

## DEVELOPING BATTERY GRADE MANGANESE

for Domestic USA Supply

**NOVEMBER 2023** 



## **CAUTIONARY STATEMENT**



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\_FLI involves known and unknown risks, assumptions and other factors that may cause actual results or performance to differ materially. This FLI reflects the Company's current views about future events, and while considered reasonable by the Company at this time, are inherently subject to significant uncertainties and contingencies.

Accordingly, there can be no certainty that they will accurately reflect actual results. Assumptions upon which such FLI is based include, without limitation: current technological trends; the business relationship between the Company and its business partners and vendors; ability to fund, explore, advance and develop each of its projects, including results therefrom and timing thereof; the ability to operate in a safe and effective manner; uncertainties related to receiving and maintaining exploration, environmental and other permits or approvals in the United States; any unforeseen impacts of COVID-19; demand for gold, silver and base metals; impact of increasing competition in the mineral exploration business, including the Company's competitive position in the industry; general economic conditions, including in relation to currency controls and interest rate fluctuations;

The Company'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 Company's control. These include, but are not limited to: it's projects may not be explored or developed as planned; uncertainty as to whether cost-overruns; market prices affecting development of the projects; the availability and ability to secure adequate financing and on favourable terms; risks to the growth of the gold and mineral markets; 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, 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 associated with 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. The foregoing list of risks, assumptions and uncertainties associated with FLI is not exhaustive.

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Forward-looking financial information also constitutes FLI within the context of applicable securities laws and as such, is subject to the same risks, uncertainties and assumptions as are set out in the cautionary note above. All figures presented are in Canadian Dollars unless otherwise noted.

## **COMPANY OVERVIEW**

#### **EMILY MANGANESE, MINNESOTA**

Highest-grade manganese resource in North America

Commodity / Target	Manganese (Mn)
Deposit Type	Manganese-enriched Banded Iron
Location	Crow Wing County, Minnesota, USA
Asset Stage	Resource
NI 43-101 Indicated Resource NI 43-101 Inferred Resource <sup>(1)</sup>	5.69Mt @ 19.20% Mn and 23.02% Fe 778Kt @ 22.48% Mn and 22.15% Fe
Next phase of work	NI 43-101 Resource upgrade, battery testwork, process design

#### **CORCORAN SILVER, NEVADA**

Drilled silver-gold resource with excellent expansion potential

Commodity / Target	Silver (Ag), Gold (Au)
Deposit Type	Low-Sulphidation Epithermal
Location	Nye County, Nevada, USA
Asset Stage	Resource
NI 43-101 Inferred Resource <sup>(2)</sup>	33.5M oz AgEq
Next phase of work	Resource expansion, exploration drilling, metallurgical testwork

"North Star Manganese Inc NI 43-101 Technical Report, "Resource Estimate on the Emily P, Minnesota USA", by Mr. Brad M. Dunn, CPG, dated December 5th, 2022.

"NI 43-101 Mineral Resource Estimate, Corcoran Silver deposit, by Mr. Gregory Z. Mosher, P.Geo., M.Sc. and Mr. David S. Smith, P.Geo., M.S., dated October 12, 2020. Open-pit resources cut-off grade of 15 g/t AgEq; underground resources cut-off grade of 100 g/t AgEq. Silver equivalent calculated from prices of US\$21.09/oz silver and US\$1,657/oz gold and recoveries of 77% silver and 45% gold estimated from test work commissioned by Centennial Mining.

Both reports are available at <a href="https://www.SEDAR.com">www.SEDAR.com</a> and are posted on the Company's website at <a href="https://www.sepadasilvercom.com">www.sEDAR.com</a> and are posted on the Company's website at <a href="https://www.sepadasilvercom.com">www.sepadasilvercom.com</a>



## **INVESTMENT CASE**





#### **SUPPORTING THE TRANSITION TO CLEAN ENERGY**

- The transition to clean energy requires Tier 1 location in established U.S. new sources and supplies of 'electric metals'
- Multi-asset portfolio, with existing NI 43-101 resources including North America's highest-grade manganese resource
- mining jurisdictions
- Focus on building a U.S. domestic supply chain



#### **CAPITAL STRUCTURE**

- Significant ownership by board and management aligns with shareholders
- Strong and supportive shareholder base



#### **EXPERIENCED TEAM**

- Global, multidisciplinary experience
- Track record in exploration success, mine development and M&A
- Newly formed Technical Advisory Board aligns with project development needs



#### **NEAR-TERM CATALYSTS**

- Resource expansion potential across all projects
- Drilling at the Emily Manganese project leading to an updated NI 43-101 resource estimate
- Advancing metallurgical and battery testwork; and process design
- Land acquisitions at the Emily Manganese project creates new opportunities for resource expansion
- Monetization of Nevada silver assets



#### **FAVOURABLE MACRO OUTLOOK**

- Significant growth forecast for high purity manganese products with increasing EV, storage and battery capacity
- Government, regulators and customers are committed to building domestic US supply chains
- Major EV and cathode material producers are increasing manganese in battery chemistries
- Electrification driving increased use of silver in technology and industrial applications

# ADVANCING TECHNOLOGY AND MANDATED GLOBAL CLIMATE POLICIES ARE TRANSITION TO CLEAN ENERGY

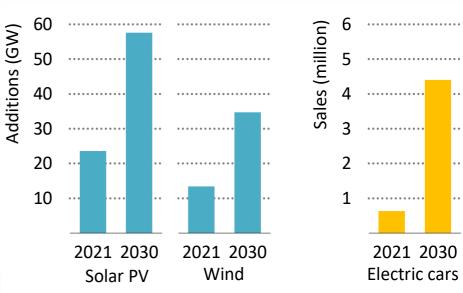


Unprecedented policy responses are fast-tracking the emergence of a clean economy, driving investment in clean electricity and electrification

- Clean energy investment forecast to increase to USD 2 trillion by 2030<sup>(3)</sup>.
- Electricity use is growing at double the pace of overall energy demand, led by the transportation sector. Alongside this, demand for renewable power is growing significantly, supported by a rise in energy storage deployment.
  - [Annual solar and wind capacity additions in the US are growing at nearly three-times current levels; electric vehicles growing at seven-times.]
- New sources and supplies of metals and advanced materials essential to electric vehicles, rechargeable batteries and other high-tech industries are required to meet anticipated future demand. These 'electric metals' are under great supplydemand tension, particularly in the USA.

"The extraction and processing of critical minerals are highly concentrated geographically... and could become a bottleneck for clean energy deployment." International Energy Agency, November 2022

#### Technology deployment in the United States<sup>3</sup>



Recent US legislation provides nearly USD 560 billion for clean energy

<sup>(3)</sup> International Energy Agency, World Energy Outlook 2022

## MANGANESE DEMAND: CURRENT AND EMERGING



Not all manganese is fit for processing downstream to a material suitable for battery applications. That's important given that almost half of today's lithium-ion batteries include manganese, and projections have that figure jumping above 60% by 2030 (CPM, 2023).

• Global Li-B demand forecasts that more high-purity manganese mines and processing plants are required than for any other battery metal. More than 100 new projects producing 30,000t of HPMSM are required to meet forecast demand. Approximately 15 projects are in the pipeline globally, nine of which are in China (CPM, April 2023).

#### **Key market drivers**

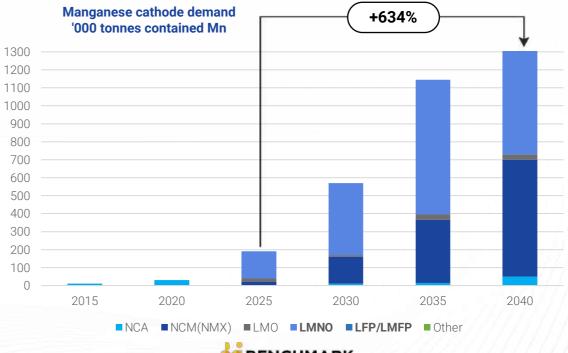
- Strict emissions requirements and government subsidies and funding in support of ambitious climate change targets is driving the electrification of the global transportation fleet along with other energy storage applications.
- Major EV, cell and cathode material producers are committed to increasing manganese in battery chemistries, i.e., NCM and LMO, as well as emerging high-manganese formulations such as LMFP, NMx, LMNO.
- Seven major automakers have committed to manganese-based batteries VW, Tesla, Stellantis, Ford, Renault, Nissan and Mitsubishi. This group makes 31 million cars annually, and their batteries will require HPMSM.
- High manganese means better energy density and lower cost.







#### Manganese demand supported by emerging chemistries





## US PERSPECTIVE... THE GREAT RAW MATERIAL DISCONNECT



"The U.S.A depends on unreliable foreign sources for many of the strategic and critical minerals necessary for the clean energy transition. Demand for such materials is projected to increase exponentially as the world transitions to a clean energy economy"

Presidential Action under US Defense Production Act, 2022

US legislation such as the Inflation Reduction Act (IRA) is a huge boost to stimulating downstream cell and battery demand, but...

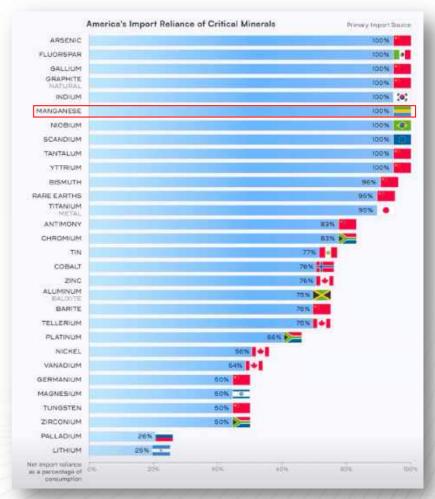
Approx. 50% of IRA compliant critical materials come from "Foreign Entities of Concern", with China maintaining its dominance over chemical conversion (Benchmark Mineral Intelligence)

• With a 70% deficit of domestic supply, the US will require almost three-quarters of Free Trade Agreement supply to meet demand, which is not possible given maturity of supply chain contracts.

High purity manganese demand will accelerate as the US battery market continues to grows

- 1TWh of additional battery capacity to be built in North America by 2032, with nine Gigafactories (316GWh) in the last 12 months.
- 242GWh of capacity was added to the US pipeline following the announcement of the IRA.

With no manganese mine supply in North America, governments and regulators remain committed to building a domestic US supply chain.



## ELONGATED SUPPLY CHAINS ADDS TO EMISSIONS AND POTENTIAL SUPPLY CHAIN DISRUPTIONS

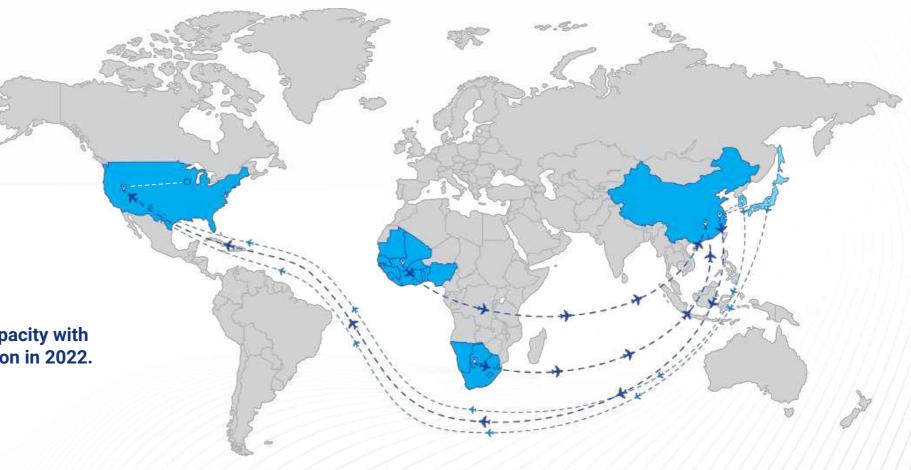


With China controlling more than 90% of global high-purity manganese production capacity, mined manganese ore is being shipped to China mainly out of Africa for processing and then transported to the United States. This elongated supply chain adds to CO<sub>2</sub> emissions and makes the US susceptible to supply chain shocks.

A closed-loop, domestic US supply chain would lessen supply disruptions, lower emissions and reduce the reliance on foreign imports.

China dominates HPMSM refining capacity with 97% of battery grade MnSO<sub>4</sub> production in 2022.

International Manganese Institute







OUR MISSION IS TO BECOME A SIGNIFICANT DOMESTIC PRODUCER OF HIGH-PURITY, HIGH-VALUE MANGANESE CHEMICAL PRODUCTS FOR SUPPLY TO U.S. ENERGY AND TECHNOLOGY MARKETS.



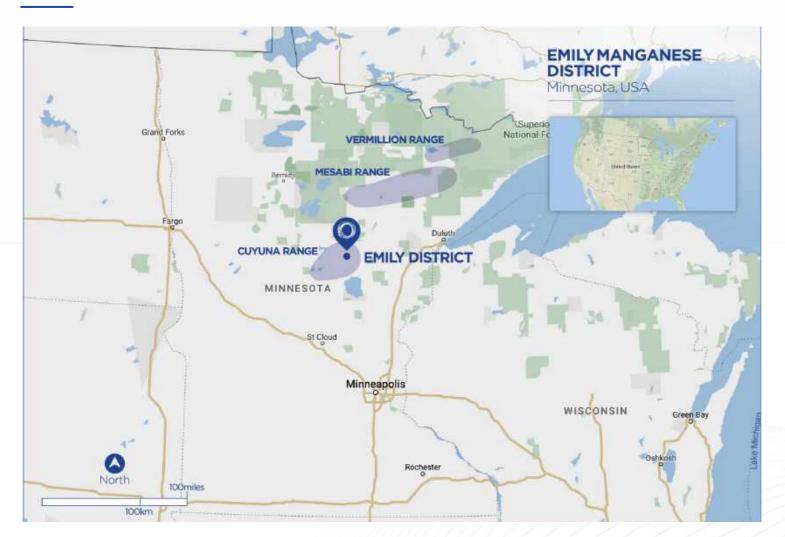






## **EMILY MANGANESE PROJECT LOCATION MAP**





- Minnesota has a proud 200year history in exploration and mining.
- The Emily Manganese Project is part of the Emily District of the Cuyuna Iron Range in Crow Wing County, Minnesota.
- The Emily District contains the highest-grade source of Manganese found in North America.
- High-grade Manganese was first discovered in the Emily District around 1910, with exploration advanced by Pickens Mather and U.S. Steel in the 1930s-1950s.

## CONFIRMED HIGH-GRADE NI 43-101 RESOURCE BASE



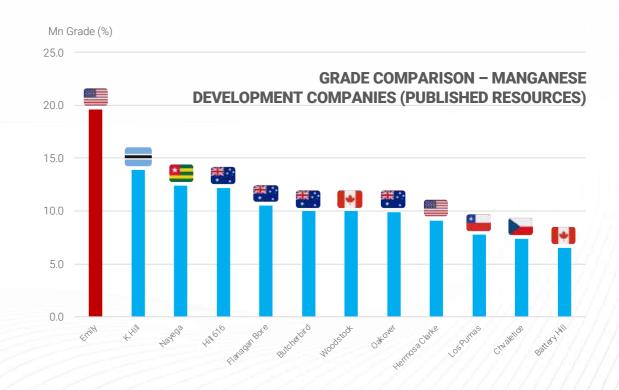
EML controls 368 acres of mineral rights in the Emily District of the Cuyuna Iron Range,, with access to adjacent land within a footprint exceeding 500 acres. There are targeted zones for resource expansion on these additional lands, as well as at depth.

#### NI 43-101 RESOURCE ESTIMATE, BARR ENGINEERING CO. (JUNE 2022)

MN 10% CUTOFF GRADE	TONS	MN (%)	FE (%)
Total Indicated	5,685,310	19.20	23.02
Total Inferred	777,777	22.48	22.15

While a significant manganese resource exists at the Emily deposit, the resource defined by Barr Engineering represents only a small portion of a much larger area of manganese-iron deposition along strike and down-dip previously drilled by Pickands Mather and US Steel in the 1940s and 1950s.

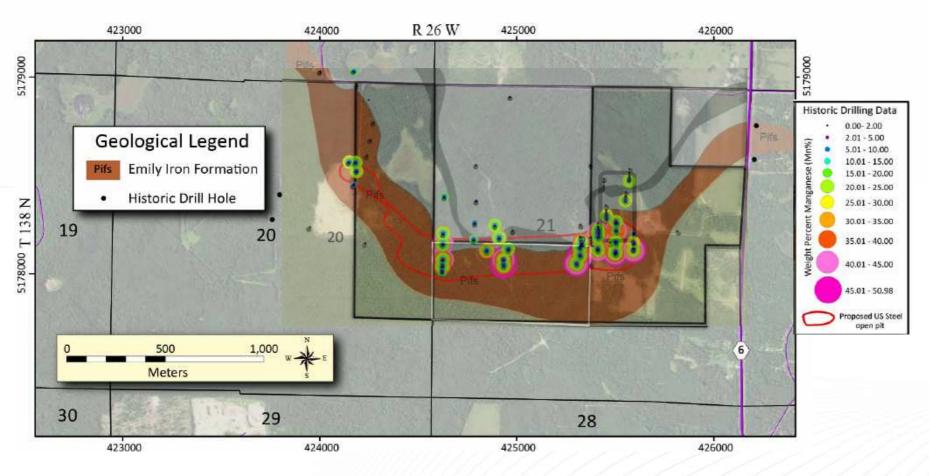
- The Barr resource is based on only seven drill holes located on a small section of the deposit.
- Historical and current drilling intercepted significantly higher grades and a former mine plan indicates significant additional tonnage available adjacent to the current resource.



### **EMILY MANGANESE FOOTPRINT**



The map below shows historic drilling data and grade shells overlaid over the existing land holdings. The red outline shows the proposed US Steel West Ruth Lake Mine. Most of the historic drilling and the proposed US Steel mine is now covered by land owned by EML.



## 2023 DRILL PROGRAM - HIGHLIGHTS



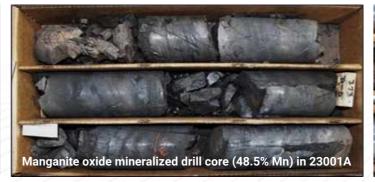
A 32-hole drill program for 4,160 meters was completed on 31st July, with 29 holes reaching target depth. The table below summarizes select high-grade assays.

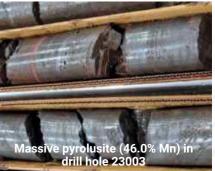
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HOLE NO.:	FROM (m)	TO (m)	LENGTH (m)	AVE Mn (%)	AVE MnO (%)
NSC-23001A	106.00	114.90	8.90	36.12	46.64
	110.64	114.91	4.27	44.47	57.42
	113.69	114.91	1.22	48.50	62.60
NSC-23002A	65.99	72.09	6.10	43.42	56.06
	67.03	70.23	3.20	46.08	59.50
	69.65	70.23	0.58	47.80	61.72
NSC-230003	58.22	68.46	10.24	36.04	46.53
	62.88	68.28	5.39	42.50	54.88
NSC-23004	106.07	117.20	11.13	32.50	41.96
	109.12	112.17	3.05	48.55	62.69
NSC-23042	128.17	135.03	6.86	39.01	50.37
	131.98	135.03	3.05	45.00	58.10
	134.11	135.03	0.91	49.20	63.53
NSC-23043	85.59	97.51	11.92	40.07	51.74
	94.12	97.51	3.39	44.93	58.01

HOLE NO.:	FROM (m)	TO (m)	LENGTH (m)	AVE Mn (%)	AVE MnO (%)
NSC-23046A	118.26	119.79	1.53	45.80	59.14
NSC-23057	87.90	95.83	7.92	40.94	52.86
	95.95	95.83	0.88	45.80	59.14
NSC-23047	122.22	122.68	0.46	44.10	56.94
	125.67	127.1	1.43	41.10	53.07
NSC-23049	166.30	171.30	5.00	30.87	39.86
	169.93	170.69	0.76	42.60	55.10
NSC-23050	142.34	147.28	4.94	35.68	46.07
	145.85	147.28	1.43	44.60	57.59
NSC-23052	70.62	74.37	3.75	35.94	46.41
NSC-23053	64.71	67.45	2.74	42.19	54.48
	65.99	67.45	1.46	46.30	59.78
	72.54	74.07	1.52	36.10	46.61
NSC-23054	78.94	87.42	8.47	30.08	38.84
	85.25	87.42	2.16	39.36	50.82

The table below shows select drill holes containing +30m of manganese oxides.

HOLE NO.:	FROM (m)	TO (m)	LENGTH (m)	AVE Mn (%)	AVE MnO (%)
NSC-23001A	106.00	138.10	32.10	17.67	22.82
NSC-23002A	59.90	94.80	34.90	21.19	27.36
NSC-23003	58.22	92.11	33.89	17.93	23.15
NSC-23004	106.07	136.18	30.11	18.18	23.47
NSC-23007	61.51	108.51	48.37	10.52	13.58
NSC-23042	127.10	158.62	31.52	18.22	23.53
NSC-23043	82.57	116.74	34.17	22.78	29.41
NSC-23049	125.21	189.89	64.68	12.85	16.59
NSC-23052	61.26	93.06	31.79	14.88	19.21

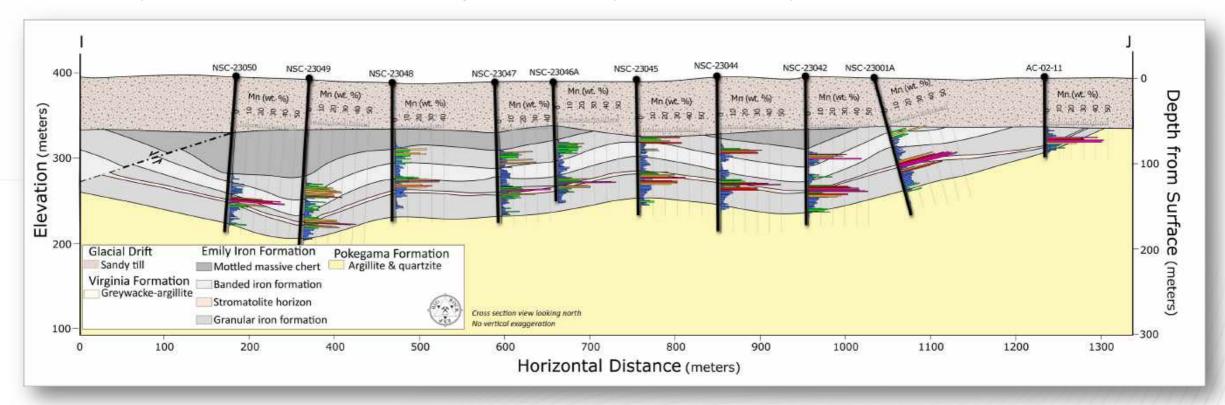




## 2023 DRILL PROGRAM - LONG SECTION



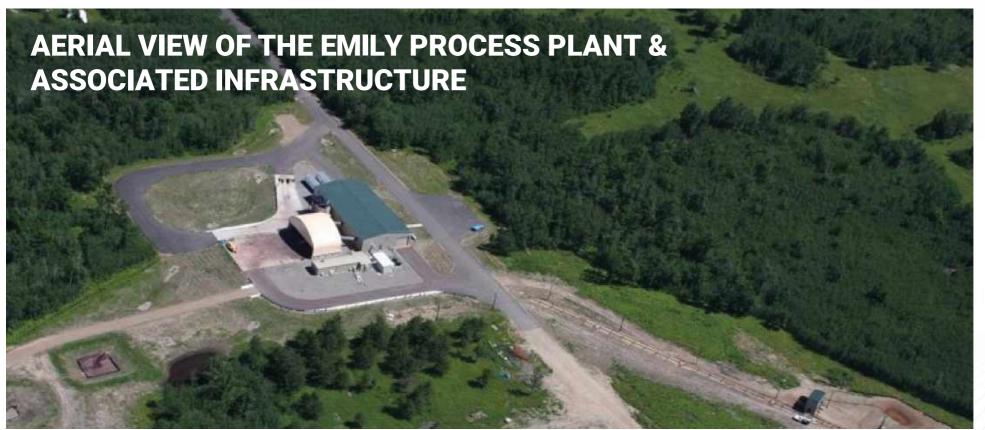
West-east long section through the north-dipping Emily deposit. Holes were drilled at approximately 100 meter spacing and most intersected high-grade manganese horizons. The deposit extends for more than 1100 meters along trend and remains open to the west and at depth.



## **EMILY SITE WORKS**



US\$28 million has been invested in the Emily project resulting in a number of important technical studies, exploratory drilling, process development and benchmark pilot process to produce Electrolytic Manganese Metal (EMM) and Electrolytic Manganese Dioxide (EMD). At site, a processing plant with pumping equipment, a tension storage building and transport and storage facilities, drainage basins and local road improvements were all completed.









## STRATEGIC LOCATION WITH ESTABLISHED INFRASTRUCTURE AND RESOURCES



The Emily Project is located in central Minnesota, near the largest operating iron mines in North America. The area is serviced by roads, rail, domestic and international ports and air service. International and interstate pipelines service the area, as do large domestic power companies. With over 100 years of mining in the area, the tradition, culture, labor, services, equipment and supplies support the mining industry.



#### **POWER & GAS**

- Adjacent 69 AC power line and three larger lines nearby
- Major trunk gas pipeline 20 miles south



#### SKILLED MINING WORKFORCE

 Minnesota supplies > 90% of domestic U.S. iron ore production; Emily can leverage off the existing skilled workforce.



#### **MAJOR HIGHWAYS**

Site located off State
 Highway 6 and ~100 miles to
 I-35 and 150 miles to I-94



#### **PORTS**

 Major transportation centers for the shipment of bulk commodities



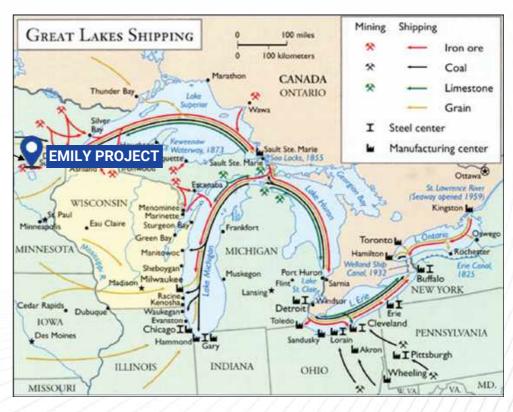
#### **AIRPORTS**

 Proximity to regional and international airports



#### RAIL

 Tier One BNSF Railroad nearby



## OUR COMMITMENT TO ESG IS ABOUT EXCEEDING BEST PRACTICE, NOT MEETING MINIMUMS



While ESG is not just about the environment, sustainability holds the most weight and is fundamental to our business. Our future is underpinned by the transition to clean energy, as manganese and silver are critical minerals used respectively in the storage and generation of clean energy.

## EML has a firm commitment to meet or exceed all local state and federal environmental rules and requirements at the Emily Project.

- The Emily Deposit is located in a rural area near former mining operations.
- Environmental work is coordinated with all site activities and will be carried out through the life of the project – all geologic site work is accompanied by environmental teams. We remain well ahead of the typical pre-development company timeline.
- Appointed global consultancy firm WSP Environment & Infrastructure to advise on environmental compliance, review and permitting strategies.
- Commissioned Barr Engineering Company to prepare a comprehensive evaluation of local groundwater and residential well data.
- Formed strategic partnership with UK enterprise software firm Circulor for US provenance and supply chain transparency and Co<sub>2</sub> tracking.

To obtain a social license to operate we must foster trust through engagement, communication and collaboration with all stakeholders.

• From outreach programs to local communities, through tribal, municipal, state and federal government engagement, EML maintains an open dialogue and is committed to transparent and accountable dealings with all stakeholders.



## **EMILY PROJECT TECHNICAL STUDIES**



#### Technical studies undertaken:

- NI 43-101 Mineral Resource report
- Mineralogy and process development
- Leaching of Mn-Fe bearing rock samples and beneficiation
- MLA characterization of iron ore samples
- Spiral separation and pre-concentration of manganese-iron ore samples
- Technical study to review alternate methods to extract ore.

Process development and bench-scale pilot processing successfully produced Electrolytic Manganese Metal (EMM) and Electrolytic Manganese Dioxide (EMD).

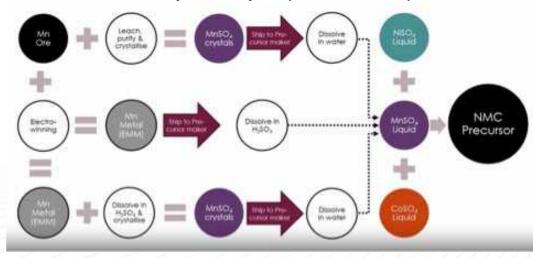
#### In order to better understand the mineralization, grade and continuity Benchscale processing and successful upgrading of manganese:

- Natural Resources Research Institute (NRRI) conducted testwork on a representative bulk sample to assess grindability and to provide samples for further third-party work.
- Hazen Research (Colorado) undertook gravity separation and crushing tests.
- Kemetco Research (British Columbia) undertook bench-scale leaching tests.
- Hydrometallurgical and Pyrometallurgical processing testwork.

#### Advancing technical studies to accelerate deliver of 'proof of concept', i.e.:

- NI 43-101 Mineral Resource upgrade final report Q4:2023.
- Metallurgical and battery testwork; and process design initial feedback indicates that there are no major impediments to producing HP manganese products using existing flowsheet configurations.
- Preliminary mine studies and design.
- Downstream site investigation study.
- The above projects are overseen by EML Technical Advisory Board.

#### Testwork now underway will identify the optimal flowsheet to produce HPMSM



## **2023 YEAR IN REVIEW**



#### **CORPORATE VALUE ADD**

- Recapitalized the business through the successful completion of two private placements at increasing valuations to raise a total of \$9.75m, and via the acceleration of warrants to raise \$4.39m.
- Strengthened the board through the appointment of a new chairman and an accomplished US-based financier.
- Change of name to better reflect the focus of the Company as a developer of battery and technology-related minerals.

## FORMATION OF TECHNICAL ADVISORY BOARD

- Internationally recognized technical experts each with a depth of experience, and specific expertise to accelerate project development.
- Diverse knowledge-base encompassing resource growth, mine construction, metallurgical process design and chemical engineering.

#### SUCCESSFUL COMPLETION OF MAIDEN DRILL CAMPAIGN AT THE EMILY MANGANESE PROJECT

- 32-diamond drill hole campaign (29 to target depth) for 4160m (13649').
- Assay results confirm that thick intersections of high-grade manganese extend along trend for more than 1100m (3609'), containing grades up to 49.20% Mn (63.53% MnO) in individual samples. The deposit remains open to the west and at depth.

#### **STRATEGIC LAND ACQUSITIONS**

- Acquired two strategic blocks of land significantly expanding the Emily Manganese project exploration footprint.
- Advanced discussions with the State of Minnesota to lease further land blocks.



#### **ENVIRONMENT AND PERMITTING**

- Appointed global consultancy firm WSP
   Environment & Infrastructure to advise on environmental compliance and permitting strategies.
- Commissioned a comprehensive evaluation of local groundwater and residential well data.
- Formed strategic partnership for supply chain transparency and CO<sub>2</sub> tracking.

## ADVANCING TECHNICAL STUDIES TO DELIVER PROOF OF CONCEPT

- On track to deliver an updated NI 43-101 technical report in December 2023.
- Advancing metallurgical testwork on composites of selected drill core samples from drilling at the Emily Manganese Project to produce end product material for Li-lon batteries. Preliminary results due early 2024.



## EMILY PROJECT PHASED DEVELOPMENT



#### **1 - 6 MONTHS**

- NI 43-101 Resource Estimate
- Advance exploration strategy for resource upgrade and reclassification
- Define and initiate baseline and environmental studies
- Land management (acquisitions and leasing of additional property)
- Government and stakeholder engagement
- Phase I drilling and modelling
- Undertake detailed testwork and flow sheet assessment

#### 6 - 12 MONTHS

- NI 43-101 Resource Update
- Initiate preliminary mine studies
- Initiate downstream site investigation study
- Preliminary Economic Assessment (NI 43-101 PEA)
- Ongoing baseline and environmental studies
- Metallurgical testwork and flowsheet design
- Logistics and transport studies
- Initiate market studies
- Continue government and stakeholder engagement
- Initiate discussions with strategic partners

#### 12 - 18 MONTHS

- Ongoing resource and reserve drilling (as required)
- Ongoing mine plan development
- Ongoing metallurgical studies and processing confirmation
- Get product samples to potential customers and ongoing market studies
- Ongoing baseline and environmental studies
- Initiate Pre-Feasibility Study, continue to Feasibility Study
- Continue government and stakeholder engagement
- Proceed to Permit Stage

<u>20</u> www.electricmetals.com

## **CORPORATE SNAPSHOT**



#### Mr. Oliver Lennox-King BCOM

#### **NON-EXECUTIVE CHAIRMAN**

Toronto-based senior executive with long and distinguished career in the global mineral resources industry.

## Dr. Henry J. Sandri PhD MA BS DIRECTOR

+40 years in metals and minerals, energy, power and transportation industries in global public and private companies.

## Ms. Megan McElwain B.A NON-EXECUTIVE DIRECTOR

Toronto-based executive with a successful business career in global media, resources and Canadian Chamber of Commerce.

#### Mr. Gary Lewis всом мвт

#### **GROUP CEO & DIRECTOR**

Executive with +30 years in capital markets, business and strategy development in Australia, UK and the Americas.

### Mr. John Kutkevicius BCOM LLB LLM NON-EXECUTIVE DIRECTOR

Toronto-based income tax lawyer, has served as a director of a number of junior resource companies.

### Mr. Steve Durbin AB ECONOMICS NON-EXECUTIVE DIRECTOR

US-based investment banker and professional investor with extensive experience in cross-border private and public equity financings.

### TSXV EML | OTCQB EMUSF

CAPITAL STRUCTURE AT 2 <sup>nd</sup> NOVEMBER 2023				
Shares Outstanding	144,712,683			
Options Outstanding Exercise price \$0.25 - \$0.33	4,250,000			
Warrants Outstanding Exercise price \$0.25 - \$0.45	37,895,990			
Fully Diluted Shares Outstanding	186,858,673			
Basic Market Capitalization	\$34.7M			
Board and Insiders	36.9%			

#### **Technical Advisory Board**

## **Dr. lan Pringle** PhD BSc (GEOLOGY) CHIEF TECHNICAL OFFICER, CHAIR

Senior mining executive with outstanding track record of successful mineral resource evaluation, discovery and development.

### Mr. Tyson Hall BSc MBA CHEMICAL ENGINEER

Broad executive experience in specialty chemicals. Has planned, built and operated advanced materials projects throughout USA.

## Mr. Hermann Scriba Beng Meng METALLURGICAL PROCESS ENGINEER

Specialist metallurgist with in-depth experience in HP manganese operations, process development and engineering.

### Mr. Timothy Arnold PE BSc MINING ENGINEER

US mining engineer, over 40-years developing and operating open pit and underground mines across a variety of commodities.



#### **CONTACT US**

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