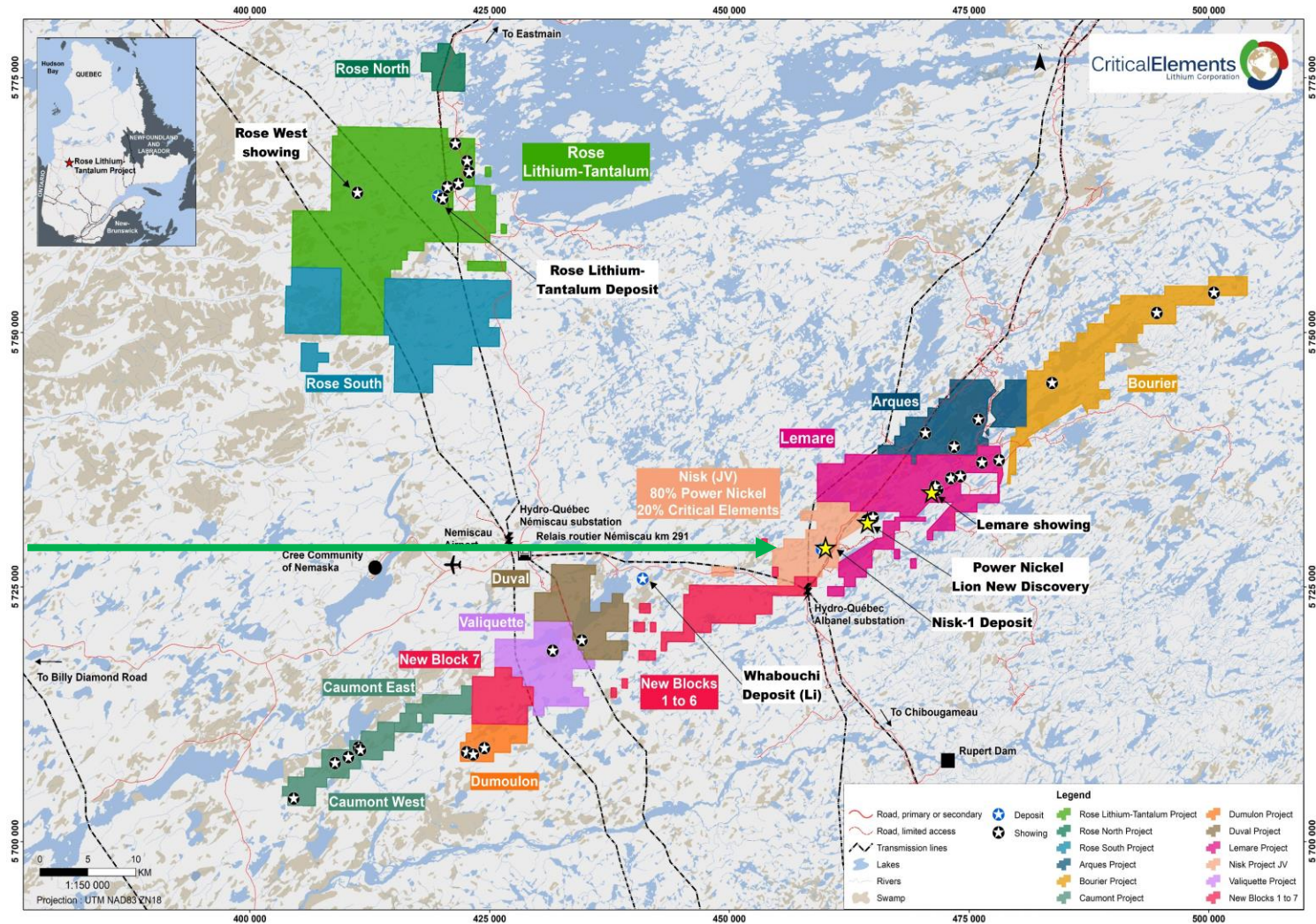
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- Management believes that the Rose Project and its exploration package have the potential to materially increase the company's existing 30M tonnes of indicated resources and 2M tonnes of inferred resources
- It is important to note that the Rose project mineral resource estimate is based largely on drilling that concluded in 2016 as management focused on delivering technical studies and advancing permitting at that time
- Since the restart of exploration work on the Rose Project, field crews have successfully discovered several new spodumene-bearing pegmatite outcrops
- To date, four spodumene-bearing pegmatite outcrops have been identified in the New Discovery Area
- At the Lemare property, sample results confirmed the summer 2022 discovery of the extension of the LCT pegmatite trend marked by a sample grading 0.38%  $\text{Li}_2\text{O}$ . Recent high-grade results include up to 2.44%  $\text{Li}_2\text{O}$  and 1.60% within an in-situ pegmatite outcrop. This highlights the potential for future drilling to extend the LCT pegmatite trend to over 5km on the Lemare property
- The Duval property hosts several lithium, cesium, and tantalum anomalies. Individual results include 2.22%  $\text{Li}_2\text{O}$  1.54%  $\text{Li}_2\text{O}$  and 0.54%  $\text{Li}_2\text{O}$  in an angular pegmatite boulder field
- Drilling results at Rose West demonstrated the continuity of a mineralized pegmatite body thus far over 450m strike, 370m down dip and to a vertical depth of 140m. In the west, the body is comprised of multiple near surface mineralized pegmatites that range up to an apparent thickness of **12.4m** individually. These bodies appear to coalesce into a more substantial spodumene-bearing pegmatite in the east with an apparent width of **up to 40.4m**

# Extensive Portfolio of Targets

## Nemaska Belt Portfolio – Location Map with Selected Highlights



20% interest in Nisk:

- Major new discovery from Power Metallic Mines Inc. (TSX-V: PNP)

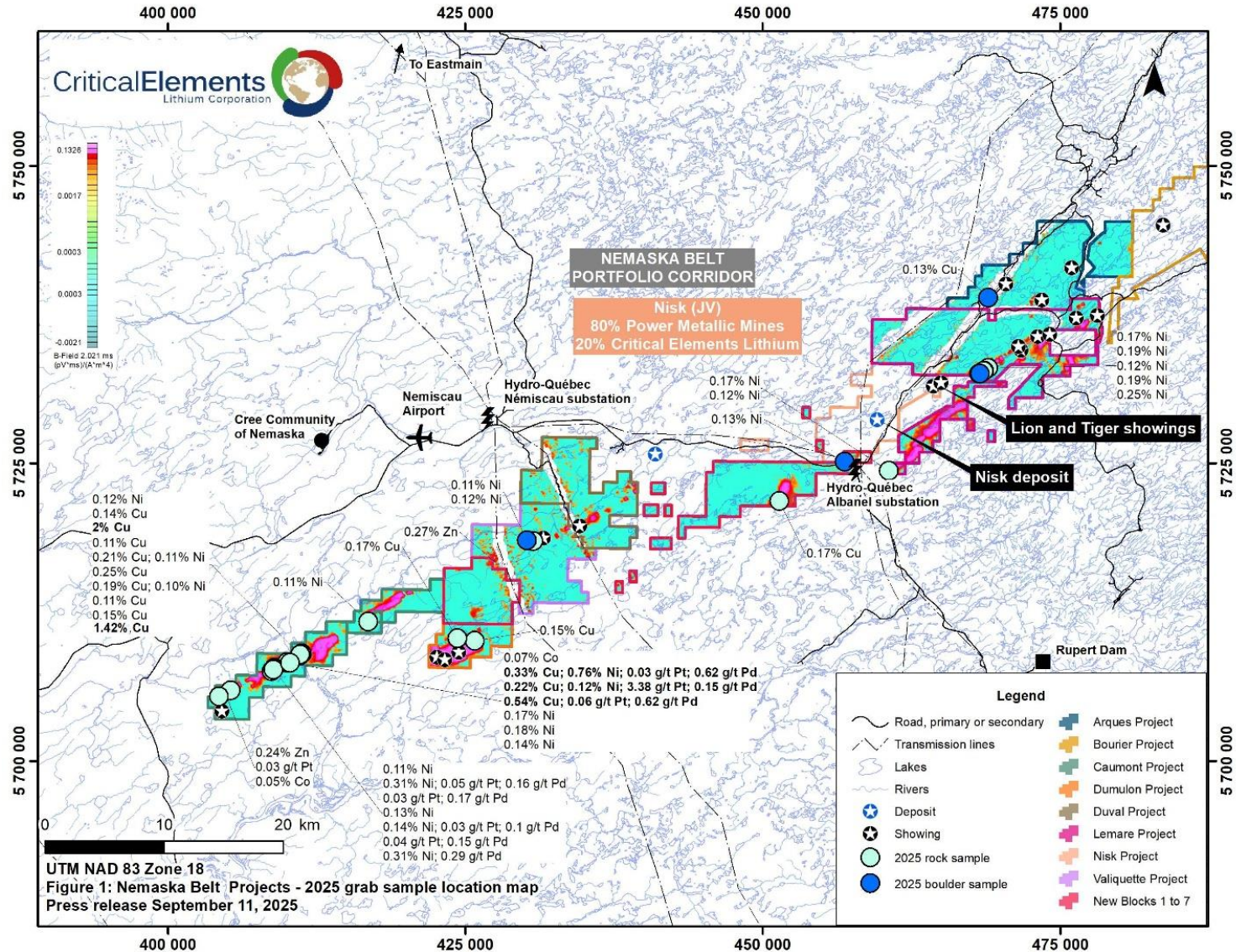
# Nemaska Belts Properties Ni-Cu-Co-PGE and Li Potential

## Nickel-Copper-Cobalt-PGE Potential on the Nemaska Belt Properties

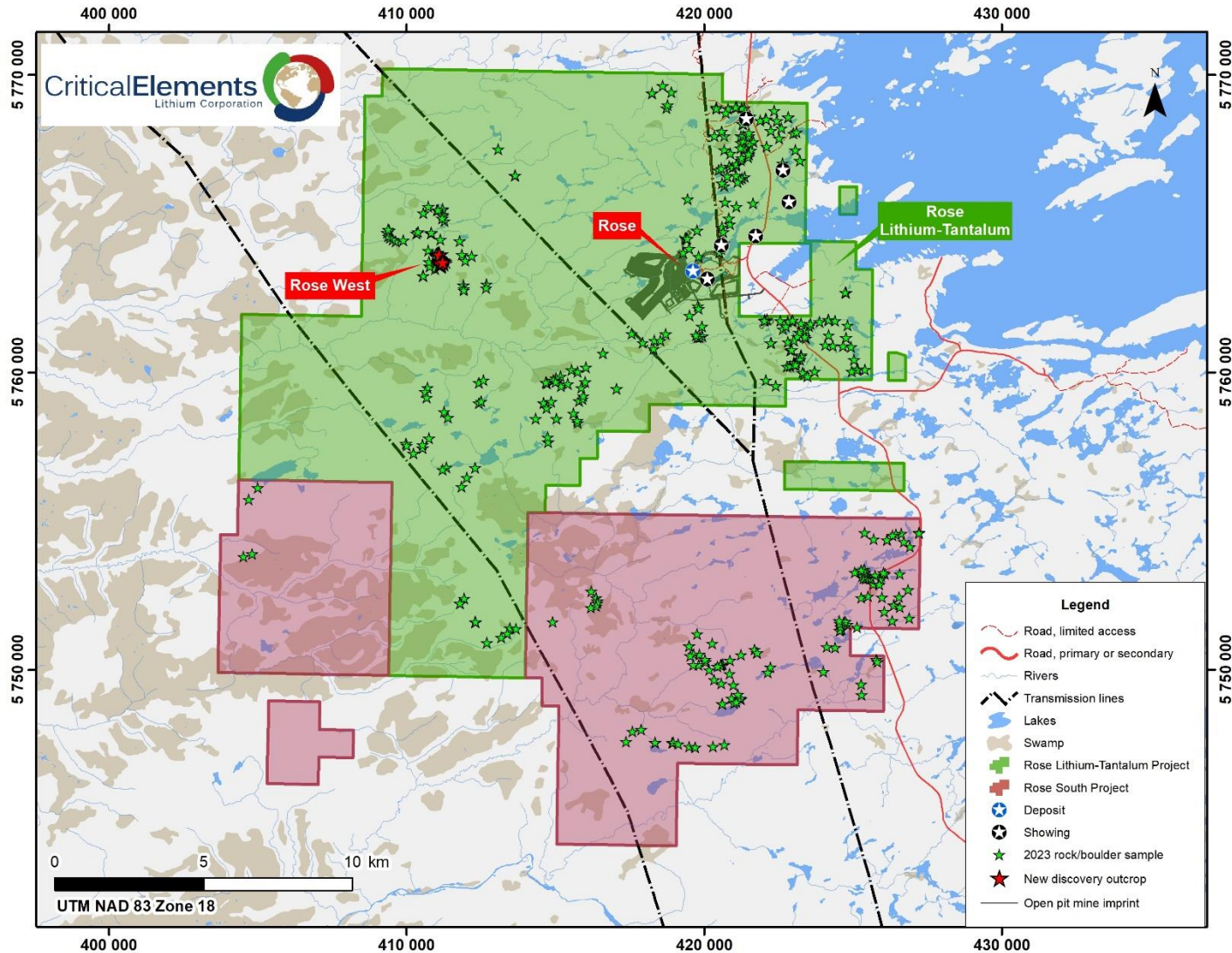
- Results include up to 2% Cu, 0.76% Ni, 0.07% Co, 3.38 g/t Pt and 0.62 g/t Pd

## Recent High-Grade Results at Lemare

- Results include up to 2.44% Li<sub>2</sub>O and 1.60% within an in-situ pegmatite outcrop
- Additional drill results of 1.04% Li<sub>2</sub>O and 67.91 ppm Ta<sub>2</sub>O<sub>5</sub> over 33.85 m, including 1.42% Li<sub>2</sub>O and 74.24 ppm Ta<sub>2</sub>O<sub>5</sub> over 18.8 m



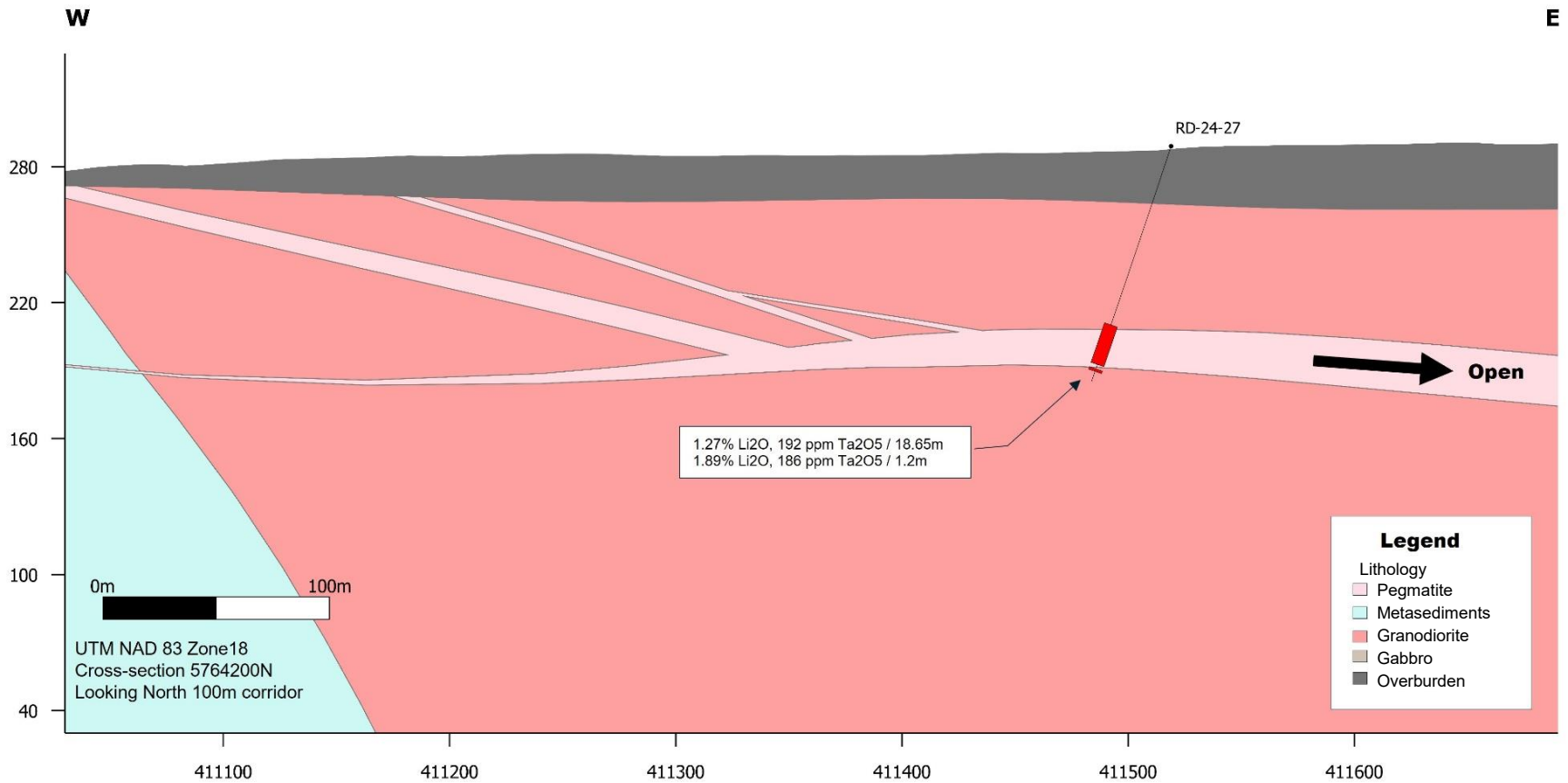
# Rose West Discovery and Expansion Potential



# Rose West Discovery and Expansion Potential

- **1.31% Li<sub>2</sub>O and 235 ppm Ta<sub>2</sub>O<sub>5</sub> over 40.40 m, including 1.64% Li<sub>2</sub>O and 219 ppm Ta<sub>2</sub>O<sub>5</sub> over 22.50 m in hole RD-24-20**
- **2.22% Li<sub>2</sub>O and 95 ppm Ta<sub>2</sub>O<sub>5</sub> over 20.30 m, including 2.78% Li<sub>2</sub>O and 92 ppm Ta<sub>2</sub>O<sub>5</sub> over 10.50 m in hole RD-24-23A**
- **1.30% Li<sub>2</sub>O and 142 ppm Ta<sub>2</sub>O<sub>5</sub> over 31.60 m, including 1.59% Li<sub>2</sub>O and 130 ppm Ta<sub>2</sub>O<sub>5</sub> over 25.50 m in hole RD-24-22**
- **1.43% Li<sub>2</sub>O and 178 ppm Ta<sub>2</sub>O<sub>5</sub> over 24.95 m, including 1.91% Li<sub>2</sub>O and 145 ppm Ta<sub>2</sub>O<sub>5</sub> over 13.50 m in hole RD-24-16A**
- **1.16% Li<sub>2</sub>O and 145 ppm Ta<sub>2</sub>O<sub>5</sub> over 24.30 m, including 1.41% Li<sub>2</sub>O et 159 ppm Ta<sub>2</sub>O<sub>5</sub> over 10.50 m in hole RD-24-21**
- **1.66% Li<sub>2</sub>O and 180 ppm Ta<sub>2</sub>O<sub>5</sub> over 12.20 m, including 2.34% Li<sub>2</sub>O and 153 ppm Ta<sub>2</sub>O<sub>5</sub> over 7.50 m in hole RD-24-07**
- **1.39% Li<sub>2</sub>O and 157 ppm Ta<sub>2</sub>O<sub>5</sub> over 35.30 m, including 2.33% Li<sub>2</sub>O and 152 ppm Ta<sub>2</sub>O<sub>5</sub> over 9.00 m in hole RD-24-25A**
- **1.29% Li<sub>2</sub>O and 121 ppm Ta<sub>2</sub>O<sub>5</sub> over 31.50 m, including 1.69% Li<sub>2</sub>O and 127 ppm Ta<sub>2</sub>O<sub>5</sub> over 13.50 m in hole RD-24-24**
- **1.22% Li<sub>2</sub>O and 250 ppm Ta<sub>2</sub>O<sub>5</sub> over 20.50 m, including 1.60% Li<sub>2</sub>O and 181 ppm Ta<sub>2</sub>O<sub>5</sub> over 15.00 m in hole RD-24-17**
- **1.27% Li<sub>2</sub>O and 192 ppm Ta<sub>2</sub>O<sub>5</sub> over 18.65 m in hole RD-24-27**
- **1.59% Li<sub>2</sub>O and 127 ppm Ta<sub>2</sub>O<sub>5</sub> over 13.80 m in hole RD-24-18**
- **1.75% Li<sub>2</sub>O and 201 ppm Ta<sub>2</sub>O<sub>5</sub> over 10.10 m in hole RD-24-19**

## 5764200N



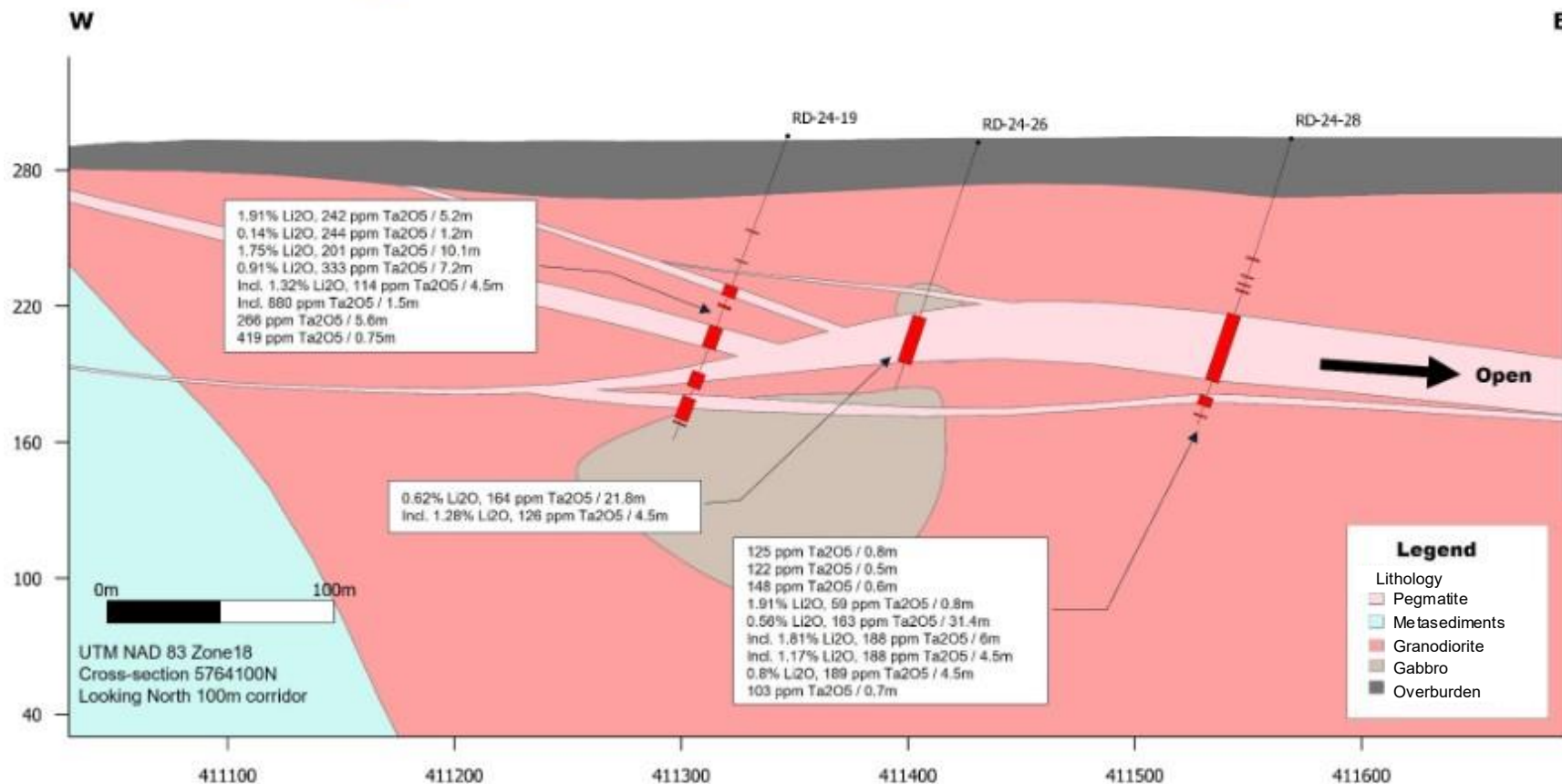
Sources:

Critical Elements Lithium Corporation: press release March 13, 2024.

Critical Elements Lithium Corporation: press release April 22, 2024.

# Sections (Cont'd)

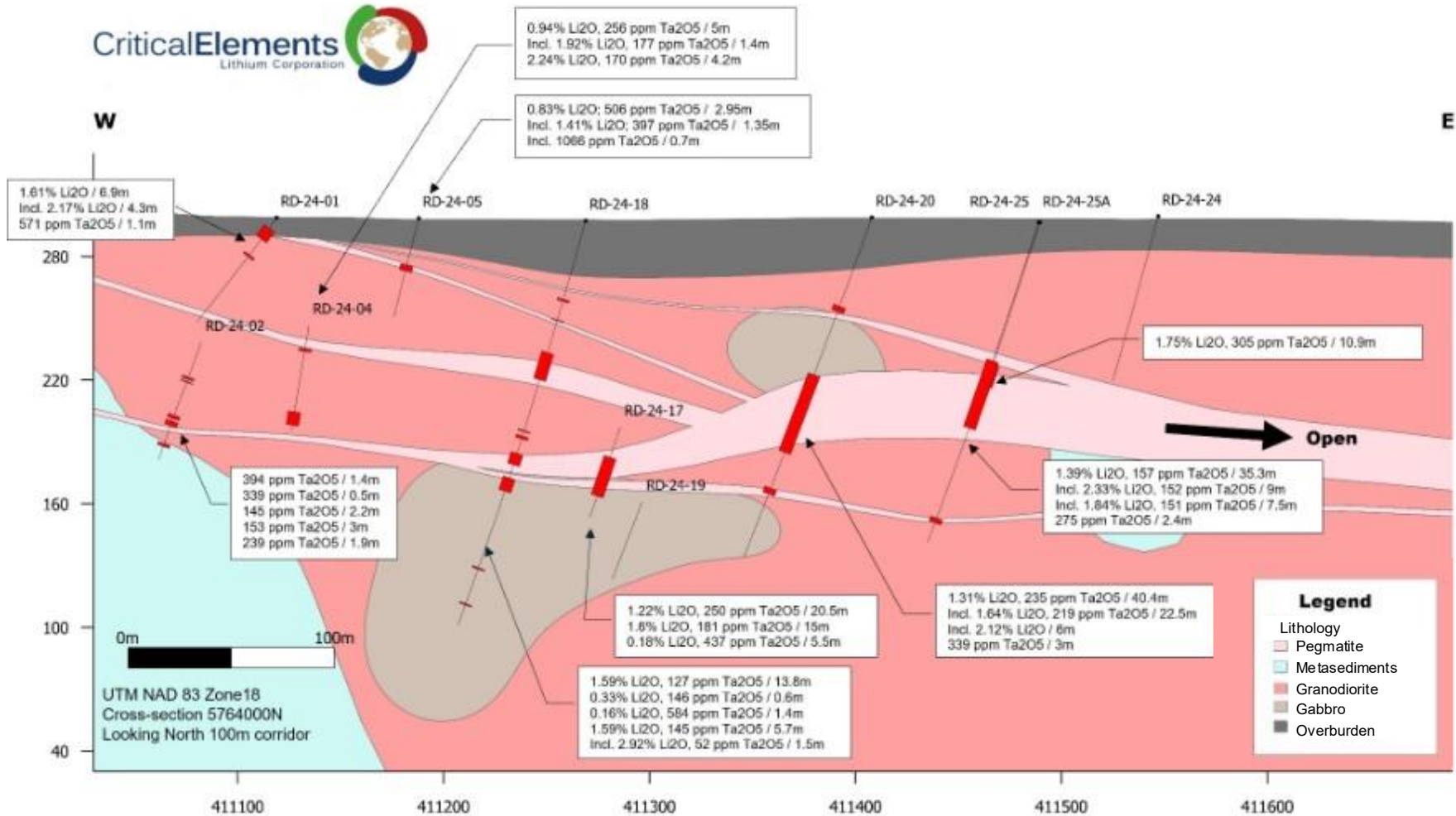
5764100N



Sources:  
Critical Elements Lithium Corporation: press release March 13, 2024.  
Critical Elements Lithium Corporation: press release April 22, 2024.

# Sections (Cont'd)

5764000N



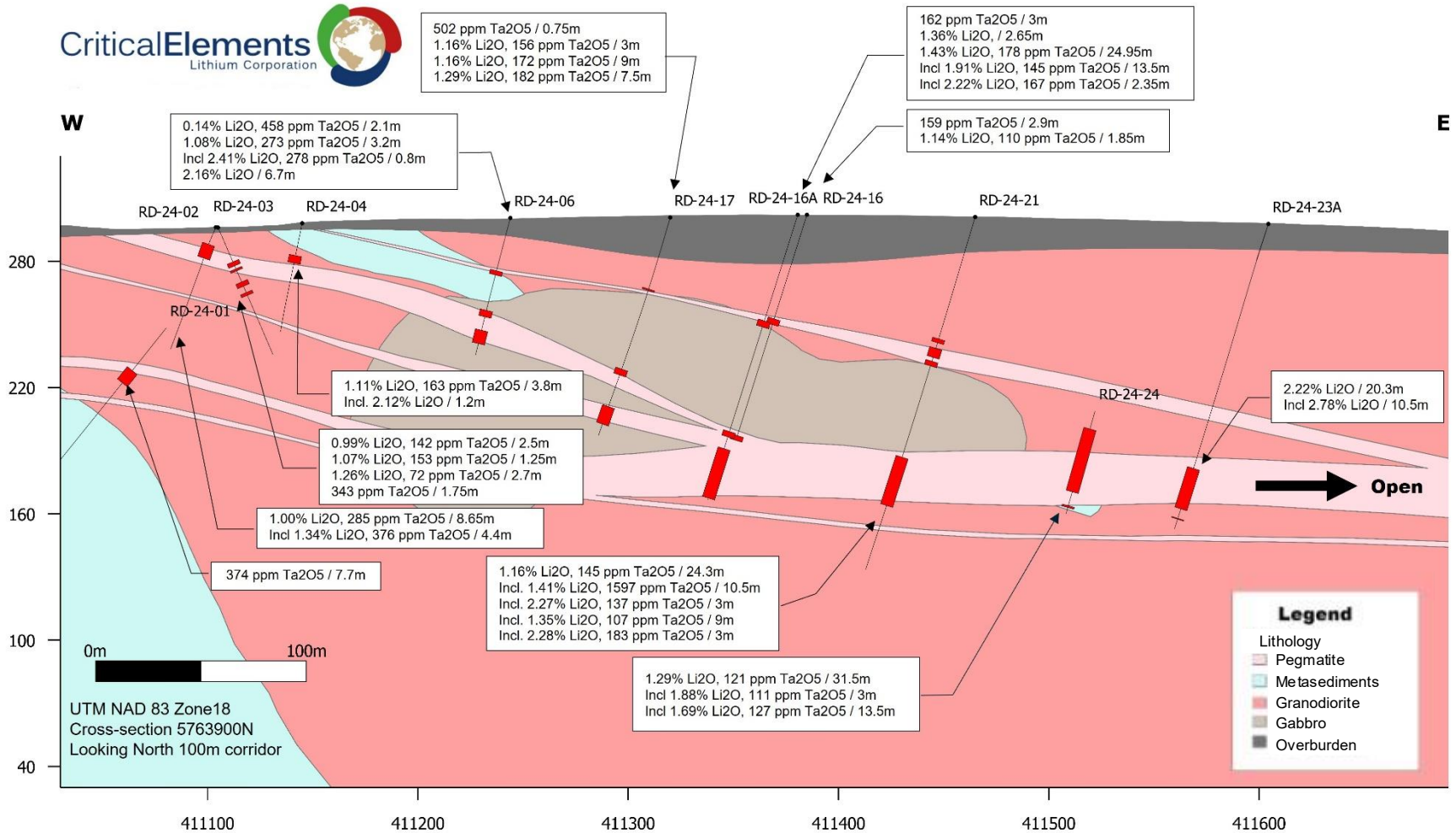
Sources:

Critical Elements Lithium Corporation: press release March 13, 2024.

Critical Elements Lithium Corporation: press release April 22, 2024.

# Sections (Cont'd)

5763900N



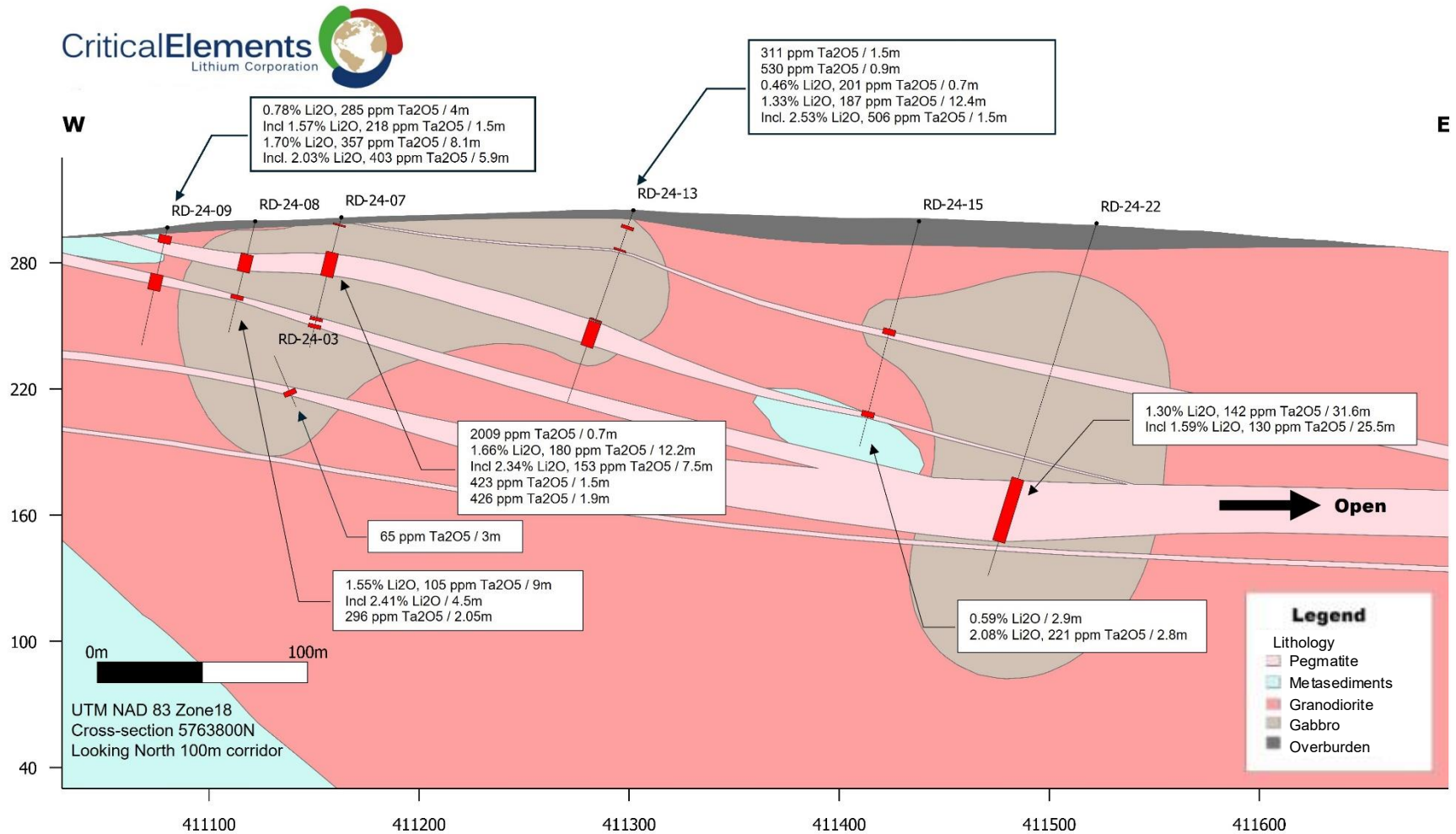
Sources:

Critical Elements Lithium Corporation: press release March 13, 2024.

Critical Elements Lithium Corporation: press release April 22, 2024.

# Sections (Cont'd)

5763800N



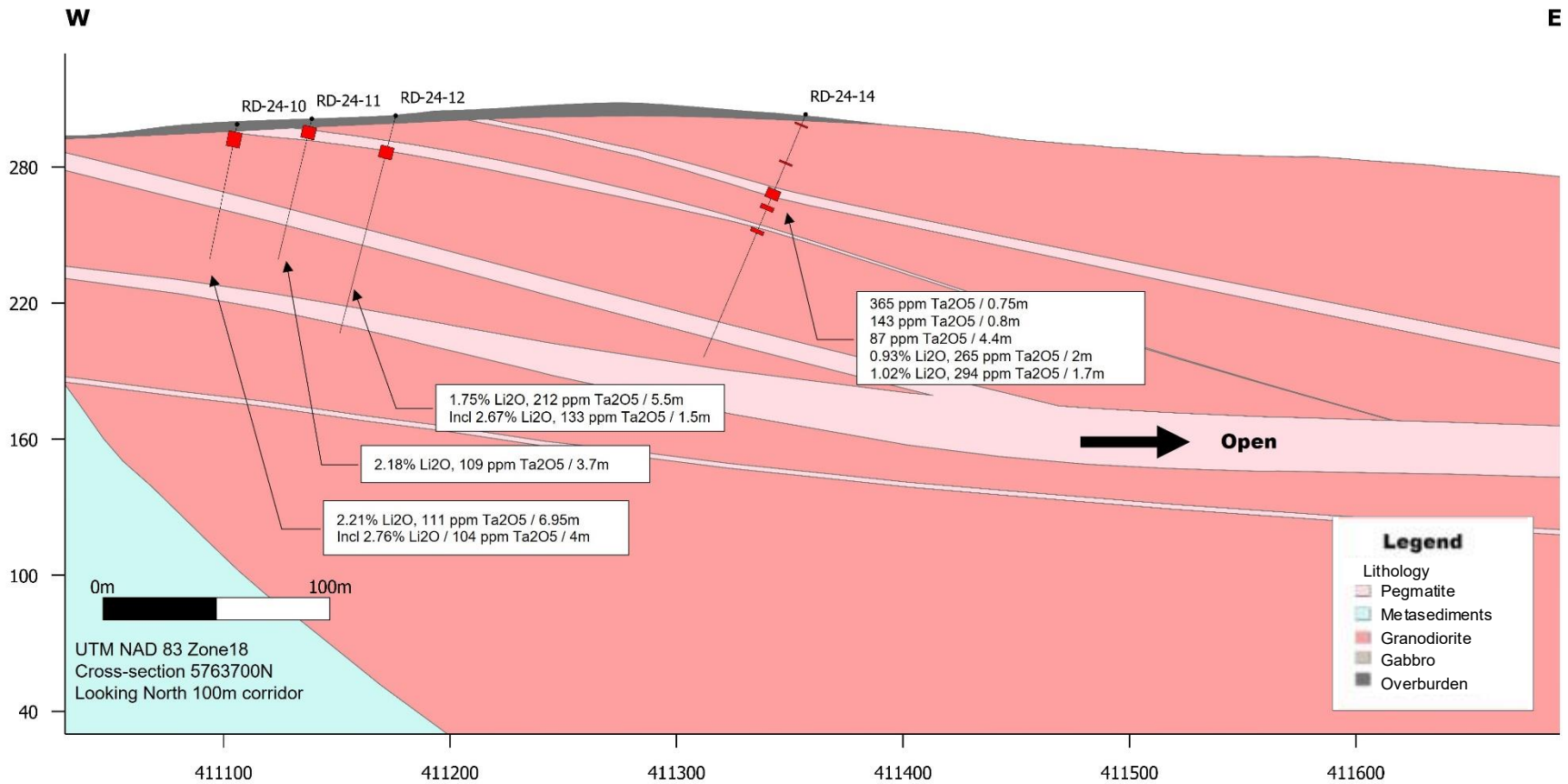
Sources:

Critical Elements Lithium Corporation: press release March 13, 2024.

Critical Elements Lithium Corporation: press release April 22, 2024.

# Sections (Cont'd)

5763700N

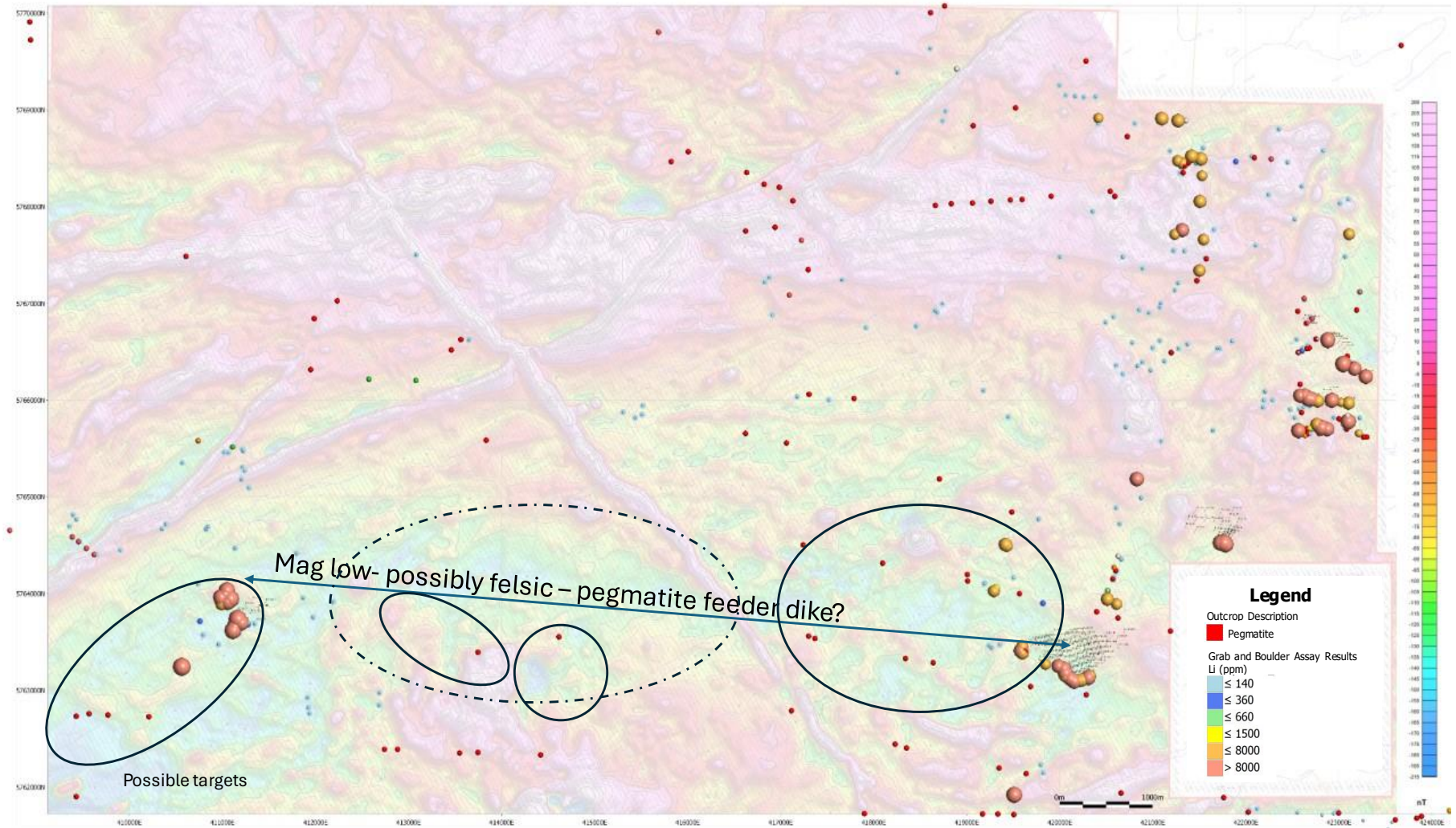


Sources:

Critical Elements Lithium Corporation: press release March 13, 2024.

Critical Elements Lithium Corporation: press release April 22, 2024.

## Potential Targets / Potential Feeder Dike



Red dots are mapped pegmatite outcrops in the SIGEOM database. No assay results.

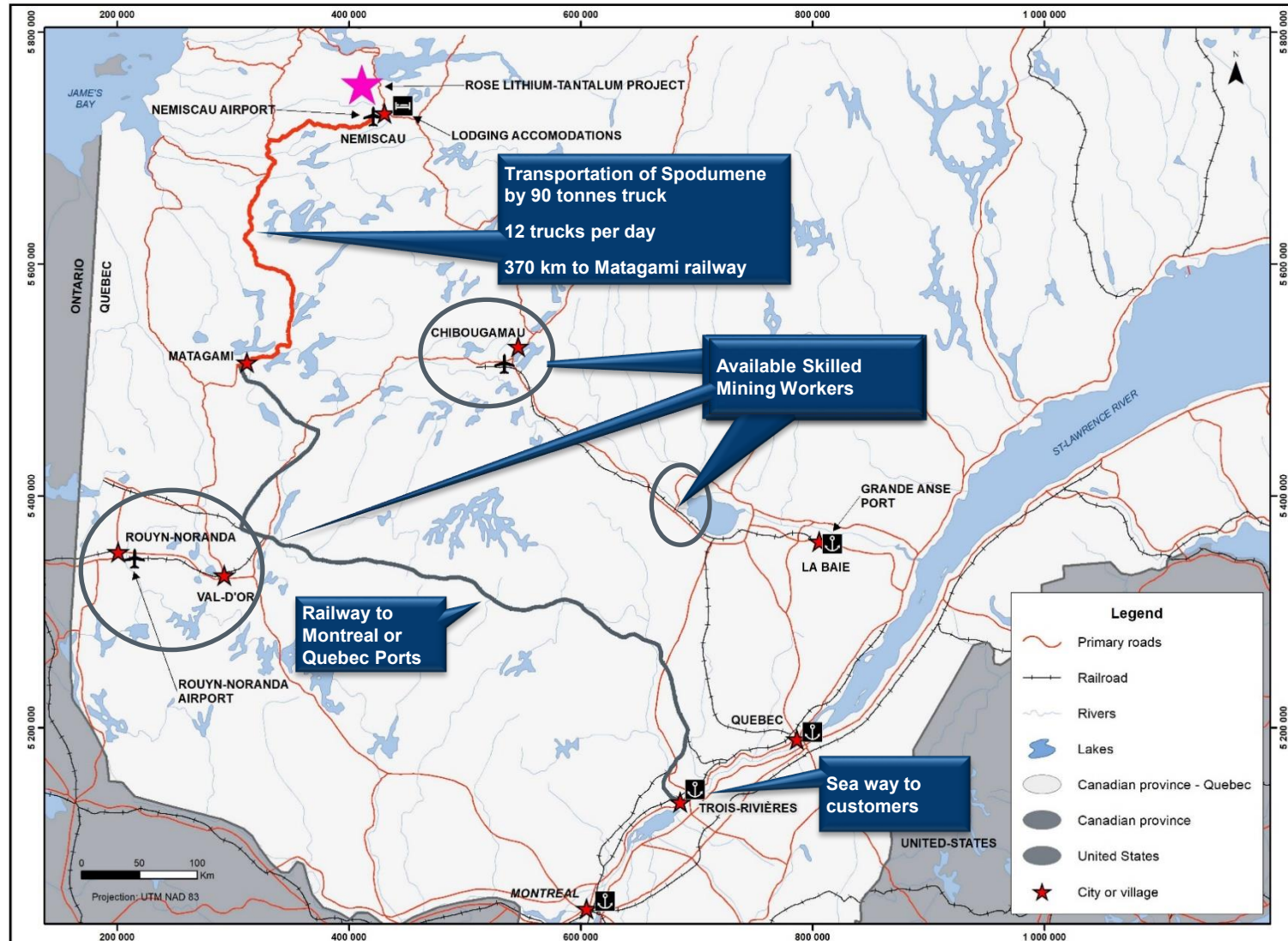
**CriticalElements**  
Lithium Corporation



**APPENDIX**

**TSX.V: CRE**





# Mineral Reserves And Resources<sup>(1)</sup>

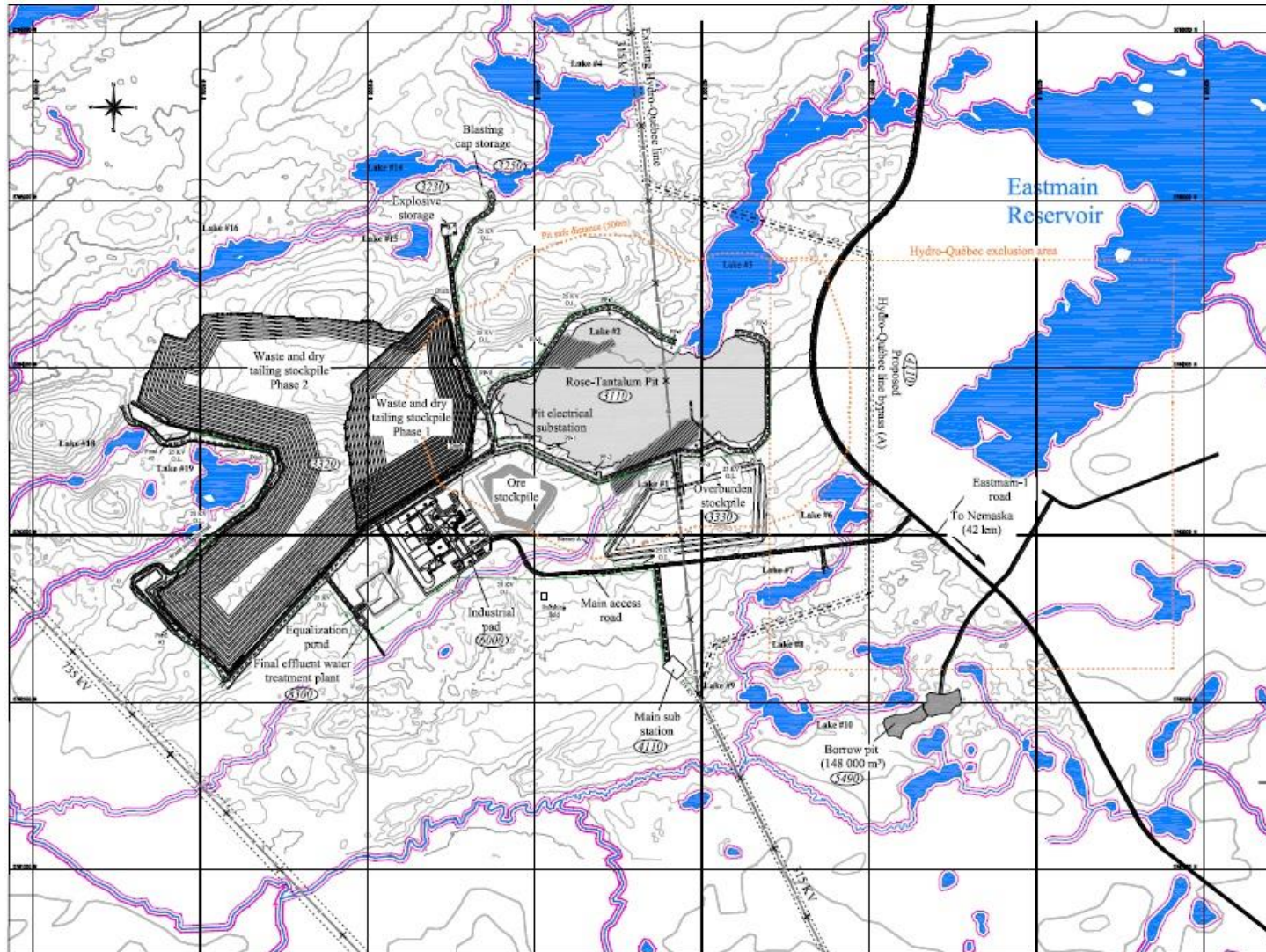
Category	Tonnage (Mt)	NSR (C\$)	Li2O_eq (%)	Li2O (%)	Ta2O5 (ppm)
Probable	26.3	165.00	0.92	0.87	138
<b>Total</b>	<b>26.3</b>	<b>165.00</b>	<b>0.92</b>	<b>0.87</b>	<b>138</b>

	Category	Tonnage	NSR (C\$)	Li2O_eq (%)	Li2O (%)	Ta2O5 (ppm)
Indicated	Pit-constrained	29,922,000	185	1.03	0.93	145
	Underground	624,000	177	0.96	0.91	82
	<b>Total Indicated</b>	<b>30,561,000</b>	<b>185</b>	<b>1.03</b>	<b>0.93</b>	<b>118</b>
Inferred	Pit-constrained	1,787,000	149	0.86	0.77	138
	Underground	597,000	150	0.87	0.80	101
	<b>Total Inferred</b>	<b>2,384,000</b>	<b>149</b>	<b>0.86</b>	<b>0.78</b>	<b>129</b>

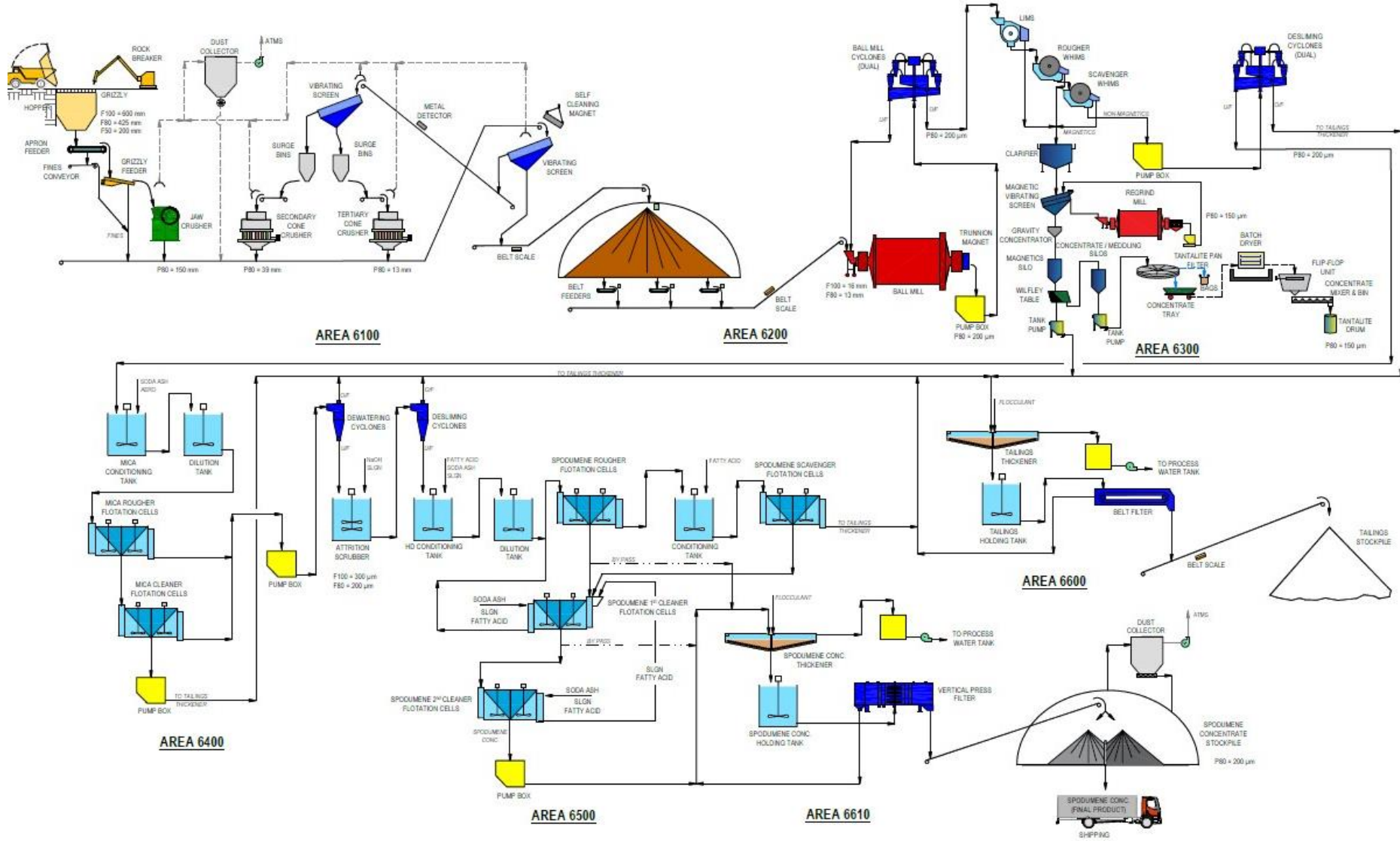
Source: Critical Elements Lithium Corporation: Rose Lithium-Tantalum Project Feasibility Study dated October 11, 2023..

(1) Dollar figures in Canadian dollars unless otherwise stated.

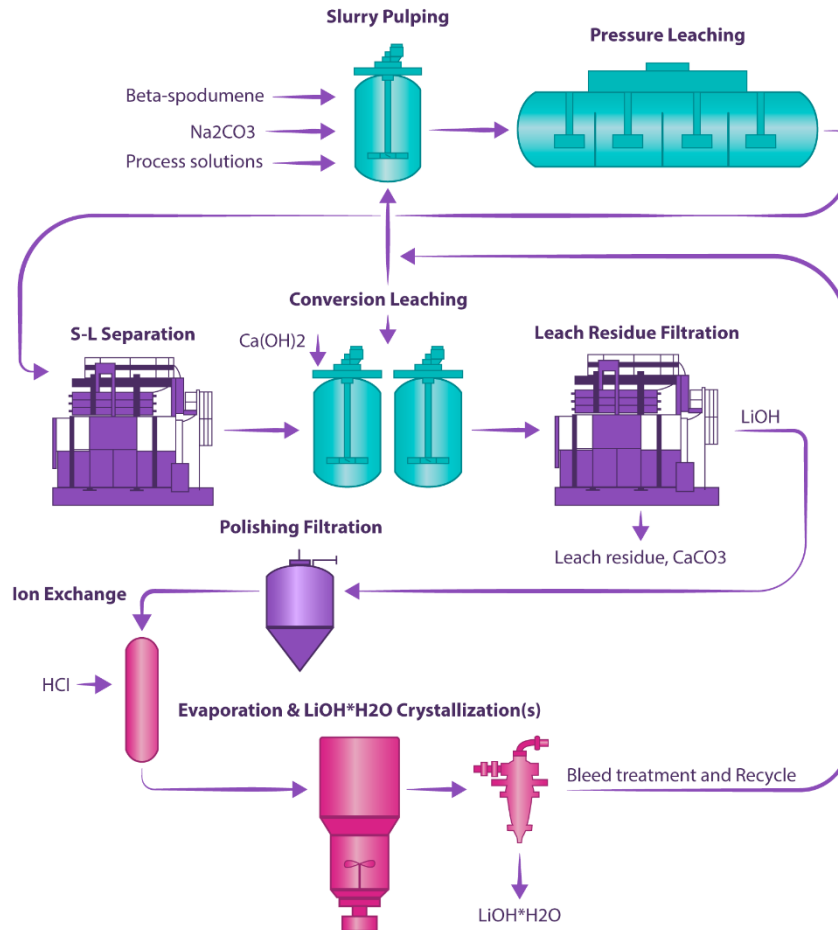
# Mine Infrastructure Layout



# Concentrator Detailed Flowsheet



Source: Critical Elements Lithium Corporation: Rose Lithium-Tantalum Project Feasibility Study dated October 11, 2023.



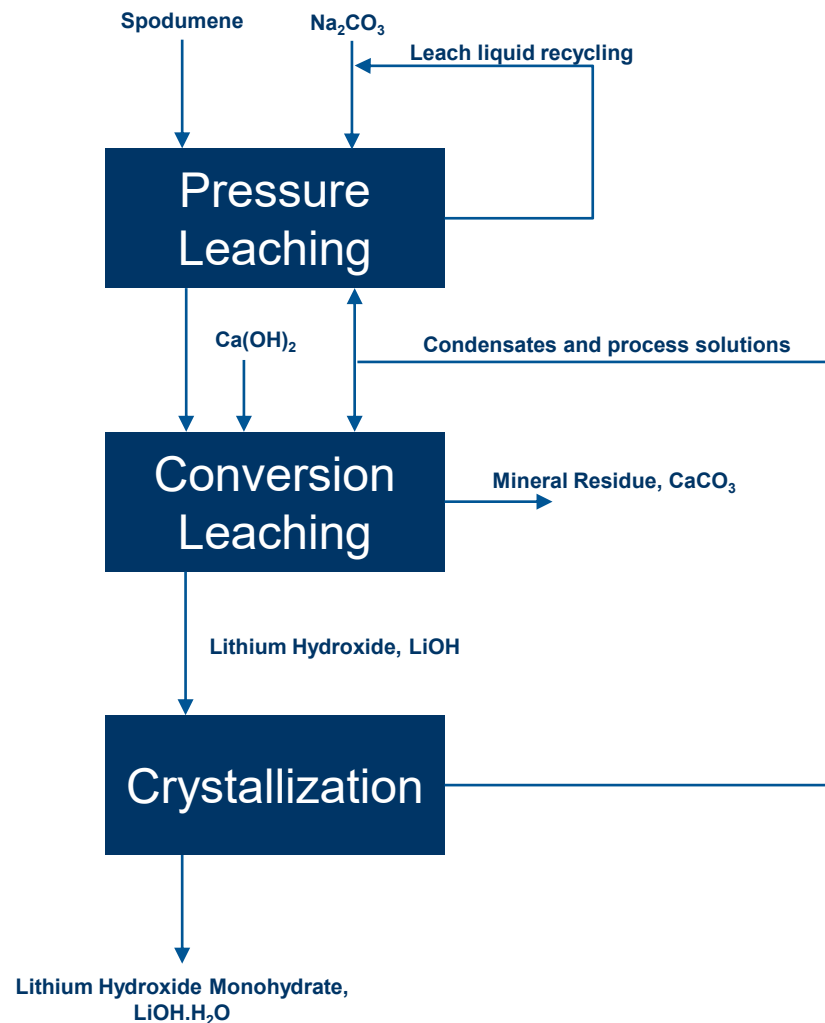
## About Metso Outotec

- Metso Outotec is a leading technology company in multiple mining and extraction industries, including the lithium industry, with a global presence and owned R&D facilities in Frankfurt, Germany and Pori, Finland, as well as other locations
- Metso Outotec offers competent knowledge of the various processing options for both beneficiating spodumene, as well as converting spodumene into saleable lithium salts

Sources: Metso Outotec pilot work, Company news release dated October 29, 2018.

(1) On August 11, 2022, the Corporation announced that it had complete an engineering study for a chemical plant to produce high quality lithium hydroxide monohydrate for the electric vehicle and energy storage system battery industries. The study was prepared by Metso Outotec and WSP in Canada (WSP).

(2) The Company is not in a position to confirm as of the date hereof if the hydroxide chemical plant will ever be implemented or that it will form part of the Rose Lithium-Tantalum project.



## The Metso Outotec alkaline leach process<sup>(1)</sup> benefits from:

- Acid and sulphate-free process
- Inert and neutral mineral residue
- Produces battery-grade lithium hydroxide monohydrate
- Simple process with fast throughput

## Several comparable projects have recently announced plans to incorporate the Metso Outotec process, including:

- “Metso Outotec and Halmek Lithium to construct the battery-grade lithium hydroxide process using soda leaching”, [www.mining.com](http://www.mining.com), 30 June 2021
- “Kokkola lithium hydroxide plant hydrometallurgical process with Metso Outotec proceeds”, Keliber Oy Progress Report Q1 2021
- “Metso Outotec alkaline pressure leach replaces acid roasting lithium conversion process”, Piedmont Lithium Scoping Update news release, 9 June 2021

Source: Metso Outotec.

(1) On August 11, 2022, the Corporation announced that it had complete an engineering study for a chemical plant to produce high quality lithium hydroxide monohydrate for the electric vehicle and energy storage system battery industries. The study was prepared by Metso Outotec and WSP in Canada (WSP).

(2) The Company is not in a position to confirm as of the date hereof if the hydroxide chemical plant will ever be implemented or that it will form part of the Rose Lithium-Tantalum project.

## **JEAN-SÉBASTIEN LAVALLÉE**

### *CEO and Director*

Jean-Sébastien Lavallée, P. Geo, has been the Chief Executive Officer of the Company since 2009. From 2009 to 2017, he also served as President. Mr. Lavallée was President and Chief Executive Officer of Quebec Precious Metals Corporation (TSX-V : QPM) from 2012 to May 2017. He also served as Director and Vice President Exploration in this Company from June 2017 to May 2021. Mr. Lavallée has been active in mining exploration since 1994. Mr. Lavallée has been on the Board of Directors of the Quebec Mineral Exploration Association “AEMQ” from 2017 to 2019. He is also working with Consul-Teck Exploration Minière Inc., a Val-d'Or based consulting firm. Most of the firm's mandates involve the generation and execution of projects in remote areas. Mr. Lavallée has acted as a geologist for many companies, including Eloro Resources Ltd., Agnico-Eagle Mines Ltd., Noranda Minerals Inc. and, Champion Minerals Inc. Having been responsible for the planning and execution of many exploration programs in recent years, Mr. Lavallée has acquired solid experience in exploration project development.

## **STEFFEN HABER**

### *President and Director*

Dr. Haber was appointed President of the Company in January 2017. He was President and Chief Executive Officer of Rockwood Lithium GmbH when Chemetall GmbH was legally split off in 2012. From 2011 to 2012, he was Managing Director of Chemetall GmbH and since 2007 President of Chemetall's Lithium business. Prior to joining Chemetall GmbH, Dr. Haber worked in different executive positions for Sanofi-Aventis SA and its predecessor companies, in France. Dr. Haber completed his doctorate in organic chemistry at the University of Kaiserslautern, Germany, in 1991 and added one year as a Post-Doctorate at Ecole Polytechnique in Paris. In 1997, Dr. Haber earned his Bachelor of Science in Management from the International School of Management in San Diego, in the United States. Dr. Haber is a fellow of the International Directors Program of INSEAD.

## **MARCUS BRUNE**

### *Vice President Finance and Director*

Dr. Brune was Chief Financial Officer of Rockwood Lithium from 2011 until the acquisition of Albemarle in 2015. He left Albemarle in 2016 once the lithium business was successfully integrated into Albemarle's organizational structure. Prior to joining Rockwood Lithium, Dr. Brune had worked in different executive positions in corporate finance and M&A for Rockwood Holdings and its predecessor companies since 2004. Prior to that, he was with McKinsey as a strategy consultant for organizational development and management. Dr. Brune completed his doctorate in material sciences at the Technical University of Dortmund, Germany, after earning a physics degree.

## **NATHALIE LAURIN**

### *Secretary & CFO*

Nathalie Laurin has over 30 years of experience in administration and accounting. The experience gained through working in various roles with increasing responsibilities, primarily in the natural resources sector, has given her a solid mastery of finance and project management. Since 2006, she has acted as corporate secretary and/or chief financial officer for several companies, most notably mineral exploration companies, including Critical Elements Lithium Corporation, Delta Resources Limited, MPV Exploration Inc., Quebec Precious Metals Corp. and BlackRock Metals.

## **YVES PERRON**

### *Vice-President Engineering, Construction, and Operations*

Mr. Yves Perron, Eng., MBA brings extensive experience in mining sector, engineering and construction in Québec to the Corporation. He was appointed Vice-President, Engineering and Construction by Stornoway Diamond in June 2012 and Vice-President, Engineering and Construction for Mason Graphite in August 2018. Mr. Perron served as Vice-President Engineering and Construction for Loop Industries since January 2021. Mr. Perron has over 25 years of experience in project management in the industrial sector within major international firms. Prior to joining Stornoway, Mr. Perron was Vice-President, Business Development and Project Manager at Delsaer and Seneca. He also held several management positions in areas of production, operation start-ups, maintenance, engineering and project management with ArcelorMittal and Xstrata. Mr. Perron holds a Bachelor Degree in Mechanical Engineering from Université du Québec – École de Technologie Supérieure in Montréal and a DEC in Civil Engineering Technology. In addition, he holds an MBA from Université du Québec in Montréal as well as an Executive MBA from Université Paris Dauphine.

## **ERIC ZAUNSCHERB**

### *Chairman*

Mr. Zaunscherb is a Canadian mining executive focused on building strong management teams for the responsible exploration and development of quality mineral assets. He is the Chair of the Board of Directors of Critical Elements Lithium Corp. since 2020 and the Chief Executive Officer and Chair of GR Silver Mining Ltd. since March 2022. He is an independent director of TriStar Gold Inc. and Outback Goldfields Corp. Originally an exploration geologist, Mr. Zaunscherb spent 34 years as a mining analyst, most recently serving as Managing Director, Research - Metals and Mining Analyst at a leading investment bank where he coordinated the global mining equity research team. He welcomes new technologies and industry initiatives in diversity and socially responsible investing, ensuring that local communities receive sustainable benefits from mineral resource development.

## **MARC SIMPSON**

### *Director*

Mr. Marc Simpson is President and Chief Executive Officer of Vanadian Energy Corporation. Mr. Simpson has worked in the mining and exploration industry for over 33 years. He has worked for junior, mid-tier and senior mining companies on projects both in Canada and worldwide, including Bema Gold (sold to Kinross for C\$3.5B in 2007), B2Gold, and Echo Bay Mines. Mr. Simpson has been involved in exploration and mining projects from grass roots exploration through to mine development and production. Mr. Simpson obtained his B.Sc. in Geology from the University of Manitoba and is a member of Association of Professional Engineers and Geoscientists of British Columbia and Association of Professional Engineers and Geoscientists of the Province of Manitoba.

## **MATTHEW LAURISTON STARNES**

### *Director*

Mr. Starnes is a lawyer with over 22 years of experience. Mr. Starnes is currently a consultant lawyer based in Tokyo specializing in mining law, working on projects in Chile, Madagascar and Uzbekistan. Prior to this he was legal counsel in Sumitomo Corporation's Mineral Resources Division in Tokyo, Japan. Among other things, he was responsible for legal aspects of Sumitomo's investment in the Sierra Gorda copper project in Chile was also part of the team for the Ambatovy project in Madagascar. Prior to joining Sumitomo, he also was the General Counsel and Deputy CEO for the Ambatovy project. Mr. Starnes has also practiced as a corporate lawyer with major law firms in Montreal.

## **MAYSA HABELRIH**

### *Director*

Ms. Maysa Habelrih is a results-oriented executive and board director who leverages her global experience and track record of operational excellence, transformation of organizations, and growth. She has expertise in international joint venture and boards management, in complex environments. Presently, she is an independent Director of: Polycor Inc., Resources Qualium Inc., Forage FTE Drilling, LDV consultants and Réseau 3S&E. From 2021 to March 2023 Maysa acted as the CEO of the Mouvement Québécois de la Qualité, a non-profit organization focused on increasing the competitiveness and productivity of Québec organizations. From 1989 to 2019, she worked at Alcan, which became Rio Tinto Aluminum in 2007. Maysa finished as General Manager/Vice President of Joint Ventures responsible for nine joint venture operations worldwide. Maysa holds a bachelor's and master's degree in chemical engineering from McGill University in Montreal, as well as the International Masters Program for Managers (IMPM).

## **ANI MARKOVA**

### *Director*

Mrs. Markova has over 25 years of experience in global capital markets, including a successful investment career managing up to C\$2B of mutual fund assets, she is an award-winning portfolio manager with a proven track record in integrating macroeconomic trends, equity analysis, and sustainability assessments into strategic capital allocations and risk management. She is an independent board member, currently an officer and director of SilverCrest Metals and prior director of Golden Star Resources. She has taken on board leadership roles and initiatives in corporate strategy and risk oversight. She is currently Chair of the Safety, Social and Environmental Responsibility Committee and a member of the Audit and Compensation Committees of SilverCrest Metals. With expertise in finance, macroeconomics and commodity cycles, as well as applying critical thinking in complex decision-making processes, she is committed to assisting businesses in their transitioning to a decarbonized and sustainable future. As a co-founder of Onyen Corporation and CEO of Investor View Advisory, she actively engages with companies on sustainability topics and provides guidance on disclosure and integration in enterprise risk management systems. Ms. Markova holds an MBA from George Washington University in Washington DC, a Chartered Financial Analyst (CFA) designation, an Investment Manager (ICM) designation, a Corporate Board International (CDI.D) designation, Competent Boards (GCB.D) designation and Climate and Biodiversity (CCB.D) designation.

## **VANESSA LAPLANTE**

### *Director*

Ms. Vanessa Laplante has over 32 years of experience in management, finance, and taxation, including 18 years in the mining industry. She is a leader in her specialized field, mining taxation. From 2021 to 2023, she served as the President of the Board of Directors for the Quebec Mining Association, becoming the second woman in the history of QMA to hold this position. During her tenure, she chaired the taxation committee for over 10 years. As an independent director at Azimut Exploration Inc. since February 2024, Mrs. Laplante has developed her expertise within major Canadian gold producers. Most recently, she held the position of Director of Tax and the Montreal office as well as Treasurer for the Canadian Malartic Partnership, a company formerly owned by Agnico Eagle Mines Limited and Yamana Gold Inc. and operating the Canadian Malartic and Odyssey mines from 2014 to 2023. She has also held similar roles and made significant contributions at Osisko Mining Corporation from 2010 to 2014, Iamgold Corporation, and Cambior Inc. from 2006 to 2010. From 2019 to 2020, Mrs. Laplante served as a board member and Chair of the Audit Committee at Nemaska Lithium Inc. She was a member of the advisory committee on the simplification of the mining royalty regime formed by the Quebec Ministry of Natural Resources from 2015 to 2019. Vanessa Laplante holds the ASC, C.Dir. designation - Certified Corporate Director of the University Laval Certification Program in Corporate Governance. She also holds a bachelor's degree in business administration from the University of Sherbrooke and is a member of the Ordre des comptables professionnels agréés du Québec (CPA designation).

## **SÉBASTIEN PERREAULT**

*Senior Director of mining site operations*

Mr. Sébastien Perreault has over 25 years of experience in open-pit mining operations and mining project management both in Quebec and abroad. Mr. Perreault contributed to the successful start-up of several mining projects along with the establishment of operational teams at several mining companies, including Barrick, High River Gold, Sherritt, SEMAFO Inc. and IAMGOLD Corporation. He holds a bachelor's and a master's degree in mining engineering from Université Laval in Quebec City.

## **NANCY HARVEY-DUQUET**

*Senior Director of Sustainable Development and Environment*

Ms. Duquet-Harvey has over 25 years' experience in environmental studies, environmental monitoring and working closely with local aboriginal groups. She has contributed to the successful implementation of numerous environmental programs at several mining companies, including Agnico Eagle – Nunavut, Alamos Gold – Young-Davidson, Kirkland Lake Gold – Macassa Mine, New Britannia Mine – Manitoba and Kinross Gold – Macassa Mine, Bell Creek Mill. Ms. Duquet-Harvey holds a Bachelor of Science in Environmental Management from Royal Roads University in Victoria, British Columbia and a Mining Engineering Technician from the Haileybury School of Mines.

## **LLOYD MAYAPPO**

*Cree Relation Coordinator*

Mr. Lloyd Mayappo has more than 30 years of experience as a foreman, project manager and contact person within the Eastmain Cree Nation. He has served 12 years in the political field as Councilor and Chief for Cree Nation of Eastmain with an excellent knowledge of the New Relationship Agreement with the Government of Quebec and Canada. Worked for Hydro-Québec/Société d'énergie de la Baie-James as an advisor of Cree Relations on the EM-1 A/Sarcelle/Rupert diversion project. Recently, was the Director of construction operations in civil works for Wechidodao a Cree company in partnership with Excavation Michel Paradis Inc. in Eastmain. Mr. Mayappo speaks fluently in French, English and Cree.

# CORPORATE CONTACTS

*North American sourced lithium and tantalum  
to power a clean energy future*

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**Jean-Sébastien Lavallée, CEO**  
**Phone: +1 (819) 354-5146**

**TSX.V: CRE**

