

Critical and Precious Metals Exploration in Canada

▶ XTM – TSXV |

Disclaimer

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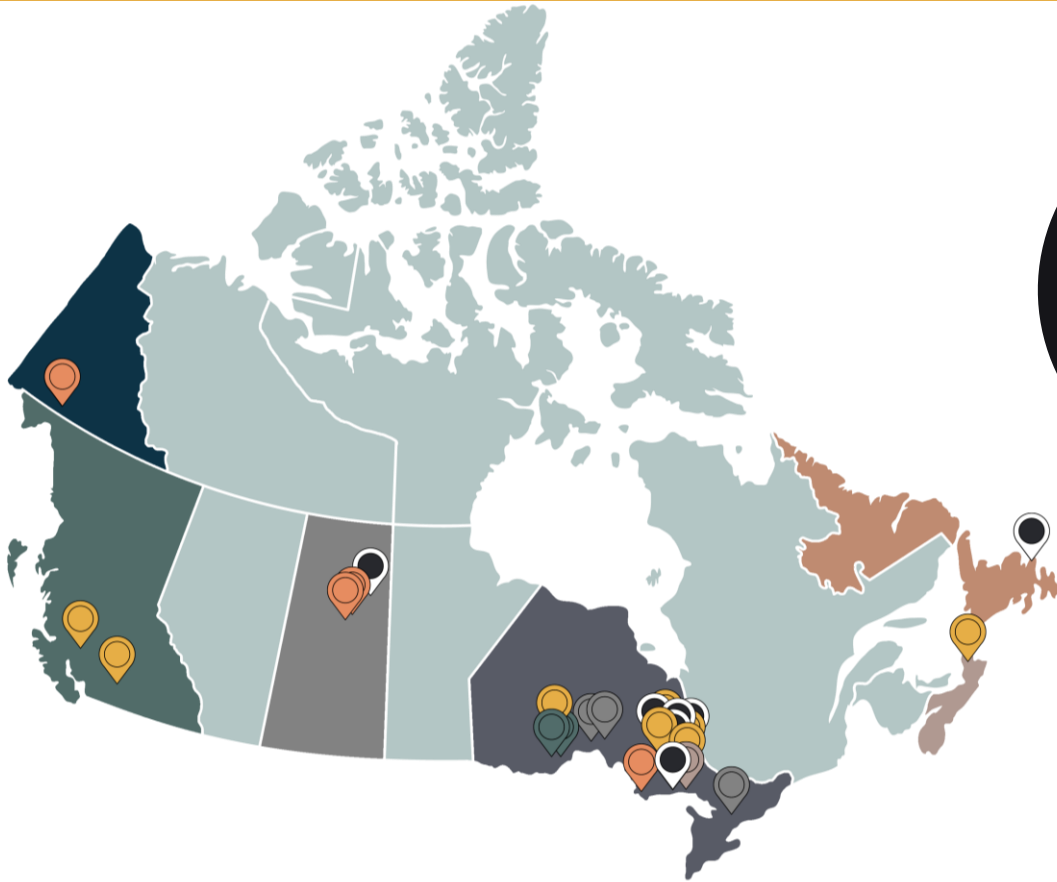
Multi Commodity Portfolio

Exploration Projects Across Canada



Transition Metals

-  Gold
-  Copper
-  PGM
-  Nickel
-  Tungsten
-  Royalty



Asset portfolio by commodity



25 projects & royalties in mining friendly jurisdictions across Canada

Award Winning Technical Team

Track Record for Discovery



SCOTT MCLEAN

HBSc., P.Geo.

CEO & Co-founder

- **2004** PDAC Prospector of the Year for Nickel Rim South Discovery
- **2014** Ontario Discoverer of the Year
- Over 35 years experience, 23 years with Falconbridge/ Xstrata (Responsible for the Sudbury Exploration Investment)

XTM:TSXV

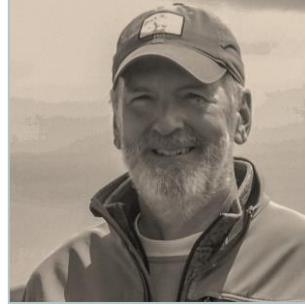


GREG COLLINS

BSc. Eng., P.Geo.

COO & Co-founder

- Over 25 years experience in exploration, mine planning and operations, and management
- Numerous Au, and Ni-Cu-PGM discoveries in Canada and Vietnam
- Helped attract over \$250M in venture capital to mining projects



TOM HART

MSc., P.Geo.

Principal Geologist

- Co-recipient of the Northwestern Ontario Prospectors Association 2004 Discovery of the Year Award
- Specialist in lode gold and base metals systems on surface and underground
- Over 40 years experience in exploration and mapping programs



BEN WILLIAMS

MSc., P.Geo.

Senior Geologist

- Program management leader with experience implementing field programs across Canada
- Specialist in igneous petrology, isotope geochemistry, value-added mapping
- Over 10 years experience in exploration and mapping programs



SARAH REESE

B.A.Sc., G.I.T.

Project Geologist

- Field operations lead with technical proficiency and a collaborative approach
- Contributes an engineering and creative media background for a multidisciplinary perspective
- Actively engaged in both local and global geological communities through outreach programs and field courses

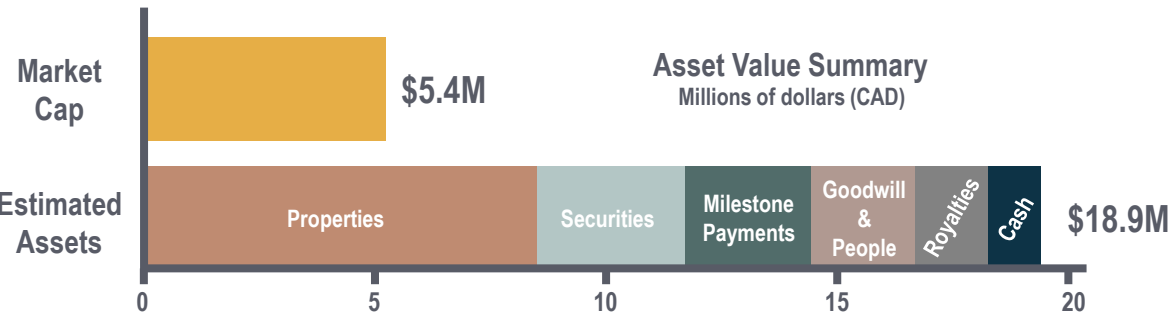
Asset Portfolio

Cash, Property, Investments and Royalties



Transition Metals

Trading below cash with tight capital structure



Capital Structure*

Shares Outstanding:	67.3M
Options/Warrants/DSUs/RSUs:	13.3M
Fully Diluted:	80.6M
Market Cap:	\$5.4M
Cash & Securities:	\$4.6M

* As of June 5, 2024

Marketable securities owned valued at \$3.7 million *



RICH COPPER
EXPLORATION CORP.



Canadian Gold Miner

Demand For Critical Metals

Creates New Opportunity for Value Creation

“Critical minerals are the building blocks for the green and digital economy. There is no energy transition without critical minerals: no batteries, no electric cars, no wind turbines and no solar panels. The sun provides raw energy, but electricity flows through copper. Wind turbines need manganese, platinum and rare earth magnets. Nuclear power requires uranium. Electric vehicles require batteries made with lithium, cobalt and nickel and magnets. Indium and tellurium are integral to solar panel manufacturing.”

Canadian Critical Minerals Strategy excerpt

Pike Warden Cu-Au



Maude Lake Ni-Cu



Saturday Night PGM-Ni-Cu



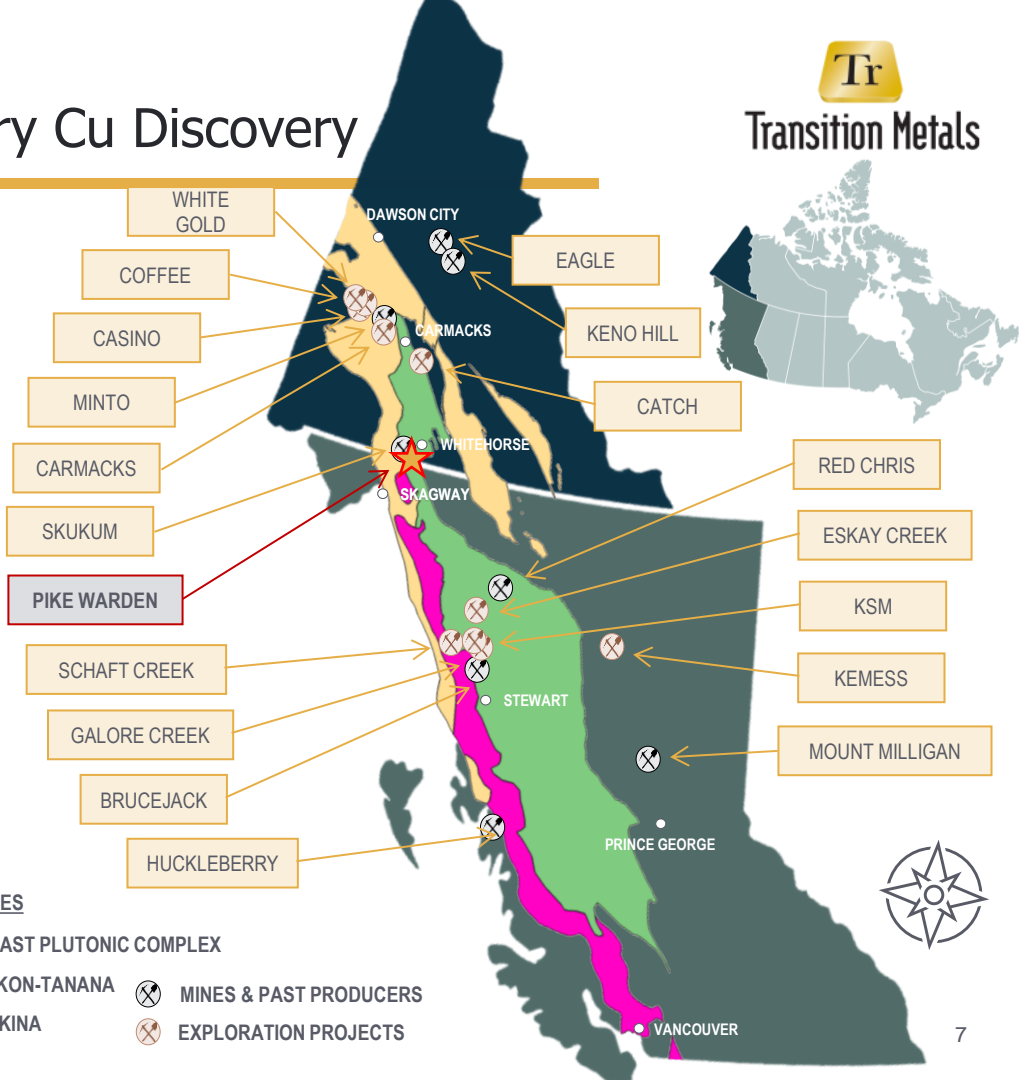
Projects have attracted \$1,000,000 in grant funding over 3 years

Pike Warden: Location

Polymetallic Precious Metal & Porphyry Cu Discovery



- New polymetallic **epithermal** precious metal and **porphyry** copper discovery in the Yukon, **Pike Warden** is located near the Yukon-BC border
- **Northwest** of BC's **Golden Triangle**, in an **underexplored gap** on the margin of the Cordilleran Intermontane Belt, which hosts numerous deposits including:
 - Galore Creek, Shaft Creek, Red Chris – **Porphyry** Cu, Au, Mo
 - Eskay Creek, KSM, Brucejack – **Epithermal** Au, Ag
- **Southeast** of the Dawson Range, **along trend** in similar geology, which hosts numerous deposits including:
 - Casino, Minto, Carmacks, Catch – **Porphyry** Cu, Au
 - Coffee, White Gold, Skukum – **Epithermal** Au, Ag



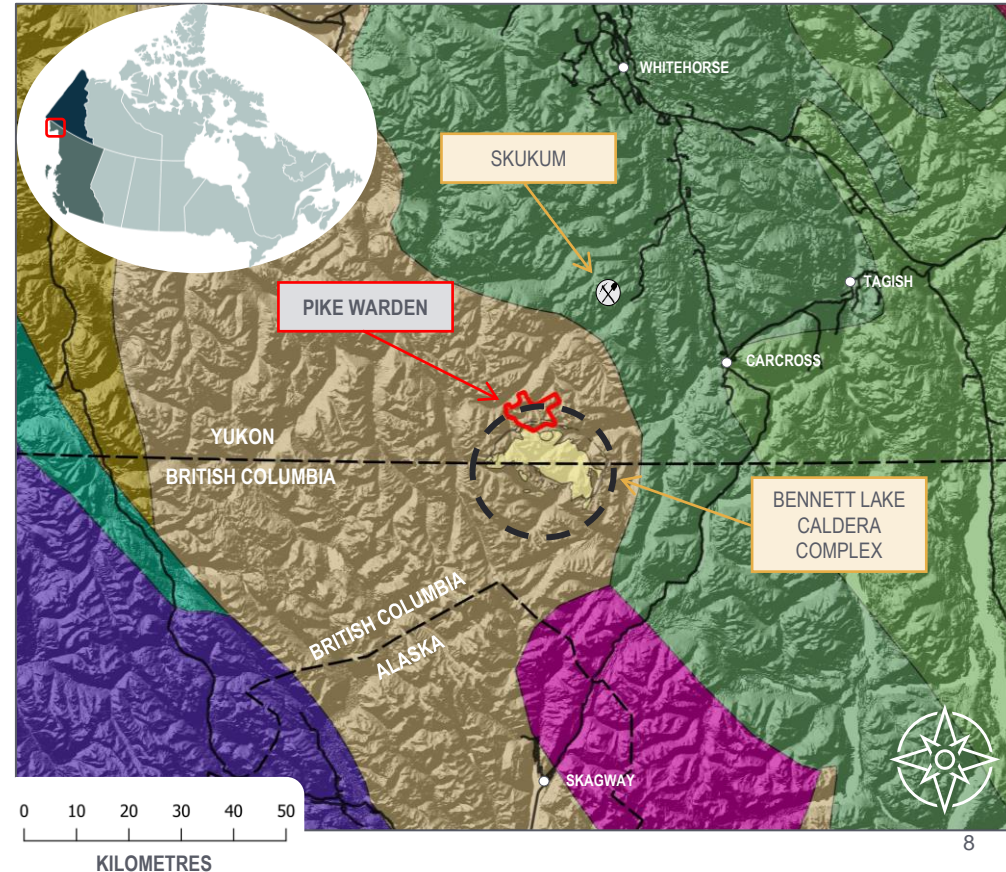
Pike Warden: Story

Giant Collapsed Caldera

- On the northern margin of the Eocene **Bennett Lake Caldera**, one of the **largest collapsed caldera** structures in Canada
- Favourable **geodynamic environment** for hosting large scale polymetallic **epithermal Au-Ag** and **porphyry Cu-Mo** systems
- Close to **Whitehorse**, with road **infrastructure** to deep-sea port in Skagway, Alaska,
- Transition Metals recently confirmed the presence of both high sulphidation **epithermal Ag-Au** and **porphyry Cu-Mo** systems

TERRANES

	ALEXANDER		COAST PLUTONIC COMPLEX
	WRANGELLIA		YUKON-TANANA
	KLUANE SCHIST		CACHE CREEK
			STIKINA





Pike Warden: Robust Data Sets

Define Patterns at System Scale

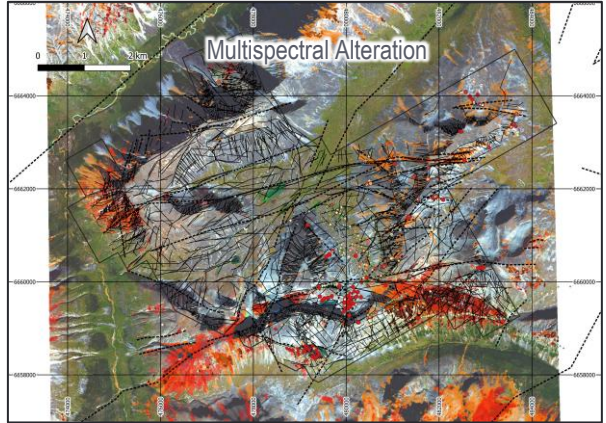
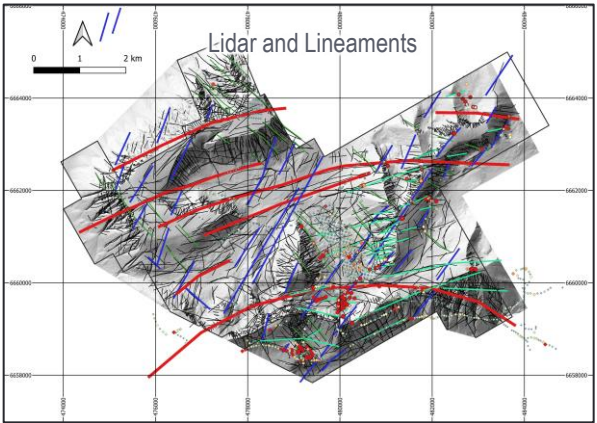
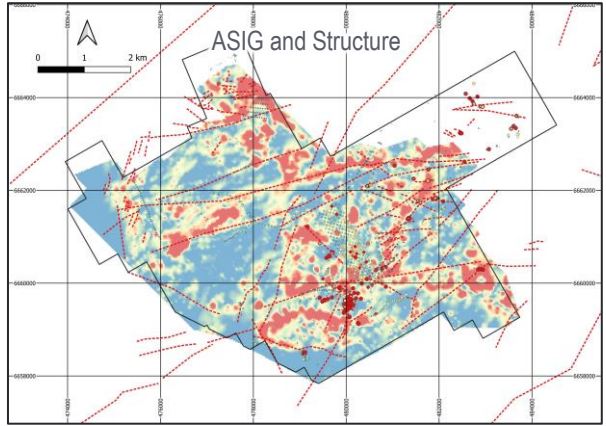
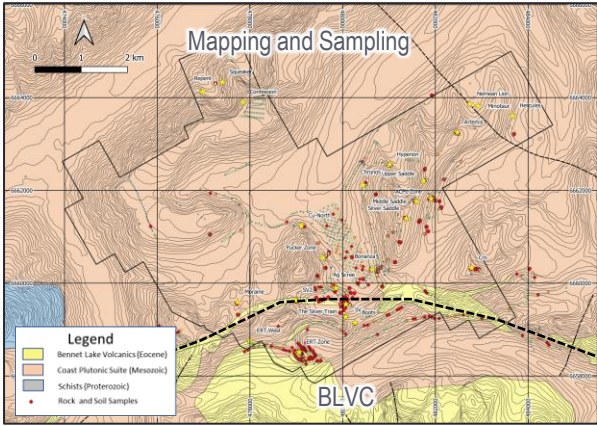
- Rocks and soils highlight elevated trends in Au, Ag, Cu and Mo

- >25 polymetallic showings, returning values up to:

48.1 g/t Au,
11,270 g/t Ag,
7.49% Cu,
2.37% Mo

- High density LiDAR generated high quality DEM

- Lineaments from LiDAR, orthophotos, and geophysics

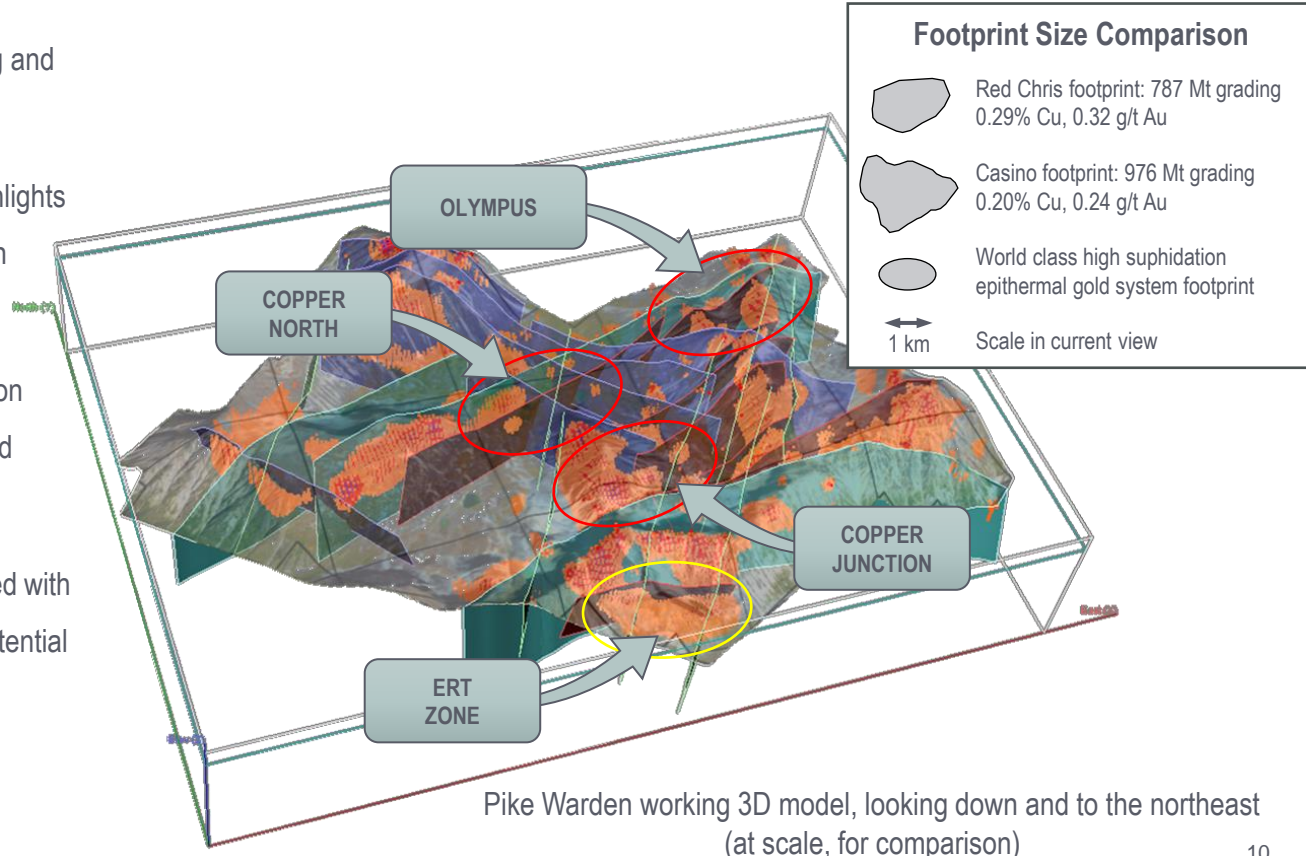


- High resolution magnetics, VLF and radiometric data
- Alteration mapping utilizing AI-deep learning of Worldview 3 multispectral band data
- Highlight geology, structural relationships, and alteration patterns
- Trends of argillic alteration associated with higher Au-Ag
- Petrography highlights phyllic and potassic alteration associated with Cu-Mo

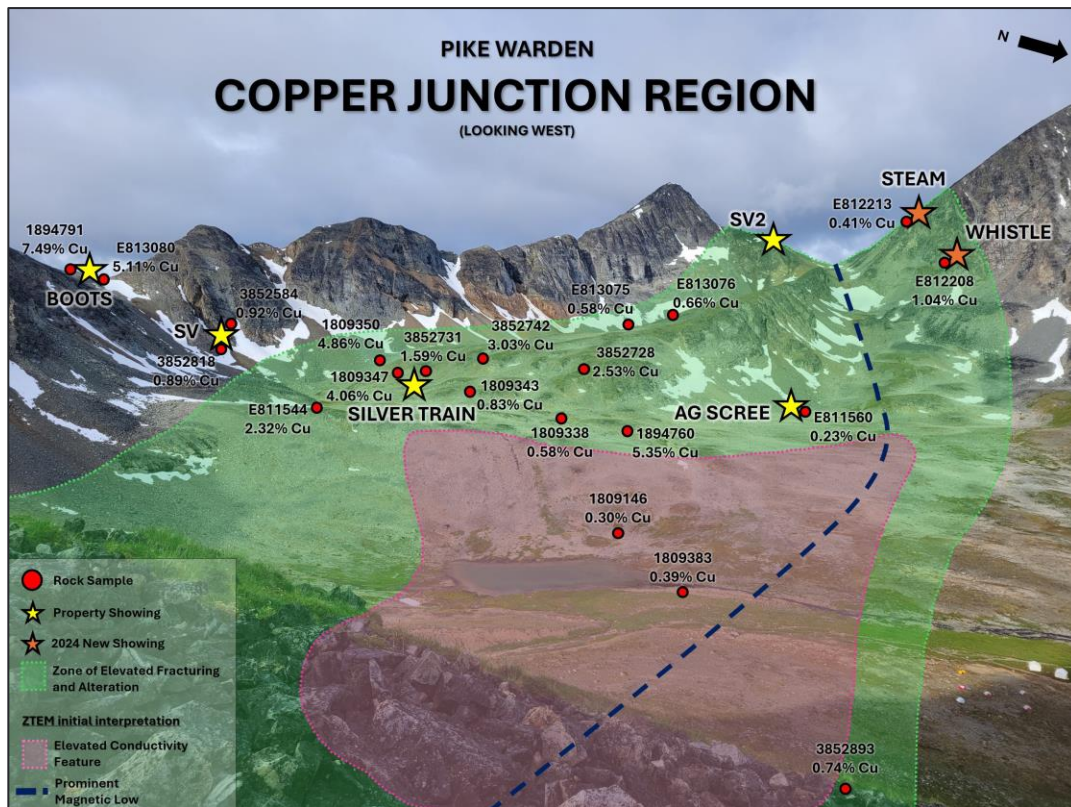
Pike Warden: Compelling New Evidence

Stacked Porphyry Cu-Mo & Au-Ag Epithermal Systems

- **Widespread** occurrence of **high-grade Au-Ag** and Cu-Mo mineralization
- Rock sample trace element geochemistry highlights both **epithermal** and **porphyry** style alteration signatures
- Petrography supports late **epithermal** alteration **overprint** of an earlier (hotter) Cu-Mo enriched **porphyry** style alteration
- Confirmation of **potassic alteration** associated with high grade Cu-Mo mineralization, supports potential **subcropping/near surface** porphyry system



Pike Warden: Copper Junction Target



Funding & Permits in Place

- Critical FT raised by XTM in 2023
- Program approved for Class 1 permit and \$50,000 YMEP grant funding

Geophysical Survey & Initial Summer Fieldwork Completed

- ZTEM survey to map large scale resistivity features to assess scale and depth of prospective porphyry centers
- Geological mapping and sample collection in key locations, with additional focus on mapping alteration and vein styles within copper porphyry target zones

Geophysical Modelling Currently Underway

- 2D and 3D ZTEM processing and inversions being undertaken by Ken Witherly at Condor Consulting

Drilling Planned

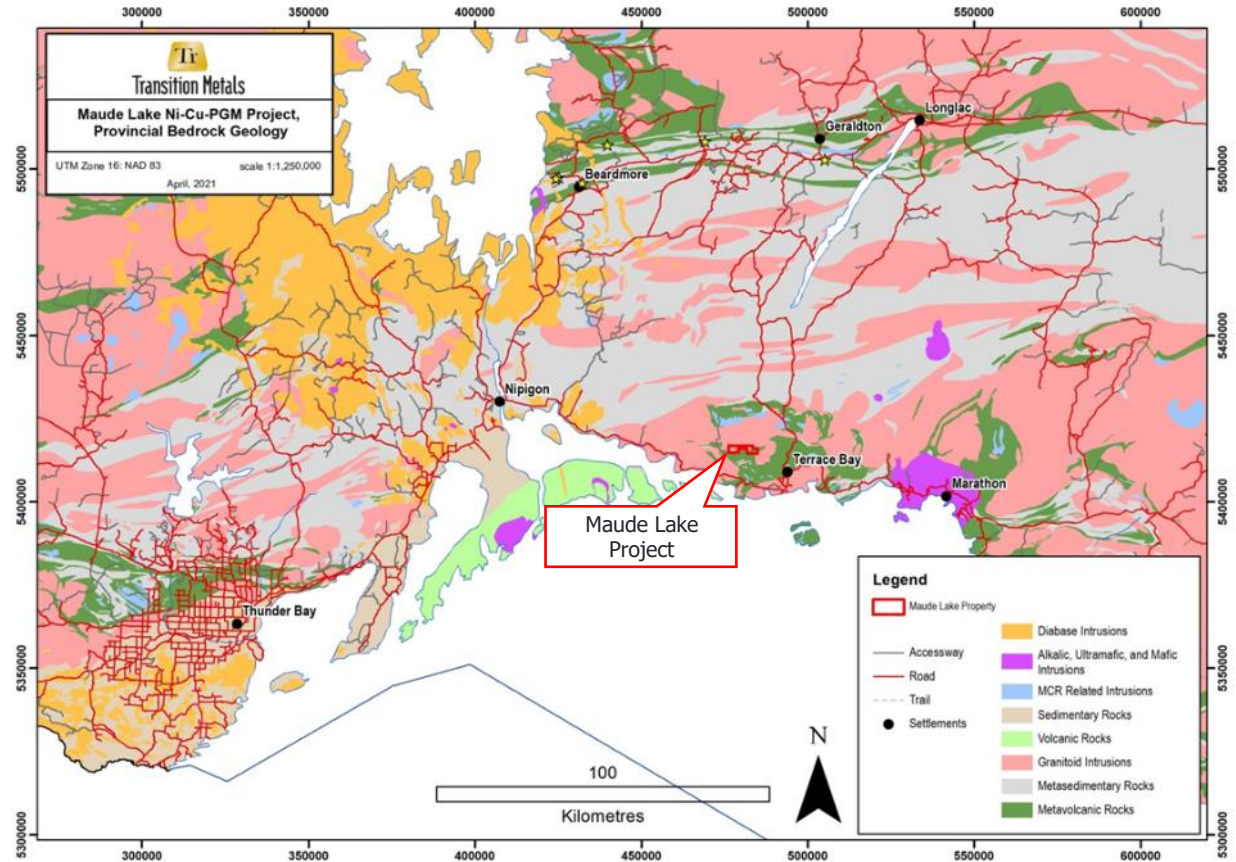
- Evaluate Copper Junction porphyry target

Maude Lake Property Location



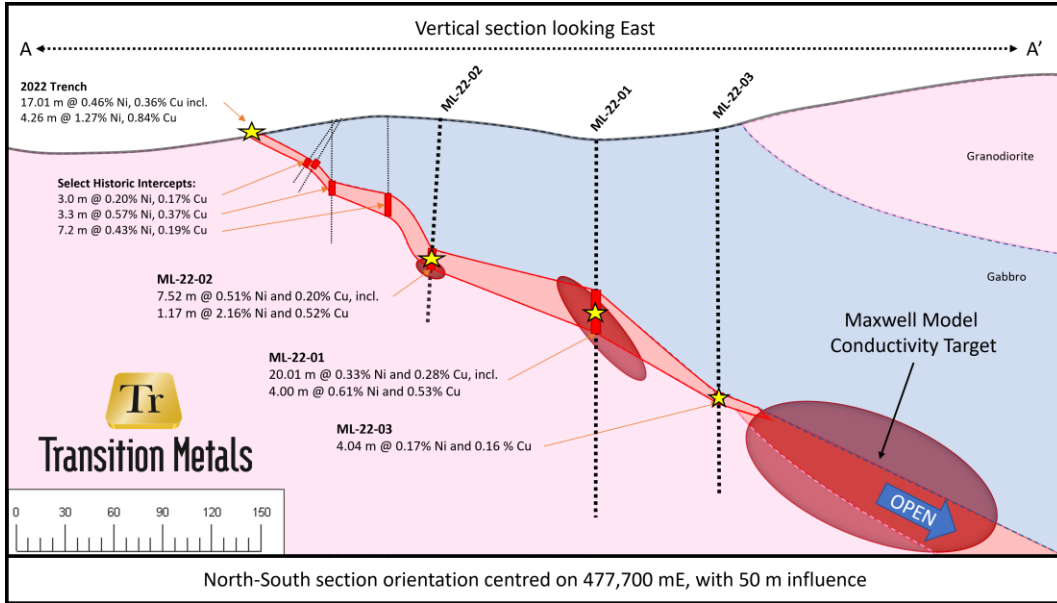
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- 100% owned, 14 square km optioned mining claims
- Located along the north shore of Lake Superior, 160 km NE of Thunder Bay
- 10 km north of the Trans-Canada, near Schreiber, ON
- On the traditional territory of Pays Plat First Nation
- Two identified mineralized systems on the Property
 - Magmatic Ni-Cu-Co-PGM, and
 - VMS Cu-Zn-Ag





Maude Lake: Drilling



- Three diamond drill holes for 561 metres completed in September
- Targeted 300 x 500 metres conductive anomaly down-dip known near surface mineralization
- Significant intervals of high tenor Ni-Cu-Co and PGM mineralization were intersected in all 3 holes
- Highlight intercepts include:
 - 20.01 metres averaging 0.33% Ni, 0.28% Cu including **4.00 metres averaging 0.61% Ni, 0.52% Cu** in hole ML-22-01
 - **1.17 metres averaging 2.16% Ni, 0.52% Cu** in Hole ML-22-02

Borehole EM Surveys

- Borehole surveys detect a large untested off-hole conductor from hole ML-22-03 at a depth of 160 metres downhole.

Hole	From	To	Length	Ni (%)	Cu (%)	Co (%)	Pt (g/t)	Pd (g/t)	Au (g/t)	3E PGM (g/t)
ML-22-01	99.99	120.00	20.01	0.33	0.28	0.01	0.03	0.08	0.02	0.13
<i>Including</i>	109.00	113.00	4.00	0.61	0.53	0.02	0.04	0.15	0.04	0.23
ML-22-02	88.48	96.00	7.52	0.51	0.20	0.02	0.02	0.06	0.02	0.10
<i>Including</i>	93.92	95.09	1.17	2.16	0.52	0.06	0.06	0.19	0.02	0.27
ML-22-03	151.96	156.00	4.04	0.17	0.16	0.01	0.02	0.04	0.01	0.07

*Note: 3E PGM = (Pt + Pd + Au)

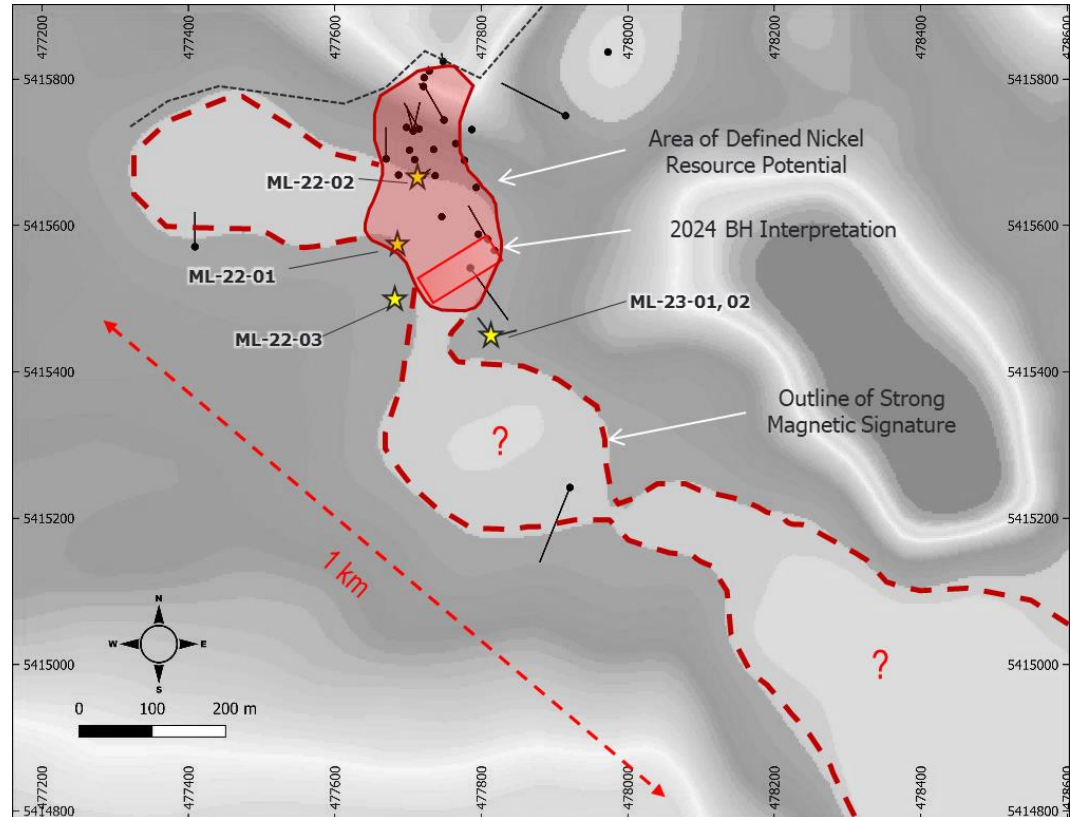
Maude Lake: Mineralized Trend

Near Surface High Tenor Ni-Cu Resources



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- Near surface drilling has outlined a ~300 x 100m x 10 to 20m thick zone of Ni-Cu mineralization along basal contact of intrusion
- Average grades ~0.4% Ni, 0.3% Cu, values > 2.16% Ni, 0.52% Cu over narrow intervals
- Increased grade thickness trend corresponds to strongest mag signature
- Mag highlighting pinch and swell geometry with offsets, highlighting possible embayment features
- Drilling to date has **only investigated a very small portion** of this large mineralized system

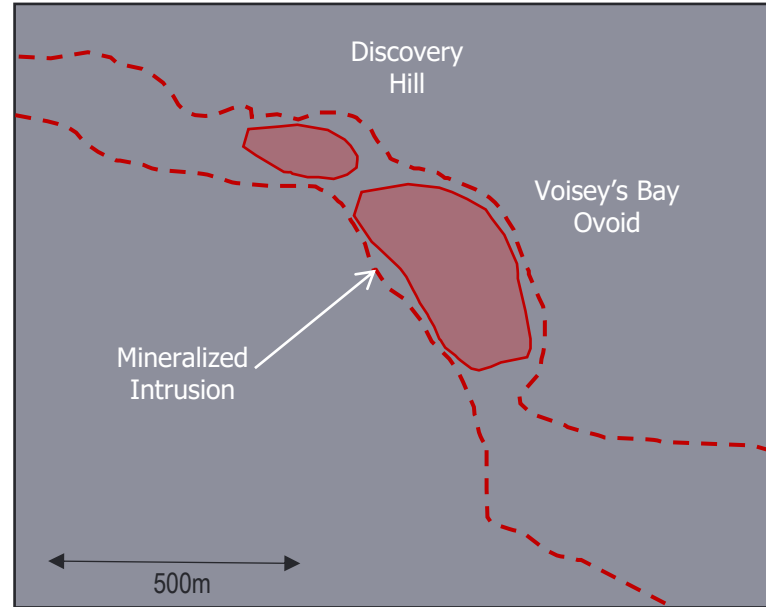
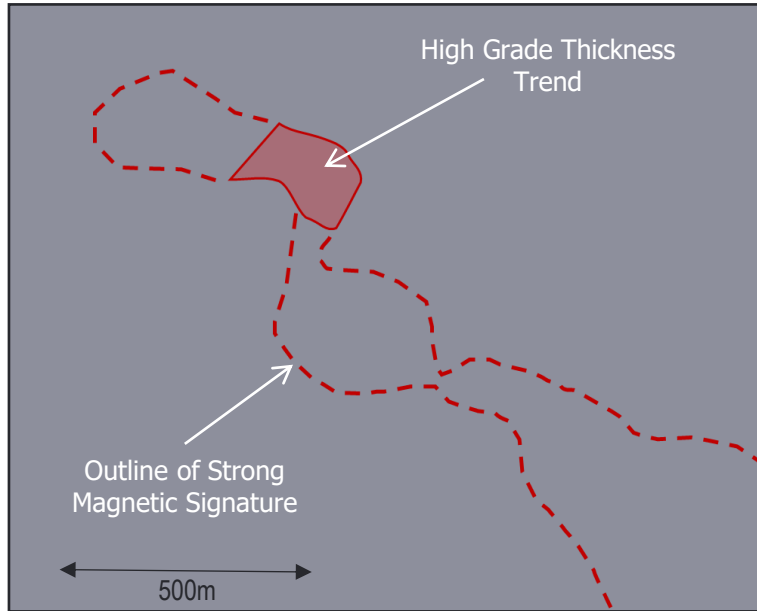


Maude Lake: Size Potential Comparison of Scale

Maude Lake

vs

Voisey's Bay



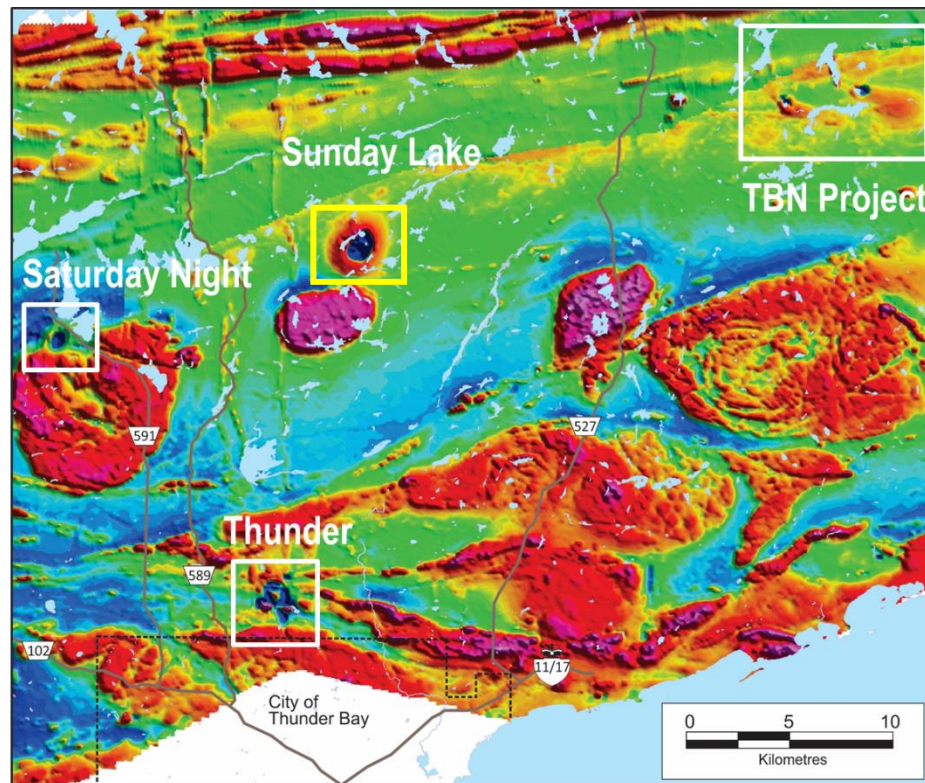
Red dashed line at Voisey's Bay shows limit of known mineralized intrusion – dashed line at Maude highlights outline of strong magnetic signature.
Red shaded area at Voisey's Bay shows footprint of Discovery Hill and Ovoid Orebodies – red shaded at Maude highlights High Grade x Thickness trend

Saturday Night: Thunder Bay Area

Early Rift Intrusions



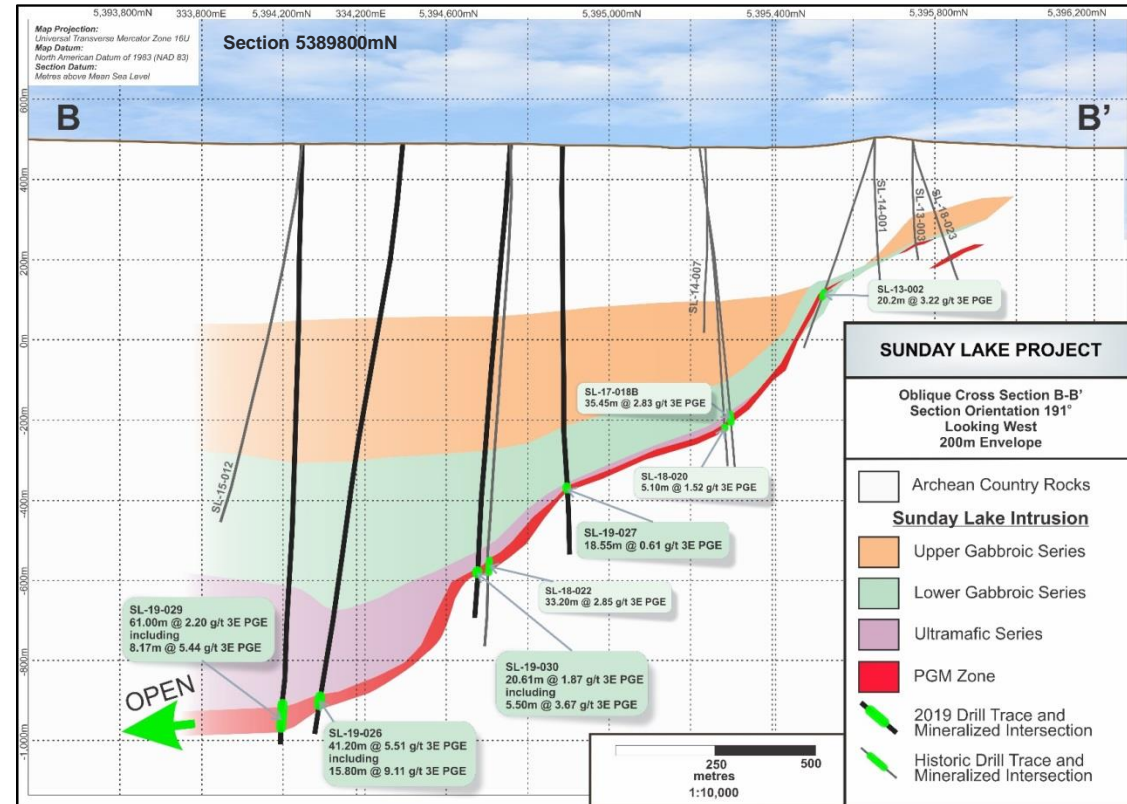
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- Sunday Lake & Saturday Night are two of largest known “early” mid continental rift related intrusions in Thunder Bay area
- Similar age to Lundin’s **Eagle** mine in Michigan, Talon Resources **Tamarack** project in Minnesota and Clean Air Metals, **Thunder Bay North** deposit in Ontario
- Early Rift Intrusions have specific geophysical, geochemical and lithological signatures
- Sunday Lake is well developed and with 43 drill holes, totaling 34,157 metres
- Saturday Night has 1 drill hole, totaling 601 metres

Sunday Lake

Drill Results



DDH	From (m)	To (m)	Length (m)	Pt g/t	Pd g/t	Au g/t	PGM g/t	Cu wt.%	Ni wt.%
DL-13-002	395.00	415.20	20.20	2.11	0.95	0.16	3.22	0.26	0.11
SL-14-003	526.00	541.00	15.00	1.80	0.92	0.12	2.84	0.22	0.09
SL-15-010	723.00	738.00	15.00	1.25	0.75	0.08	2.08	0.20	0.08
SL-15-013	849.70	892.60	42.90	1.92	1.40	0.11	3.43	0.44	0.17
including	871.40	881.50	10.10	3.18	2.28	0.16	5.62	0.71	0.28
SL-17-18B	667.70	703.15	35.45	1.65	1.09	0.09	2.83	0.41	0.16
including	684.50	703.15	18.65	2.43	1.49	0.13	4.05	0.48	0.17
SL-18-021	863.50	899.35	35.85	2.40	1.32	0.18	3.90	0.43	0.17
including	875.05	898.35	23.30	3.34	1.83	0.26	5.43	0.60	0.21
with	890.85	897.35	6.50	5.17	2.62	0.55	8.34	1.08	0.36
SL-18-022	1039.00	1072.20	33.20	1.68	1.03	0.13	2.84	0.34	0.12
including	1056.00	1066.90	10.90	3.08	1.65	0.25	4.98	0.51	0.14
SL-19-026	1392.00	1433.20	41.20	3.22	2.08	0.21	5.51	0.57	0.19
including	1417.40	1433.20	15.80	5.42	3.35	0.34	9.11	0.88	0.24
with	1418.85	1427.15	8.30	7.67	4.97	0.42	13.06	1.23	0.32

*Select intercepts from drilling at Sunday Lake

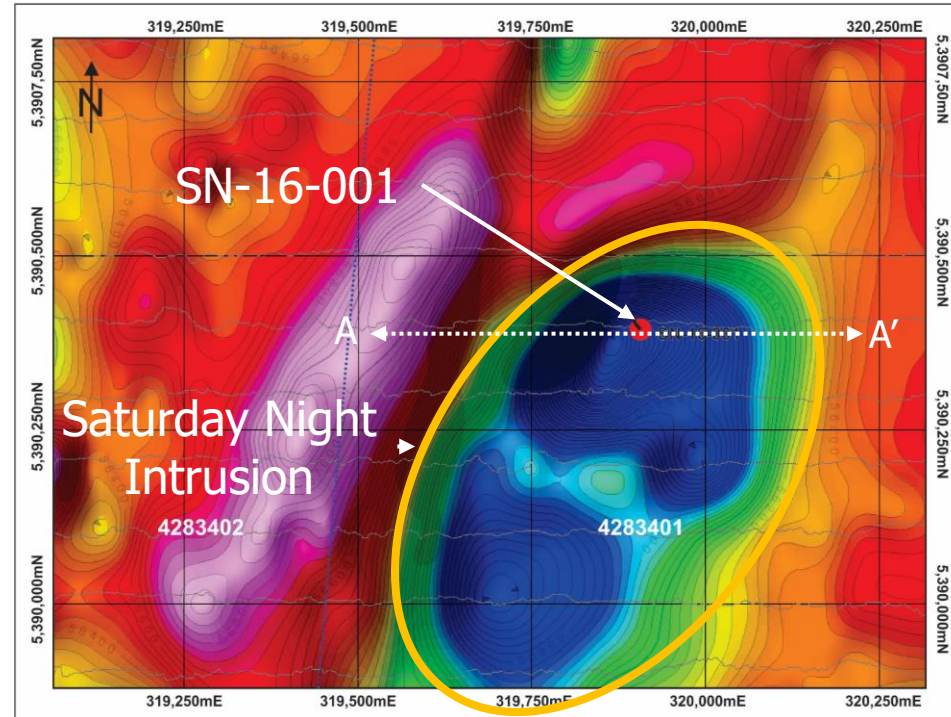
- Semi continuous zones of mineralization at the base of the Sunday Lake intrusion carrying grades in the 5.0-8.0 g/t combined PGM's (Pt+Pd_Au) over 5-10 metres
- Occur within more continuous zones with grades ranging from 2.0-3.0 g/t PGM over 10-60 metres of thickness
- Best Intersection:

41.2 metres @ 5.51 g/t PGM incl;
8.3m @ 13.06 g/t PGM

Saturday Night Discovery

Drilling Confirmed Mineralization

- **SN-16-001:** (601 m, Az: 030°, Dip: -89°)
- Intersected a buried mafic to ultramafic layered intrusion over a core length of 225.25 metres
 - from 287.7 m to 513.25 m
- Geochemically, the intersected intrusion is **identical** to both the Sunday Lake and Thunder Bay North Intrusions
- Hanging wall lithologies are **intensely altered, brecciated** and **strongly magnetic**, which is comparable in size and intensity as the Sunday Lake Intrusion
- Near the base of the intrusion **elevated PGM-Cu-Ni mineralization** associated with disseminated and blebby sulphides were encountered,
- Results of **6.25m @ 1.07 g/t PGM** (Pt+Pd+Au), including: **0.30m @ 4.0 g/t PGM** and **0.56% Cu**
- **Comparable to discovery holes of other MCR intrusions.**



Leveraged Investment

Use of Proceeds

Considering a private placement to:

Leverage access to grant funding in Ontario and Yukon

- *Drill Test Copper Junction porphyry target at **Pike Warden***
- *Define and test deeper mineralization at **Maude Lake***
- *Follow-up PGM discovery hole at **Saturday Night***
- *Obtain DTC Eligibility and undertake more aggressive marketing into US*

Projects have attracted \$1,000,000 in grant funding over 3 years

Approved for an additional \$250,000 in grant funding in 2024-25



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Appendix: Additional Material

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