

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

Annual and Special Meeting December 20 2023

MINERAL EXPLORATION PROCESSES CERTIFIED FOR RESPONSIBLE ENVIRONMENT/ AND SOCIAL BEST PRACTICES. ULCOM/EL UL 2723



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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.





The Lomiko Advantage

Potential for Wealth Creation

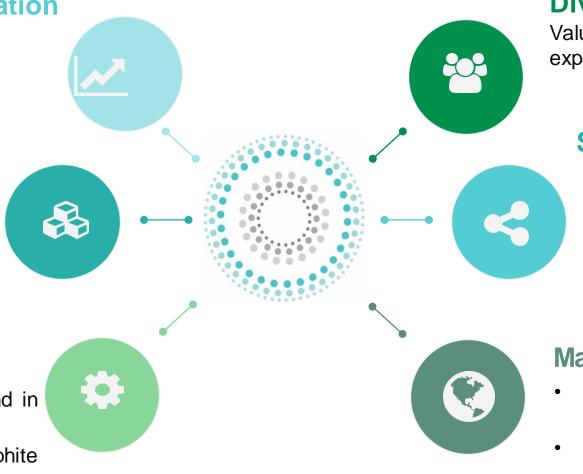
15 year life of mine (PEA) and additional claims in region

Premium Product

- 70% fines in flake distribution anode profile
- Located in stable jurisdiction with access to clean energy
- 99.9% purity achieved in current tests

Located in heart of North American graphite belt

- Can provide up to 10% of demand in North America
- High potential southernmost graphite resource



Diverse & Experienced Team

Values driven, energetic and experienced management team

Strong Partnership Focus

- Community focused, council established
- Partners in Canada, Quebec and the USA

Massive Exploration Upside

- Creating a strategic portfolio of graphite properties
- Funded for continued graphite exploration in 2024
- Quebec lithium project earn in



Lomiko – a responsible developer of choice A leader in 2023

- ✓ Increase of 184% in tonnage for the Indicated Mineral Resource category in updated 2023 MRE the largest southernmost graphite resource in Canada
- Met with many local community members and communicated with mayors throughout 2023 new council of municipal representatives to be established in 2024
- Demonstrated high purity and strong metallurgical profile of La Loutre natural flake graphite –PFS level flotation testing achieved 94.7% recovery and 99.1% Cg reconciled grade for a flotation con.
 Produced continuously anode material / SPG purified to the battery grade purity of 99.99% Cg.
- Secured up to \$500,000 in funding from federal and provincial agencies to continue advancing prefeasibility level battery trials with its La Loutre natural flake graphite concentrate
- Closed on the acquisition of Carmin, which provides additional historical resources and site planning flexibility for La Loutre project
- Completed a field program in the region and across our claims with 10 new high-grade graphite showing discovered
- ✓ Bourier 49% ownership achieved



Partner focused



Innovation en traitement de minerais Innovation in mineral processing



International







Canada

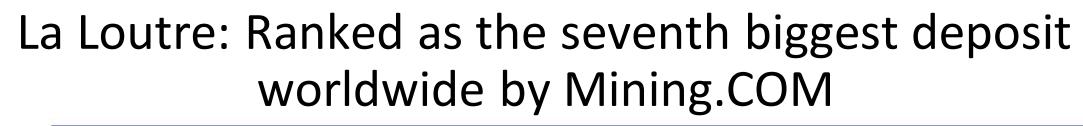
National Research Council Canada

Conseil national de recherches Canada



PRODUCT CERTIFIED FOR REDUCED ENVIRONMENTAL IMPACT. VIEW SPECIFIC ATTRIBUTES EVALUATED: UL.COM/EL UL XXXX





	Property	Country	Owner	Development Status	M+I Resources (mt)	Grade (%)	Contained Graphite (mt)
1.	Balama/Nicanda Hill	Mozambique	Triton Minerals Ltd	Stalled (previously Feasibility)	369	11.3	41.7
2.	Sarytogan	Kazakhstan	Sarytogan Graphite Limited	Prefeasibility	126	28.8	36.3
3.	Lac Gueret (Uatnan)	Canada	Mason Resources Inc	PEA	66	17.19	11.3
4.	Mahenge	Tanzania	Black Rock Mining Ltd	Permitting	116	8.02	9.3
5.	Siviour	Australia	Renascor Resources Limited	Permitting	73	7.14	5.2
6.	Epanko	Tanzania	EcoGraf Ltd	Permitting	63	7.6	4.8
7.	La Loutre	Canada	Lomiko Metals Inc	Prefeasibility	65	4.5	2.9
8.	Malingunde	Malawi	NGX Limited	Prefeasibility	37	7.37	2.7
9.	Balama Central	Mozambique	Tirupa Graphite plc	Permitting	27	10.24	2.7
10.	Bunyu	Tanzania	Volt Resources	Feasibility	40	5.64	2.3

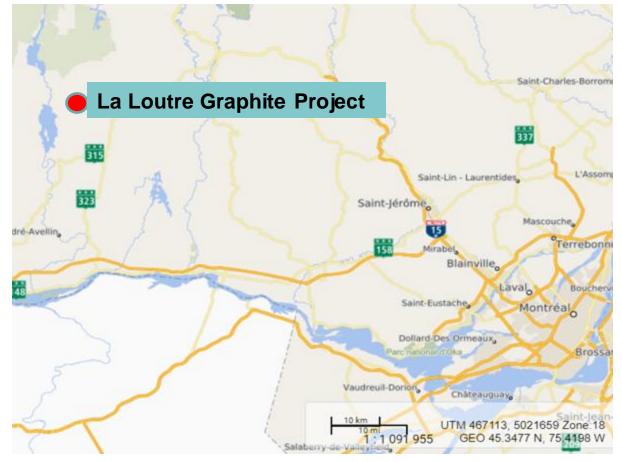




La Loutre graphite project close to infrastructure with great geological setting

50% complete Preliminary Feasibility Studies ("PFS") Phase I complete with Phase II subject to financing and advancing

To PFS for La Loutre	Cost (\$M)
Mining Plan	\$0.3
Mining Geotechnical	\$0.9
Power and Access Road Study	\$0.2
Infrastructure Geotechnical & Waste Disposal Facility	\$0.7
Environmental, Hydrogeology & Geochemical	\$1.3
Pre-Feasibility Study Budget	\$1.4
Sum Total + 15% Contingency	\$4.8 \$5.5

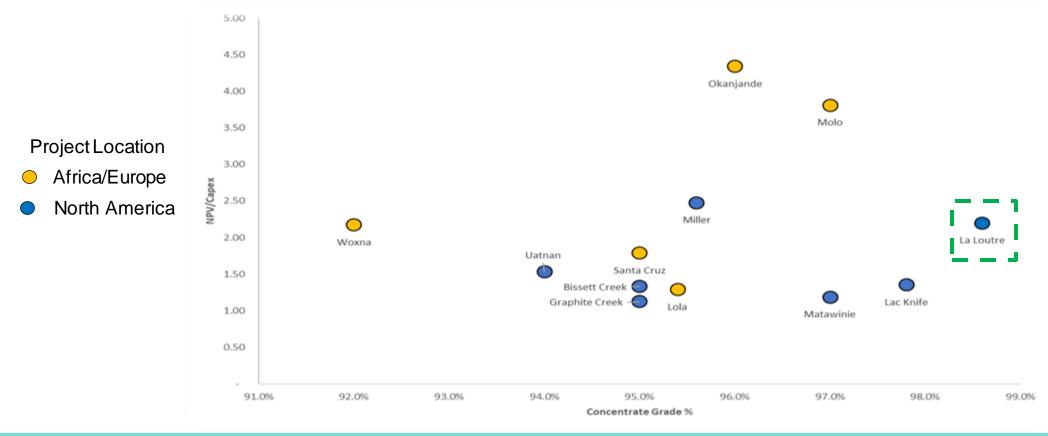


Source: NI 43-101 Technical Report and Preliminary Economic Assessment (July 2021)



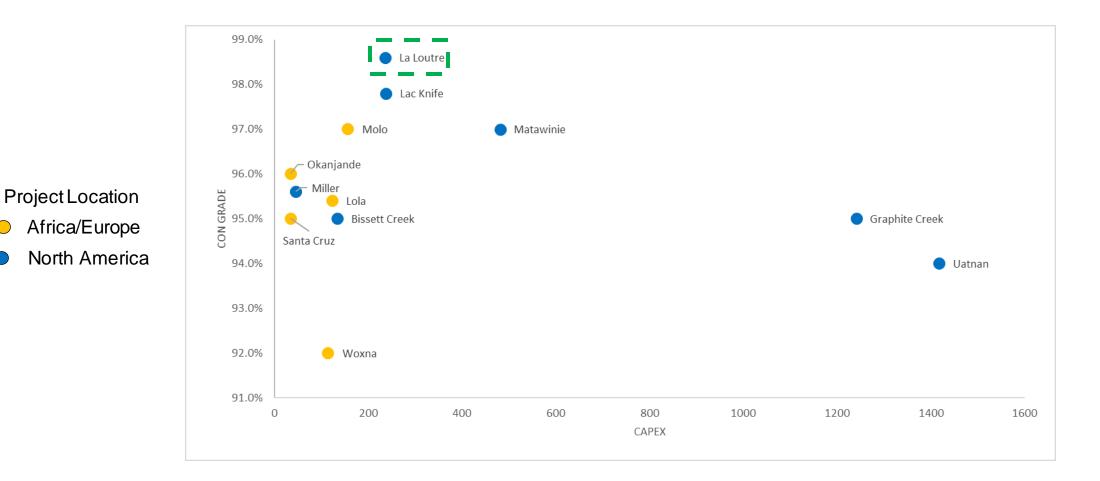
Concentrate Grade and NPV/Capex Multiple: Competitive economics

- Updating the PEA for USD \$1,500/t basket graphite selling price highlights upside in project returns
- The La Loutre project combines high-grade concentrate with a post-tax IRR of 43%, post-tax NPV of \$520M, and an NPV/Capex multiple of 2.2x



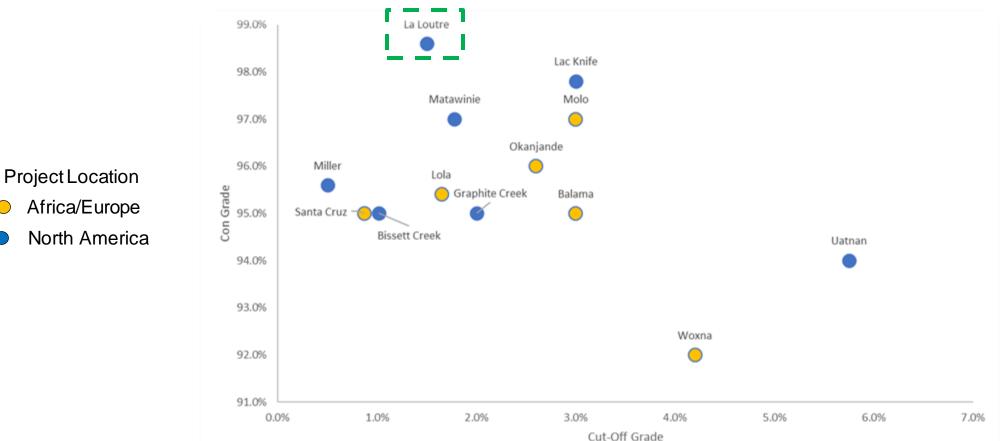
High Quality project with low capital requirements combined with High-Grade Graphite Concentrate

LOMIKO





Cut-Off Grade & Graphite Con Grade Lower cost and higher recovery

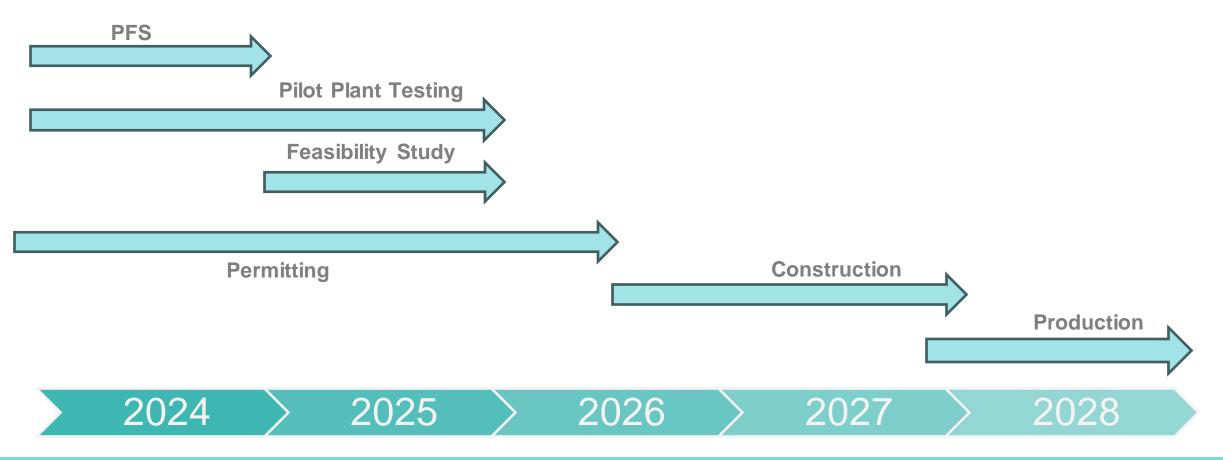






La Loutre graphite development milestones

- Permitting and capital dependent
- Exceptional project that is scalable, closest to US EV battery highway with sub competitive capex





Lomiko – Key Investor Takeaways Operator of Choice in 2024

- China graphite export restrictions now in place and positions North American graphite developers such as Lomiko well as a valued source of future supply in a market now in shortage
- ✓ COP 28 in 30 years of discussions on climate change, agreement reached to triple the amount of renewable energy, like wind and solar power, installed around the world by 2030
- ✓ Massive expected growth in demand of 30% to 40% per year and 8x multiple of supply by 2040
- ✓ US Fed forecasts 3 rate cuts next year which will loosen up capital for investment
- ✓ Lomiko actively engaged in grant applications
- ✓ Important macro factors in our favour: new Hydro strategy and Canada wide phase out of ICE vehicles by 2035
- Continued work on battery prototyping and met studies with Quebec partners including Polaris in the USA
- ✓ Ongoing engagement with community in council of 5 municipalities and KZ
- ✓ Committed investors and investor outreach for funding in 2024



Questions? For more information <u>info@lomiko.com</u> Follow us @lomikometals on socials

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Lomiko 2024: Preserve - Adapt - Build

- ✓ Lomiko has augmented the quality of its assets in last 24 months
- ✓ The Company's strategy for 2024 has three pillars upon which management and the board will execute

PRESERVE

- Preserve the quality and potential of the assets
- No encumbrances on the asset
- Continue met & battery studies with Corem and NRC

ADAPT

- Adapt to market conditions
- Maintain open communications with investors, partners and stakeholders for fully financing PFS

BUILD

- Build and scale the company with strategic partners
- Seek out grant opportunities
- PFS needs responsible capital solution
- Build relationships with community and First Nation KZ based on mutual respect and interests

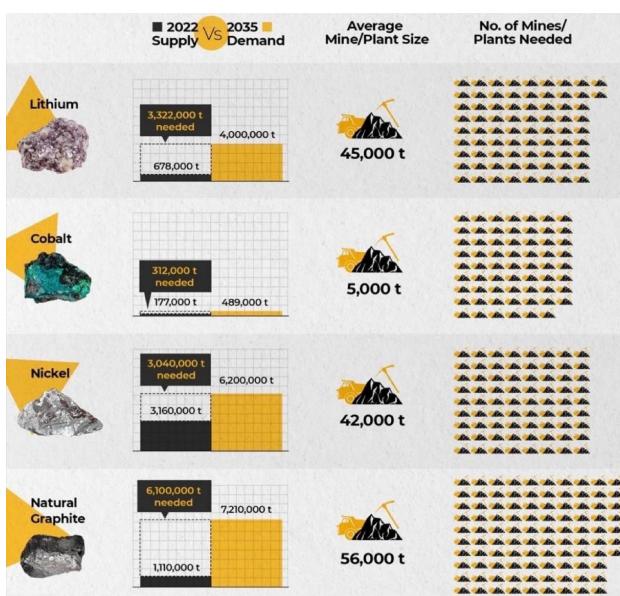


Market for Graphite

97 graphite mines needed to fuel the EV revolution

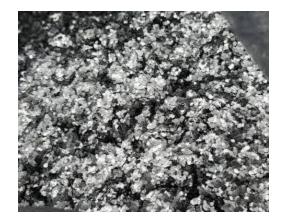
How many mines do we need?

- Benchmark forecasts how many mines need to be built in the short time frame to keep up with exceptional volumes of demand needed for key raw materials expected by 2035
- La Loutre is positioning itself for success as a responsible source of graphite in Southern Quebec
- Graphite shortage at 97 new mines needed is forecasted to surpass shortage in Lithium (74), Cobalt (62) and Nickel (72) mines





- Restrictions set for December 2023
- China has declared its intention to implement export permits for certain graphite products to safeguard national security. This move is part of China's broader strategy to regulate the supply of critical minerals in response to its own high demand forecast and scarcity of supply
- China is the world's top graphite producer and exporter and refines more than 90% of the world's graphite
- Global reactions:
 - The European Union is weighing levying tariffs on Chinese-made EVs
 - The U.S. government is curbing access to China for semiconductors, including stopping sales of more advanced artificial intelligence chips





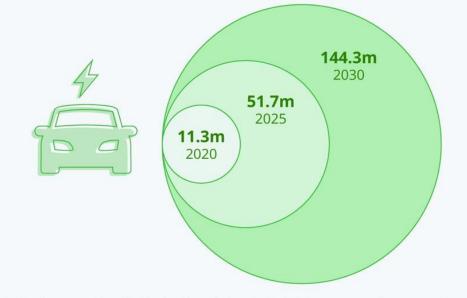
The EV market is in high growth mode

- International Energy Agency (IEA): the number of electric cars, vans, trucks and buses on roads is forecast to grow from **11m this year to 145m** by the end of the decade
- China accounts for 50% of all EVs on the road today (13m of 26m globally)
- The IEA expects that around 18% of all cars worldwide in 2023 will be electric — up from 2.5% in 2019

The surging EV market is expected to wipe out demand for millions of barrels of oil. By 2030, existing policies could result in 2m barrels of petrol and diesel fewer per day with the equivalent of up to 120mt of carbon dioxide saved (Forbes)

Electric Vehicle Market to Hit Ludicrous Mode

Projected number of electric vehicles driving globally up to 2030*



* Includes battery electric, fuel cell and plug-in hybrid cars, vans, buses and trucks. Source: International Energy Agency

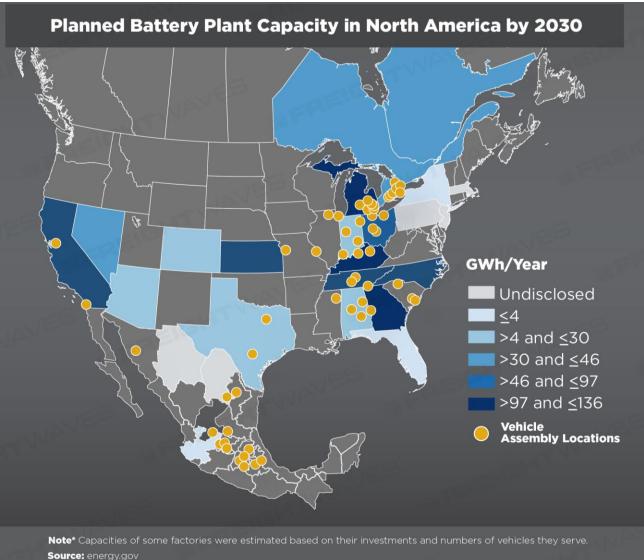




Lomiko can provide 10% of North American graphite

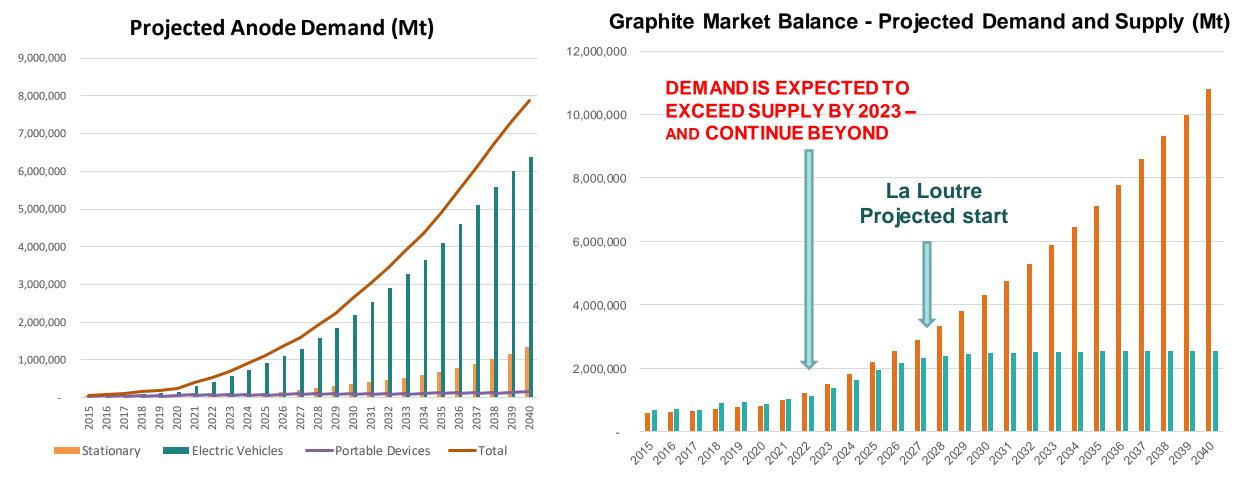
A massive increase in battery plant capacity most to start production from 2025-2030

- 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 manufacturing roughly 10 to 13 million all-electric vehicles per year.
- Graphite sourced from North America is key to USA and North American supply chain





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



Total Demand Total Supply



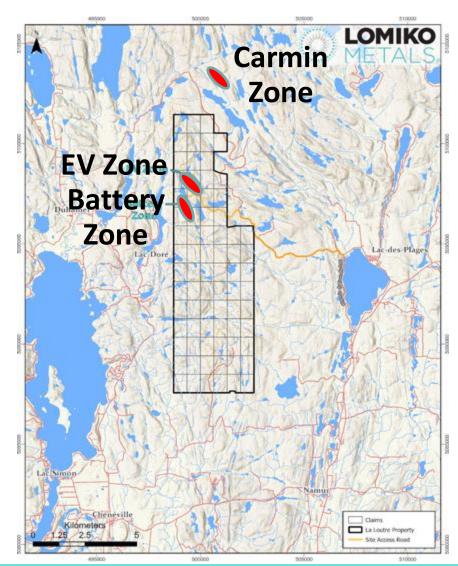
La Loutre Graphite Project



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

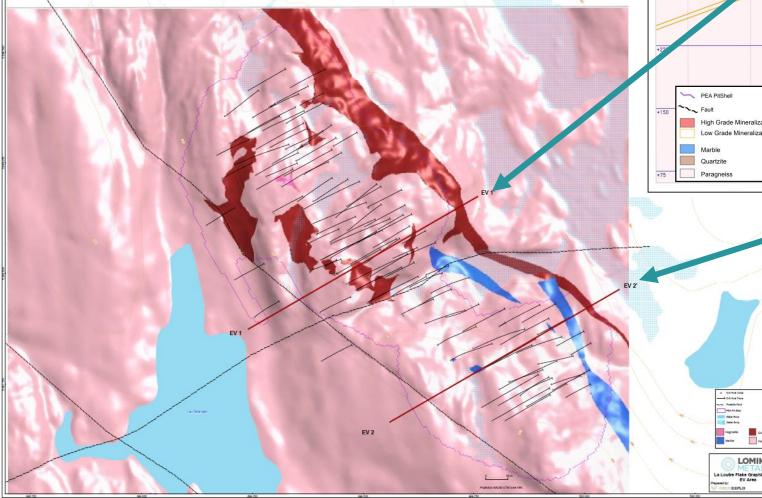
Carmin Acquisition – historic PFS

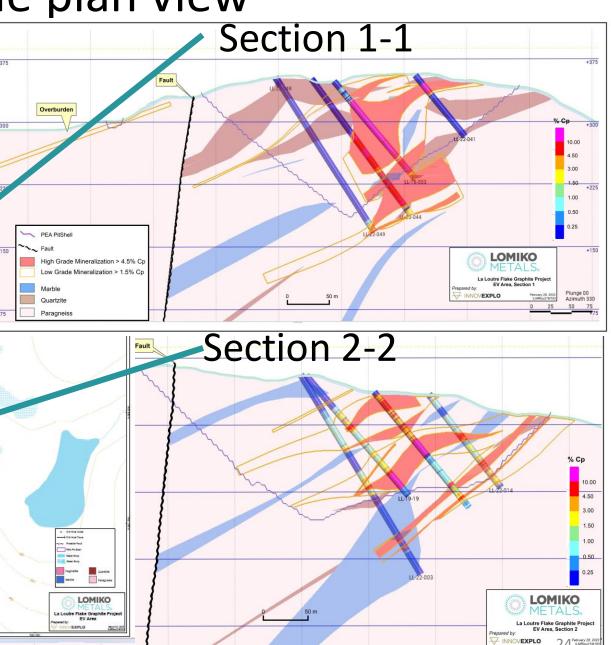




La Loutre EV Zone plan view

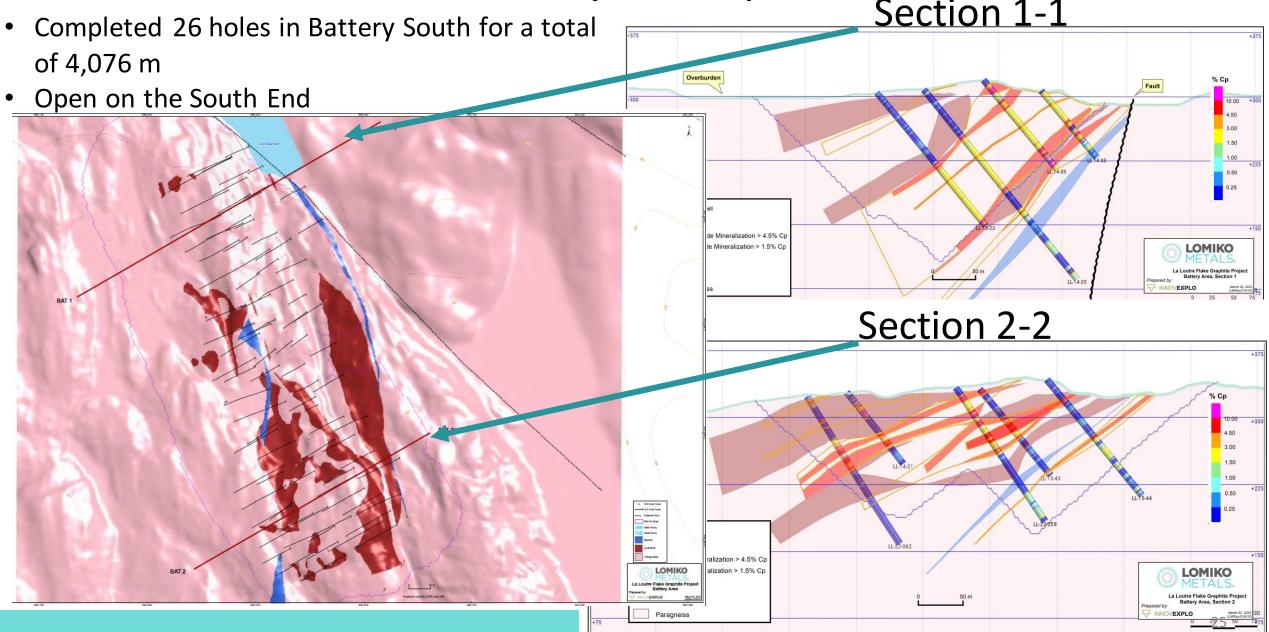
- Completed 53 drill holes or 9,025 meters
- South-east and north-east end of the EV Zone remain open to the south and east







La Loutre Battery Zone plan view Section 1-1





Achieving 184% Increase in Tonnage Indicated Mineral Resources

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

		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

Source: InnovExplo March 2023

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 w as 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 w as 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 cost setc.).

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 know n 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 Estimate.



La Loutre Graphite 70% fines

- Developed and optimized PFS level flotation plant flowsheet -LCT testing achieved 94.7% recovery and 98.6% - 99.1% Cg reconciled grade
- La Loutre flake distribution is 70% fines suitable for anode market **37% growth year over year!**
- -100 mesh is used most commonly in SPG (spherical graphite) as a precursor for battery production



33% of +100 mesh	Size (Mesh)	Size (µm)	Mass (%)	C(t) (%)	C(t) Distribution (%)
+	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
(T)	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
	-325	-45	12.7	99.1	12.7
	Final Concentrate		100	99.1	100

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Size Fraction Analysis of Combined Concentrate

of LCT – PFS Level MetPro Report Feb 2023



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 1,100 kg rock sample to produce flotation concentrate
- Purify flotation concentrate on a bigger scale to confirm lab-scale testing results
- 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





Battery formats tested: coin cell and pouch



Lomiko Exploration Potential



Graphite: Carmin Acquisition

Carmin - historic PFS contiguous to La Loutre

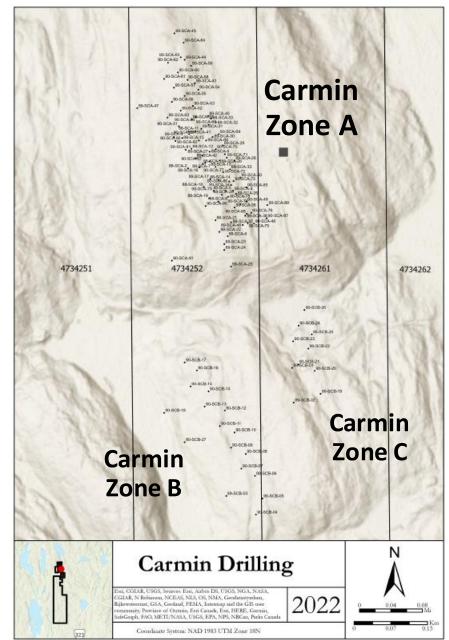
The original historical estimate contemplated certain assumptions where the mineral resources are stated as Proven and Probable resources for Sites A and B.

- 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 2024

Additional sampling and update historical estimate for compliant NI 43-101 Technical report



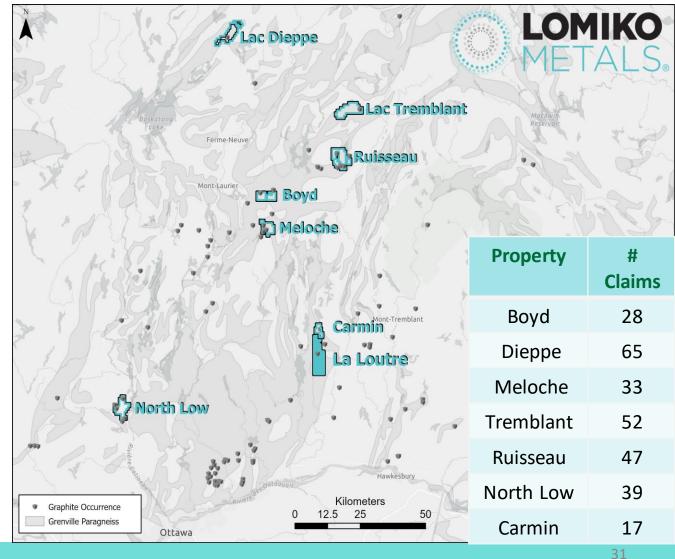
Regional exploration in Grenville belt Most prospective graphite belt in North America

- Completed 1,518-line kilometers of heliborne geophysical surveys completed over the six graphite properties, with 55 targets identified
- 264 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 2024

• 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





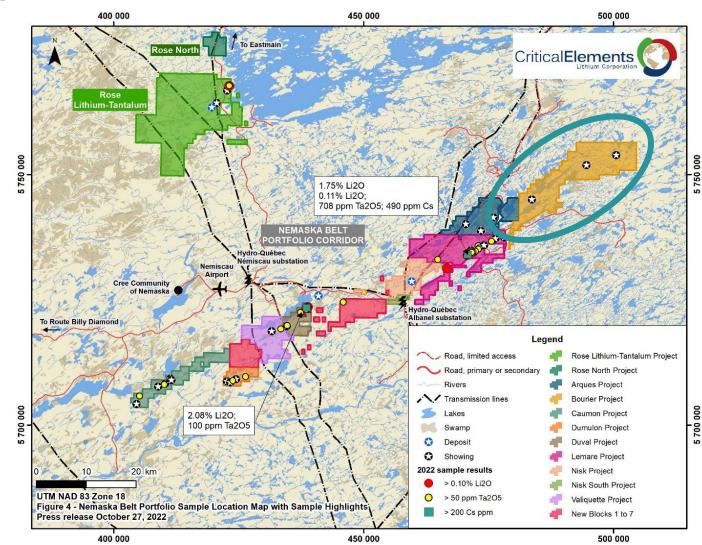
Lithium exploration on massive claim package on Nemaska lithium corridor



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 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

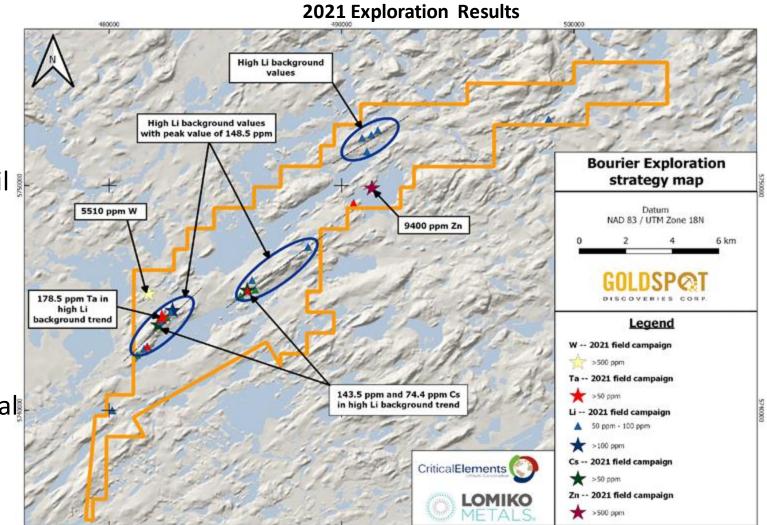


Bourier lithium project identifies exploration targets with Li anomalies

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

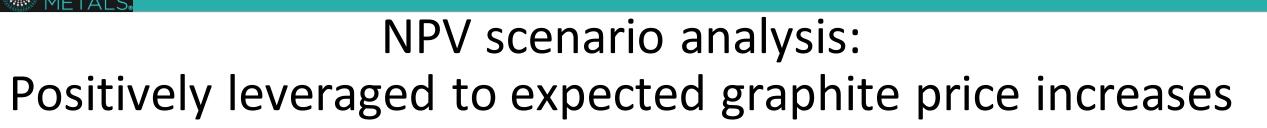
Lomiko equity: 49% ownership with Critical Elements in the next 1 to 3 months



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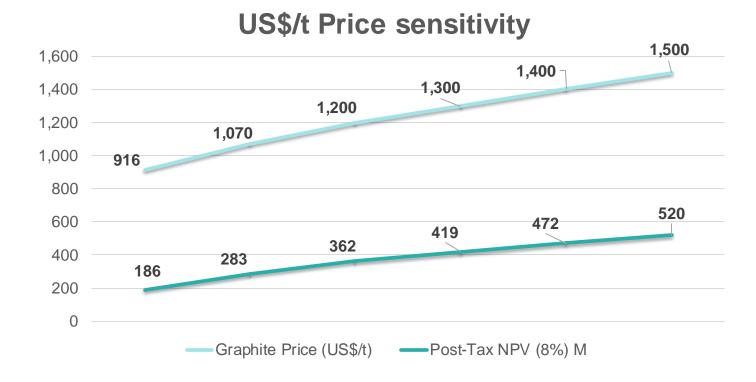


Lomiko Advantage



• PEA used a graphite concentrate selling price of US \$916/t

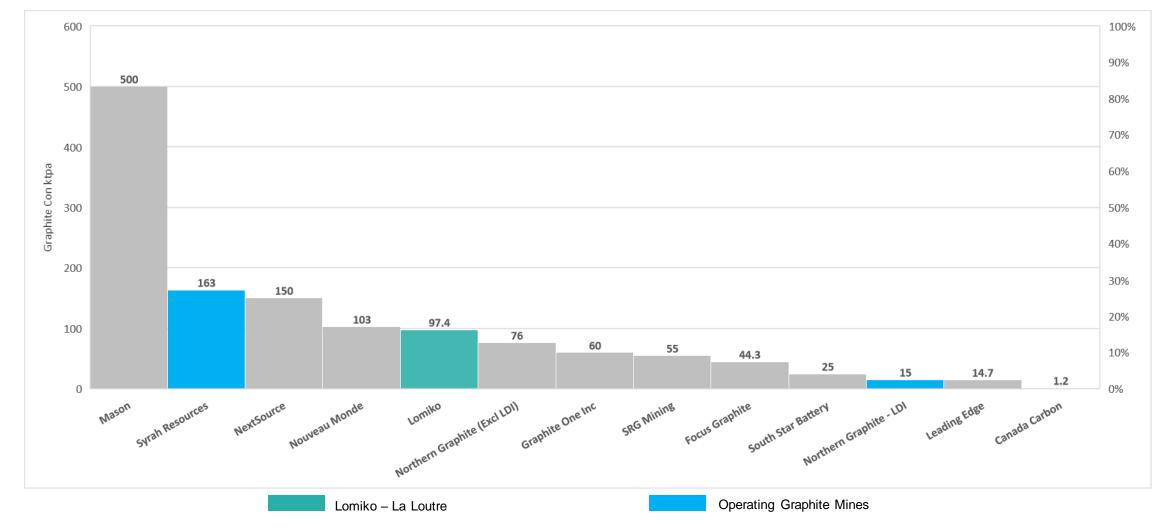
- The current forecast selling price for +94%Cg is US \$1,070/t of graphite concentrate (source: Benchmark / Lone Star)
- Current public information by graphite producers indicates a selling price of over US \$1,500/t



Graphite Price (US\$/t)	Post-Tax NPV (8%)	Post-Tax IRR %	Payback (yrs.)
\$916	\$186M	21.5%	4.2
\$1,070	\$283M	27.8%	3.4
\$1,200	\$362M	33.0%	2.9
\$1,300	\$419M	36.7%	2.6
\$1,400	\$472M	40.1%	2.4
\$1,500	\$520M	43.4%	2.2

Source: NI 43-101 Technical Report and Preliminary Economic Assessment (July 2021) **(\$916, \$1,070, \$1,200, \$1,300, \$1,400 & \$1,500)**

PEA: The La Loutre project delivers 97.4kt/year over a 15-year mine life – PEA only, expansion possible



LOMIKO



Capital Structure

As at Dec 6, 2023

Shares Issued & Outstanding	383.4M
Options	24.3M
Warrants	126.3M
Share Units (PSU/RSU/DSU)	12.2M
Fully Diluted	546.3M
Management & Insider Ownership %	7.6%

Market Cap	\$7.7M
Cash*	\$2.1M
Debt	\$ -
Total Enterprise Value	\$5.6M

* Cash balance from audited annual financials - July 31, 2023

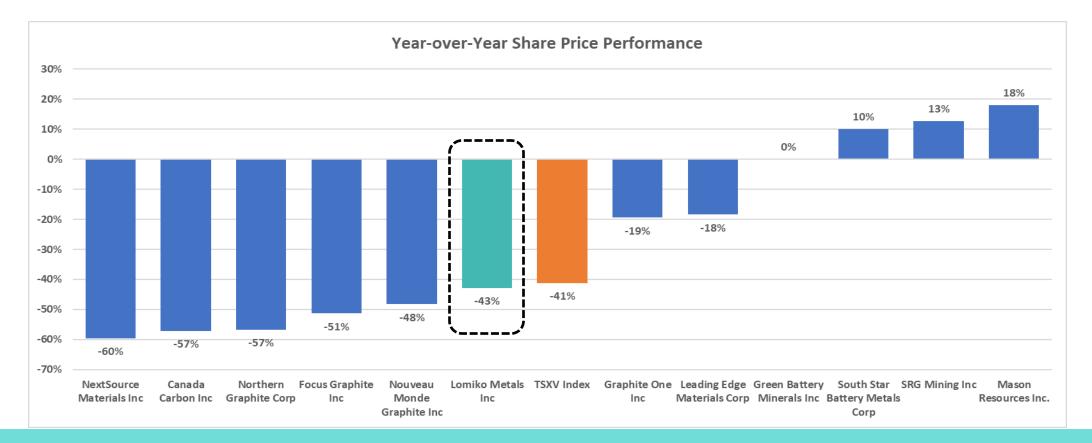
Source: Company Data



Lomiko share price performance – an opportunity for improvement from a strong asset base

December 6, 2023

- During the year, Indicated Mineral Resources increased by 184%
- Median graphite peer group share price declined by 31% compared to last year





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

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 Director¹

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

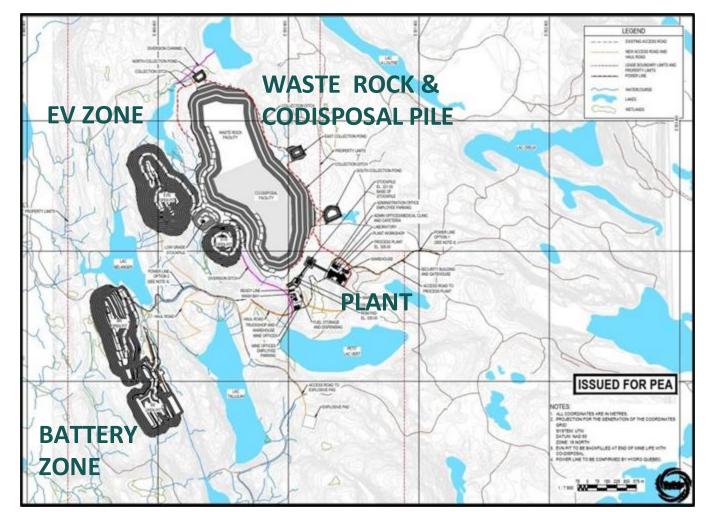
Strategic advisor to management on our work with First Nations engagement, supported by Lee Arden Lewis as Independent Director of the Board. 25 years of experience working with Indigenous and non-Indigenous governments, agencies and community groups



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)

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







Corporate budget requirements for La Loutre

The regional exploration program and Bourier work is being funded with Canadian Flow-Through financing

COMPLETED

Phase 1 at La Loutre	Cost (\$M)	
Resource Drilling	\$3.5	
Resource Update	\$0.2	
Metallurgy	\$0.6	
Environmental	\$0.7	
Total	\$5.0	

PLANNED

To PFS for La Loutre	Cost (\$M)
Mining Plan	\$0.3
Mining Geotechnical	\$0.9
Power and Access Road Study	\$0.2
Infrastructure Geotechnical & Waste Disposal Facility	\$0.7
Environmental, Hydrogeology & Geochemical	\$1.3
Pre-Feasibility Study Budget	\$1.4
Sum Total + 15% Contingency	\$4.8 \$5.5