



# SECURING DOMESTIC CHIPMAKING METALS

COMPANY PRESENTATION  
FEBRUARY 2024



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# Overview

## Zig Zag Property Highlights

- ✓ The Zig Zag property consists of 8 mineral claims, covering 2,710 hectares.
- ✓ Integral Metals Corp. owns 100% interest in the Zig Zag property.
- ✓ Positioned in a top Canadian mineral-producing region and a global top 10 mining jurisdiction, The Zig Zag Property is strategically located.
- ✓ The highly fractionated pegmatite nature may be linked to enriched Gallium, Tantalum, and Beryllium content.
- ✓ A central, rare metal pegmatite dyke is a key feature of the Crescent Lake pegmatite group on the property.

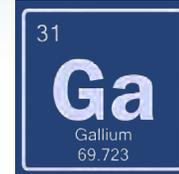
## KAP Property Highlights

- ✓ The property comprises 6 mineral claims, covering 7,500 hectares.
- ✓ Integral Metals Corp. owns 100% interest in the KAP property.
- ✓ Located northwest of Dal Lake, the property is situated on the east flank of the Redstone Arch, within the Fold Belt of the MacKenzie Mountains.
- ✓ Mineralization is stratabound, with numerous occurrences of disseminated and massive sphalerite and galena spread over a large area encompassed by the property, where high grade zinc, gallium, and germanium are associated with collapse and crackle breccias.
- ✓ Operators in the area are advancing projects at various stages of development, including prospecting and drilling activities.

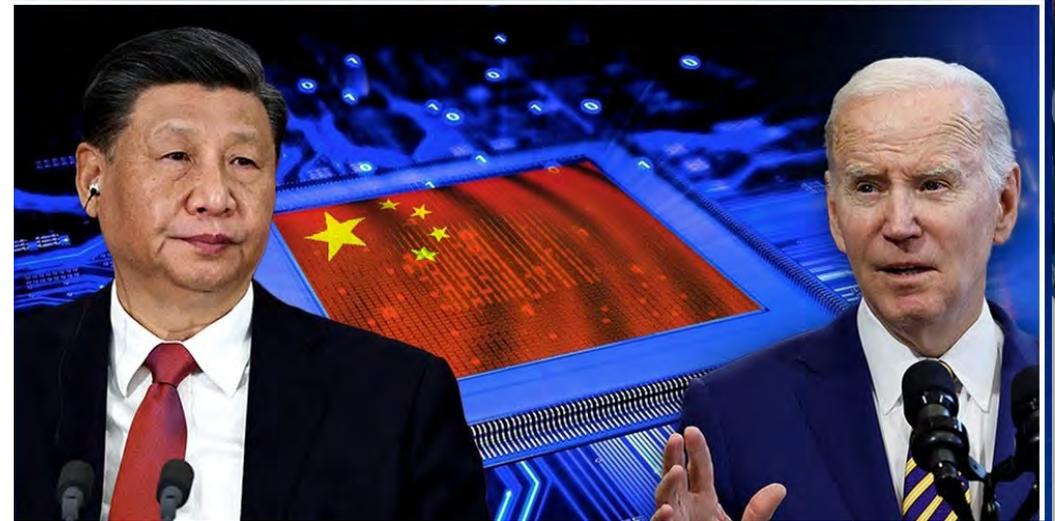
Reuters, July 2023: China's rare earths dominance in focus after it limits germanium and gallium exports

# Global Demand

- ✓ Canada and the US signed a partnership to strengthen resilience of Critical Mineral and Semiconductor supply chains.
- ✓ The Pentagon plans to issue a first-time contract to US or Canadian companies by year-end to recover gallium.
- ✓ With the passage of the CHIPS and Science Act, the United States and Canada will facilitate investment to promote secure and resilient semiconductor supply chains.
- ✓ China produces a staggering 98 percent of the world's supply of raw gallium.
- ✓ Western countries have ramped up support to boost domestic production of critical minerals to reduce reliance on China.



## CHIP WAR CHINA HITS BACK



### Sources

White House, March 2023: Joint Statement by President Biden and Prime Minister Trudeau

Reuters, July 2023: China's rare earths dominance in focus after it limits germanium and gallium exports



# The Power of Gallium Drives Global Economics

## Gallium Applications

Electronics	Networking & Comms	Consumer	Data Processing	Healthcare	Automotive	Military
<ul style="list-style-type: none"> <li>✓ Red LEDs</li> <li>✓ Solar Panels</li> </ul>	<ul style="list-style-type: none"> <li>✓ Semiconductors</li> </ul>	<ul style="list-style-type: none"> <li>✓ LEDs</li> </ul>	<ul style="list-style-type: none"> <li>✓ Computer Chips</li> <li>✓ Transistors</li> </ul>	<ul style="list-style-type: none"> <li>✓ Cancer and Marlara Chemotherapy</li> <li>✓ Dental Materials</li> </ul>	<ul style="list-style-type: none"> <li>✓ Electric Vehicles</li> </ul>	<ul style="list-style-type: none"> <li>✓ Defense System</li> <li>✓ Radar</li> <li>✓ Microelectronics</li> </ul>

Gallium Global Production 2022



Gallium Global Reserves 2022



### Sources

U.S. Geological Survey, January 2023, Mineral Commodity Summaries



# Gallium Plays a Unique Role in Modern Military Systems

The United States and other advanced economies purchase gallium from China and refine it further for use in commercial and military applications.

Gallium compounds are key inputs to some advanced U.S. defense systems and, by extension, the DOD supply chain.

Gallium-based semiconductors are vital to the U.S. defense industry, particularly in next-generation missile defense and radar systems, as well as electronic warfare and communications equipment.

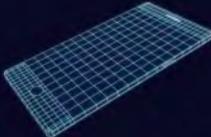
GaN (Gallium Nitride) is foundational to nearly all the cutting-edge defense technology that advanced countries produce.



### Radio Frequency (RF)

Chips made with gallium are used as power amplifiers to boost the signal power of high-frequency transmitters and receivers.

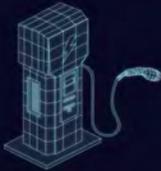
Uses: Phased-array radars; electronic warfare systems; satellite communications systems; 5G wireless base stations; mobile phones



### Optoelectronics

Due to their direct bandgap, gallium-based chips can efficiently convert electricity to visible light.

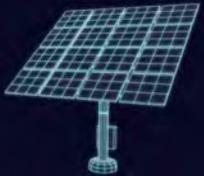
Uses: LED lighting; LIDAR; infrared/ultraviolet lasers



### Power Electronics

Power electronics, which regulate the flow of electricity into devices, use the power density and efficiency of gallium-based chips to deliver electricity.

Uses: Spacecraft power management; fast chargers (electric vehicles and consumer electronics); data centers; power grid management



### Clean Energy

When applied directly in thin layers, gallium can improve the efficiency of important clean energy technologies.

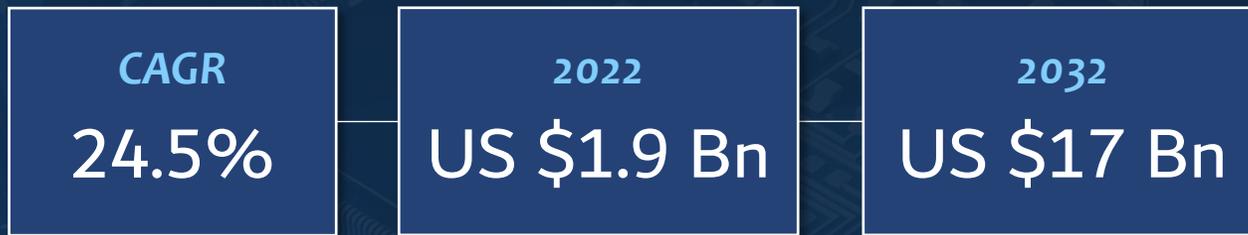
Uses: Solar cells; Neodymium-iron-boron (NdFeB) magnets for electric vehicles

# Gallium Market



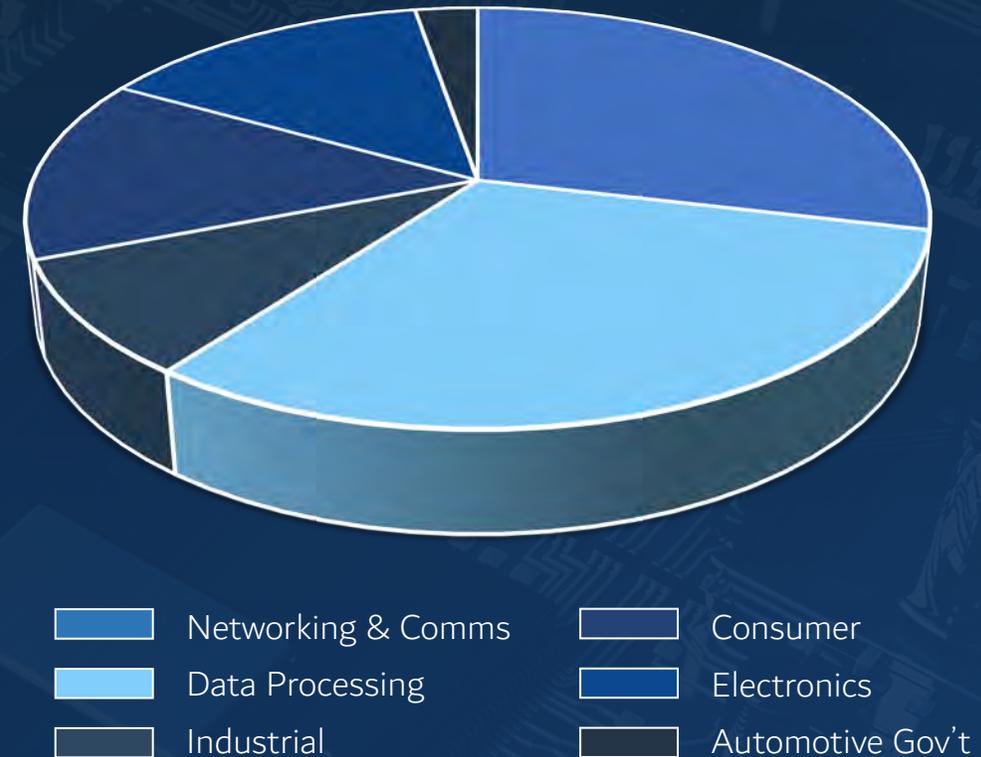
## Gallium Market Analysis

By Market Players, 2022-2023



- ✓ Gallium compounds are used in semiconductor materials, optoelectronic devices (e.g., laser diodes, light-emitting diodes photodetectors, and solar cells), cancer and malaria chemotherapy, antimicrobial, and dental materials.
- ✓ The growing use of Gallium in the electronics sector is propelling sales opportunities in the market.
- ✓ North America is estimated to hold the leading position in the global gallium market. This is due to the rise in demand of electronic consumer goods.

## Global Semiconductor Market Share By Application



### Sources

Persistence Market Research, September 2022: Gallium Market

Fortune Business Insights, April 2022: Market Research Report

Science Direct, 2022: Gallium and Gallium Semiconductor Compounds

# Gallium Market Dominated by Chinese

*China has started restricting exports of gallium, which is key to the semiconductor industry, as the chip war with the US and Canada heats up*

- ✓ Under new controls, exporting gallium and germanium from the world's second-largest economy now requires special licenses.
- ✓ These materials, crucial for chip production and with military applications, fall under the scope of the new regulations.
- ✓ China dominates the global gallium and germanium supply chain, producing 80% and 60%, respectively, as reported by the Critical Raw Materials Alliance (CRMA).
- ✓ China has imposed restrictions on U.S. firms associated with the American military, including aerospace company Lockheed Martin.
- ✓ While the U.S. possesses reserves of germanium, it lacks a stockpile of gallium.
- ✓ The U.S. has announced the enforcement of licenses for companies exporting chips to China using U.S. tools or software, regardless of their global production location.

**“ Quite simply, if you won't give us chips, we won't give you the materials to make those chips ”**

*- Colin Hamilton, BMO Investment*

## Sources

BBC News, August 2023: Gallium and germanium: What China's new move in microchip war means for world



# USA and Canada Partnership

## *Export Restrictions and Pentagon Contract*

Due to Chinese export restrictions, the Pentagon plans to issue a first-time contract by year-end to recover gallium—a vital mineral for semiconductors and military radar systems—from U.S. or Canadian companies.

## *Energy Resource Governance Initiative (ERGI)*

Canada and the U.S. signed an MOU confirming Canada's participation in ERGI, a multi-pronged strategy to reduce reliance on China's critical energy minerals monopoly.

## *Resilient Supply Chains*

Collaborative efforts between the U.S. and Canada aim to establish a strong, environmentally responsible, and resilient North American critical minerals supply chain.

## *Investments and Funding*

USD \$50 million in Defense Production Act funding announced for U.S. and Canadian companies, along with CAD \$250 million from Canada's Strategic Innovation Fund for semiconductor projects.

## *CHIPS and Science Act Impact*

The U.S. and Canada will facilitate investment to bolster secure semiconductor supply chains, creating jobs and advancing a cross-border packaging corridor.

## *Support for Canadian Companies*

Canadian companies in critical minerals for electric vehicles and storage batteries are eligible for USD \$250 million Defense Production Act Title III funding.

### **Sources**

Mining, July 2023: Pentagon seeks supply of chip mineral gallium after China curbs exports

White House, March 2023: Joint Statement by President Biden and Prime Minister Trudeau

# Ontario's Role in Critical Minerals

## *Abundant Critical Minerals*

- ✓ Ontario, rich in critical minerals, has the potential to integrate into the global critical minerals supply chain.

## *Thriving Mining Industry*

- ✓ The mining industry in Ontario contributes over \$10 billion annually to mineral production.

## *Synergy of Resources*

- ✓ Ontario's extensive mineral wealth in the north aligns seamlessly with a world-class manufacturing sector in the south, creating opportunities for vertical integration.

## *Government Investments*

- ✓ The Ontario government is investing \$24 million in the Ontario Junior Exploration Program, including \$12 million for a critical minerals funding stream. An additional \$5 million in a new critical minerals innovation fund supports research for extraction and processing in Ontario's north.

## *Tax Incentives for Exploration*

- ✓ The Federal Mineral Exploration Tax Credit Program provides a 15% tax credit, complemented by Ontario's permanent five per cent tax credit for companies exploring in the province through the Ontario Focused Flow-Through Share program.

### **Sources**

Ontario, September 2022: Ontario's Critical Minerals Strategy 2022–2027

Auto Remarketing Canada, October 2023: Canada, Ontario governments move forward with plans for EV battery plant

# Chipmaking Metals

## Critical Elements for Chipmaking Production Linked to LCT Pegmatite Emplacement

**Gallium:** Gallium's most prominent use in technology is in the form of Gallium Arsenide (GaAs), a compound semiconductor. GaAs are highly valued in the electronics industry for its superior electron mobility compared to silicon, making it ideal for high-frequency, high-efficiency applications like mobile phones, satellite communications, microwave point-to-point links, and some radar systems. Additionally, gallium is also used in the production of Gallium Nitride (GaN), another semiconductor with applications in LEDs, laser diodes, and high-power transistors. The unique properties of gallium-based semiconductors, such as their ability to operate at higher temperatures and their efficiency in converting electricity into light, make them critical in the advancement of various electronic and optical devices.

**Tantalum:** This metal is valued in chipmaking for its high melting point, excellent conductivity, and resistance to corrosion. Tantalum is often used in capacitors and high-power resistors found in semiconductor devices. Its ability to form stable oxide layers makes it ideal for use in thin-film components.

**Beryllium:** Beryllium is used in certain applications due to its unique properties. It has a high thermal conductivity, which makes it useful in thermal management applications within semiconductor devices. Beryllium is also used in some specialized applications where its light weight and rigidity are beneficial, such as in certain types of aerospace electronics. However, it's important to note that Beryllium is highly toxic, and its use is highly regulated in manufacturing environments due to the health risks it poses when inhaled as dust or fumes.

## Critical Uses

### Companies directly affected by chipmaking metals and Supply Chain.

- ✓ Nvidia, Taiwan semi-conductor, and Intel are some of the largest semiconductor manufacturers and heavily rely on gallium to keep up with the massive demand, especially due to AI
- ✓ Apple, Microchips and semiconductors
- ✓ Tesla, microchips in cars
- ✓ Open AI, heavily uses semiconductors to power its technologies



# Zig Zag Property

# Project Overview

- ✓ The property comprises 8 mining cell claims, covering approximately 2,710 hectares.
- ✓ Integral Metals Corp. owns 100% interest in the Zig Zag property.
- ✓ Accessible from the town of Armstrong via a series of connected all-season roads and logging trails. The town provides essential services including a local airport, hotel, gas station, and outfitter.
- ✓ Located north of Lake Nipigon, the property is situated within the Eastern-Central portion of the Caribou Greenstone Belt, where it contacts the English River Subprovince near the northern edge of the property. Bedrock units predominantly consist of intermediate-to-mafic metavolcanics intersected by various faults.
- ✓ A centrally located, highly fractionated, LCT pegmatite dyke on the property is part of the Crescent Lake pegmatite group. The emplacement of these rare metals pegmatites is believed to be associated with enriched gallium, tantalum, and beryllium content.

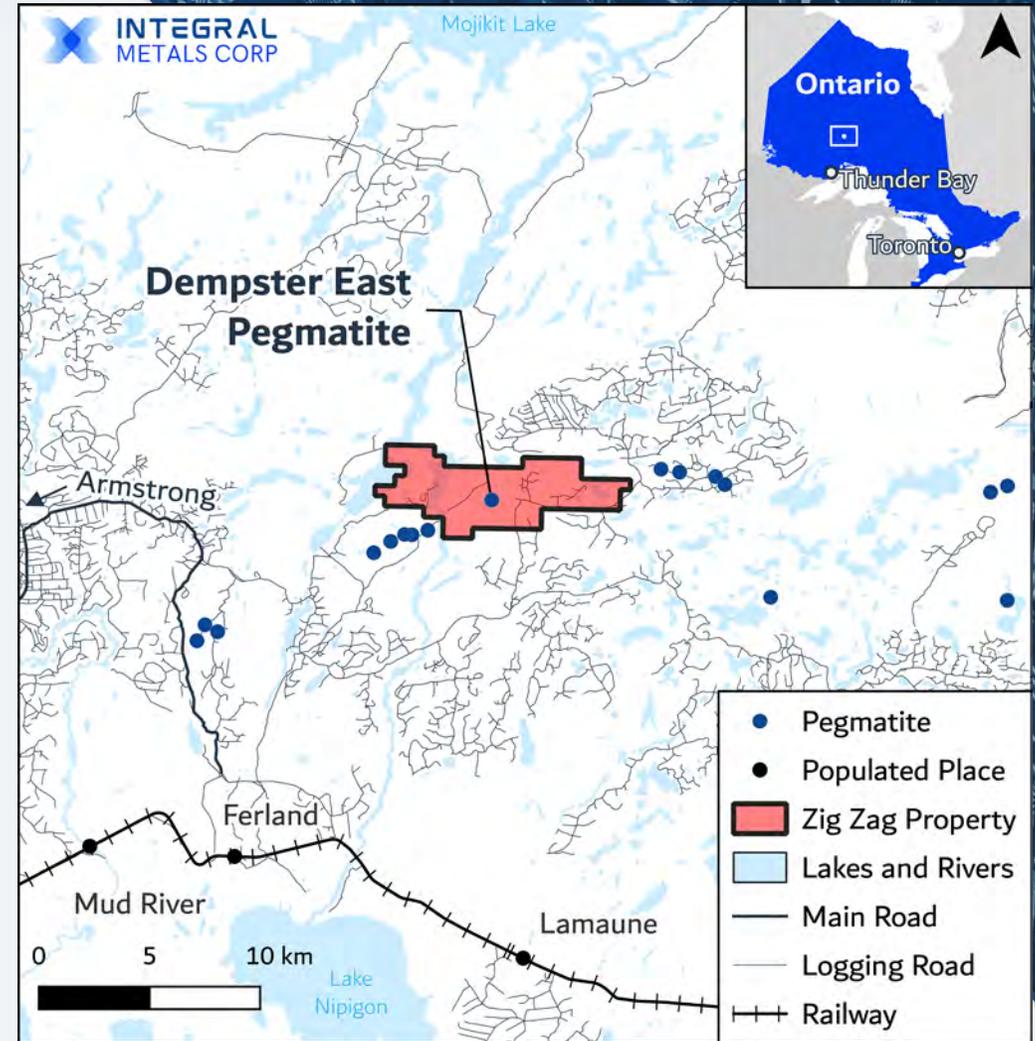


Figure 1: Claim Locations

# Project Location

- ✓ The property is situated approximately 240 kilometers northeast of Thunder Bay, Ontario, and just 60 kilometers east of Armstrong, Ontario, providing an advantageous location in close proximity to key centers.
- ✓ Location has a comprehensive network of logging roads, establishing a resilient infrastructure that supports continuous exploration and evaluation activities year-round.
- ✓ Nestled within the Thunder Bay Mining District, Ontario, the property benefits from a mining-friendly jurisdiction.
- ✓ Drawing from the property's favorable geological and geographical attributes, it is identified as a property of merit.
- ✓ The confluence of these positive factors positions the property as a promising and potentially lucrative investment opportunity in the region.



Figure 2: Zig Zag Property Location

# Project Geology

**Location:** East-Central Caribou Greenstone Belt, Wabigoon Subprovince, Superior Province

*Rare metal pegmatite outcrops enriched in semiconductor metals (e.g., Gallium, Tantalum, Beryllium) have been found in this area, indicating discovery potential.*

**Subprovincial Contact:** Project contacts the English River Subprovince, Superior Province

*Rare metal pegmatites often align with subprovincial boundaries.*

**Host Rocks:** Bedrock composed mostly of intermediate-to-mafic metavolcanic units

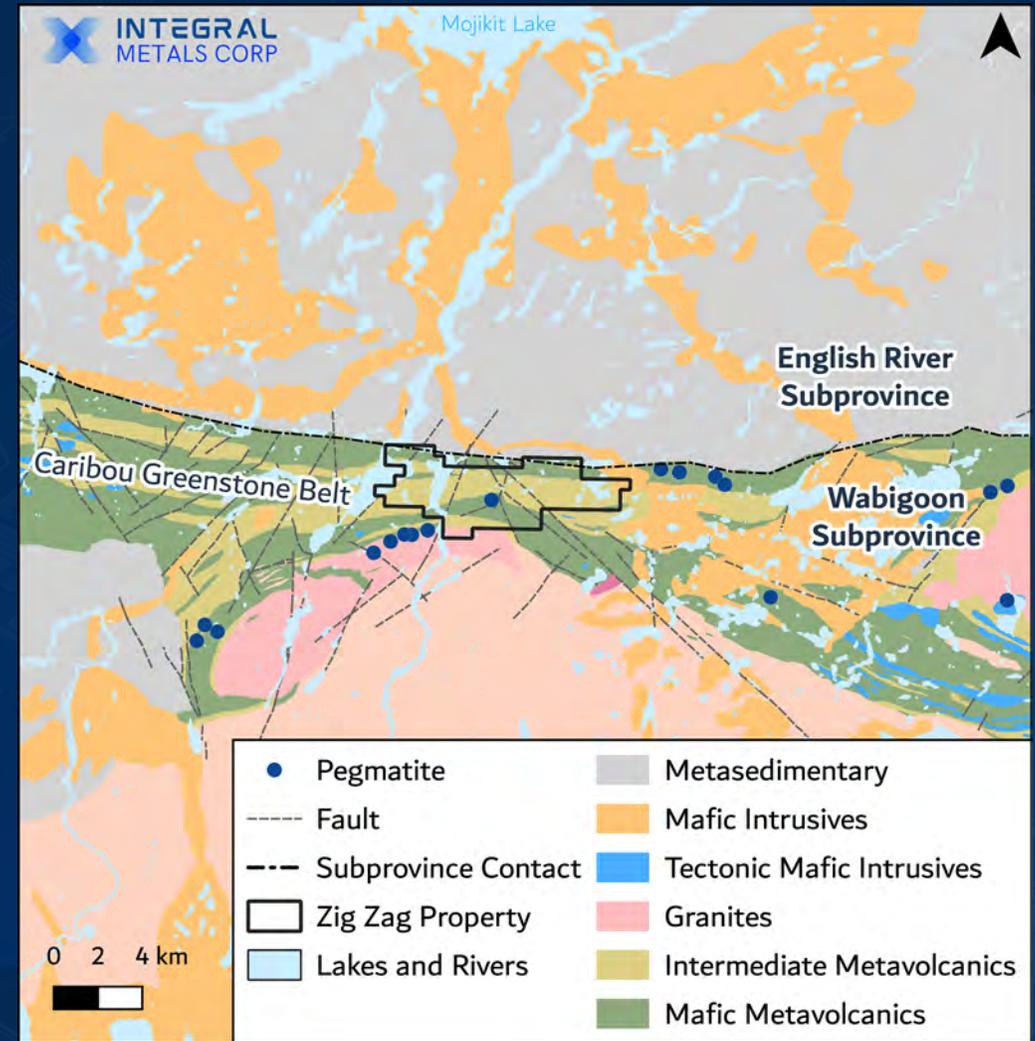
*Rare metal pegmatites typically hosted in mafic metavolcanics.*

**Geological Structures:** Project features numerous north-to-south trending faults

*Pegmatites often follow fault lines as preferential pathways.*

**Pegmatite Characteristics:** Rare metal pegmatite in the project area appears highly fractionated

*Distinct elemental characteristics suggest a specific distance from the parental source.*



**Figure 3:** Zig Zag Property Geology

# Mineralization

*The Dempster East Pegmatite (DEP) is the flagship asset in the project area*

- ✓ An outcropping, metavolcanic-hosted dyke
- ✓ Reports of at least 20% fine-grained spodumene mineralization
- ✓ Includes coarse-grained potash feldspar with associated quartz, albite, muscovite, with accessory blue apatite and tourmaline
- ✓ Exposed surface dimensions are approximately 45 meters x 3 meters
- ✓ The depth, dip, and subsurface extent of the body are unknown

*Channel cutting in 1982 on a nearby, off-property pegmatite reported average values\**

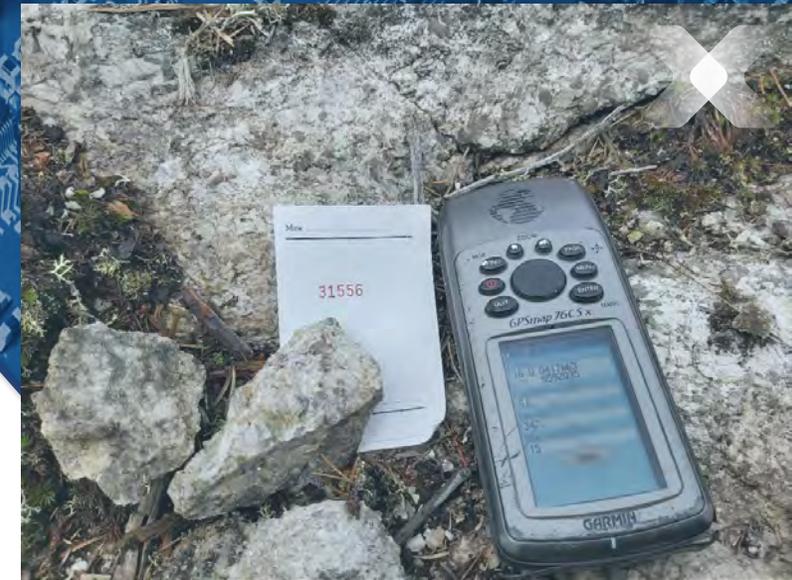
- ✓ Gallium: 0.5 lb/ton Ga (equivalent to 300 ppm  $\text{Ga}_2\text{O}_3$ )
- ✓ Tantalum: 3.75 lb/ton Ta (equivalent to 2,300 ppm  $\text{Ta}_2\text{O}_5$ )
- ✓ Beryllium: Recoverable amounts

*Channel cutting in 2009 on the DEP reported average values\*\**

- ✓ Gallium: 60 ppm Ga (equivalent to 108 ppm  $\text{Ga}_2\text{O}_3$ )
- ✓ Tantalum: 170 ppm Ta (equivalent to 208 ppm  $\text{Ta}_2\text{O}_5$ )
- ✓ Beryllium: 133 ppm Be (equivalent to 368 ppm BeO)

*The surrounding area on the Property is underexplored, but has favorable geological characteristics that support the potential discovery of more LCT pegmatites.*

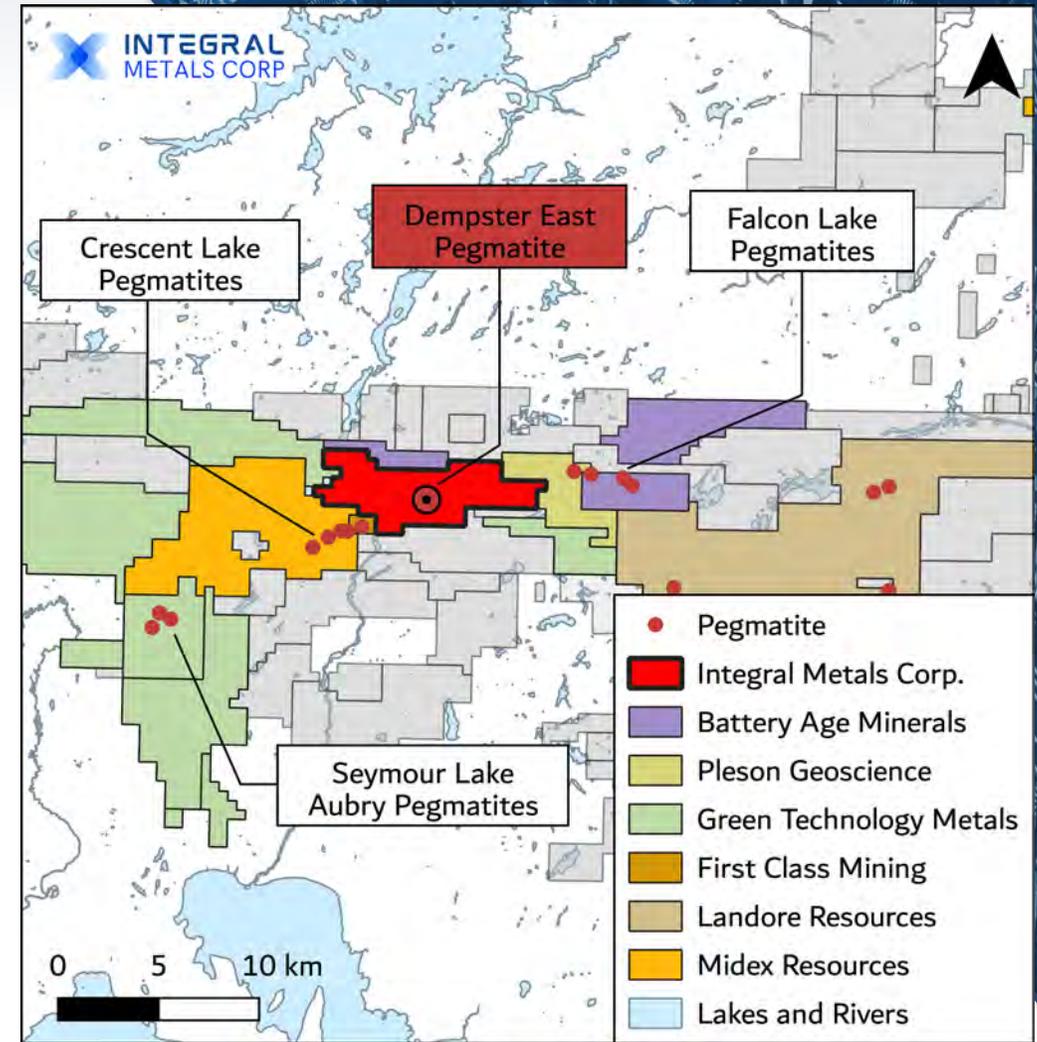
\*36 samples totaling 47 meters on the Tebishogeshik pegmatite      \*\*2 samples totalling 1.5 meters



# Adjacent Locations

***Integral Battery Metal's Zig Zag Property and Dempster East Pegmatite are centrally located in the rare metals play, offering substantial upside potential with the future development of a Mineral Resource Estimate***

- ✓ The Seymour-Crescent-Falcon is a 26-kilometer trend stretching from South Aubry to East Falcon Lake, encompassing at least fourteen known rare metals pegmatites.
- ✓ Operators in the area are advancing projects at various stages of development, including recent prospecting, trenching, and drilling activities.
- ✓ First Class Mining are actively drilling the nearby Tebishogeshik (Zig Zag Prospect) pegmatite, focusing on the development of Gallium, Tantalum, and Rubidium potential.
- ✓ Green Technology Metals are actively drilling the Aubry Pegmatites, recently releasing a Mineral Resource Estimate of 9.9 Mt @ 1.04% Li<sub>2</sub>O with lithium recovery exceeding 72%.



**Figure 4:** Adjacent Properties Map



# Historical Work

## **Work on the Zig Zag Property was conducted during four distinct work periods**

### **1956-59: Dempster Explorations Ltd. performed sampling and drilling**

- ✓ Drill programs on the property were carried out each year with a total of 20 holes drilled with a 7/8 packsack drill
- ✓ Six holes intersected pegmatite, five on the DEP and one 600 meters to the southwest, along trend with the Tebishogeshik/Zig Zag pegmatite\*
- ✓ Six channel samples on the DEP averaged 1.88%  $\text{Li}_2\text{O}$ , while another three averaged 1.78%  $\text{Li}_2\text{O}$  across a width of 4 meters

### **1979: E. and B Explorations Inc. / Cominco Ltd. conducted mapping, geochemistry**

- ✓ A 6.3 kilometer grid was cut for geologic mapping
- ✓ 132 soil samples were collected around the property area for geochemical analysis, reaching upwards of 40 ppm lithium content

### **2009-10: Canadian Orebodies conducted mapping, trenching and sampling**

- ✓ Rock samples were collected from the DEP for geochemical analysis, indicating enrichment in Lithium, Cesium, Beryllium, Tantalum, Niobium, Gallium, Rubidium, and Tin
- ✓ One rock sample that was collected from the DEP for geochemical analysis returned 2.56%  $\text{Li}_2\text{O}$

### **2021: Pleson Geoscience Inc. performed mapping and geochemistry**

- ✓ Channel samples were collected from the DEP for geochemical analysis, averaging 1.86%  $\text{Li}_2\text{O}$
- ✓ The observed spodumene content is at least 20%

\*Based on historical reporting; these holes have not been confirmed by our team in the field.



# Future Work

## *Upcoming work on the Dempster East Pegmatite*

### *Diamond Drilling Program*

- ✓ Characterize pegmatite and host rock
- ✓ Evaluate pegmatite mineralization, zonation, and fractionation
- ✓ Evaluate pegmatite subsurface extent and dimensions

### *Trenching Program*

- ✓ Characterize pegmatite and host rock
- ✓ Evaluate pegmatite mineralization, zonation, and fractionation
- ✓ Evaluate pegmatite subsurface extent and dimensions

### *Magnetic Geophysical Survey*

- ✓ Characterize pegmatite and host rock
- ✓ Evaluate pegmatite mineralization, zonation, and fractionation
- ✓ Evaluate pegmatite subsurface extent and dimensions

## *Upcoming work on the Zig Zag Property*

### *Reverse Circulation Drilling Program*

- ✓ Evaluate soil geochemical anomaly for pegmatite presence

### *Trenching Program*

- ✓ Evaluate soil geochemical anomaly for pegmatite presence

### *Prospecting*

- ✓ Evaluate the property for pegmatite showings
- ✓ Characterize host rock

### *Historical Work*

- ✓ Compile, digitize, and evaluate all relevant historical work on the project area



# KAP Property



# Project Overview

- ✓ The property comprises of 6 mineral claims, covering 7,500 hectares.
- ✓ Integral Metals Corp. owns 100% interest in the KAP property.
- ✓ Accessible from the town of Norman Wells via helicopter. The town provides essential services including a local airport, hotels, gas station, and outfitter.
- ✓ Located northwest of Dal Lake, the property is situated on the east flank of the Redstone Arch, within the Fold Belt of the MacKenzie Mountains. Bedrock units predominantly consist of broadly folded carbonates and shales with intervening zones of complex folding and faulting.
- ✓ Mineralization is stratabound, with numerous occurrences of disseminated and massive sphalerite and galena spread over a large area encompassed by the property, where high grade zinc, gallium, and germanium are associated with collapse and crackle breccias.

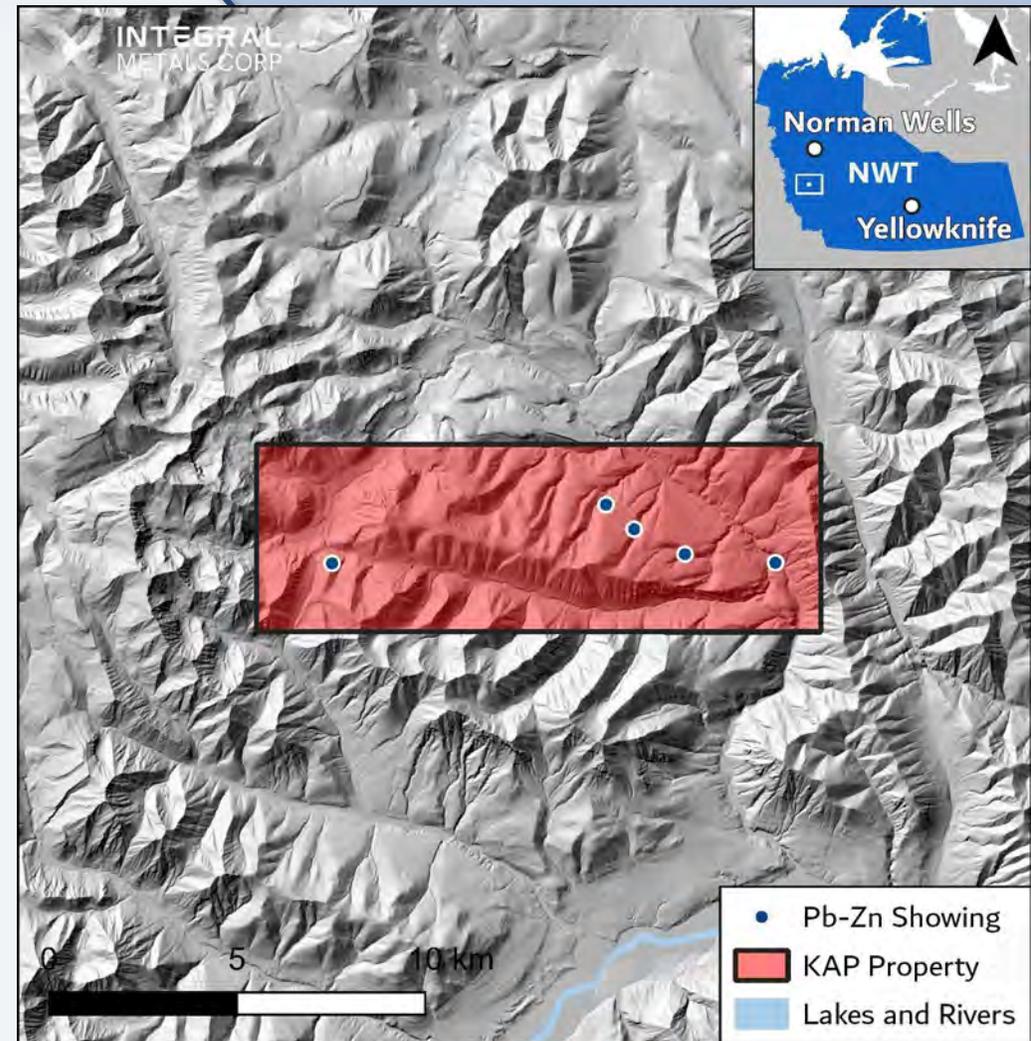


Figure 5: KAP Property Overview

# Project Location

- ✓ The property is situated approximately 220 kilometers south of Norman Wells, NWT, and just 160 kilometers east of Wrigley, NWT.
- ✓ The all-weather MacKenzie Highway extends to Wrigley and is serviceable throughout most of the year. Exploration activity staging can be performed at Dal Lake (20 km from project) where float-equipped aircraft can land and unload heavy equipment.
- ✓ Situated on publicly-held Commissioner's Land, well spaced from First Nation land withdrawals and National park spaces.
- ✓ Positioned within the Mackenzie Mining District, NWT.



Figure 6: KAP Property Location

# Project Geology



**Location:** East Proterozoic Redstone Arch, MacKenzie Fold Belt, Cordilleran Orogenic Zone

*Regional Devonian carbonates are a favorable target zone for Mississippi Valley-type (MVT) orebodies.*

**Stratigraphic Contact:** The Arnica-Landry Contact is exposed by steeply incised stream valleys, which cut down from a plateau area to expose mineralization

*The abundance of known sphalerite-galena showings at the same stratigraphic level wherever this contact is exposed indicates high-potential for additional blind mineralization beneath the plateau over an 11 km x 13 km area.*

**Host Rocks:** The Manetoe Facies of the Landry Formation

*Mineralization is stratabound within this facies, where a 4.0 km x 1.5 km area is inferred to have the best potential for blind MVT deposits at less than 250 m depth below surface.*

**Geological Structures:** Mineralization occurs on the limb of a gently dipping, broad syncline that characterizes the topography

*The topography reveals the unit at surface, while structure-control provides an opportunity for more discoveries along the fold limbs.*

**Mineralized Characteristics:** The Manetoe Facies exhibits brecciation, fracturing, granular dolomite, bitumen coated quartz needle silicification, dolspar, and calspar

*These features are associated with MVT deposits, such as the historic Pine Point lead-zinc mine in the NWT.*

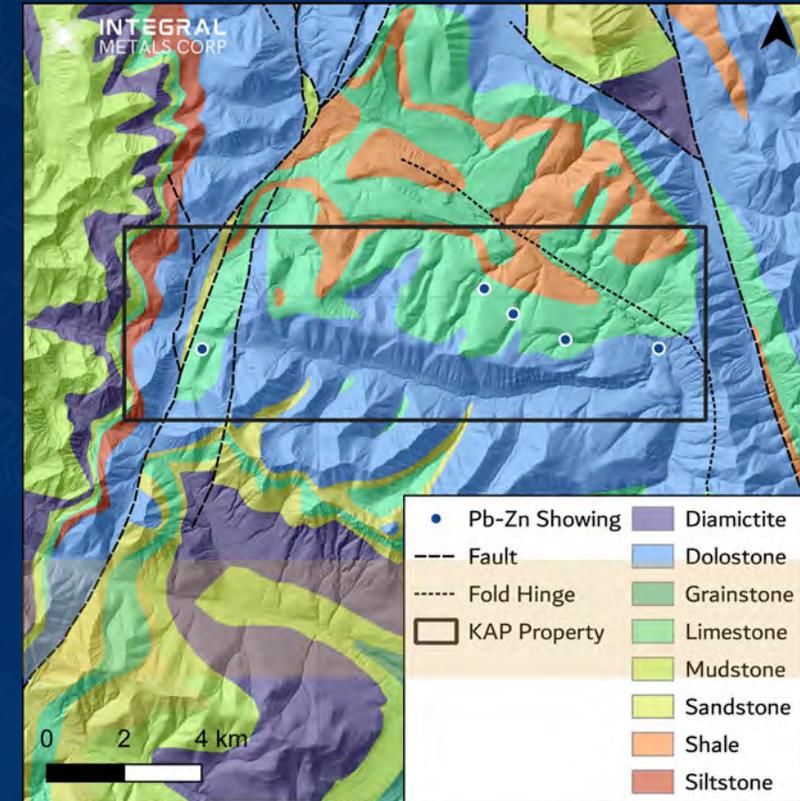


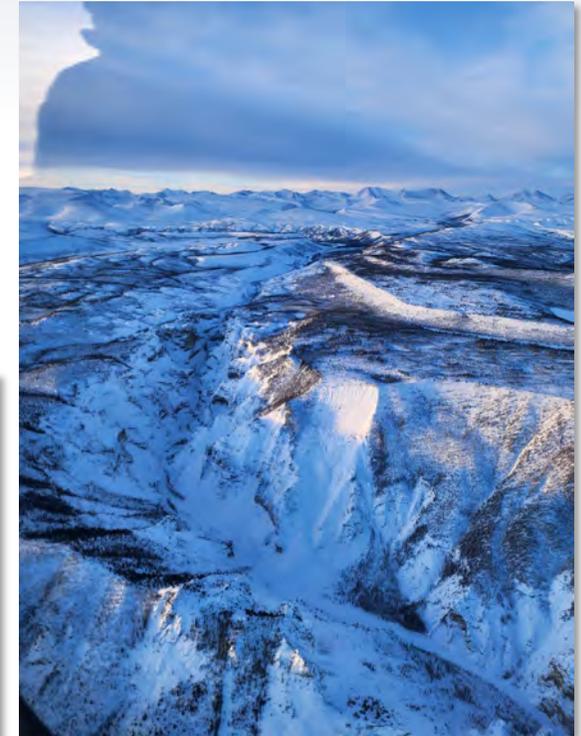
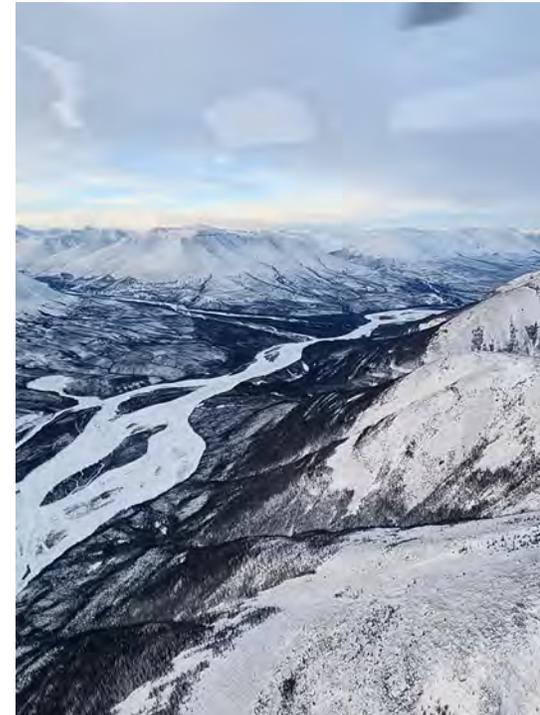
Figure 7: KAP Property Geology

# Mineralization



- ✓ Zinc-bearing Sphalerite is reportedly elevated in gallium (190 ppm) and germanium (770 ppm)\*
- ✓ High-grade, clean, coarse sphalerite ore so far discovered is expected to have excellent milling and beneficiation characteristics
- ✓ The showings so far defined are associated with a collapse and crackle breccias that extend into the plateau area, providing the opportunity to discover significant blind zones of high-grade mineralization
- ✓ **Main Showing**
  - ✓ Drill-tested high-grade deposit with a non-compliant resource estimate of about 50,000 t at 17.8% Zn covering 4,200 m<sup>2</sup>
  - ✓ Several untested gravity and soil geochemistry anomalies along strike
- ✓ **Steep Creek Showing**
  - ✓ Hand samples indicate 24.5% Zn covering 9 m<sup>2</sup>
  - ✓ Similar geologic setting as the Main Showing
- ✓ **Breccia Creek Showing**
  - ✓ Channel sample graded 34.4 % Pb over 0.6 m
  - ✓ High-grade galena is associated with calcite
  - ✓ Potential for significant subsurface mineralization
- ✓ **Blanche Showing**
  - ✓ Sphalerite, galena, and tetrahedrite
  - ✓ Grab samples graded 61% Zn, 33% Pb, and 185 ppm Ag

\*Averaged across 9 samples taken by Equinox Resources (1986)



# Adjacent Locations

- ✓ Integral Metal's KAP Property encompasses the entire mineralized southwest fold limb and hinge.
- ✓ Operators in the area are advancing projects at various stages of development, including prospecting and drilling activities.
- ✓ The Pine Point Pb-Zn mine in the NWT is a part of the same geological Mississippi Valley-type (MVT) events that formed KAP.
- ✓ Redbed Resources Corp. is actively developing the Redstone project, with a Mineral Resource Estimate of 33.4 Mt @ 3.92% Cu and 11.3 g/t Ag.
- ✓ Fireweed Metals is preparing to perform up to 3,000 m of drilling on the Gayna project, hosting Zn and Pb, along with elevated concentrations of Ga and Ge.

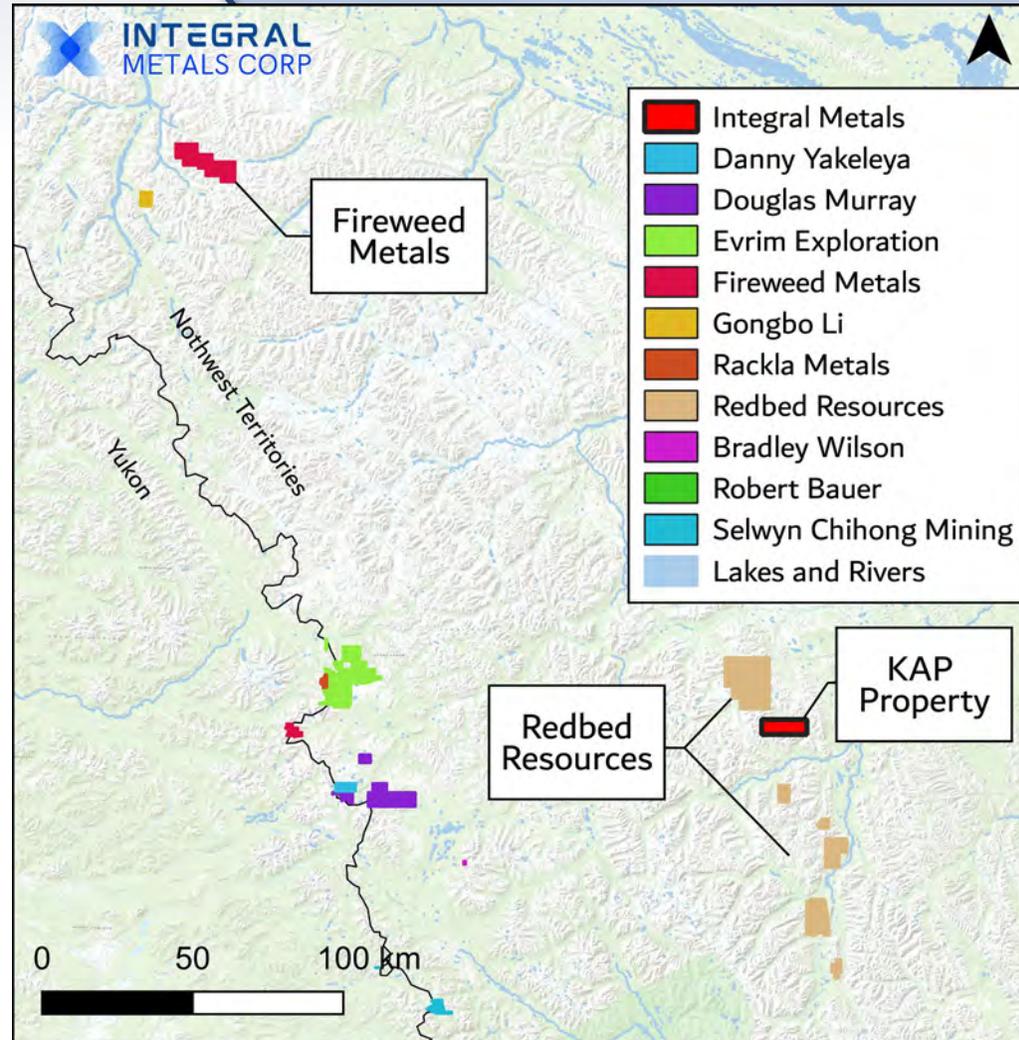


Figure 4: Adjacent Properties Map

# Historical Work



## *1975: Cominco Ltd. performed a regional exploration program*

- ✓ Discovered significant Pb-Zn mineralization at the KAP and Adyjo showings

## *1976: Cominco Ltd. performed geological mapping and sampling, soil geochemistry, trenching, and diamond drilling*

- ✓ Discovered the Blanche and Olaxis showings
- ✓ Thirteen drill holes on the Main Showing Area up to 40 m depth; five holes returned 2.5 m to 13.5 m of zinc ore ranging from 10.3% to 32.3%
- ✓ Several anomalous zones were identified by soil geochemistry samples exceeding 1,000 ppm Zn and 2,000 ppm Pb
- ✓ Mapped the fold structure and identified the mineralized Manetoe Facies as being up to 80 m thick

## *1985: Equinox Resources Ltd. performed geochemical analysis*

- ✓ Re-sampled the showings and reported high levels of gallium and germanium in the zinc-bearing sphalerite

## *1994: Firesteel Resources Inc. performed geophysical surveying*

- ✓ Five gravity anomaly zones were identified across a 2.8 km<sup>2</sup> area surrounding the Main Showing

## *1996: Firesteel Resources Inc. performed geophysical surveying and diamond drilling*

- ✓ Extended the gravity survey coverage to the northwest and southeast
- ✓ Thirteen drill holes re-tested some of the 1976 holes; tested two of the gravity anomalies; and stepped out from the Main Showing
- ✓ Results indicate excellent potential to find significant zones of high grade zinc along strike, towards the Breccia and Steep Creek Showings

## *1998: Firesteel Resource Inc. performed soil geochemistry*

- ✓ Orientation study over the Main Showing confirmed soil sampling as an effective technique to detect mineralization
- ✓ An new anomalous zone was identified away from the Main Showing



# Future Work

## *Upcoming work on the KAP Property*

### *Camp*

- ✓ Construct a remote camp to support exploration workers

### *Magnetic and Imagery Surveys*

- ✓ 3D inversion model of subsurface magnetic structures to gain insights into the geological structures that are hosting mineralization
- ✓ High-resolution imagery to detect and map exposed zones of mineralization across the property

### *Soil Sampling*

- ✓ Coverage to be expanded to cover all of the area underlain by the Landry Formation, targeting mineralization related to collapse and crackle breccias

### *Diamond Drilling*

- ✓ Evaluate the Main Showing
- ✓ Evaluate the untested Gravity Anomalies
- ✓ Evaluate the trend of the collapse breccia going under the plateau

### *Critical Element Geochemistry*

- ✓ A more comprehensive assay program to encompass gallium and germanium mineralization associated with high-grade zinc
- ✓ Additional research on the habit of occurrence and potential economic impact of gallium and germanium

# Integral Team Members



## **PAUL SPARKES** *Chief Executive Officer*

Paul Sparkes is an accomplished business leader and entrepreneur with over twenty-five years of experience in media, finance, capital markets and Canada's political arena. Paul spent a decade as a leader in the broadcast and media industry as CTV Globemedia's Executive Vice President, Corporate Affairs. He also held senior positions in public service, including with the Government of Canada as Director of Operations to Prime Minister, Jean Chretien, and as a senior aide to two Premiers of Newfoundland and Labrador. Paul was a Co-Founder and executive vice chairman at Difference Capital Financial and serves on a number of private and public boards. He is currently President of Otterbury Holdings Inc. and is an advisor and deal maker for growth companies in the private and public markets.

## **DR. JARED SUCHAN,** **PH.D., P. GEO.** *VP of Exploration*

Dr. Suchan is a professional geoscientist with nearly 10 years of experience in the exploration and development of mining projects in Canada. He received his Ph.D. in Environmental Systems Engineering in 2023 and his Honours B.Sc. in Geography and B.Sc. in Geology in 2016 from the University of Regina. His expertise is in the development and execution of early-stage mineral exploration programs in the remote regions of Canada. His previous experience includes coal mining operations and uranium exploration in Saskatchewan, rare earth element and diamond exploration in the Northwest Territories, and gold exploration in the Yukon. Dr. Suchan currently serves as the Chief Operating Officer for the rare earth element exploration company Northern Critical Minerals Corp., and as a Managing Partner with the mineral exploration project generator company Voyageur Exploration Ltd.

## **Tasheel Jeerh** *Chief Financial Officer*

Mr. Jeerh, CPA, CA is a finance and accounting professional bringing over 10 years of accounting expertise and management experience to the team. Mr. Jeerh has experience in both public and private sectors, over a broad range of industries, including energy, mining, exploration and technology. Prior to joining the Company, Mr. Jeerh played a pivotal role in the growth of a private upstream oil and gas company, dealing with over \$2.0 billion of M&A activity and \$1.0 billion of financing activities. Mr. Jeerh received his designation at PricewaterhouseCoopers LLP, where he gained valuable audit experience through his work as a manager in the assurance practice.

## **UNGAD CHADDA** *Director*

Mr. Chadda is an experienced capital markets regulator and financial services executive having previously worked at TMX Group, the parent company of the Toronto Stock Exchange. Mr. Chadda was responsible for building and maintaining the TMX Group investor base as well as supporting its public interest mandate and strategies to grow as a company. Mr. Chadda joined TMX Group through one of its predecessor entities in 1997. During his tenure, Mr. Chadda held progressively senior roles, including Director of Listings, TSX Venture Exchange; Chief Operating Officer, TSX Venture Exchange; Vice President, Business Development, Toronto Stock Exchange and TSX Venture Exchange; President, Toronto Stock Exchange; CFO of TSX Trust (formerly Equity Transfer and Trust) an OSFI regulated entity; and SVP, Head of Enterprise Corporate Strategy and External Affairs, TMX Group. Ungad currently advises clients on capital markets, regulatory and governance strategies. Mr. Chadda attended McMaster University, where he received an Honours Bachelor of Commerce in 1994 and he received his Chartered Accountancy designation while working with Ernst and Young LLP in 1996. Mr. Chadda has served on multiple boards and has completed the University of Toronto's Rotman Business School Director Education Program.

# Integral Advisory Team



## **KEVIN FRAM**

### **Advisor**

Mr. Fram brings over 35 years experience in the federal government, principally as a former Public Servant at Fisheries and Oceans Canada, where he held a leadership role in the Indigenous Affairs Directorate. During his time with DFO, Mr. Fram, in partnership with Indigenous groups from across the country, championed the co-development and co-delivery of DFO's Indigenous capacity-building programs. Upon his retirement from the Public Service, Mr. Fram was awarded the David C. Bevan award for Outstanding Career at Fisheries and Oceans Canada. Mr. Fram previously served as Executive Assistant to the Governor General of Canada, Special Assistant to the Prime Minister of Canada, as well as a senior political advisor to several Ministers of Fisheries and Oceans, the Minister of Natural Resources, as well as to the Leader of the Government in the House of Commons.

## **NICHOLAS THADANEY**

### **Advisor**

Mr. Thadaney is a finance, technology and capital markets senior executive with over 25 years experience. He founded Partners Capital Corp. and previously served as Head of the Toronto Stock Exchange in the role of President & CEO, Global Equity Capital Markets, TMX Group and prior to that as CEO of ITG Canada Corp (now Virtu Financial). Before his tenure at ITG, Mr. Thadaney was Vice-President, Business Development (Equities) at C.T. Securities Inc.(Canada Trust), which was later acquired by T.D. Securities Inc. (TD Bank) in 1999. Mr. Thadaney also currently serves as a senior advisor to a number of firms and a director on several boards. Mr. Thadaney has also been a board and committee member of a number of prominent businesses, industry associations, and registered charities, including: Bermuda Stock Exchange; CanDeal; Investment Industry Regulatory Organization of Canada (IIROC); Investment Industry Association of Canada; JA (Junior Achievement) Canada; Mount Sinai Hospital Asset Management Industry Hold'em for Life Charity (Co-Chair); Toronto Financial Services Alliance (now Toronto Finance International); Young Presidents Organization (Ontario Chapter); and the World Federation of Exchanges SME Advisory Board.

## **Raj H. Chahal**

### **Advisor**

Mr. Chahal is an entrepreneur and lawyer with interests in real estate, energy and education. Mr. Chahal has an LLB (Hons) from the London School of Economics and a B.A. in Political Science & Geography from the University of Calgary. Mr. Chahal served as a Western & Northern Desk from 1994–1998 to the Prime Minister of Canada and then from 2001-2003 he served as a Policy Advisor to the Prime Minister of Canada. Currently, he is the Managing Director of Chahal Investment Corp., a Real Estate Development Firm based in Calgary.



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Thank you

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