



***Focused on Expansion and Discovery
of District-Scale Gold and Copper
Assets in British Columbia***

JANUARY 2024 | [SUNSUMITMINERALS.COM](https://www.sunsumitminerals.com) | TSX-V: **SMN** | OTCQB: **SMREF**

FORWARD LOOKING STATEMENTS



Forward-Looking Information

Statements contained in this presentation that are not historical facts may be forward-looking statements, which involve risks, uncertainties and other factors that could cause actual results to differ materially from those expressed or implied by such forward-looking statements. In addition, the forward-looking statements require management to make assumptions and are subject to inherent risks and uncertainties. There is significant risk that the forward-looking statements will not prove to be accurate, that the management's assumptions may not be correct and that actual results may differ materially from such forward-looking statements. Accordingly, readers should not place undue reliance on the forward-looking statements. Generally forward-looking statements can be identified by the use of terminology such as "anticipate", "will", "expect", "may", "continue", "could", "estimate", "forecast", "plan", "potential" and similar expressions. These forward-looking statements are based on a number of assumptions which may prove to be incorrect which, without limiting the generality of the following, include: risks inherent in exploration activities; the impact of exploration competition; unexpected geological or hydrological conditions; changes in government regulations and policies, including trade laws and policies; failure to obtain necessary permits and approvals from government authorities; volatility and sensitivity to market prices; volatility and sensitivity to capital market fluctuations; the ability to raise funds through private or public equity financings; environmental and safety risks including increased regulatory burdens; weather and other natural phenomena; and other exploration, development, operating, financial market and regulatory risks. The forward-looking statements contained in this presentation are made as of the date hereof or the dates specifically referenced in this presentation, where applicable. Except as required by applicable securities laws and regulation, Sun Summit disclaims any intention or obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by applicable securities laws. All forward-looking statements contained in this presentation are expressly qualified by this cautionary statement.

National Instrument 43-101 Disclosure

This presentation has been approved by Sun Summit's Vice President Exploration, Ken MacDonald, P.Geo. and Technical Advisor, Christopher Leslie, P.Geo. a "Qualified Person" as defined in National Instrument 43-101 *Standards of Disclosure for Mineral Projects* of the Canadian Securities Administrators. They have not been able to verify the historical exploration data disclosed, including sampling, analytical and test data underlying the technical information in this presentation since such data is historical and the original drill core and samples are not readily available. Some technical information contained in this presentation is historical in nature and has been compiled from public sources believed to be accurate. This technical information has not been verified by Sun Summit and may in some instances be unverifiable dependent on the existence of historical drill core and samples.

Quality Assurance & Quality Control

Sun Summit has implemented a quality assurance and quality control program to ensure sampling and analysis of all exploration work is conducted in accordance with the best possible practices. All sampling programs are carried out in a careful and diligent manner using scientifically established sampling practices designed and tested to ensure that the results are representative and reliable. Quality control programs appropriate to the type of sample and the mineralization are implemented, including such measures as insertion of external blanks, standards and duplicate samples into the sample stream. The security of samples from sample acquisition to analysis is a vital component of the sampling process. Procedures include the use of secure core logging, sampling, storage and preparation facilities as appropriate and the prompt, secure and direct shipping of samples to the laboratories. Appropriate sample security procedures are employed given the geographic and topographic conditions and the logistics created by the site location.

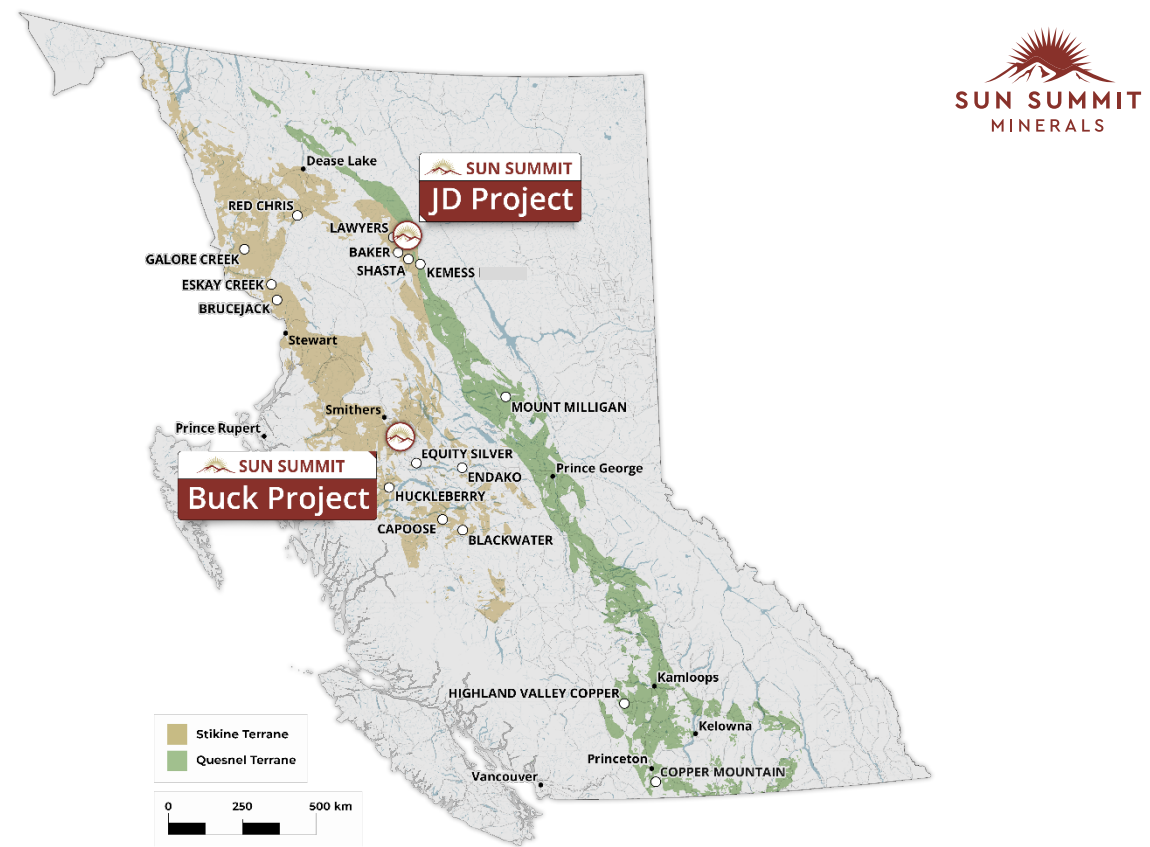
Company Highlights

JD PROJECT

- Metal endowed Toodoggone gold-copper mining district
- High-grade epithermal Au-Ag mineralization:
 - 35.7 m @ 7.3 g/t Au incl. 1 m @ 215.4 g/t Au (JD95-047)
 - 77 m @ 2.4 g/t Au incl. 12.6 m @ 10.8 g/t Au (JD12-003)
 - 22 m @ 11.7 g/t Au incl. 4.0 m @ 61.2 g/t Au (CZ97-008)
- Potential for porphyry-related Cu-Au mineralization
- Significant land package, ~15,000 hectares, 100% controlled
- Under-explored, significant discovery potential
- Emerging mineral district, renewed mining camp

BUCK PROJECT

- Buck Main Au-Ag-Zn
 - Bulk tonnage-style mineralization 1.07 g/t Au over 109 metres (BK21-017)
 - High-grade gold discovery 49.6 g/t Au over 1.5 metres (BK20-012)
- CR Cu-Mo-Au-Ag (acquired from Teck Resources)
 - Drill highlights: 168 m of 0.37% Cu (CR-07-14), 68 m of 0.50% Cu (CR05-03)
- Large tenure package, ~52,000 hectares, 100% controlled
- Existing infrastructure, year-round access, low cost of exploration



NEAR TERM CATALYSTS

JD PROJECT

- Compilation of historic property-wide exploration data
- Initiation of summer 2024 exploration program

BUCK PROJECT

- Initial Mineral Resources Estimate at Buck Main
- Drill target generation at additional exploration targets

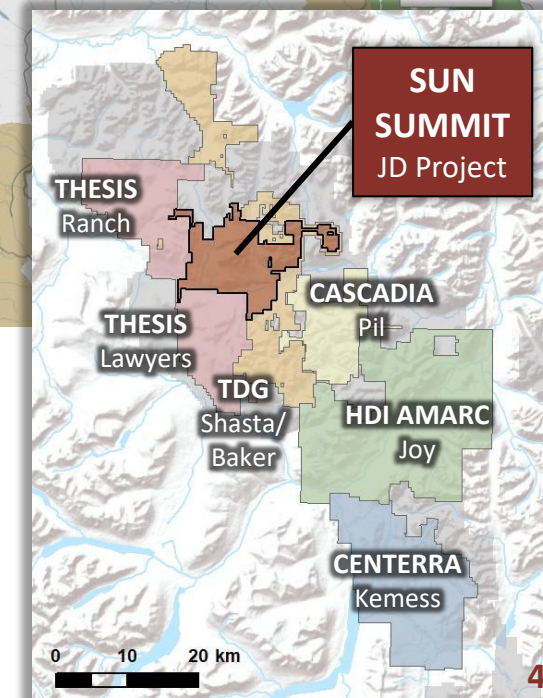
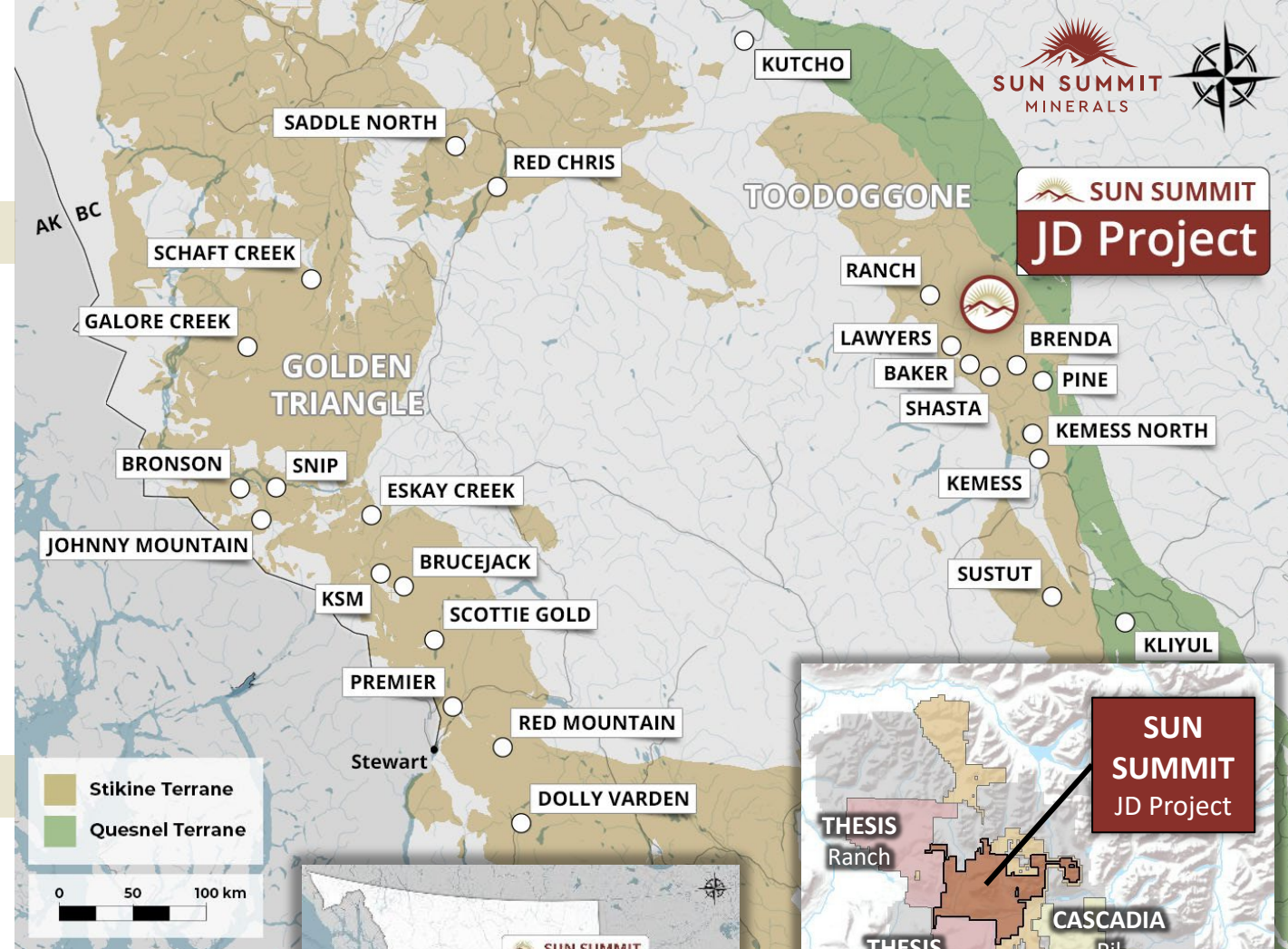
JD Project Highlights

PROLIFIC REGION IN BRITISH COLUMBIA

- Metal endowed Toodoggone Mining District
- World class Stikine Terrane, similar to Golden Triangle
- Renewal of historic mining camp: Kemess South Au-Cu Mine, Kemess East/North UG advanced exploration
- Emerging district: Lawyers, Ranch (Thesis), Shasta, Baker, Mets (TDG)
- Mining friendly, active jurisdiction
- Large land package, ~15,000 ha mineral tenure

EPITHERMAL AU-AG AND PORPHYRY CU-AU

- Unique opportunity to explore for two deposit types:
 - Epithermal gold-silver mineralization
 - Porphyry-related copper-gold mineralization
- Significant historic drilling, holes selectively sampled
- Strong multi-element soil anomalies across several targets
- Poorly explored, significant discovery potential



JD PROJECT

Emerging Mining District



TOODOGGONE MINERAL BELT

- Historically significant region, existing mining camp
- Adjacent to high-grade epithermal gold systems:
 - Lawyers (Thesis Gold):** 3.5 Moz AuEq (3.14 M&I, 0.4 I)¹
 - Ranch (Thesis Gold):** 19.56 g/t Au over 34 m in drilling¹
 - Shasta & Baker (TDG Gold):** 401 koz Au @ 0.99 g/t Au (Indicated) and 382 koz Au @ 0.77 g/t Au (Inferred)²
- Near large bulk-mineable porphyry copper-gold deposits:
 - Kemess South, Kemess East & North UG (Centerra)**
- Mining friendly and low-risk jurisdiction



SIGNIFICANT LAND PACKAGE

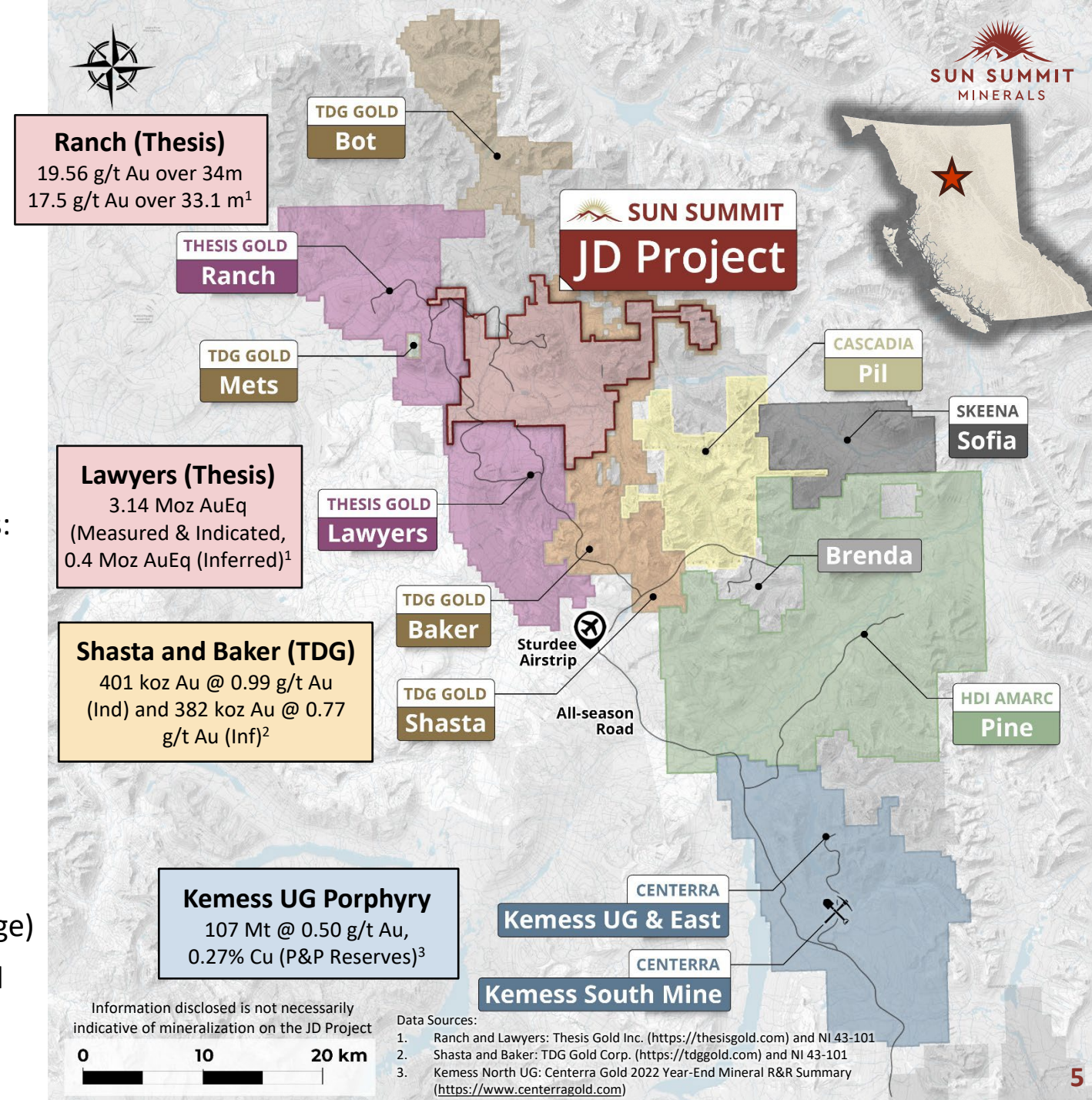
- Mineral claims covering 15,000 ha / 150 km²



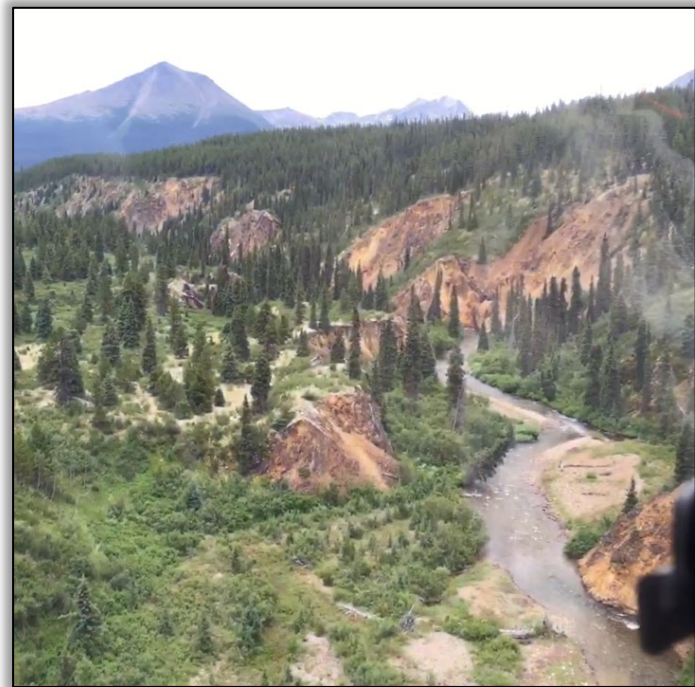
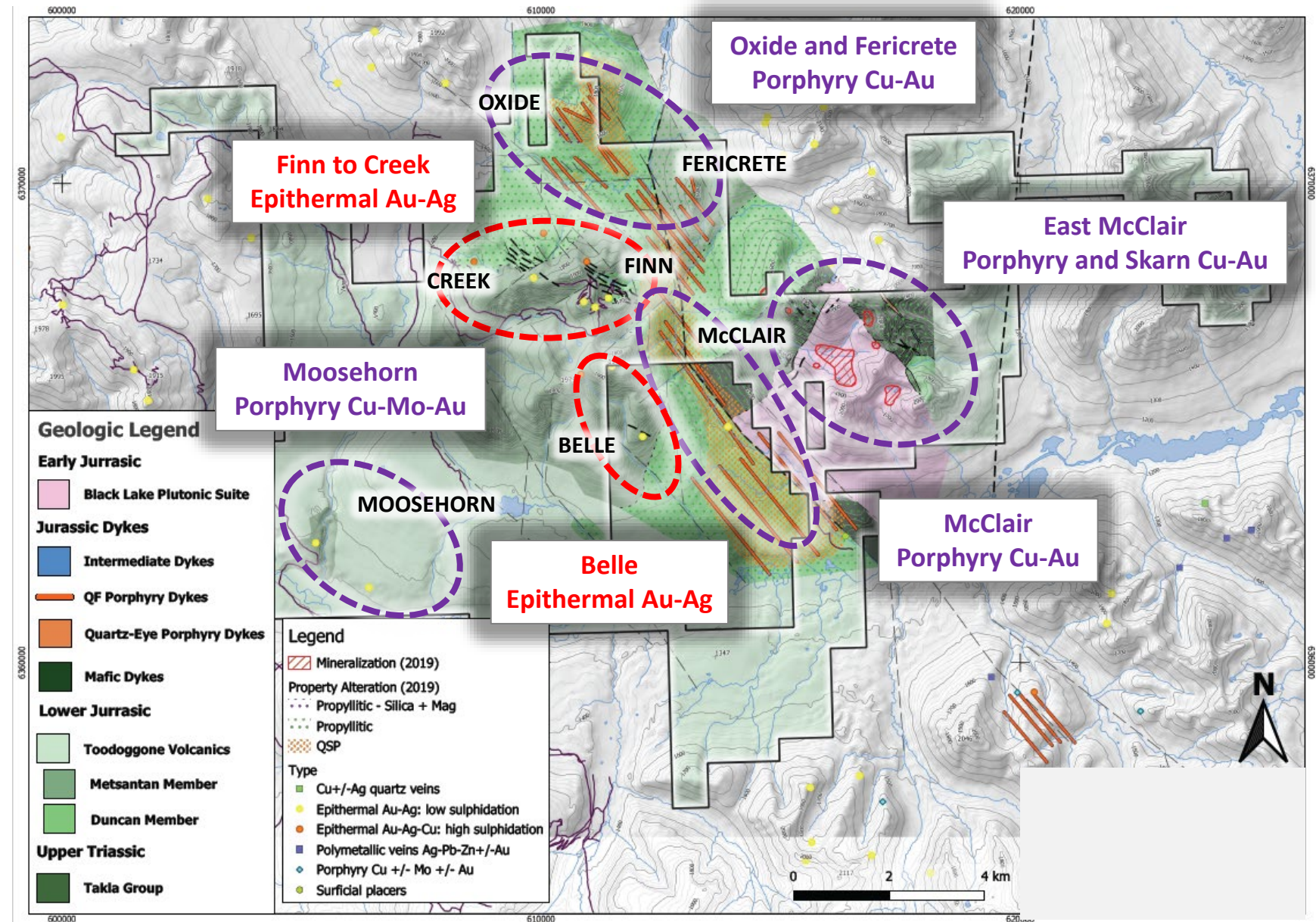
EXISTING INFRASTRUCTURE

- All-season access road from Prince George nearby
- Close to Sturdee Airstrip (Terrace, Smithers, Prince George)
- Proximal to Kemess South mine hydroelectric power grid

Drill intervals highlighted are downhole core lengths. True widths are unknown.



JD PROJECT - Multiple Gold and Copper Targets



JD PROJECT

Epithermal Gold Targets

High-Grade Epithermal Gold-Silver

- Drilling confirmed continuous nature of high-grade near-surface Au-Ag mineralization
- Structurally controlled mineralization
- Historical drill core only selectively sampled
- Under explored, remains open

FINN ZONE 268 historical drillholes

Hangingwall

35.7 m @ 7.3 g/t Au incl. 1 m @ 215.4 g/t Au (JD95-047¹)

77 m @ 2.4 g/t Au incl. 12.6 m @ 10.8 g/t Au (JD12-003²)

Footwall

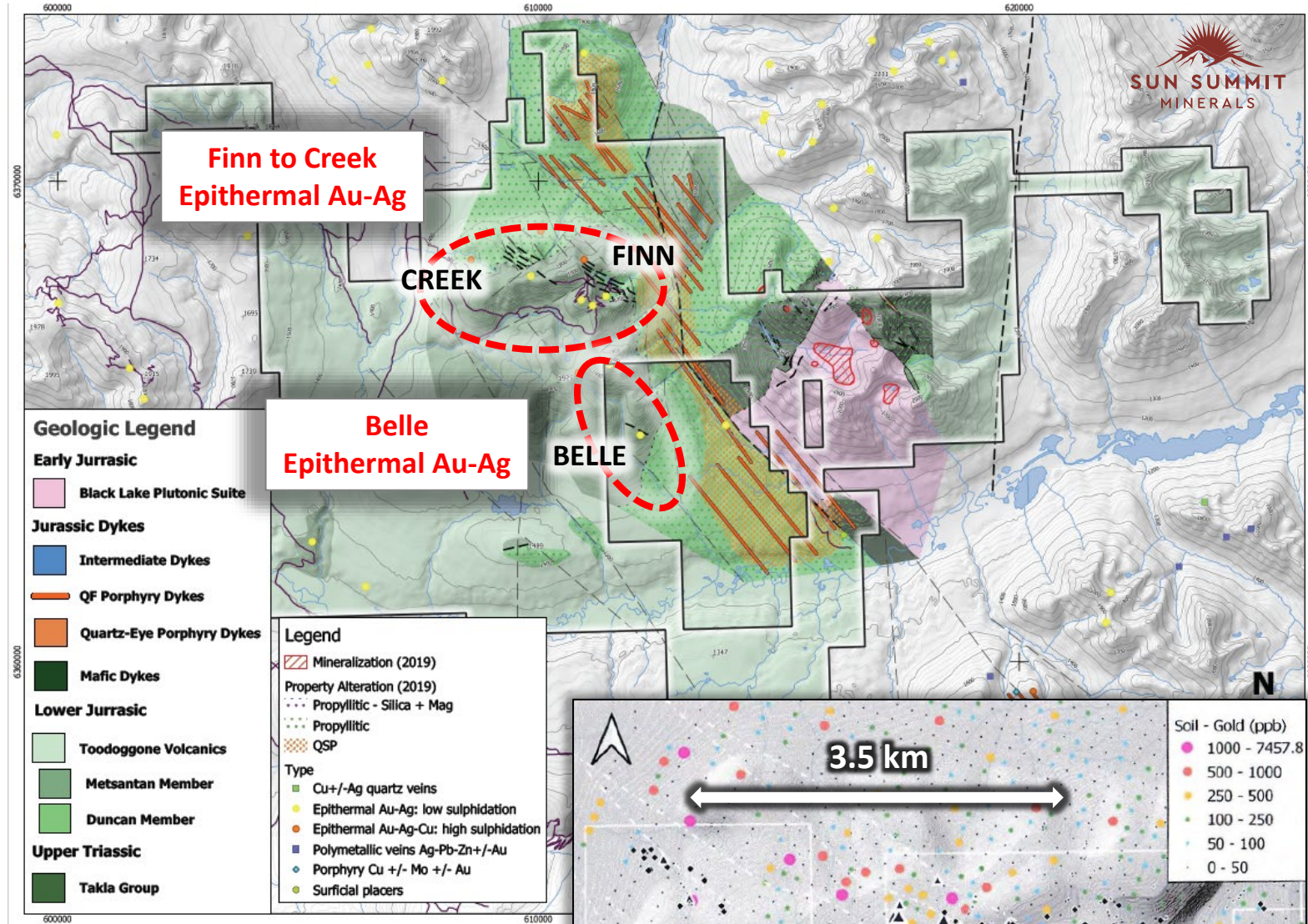
91 m @ 1.0 g/t Au from surface (JD12-009²)

CREEK ZONE 20 historical drillholes

87 m @ 3.6 g/t Au incl. 22 m @ 11.7 g/t Au

and incl. 4 m @ 61.2 g/t Au (CZ97-008³)

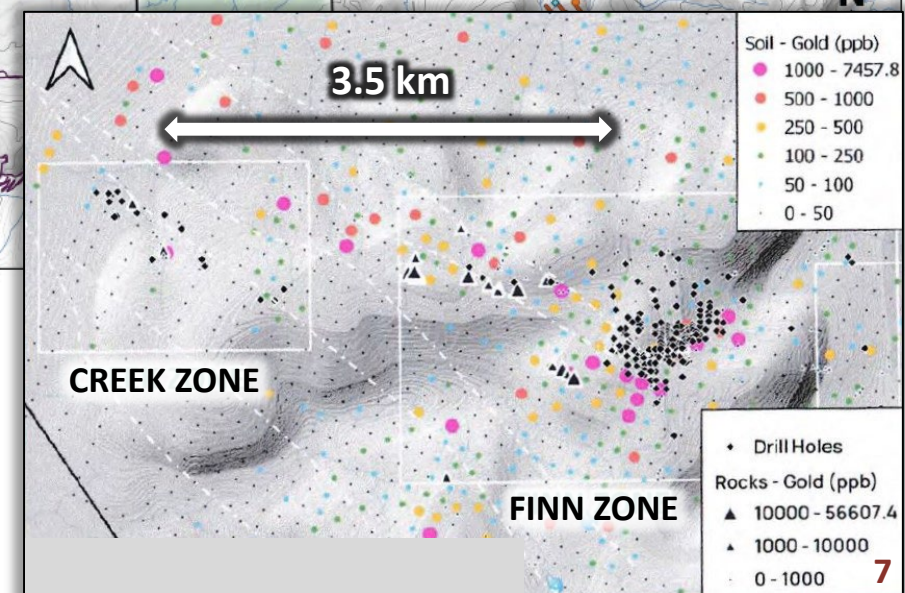
Drill intervals highlighted are downhole core lengths. True widths are unknown.



Drill hole source data from:

1. Krause (1996) AR 24284
2. McBride (2013) AR 33556
3. Hawkins (1998) AR 25757

<https://apps.nrs.gov.bc.ca/pub/aris>



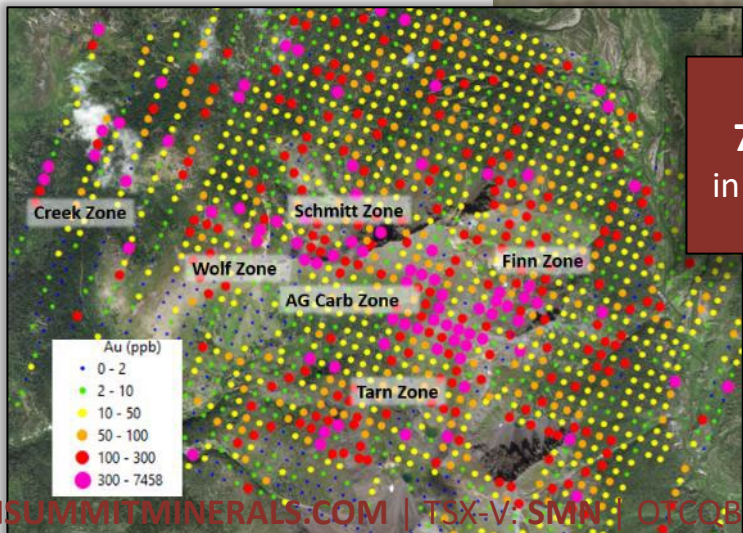
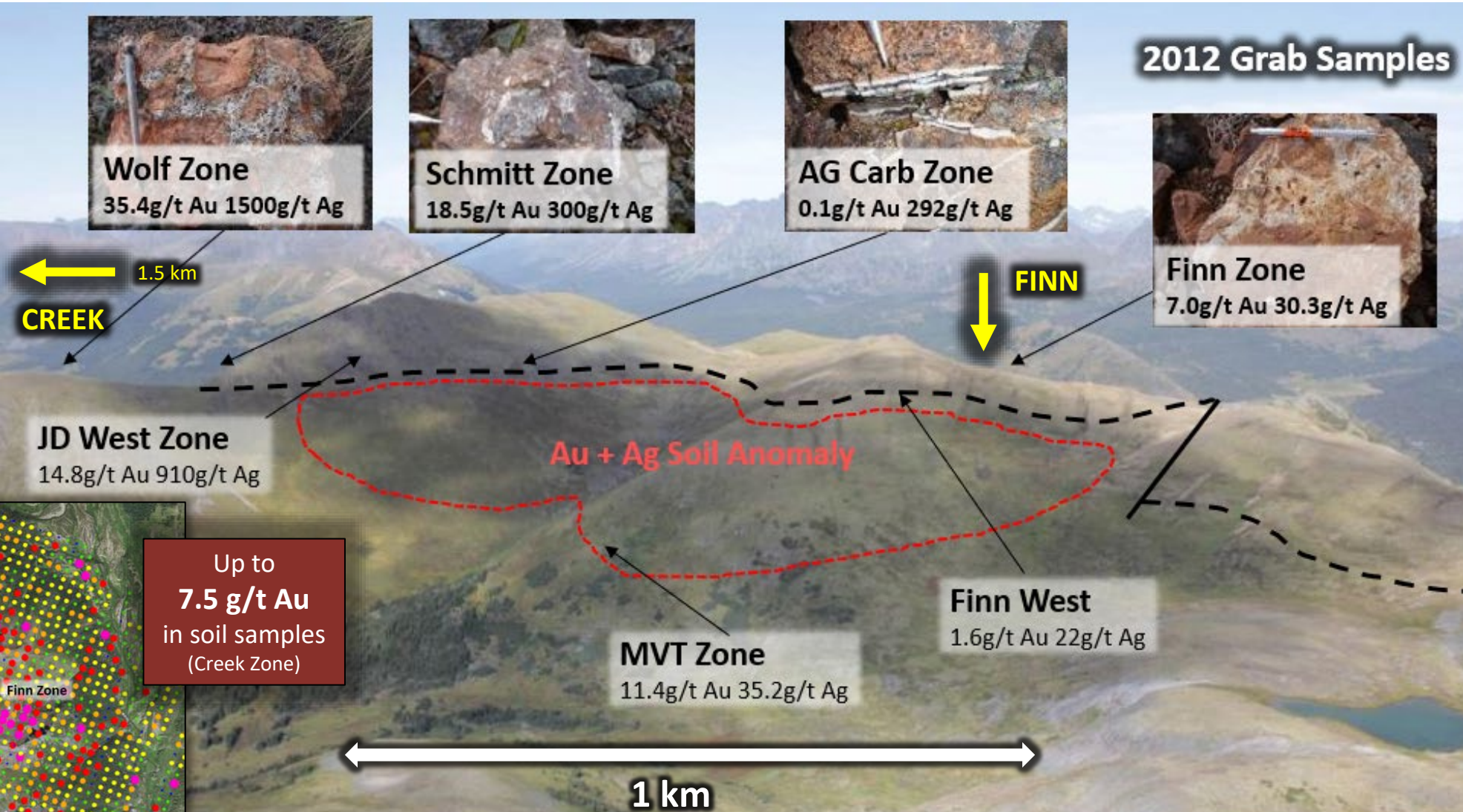
JD PROJECT

Surface Mineralization

Rock samples

35.4 g/t Au, 1500 g/t Ag
 18.5 g/t Au, 300 g/t Ag
 14.8 g/t Au 910 g/t Ag

- Broad zones of strong Au + Ag soil anomalism
- Underexplored, untested targets, significant discovery potential



Rock sample source data from:
 McBride (2013) AR 33556
 McBride and Leslie (2014) AR 34762
<https://apps.nrs.gov.bc.ca/pub/aris>

Looking NE

JD PROJECT

Porphyry Targets

Porphyry Copper-Gold Potential

- Numerous poorly tested porphyry-related copper targets that warrant significant exploration
- Strong porphyry-related alteration
- **Potential “porphyry roots” to shallow epithermal systems**
- Flat-lying stratigraphy; epithermal-related systems are preserved on ridge tops and porphyry systems found in valley bottoms

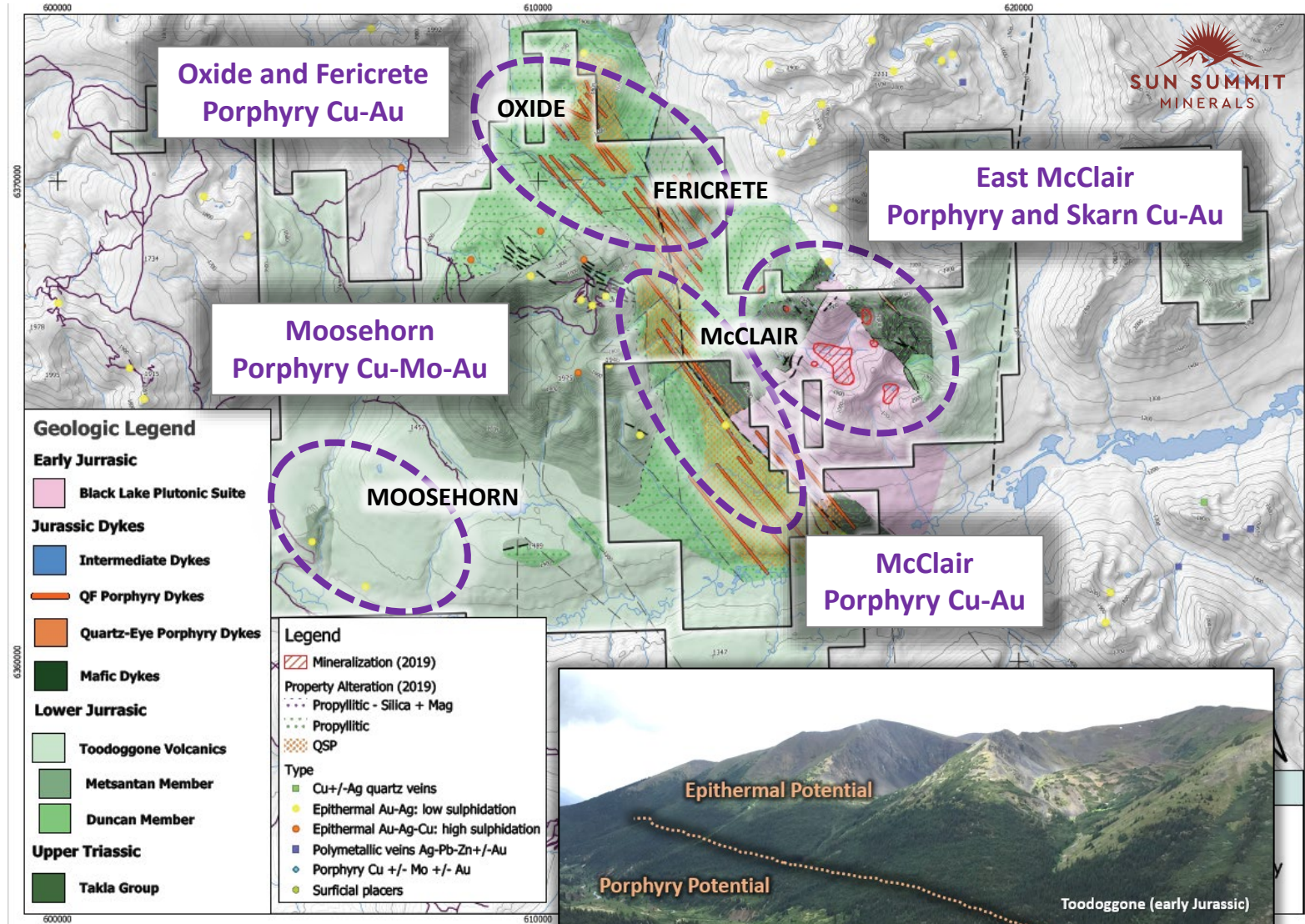
McCLAIR PORPHYRY TARGET

JD-13-025¹ bottomed in **0.46% Cu over 1.4 m** (@230 m)

McCLAIR EAST TARGET

1.5% Cu, 1.32% Cu, 0.77% Cu in rock samples ²

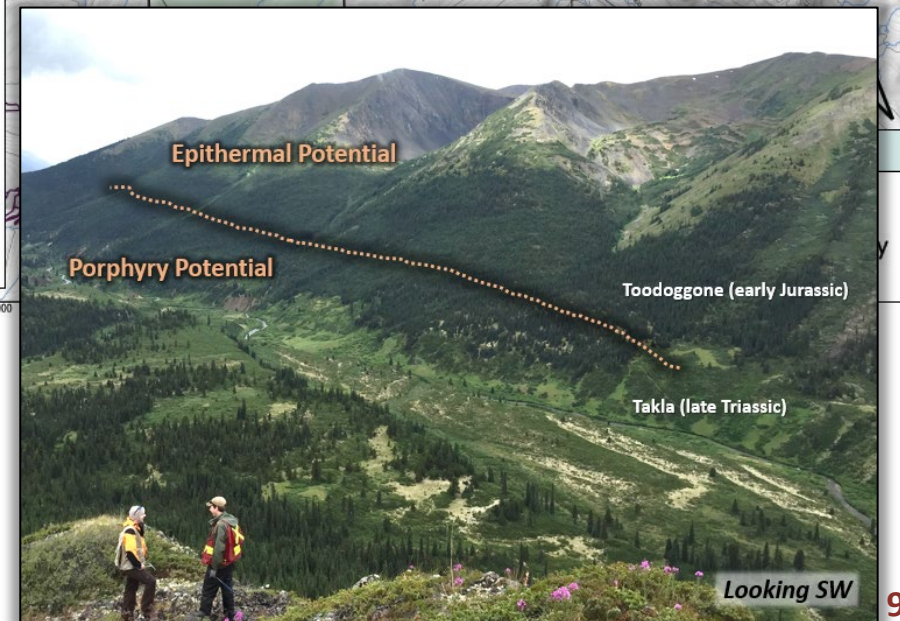
Drill intervals highlighted are downhole core lengths. True widths are unknown.



Map Source: AR 39106
(Gallagher 2020)

Drill hole and sample source data from:

1. McBride and Leslie (2014) AR 34762
2. Gallagher (2020) AR 39106
<https://apps.nrs.gov.bc.ca/pub/arid>



BUCK PROJECT

District Scale Potential



Large 52,000 ha / 520 km² property

Near Houston, B.C., 100% controlled

Houston 20 min drive

Smithers 1 hr drive



Emerging mineralized belt

Mining friendly jurisdiction, close proximity to former and developing mines:

Equity Silver Mine (Newmont)

Huckleberry Copper Mine (Imperial Metals)

Blackwater Gold Mine (Artemis Gold)



Existing infrastructure

Major highway, roads, power, rail, gas line



Direct access to target area being explored

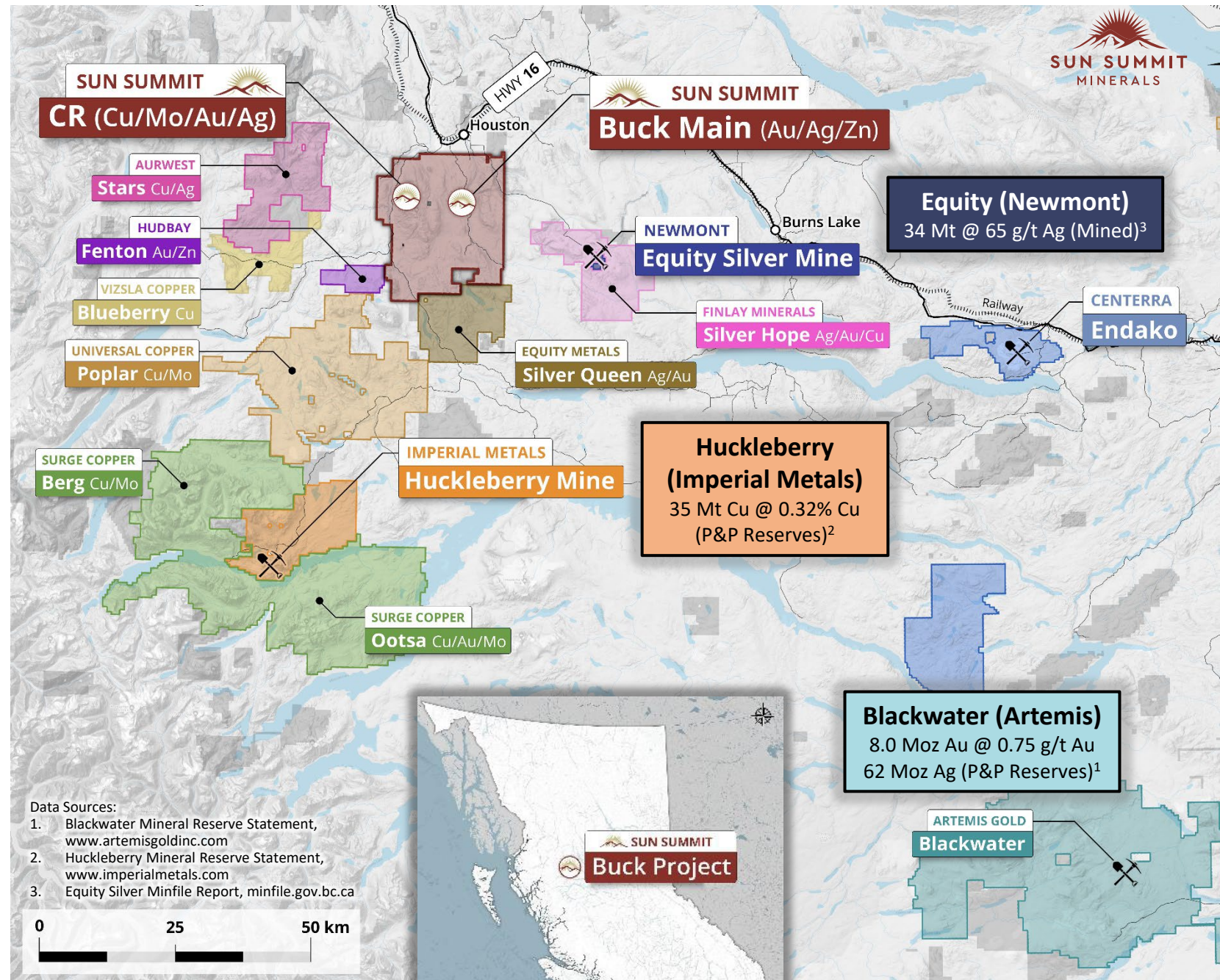
Through forestry roads and trails



Year-round exploration access



Low cost of exploration



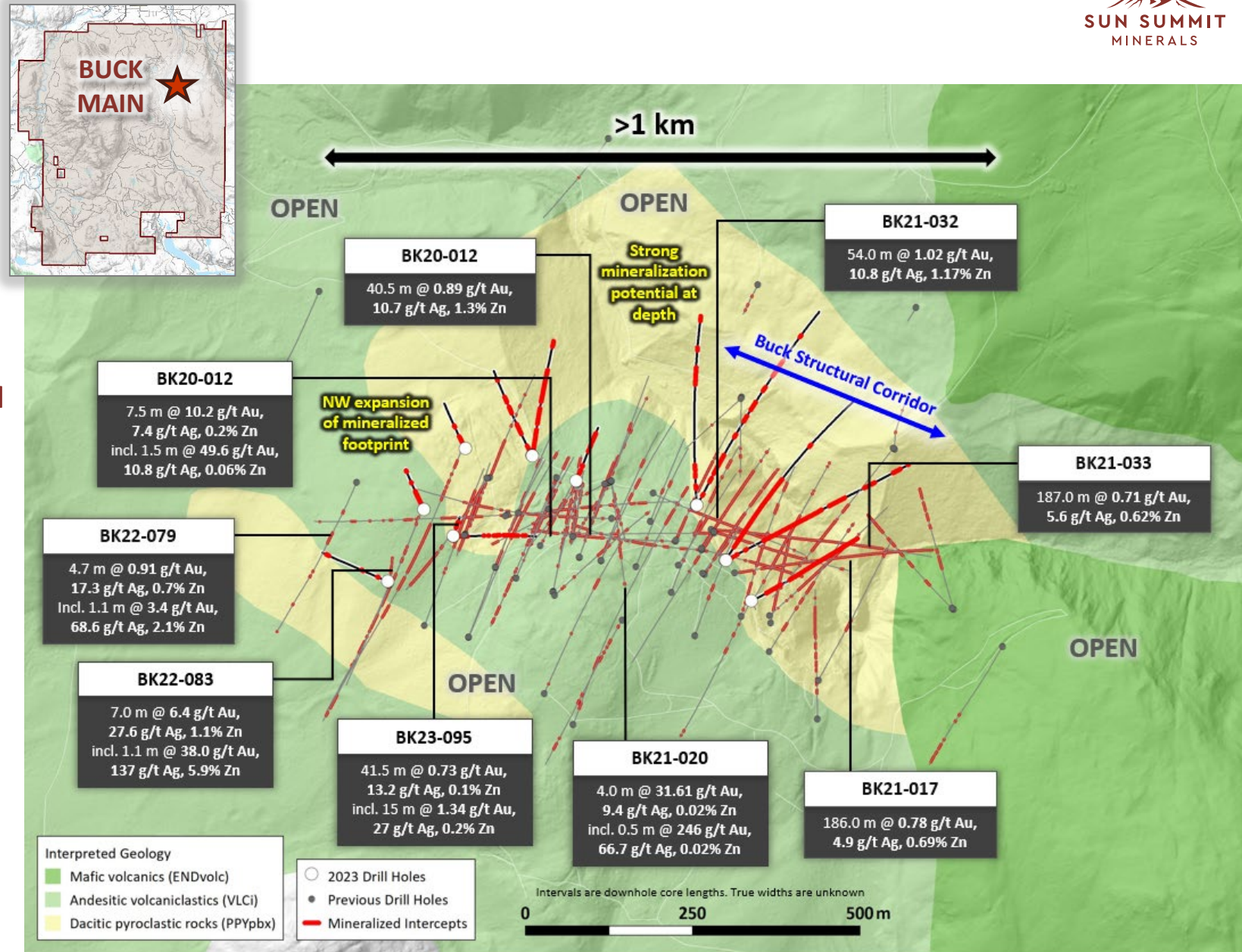
Information disclosed is not necessarily indicative of mineralization on the Buck Project

BUCK MAIN

Drilling and Initial MRE

- Initial Mineral Resource Estimate (MRE):**
Expected completion Q1 2024
- Over 34,000 m drilled in 98 drill holes**
- Open in all directions and at depth:** Results indicate **significant mineralization extends laterally beyond limits of previous drilling and defines strong depth potential**
- Broad intercepts of near surface bulk tonnage-style disseminated mineralization:**
 - 1.07 g/t Au, 5.5 g/t Ag, 0.65% Zn over 109 m (BK21-017)
 - 0.67 g/t Au, 4.4 g/t Ag, 0.46% Zn over 187 m (BK21-032)
 - 0.71 g/t Au, 5.6 g/t Ag, 0.62% Zn over 187 m (BK21-033)
 - 0.68 g/t Au, 4.8 g/t Ag, 0.46% Zn over 175 m (BK21-038)
- Significant high-grade zones:**
 - 49.6 g/t Au, 10.8 g/t Ag, 0.06% Zn over 1.5 m (BK20-012)
 - 246 g/t Au, 66.7 g/t Ag, 0.02% Zn over 0.5 m (BK21-020)
 - 31.3 g/t Au, 37.0 g/t Ag, 3.68% Zn over 1.0 m (BK21-035)
 - 38.0 g/t Au, 137.0 g/t Ag, 5.9% Zn over 1.1 m (BK22-083)

Drill intervals highlighted are downhole core lengths. True widths are unknown.



BUCK MAIN

Progression from 2020 to 2023

~400% expansion of mineralized envelope over 4 yrs

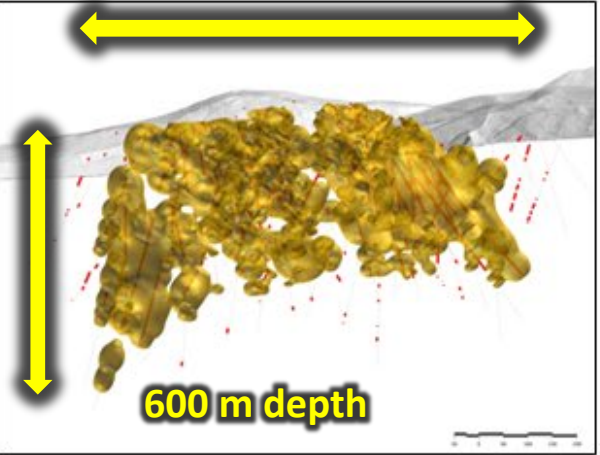
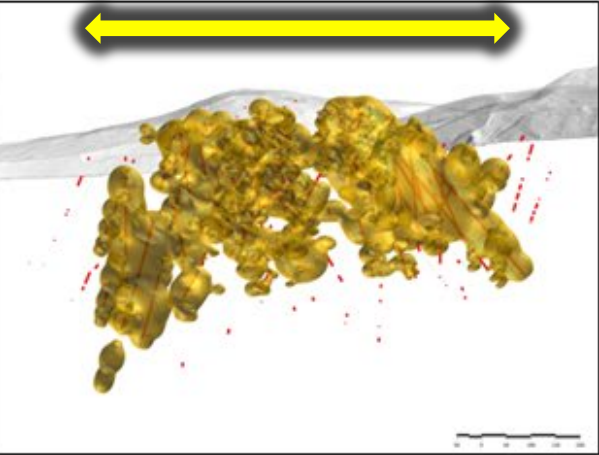
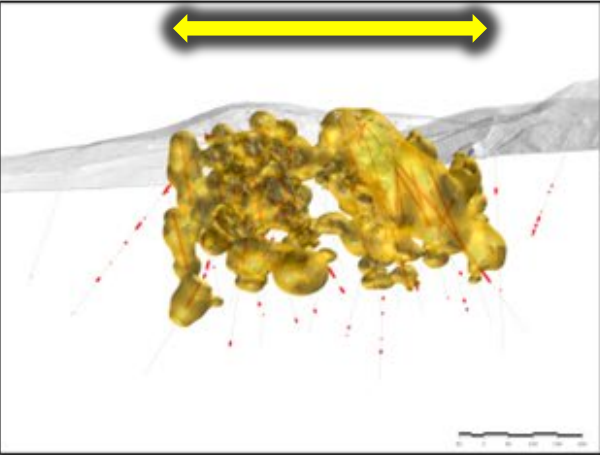
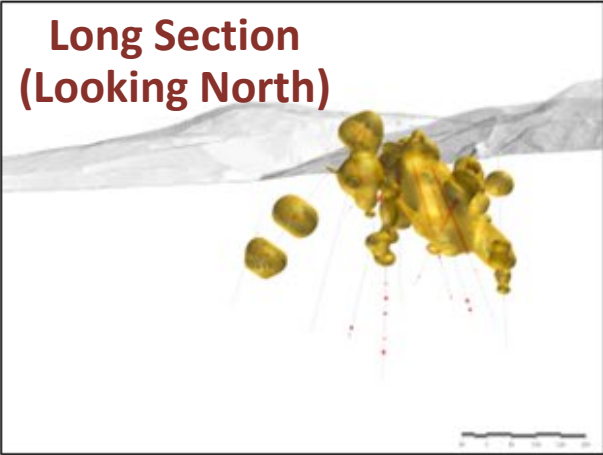
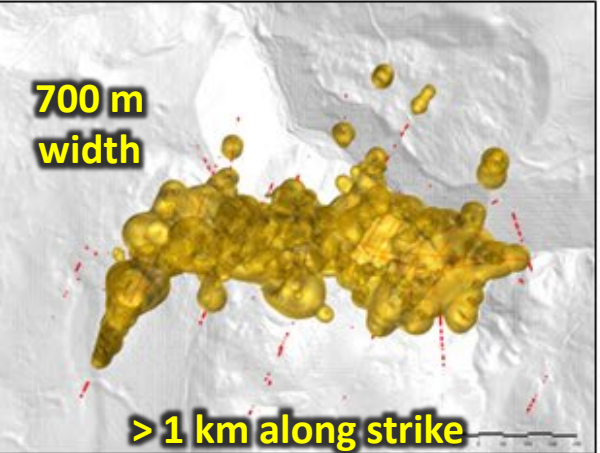
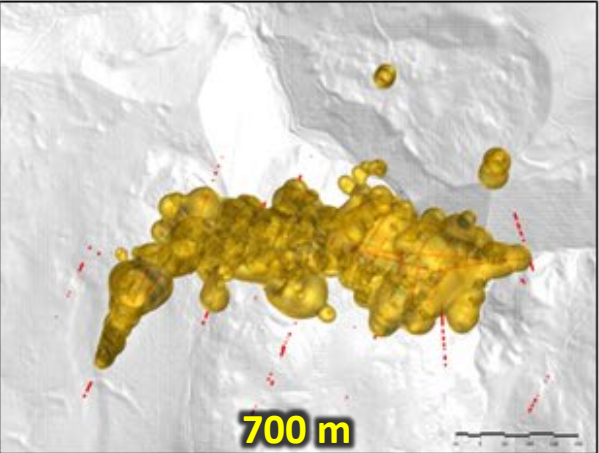
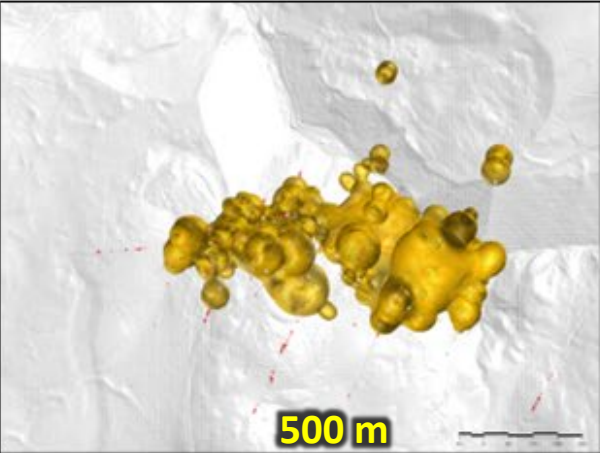
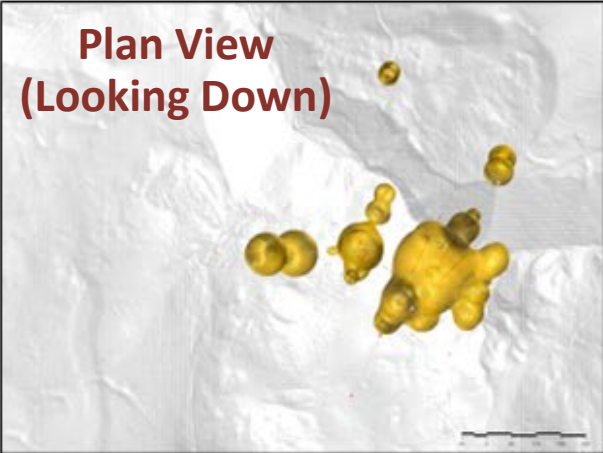
Based on Sun Summit's drill programs

2020 Drilling
15 holes for 6,000 m
(total drilling)

2021 Drilling
66 holes for 23,500 m
(total drilling)

2022 Drilling
84 holes for 30,600 m
(total drilling)

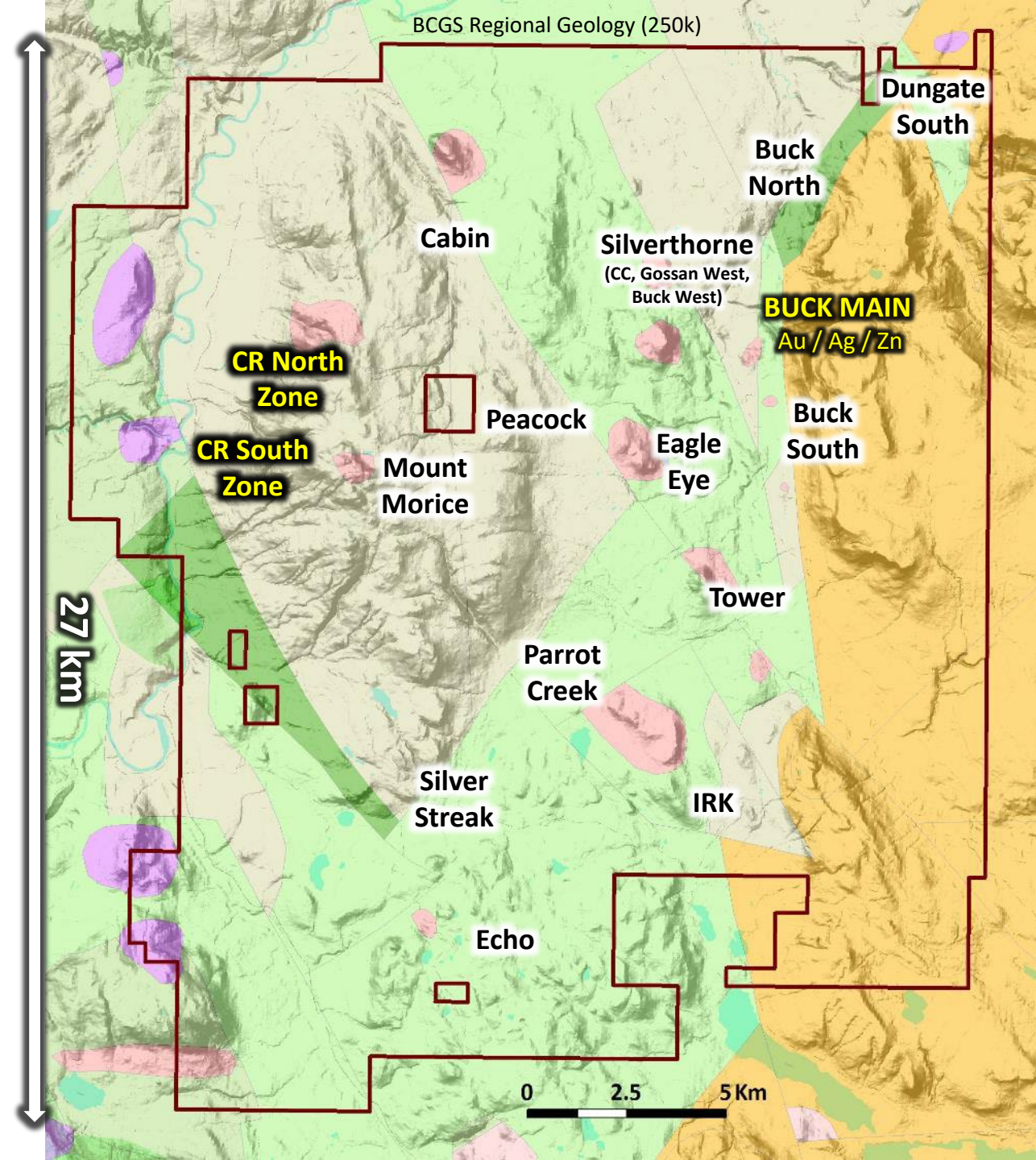
2023 Drilling
98 holes for 34,500 m
(total drilling)



BUCK PROJECT

Potential for Discovery

- **Multiple under-explored targets** within recently expanded 52,000 ha tenure package
- Acquisition of the **CR property from Teck**, a drill-ready Au-Ag-Cu-Mo property
- **Significant discovery potential across the project:** Numerous multi-element soil anomalies have been identified with coincident geophysical anomalies
- **Recently completed field exploration:** Additional under-explored targets across the project area are being explored and potentially advanced to drill-ready stage
- **Scout drilling on first two targets completed:** IRK and Eagle Eye targets intersected strong alteration and zones of anomalous zinc and silver
- **Multiple exploration techniques necessary for targeting in areas with little outcrop;** overlying rock can obscure geochemical signatures

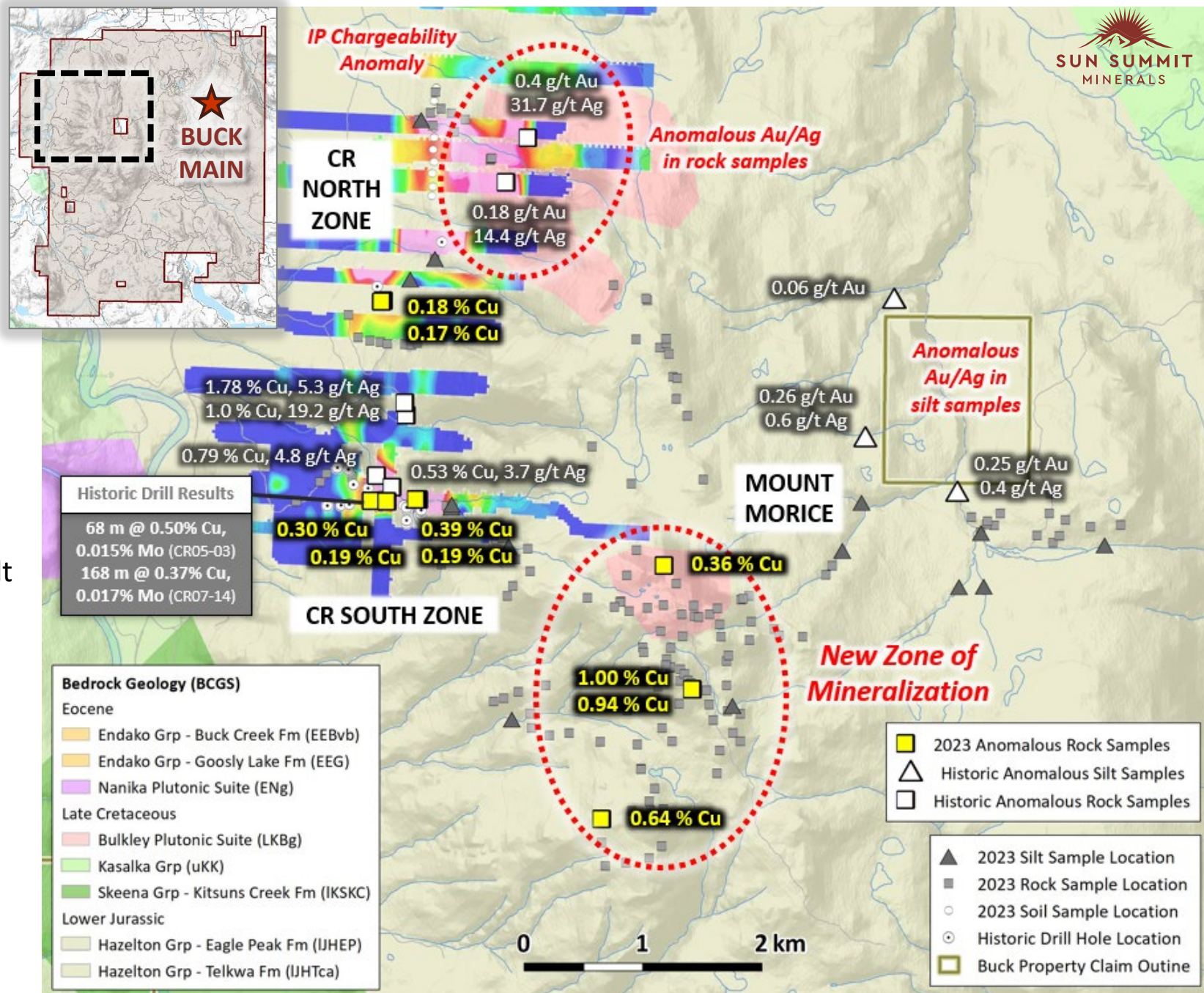


BUCK PROJECT

CR and Mount Morice

- New zone of strong copper mineralization:** Rock samples returned anomalous results in a new zone that has seen limited exploration:
 - 1.00% Cu and 3.2 g/t Ag
 - 0.94% Cu and 4.1 g/t Ag
- Target areas show **strong porphyry-related mineralization and alteration** and remain open for expansion
- A total of 230 surface samples were collected in high-priority areas (203 rock samples, 17 silt samples, and 10 soil samples)
- Anomalous silt samples near Mount Morice:**
 - 0.26 g/t Au, 0.25 g/t Au, 0.6 g/t Ag
- Cu-Mo porphyry-style mineralization at CR South Zone;** historical drill highlights include:
 - 168 m at 0.37% Cu, 0.017% Mo (CR-07-14)
 - 68 m at 0.50% Cu, 0.015% Mo (CR05-03)
 - 105 m at 0.35% Cu, 0.024% Mo, ending in 0.50% Cu (CR07-15)

Drill intervals highlighted are downhole core lengths. True widths are unknown.



Share Structure



Outstanding Shares	105,601,688
Warrants	32,280,102
Options	5,795,000
Fully Diluted	143,676,790

Share structure as of January 15, 2024

52 week high/low	\$0.19/\$0.03
Market Capitalization	~\$5 Million CAD
Working Capital	~\$1.0 Million CAD

~6.3M warrants expiring March 25, 2024 (\$0.70)
~26M warrants expiring May 10, 2025 (\$0.165)

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Oversubscribed financing May 2023:
\$2.89M (\$0.11 NFT, \$0.12 FT)

Average Daily Volume: ~150,000



Sun Summit Minerals Management & Advisors

Proven Track Record
in shareholder wealth creation

Over 100 Years
collective mining experience

A Modern Approach
to mineral discovery through innovative exploration methods

Directors

Brian Lock | *Executive Chairman*

Andrew Carstensen, P.Geo. | *Director*

Craig B. Prenter, CGA, CPA | *Director*

Purni Parikh | *Director*

Management & Advisors

Sharyn Alexander, M.Sc. | *President*

Robert D. Willis, B.Sc., P.Eng. | *Senior Advisor*

Ken MacDonald, P.Geo. | *Vice President of Exploration*

Christopher Leslie, Ph.D., M.Sc., P.Geo. | *Technical Advisor*

Waseem Javed, CPA, CA | *CFO*



Sun Summit Minerals

Why Invest?

Value Proposition



GOLD-SILVER-COPPER PROJECTS IN BRITISH COLUMBIA

- **Buck Project** (Epithermal Au-Ag, Porphyry Cu-Mo)
- **JD Project** (Epithermal Au-Ag, Porphyry Cu-Au)



MINING FRIENDLY REGION

- Existing infrastructure & access
- Transparent permitting process, low-risk jurisdiction



EXPERIENCED MANAGEMENT & TECHNICAL TEAM

- A modern approach to mineral exploration
- Strategic shareholder wealth creation



ACCESS TO CAPITAL FOR ONGOING EXPLORATION

Upcoming Catalysts

JD PROJECT

**EXTENSIVE HISTORIC DATA REVIEW AND
COMPILATION UNDERWAY; Q4 2023 / Q1 2024**

**COMMENCEMENT OF AGGRESSIVE
EXPLORATION PROGRAM; Summer 2024**

BUCK PROJECT

**INITIAL MINERAL RESOURCE ESTIMATE ON
BUCK MAIN; Expected completion Q1 2024**

**ADVANCEMENT OF EXPLORATION TARGETS
TO DRILL-READY STAGE; Drill target generation
at CR and Mount Morice**

SUNSUMMITMINERALS.COM
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Sharyn Alexander, M.Sc.

President

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JD Property

Acquisition Terms to Earn 100%

- Upon signing formal agreement and Exchange approval:

\$175,000 cash | 2,000,000 shares

- First Anniversary Dec 2024:

\$200,000 cash | 1,000,000 shares | \$2,500,000 expenditure

- Second Anniversary Dec 2025:

\$200,000 cash | 1,000,000 shares | \$3,000,000 expenditure

- Third Anniversary Dec 2026:

\$200,000 cash | 1,000,000 shares | \$3,500,000 expenditure

- Fourth Anniversary Dec 2027:

\$200,000 cash | 1,000,000 shares | \$4,000,000 expenditure

- Fifth Anniversary Dec 2028:

\$200,000 cash | 1,000,000 shares | \$4,500,000 expenditure

- Sixth Anniversary Dec 2029:

1,000,000 shares | \$5,000,000 expenditure

TOTAL \$1,175,000 payment 8,000,000 shares
\$22,500,000 exploration expenditure

This acquisition is subject to Exchange approval

- 2% net smelter return (NSR) royalty on the JD claims, which can be reduced to 1% NSR with the payment of \$7,500,000 no later than the receipt of production financing or \$10,000,000 upon commercial production being achieved; 1.0% NSR royalty on the Belle claims; and 1.0% NSR royalty on any interest acquired by Sun Summit in an area of interest north of the Project
- \$250,000 advance royalty payments to the optionors on each anniversary of such exercise until the commencement of any commercial production
- Upon the commencement of commercial production from the Property, Sun Summit will make a payment of \$1,000,000 to the optionors

As part of the option agreement, Sun Summit will complete a 3:1 share consolidation

Please refer to the news release dated January 9, 2023, for full details regarding the option terms

Buck Property

Acquisition Terms to Earn 100%

- Upon signing at Exchange approval (October 2019):

\$25,000 cash | 250,000 shares

- First Anniversary October 2020:

\$25,000 cash | 400,000 shares

- Second Anniversary October 2021:

\$25,000 cash | 500,000 shares

- Third Anniversary October 2022:

\$25,000 cash | 750,000 shares

- Fourth Anniversary October 2023:

\$50,000 cash | 1,000,000 shares

- Fifth Anniversary October 2024:

\$150,000 cash | 1,100,000 shares

TOTAL \$300,000 payment 4,000,000 shares

On track to acquire 100% ownership

Currently in 5th year of option agreement

- Sun Summit has paid **\$150,000 cash and 2,900,000 shares** to date (October 2023)
- 2.5% net smelter return (NSR) royalty on the property, which can be reduced to 1.5% NSR with the payment of \$2,500,000 to the Optioners prior to the first anniversary of the commencement of commercial production
- An additional 4,000,000 shares of Sun Summit is payable upon the earlier of completion of a bankable feasibility study or the eighth anniversary of the Effective Date

Note: The CR Project is 100% owned by Sun Summit Minerals and is not included in this option agreement