

MAYO

**HIGHWAY** 

MAINTENANCE SECTION

Km 110 - Km 0

for Equipment Working"

"Drive Safely and Watch



#### **BUILDING GOLD RESOURCES IN YUKON**

# AurMac Project: A Geochemical Exploration Success Story

James Thom, Senior Geologist Tara Christie, President and CEO

October 29, 2021

### FORWARD LOOKING STATEMENT



This presentation contains forward-looking information, which is not comprised of historical facts. Such information can generally be identified by the use of forwarding-looking wording such as "may", "will", "expect", "estimate", "anticipate", "intend", "believe" and "continue" or the negative thereof or similar variations. Forward-looking information involves risks, uncertainties and other factors that could cause actual events, results, performance, prospects and opportunities to differ materially from those expressed or implied by such forward-looking information. Forward looking information in this presentation includes, but is not limited to, the potential for the Powerline and Airstrip Deposits and Aurex Hill Zone to host on-surface and near-surface gold mineralization; the future expansion of the mineralized footprint at the Powerline and Airstrip Deposits; the expected timing of the remaining assay results from the 2021 exploration program; future drilling at the AurMac Property and the expected timing thereof; the timing and expected scope of the planned 2022 AurMac Property exploration program; Banyan's objectives, goals or future plans; statements regarding exploration expectations, exploration or development plans; and mineral resource estimates. Factors that could cause actual results to differ materially from such forward-looking information include, but are not limited to, uncertainties inherent in resource estimates, capital and operating costs varying significantly from estimates, the preliminary nature of metallurgical test results, delays in obtaining or failures to obtain required governmental, environmental or other project approvals, political risks, uncertainties relating to the availability and costs of financing needed in the future, changes in equity markets, inflation, changes in exchange rates, fluctuations in commodity prices, environmental liability and insurance; reliance on key personnel; the potential for conflicts of interest among certain officers, directors or promoters with certain other projects; competition; dilution; the volatility of common share price and volume, delays in the development of projects and the other risks involved in the mineral exploration and development industry, enhanced risks inherent to conducting business in any jurisdiction, and those risks set out in Banyan's public documents filed on SEDAR. Although Banyan believes that the assumptions and factors used in preparing the forward-looking information in this presentation are reasonable, undue reliance should not be placed on such information, which only applies as of the date of this presentation, and no assurance can be given that such events will occur in the disclosed time frames or at all. Banyan disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required by law.

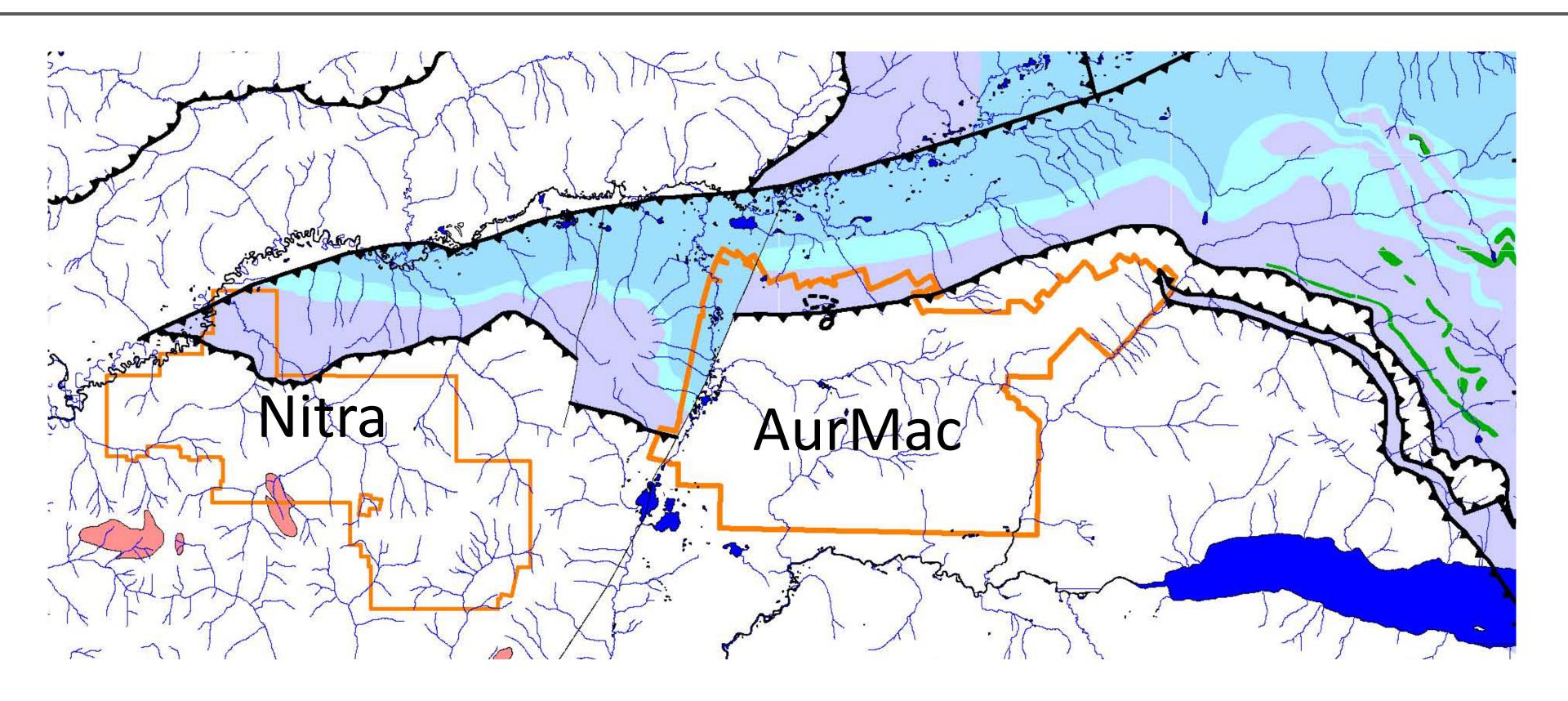
Cautionary Note to U.S. Investors Concerning Estimates of Measured, Indicated and Inferred Resources: This presentation uses the terms "Measured", "Indicated" and "Inferred" Resources. U.S. investors are advised that while such terms are recognized and required by Canadian regulations, the Securities and Exchange Commission does not recognize them. "Inferred Resources" have a great amount of uncertainty as to their existence, and great uncertainty as to their economic and legal feasibility. It cannot be assumed that all or any part of an inferred resource will ever be upgraded to a higher category. Under Canadian rules, estimates of Inferred Resources may not form the basis of feasibility or other economic studies. U.S. investors are cautioned not to assume that all or any part of an Inferred Mineral Resource exists, or is economically or legally mineable.

#### **Qualified Person:**

Paul D. Gray, P.Geo. is a "qualified person" within the meaning of such term as set forth in National Instrument 43-101 of the Canadian Securities Administrators, has verified and supervised the preparation of all of the scientific and technical information contained in this presentation.

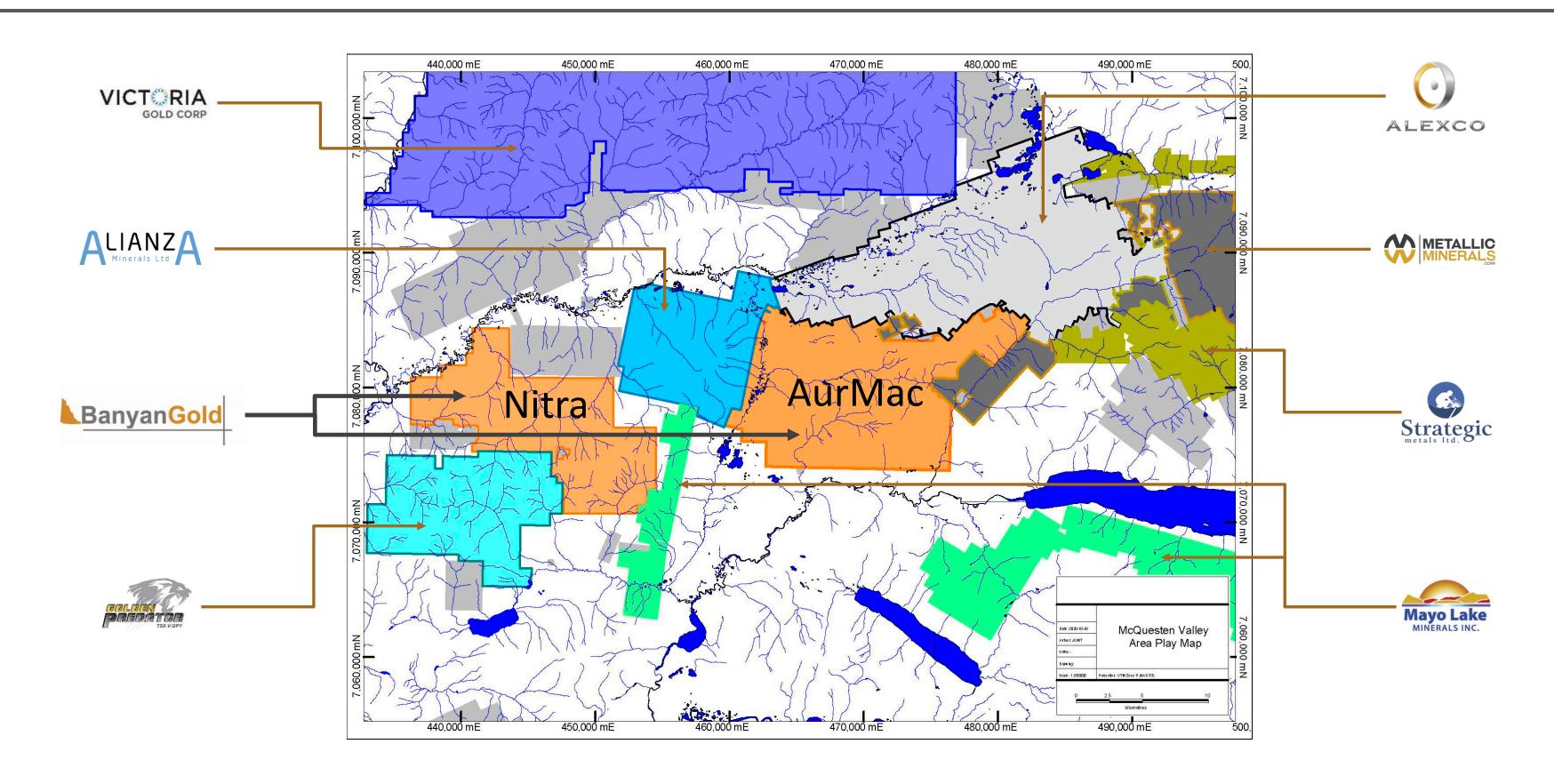
# SEDIMENT-HOSTED, INTRUSION RELATED GOLD SYSTEM: PERSPECTIVES FROM THE AURMAC PROJECT, YUKON





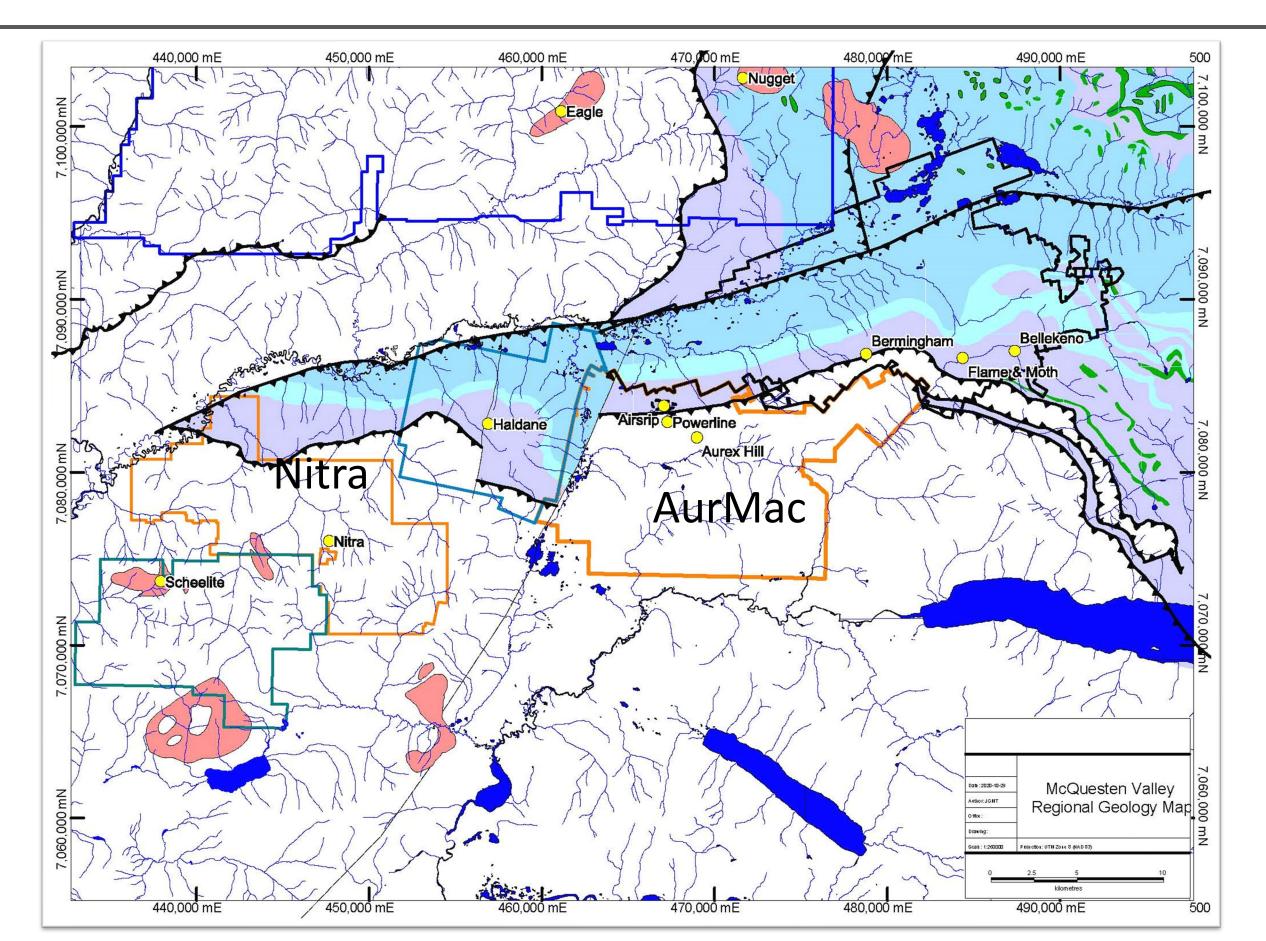
# **ADJACENT MINES AND EXPLORERS**





# **REGIONAL GEOLOGY**





### **CONTROLS ON MINERALIZATION**



## Intrusion-Hosted

- Structurally Controlled
- Eagle Mine, Scheelite
   Dome

### **Sediment-Hosted**

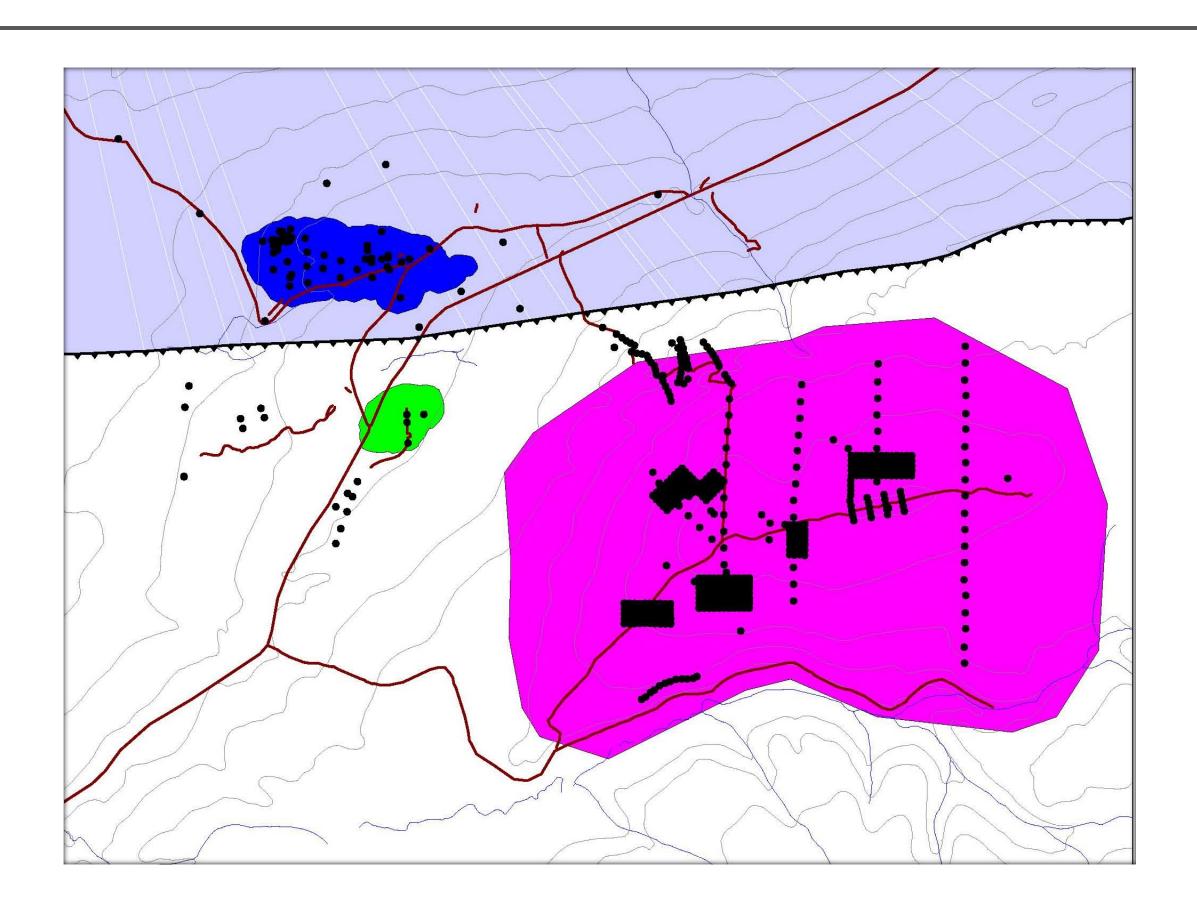
- Structurally Controlled
- Scheelite Dome, Mt.
   Haldane,
   Bermingham, Flame &
   Moth, Bellekeno,
   Keno Silver Project,
   Mt. Haldane, Carlin Roop, Scheelite Dome

### **Sediment-Hosted**

- StratigraphicallyControlled
- Aur-Mac, ScheeliteDome

# **AURMAC DRILLING COMPILATION BY ZONE**





#### McQuesten

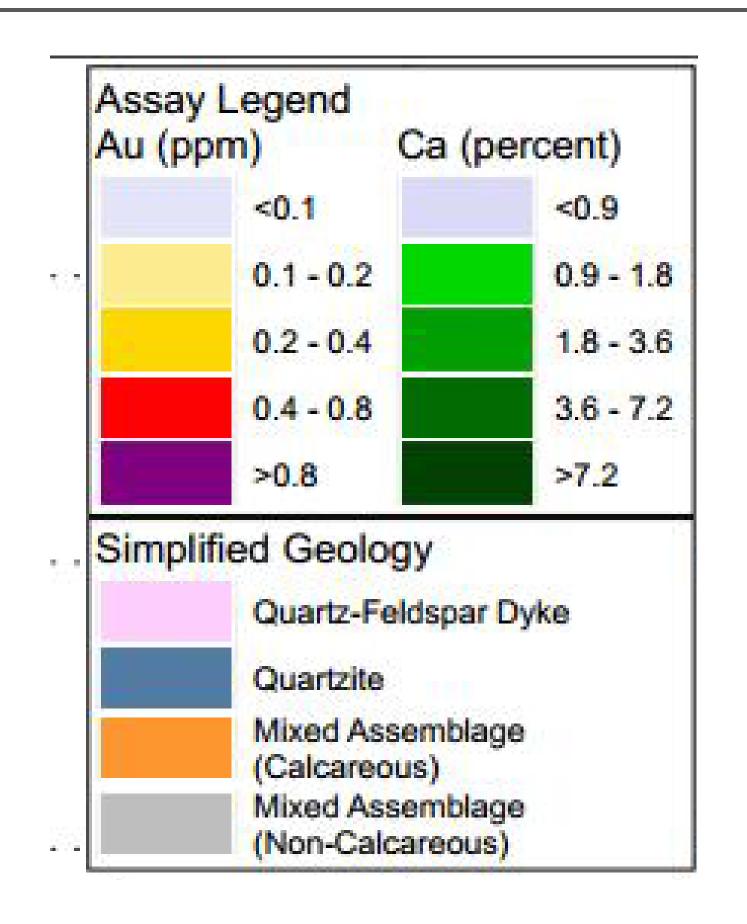
- 7,690 m of diamond drilling in 53 holes
- 271 m of reverse circulation in 10 holes
- Au mineralization in pyrrhotiteretrograde skarn-like lenses, quartz-arsenopyrite-pyrite veins, and fault breccias

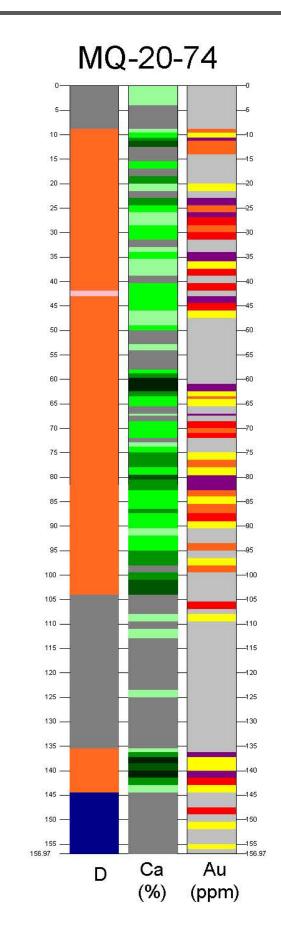
#### Aurex

- 12,530 m of rotary percussion drilling in 442 shallow holes
- 4,644 m of diamond drilling in 30 holes
- Au mineralization in pyrrhotiteskarn lenses, quartz-arsenopyritepyrite veins.

# CHEMO-STRATIGRAPHIC MODELLING: THE KEY TO UNLOCKING AURMAC'S VALUE POTENTIAL



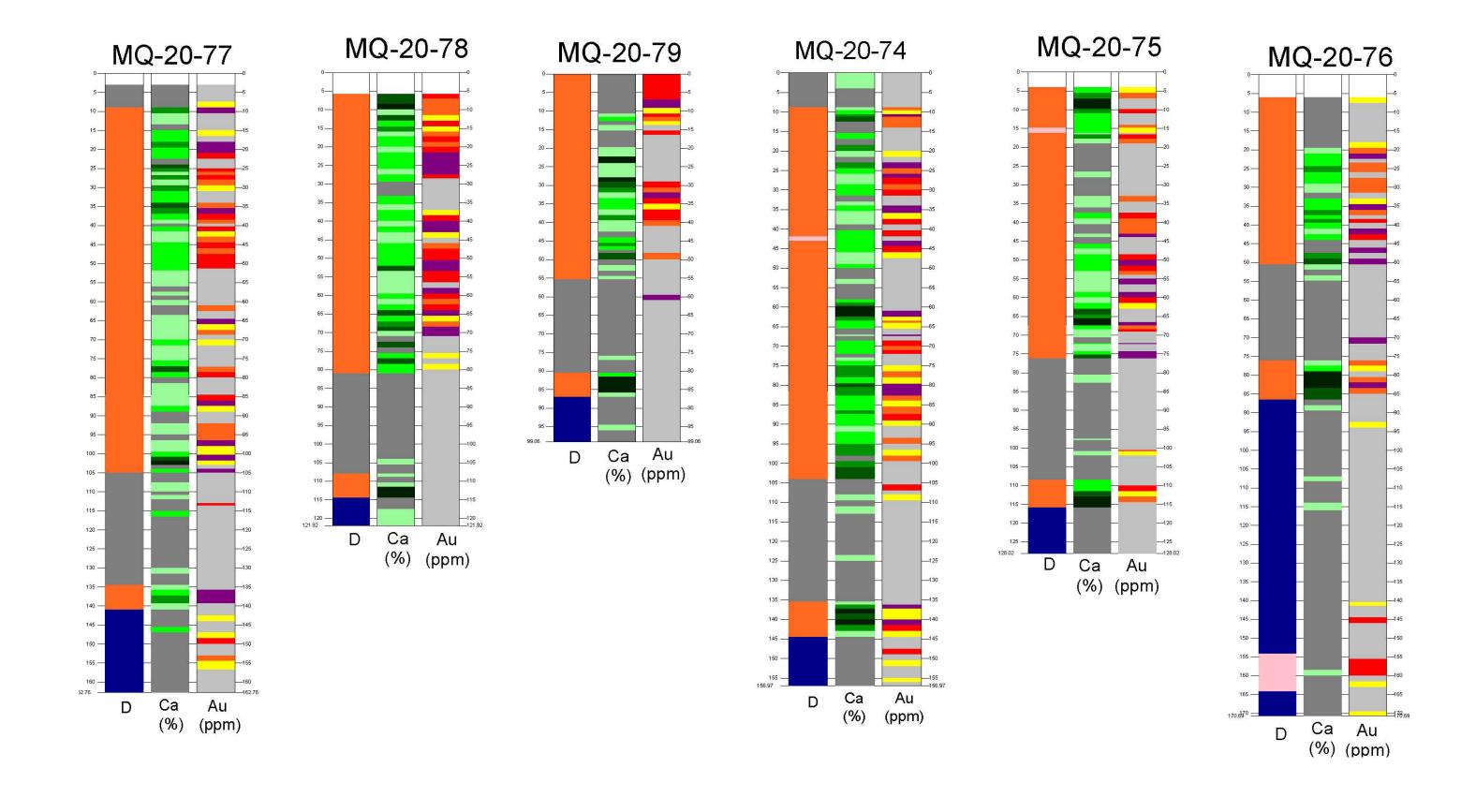




\* With an aqua-regia digestion we are not dissolving calc-silicate minerals and the dominate source of calcium will be from the calcium carbonate making the calcium a proxy for the calcareous content of host rocks

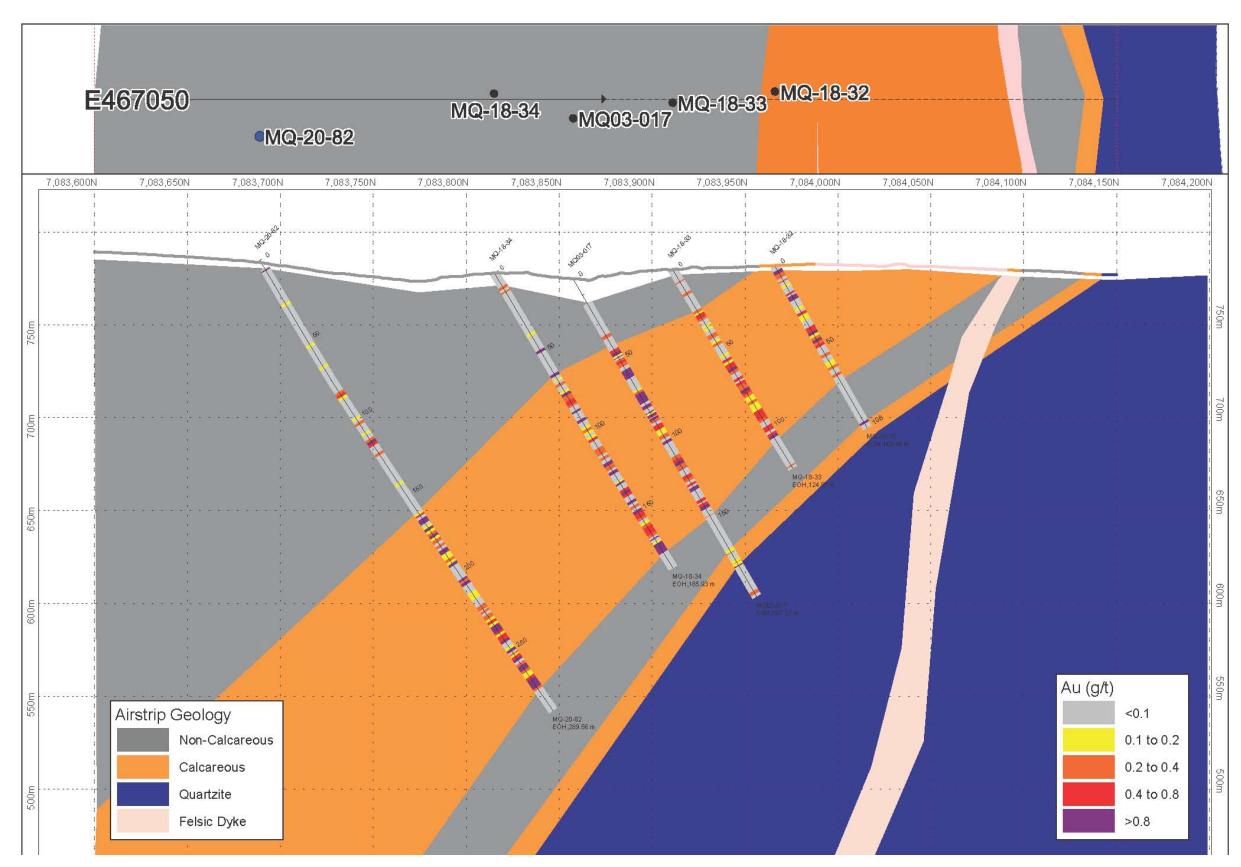
# CHEMO-STRATIGRAPHIC MODELLING: HOLE BY HOLE COMPARISONS

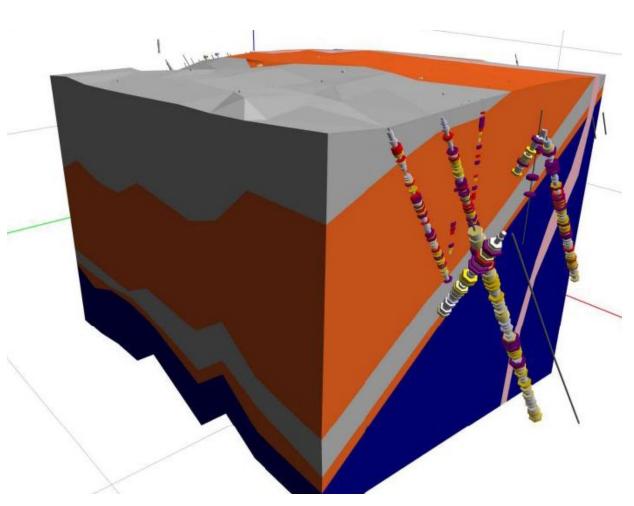




# BUILDING GEOLOGIC DOMAINS FROM GEOCHEMICAL DATA SECTION BY SECTION – THE PATHWAY TO DISCOVERY



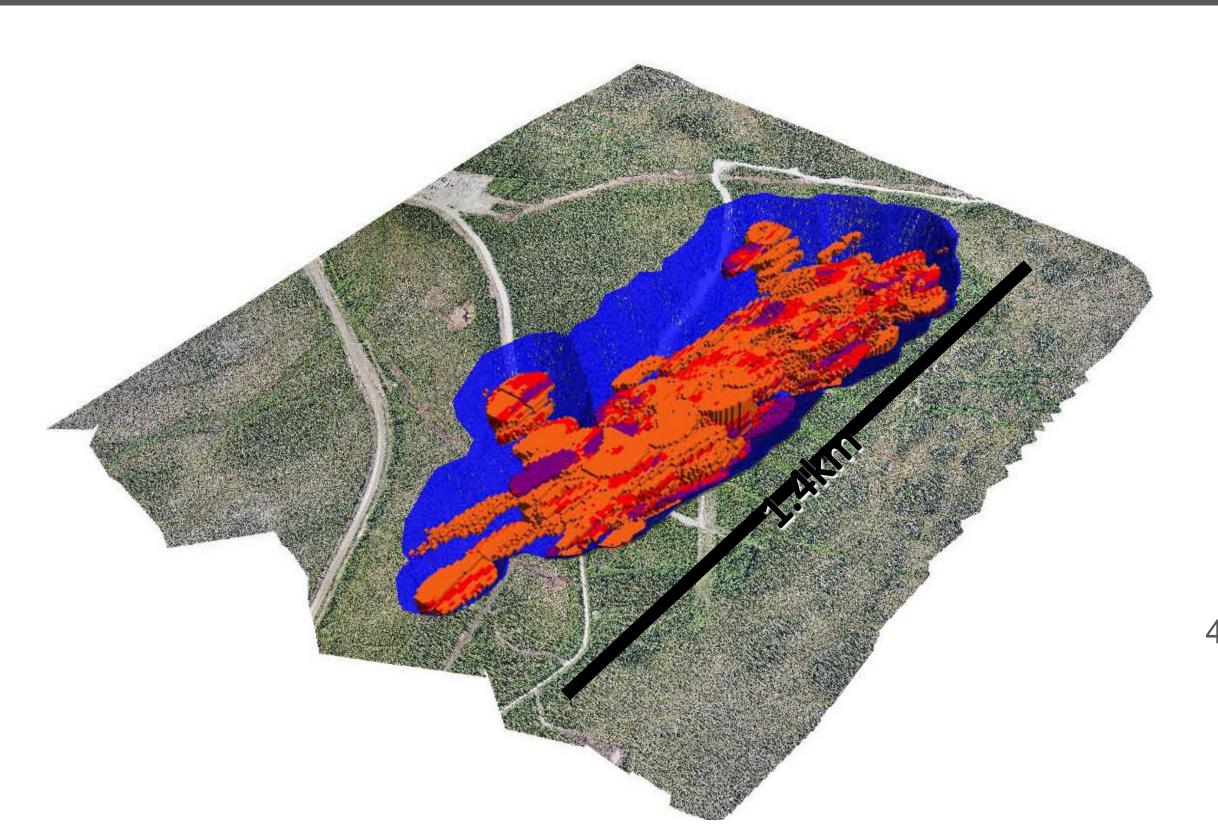




# **AURMAC PROPERTY: THE AIRSTRIP ZONE'S INFERRED GOLD RESOURCE**



# Pit-Constrained Inferred Mineral Resources at a 0.2 g/t Au Cut-Off

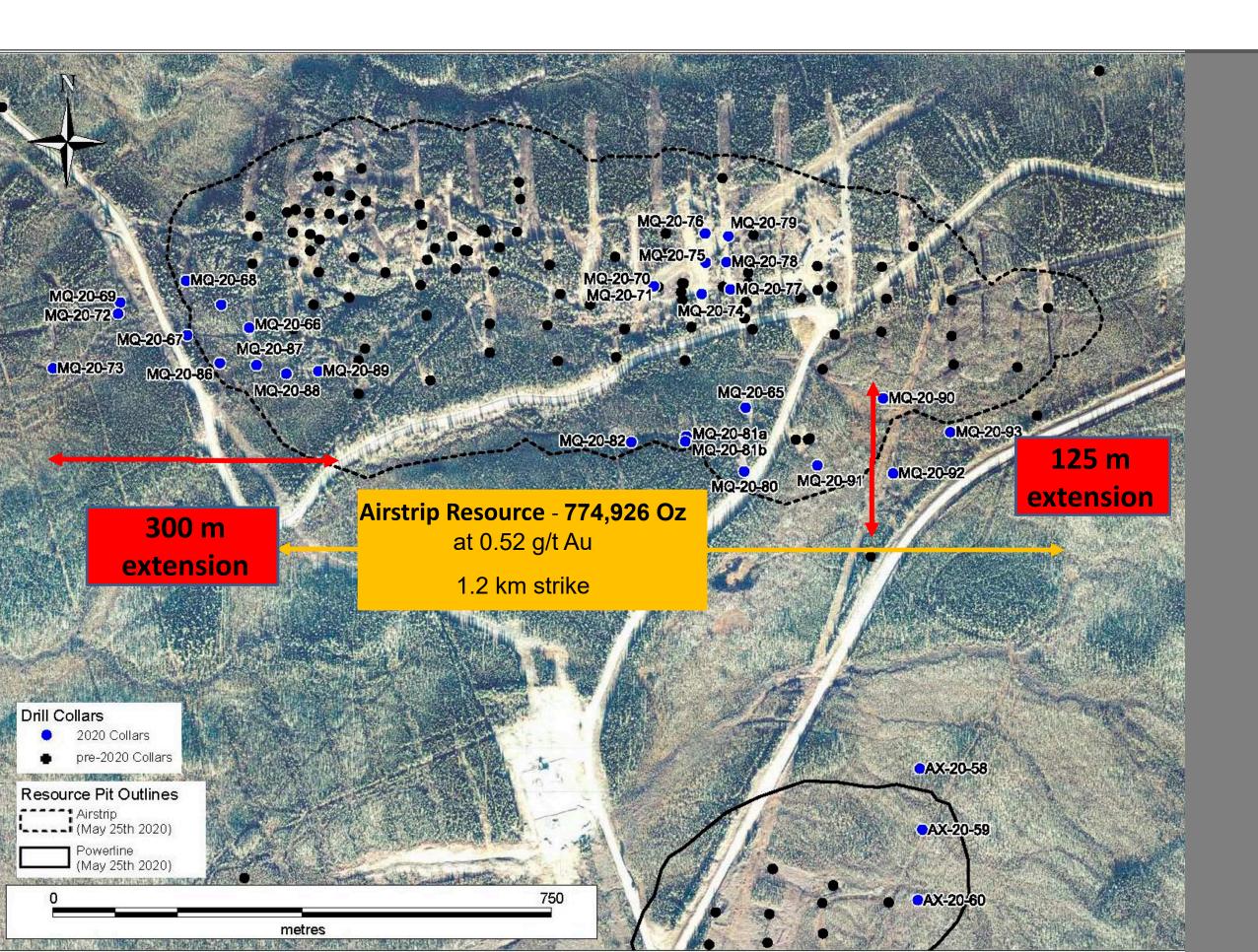


Tonnes (g/t) 45,997,911 0.524

Au Grade Contained (g/t) Au (oz.)
0.524 774,926

### **AURMAC PROJECT 2020 – AIRSTRIP EXTENSION**



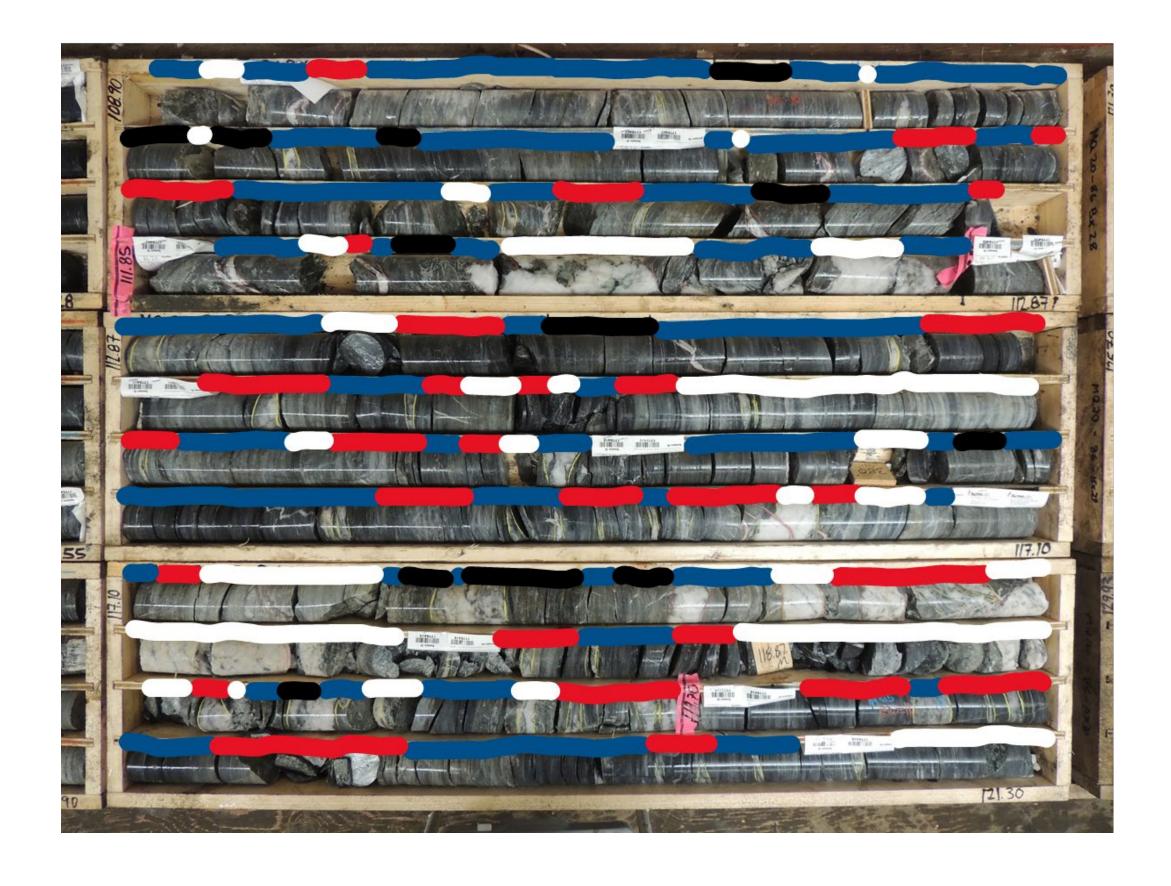


#### Highlights:

- 0.75 g/t Au over 116 m
- 0.74 g/t Au over 113 m
- 0.92 g/t Au over 63.5 m
- 0.89 g/t Au over 59.2 m
- 0.62 g/t Au over 59.8 m
- 8.33 g/t Au over 1.4 m
- 2.38 g/t Au over 10.6 m
- 4.82 g/t Au over 3.4 m
- 19.5 g/t Au over 0.7 m
- 8.64 /t Au over 1.5 m
- 18.4 g/t Au over 2.1 m
- 2.62 g/t Au over 6.0 m
- 27.7 g/t Au over 1.5 m
- Exploration Expenditures met for full100% earn-in on option

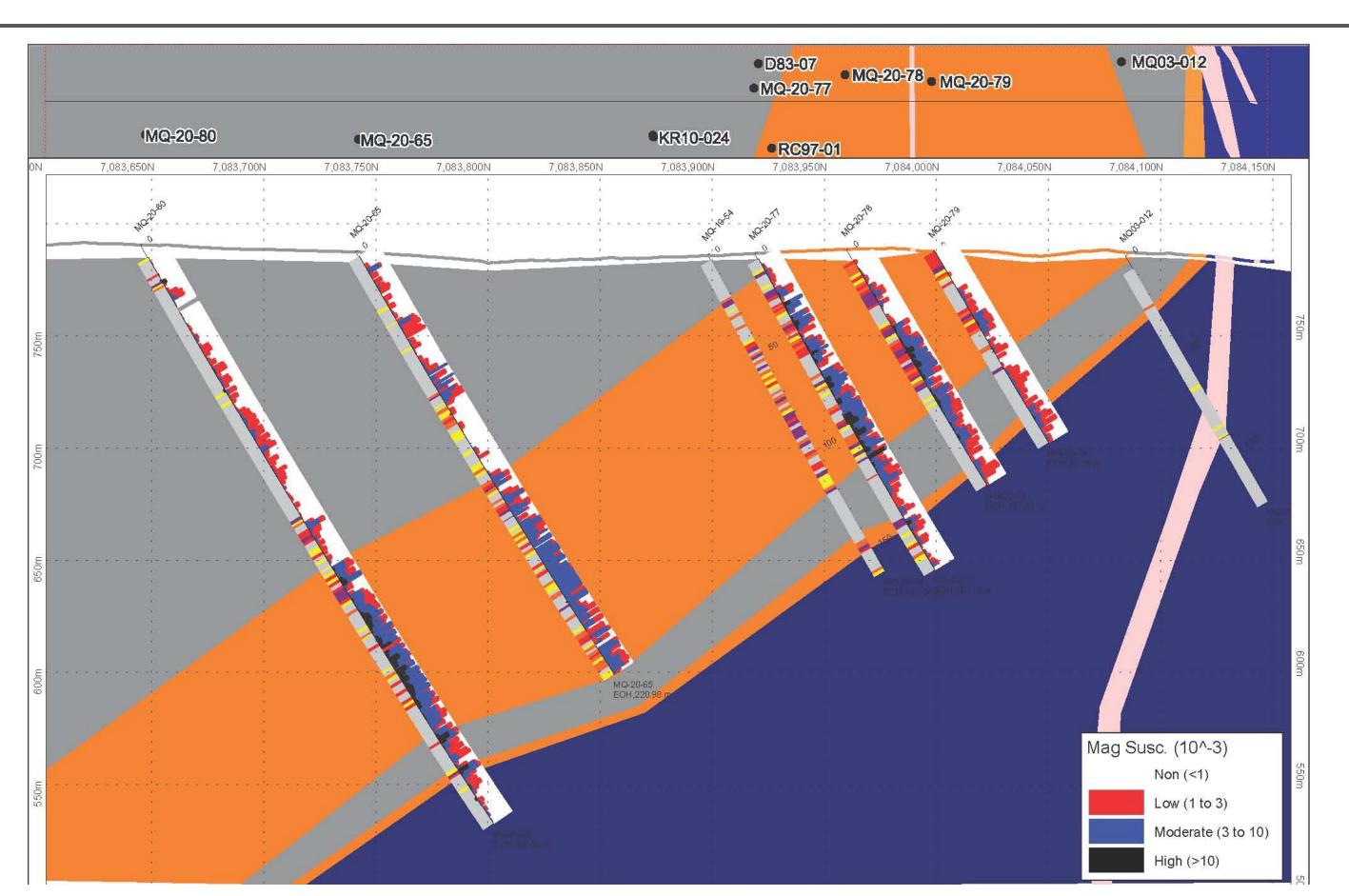
# BEYOND GEOCHEMISTRY – MAGNETIC SUSCEPTIBILITY: PYRRHOTITE A PROXY FOR GOLD MINERALIZATION





# MAGNETIC SUSCEPTIBILITY: CORRELATION WITH GOLD





### **AIRSTRIP CORE**





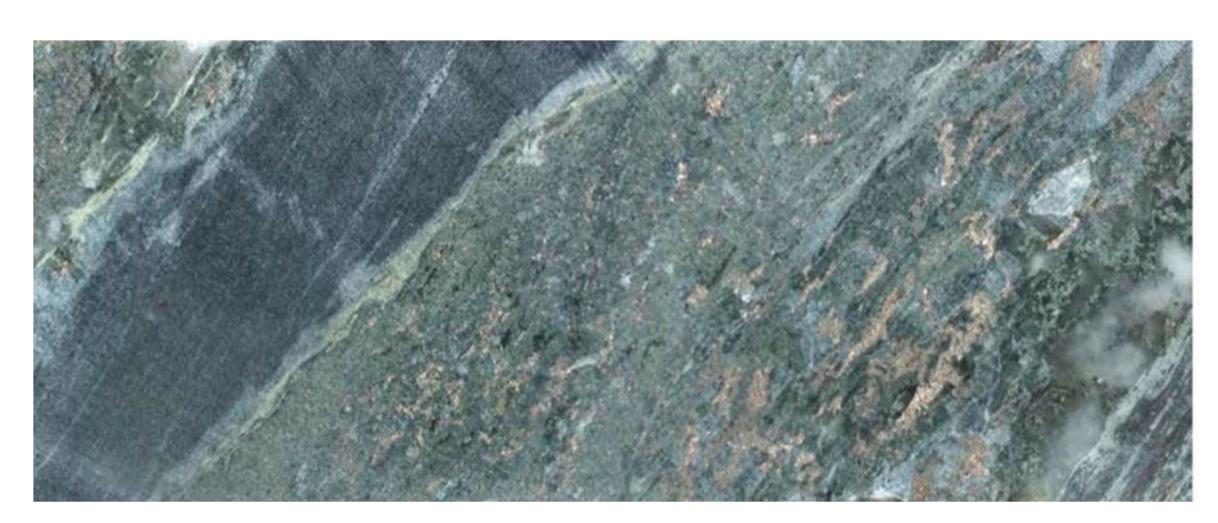
MQ-19-44: 3.07 g/t Au over 8.8m from 127.4m

# **Typical Calcareous Package**

- Upper Sourdough Formation above the basal quartzite (Keno Hill Host)
- Strong retrograde skarn alteration with semi-massive to massive pyrrhotite +scheelite+gold anomalous in bismuth+selenium+tellurium
- Reduced Intrusion related Au System

### **AURMAC STYLES OF MINERALIZATION**





Actinolite-Chlorite-Quartz (Retrograde Skam Aletration) carbonate replacement with disseminated pyrrhotite minor arsenopyrite and Chalcopyrite



Sheeted Quartz-Chlorite Veins with Pyrrhotite



Siderite-Sphalerite-Galen

### **AURMAC GOLD PROJECT – AIRSTRIP & POWERLINE**





2020 Resource: 903,945 Ounces Au, 0.535 g/t Au

Airstrip Powerline

**774,926 Oz**. at 0.52 g/t Au

**129,019 Oz.** Au at 0.61 g/t Au

Pit Constrained – near surface/on surface at a 0.2 g/t Au cutoff) (NI 43-101)

Reference July 7, 2020 Technical Report Marc Jutras, P.Eng, M.A.Sc., Ginto Consulting Inc. LG pit shell at Gold price \$1500 USD/oz.

# POWERLINE CORE: DISCORDANT QUARTZ VEINS POINT THE WAY

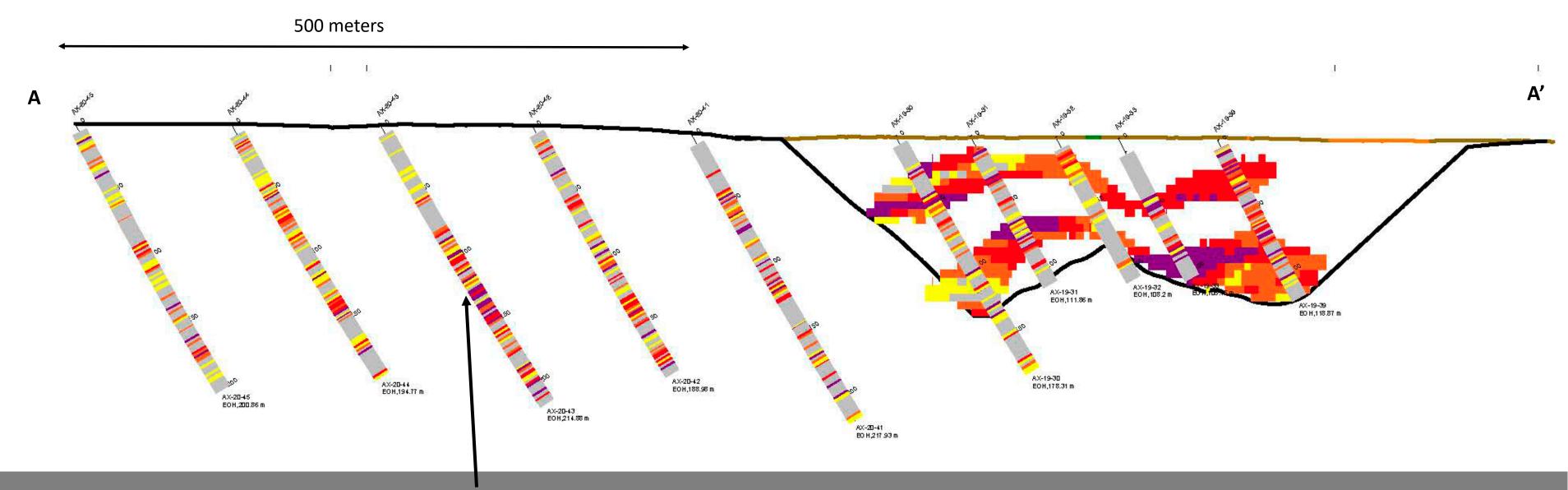




AX-19-30: 1.46 g/t Au over 7.4 m to 44.2 m

# **AURMAC PROJECT 2020 – POWERLINE ZONE**500M STRIKE EXTENSION CONSISTENT WITH MODEL



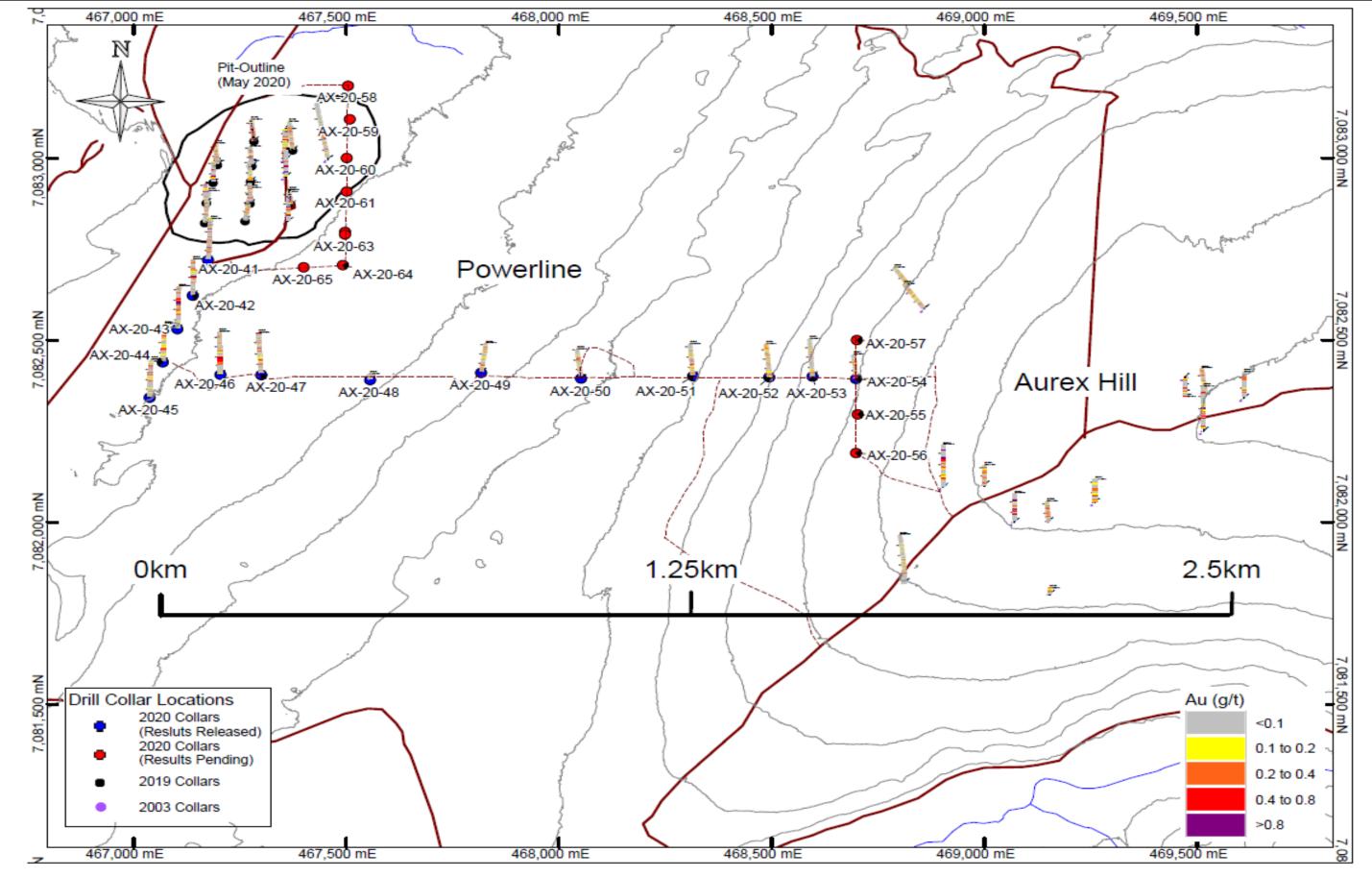


Highlight: 1.07 g/t Au over 68.5 m

"Part of a much larger gold system than Powerline Resource"
Powerline open in all directions and at depth

# 2.5 KM OF MINERALIZATION FROM POWERLINE TO AUREX HILL

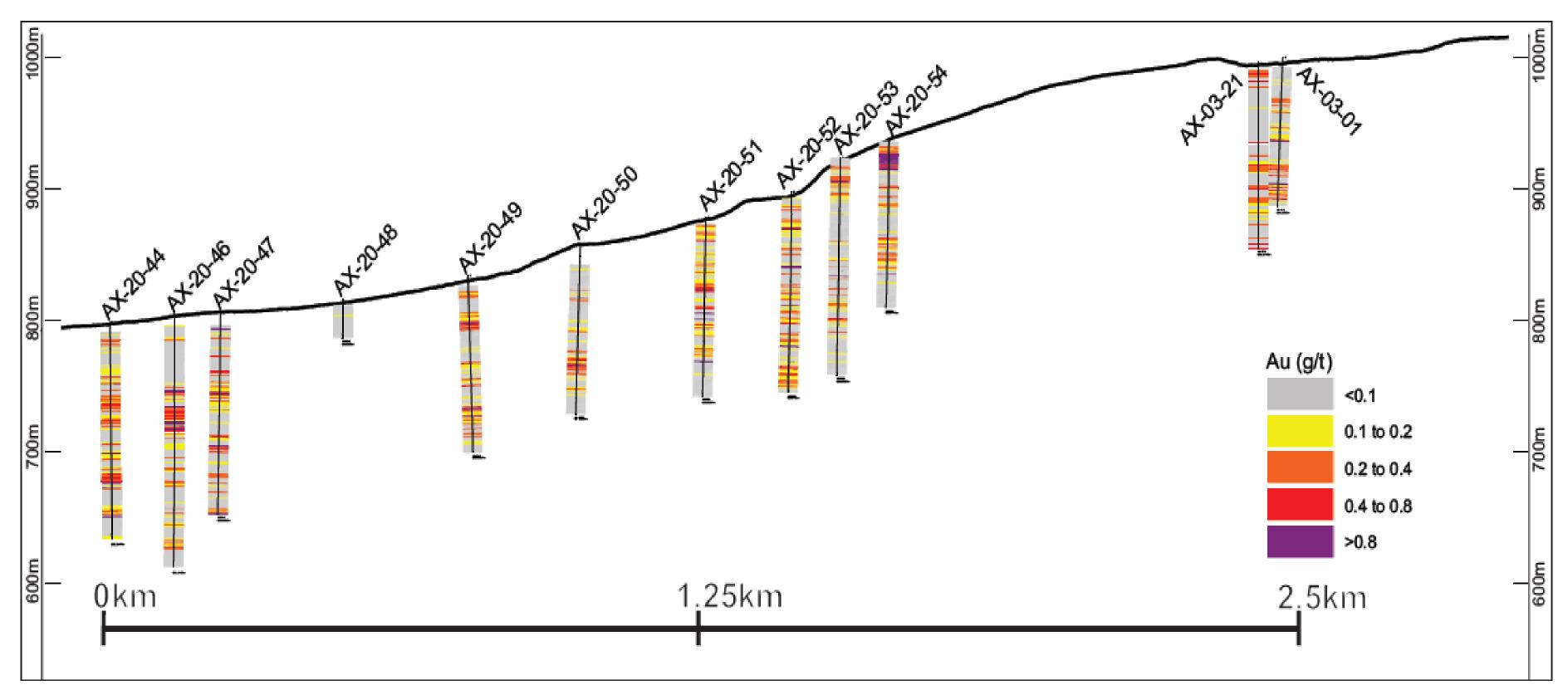




- Mineralization demonstrated over 2.5 KM from Powerline to Aurex Hill
- Dominant control on mineralization:
  - stratigraphic atPowerline
  - structural at AurexHill

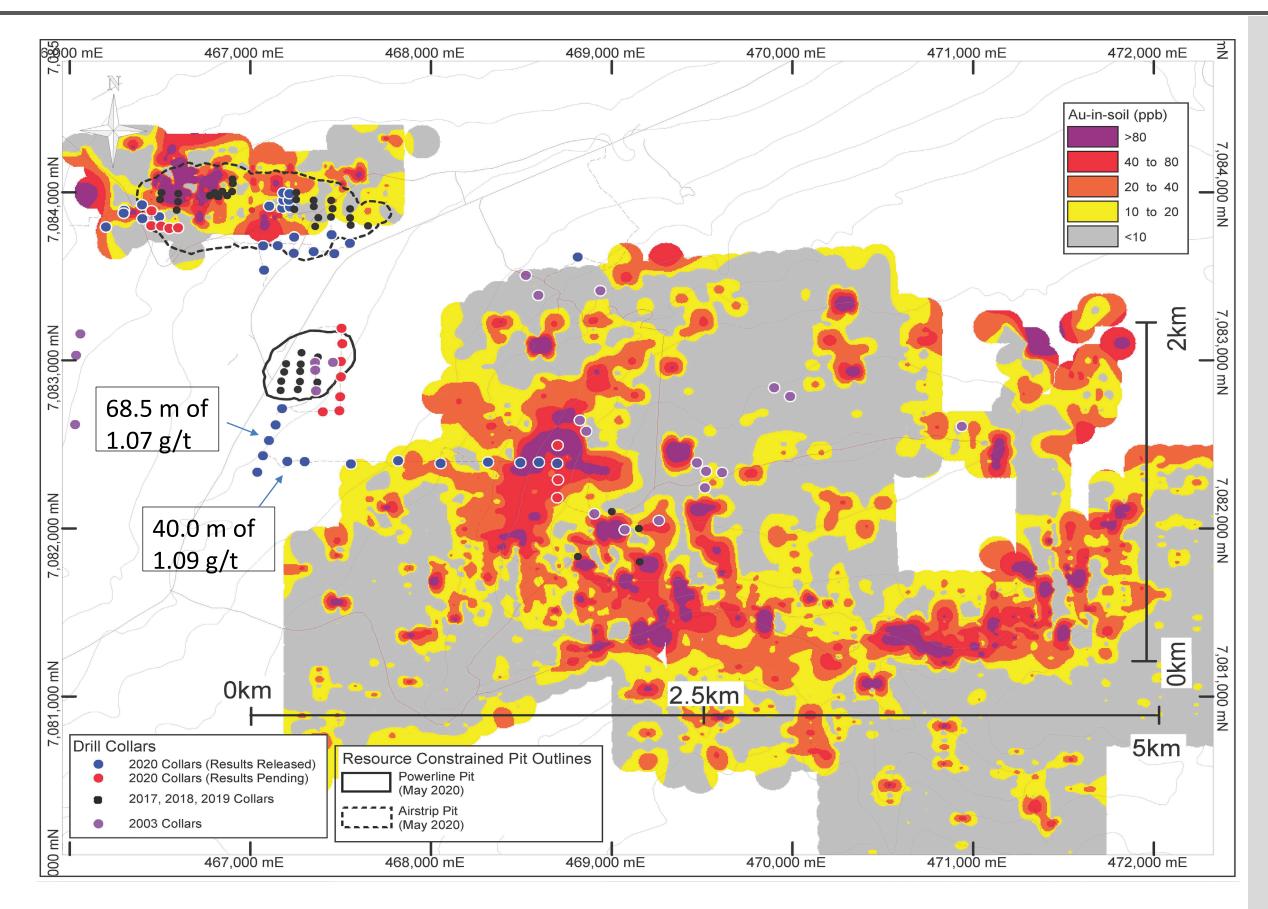
# 2.5 KM OF MINERALIZATION FROM POWERLINE TO AUREX HILL





# AIRSTRIP AND AUREX HILL - AU-IN-SOILS ANOMALIES

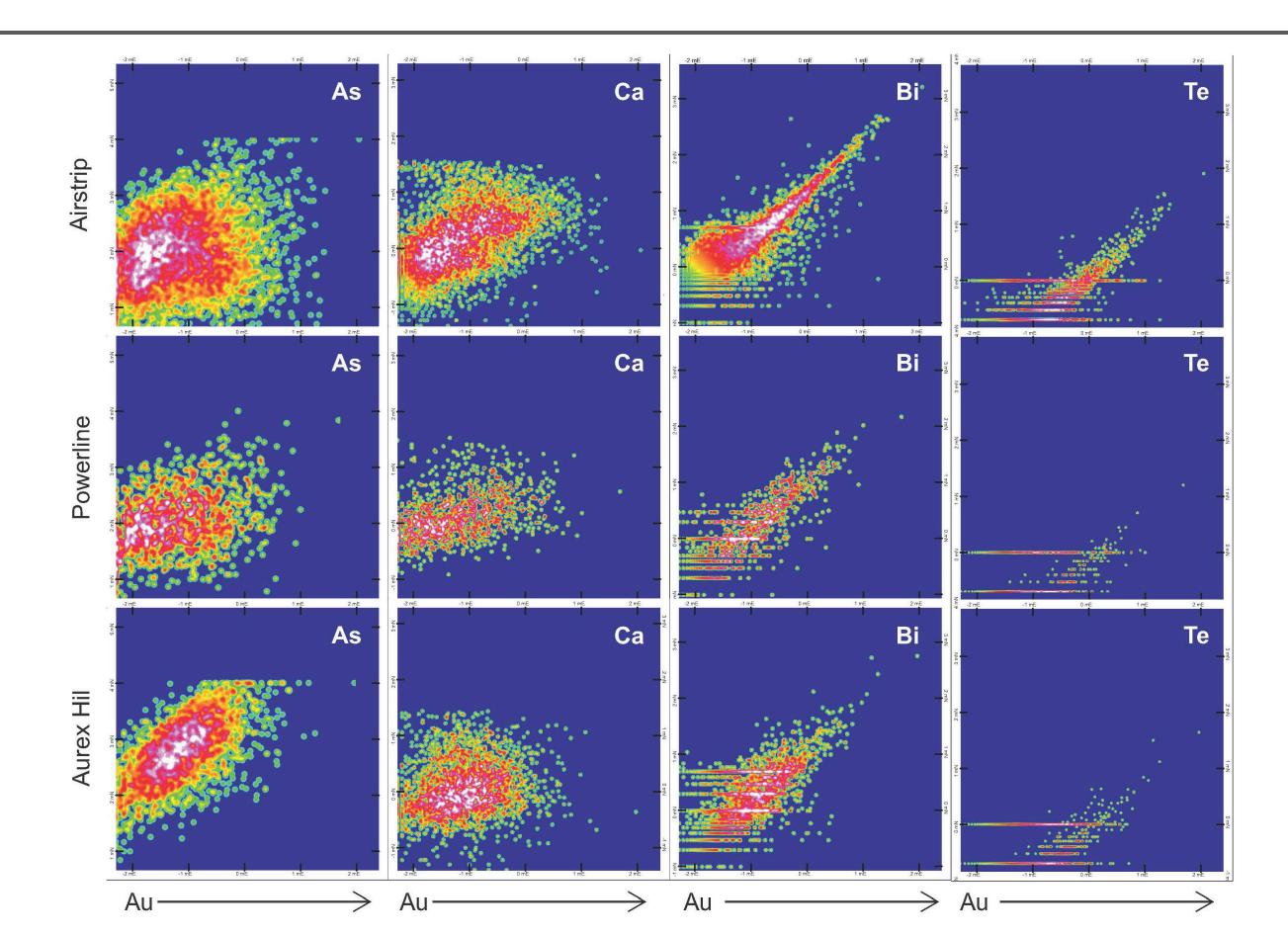




- Au-in-soils anomalies (10 km²)
- Au-in-Soil anomalies are caused by extensive discordant sheeted quartarsenopyrite veins and deep oxidation
- Area prospective for onsurface, bulk-tonnage gold mineralization

# STRUCTURAL AND SEDIMENT CONTROLLED GEOCHEM – DISTRICT MODEL



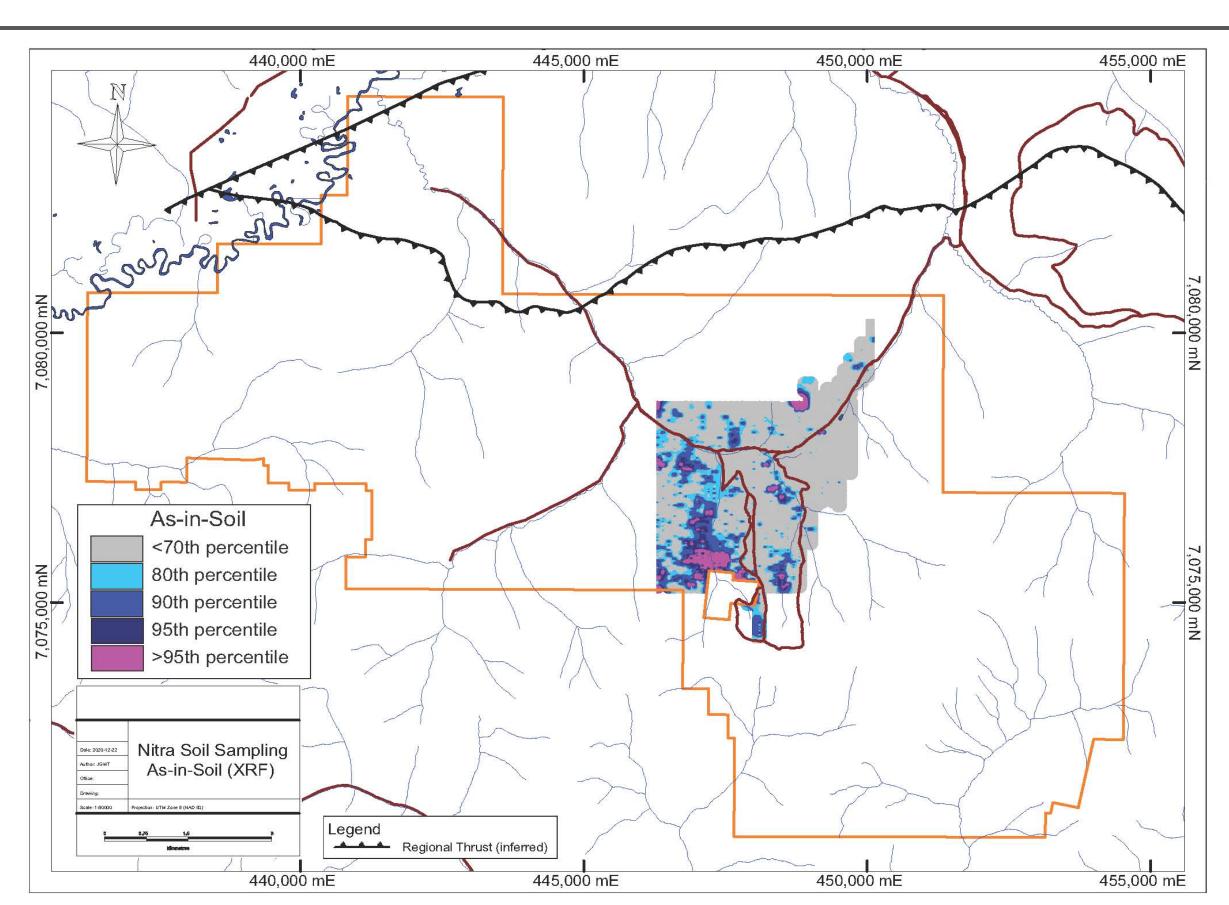


- All zones show strong
   Au-Bi-Te signature
- Stratigraphically controlled mineralization shows a Au-Ca Trend
- Structurally controlled mineralization shows a Au-As trend

### NITRA GOLD TARGET



- As-in-soil anomaly, coincident with similarly oriented Pb- and Zn-insoil anomalies.
- Dominant NNW mineralized trend
- Geological model applied to a new area in the district
- Aggressive soil sampling program ongoing in 2021



# TIMELINE OF AURMAC DISCOVERY



1962-76 6 seasons **DRILLING** 

**Discovery of the** Wayne Vein (Ag-Pb)

**TRENCHING** 

RC Drilling: >8100 m Hand & Bulldozer Trenching **Hand Mining** 

**Multiple Operators UKHM** 

CQUESTE

1981-84

**DRILLING MAPPING** 

**Discovery of Au-W** skarn in the Wayne Vein area

Drilling: 2462 m (25 DD) 6000 m (125 RAB) 3658 m RC

★33.3 g/t Au/1 m

Geol Mapping: Wayne 5 claim **Island Mining UKHM** 

**GEOPHYSICS MAPPING SAMPLING** 

> Mag, VLF-EM & **HLEM** survey 48 Rocks

1995

**Hemlo Gold** 

1997-98

DRILLING/TRENCHING **MAPPING/PETROGRAPHY GEOPHYSICS** 

**Discovery of West and East Zones** (extended area of the Wayne Vein)

Drilling: 300 m (7 DD) & 296 m (6 RC)

**\*\*** 3.74 g/t Au / 18.3 m

Trenching: 3740m (35 TR)

🔭 21.5 g/t Au / 2 m

IP & Mag: West and East Zones **Viceroy & Yukon Revenue Mines Multiple Operators** 

2000

**DRILLING TRENCHING SAMPLING GEOPHYSICS** 

Drilling: 883 m (5 DD) 60 Augers 1997-98 Trenches Re-sampling

Airborne EM-Mag

**Newmont Exploration Nova Gold** 

2003-06

3 seasons

**DRILLING SAMPLING** 43-101 REPORT **GEOPHYSICS** 

Drilling: 3100 m (18 DD) 

> 42 auger samples Airborne EM-Mag

**Spectrum Gold Alexco** 

2010-14

3 seasons

**DRILLING** LIDAR SURVEY

Drilling: 1275 m (5 DD) 270 m (11 RC) Alexco

**DD DRILLING TRENCHING** SOIL SAMPLING **GEOPHYSICS DATA** 

**Banyan Gold** Corp.

COMPILATION

**DRILLING** 49 OVB **UKHM** 

1992

**PETROGRAPHY** 

the Aurex Hill

50 Soils 10 Rocks

**Petrography** 

**Aurex Exploration** 

**SOIL SAMPLING** 

**Discovery of** 

1993-96

3 seasons

**DRILLING** 

Drilling: 12100 m (442 RC)

★6.67 g/t Au / 3 m 4 DD

**Yukon Revenue** Mines

1998-99

**SOIL SAMPLING GEOPHYSICS** 

**1421 Soils** 

★710 ppb Au

38 Rocks **IP Survey Expatriate** 

Resources

2000

**TRENCHING SAMPLING MAPPING GEOPHYSICS** 

Trenching: 290 m (6 TR)

139 Soils & 141 Rocks Airborne EM

**Discovery of Corkery Creek Geophys Anomaly** 

2003

**DRILLING SAMPLING** 43-101 REPORT

8.8 Drilling: 4000 m (26 DD)

★ 9 g/t Au/1.5 m

42 Soils IP and Resistivity Survey

**Strata Gold** 

2007-12

5 seasons

**DRILLING SAMPLING TRENCHING** 

Drilling: 775 m (5 DD) Trenching: 4 TR 831 Soils & 12 Silts

29 Rocks

**Strata Gold Mega Silver** Victoria

2016

SOIL **SAMPLING** 

> 761 Soils Rocks **Victoria**

SOIL **SAMPLING DATA COMPILATION** 

2017

**Banyan Gold** Corp

**Newmont Exploration** 

25

# TIMELINE OF HYLAND DISCOVERY



1954-55

**DD DRILLING MAPPING** SAMPLING

Drilling: 300 m (4 DD) Rock sampling Geol mapping Hand trenching **Liard River Mining** 

1982-86

**SOIL SAMPLING** 

**Discovery of** Main Zone (MZ)

3066 Soils, 50 Rocks

**▲ 1950 ppb Au** 

Geol Mapping Hand Trenching

**Kidd Creek Mines Silverquest Resources** 

**DRILLING/SOILS TRENCHING GEOPHYSICS** 

1988

Drilling: 375 m (4 DD)

Trenching-MZ: 4275 m (16 TR)

▲ 6.55 g/t Au/20 m 819 Soils, 50 Silts

Mag, EM and IP **Hyland Gold Joint** 

**Venture** 

1994

**SOIL SAMPLING GEOPHYSICS** 

1144 Soils

182 Silts, 164 Rocks Geological mapping

Airborne EM survey: 542 km line

> Westmin Resources Ltd.

**Hemlo Gold Mine** 

1996

**MAPPING SAMPLING** 

> 172 Soils 14 Rocks

**Geol Mapping** 

Westmin Resources Ltd. 2001-02

**SAMPLING SUMMARY** REPORT

170 Soils

27 Rocks **Data Compilation** 

**HGJV 2** 

2010-11

**DD DRILLING GEOPHYSICS** 

Drilling: 3961 m (20 DD)

1754 Soils:

**Extension fo Cuz Zone and Discovery** of Montrose Ridge

**TDEM Survey** Geological Mapping Petrography

**Argus Metals Corp.** 

2015-16

**DD DRILLING SAMPLING TRENCHING** 

**Drilling: 1283 m (6 DD)** 

885 Soils:

**Extension of Montrose Ridge Anomaly** 

> Trenching: 1578m (12TR) **Data Compilation**

**Banyan Gold Corp.** 

1973-75

**MAPPING** SAMPLING **DD DRILLING** 

Drilling: 416 m (4 DD) 319 Soils, 13 Silts 61 Rocks **Geol Mapping Hyland Gold** 

**Joint Venture** 

1987

**TRENCHING** SAMPLING

Trenching-MZ: 7125 m (22 TR)

**12.7** g/t Au/1 m

164 Soils

Petrography

**Hyland Gold Joint Venture** 

1990

**RC DRILLING** 

RC Drilling-MZ: 3656 m (41RC)

★1.1 g/t Au/97.8 m

**Hyland Gold Joint Venture**  1995

**DD DRILLING SOIL SAMPLING GEOPHYSICS** 

Drilling: 439 m (3 DD) 82 Soils

Geological Mapping Mag, Radiometrics Survey Over Property

**Westmin Resources Hemlo Gold Mine** 

1998-99

SOIL ROCK **SAMPLING** 

1168 Soils: Discovery of Cuz one

★ 1940 ppb Au 6 Rocks

**HGJV 2** 

2003-05

**DD DRILLING GEOPHYSICS** 

Drilling: 5199 m (24 DD) **1.38 g/t Au/53.11 m** 

> IP, Resistivity, Mag over the MZ

**Strata Gold Corp.** 

2012-14

**43-101 REPORT SOIL SAMPLING** 

43-101 Report on

**Resource Estimate** on the Main Zone

832 Soils, 39 Rocks

**Banyan Coast** Capital Corp. Banyan Gold Corp. **DD DRILLING TRENCHING** SAMPLING

> Drilling Trenching

> > Soils

**Geol Mapping** 

Data Compilation

Structural DEM Analyses

**Banyan Gold** Corp.

# **SUMMARY AURMAC SUCCESS**



- 1 Compile ALL the Data
  - 2 New perspective Why?
  - 3 Build a geologic model: in this case Geochem
  - 4 Drill test the model
  - 5 Gather all info Mag Sus in this case
- 6 Build on success apply model new areas



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**BUILDING GOLD RESOURCE TO FILL THE UPCOMING DEMAND**