

Developing a pipeline of graphite and lithium properties in Quebec for a North American climate success story

TSXV: LMR

OTC: LMRMF

Frankfurt: DH8C

December 2022





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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 in order to develop a sustainable approach on our path to critical minerals 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 Nations territory. The KZA First Nations are part of the Algonquin Nation and the KZA 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.



2022 Operational milestones

PFS studies and corporate development

- ✓ Completed 13,000m+ of drilling at La Loutre with exceptional results
- ✓ Acquired 6 graphite properties in Grenville province
- ✓ Initiated early soil and surface sampling at Bourier
- ✓ Completed 12 months of environmental baseline studies
- ✓ Completed initial value-added metallurgical studies on La Loutre graphite

Lomiko vision

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





Investor focus

✓ Over \$4m raised to progress studies for PFS approx. 50% complete



2022 and 2023 momentum

2023 looks good: Dramatic increase in attention to battery metals supply chain

- ✓ Over \$3bn available in Canadian funding for critical minerals strategy grants to be made available in 2023
- ✓ Determination that Canadian minerals are 'domestic' in USA and that Lomiko qualifies for DOD funding application
- ✓ Dramatic increase in spending: 2x investment into Electric Vehicles forecast by automakers, nearly \$1.2 trillion in 2023, according to Reuters
- ✓ Increase in demand for natural flake graphite to 40% year on year, according to Fastmarkets
- ✓ Canada rules! Canada climbs to 2nd place as best place to develop renewable energy, in front of the USA

The energy transition opportunity continues to be the most important Canadian economic growth opportunity in generations



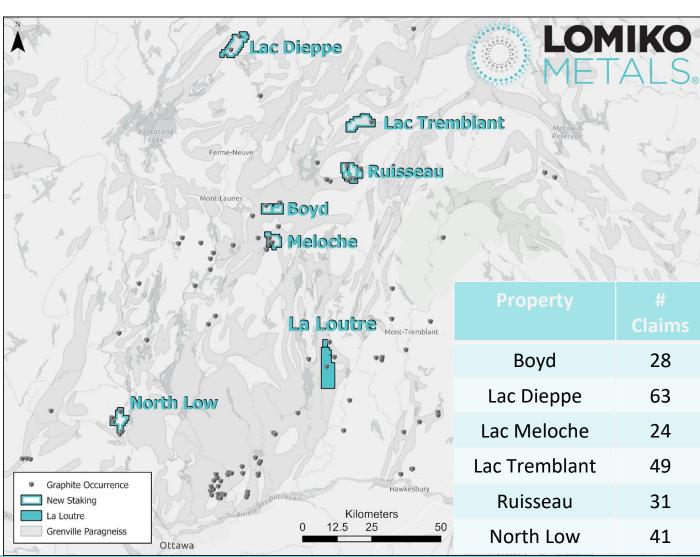
Critical Minerals Map of Quebec-new land package





Lomiko new natural flake graphite claims: 14,255 hectares of mineral claims

- 236 claims in total, on 6 projects in the Laurentian region of Quebec and within KZA territory
- Within a 100 km radius of the Company's flagship La Loutre graphite project
- Large disseminated flake graphite mineralization occurs at a number of places in the Grenville Province metamorphic belt
- Next steps: Review EM survey results

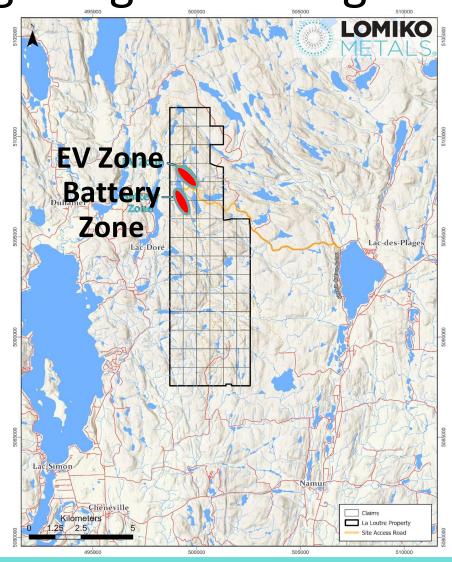




La Loutre graphite project close to infrastructure with great geological setting

La Loutre

- Stage of development: Preliminary Economic Assessment ("PEA")
- Starting Preliminary Feasibility Studies
- Concession size: 4,528 ha, 76 mineral claims
- Location: Quebec, Papineau 192 km Highway to Port of Montreal – access to power, infrastructure & talent



Source: Company Data



La Loutre Resource Estimate: focus on conversion

La Loutre Resource Estimate (Effective Date: May 14, 2021) - PEA

	Cut-off	EV De	posit	Battery Deposit		Total			
Class	(%)	Run-of-Mine	In-Situ Grade	Run-of- Mine	In-Situ Grade	Run-of-Mine	In-Situ Grade	Graphite	
		Tonnage (kt)	Graphite (%)	Tonnage (kt)	Graphite (%)	Tonnage (kt)	Graphite (%)	(kt)	
	1	8,321	6.38	15,889	3.32	24,210	4.37	1,057.90	
	1.5	8,158	6.48	15,007	3.44	23,165	4.51	1,044.30	
Indicated	2	7,792	6.7	12,622	3.75	20,414	4.88	995.5	
	3	6,768	7.33	4,529	6.16	11,297	6.86	774.6	
	5	4,443	9.17	2,394	8.27	6,837	8.85	605.4	
	1	13,114	5.71	38,273	3.1	51,387	3.77	1,936.40	
	1.5	12,829	5.81	33,992	3.33	46,821	4.01	1,877.90	
Inferred	2	12,273	5.99	27,775	3.69	40,048	4.39	1,759.50	
	3	9,645	6.92	10,311	5.92	19,956	6.4	1,277.60	
	5	5,833	8.99	5,687	7.58	11,520	8.29	955.2	

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

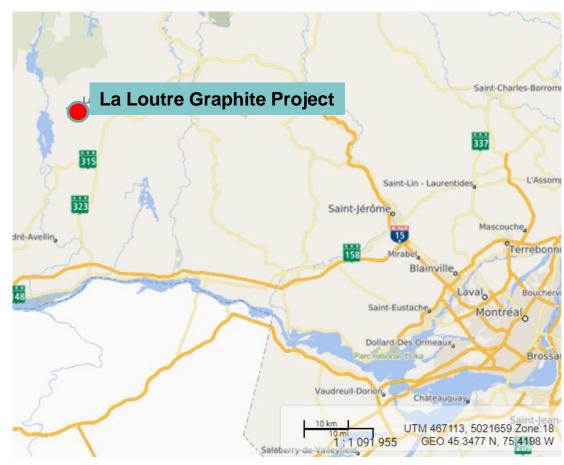
Notes:

- 1. Resources are reported using the 2014 CIM Definition Standards and were estimated using the 2019 CIM Best Practices Guidelines.
- 2. Mineral resources that are not mineral reserves do not have demonstrated economic viability. This report was prepared as National Instrument 43-101 Technical Report for Lomiko Metals Inc. by Ausenco Engineering Canada Inc., Hemmera Envirochem Inc., Moose Mountain Technical Services, and Metpro Management Inc., collectively the Report Authors.
- 3. The mineral resource has been confined by a pit that reflects "reasonable prospects of eventual economic extraction" using the following assumptions: exchange rate CAD:USD=1.33; weighted average price of graphite of US\$890/t; 100% payable; off-site costs including transportation and insurance of C\$39.42/t; a 1.0% NSR royalty; and metallurgical recoveries of 95%.
- 4. Pit slope angles are 45° below overburden, 20° in overburden.
- 5. The specific gravity of the deposit is 2.86 in unmineralized and low-grade zones and 2.78 in high-grade zones (within solids above a 4% graphite grade).



La Loutre: PEA establishes a critical path ahead for improvements and project de-risking

- 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
- Capex of C \$236M, AISC US \$ 406/t Cg cost
- Exclusive mineral rights, 1.5% NSR
- Open circuit variability flotation tests produced concentrate grades between 97.6% and 98.6% Cg.



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

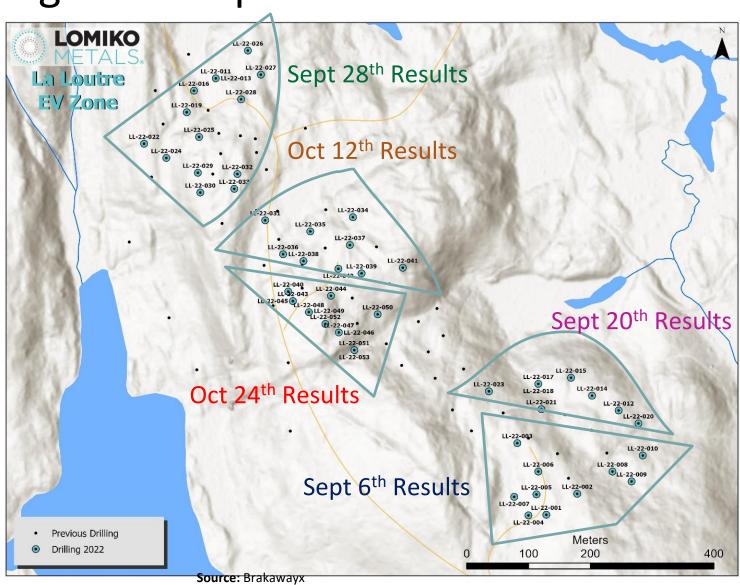


2022 summer drilling program completed – Actual drilled

Completed summer Infill and extension drilling along the strike of the deposits to confirm ore body shape, quality and extents for a total of **13,113 metres in 79 holes**.

Focus on higher grade EV Zone

- Completed 53 drill holes in EV Zone for a total of 9,025 meters
- South-east and north-east end of the EV
 Zone remain open to the south and east
- Discovered new mineralization in EV
 zone below existing modelled paragneiss
 mineralization in marble 9-10 meters
 thick
- Potential to add inferred resources



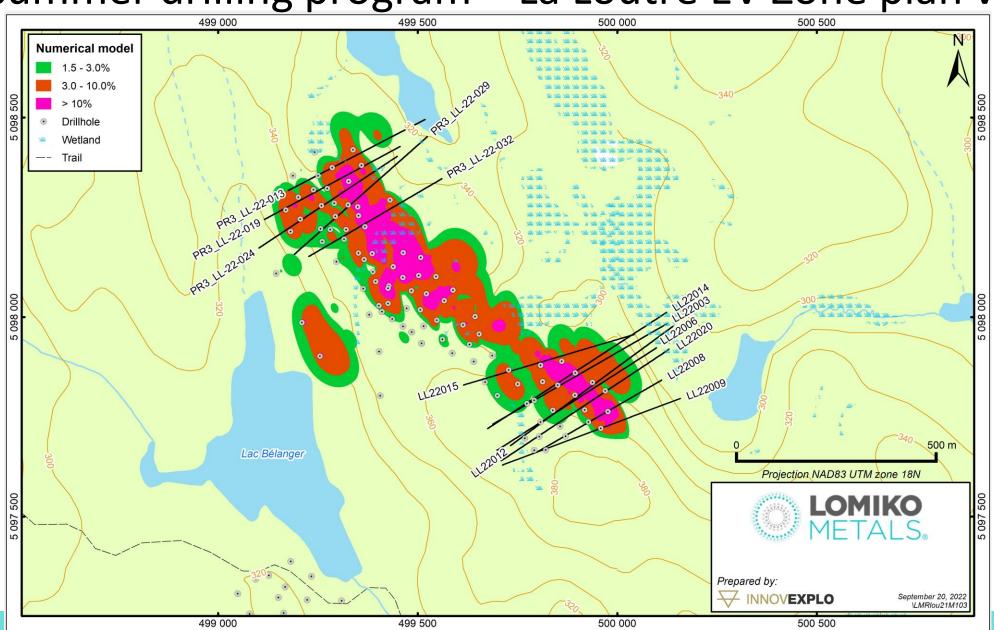


Exploration Drilling Summary – La Loutre – press released

- Total holes drilled EV Zone July 31st, 2022 53 holes drilled 9,025 meters
- Assays received for 53 holes and results published with excellent widths and grades encountered including:
 - Wide intervals of near surface, high-grade flake graphite mineralization including **11.64% Cg** over **42.0m** from 7.0 to 49.0m in hole LL-22-**018** including 36m wide mineralization at 13.44% Cg.
 - Result of 8.73% Cg over 110.5m from 81.5 to 192.0m in hole LL-22-019 including 69.0m at 12.09% Cg from 102.5 to 171.5m
 - Up to 13.84% Cg over 42.0m from 169.0 to 211.0 in hole LL-22-031.
 - Several wide intervals of near-surface, high-grade flake graphite mineralization including 11.02% Cg over 120.00m from 32.0 to 152.0m in hole LL-22-032 including 48.0m at 15.58% Cg from 50.0 to 98.0m.
 - Up to 8.14% Cg over 148.5m from 6.0 to 154.5m in hole LL-22-035 including 15.09% Cg over 60.0m from 13.5m to 73.5m.
 - Hole LL-22-042 encountered 8.68% Cg over 94.5m from 4.5 to 99.0m and 6.64% Cg over 94.4m from 121.0 to 215.4m
 - Up to **7.60% Cg over 119.8m** from 81.2 to 201m in hole LL-22-**044** including 10.06% Cg over 40.5m from 81.2m to 121.7m and 10.31% Cg over 19.5m from 166.7 to 186.2m
 - Hole LL-22-**050** encountered **5.07% Cg over 123.0m** from 13.0 to 136.0m including 14.5% Cg over 22.5m from 14.5 to 37.0m.



2022 summer drilling program – La Loutre EV Zone plan view

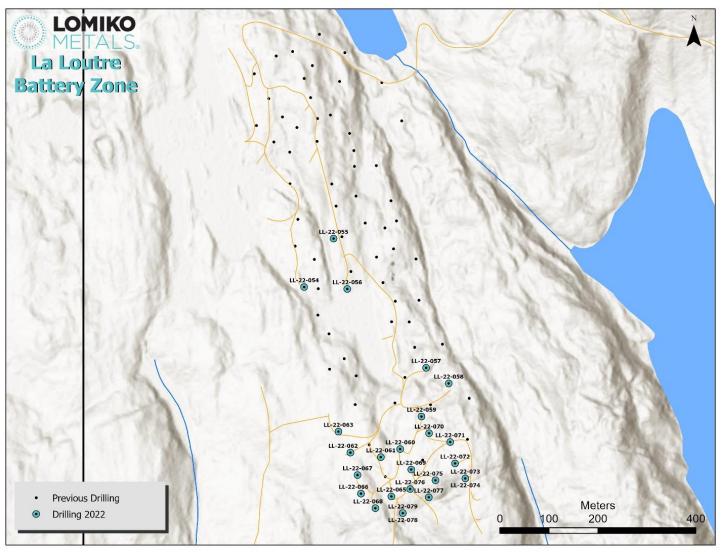




2022 summer drilling program completed – Battery Zone

Finished drill program at Battery Zone

- Completed 26 holes in Battery South for a total of 4,076 meters
- First 6 holes highlights
- 4.49% Cg over 144.3m in hole LL-22-054 including 8.43% Cg over 55.5m
- Holes 7-16 highlights
- **6.00**% Cg over 45.0m in hole LL-22-062 including **7.41**% Cg over 33.0m
- Awaiting assay results for the last 10 holes



Source: BreakawayX



La Loutre metallurgical program Next steps

Next steps:

- Metallurgical testing being completed by SGS in Lakefield on over 800kg of the core
- Further testing for battery-grade material (micronization, spheroidization, purification and coating to produce CSPG)

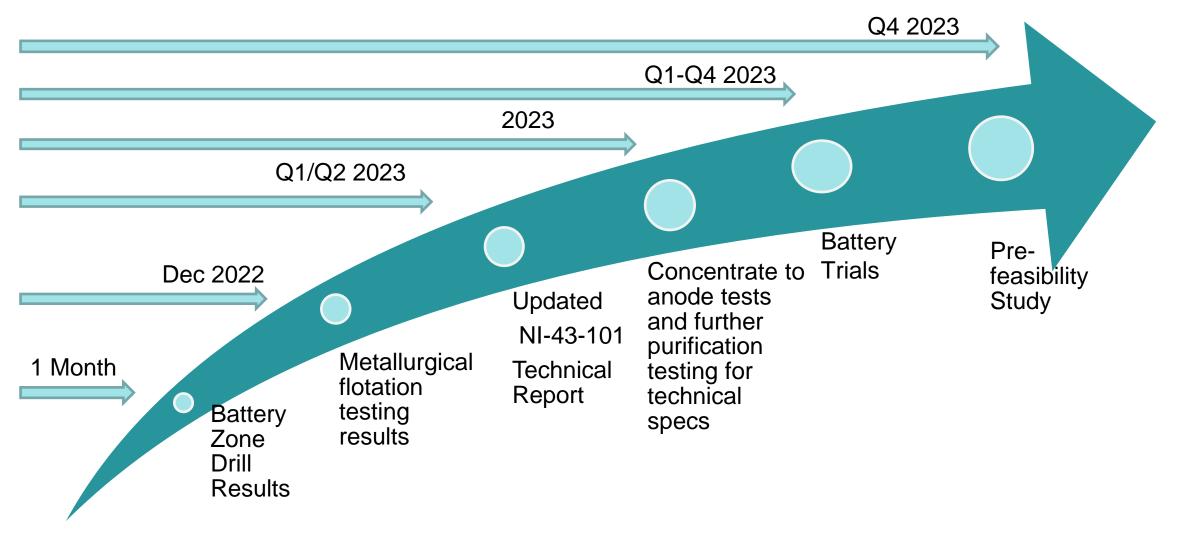
Develop relationships with potential customers

- Market investigation on pricing working with consultants to further develop Technical Data Sheets and outline test programs to understand the deposits' unique "fingerprint"
- Opening discussions with Anode and car manufacturers



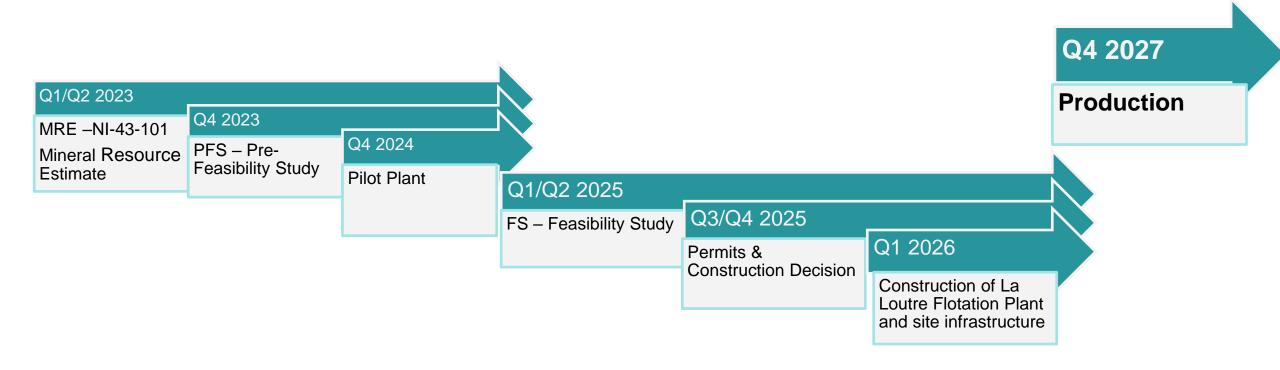


La Loutre development timeline subject to financing





La Loutre Long Term Development Line



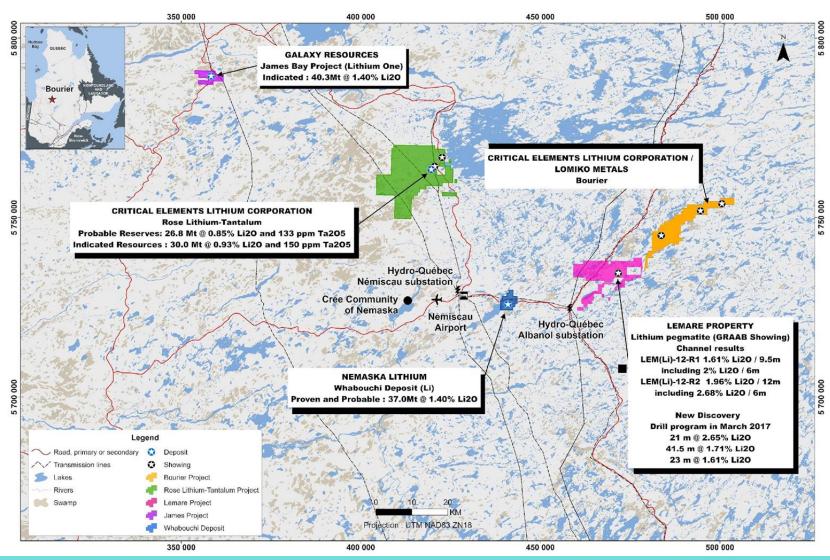


Bourier lithium project: highly prospective region

Bourier

Adjacent Properties:

- Galaxy Resources
- Nemaska Lithium
- Critical Elements
- Rose Tantalum Project FS stage
- 2. Lemare Property:
- 3. March 2017 Drilling
 21m @ 2.65% Li2O
 41.5m @ 1.71% Li2O
 23m @ 1.61% Li2O



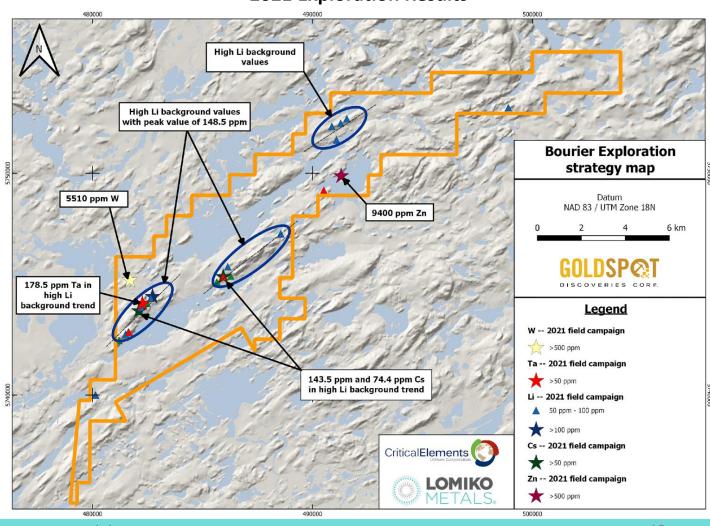


Bourier lithium project identifies exploration targets with Li anomalies

2021 Exploration Results

Bourier Exploration Program 2022

- Located on Nemiscau greenstone belt and Critical Elements south-east of the Cree Eeyou Istchee James Bay territory in Quebec.
- Summer: intensifying prospection over anomalous zones, including strategic soil surveys
- Completed field program in July with Critical Elements and GoldSpot Al
- Collected over 1000 soil samples and over 400 rock samples, mapped over 350 outcrops





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			
Metallurgy	\$0.6			
Environmental	\$0.7			
Total	\$4.8			

PLANNED

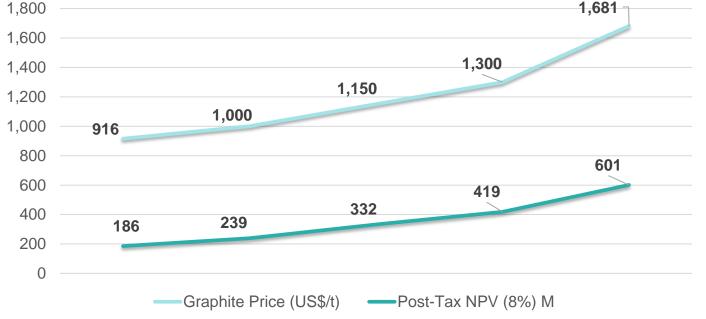
To PFS for La Loutre	Cost (\$M)
Mining Plan	\$0.3
Mining Geotechnical	\$0.9
Power and Access Road Study	\$0.2
Infrastructure Geotechnical & Waste Disposal Facility	\$0.7
Environmental, Hydrogeology & Geochemical	\$1.3
Pre-Feasibility Study Budget	\$1.4
Sum Total + 15% Contingency	\$4.8 \$5.5



NPV scenario analysis: Positively leveraged to expected graphite price increases

- PEA used a graphite concentrate selling price of US \$916/t.
- The current forecast selling price is US \$1,000/t of graphite concentrate (source: Benchmark).
- Current public information 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
\$1,000	\$239M	25.0%	3.7
\$1,150	\$332M	31.0%	3.1
\$1,300	\$419M	36.7%	2.6
*\$1,681	\$601M	48.7%	1.9

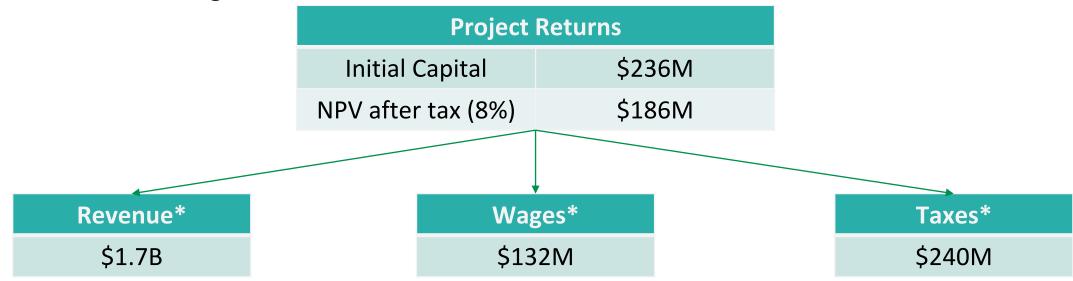
Source: NI 43-101 Technical Report and Preliminary Economic Assessment (July 2021) (\$916, \$1,150 & \$1,300)

^{*} Peer Group (FS and Construction stage) Average Forecast Selling Price of Flake Graphite



Project Returns and Impacts

Over the life of the project, 15 years, there are significant cash flows into the local economy, provincial and federal government



2021 Census Statistics - surrounding Communities					
Avg. Population 655					
Median Age	59.8 Years				
Median Household Income	\$56,267				

* Real Dollars



Comparable company analysis demonstrates value creation potential

Nov 29, 2022

Symbol	Price	Company Name	Shares O/S	Cash	TEV	Market Cap (\$M)	Measured (Mt)	Indicated (Mt)	Inferred (Mt)	EV/Resource (M&I)
TSXV:NOU	6.150	Nouveau Monde Graphite Inc	55.8	14.0	334.0	342.9	24.5	95.8	4.5	2.8
TSX:NEXT	2.530	NextSource Materials Inc	101.9	4.6	253.5	257.7	23.6	76.8	40.9	2.5
TSXV:GPH	1.170	Graphite One Inc	106.4	1.2	130.2	124.5	4.7	27.9	254.7	4.0
TSXV:SRG	0.650	SRG Mining Inc	113.8	13.6	60.4	74.0	2.1	17.0	2.8	3.2
TSXV:NGC	0.500	Northern Graphite Corp	121.0	4.7	71.0	60.5	9.0	92.6	35.9	0.7
TSXV:FMS	0.560	Focus Graphite Inc	55.8	3.6	30.0	31.2	0.4	68.4	18.0	0.4
TSXV:LEM	0.180	Leading Edge Materials Corp	152.5	1.7	25.8	27.5	1.0	9.8	2.5	2.4
TSXV:LLG	0.165	Mason Graphite Inc	141.2	7.3	16.0	23.3	19.0	46.5	17.6	0.2
TSXV:STS	0.570	South Star Battery Metals Corp	32.8	4.3	16.9	18.7	3.9	11.0	7.9	1.1
TSXV:CCB	0.075	Canada Carbon Inc	154.5	0.9	10.7	11.6		3.3	10.5	3.2
TSXV:LMR	0.035	Lomiko Metals Inc	287.4	3.8	6.3	10.1		23.1	46.8	0.3
TSXV:GEM	0.045	Green Battery Minerals Inc	69.3	1.4	1.7	3.1		1.8	1.5	1.0
		Median			27.9	29.3				1.8
		Median (Excl Lomiko)			30.0	31.2				2.4

Source: Yahoo Finance and Company data



Capital Structure

As at Nov 29, 2022

Shares Issued & Outstanding	287.4M
Options	13.0M
Warrants	82.6M
Share Units (PSU/RSU/DSU)	8.9M
Fully Diluted	392.0M
Management & Insider Ownership %	6.9%

Market Cap	\$10.1M			
Cash*	\$3.8M			
Debt	\$ -			
Total Enterprise Value	\$6.3M			

^{*} Cash balance from audited financials – July 31, 2022



New Vision. New Strategy. New Energy.

Major new energy business and operator of choice: By putting people first

We are building a strategic stockpile of critical minerals assets in Quebec

Strong investment proposition and leading with vision and values

- \$5-7m needed to PFS
- Explore and develop surrounding regional claims and review consolidation opportunities
- Continue to engage with the community in good faith and with transparency
- Surface value on Bourier



Diverse leadership with solid experience building businesses

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 Over 19 years experience in finance

Mike Petrina, VP Projects, P.Eng

Mr. Petrina is a mining engineer that has held executive roles with Adanac Molybdenum, Hawthorne Gold, MAG Silver and Probe Minerals

- 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

CEO of Pampa Metals, Lomiko Technologies, and a Director of Pampa metals, Graphene ESD and Altair Ventures

Sagiv Shiv, Chair of Audit Committee 1,3

Managing Director at B. Riley Securities 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, Independent Director 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 Director²

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