

# HIGH **GRADE**SAFE **JURISDICTION**SOLID **PARTNERS**













**Corporate Presentation** 

September 2023

### FORWARD LOOKING STATEMENTS

This presentation includes certain "forward-looking information" and "forward-looking statements" (collectively "forward-looking statements") within the meaning of applicable Canadian and United States securities legislation including the United States Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact, included herein, including, without limitation, the future price of copper, zinc, lead, gold and silver; the timing and amount of estimated future production; net present values and internal rates of return at Arctic; recovery rates; payback periods; costs of production; capital expenditures; costs and timing of the development of projects; mine life; the potential future development of Arctic and the future operating or financial performance of the Company, are forward-looking statements. Forwardlooking statements are frequently, but not always, identified by words such as "expects", "anticipates", "believes", "intends", "estimates", "potential", "possible", and similar expressions, or statements that events, conditions, or results "will", "may", "could", or "should" occur or be achieved. These forward-looking statements may include statements regarding perceived merit of properties; exploration plans and budgets; mineral reserves and resource estimates; work programs; timelines; strategic plans; market prices for precious and base metals; or other statements that are not statements of fact. Forward-looking statements involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate, and actual results and future events could differ materially from those anticipated in such statements. Important factors that could cause actual results to differ materially from the Company's expectations include: risks related to inability to define proven and probable reserves; risks related to our ability to finance the development of our mineral properties through external financing, strategic alliances, the sale of property interests or otherwise; uncertainty as to whether there will ever be production at the Company's mineral exploration and development properties; risks related to our ability to commence production and generate material revenues or obtain adequate financing for our planned exploration and development activities; risks related to lack of infrastructure including but not limited to the risk whether or not the Ambler Mining District Industrial Access Project ("AMDIAP") will receive the requisite permits and, if it does, whether the Alaska Industrial Development and Export Authority will build the AMDIAP; risks related to inclement weather which may delay or hinder exploration activities at our mineral properties; risks related to the impact of the novel coronavirus (COVID-19) on the Company and its operations; risks related to our dependence on a third party for the development of our projects; none of the Company's mineral properties are in production or are under development; risks related to future sales or issuances of equity securities decreasing the value of the Company's existing common shares, diluting voting power and reducing future earnings per share; commodity price fluctuations; our history of losses and expectation of future losses; uncertainties relating to the assumptions underlying our resource estimates, such as metal pricing, metallurgy, mineability, marketability and operating and capital costs; uncertainty related to inferred mineral resources; mining and development risks, including risks related to infrastructure, accidents, equipment breakdowns, labor disputes or other unanticipated difficulties with or interruptions in development, construction or production; risks related to market events and general economic conditions, including the impact of COVID-19; risks and uncertainties relating to the interpretation of drill results, the geology, grade and continuity of our mineral deposits; risks related to governmental regulation and permits, including environmental regulation, including the risk that more stringent requirements or standards may be adopted or applied due to circumstances unrelated to the Company and outside of our control; the risk that permits and governmental approvals necessary to develop and operate mines at our mineral properties will not be available on a timely basis or at all; risks related to the need for reclamation activities on our properties and uncertainty of cost estimates related thereto; uncertainty related to title to our mineral properties; risks related to the acquisition and integration of operations or projects; risks related to increases in demand for equipment, skilled labor and services needed for exploration and development of mineral properties, and related cost increases; our need to attract and retain qualified management and technical personnel; risks related to conflicts of interests of some of our directors and officers; risks related to potential future litigation; risks related to the voting power of our major shareholders and the impact that a sale by such shareholders may have on our share price; risks related to global climate change; risks related to adverse publicity from non-governmental organizations; uncertainty as to our ability to maintain the adequacy of internal control over financial reporting as per the requirements of Section 404 of the Sarbanes-Oxley Act; increased regulatory compliance costs, associated with rules and regulations promulgated by the United States Securities and Exchange Commission, Canadian Securities Administrators, the NYSE American, the Toronto Stock Exchange, and the Financial Accounting Standards Boards, and more specifically, our efforts to comply with the Dodd-Frank Wall Street Reform and Consumer Protection Act; uncertainty as to the volatility in the price of the Company's common shares; the Company's expectation of not paying cash dividends; adverse federal income tax consequences for U.S. shareholders should the Company be a passive foreign investment company; and other risks and uncertainties disclosed in the Company's Annual Report on Form 10-K or the year ended November 30, 2022 filed with Canadian securities regulatory authorities and with the United States Securities and Exchange Commission and in other Company reports and documents filed with applicable securities regulatory authorities from time to time. The Company's forwardlooking statements reflect the beliefs, opinions and projections on the date the statements are made. The Company assumes no obligation to update the forward-looking statements or beliefs, opinions, projections, or other factors, should they change, except as required by law.



#### TECHNICAL INFORMATION AND CAUTIONARY STATEMENTS

#### **TECHNICAL REPORT AND QUALIFIED PERSONS**

The document referenced below provide supporting technical information for the Arctic project referenced throughout this presentation.

Project	Qualified Person(s)	Most Recent Disclosure
ARCTIC	Kevin Murray, Ausenco Engineering Canada Inc. Piers Wendlandt, P.E., Principal Mining Engineer, Wood Canada Limited Henry Kim, P.Geo, Principal Resource Geologist, Wood Canada Limited Calvin Boese, P. Eng., M.Sc., Principal Consultant, SRK Consulting (Canada) Inc. Bruce Murphy, P.Eng., Principal Consultant, Rock Mechanics, SRK Consulting (Canada) Inc. Andrea Bowie, P.Eng., Senior Consultant, Water Management, SRK Consulting (Canada) Inc. Dennis Fink, Brown and Caldwell	Arctic Project, NI 43-101 Technical Report on Feasibility Study, Ambler Mining District, Alaska, with an effective date of January 20, 2023 and filed on February 14, 2023 Arctic Project S-K 1300 Technical Report Summary with report date of November 30, 2022, filed February 14, 2023
BORNITE	Henry Kim, P.Geo., Wood Canada Limited Alan Drake, P.L.Eng., Wood Canada Limited	NI 43-101 Technical Report Mineral Resource Update of the Bornite Project, Northwest Alaska, USA with an effective date of January 26, 2023, filed February 14, 2023 Bornite Project S-K 1300 Technical Report Summary with report date of November 30, 2022, filed February 14, 2023

Richard Gosse, P.Geo., Vice President, Exploration for Trilogy, is a Qualified Person as defined by National Instrument 43-101. Mr. Gosse has reviewed the scientific and technical information in this presentation and approves the disclosure contained herein.

#### CAUTIONARY NOTE TO UNITED STATES INVESTORS

This presentation has been prepared in accordance with the requirements of the securities laws in effect in Canada, which differ in some respects from the requirements of U.S. securities laws. The SEC's new mining disclosure rules under Regulation S-K 1300 are closer, but not identical to NI 43-101 and CIM Definition Standards. The Company began reporting in accordance with Regulation S-K 1300 with its Form 10-K for the year ended November 30, 2022. The Mineral Resource and Mineral Reserve Estimates determined in accordance with S-K 1300 are set forth in the Appendix in addition to tables showing the Mineral Resource and Mineral Reserve Estimates determined in accordance with Canadian standards.

#### **NON-GAAP PERFORMANCE MEASURES**

Some of the financial measures referenced in this presentation are non-GAAP performance measures. We have not reconciled forward-looking full year non-GAAP performance measures contained in this presentation to their most directly comparable GAAP measures, as permitted by Item 10(e)(1)(i)(B) of Regulation S-K. Such reconciliations would require unreasonable efforts at this time to estimate and quantify with a reasonable degree of certainty various necessary GAAP components, including for example those related to future production costs, realized sales prices and the timing of such sales, timing and amounts of capital expenditures, metal recoveries, and corporate general and administrative amounts and timing, or others that may arise during the year. These components and other factors could materially impact the amount of the future directly comparable GAAP measures, which may differ significantly from their non-GAAP counterparts. These measures are not recognized measures under US GAAP and do not have a standardized meaning prescribed by US GAAP and are therefore unlikely to be comparable to similar measures presented by other companies. Rather, these measures are provided as additional information to complement those US GAAP measures by providing further understanding of our results of operations from management's perspective and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with US GAAP. The Company believes that these measures, in addition to conventional measures prepared in accordance with US GAAP, provide investors an improved ability to evaluate the underlying performance of the Company.



#### AMBLER MINING DISTRICT<sup>1</sup>

	COPPER billion pounds	<b>ZINC</b> billion pounds	GOLD million ounces	SILVER million ounces
ARCTIC (INDICATED)	2.35	3.22	0.675	52.0
ARCTIC (INFERRED)	0.19	0.29	0.062	5.0
<b>BORNITE</b> (INFERRED)	6.51			

- High-Grade Copper with Zinc and Precious Metals
- 50/50 Joint Venture with South32 Limited

- Located in Alaska a Safe, Rule of Law Jurisdiction
- Ambler Mining District with Significant Exploration Upside

#### JV Focused on Developing the Upper Kobuk Mineral Projects (UKMP)

#### **ARCTIC**

- Feasibility Study results released Feb 14, 2023
- Mineral Reserves:
   46.7 Mt @ 2.11% Cu, 2.9% Zn, 0.56% Pb,
   0.42 g/t Au, 31.8 g/t Ag

#### Pre-Tax \$1.5 Billion NPV and 25.8% IRR

#### **BORNITE**

- 6.5 billion lbs of copper (Inferred)
- Cobalt mineralization at Bornite is comprised of cobaltiferous pyrite within and enveloping the copper mineralized zones

<sup>1.</sup> See the Arctic Report & Bornite Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

#### SHARE CAPITALIZATION

## Solid, Supportive Shareholder Base

WELL FUNDED BALANCE SHEET	TSX, NYSE   <b>TMQ</b>	
Cash ~US\$4.2 Million <sup>1</sup>	Issued and Outstanding	155.3 M¹
No Debt	Options	13.0 M <sup>1</sup>
US\$72.8 Million	Fully Diluted	172.0 M <sup>2</sup>

0	JV Cash ~US\$72.8 Million
	(TMQ's Interest ~US\$36.4
	Million) <sup>1</sup>

- Market Cap ~US\$86 Million
- Largely Institutionally Held
- Meaningful Management Ownership

MAJOR SHAREHOLDERS <sup>3</sup>								
Electrum Group ~21.0%	Baupost Group ~2.7%							
ELECTRUM GROUP**	THE <b>BAUPOST</b> GROUP							
South32 Limited ~12.0%  South32 Limited ~12.0%	RCF ~2.3%  RESOURCE' CAPITAL FUNDS OPPORTUNITIES							
Paulson & Co. ~9.2%  PAULSON & CO	Tony Giardini (CEO) ~1.9%							
TSP Capital ~2.9% TSP Capital Management Group, LLC	Elaine Sanders (CFO) ~1.4%							

- 1. As of May 31, 2023.
- 2. Fully diluted shares include 2.1 M Deferred Share Units and 1.6 M Restricted Share Units on May 31, 2023.
- 3. As of May 31, 2023. Sources: SEC filings and Bloomberg.

Above totals approximately 53%



## THE AMBLER MINING DISTRICT IS MORE THAN A HIGH-GRADE COPPER DISTRICT

It is a Source of Essential Minerals Listed on the U.S. Critical Minerals List



Used in solar and wind energy, galvanizing steel

The U.S. Inflation Reduction Act provides a 10% annual tax credit on production costs for critical minerals that are mined or produced in the U.S.

### CORPORATE HIGHLIGHTS – PARTNERSHIPS

# Strong Partnerships to Advance the Ambler Mining District in Alaska

1. Joint Venture Partnership with South32

South32 contributed US\$145 million for its 50% interest in Ambler Metals. Trilogy contributed the UKMP assets into Ambler Metals.

2. Local Native Partnership with NANA

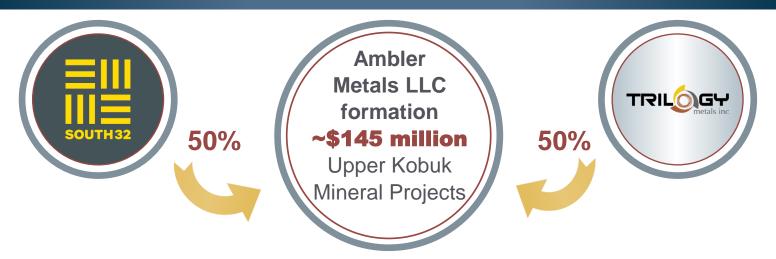
Agreement/Business Relationship with strong community relationships 3. Infrastructure
Partnership with
State of Alaska

AIDEA currently advancing road access



## JOINT VENTURE PARTNERSHIP with South32

# South32 Limited Exercised its Option to Form a Joint Venture with Trilogy

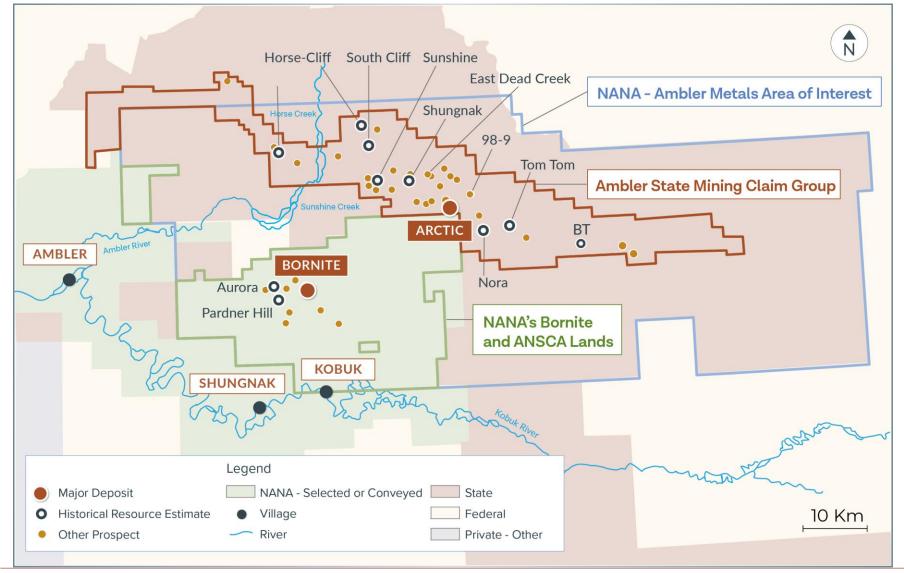


- South32 is a global diversified metals and mining company with a market capitalization of \$21 billion
- In early 2020, South32 contributed ~\$145 million into the Joint Venture and Trilogy contributed the Upper Kobuk Mineral Projects (includes Arctic and Bornite)

- \$72.5 million of initially contributed cash is attributable to each of South32 and Trilogy
- JV retained \$87.5 million with the balance of \$57.5 million loaned back to South32
- South32 has fully repaid the loan in June 2022



# UPPER KOBUK MINERAL PROJECTS JV AREA Total Land Package of 190,929 Ha (471,796 Acres)



### CORPORATE HIGHLIGHTS – PARTNERSHIPS

# Strong Partnerships to Advance the Ambler Mining District in Alaska

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Partnership
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South32 contributed US\$145 million for its 50% interest in Ambler Metals. Trilogy contributed the UKMP assets into Ambler Metals.

2. Local Native Partnership with NANA

Agreement/Business Relationship with strong community participation 3. Infrastructure
Partnership with
State of Alaska

AIDEA currently advancing road access



**NANA** 





# AMBLER MINING DISTRICT Strong Local Support for Mining

NANA has an established mining history in Northwest Alaska, with its partnership in the Red Dog Mine, one of world's largest producers of zinc



- Politically Stable
- Rule of Law
- Recognized Mineral Potential
- Resource Extractive Industries are the Largest Contributors to Alaska's Economy
- Well Established
  Permitting Process
- Supportive Borough Government – tax base for region
- NANA Agreement

- ▶ NANA Alaskan Regional Native Corporation with 14,000 lñupiat shareholders
- Land owner and Joint partner with Teck Resources Ltd. on Red Dog

- Red Dog is the largest zinc mine in the world operating for nearly 30 years
- ► Good jobs and local taxes from Red Dog support NW Arctic Borough and School District



### CORPORATE HIGHLIGHTS – PARTNERSHIPS

# Strong Partnerships to Advance the Ambler Mining District in Alaska

# 1. Joint Venture Partnership with South32

South32 contributed US\$145 million for its 50% interest in Ambler Metals. Trilogy contributed the UKMP assets into Ambler Metals.

### Local Native Partnership with NANA

Agreement/Business Relationship with strong community relationships

# 3. Infrastructure Partnership with State of Alaska

Alaska Industrial Development & Export Authority ("AIDEA") currently advancing road access







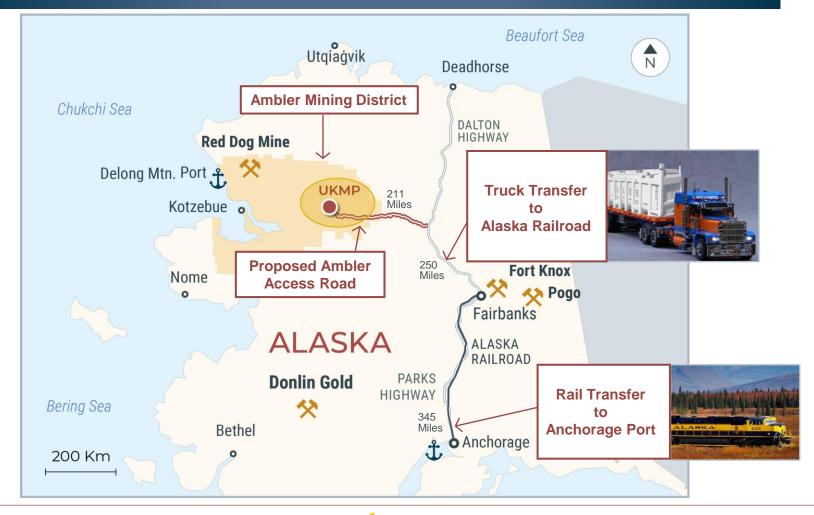
Access road to Red Dog Mine

Port of Alaska in Anchorage

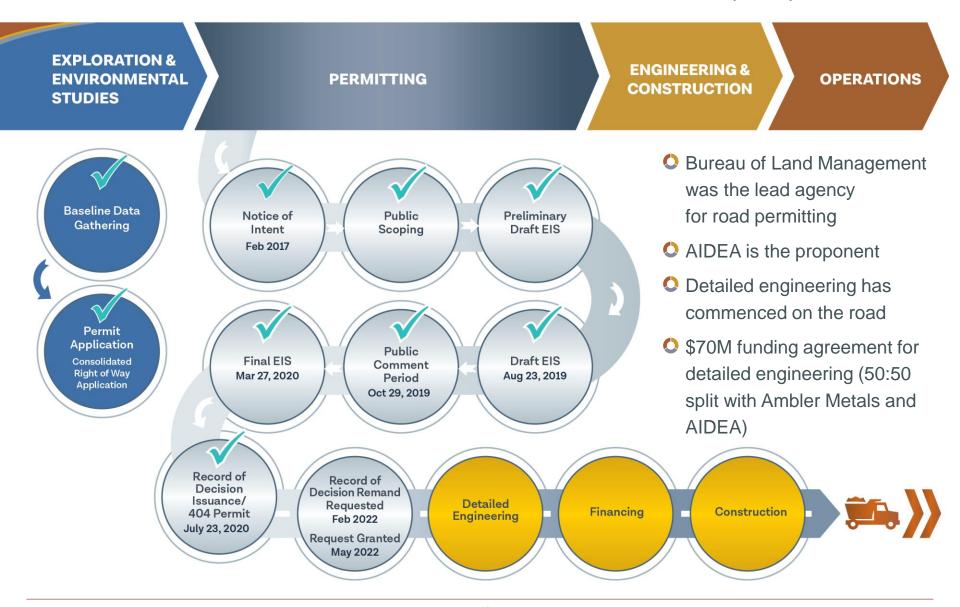


### TRANSPORTATION PLAN

# AIDEA Currently Advancing Road Access to Ambler Mining District



## NEPA ROAD PERMITTING PROCESS (EIS)



### STAKEHOLDER SUPPORT FOR AMBLER ACCESS ROAD PROJECT

The Ambler Access Road is supported by **Upper Kobuk Region**, **the North Slope Borough** and **Northwest Arctic Borough**, that have passed resolutions in favor of the road project.

The Joint Record of Decision (JROD) and the processes it lays out ensure that communities along the proposed road corridor will have a strong voice in how any road project would move forward. The JROD is supported broadly in northwest Alaska, including by NANA, Maniilaq Association, ten of 11 federally recognized Tribes in the NANA region, as well as the Northwest Arctic Borough and Northwest Arctic Borough School District.

- NANA press release, May 19, 2022

Resource development, when carried out in a way that respects our subsistence lifestyle, culture, and the well being of the land has the potential to create progressive economic and employment outcomes for the people of our communities.

 Northwest Arctic Borough Mayor Dickie Moto quoted in Anchorage Press, April 12, 2023

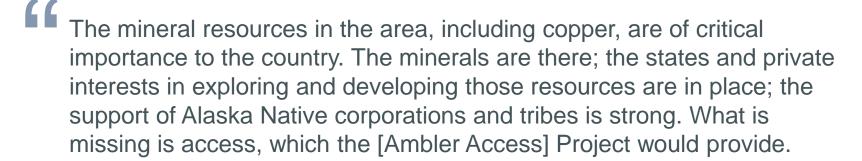


#### BI-PARTISAN SUPPORT FOR AMBLER ACCESS ROAD PROJECT

Letters sent to letter to U.S. Interior Secretary Deb Haaland reiterating strong support for the Ambler Access Project

This Congressionally-mandated access is essential to ensuring the economic stability of both Alaska and the nation. In Alaska alone, the Project has the potential to facilitate over 8,700 direct, indirect, and induced construction and operation jobs and nearly \$700 million in annual wages.

U.S. Senators Lisa Murkowski and Dan Sullivan, R-Alaska, September 15, 2022

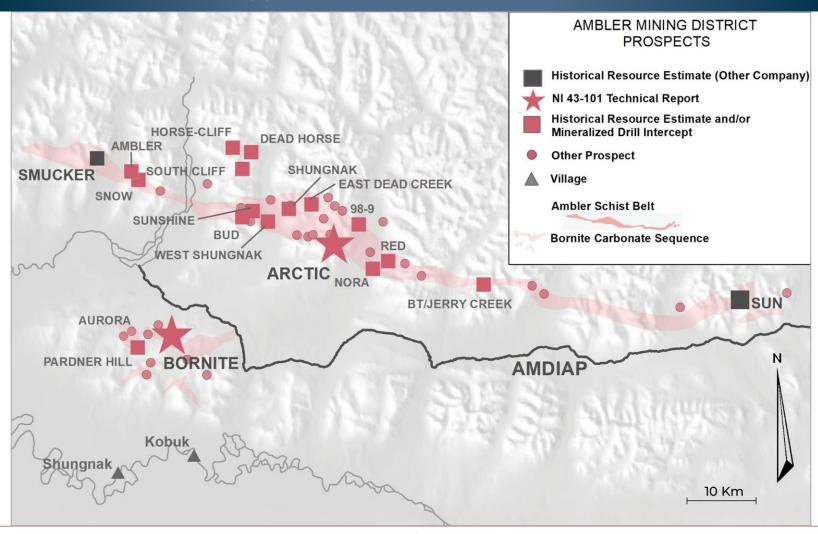


- U.S. Representative Mary Peltola, D-Alaska, September 29, 2022



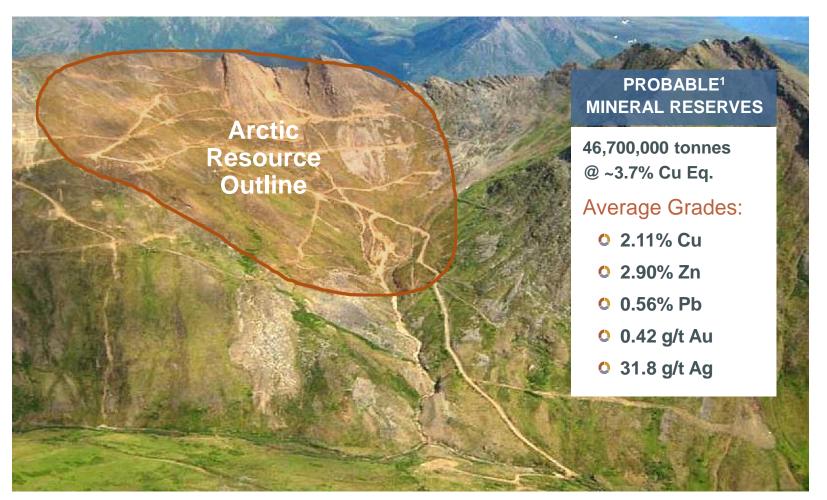
### HIGH-GRADE STRING OF PEARLS

# Ambler Mining District Hosts Deposits Rich in Copper, Zinc, Lead, Gold, Silver & Cobalt



### RESERVES AT THE ARCTIC PROJECT

#### **Probable Mineral Reserves**

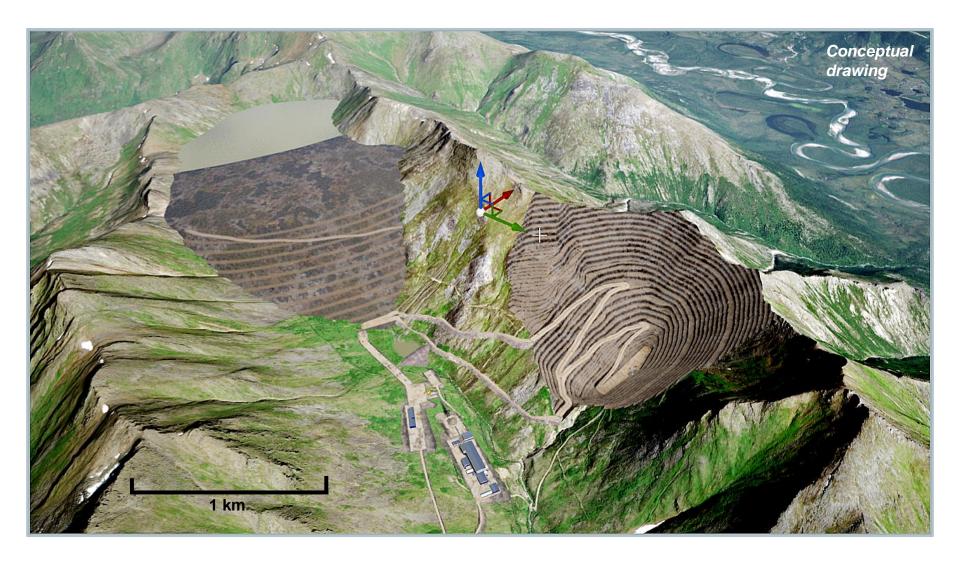


See the Arctic Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect
to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3. Copper Equivalent (CuEq) =
Recovered Cu tonnes + (Au Price US\$/oz) / (Cu Price US\$/t) x (Recovered + gold ounces) + (Ag Price US\$/oz) / (Cu Price US\$/t) x (Recovered +
silver ounces), using the Mineral Resource metal prices (see Arctic Report) and 100% metallurgical recoveries for all elements.



## ARCTIC PROJECT GENERAL CONCEPT PLAN

## Small Footprint Mine Site – Looking Northeast





## ARCTIC FS - INPUTS & ECONOMIC RESULTS<sup>1</sup>

Feasibility Inputs and Economic Results	Base Case Metal Prices	Spot Metal Prices (September 1, 2023)
Mine Life	13 Years	13 Years
Mill Capacity	10,000 tpd	10,000 tpd
Strip Ratio (Waste/Ore)	7.3:1	7.3:1
Average Annual Production	149M lbs Cu 173M lbs Zn 26M lbs Pb 2.8M oz Ag 32,500 oz Au	149M lbs Cu 173M lbs Zn 26M lbs Pb 2.8M oz Ag 32,500 oz Au
Base Case Metal Prices	\$3.65/lb Cu \$1.15/lb Zn \$1.00/lb Pb \$21.00/oz Ag \$1,650/oz Au	\$3.80/lb Cu \$1.13/lb Zn \$1.02/lb Pb \$24.65/oz Ag \$1,944.30/oz Au
Initial Capital Cost (\$ million)	\$1,176.8	\$1,176.8
Total Capital Cost (\$ million)	\$1,719.20	\$1,719.20
Operating Cost (\$/tonne milled)	\$59.83	\$59.83
Pre-Tax NPV (\$ million) at 8%	\$1,500.3	\$1,739.2
After-Tax NPV (\$ million) at 8%	\$1,108.1	\$1,284.7
Cash Costs, Net of By-Product Credits (\$/lb Cu Payable)	\$0.72	\$0.61
All-in Cost (\$/lb of Cu Payable)	\$1.61	\$1.50
Capital Intensity Ratio (\$ Initial Capital/Tonne of Copper Equivalent)	\$10,602	\$10,568
Pre-Tax IRR (%) / After-Tax IRR (%)	25.8/22.8	28.0/24.7
Payback Period - After-Tax (Years)	3.1	2.9

<sup>1.</sup> See the Arctic Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

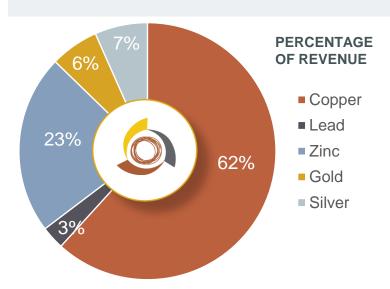


### ARCTIC PRODUCING QUALITY CONCENTRATES<sup>1</sup>

## 3 Separate High-Quality Concentrates

#### **COPPER** CONCENTRATE

- 92.1% recovery
- 30.33% concentrate grade
- Cu payable 96.5%
- Ag 161 g/t (4.67 oz); Ag payable 90%
- No significant penalty metals



#### **ZINC CONCENTRATE**

- 88.5% recovery
- 53.73% concentrate grade
- Zn payable 85%
- No significant penalty metals

#### **PRECIOUS METAL CONCENTRATE**

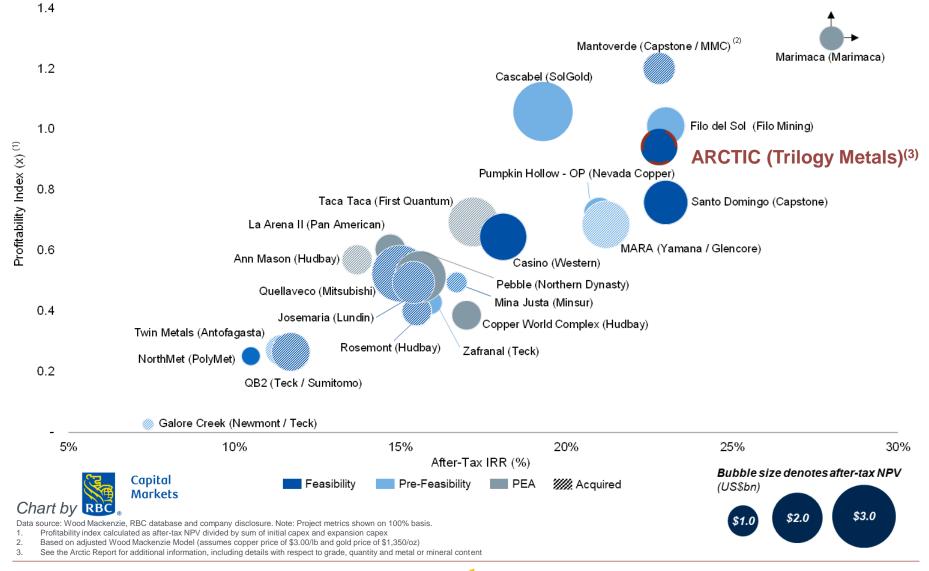
- 4 61.3% Pb recovery
- 53.95% Pb concentrate grade
- Pb payable 95%, subject to 3% deduction for concentrates <60% grade
- Ag 2,424 g/t (74.05 oz); Ag payable 95%
- Au 14 g/t (0.43 oz); Au payable 95%

<sup>1.</sup> See the Arctic Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.



#### ARCTIC BOASTS ROBUST ECONOMIC METRICS

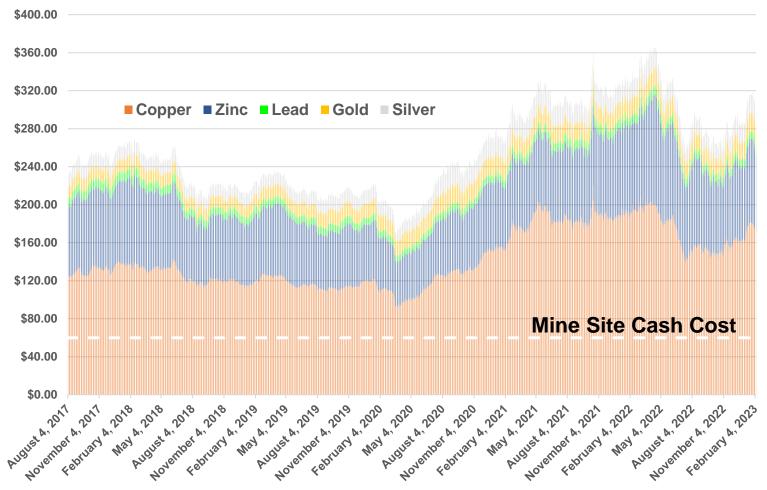
### Profitability Index, After-Tax IRR and After-Tax NPV Benchmarking





#### ARCTIC: EVOLUTION OF BASKET PRICE

Arctic Revenue Per Tonne of Probable Reserves (US\$/t ore)1

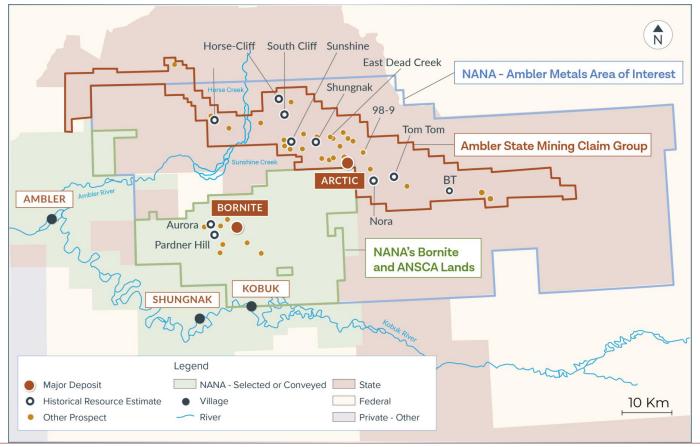


Based on Arctic Mineral Reserves with an effective date of November 15, 2022. Mineral Reserves were estimated assuming open pit mining methods and include a combination of internal and contact dilution. Total dilution is expected to be between 30% and 40%. Pit slopes vary by sector and range from 26° to 56°. A marginal NSR cut-off of \$38.8/t is used. Mineral Reserves are based on prices of \$3.46/lb Cu, \$0.91/lb Pb, \$1.12/lb Zn, \$1,615/oz Au, and \$21.17/oz Ag. Variable process recoveries averaging 92% Cu in Cu concentrate, 61% Pb in Pb concentrate, 88% Zn in Zn concentrate, 52% Au in Cu concentrate, 32% Ag in Cu concentrate, 22% Au in Pb concentrate and 49% Ag in Pb concentrate. Mineral Reserves are based on mining cost of \$2.52/t incremented at \$0.02/t/5m and \$0.012/t/5m below and above 790 m elevation, respectively. Costs applied to processed material following process operating cost of \$18.31/t, G&A of \$5.83/t, sustaining capital cost of \$2.37/t, closure cost of \$4.27/t, road toll cost of \$8.04/t.

## NO FEDERAL LANDS – EASIER TO PERMIT

- Requires Federal, State and Borough Approvals
- 404 Wetlands Permit from the US Army Corps of Engineers is the only significant Federal Permit Required

- All other significant permits issued by the State of Alaska:
  - Mine Operating Permit
- Dam Operating Permit
- Air Quality Permit
- Water Discharge Permit



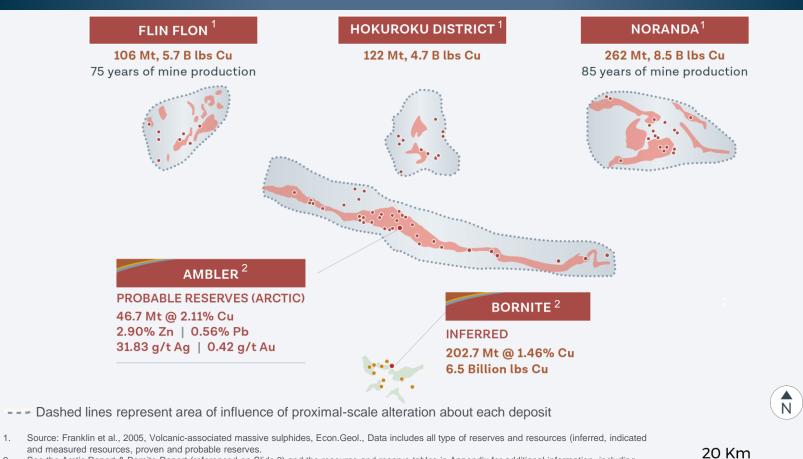
## NEPA MINE PERMITTING PROCESS (EIS)

CLOSURE & MONITORING **EXPLORATION & PERMITTING ENGINEERING & OPERATIONS ENVIRONMENTAL** CONSTRUCTION **STUDIES** 24-30 MONTHS 13 YEARS **2-3 YEARS** 3 YEARS Mine permitting **Baseline Data** Gathering Notice of Public **Preliminary** expected as next step 3 years Draft EIS Intent Scoping Army Corp of Engineers (USACE) is expected to be the 404 Permit lead agency **Application** Final EIS USACE Public Record of **Draft EIS** Comment 1 year Decision Period Issuance/404 Permit MINE Detailed Financing Construction Engineering



## COMPARISON OF THE AMBLER VMS BELT WITH OTHER KNOWN BELTS

# Multi-Billion Pound Copper VMS Districts of the World

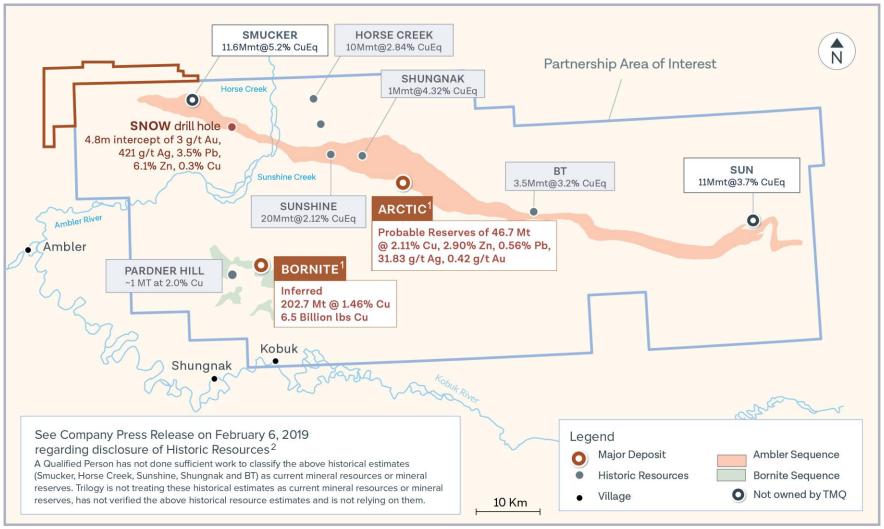




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See the Arctic Report & Bornite Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

### DISTRICT EXPLORATION: PEARLS ON A STRING



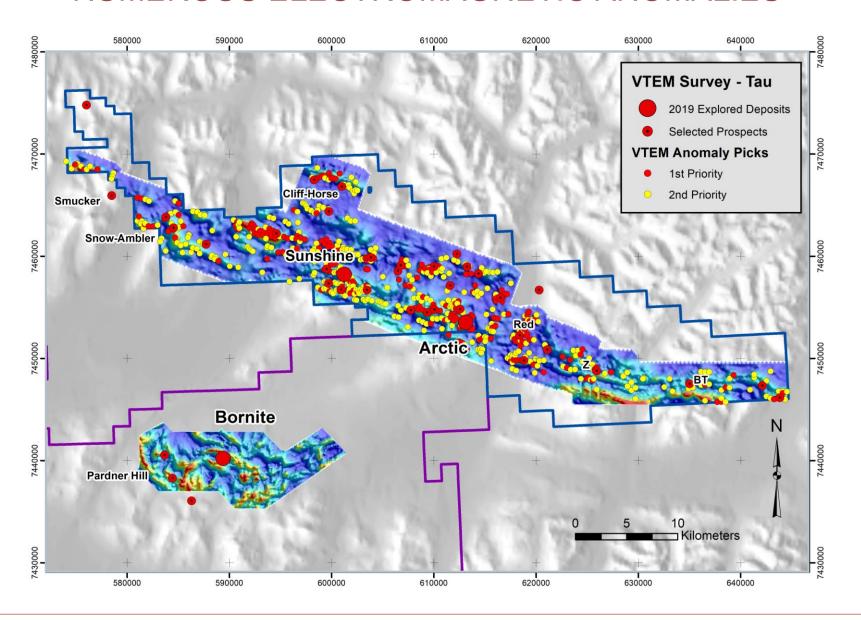
<sup>1.</sup>See the Arctic Report & Bornite Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

<sup>2.</sup> A Qualified Person has not done sufficient work to classify the above historical estimates (Smucker, Horse Creek, Sunshine, Shungnak and BT) as current mineral resources or mineral reserves. Trilogy is not treating these historical estimates as current mineral resources or mineral reserves, has not verified the above historical resource estimates and is not relying on them. The historical estimates were prepared prior to the adoption and implementation of National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101") and do not use categories that conform to the current Canadian Institute of Mining, Metallurgy and Petroleum Definition Standards for Mineral Resources and Mineral Reserves. Additional work, including drilling, would need to be carried out on these historical resources to make them complaint with NI 43-101.



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### NUMEROUS ELECTROMAGNETIC ANOMALIES





### BORNITE<sup>1</sup>

### Testing Northern Extension

### **6.514 billion pounds of Inferred Copper Resource**

Mineral Resources for the Bornite Deposit (effective date, January 26, 2023)

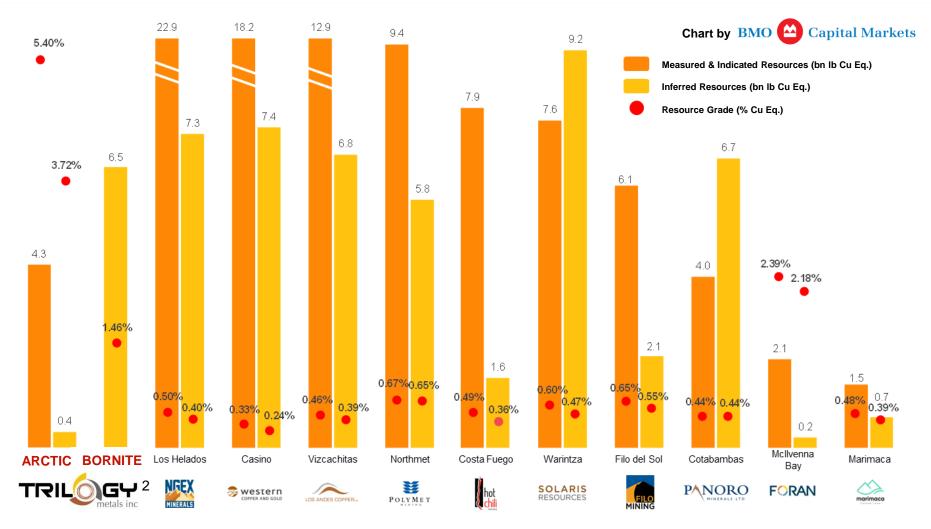
Class	Type/Area	Cut-off Cu (%)	Tonnes (Mt)	Average Grade Cu (%)	Contained Metal Cu (Mlb)
Inferred	In-Pit	0.50	170.4	1.15	4,303
	Outside-Pit South Reef	1.79	22.0	3.48	1,690
	Outside-Pit Ruby Zone	1.79	10.4	2.28	521
<b>Total Inferred</b>			202.7	1.46	6,514

Portions of South Reef Mineral Resource Amenable to Underground Mining

Class	Type/Area	Cut-off Cu (%)	Tonnes (Mt)	Average Grade Cu (%)	Contained Metal Cu (Mlb)
	In-Pit South Reef <sup>2</sup>	1.79	11.0	3.56	864
Inferred	Outside-Pit South Reef <sup>3</sup>	1.79	22.0	3.48	1,690
Total Inferred (South Reef)			33.0	3.51	2,554

<sup>(1)</sup> See the Bornite Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3. (2) Subset of the mineral resource and is not additive to the in-pit mineral resource. (3) Restatement of the mineral resources outside of the pit and is not additive to the mineral resource.

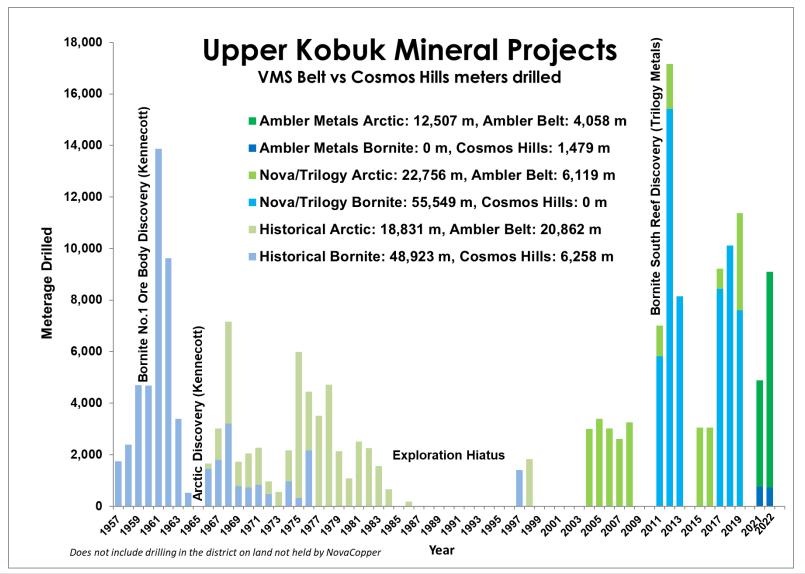
#### TRILOGY'S MINERAL RESOURCES COMPARED TO ITS PEERS1



- 1. Peer group data as per company filings. Following long-term prices used to calculate Cu Eq Au: US\$1,650/oz, Ag: US\$22.15/oz, Cu: US\$3.50/lb, Zn: US\$1.20/lb, Pb: US\$0.95/lb.
- 2. Assumes all assets on a 100% basis. Trilogy has a 50% interest in the UKMP which includes the Arctic and Bornite Projects. See the Arctic and Bornite reports (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

#### UPPER KOBUK MINERAL PROJECTS – RELATIVELY UNDEREXPLORED

#### 197,342 Meters Drilled Since 1957



# UPCOMING CATALYSTS News Flow

- Optimization of Arctic engineering studies by Ambler Metals
   Commencement of permitting of Arctic Project





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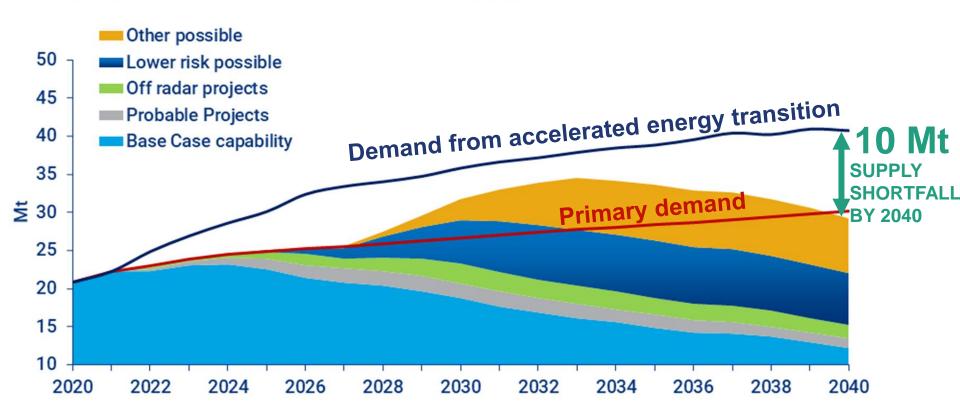
## **APPENDIX**



#### WHY COPPER?

#### Copper is critical to the global transition to clean energy

Primary copper demand scenarios versus mine supply potential



Source: Wood Mackenzie online article, March 23, 2021

### **MANAGEMENT TEAM**

	CORPORATE EXPERIENCE	BIO
TONY GIARDINI President, CEO and Director of the Board	<ul><li>Kinross Gold</li><li>Ivanhoe Mines</li><li>Placer Dome</li><li>KPMG</li></ul>	Former President of Ivanhoe Mines Ltd. from May 2019 to March 2020. Former Executive Vice President and Chief Financial Officer of Kinross Gold Corporation from December 2012 to April 2019. Former Chief Financial Officer of Ivanhoe Mines Ltd. from May 2006 to April 2012. Spent more than 10 years with Placer Dome Inc. as Vice President and Treasurer. A Chartered Professional Accountant and a Certified Public Accountant and spent 12 years with accounting firm KPMG prior to joining Placer Dome Inc.
ELAINE SANDERS CFO & Corporate Secretary	<ul><li>NovaGold Resources</li><li>Alexco Resource</li></ul>	More than 25 years of experience in audit, finance, and accounting with public and private companies. Has been involved with numerous financings and acquisitions, and has listed companies on both the TSX and NYSE American. Responsible for all aspects of financial reporting, compliance, and corporate governance of Trilogy. Holds a Bachelor of Commerce degree from the University of Alberta, and is a Chartered Professional Accountant and a Certified Public Accountant.
RICHARD GOSSE VP, Exploration	<ul><li>Ivanhoe Mines</li><li>Dundee Precious Metals</li></ul>	35 years of experience as a geologist, including 15 years at the Vice President level. Former Senior Vice President Exploration at Dundee Precious Metals Inc. overseeing exploration strategy and initiatives to achieve corporate targets to replace mine reserves in Bulgaria and Armenia. Former VP, Exploration at Ivanhoe Mines Ltd. (now Turquoise Hill Resources Ltd.) where he led the exploration efforts at the world-class Oyu Tolgoi copper-gold project in Mongolia. Holds a B.Sc. in Geology at

and Technology, London.

Queens University and a M.Sc. in Mineral Exploration at Imperial College of Science

### **BOARD OF DIRECTORS**

#### **JANICE STAIRS**

Chair

#### CORPORATE EXPERIENCE

- Namibia Critical Metals
- Endeavour Mining
- Etruscan Resources
- McInnes Cooper

BIO

Over 30 years of experience working with companies involved in the resource sector including positions held with Namibia Critical Metals Inc., Endeavour Mining Corporation and Etruscan Resources Inc. Former partner with McInnes Cooper (formerly Patterson Palmer), where she continues to act as counsel to the firm. Practiced law in private practice for 19 years specializing in corporate finance and resource-related issues for private/public companies. Graduated from Dalhousie Law School and holds a Masters of Business Administration from Queen's University.

#### **JIM GOWANS**

Director

- Arizona Mining
- Barrick Gold
- DeBeers
- Placer Dome
- Cominco

Former President, CEO and a director of Arizona Mining Inc. until it was purchased by South32 Limited in August 2018. Former senior advisor to the chair of the board of Barrick Gold Corporation, and served variously as co-president, executive vice president and COO. Former managing director of the Debswana Diamond Company. Held executive positions at DeBeers SA, DeBeers Canada Inc. and PT Inco in Indonesia, and with Placer Dome Ltd. At Cominco Limited, oversaw design, construction and operations at the Red Dog Mine. Holds a Bachelor of Applied Science degree in mineral engineering from the University of British Columbia.

#### **WILLIAM HAYDEN**

Director

- Ivanhoe Mines
- GoviEx Uranium
- Sunward Resources

A geologist with over 39 years of experience in the mineral exploration industry. Co-founder and former President of Ivanhoe Nickel and Platinum (now Ivanhoe Mines Ltd). Worked in a management capacity with several exploration and mining companies both in Australia and overseas. Former President of Ivanhoe Philippines and GoviEx Uranium Inc., and a former director of Sunward Resources Ltd.

#### **WILLIAM HENSLEY**

Director

- University of Alaska
- NANA Regional Corp.
- Maniilag
- Alaska Permanent Fund Corp.
- Alaska Railroad

Former Distinguished Visiting Professor in the Dept. of Business & Public Policy at the University of Alaska. Former Commissioner of Commerce and Economic Development, where he was responsible for Alaska's involvement in tourism and seafood marketing, international trade, insurance, banking and securities, and occupational licensing. Served on the Oil and Gas Policy Council, the Board of Directors of the Alaska Permanent Fund Corporation, the Alaska Railroad and the Alaska Industrial Development Authority. Founded NANA Regional Corporation, and Maniilaq, the regional non-profit representing the tribes in the Kotzebue region.



## BOARD OF DIRECTORS (continued)

#### CORPORATE EXPERIENCE

#### BIO

#### **GREGORY A. LANG**

Director

- NovaGold Resources
- Barrick Gold

President and Chief Executive Officer of NOVAGOLD RESOURCES INC. Over 35 years of diverse experience in mine operations, project development and evaluations, including experience as President of Barrick Gold of North America. Held operating and project development positions over his 10-year tenure with Barrick Gold Corporation and, prior to that, with Homestake Mining Company and International Corona Corporation, both of which are now part of Barrick Gold Corporation. Holds a Bachelor of Science in Mining Engineering from University of Missouri-Rolla and is a Graduate of the Stanford University Executive Program.

#### **DIANA WALTERS**

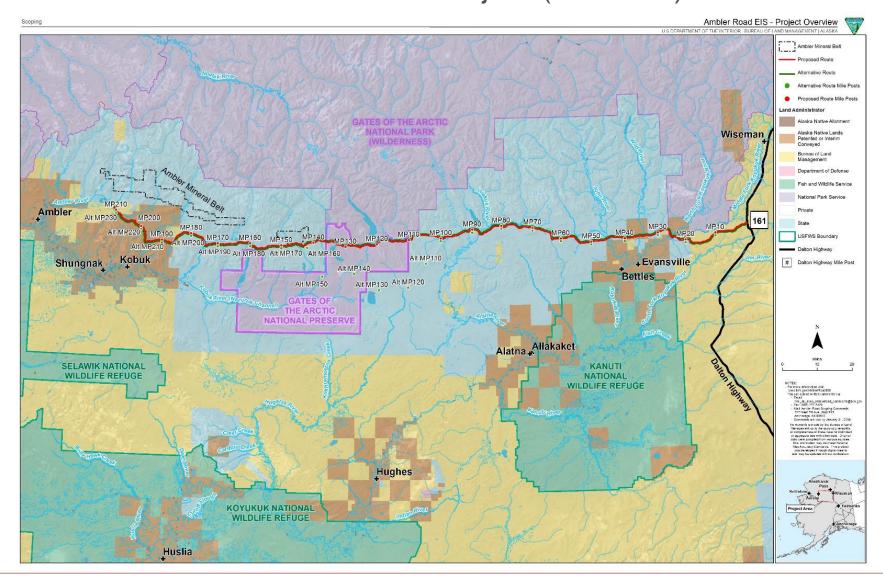
Director

- Amichel LLC
- Liberty Metals & Mining
- Liberty Mutual Asset Management
- Eland Capital
- Credit Suisse
- HSBC

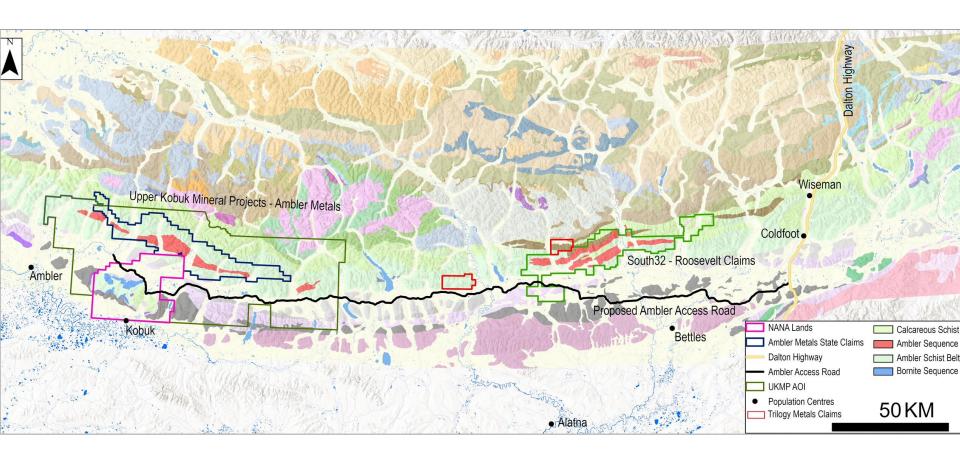
Over 35 years of experience in the natural resources sector, as a private equity investor, investment banker, CFO, board member and in other roles within the sector. Owner and sole manager of Amichel LLC, an investment company that also provides advisory services in the field of natural resources. Former President of Liberty Metals & Mining Holdings, LLC, and former member of senior management of Liberty Mutual Asset Management. Former Managing Partner of Eland Capital, LLC, a natural resources advisory firm founded by her, from 2007 to 2010. Extensive investment experience with both debt and equity through various leadership roles at Credit Suisse, HSBC and other firms. Former Chief Financial Officer of Tatham Offshore Inc., an independent oil and gas company with assets in the Gulf of Mexico. Graduated with Honors from the University of Texas at Austin with a B.A. in Plan II Liberal Arts and an M.A. in Energy and Mineral Resources.



# AMBLER MINING DISTRICT Industrial Access Project (AMDIAP)



### AMBLER MINING DISTRICT



### AMBLER ACCESS ROAD PROJECT TIMELINE

**MAY 2022 SEPT 2022 NOV 2022 MAY 2023 JAN 2021 FEB 2021 FEB 2022 USBLM** stated **USBLM** stated **USBLM** published **United States** DOI motion for AIDEA **Ambler Metals** draft SEIS draft SEIS a Notice of Intent Department of remand received rightentered into a expected in expected in that it will prepare the Interior granted of-way for the Development Q2 2023 and Q3 2023, final a Supplemental without vacatur (DOI) filed a Ambler Access Funding final SEIS SEIS motion to of JROD, DOI Environmental Road Project Agreement with expected in expected in Impact Statement remand the to file a status from US AIDFA to Q4 2023. Q1 2024, and report with the (SEIS) for the Final Bureau of Land cooperate on Record of road, USBLM United States Management the pre-Environmental Decision District Court expects to publish and National development **Impact** expected in a Draft SEIS Statement and within 60 days Park Service work for the Q2 2024. from the date during Q2 2023, suspend the (USBLM). Ambler Access after which it will of the order Project. right-of-way accept public permits issued and every 60 days comments on the for the Ambler

thereafter.

Access Project.

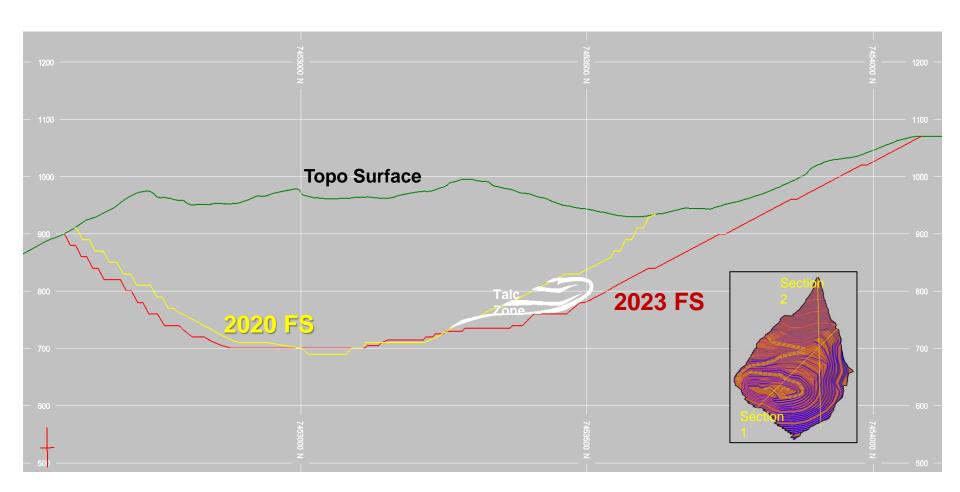
Draft SEIS.

### PORT OF ALASKA - ANCHORAGE

## Concentrates Loaded Directly into Ship Hold



# MINE DESIGN UPDATE by WOOD ENGINEERING



See the Arctic Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

## MINERAL RESOURCE SUMMARY TABLE AS OF NOVEMBER 30, 2022 UNDER REGULATION S-K 1300

			Average Grade				Contained Metal Content					
Project	Resource	Tonnage	Cu	Pb	Zn	Au	Ag	Cu	Pb	Zn	Au	Ag
Alaska	Category	(Mt)	(%)	(%)	(%)	(g/t)	(g/t)	(MIb)	(Mlb)	(MIb)	(koz)	(Moz)
Arctic – 50% Attributable Interest	Inferred	2.25	1.92	0.70	2.93	0.43	35.6	94.5	34.5	144	31	2.5
Bornite – 50% Attributable Interest	Inferred	101.3	1.46					3,257				

#### Notes:

- 1. Mineral Resources are current as of November 30, 2022 and were verified by a Wood QP.
- 2. Mineral Resources were prepared in accordance with the standards and definitions of S-K 1300 and represent first-time disclosure of Mineral Resources under S-K 1300 standards and definitions.
- 3. The Mineral Resource estimate is reported exclusive of those Mineral Resources that were converted to Mineral Reserves.
- 4. Trilogy Metals' 50% attributable interest is stated in the table.
- 5. Figures may not sum due to rounding.
- 6. The mineral resources are reported in place (point of reference).

#### Arctic Notes:

- 1. Mineral Resources stated are contained within a conceptual pit shell developed using metal prices of \$3.00/lb Cu, \$0.90/lb Pb, \$1.00/lb Zn, \$1,300/oz Au and \$18/oz Ag and metallurgical recoveries of 92% Cu, 77% Pb, 88% Zn, 63% Au and 56% Ag and operating costs of \$3/t mining and \$35/t process and general and administrative costs. The assumed average pit slope angle is 43°.
- 2. As a result of flattening the north end of the reserve pit to stabilize the pit wall due to the presence of talc, a portion of the reserve pit extended beyond the resource constraining pit shell and a second pass of mineral resource tabulation was performed exterior to the constraining resource pit and interior to the constraining reserve pit which is included in the Mineral Resource tabulation.
- 3. The cut-off grade is 0.5% copper equivalent:  $CuEq = (Cu\% \times 0.92) + (Zn\% \times 0.290) + (Pb\% \times 0.231) + (Au g/t \times 0.398) + (Ag g/t \times 0.005)$ .

#### **Bornite Notes:**

1. Mineral resources are constrained by: an open pit shell at a cut-off grade of 0.5% Cu, with an average pit slope of 43 degrees; and underground mining shapes with a cut-off grade of 1.79% Cu. The cut-off grades include the considerations of a \$4.05/lb Cu price, process recovery of 87.2%, open pit mining costs of \$3.21/t mined, underground mining cost of \$73.62/t mined, process cost of \$19.14/t processed, G&A cost of \$4.14/t processed, treatment, refining, sales cost of \$0.73/lb Cu in concentrate, road use cost of \$8.04/t processed, 2% NSR royalty.



## MINERAL RESERVE ESTIMATE AS OF NOVEMBER 30, 2022 FOR THE ARCTIC PROJECT, ALASKA USA UNDER REGULATION S-K 1300

	Tonnage	Average Grade							Average Grade				
Classification	Mt	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)							
Probable Mineral Reserves – 50% Attributable Interest	23.35	2.11	0.56	2.90	0.42	31.8							

#### Notes:

- 1. Mineral Reserves estimates are current as of November 30, 2022 and were prepared by a Wood QP.
- 2. Mineral Reserves were estimated assuming open pit mining methods and include a combination of internal and contact dilution. Total dilution is expected to be between 30% and 40%. Pit slopes vary by sector and range from 26° to 56°. A marginal NSR cut-off of \$38.8 /t is used.
- 3. Mineral Reserves are based on prices of \$3.46/lb Cu, \$0.91/lb Pb, \$1.12/lb Zn, \$1,615/oz Au, and \$21.17/oz Ag.
- 4. Variable process recoveries averaging 92% Cu in Cu concentrate, 62% Pb in Pb concentrate, 88% Zn in Zn concentrate, 47% Au in Cu concentrate, 33% Ag in Cu concentrate, 26% Au in Pb concentrate and 49% Ag in Pb concentrate.
- 5. Mineral Reserves are based on mining cost of \$2.52/t incremented at \$0.02/t/5m and \$0.012/t/5m below and above 790 m elevation, respectively.
- 6. Costs applied to processed material following: process operating cost of \$18.31/t, G&A of \$5.83/t, sustaining capital cost of \$2.37/t, closure cost of \$4.27/t, road toll cost of \$8.04/t.
- 7. Strip ratio (waste:ore) is 7.3:1.
- 8. Selling terms following: payables of 96.5% of Cu, 95% of Pb and 85% of Zn, treatment costs of \$80/t Cu concentrate, \$160/t Pb concentrate and \$215/t Zn concentrate; refining costs of \$0.08/lb Cu in Cu concentrate, and \$10/oz Au, \$1.25/oz Ag in Pb concentrate; and transport cost \$270.98/t concentrate.
- 9. Fixed royalty percentage of 1% NSR.
- 10. Trilogy Metals' 50% attributable interest is stated in the table.
- 11. The point of reference for the Mineral Reserves is defined at the point where the ore is delivered to the processing plant.
- 12. The metal prices and costs were fixed over the 13-year mine life.





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