

Developing a strategic stockpile of critical mineral graphite and lithium properties in Quebec for a North American climate success story

TSXV: LMR

OTC: LMRMF

Frankfurt: DH8C

September 2023





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The Corporation's actual results, programs and financial position could differ materially from those anticipated in such FLI as a result of numerous factors, risks and uncertainties, many of which are beyond the Corporation's control. These include, but are not limited to: the market for critical minerals; the evolution of supply and demand for critical minerals; the Corporation's projects may not be explored or developed as planned; uncertainty relating to possible cost-overruns in implementing its business strategy and developing its projects; market prices affecting development of the projects; the availability and ability to secure adequate financing and on favourable terms; inability to obtain required governmental permits; any limitations on operations imposed by governments in the jurisdictions where we operate; technology risk; inability to achieve and manage expected growth; political risk associated with foreign operations; changes in government regulations, including currency controls; changes in environmental requirements; failure to obtain or maintain necessary licenses, permits or approvals; risks associated with COVID-19; insurance risk; litigation risk; receipt and security of mineral property titles and mineral tenure risk; changes in project parameters; uncertainties associated with estimating mineral resources and mineral resources in the future, including uncertainties regarding assumptions underlying such estimates; whether mineral resources (if any) will ever be converted into mineral reserves; opposition to exploration and/or development of the projects; surface access risk; geological, technical, drilling or processing problems; health and safety risks; unanticipated results; unpredictable weather; unanticipated delays; reduction in demand for minerals; intellectual property risks; dependency on key personnel; workforce and equipment availability; currency and interest rate fluctuations; and volatility in general market and industry conditions.

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Land Acknowledgement

We would like to begin by acknowledging that the land/projects where we operate are located within the traditional land of the Algonquin Anishnaabeg and Cree Eeyou Istchee Peoples.

Our vision is to embrace Indigenous people and Indigenous values within our projects to develop a sustainable approach on our path to critical minerals development, while honouring the lives, memories, and hopes of all seven generations close.

The La Loutre graphite project site is located within the Kitigan Zibi Anishinabeg (KZA) First Nation's territory. The KZA First Nation is part of the Algonquin Nation and the KZA traditional territory is situated within the Outaouais and Laurentides regions.

The Bourier lithium project site is located south-east of the Eeyou Istchee James Bay territory in Quebec, near Nemaska Lithium and Critical Elements.





Lomiko – a responsible operator of choice Developing solutions for energy transition



Lomiko advancing deep resource and processing knowledge for graphite & lithium production in Canada Upstream, Midstream, Downstream with M&A and partnerships

Strategic Stockpile of Graphite Opportunities

- ✓ 3mt of in situ indicated graphite
- ✓ Advancing graphite knowledge base across 156 sq km in southern Quebec

Early-stage lithium

√ 102 sq km claims with lithium potential

Partner of choice



The Lomiko Advantage

Potential for Wealth Creation

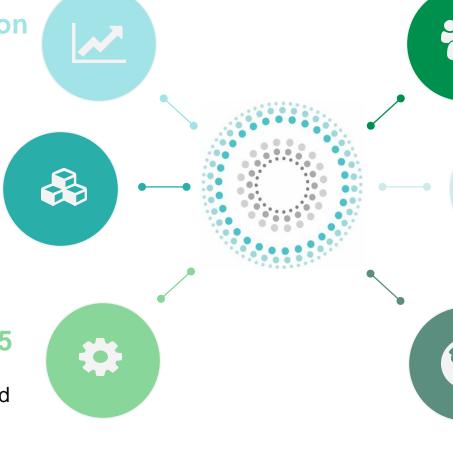
Path to \$1 billion + market cap through production profile and M&A

Premium Product

- Over 70% fines in flake distribution – anode profile
- Clean energy, carbon neutral
- 99.9% purity in current tests

Production outlook within 5 years

- Can provide up to 10% of demand in NA
- 15-year mine life at PEA level



Diverse & Experienced Team

Values driven, energetic and experienced management team

Strong Partnership Focus

In Canada, Quebec and the USA

Massive Exploration UpsideCreating strategic stockpile of

- Creating strategic stockpile of graphite
- Advanced exploration stage graphite project
- Early exploration stage lithium project



Lomiko partners









UNIVERSITÉ





National Research Council Canada Conseil national de recherches Canada











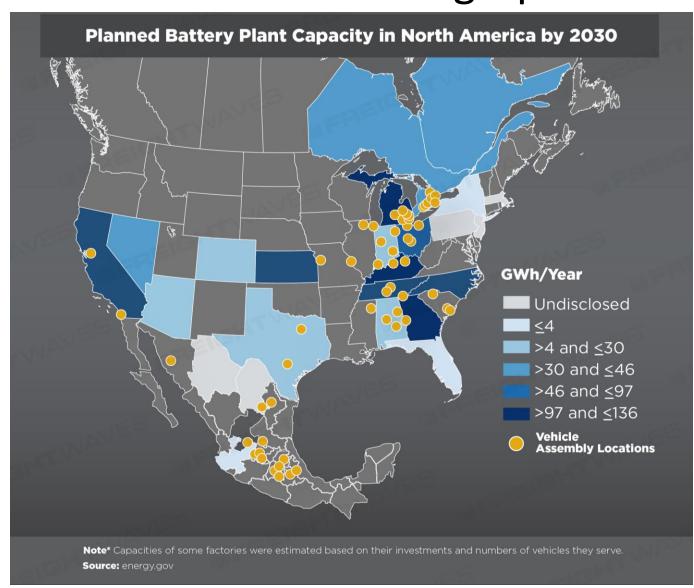
Market for Graphite



Lomiko can provide 10% of North American graphite

A massive increase in battery plant capacity - most to start production from 2025-2030

- A wave of new planned electric vehicle battery plants will increase North America's battery manufacturing capacity from 55 GWh/year in 2021 to nearly 1,000 GWh/year by 2030.
- Current announced capacity at 1,000 GWh (1TWh)
- By 2030, this production capacity will support the manufacturing of roughly 10 to 13 million all-electric vehicles per year.
- Graphite sourced from North America key to USA and North American supply chain



Source: DoD



EV Market update

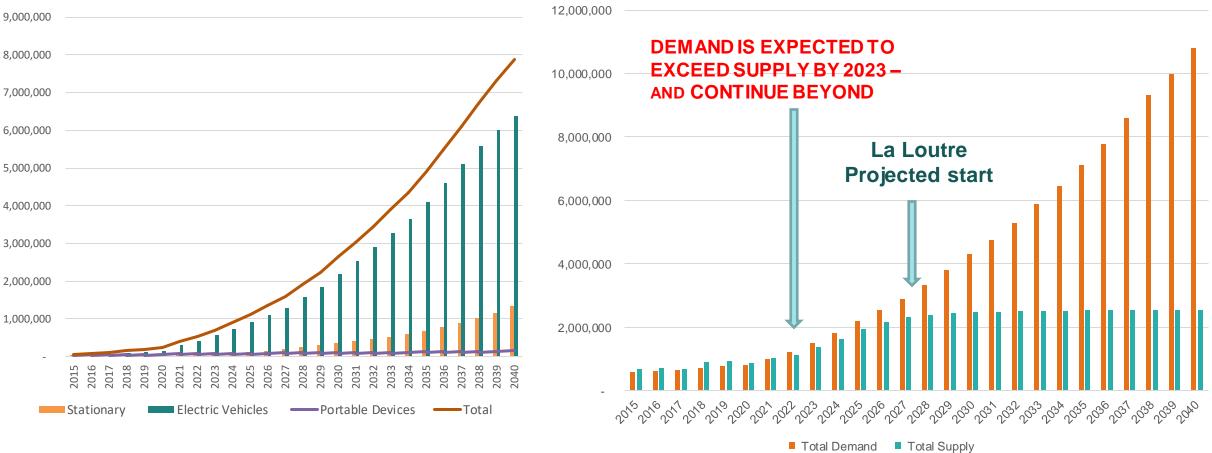
- Last year, sales of EVs exceeded 10 million units. China remained the main market in 2022, accounting for around 60% of global electric car sales, followed by Europe and the US.
- The International Energy Agency (IEA) is expecting new purchases to accelerate in the second half of this year, ultimately hitting a total of 14 million by the end of 2023. The agency expects that around 18% of all cars sold worldwide in 2023 will be electric up from only 2.5% in 2019.
- "The increase in demand for electric vehicles is driving demand for batteries and related critical minerals," the IEA states in its global EV outlook for this year.
- Rho Motion data shows that there were 5.8 million sales of passenger cars and lightduty vehicle EVs during the first half of 2023. As for which companies sold the most, China's BYD took the top spot, with sales almost doubling in H1 of this year compared to H1 2022.



Graphite shortfall starting in 2023 Shortfall to increase to 8Mt by 2040



Graphite Market Balance - Projected Demand and Supply (Mt)





La Loutre Graphite Project



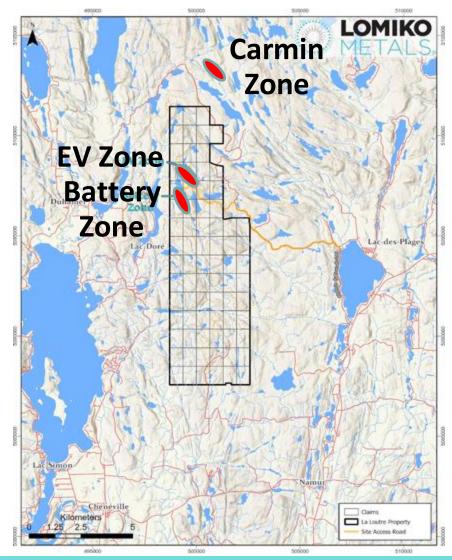




La Loutre PEA details

- Two known deposits currently being explored: EV Zone and Battery Zone
- LOM plant production of 21.8 Mtonnes of mill feed at 6.78% Cg diluted
- Graphite concentrate production at 1.43 Mtonnes grading 95.0% Cg
- 14.7-year mine life producing 100,000tpy of graphite
- Exceeded PEA test with PFS level testing Open circuit variability flotation tests produced concentrate grades between 97.9% and 99.7% Cg
- Focused footprint relative to claim size

Carmin Acquisition – historic PFS





La Loutre Graphite Over 70% fines

- Developed and optimized PFS level flotation plant flowsheet -LCT testing achieved 94.7% recovery and 98.6% Cg grade
- La Loutre flake distribution is over 70% fines suitable for anode market
- -100 mesh is used in industrial applications but most commonly in battery production In Shortage



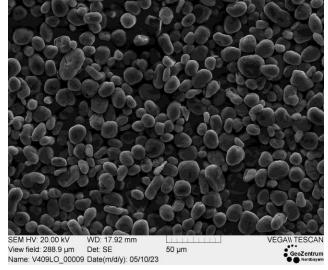
Size Fraction Analysis of Combined Concentrate of LCT – PFS Level MetPro Report Feb 2023

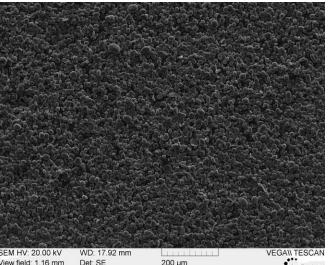
33% of +100 mesh	Size (Mesh)	Size (µm)	Mass (%)	C(t) (%)	C(t) Distributior (%)		
+	32	500	0.4	98.3	0.4		
, of	48	300	5.6	98.7	5.5		
33%	80	180	18.1	98.3	17.9		
	100	150	9.5	98.8	9.4		
	150	106	17.0	99.4	17.1		
	200	75	18.6	99.6	18.7		
	325	45	18.2	99.5	18.2		
J	-325	-45	12.7	99.1	12.7		
	Final Concentrate		100	99.1	100		



La Loutre metallurgical program 99.99% purified graphite content

- ✓ Completed PFS level met testing and optimized flow sheet Completed value-added testing with ProGraphite micronization, spheroidization, and purification:
- ✓ Proved that La Loutre material is suitable for battery applications Spherical Graphite production yielded excellent results
- ✓ Achieving excellent 99.99%Cg SPG and flake purity
- ✓ All physical characterization tests produced excellent results
- ✓ Achieved continuous and reliable production of micronized products with homogenous properties.
- ✓ Low specific energy input to convert the La Loutre flotation concentrate to micronized material.







La Loutre metallurgical program – next steps

R&D with partners CRITM, COREM and NRC

- Testing underway on the flotation concentrate for battery-grade suitability, coating to produce cSPG (coated spherical graphite) for battery trials
- Process 1,000 kg rock sample to produce flotation concentrate
- Purify flotation concentrate on a bigger scale to confirm lab-scale testing
- Test thermal purification

R&D led by Lomiko

- Finishing purification testing on SPG sample
- Battery trails with Polaris in the US

Develop relationships with potential partners and customers

- Technical Data Sheets for flotation concentrate and SPG developed
- In discussions with anode and car manufacturers for strategic investments



Achieving 184% Increase in Tonnage Indicated Mineral Resources

La Loutre Resource Estimate (Effective Date: March 31, 2023) - PFS

		2	2023 MRE		2021 MRE			
Deposit		EV	Battery	TOTAL	EV	Battery	TOTAL	
Cut-off (%) Cg		1.5	1.5	1.5	1.5	1.5	1.5	
Indicated	Tonnage (kt)	24,267	40,429	64,696	8,158	15,007	23,165	
mineral	Graphite (%)	5.80	3.86	4.59	6.48	3.44	4.51	
resource	Graphite (kt)	1,407	1,562	2,969	529	516	1,045	
Inferred	Tonnage (kt)	3,067	14,384	17,452	12,829	33,992	46,821	
mineral	Graphite (%)	4.29	3.60	3.72	5.81	3.33	4.01	
resource	Graphite (kt)	132	518	650	745	1,132	1,878	

Notes to accompany the Mineral Resource Estimate:

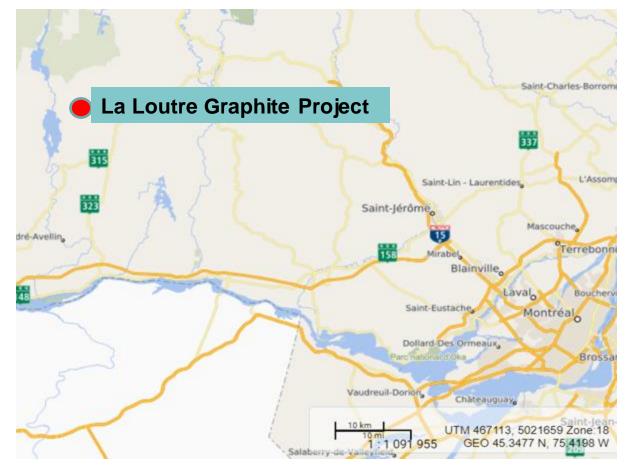
- 1. The independent and qualified persons for the mineral resource estimate, as defined by NI 43 101, are Marina lund, P.Geo. (InnovExplo Inc.), Martin Perron, P.Eng. (InnovExplo Inc.)., Simon Boudreau, P.Eng. (InnovExplo Inc.). and Pierre Roy, P.Eng. (Soutex Inc.). The effective date of the estimate is March 31st, 2023.
- 2. These mineral resources are not mineral reserves as they do not have demonstrated economic viability. The mineral resource estimate follows current CIM Definitions (2014) and CIM MRMR Best Practice Guidelines (2019).
- 3. The results are presented undiluted and are considered to have reasonable prospects of economic viability .
- 4. The estimate encompasses two mineralized domains (EV and Battery) using the grade of the adjacent material when assayed or a value of zero when not assayed.
- 5. No capping w as applied on 1.5m composites.
- 6. The estimate was completed using sub-block model in Leapfrog Edge 2022 with user block size of 5m x 5m x 5m and minimum block size of 2.5m x 2.5m. Grades interpolation was obtained by ID2 using hard boundaries.
- 7. Bulk density values were applied by lithology (g/cm3): low grade zone = 2.82; high grade zone = 2.82; paragneiss = 2.8; quartzite = 2.73; pegmatite = 2.63, marble = 2.75 and OB = 2.0.
- 8. The mineral resource estimate is classified as indicated and inferred. The Indicated mineral resource category is defined with a minimum of three (3) drill holes in areas where the drill spacing is less than 55 m, and reasonable geological and grade continuity have been demonstrated. The Inferred category is defined with a minimum of two (2) drill holes in areas where the drill spacing is less than 100m, and reasonable geological and grade continuity have been demonstrated. Clipping boundaries were used for classification based on those criteria.
- 9. The mineral resource estimate is pit-constrained with a bedrock slope angle of 45° and an overburden slope angle of 30°. It is reported at a graphite cut-off grade of 1.5%. The cut-off grade was calculated using the following parameters: processing cost = C\$13.04; product transporting cost = C\$41.16; mining cost (rock) = C\$3.70; mining cost (OB) = C\$2.90; graphite price = US\$1,098.07 /tonne of graphite; USD:CAD exchange rate = 1.32; graphite recovery to concentrate product = 94.7%. The cut-off grade should be re-evaluated in light of future prevailing market conditions (metal prices, exchange rates, mining costs etc.).
- 10. The number of metric tons was rounded to the nearest thousand, following the recommendations in NI 43 101 and any discrepancies in the totals are due to rounding effects.
- 11. The authors of MRE are not aw are of any known environmental, permitting, legal, title-related, taxation, socio-political, or marketing issues, or any other relevant issue not reported in the Technical Report, that could materially affect the Mineral Resource.

Source: InnovExplo March 2023



La Loutre graphite project close to infrastructure with great geological setting

- 50% complete Preliminary Feasibility Studies ("PFS")
- Location: Quebec, Papineau 192 km Highway to Port of Montreal – access to power, infrastructure & talent
- One large, continuous block with 76 minerals claims totaling 4,528 hectares
- Exclusive mineral rights, 1.5% NSR



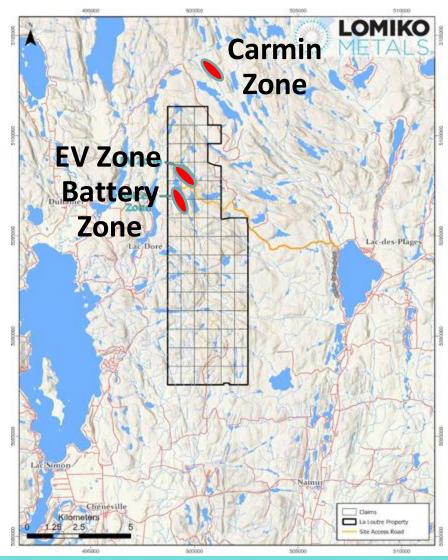
Source: NI 43-101 Technical Report and Preliminary Economic Assessment (July 2021)



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Carmin Acquisition – historic PFS





Lomiko Exploration Potential



Graphite: Carmin Acquisition

Carmin - historic PFS contiguous to La Loutre

The original historical estimate contemplated certain assumptions where the mineral resources are stated as Proven and Probable resources for Sites A and B.

Site A: total 1.55 Mt at 10.0% Cg

Proven: 1.47 Mt at 10.29% Cg (drilled at 25meters

spacing) - likely measured

Probable: 0.073 Mt at 4.10% Cg

In-situ graphite Content:155,000t

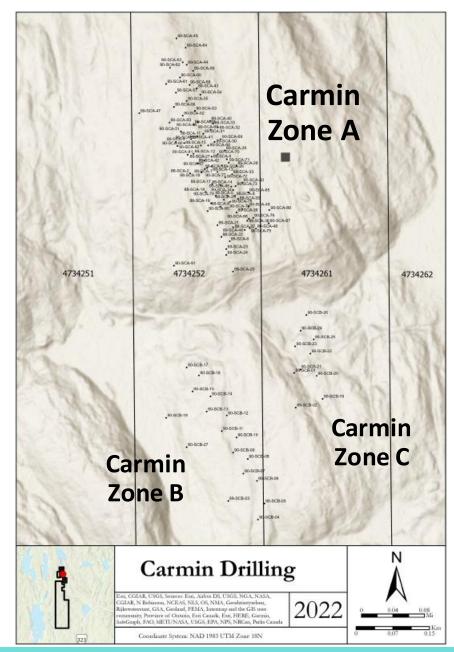
Site B: total at 0.262Mt at 13.1%Cg

Proven 123,000t at 13.1% Cg

Probable: 39,000t at 13.1% Cg

Carmin Exploration Program 2023-2024

Update historical estimate for compliant NI 43-101 Technical report





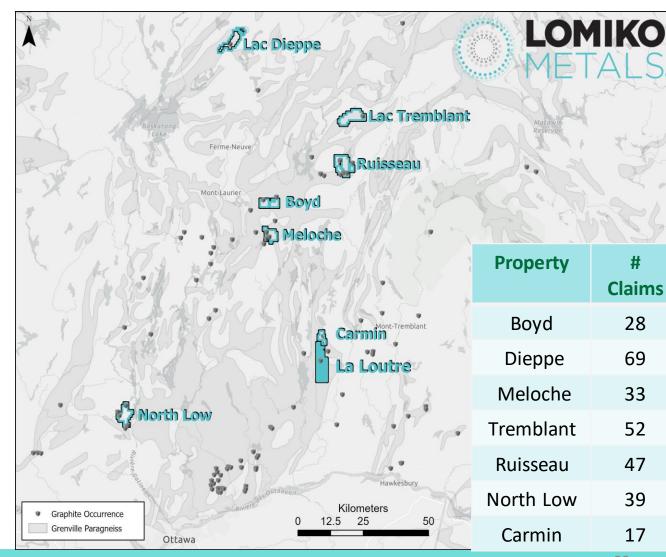
Regional exploration Most prospective graphite belt in North America

- Completed 1,518-line kilometers of heliborne geophysical surveys completed over the six Grenville graphite properties, with 55 targets identified
- 268 claims in total on 6 early-stage projects covering 15,639 hectares in the Laurentian region of Quebec and within KZA territory

Regional Exploration Program 2023-2024

 A field program is planned for 2024 to expand on the target sampling and surface mapping of the areas showing deposit grades

Block	# samples	Min %Cg	Max %Cg	Comments
Boyd	8	5.61	17.10	8/8 > 5.00% Cg
Dieppe	11	0.15	1.47	
Meloche	6	5.62	12.00	6/6 > 5.00% Cg
Ruisseau	26	0.16	22.90	19/26 > 5.00% Cg
Tremblant	6	<0.05	13.90	4/6 > 5.00% Cg





Lithium exploration on massive claim package on Nemaska lithium corridor

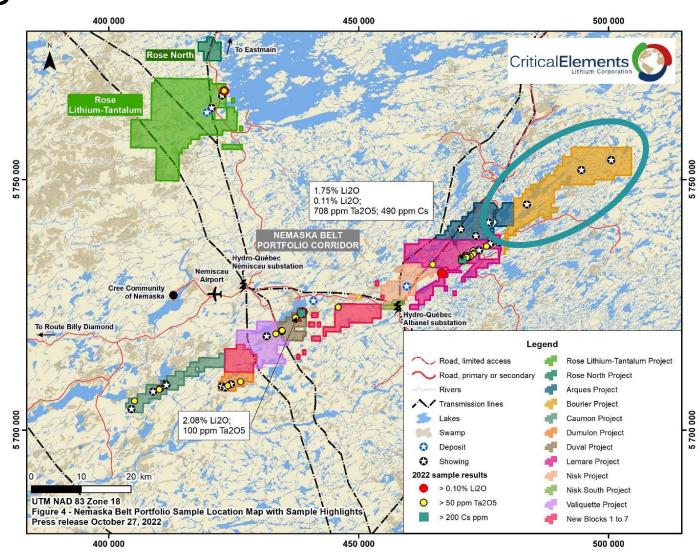




Lithium exploration on massive claim package on Nemaska lithium corridor

Bourier

- Option to earn in 70% with Critical Elements, first trigger: 49%
- 203 claims for a total ground position of 10,252.20 hectares (102 km2) that boasts other lithium deposits and known lithium mineralization
- Bourier consists of volcano-sedimentary units, sequence of quartz-rich paragneiss and late pegmatite dikes
- In early phases of soil and surface sampling



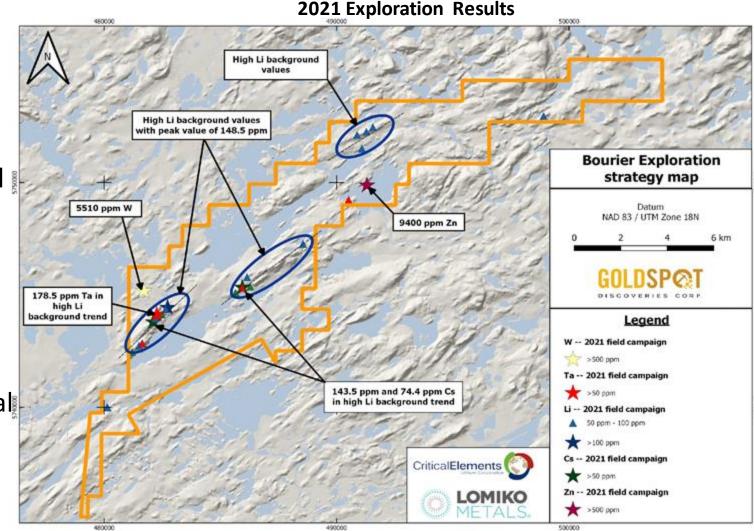


Bourier lithium project identifies exploration targets with Li anomalies

Bourier Exploration Program 2023-2024

- Focus on 2.5km long Li-Ce-Ta (lithium-Cesium-Tantalum) discovery
- Geochemical studies underway and soil sampling over entire concession
- Evaluation of targets for test drilling
- Permitting and drill program preparation

Lomiko equity: 49% ownership with Critical Elements in the next 6 to 9 months





Lomiko Advantage



Lomiko advantage:

High quality project with low capital requirements combined with high-grade graphite concentrate

Project Location

Africa/Europe

North America

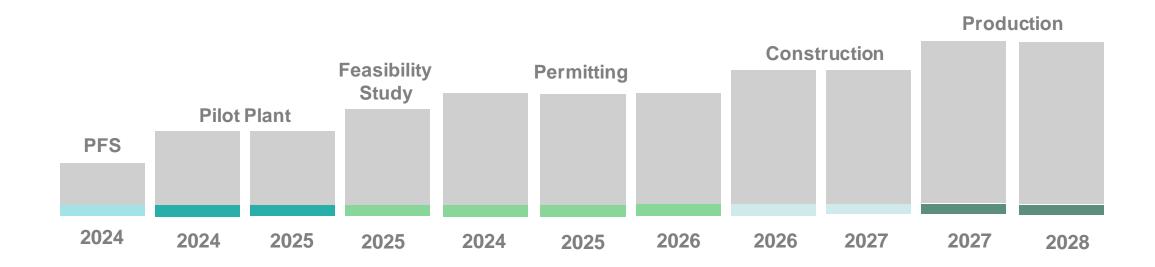


Source: Companyfilings



La Loutre graphite development milestones

* Permitting and capital dependent





Capital Structure

As at Aug 30, 2023

Shares Issued & Outstanding	382.6M
Options	24.3M
Warrants	126.2M
Share Units (PSU/RSU/DSU)	13.1M
Fully Diluted	546.2M
Management & Insider Ownership %	7.4%

Source:	Company	Data
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Market Cap	\$9.6M
Cash*	\$2.1M
Debt	\$ -
Total Enterprise Value	\$7.5M

^{*} Cash balance from interim financials - April 30, 2023



Comparable company analysis demonstrates value creation potential

August 30, 2023

Symbol	Price	Company Name	a) 0/0			Market Cap			Inferred	EV/Resource	Price/Book
			Shares O/S	Cash	TEV	(\$M)	(Mt)	(Mt)	(Mt)	(M&I)	(mrq)
TSXV:NOU	4.080	Nouveau Monde Graphite Inc	60.7	59.9	243.7	247.7	28.5	101.8	23.0	1.9x	3.0x
TSX:NEXT	1.590	NextSource Materials Inc	155.4	11.1	247.2	247.1	23.6	76.8	40.9	2.5x	6.4x
TSXV:GPH	1.240	Graphite One Inc	129.1	3.6	156.5	160.0	4.7	27.9	254.7	4.8x	2.0x
TSXV:SRG	0.780	SRG Mining Inc	116.7	10.2	80.9	91.0	6.8	39.2	4.3	1.8x	9.1x
TSXV:NGC	0.300	Northern Graphite Corp	130.0	2.7	53.5	39.0	1.9	75.6	28.7	0.7x	1.0x
TSXV:LLG	0.240	Mason Graphite Inc	141.2	8.2	25.7	33.9	19.0	46.6	17.8	0.4x	1.2x
TSXV:STS	0.550	South Star Battery Metals Corp	49.2	10.7	16.4	27.1	3.9	11.0	7.9	1.1x	2.6x
TSXV:LEM	0.140	Leading Edge Materials Corp	187.3	1.3	24.9	26.2	1.0	9.8	2.5	2.3x	1.3x
TSXV:FMS	0.250	Focus Graphite Inc	57.9	0.2	16.7	14.5	0.4	68.4	18.0	0.2x	0.4x
TSXV:LMR	0.025	Lomiko Metals Inc	382.6	2.1	7.5	9.6		64.6	17.5	0.1x	0.5x
TSXV:CCB	0.050	Canada Carbon Inc	170.0	0.2	8.3	8.5		3.3	10.5	2.5x	1.1x
TSXV:GEM	0.050	Green Battery Minerals Inc	84.9	0.5	3.8	4.2		1.8	1.5	2.2x	2.0x
		Median			25.3	30.5				1.8x	1.6x
		Median (Excl Lomiko)			25.7	33.9				1.9x	2.0x

Source: Yahoo Finance and Company data



Diverse leadership & Experienced team, board and advisors

MANAGEMENT TEAM

Belinda Labatte, CEO, CFA, MBA, ICD.D

20 years experience in capital markets. Fluent in French. Served as Chief Dev. Officer for Mandalay Resources

Gordana Slepcev, COO, P.Eng., M.Sc.

Mining Engineer served as COO for BMSI/BarCan and Anaconda Mining

Vince Osbourne, CFO, CMA, CBV

Senior finance professional with Sobeys 20 years of experience in finance

- 1 Member of Audit Committee
- 2 Member of Environment, Social and Governance Committee
- 3 Member of Corporate Compensation, Governance and Nominating Committee

BOARD OF DIRECTORS

A. Paul Gill, Executive Chair

Current positions: Executive Chair at Lomiko Metals, Chair of the board at Cobot Nation and Director for Portsmouth Gold Corp (pre-IPO)

Sagiv Shiv, Lead Independent Director and Chair of Audit Committee 1,3

Head of M&A at ACP Capital Markets based in New York City. Led the global M&A and Advisory Practice at INTL FCStone Inc. and at Merriman Capital

Eric Levy, Chair of Corporate Compensation, Governance and Nominating Committee ³

Head of Osler's Montreal Corporate Group and Chair of the Gaming Group and sits on the Osler Partnership Board. Specializes in cross-border M&A and securities law

Belinda Labatte CEO and Director 1

Dominique Dionne, Chair of ESG Committee 2,3

Chairs the board of directors of Public Relations Without Borders. Held the position of Vice President, Public Affairs and Strategic Communications at PSP Investments.

Lee Arden Lewis, Independent Director 1,2

Status member of the Mohawks of the Bay of Quinte Tyendinaga Mohawk Territory. Working with the Assembly of First Nations (AFN) and the Aboriginal Traditional Knowledge Groups

STRATEGIC ADVISORS

Normand Champigny, CEO and Director Quebec Precious Metals

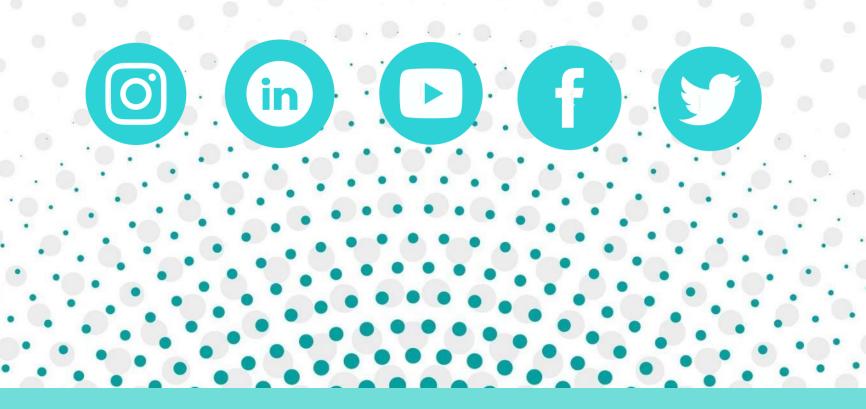
Geological engineer with extensive experience with both public and private companies, both domestically and internationally. Currently a director of Bonterra Resources

Anne Chabot, Special Advisor to the Board and Management

Strategic advisor to management on our work with First Nations engagement, supported by Lee Arden Lewis as Independent Director of the Board.
25 years of experience working with Indigenous and non-Indigenous governments, agencies and community groups



For more information info@lomiko.com Follow us @lomikometals on socials

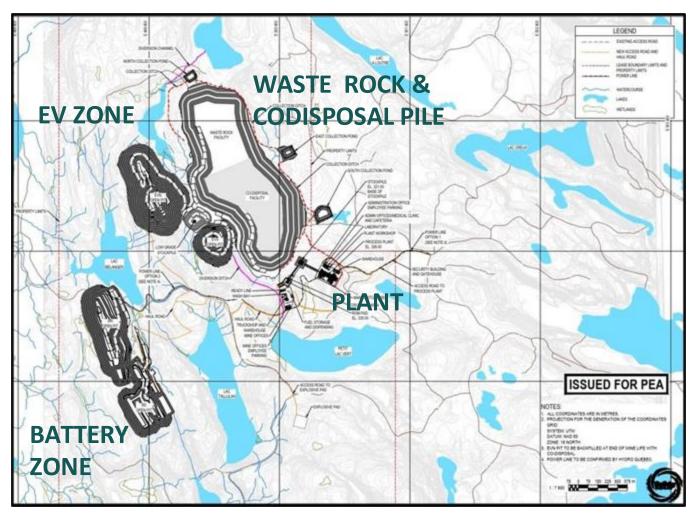




La Loutre: PEA Layout – great base to build on

Mine layout and costs – PEA

- Waste rock and tailings co-disposed
- Efficient site water management with no wet tailings
- Pits sequenced to maximize the returns starting from North – EV Pits to South – Battery Pits
- Stockpiles (low grade and ROM) for blending and Flotation Plant
- Mine truck & shovel operation
- Flotation Plant 4,000tpd
- Capex of C \$236M, AISC US \$ 406/t Cg cost



Source: NI 43-101 Technical Report and Preliminary Economic Assessment (July 2021)



North American Estimated Battery Production by State

Estimated Battery Production Capacity by 2030						
State	(Gigawatts/Year)					
Ontario, Canada	> 30 and <= 46					
Quebec, Canada	> 30 and <= 46					
Chihuahua, Mexico	Undisclosed					
Coahuila de Zaragoza, Mexico	Undisclosed					
Jalisco, Mexico	<=4					
Alabama	>4 and <= 30					
Arizona	>4 and <= 30					
California	>46 and <= 97					
Colorado	>4 and <= 30					
Florida	<=4					
Georgia	> 97 and <= 136					
Indiana	>4 and <= 30					
Kansas	>46 and <= 97					
Kentucky	> 97 and <= 136					
Massachusetts	Undisclosed					
Michigan	> 97 and <= 136					
North Carolina	>46 and <= 97					
New Jersey	Undisclosed					
Nevada	> 30 and <= 46					
New York	<=4					
Ohio	>46 and <= 97					
Pennsylvania	Undisclosed					
South Carolina	>4 and <= 30					
Tennessee	>46 and <= 97					
Texas	>4 and <= 30					

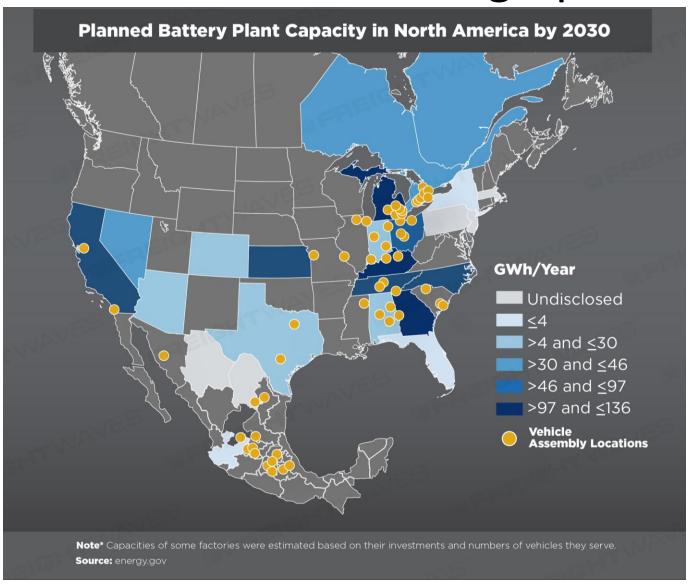
Source:DoE



Lomiko can provide 10% of North American graphite

A massive increase in battery plant capacity - most to start production from 2025-2030

- A wave of new planned electric vehicle battery plants will increase North America's battery manufacturing capacity from 55 GWh/year in 2021 to nearly 1,000 GWh/year by 2030.
- By 2030, this production capacity will support the manufacturing of roughly 10 to 13 million all-electric vehicles per year.
- Graphite sourced from North America key to USA and North American supply chain



Source: DoD



A responsible operator with track record of execution

Studies completed

- ✓ Completed 13,000m+ of drilling at La Loutre with exceptional results
- ✓ Completed NI-43-101 mineral Resource for La Loutre
- ✓ Completed 12 months of environmental baseline studies
- ✓ Completed pre-feasibility metallurgical test program optimized flowsheet
- ✓ Completed initial two cycles of the value-added metallurgical studies on La Loutre graphite
- ✓ Completed early soil and surface sampling at Bourier

Community engagement completed

- ✓ Completed multiple community engagement sessions
- ✓ Completed ECOLOGO certification process
- ✓ Developed Quebec presence with AEMQ, SOQUEM, IQ, Corem, and others

Financing for PFS studies

✓ Over \$5.0M raised to progress studies for PFS approx. 50% complete



