

CSE: **BBRD**  
OTCQB: **BBCMF**  
FSE: **N79**



# **BLACKBIRD**

CRITICAL METALS

**CORPORATE  
PRESENTATION  
MARCH 2024**

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Certain statements contained in this presentation constitute “forward-looking statements” within the meaning of applicable Canadian securities legislation. Such forward-looking statements herein may include but are not limited to: strategic plans and expectations for the exploration and/or development of Blackbird Critical Metals Corp.’s (“Blackbird”, or “the Company”) mineral property interests; costs, metal price assumptions, drilling and metal grade results, cash flow forecasts, internal rate of return, projected capital and operating costs; copper, nickel, titanium, vanadium, and scandium recoveries and production rates.

Such forward-looking statements or information are based on a number of assumptions which may prove to be incorrect. Assumptions have been made regarding, among other things: conditions in general economic and financial markets; availability to realize historical technical data and develop and finance the projects; accuracy of the interpretations and assumptions used in calculating mineral resource estimates; availability of mining equipment; availability of skilled labour; timing and amount of capital expenditures; laboratory and other related services are available and perform as contracted; effects of regulation by governmental agencies; and future operating costs.

“The actual results could differ materially from those anticipated in these forward-looking statements as a result of the risk factors set forth below and elsewhere in this presentation: the availability of funds; the timing and content of work programs; results of exploration activities and development of the mineral property; the interpretation of drilling results and other geological data; the uncertainties of resource estimations; project cost overruns or unanticipated costs and expense; uncertainty as to actual capital costs, operating costs, production and economic returns and uncertainty that exploration will result in a economic or viable project at Big Onion or any of the Company's other projects, fluctuations in commodity prices and currency, political and economic risks and general market and industry conditions.

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***QUALIFIED PERSON. Under National Instrument (NI 43-101) Standards of Disclosure for Mineral Projects, the Qualified Person for this presentation is Ryan Versloot, P.Geo., a technical consultant to Blackbird Critical Metals Corp., who has reviewed and approved its contents.***

# INVESTMENT OVERVIEW



The Company is working towards a maiden drill program to follow up on highly prospective ground exploration discoveries in titanium, vanadium & scandium as well as nickel, copper & cobalt.



Blackbird has over 3M in the treasury which is projected to fund all exploration and overhead well in to 2025<sup>1</sup>.



The Tye Critical Metals Project is located in Quebec, Canada, which has been consistently ranked as a top jurisdiction for mining and exploration by the Fraser Institute. Furthermore, it is located in close proximity to Rio Tinto's Lac Tio Mine (world's largest hard rock titanium mine).



The Blackbird Critical Metals geological team has a track record of exploration success in Quebec and is backed by a strong corporate team

<sup>1</sup>As of January 31 2024.

# CANADIAN CRITICAL METALS



**Tye Critical Metals Project** (Quebec) is located 130 km north of Havre-Saint-Pierre and 100 km north of the Lac Tio titanium mine. The project is located 12 km from the Romaine IV hydroelectric power facility and service roads. BLACKBIRD will commence a maiden drill program in spring 2024 to test newly discovered titanium and nickel showings.

**Muskox Lithium Project** (Northwestern Territories) is a road-accessible lithium project 45 km east of Yellowknife. The project contains a 700+ m lithium bearing pegmatite with grades of over 1%  $\text{Li}_2\text{O}$  that is up to 6 m wide.

# Growing Critical Metals Market

Blackbird is targeting multiple metals identified as critical in both U.S. and Canada

**Ti** The global titanium market is projected to grow at a 6.3% CAGR to US\$33.5B by 2026<sup>1</sup> supported by increasing demand in aerospace, defense, medical implants, and industrial applications. North America is the fastest-growing market, although North American supply is currently limited.

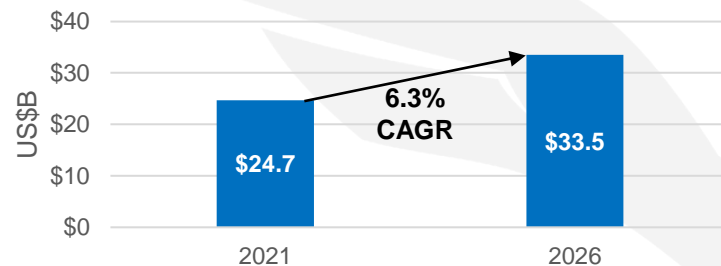
**V** Vanadium flow batteries provide stable baseload power for solar farms as well as off-grid and microgrid applications.

**Sc** Scandium is a rare metal that is finding new uses as an alloy with aluminium, allowing for high-growth and strategic markets in electric vehicles, aerospace, and aviation.

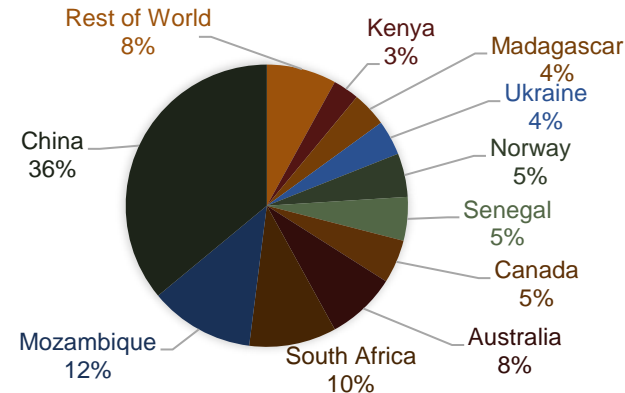
**Cu** Copper is a component in everything electric, making it a key element in the energy transition.

**Ni** Nickel is an important component of batteries used in electric vehicles, with demand expected to increase for high-value nickel sulphides.

Titanium Market Size<sup>1</sup>



TiO2 MINERALS PRODUCTION, 2021<sup>2</sup>



<sup>1</sup>Source: <https://marketsandmarkets.com/Market-Reports/titanium-market-53889164.html>

<sup>2</sup>Source: <https://www.statista.com/statistics/480822/titanium-dioxide-global-production-by-country-share/>

# \$8B INVESTMENT IN ENERGY AND MINING

## Surrounding Havre-Saint-Pierre, Quebec

**Titanium, iron, vanadium and scandium** ore is mined at the Lac Tio mine<sup>1</sup>, owned by Rio Tinto. All of these minerals are identified as “critical minerals” in both the U.S. and Canada. The Lac Tio mine has been in operation since the 1950s and produces about 3 MT of ore per year.

**Ore is brought by rail** to a deepwater port facility in Havre-Saint-Pierre. From there the ore is shipped to a large processing facility in Sorel-Tracy, Quebec, where it is processed and separated into different end uses (titanium, vanadium, iron, scandium).

**The only North American production of Scandium** comes from the processing of Lac Tio ores in Sorel-Tracy, Quebec.

**Over \$700M has been spent on Critical Metals infrastructure since 2020**, including joint expenditures by Rio Tinto and the Government of Canada to decarbonise the metallurgical plant at Sorel-Tracy

**A \$7.14B hydroelectric plant with government-maintained road** was completed in 2023. This plant is less than 10 km from the Tyee critical metals project.

<sup>1</sup>Mineralization outside Blackbird's tenure is not indicative of mineralization within Blackbird's tenure. The Tyee Project is an exploration stage project.

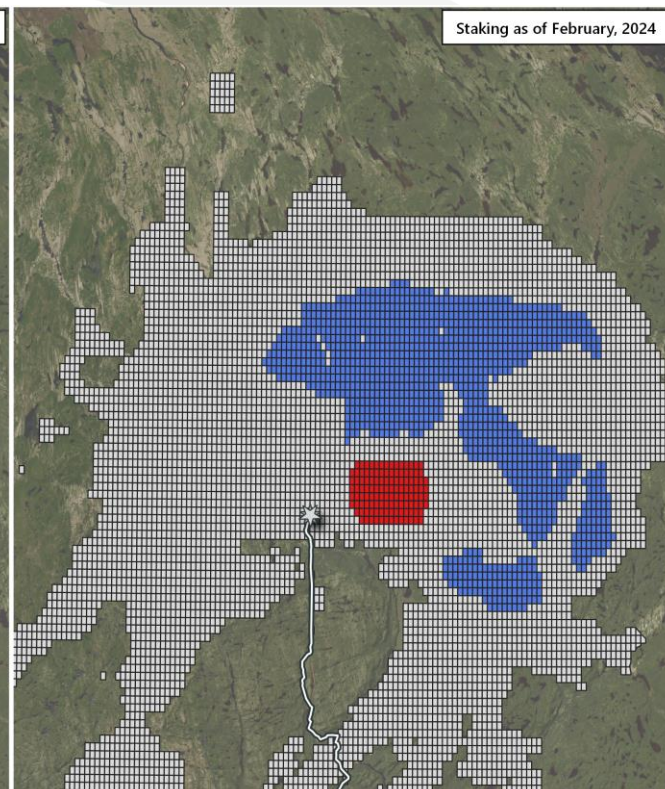
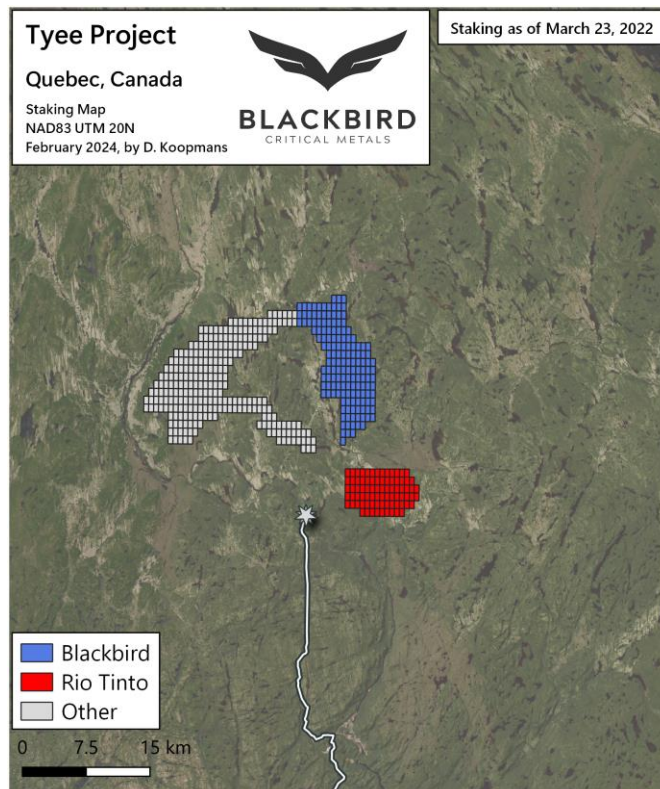


# A NEW EXPLORATION HOTSPOT

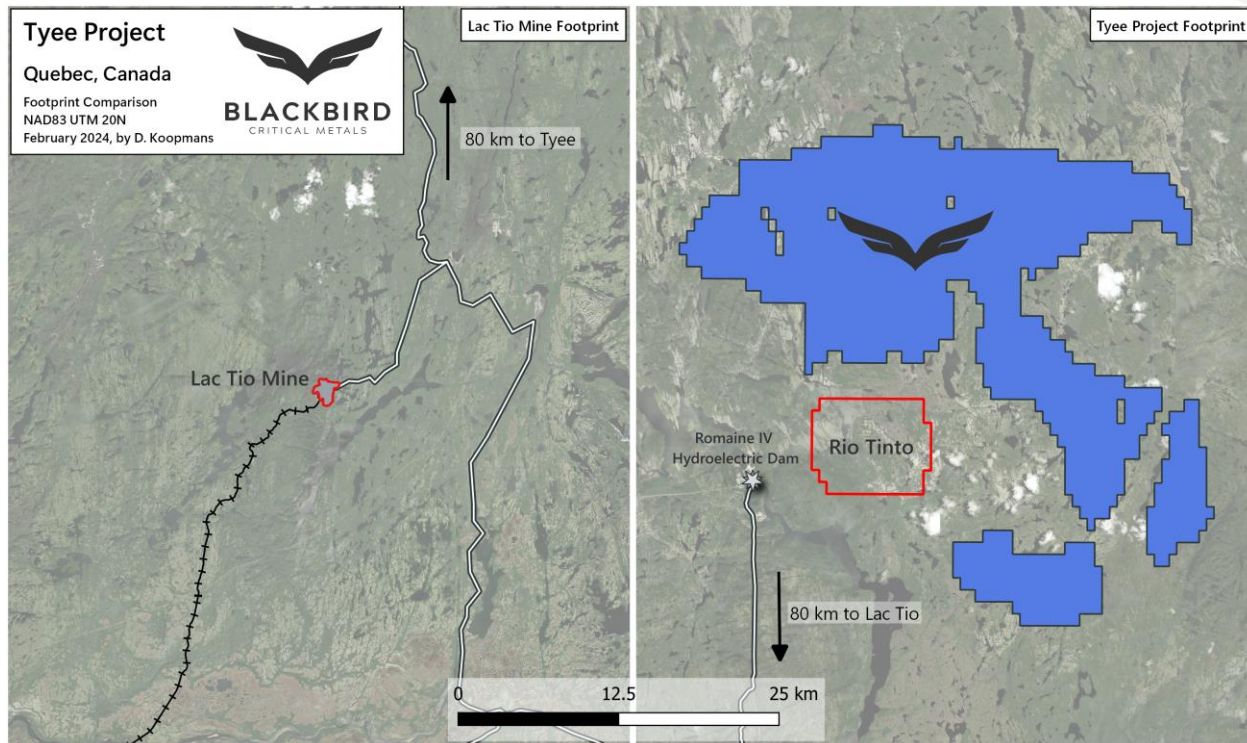
Surrounding Havre St. Pierre in Quebec

The Crescent and St. Denis West zones of the Tye project were staked in March 2022, immediately after which Rio Tinto staked in the region as well.

Blackbird consolidated a large land package, sparking a **massive critical metals staking rush** in the region.



# BLACKBIRD'S LAND PACKAGE



The Tye Project is 625 km<sup>2</sup>.

The Lac Tio Mine<sup>1</sup> is 2.4 km<sup>2</sup>.

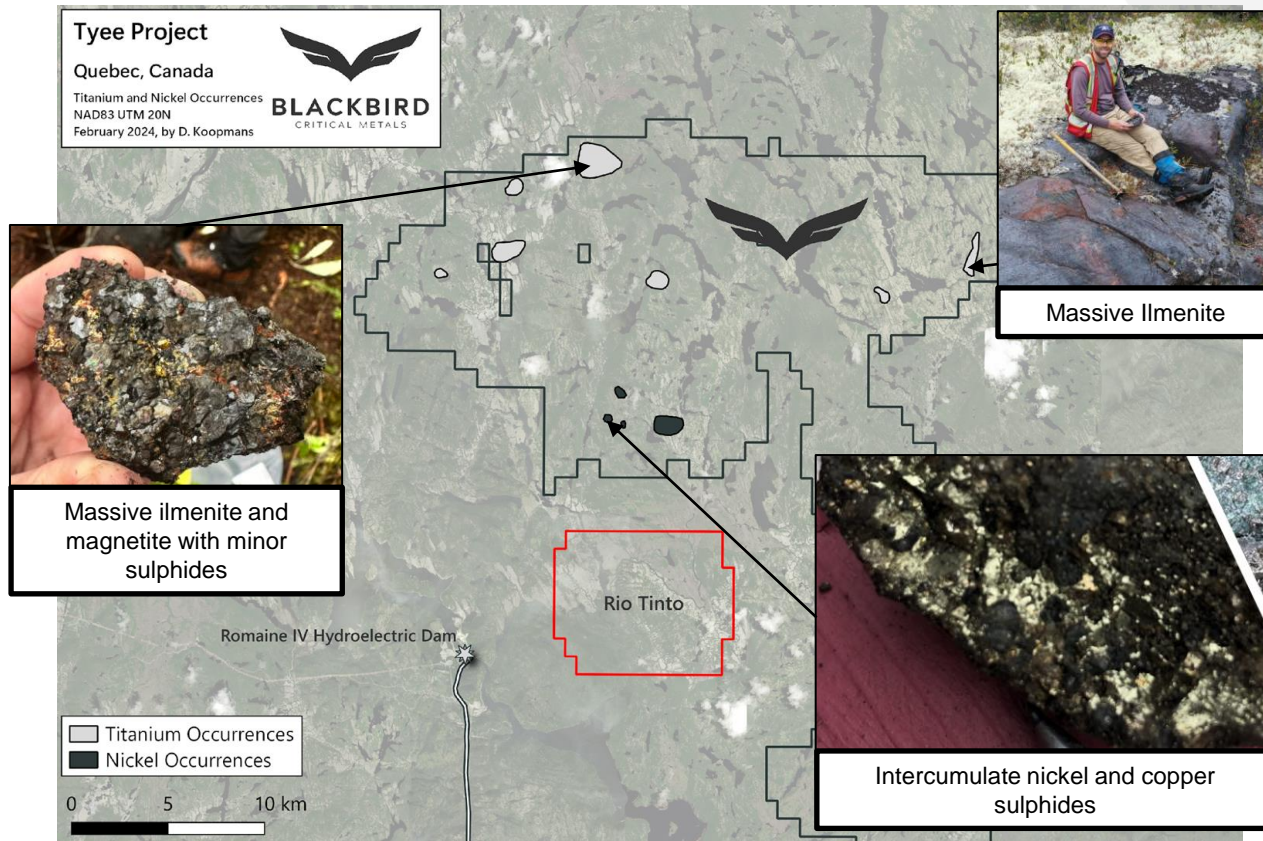
The combined area of the titanium anomalies discovered on the Tye Project in 2023 is 9.253 km<sup>2</sup>, based on sampling extent and geophysical signature.

The Project is in close proximity to a hydroelectric dam and government-maintained road.

<sup>1</sup>Mineralization outside Blackbird's tenure is not indicative of mineralization within Blackbird's tenure. The Tye Project is an exploration stage project.



# 2023 DISCOVERIES PRIMED FOR DRILLING



8 New Titanium Vanadium and Scandium occurrences discovered.

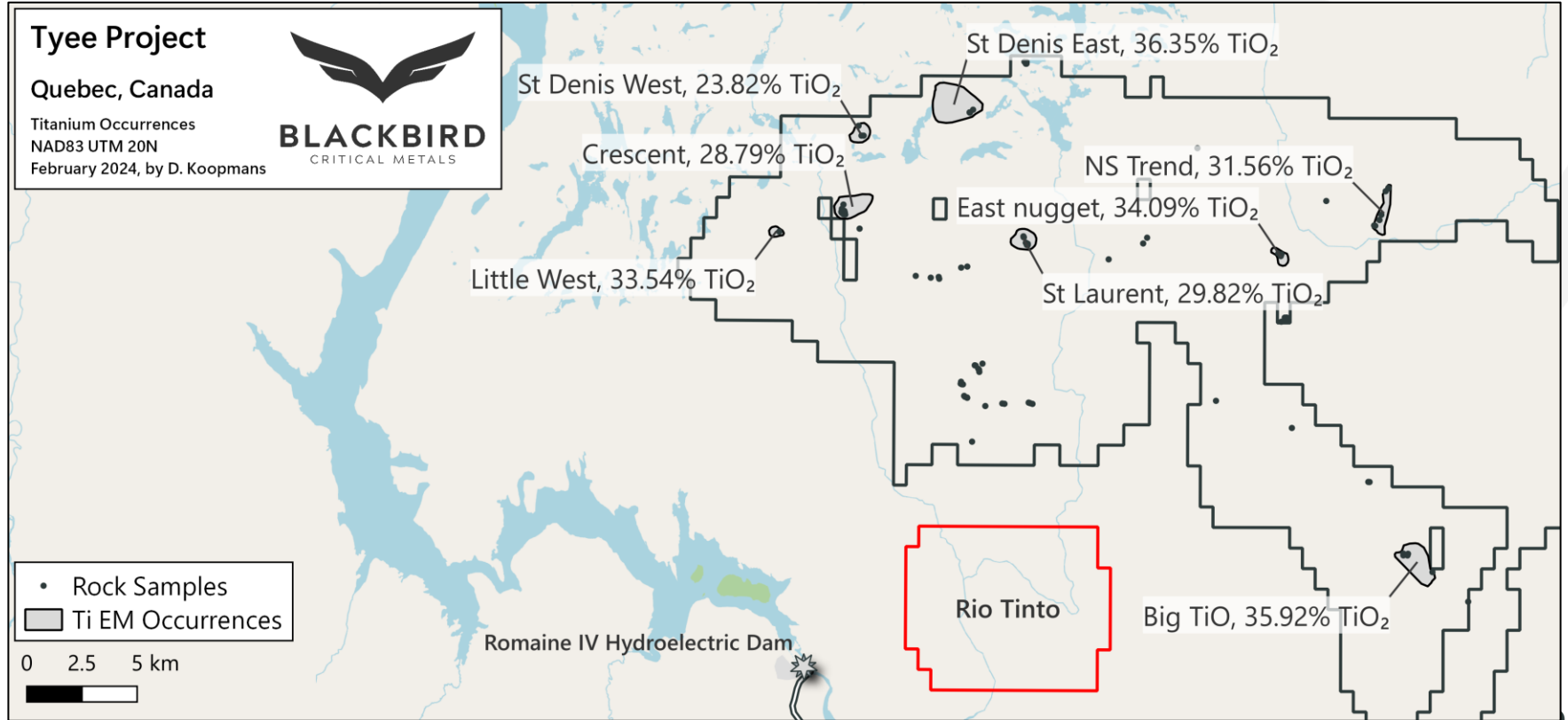
Grades of up to 36%  $\text{TiO}_2$ .

4 New Nickel Copper and Cobalt occurrences discovered.

Grades of up to 0.75% Ni in gossanous outcrop.

# NEW TITANIUM OCCURRENCES

Average grades over new titanium occurrences, full table on next slide



# POLYMETALLIC MINERALIZATION

Eight new high-grade titanium discoveries in a proven titanium district

Ilmenite is the principal ore of titanium and contains over 30% titanium by weight.

Grades of grab samples are up to 37.6% Titanium ( $\text{TiO}_2$ ), 42 g/t Scandium, 0.37% Vanadium ( $\text{V}_2\text{O}_5$ ) and 0.26%  $\text{Cr}_2\text{O}_3$ .

The highest average titanium grade is 36.35%  $\text{TiO}_2$  over 5 rock samples in the St. Denis East showing.

**Table 1. Rock sample results, average grades over titanium occurrences**

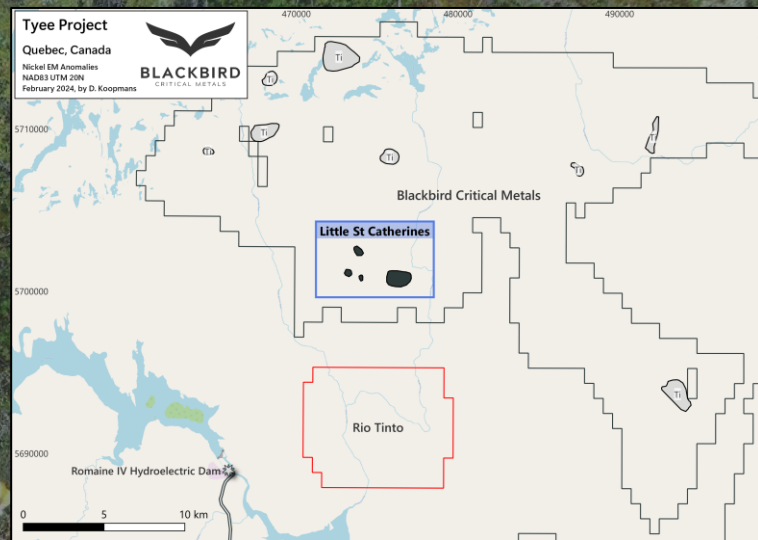
Showings	Samples (N)	$\text{TiO}_2\%$	$\text{V}_2\text{O}_5\%$	Sc g/t	$\text{Cr}_2\text{O}_3\%$
NS Trend	8	31.56	0.30	34.88	0.16
East Nugget	3	34.09	0.30	39.33	0.26
Big TiO	5	35.92	0.30	39.60	0.25
St Laurent	9	29.82	0.29	34.33	0.19
St Denis East	3	36.35	0.31	40.00	0.16
St Denis West	3	23.82	0.20	29.33	0.15
Crescent	12	28.79	0.26	31.58	0.18
Little West	1	33.54	0.33	40.00	0.10

# GOSSANS WITH UP TO 0.75% Ni

Four new nickel and copper bearing sulphide occurrences were discovered in 2023, collectively named the Little St. Catherines Target.

The sulphide occurrences are covered by thin overburden. Where exposed, the largest showing occurred over more than 300m strike length.

The gossans contain up to 0.75% nickel, 0.81% copper and 0.14% cobalt.



# 2024 DRILLING PROGRAM

High-confidence drill targeting with airborne EM and sampling results



The geological, geochemical geophysical data combined leads to high confidence drill targets in both the newly discovered nickel as well as the titanium occurrences.

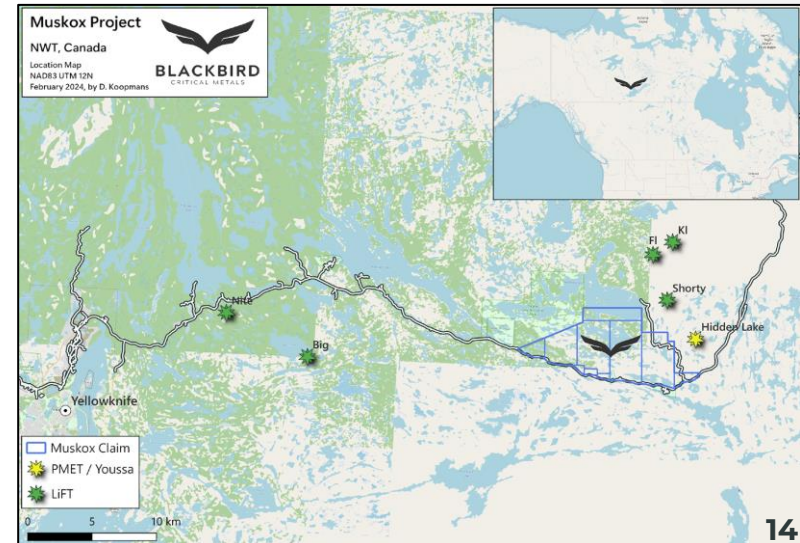
Blackbird expects to start RC drilling in late spring of 2024. The Company is fully funded for a helicopter-supported drilling program.

# THE MUSKOX LITHIUM PROJECT

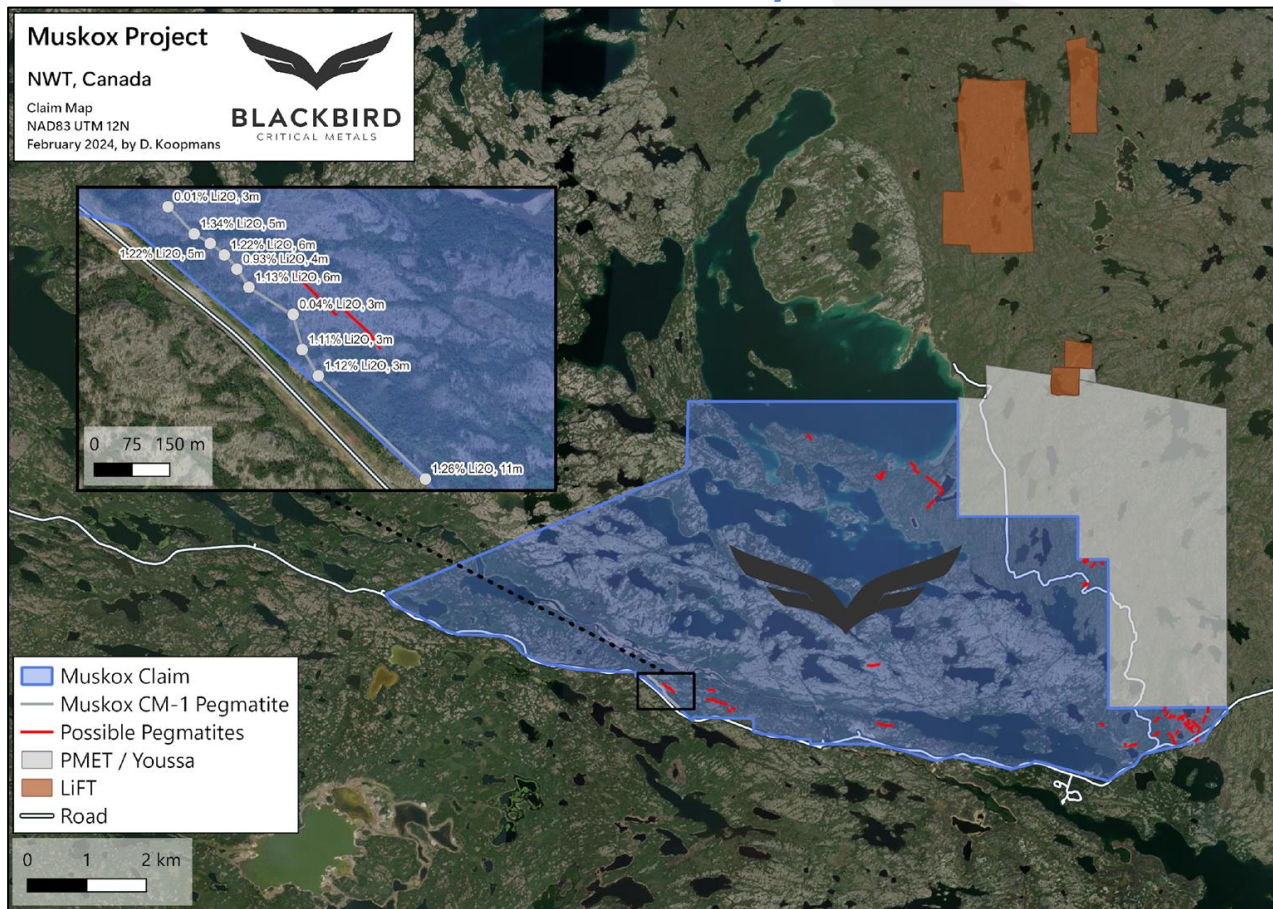
Lithium showings in the Yellowknife Pegmatite Province of the NWT

- 1 Located **45 km east** of Yellowknife, Northwest Territories within the Yellowknife Pegmatite Province. A large portion of the 50 km<sup>2</sup> land package remains under-explored.
- 2 Characterized by a coarse-grained, spodumene bearing pegmatite (the CM-1 pegmatite) of over **700m in strike length** and **up to 6 m wide** at surface located **within 100 m of an all-season government-maintained road**.
- 3 Recent channel-sampling indicates continuity of spodumene content (confirmed by recent XRD analysis) and true-width grades of **up to 1.22% Li<sub>2</sub>O over 6 m**. Other spodumene-bearing pegmatites ~1 km to the east of CM-1 have been documented. The project also hosts several gold showings.
- 4 Located **less than 3 km south of Li-FT (TSXV:LIFT) mineral leases**

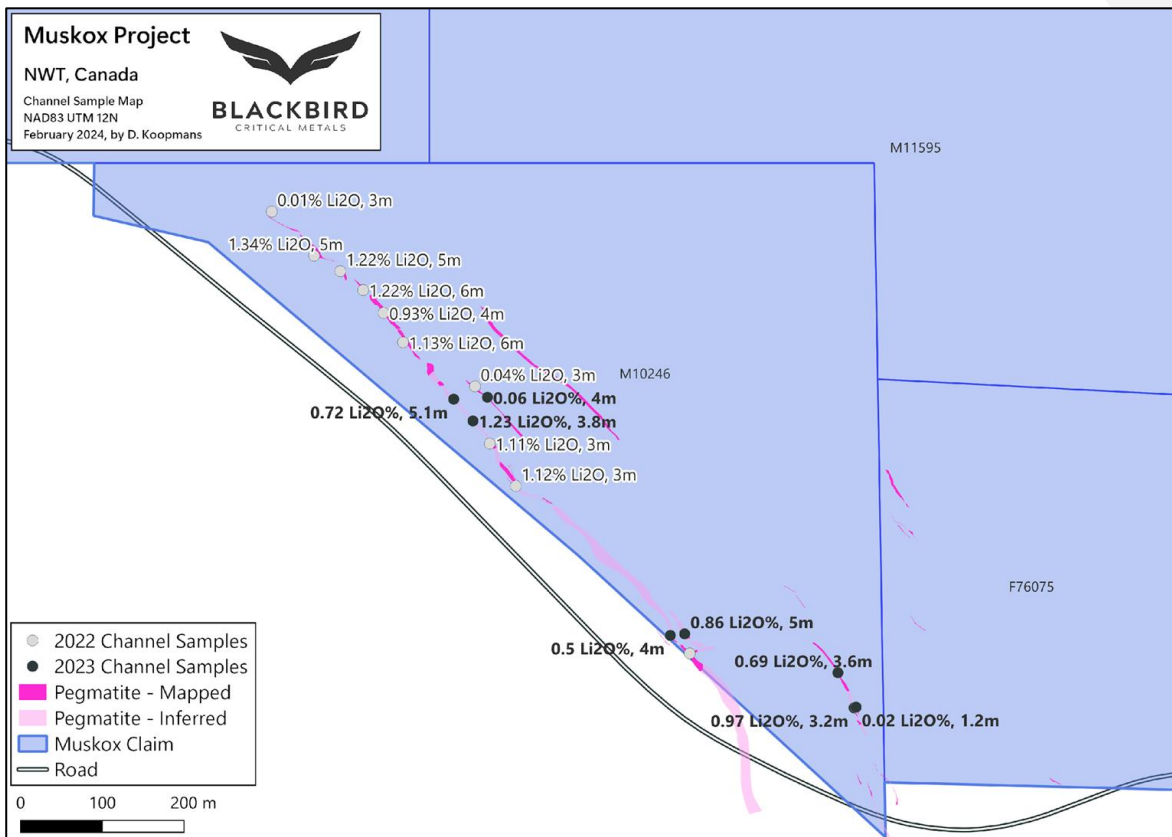
Pegmatite	Sample Type	Length (m)	Easting	Northing	Li <sub>2</sub> O(%)
CM-1	Channel	11	336232	6932233	1.26
CM-1	Channel	3	336019	6932438	1.12
CM-1	Channel	3	335987	6932490	1.11
CM-1	Channel	3	335969	6932560	0.04
CM-1	Channel	6	335881	6932614	1.13
CM-1	Channel	5	335804	6932701	1.33
CM-1	Channel	3	365720	6932774	0.01
CM-1	Channel	5	365772	6932720	1.34
CM-1	Channel	6	365832	6932678	1.22
CM-1	Channel	4	365857	6932650	0.93



# THE MUSKOX LITHIUM PROJECT, NWT



# 2023 CHANNEL SAMPLING RESULTS



## New Channel Sampling

Confirms grade continuity and has uncovered two more spodumene bearing pegmatites.

The newly uncovered dike can be traced for 100m before being obscured by overburden and contains up to 0.97% Li<sub>2</sub>O over 3.2 m.



# MANAGEMENT & ADVISORS

**JACOB  
VERBAAS**

**CEO**

Dr. Verbaas is an exploration geologist with an MSc. from Utrecht University and a PhD from Simon Fraser University. His strengths are regional targeting as well as identifying and executing project-scale exploration strategies. He has experience in Australia, northern Africa and Canada and has worked in executive roles for Canadian public exploration companies since 2017.

He found and staked the HSP nickel copper project during his time as VP Exploration with Go Metals and is a founder, director and CEO of CAVU Energy Metals, a copper exploration company that was acquired by Alpha Copper Corp. in 2022. Dr. Verbaas is a registered Professional Geologist with EGBC.

**JATINDER  
SANDHAR**

**CFO**

Jatinder Sandhar is the President of Sandhar Investments and has been since June 2010. Mr. Sandhar holds a Bachelor of Commerce degree and a Master of Business Administration from Guru Nanak Dev University, India and brings a wealth of knowledge and financial experience as a Chartered Professional Accountant and a Certified Management Accountant with the Chartered Professional Accountants of British Columbia.

Mr. Sandhar is also an active member of his community generously volunteering his time to benefit numerous not for profit organizations.

**RYAN  
VERSLOOT**

**PROJECT GEOLOGIST & QP**

Ryan Versloot is an exploration geologist with nearly 20 years of experience ranging from government-supported regional surveys to resource definition drilling on advanced stage projects and at operating mines.

As an exploration manager with Axiom Exploration Group, Mr. Versloot helps companies advance their projects through the efficient planning and execution of exploration campaigns. He pursued geoscience studies at the University of Waterloo and the University of British Columbia and is a registered Professional Geoscientist in British Columbia, Québec and Newfoundland & Labrador.

# DIRECTORS

**JOHN  
WENGER**

**DIRECTOR**

Mr. Wenger is VP Strategy and Chief Financial Officer of TSXV-listed Contact Gold Corp. From 2011 to 2017, Mr. Wenger served as Chief Financial Officer and Corporate Secretary of Liberty Gold (Pilot Gold), where he was part of a management team that raised over \$100 million, and successfully completed multiple property transaction deals and acquisitions. Mr. Wenger was Chief Financial Officer of Inflection Resources Ltd., a CSE-listed exploration company from 2020 to 2023. He has also served on the board of several exploration-stage companies. Previously, Mr. Wenger worked for Ernst & Young LLP from 2001 to 2011 where he acquired considerable experience in financial reporting for both Canadian and U.S. publicly listed companies, primarily in the mining industry. Mr. Wenger has been a Chartered Professional Accountant with the Chartered Professional Accountants of British Columbia since 2006.

**NORMAN  
BREWSTER**

**DIRECTOR**

Norman Brewster is President, Director and CEO of Cadillac Ventures Inc., with development projects in Ontario (copper) and New Brunswick (tungsten). He has served on many public and private company boards over his career in the mineral industry, including as the interim President and CEO of Iberian Minerals Corp., successfully financing, developing and putting into production the Aguas Tenidas Mine in Andalucia, Spain which became the region's largest employer. During his tenure, Mr. Brewster also led a committee in reviewing the successful bid by Trafigura Group to acquire Iberian Minerals Corp., in an all cash takeover.

**JASON  
RILEY**

**DIRECTOR**

Jason Riley is a corporate executive with a wealth of knowledge and experience in the Canadian capital markets. He is currently serving as a director of Bessor Minerals Inc., a junior mining exploration company, and Phoenix Copper Limited, a base and precious metals exploration and development company. He is also the Chairman, President, and CEO of ExGen Resources Inc., a mineral exploration company. Mr. Riley is also the CEO of EVOS Media Inc., a digital media company. Mr. Riley holds a Bachelor of Commerce in Finance from the University of British Columbia.

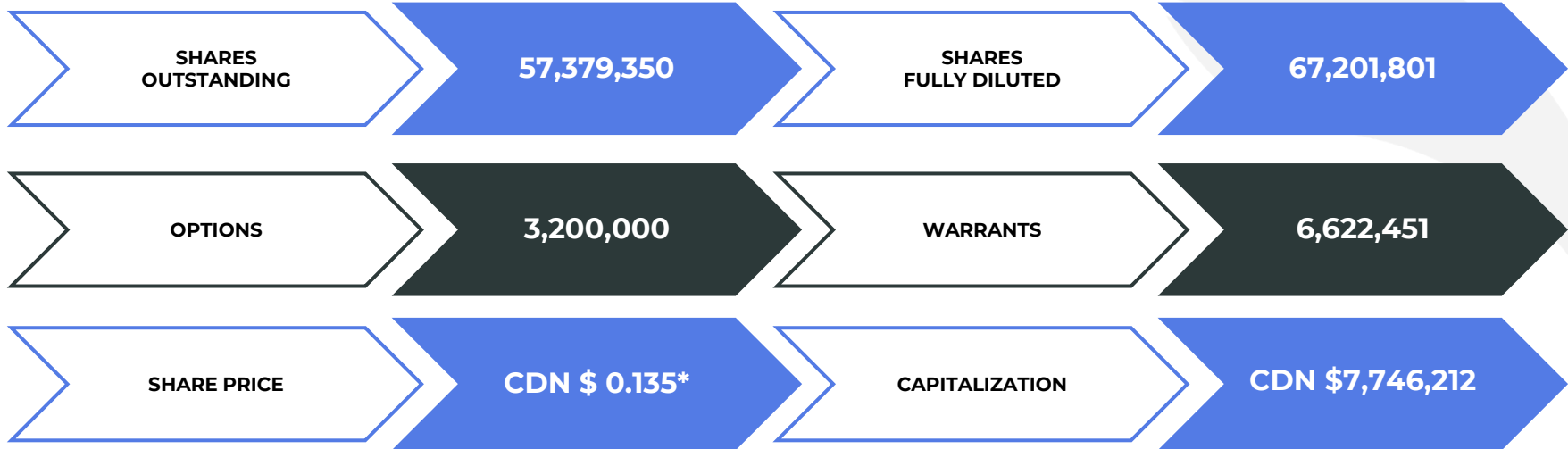
**ALLAN  
LARMOUR**

**DIRECTOR**

Allan Larmour has over 30 years of business experience and is a corporate executive having served on numerous public companies in a variety of roles including serving as a director of Norsemont Mining Inc., a gold and silver mineral exploration company with projects located in Chile.

Mr. Larmour holds a Bachelor of Science degree in Genetics and Bachelor of Applied Science degree in Electrical Engineering, both from the University of British Columbia and is a non-practicing Professional Engineer, registered with Engineers and Geoscientists BC.

# CAPITAL STRUCTURE



\*as of February 22<sup>nd</sup>, 2023

## CONTACT DETAILS

**Investor Relations:** Focus Communications

**Phone:** +1 647 689 6041

**Email:** [info@blackbirdmetals.ca](mailto:info@blackbirdmetals.ca)

**CEO:** Jacob Verbaas

**Email:** [ceo@blackbirdmetals.ca](mailto:ceo@blackbirdmetals.ca)