



# MAGMA METALS LIMITED

## **Thunder Bay North Platinum – Palladium Project, Ontario, Canada**

Image courtesy of Johnson Matthey Platinum Today

# Disclaimer & Competent Persons Statement



## Disclaimer

This presentation is provided to you for the sole purpose of providing preliminary background technical, financial and other information to enable you to review the business activities of Magma Metals Limited (“Magma”). The material provided to you does not constitute an invitation, solicitation, recommendation or an offer to purchase or subscribe for securities. The information in this presentation will be subject to completion, verification and amendment and should not be relied upon as a complete and accurate representation of any matters that a potential investor should consider in evaluating Magma. This presentation may contain “forward looking statements” which are made in good faith and are believed to have reasonable basis. However, such forward looking statements are subject to risks, uncertainties and other factors which could cause the actual results to differ materially from future results expressed, projected or implied by forward looking statements.

## Competent Persons Statement

The information in this presentation that relates to Exploration Results or Mineral Resources is based on information compiled by Dr Keith Watkins and/or Mr Ralph Porter, the Managing Director and Exploration Director of Magma Metals Limited, respectively, who are both Members of the Australasian Institute of Mining and Metallurgy. Both Dr Watkins and Mr Porter have sufficient experience, which is relevant to the style of mineralization and type of deposit under consideration and to the activities undertaken to qualify as Competent Persons as defined in the 2004 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Dr Watkins and Mr Porter consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

# Presentation Outline



## 1. Company Background

## 2. Thunder Bay North Pt-Pd-Cu-Ni Project

- Location & Discovery
- Exploration & Resource Drilling
- Geology & Mineralization
- Potential for Further Discoveries
- Program to March Quarter 2010
- Mining Concepts

## 3. Investment Opportunity

# Market Fundamentals



• ASX Listed (Code MMB):	June 2006
• Shares Issued:	163m
• Unlisted Options:	23m
• Undiluted Market Capitalization @60c:	A\$98m
• Cash (end of June Quarter):	A\$17m

- Top 40 shareholders own ~75% of the shares
- Major Shareholders (>5%):
  - Anglo American: 12%
  - Directors: 8%
  - Carbon Energy Limited: 6%
  - AMP: 5%
  - Anglo Pacific: 5%
  - Institutional Investors: ~35%



# Directors & Management

## **Dr Keith Watkins – Managing Director & CEO**

**Geologist:** 30 years global experience in exploration and mine/business development. Former Head of Exploration with Goldfields and Sons of Gwalia.

## **Ralph Porter – Executive Director - Exploration, Australia**

**Geologist:** 30 years global experience in exploration and development, including several senior management positions.

## **Max Cozijn – Executive Director - Corporate**

**Accountant:** extensive experience in junior mining and exploration sector. Chairman of Oilex & Malagasy Minerals and Director of Carbon Energy.

## **Terry Burgess – Non-Executive Director**

**Metallurgist:** former CEO of Delta Gold & Aurion Gold, Global Head Metals & Mining ABN AMRO & Head of Business Development (Base Metals) Anglo American. CEO of Oz Minerals.

## **Graeme Scott – CFO & Company Secretary**

**Accountant:** extensive experience in the UK and Australia; former Group Accountant and Company Secretary with Carbon Energy.

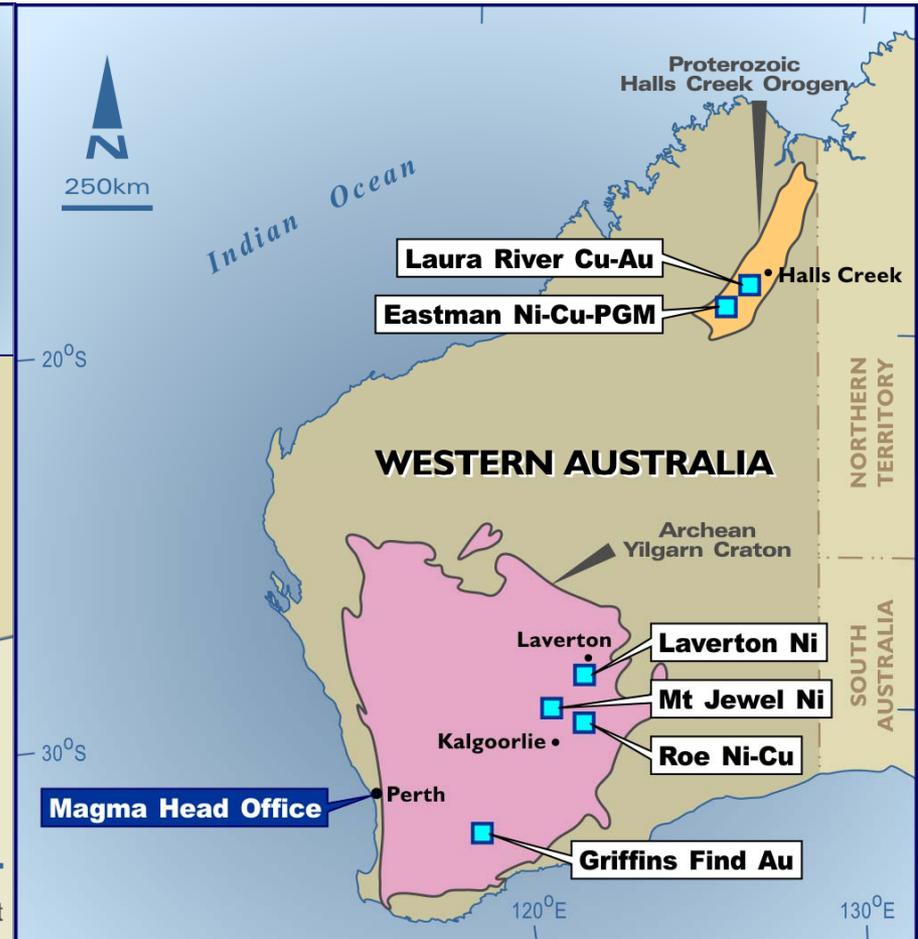
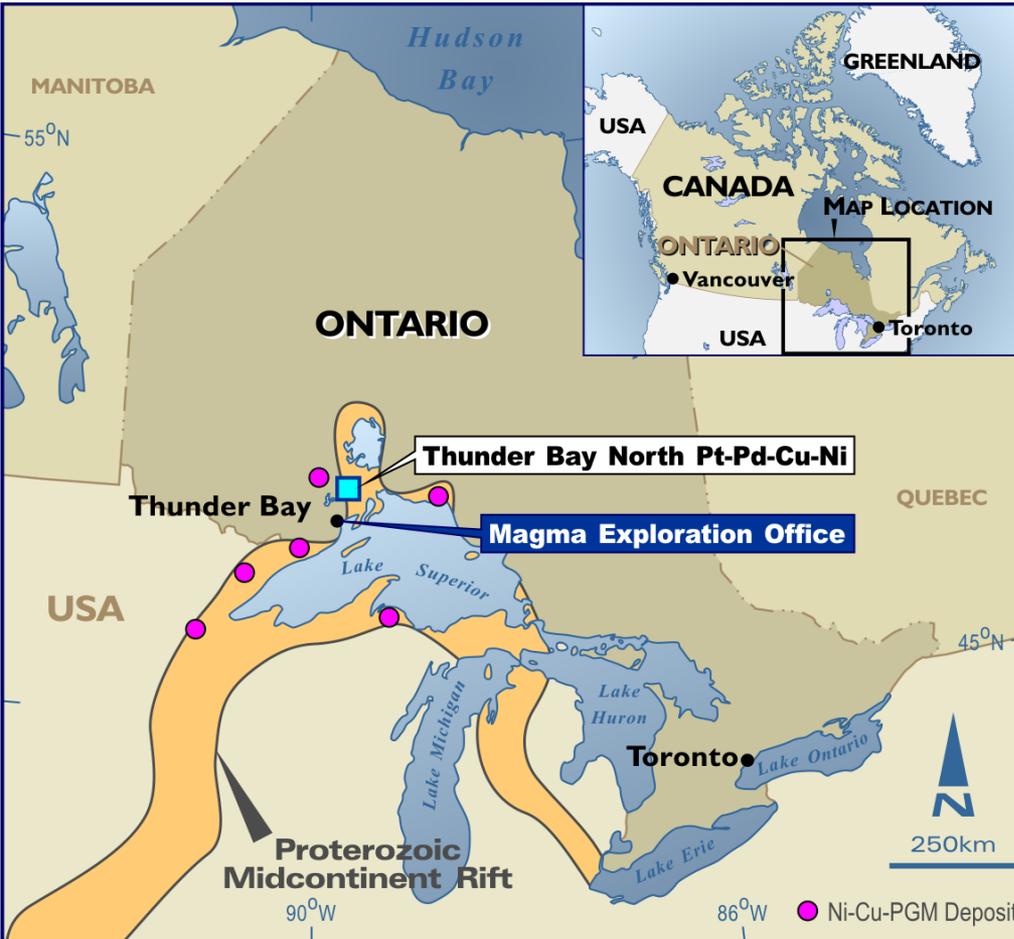
## **Allan MacTavish – Exploration Manager, Canada**

**Geologist:** 30 years exploration experience in Canada. Ontario Ni-Cu-PGM specialist.



# Commodity Focus & Project Locations

## Precious & Base Metals – Canada & Australia

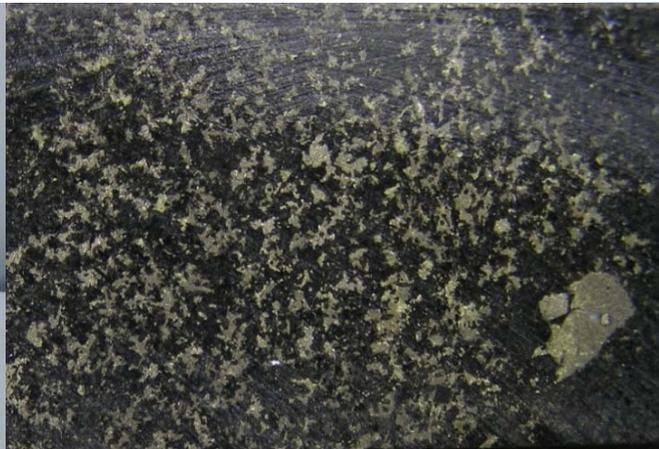




# Thunder Bay North PGM Project

## Advanced Exploration Project Magma Conduit Hosted Pt-Pd-Cu-Ni

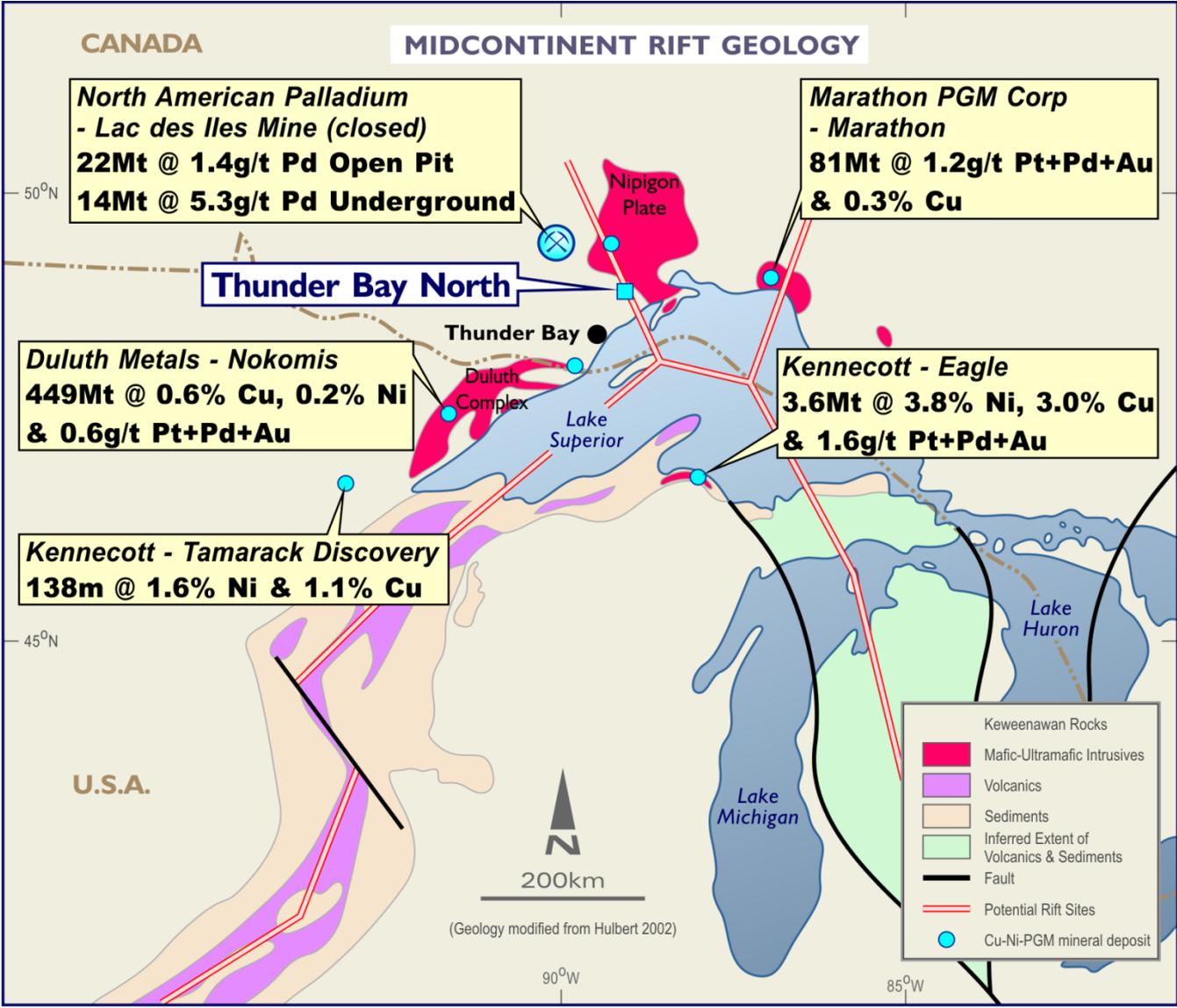
- Excellent widths and grades in drilling:  
e.g. 63.8m @ 5.66g/t Pt+Pd, 0.7% Cu & 0.3% Ni
- 1:1 Pt:Pd ratio
- Significant Cu & Ni credits with potential for Cu-Ni massive sulphide deposits
- Potential for large mineralized system
- Close to excellent infrastructure



# Regional Setting

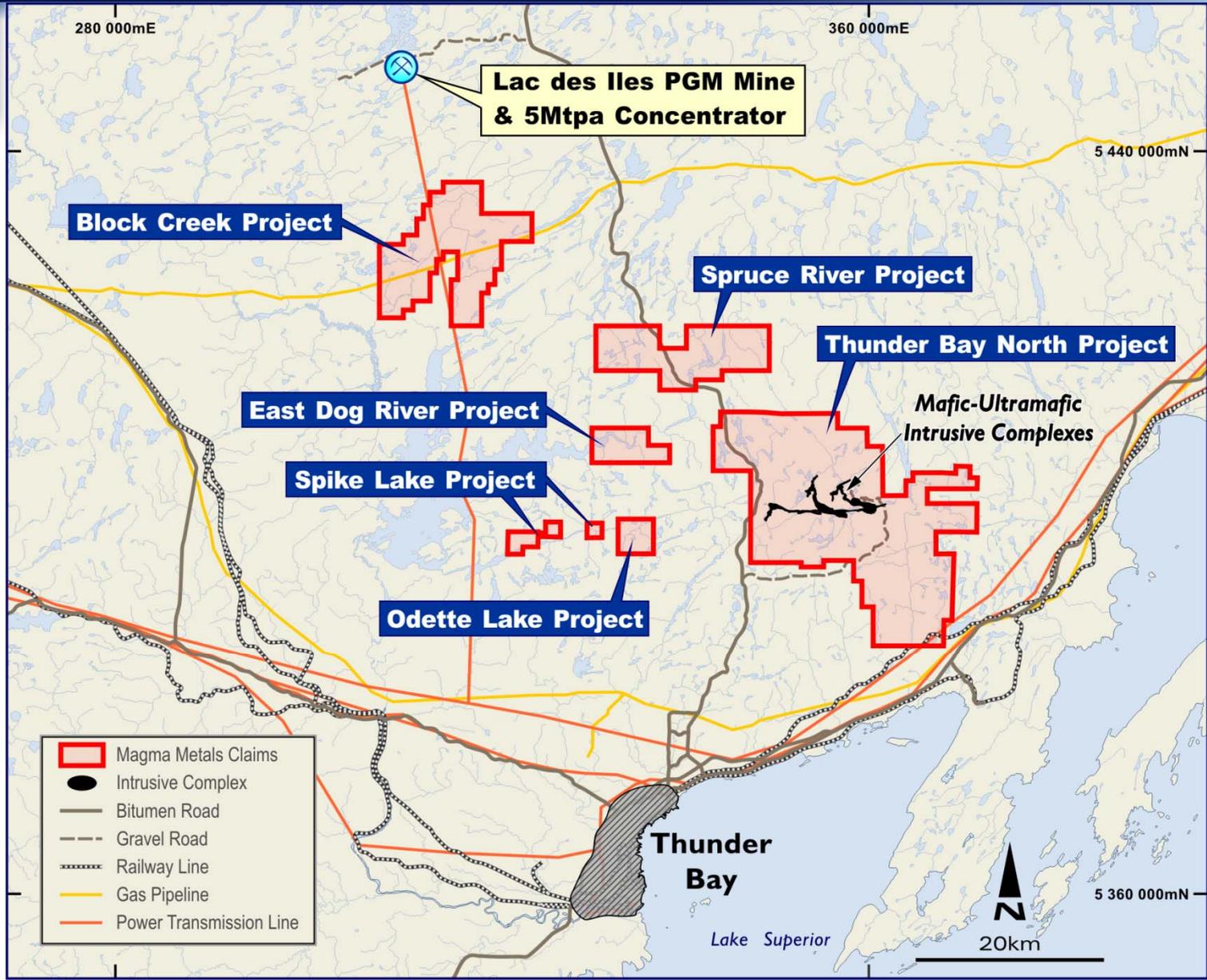


- Emerging Ni-Cu-PGM Province
- Significant recent discoveries
- The right geology for Ni-Cu-PGM: analogous to the giant Noril'sk - Talnakh deposits in Russia
- Region is under-explored with potential for further large discoveries





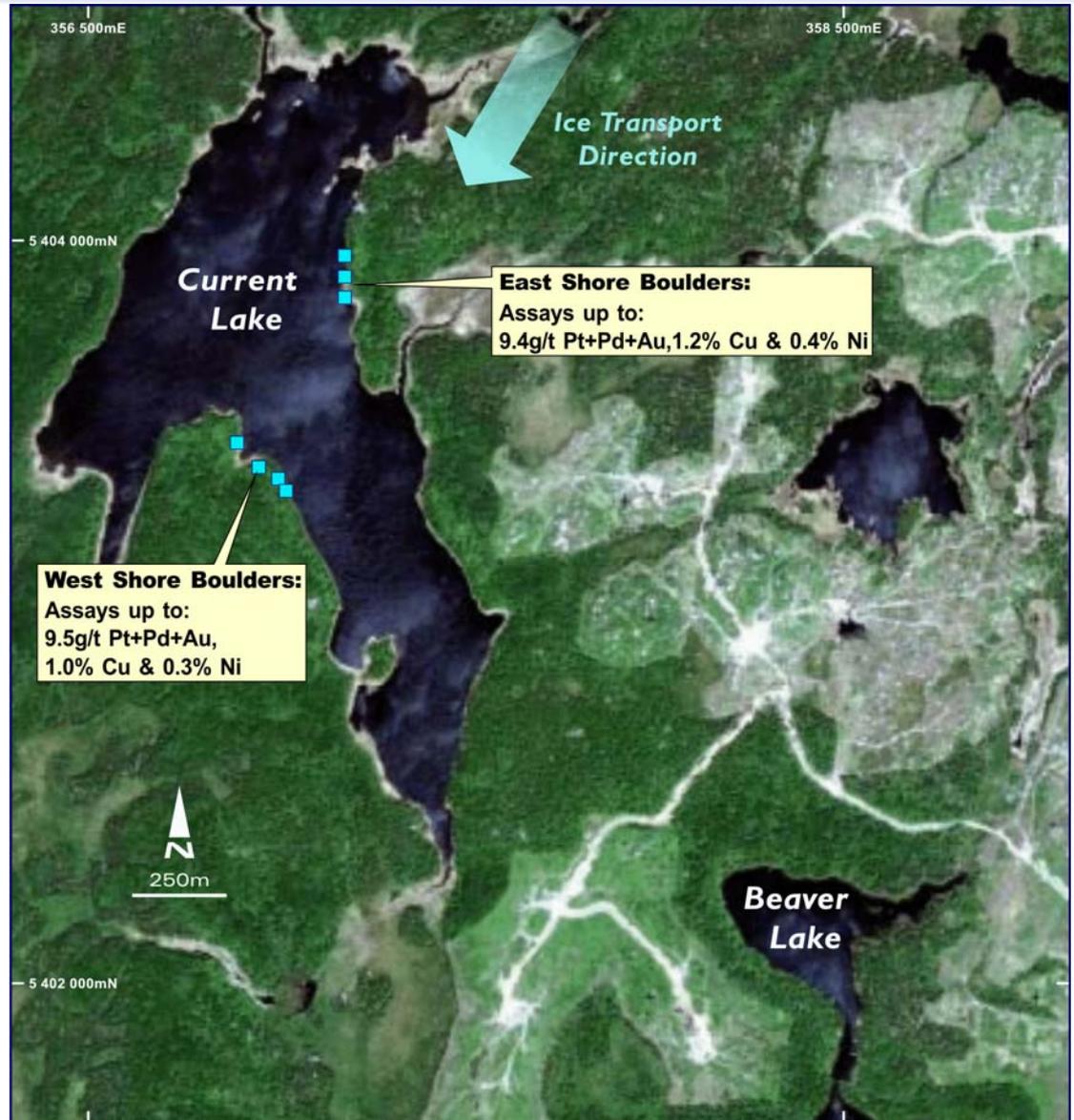
# Thunder Bay Projects



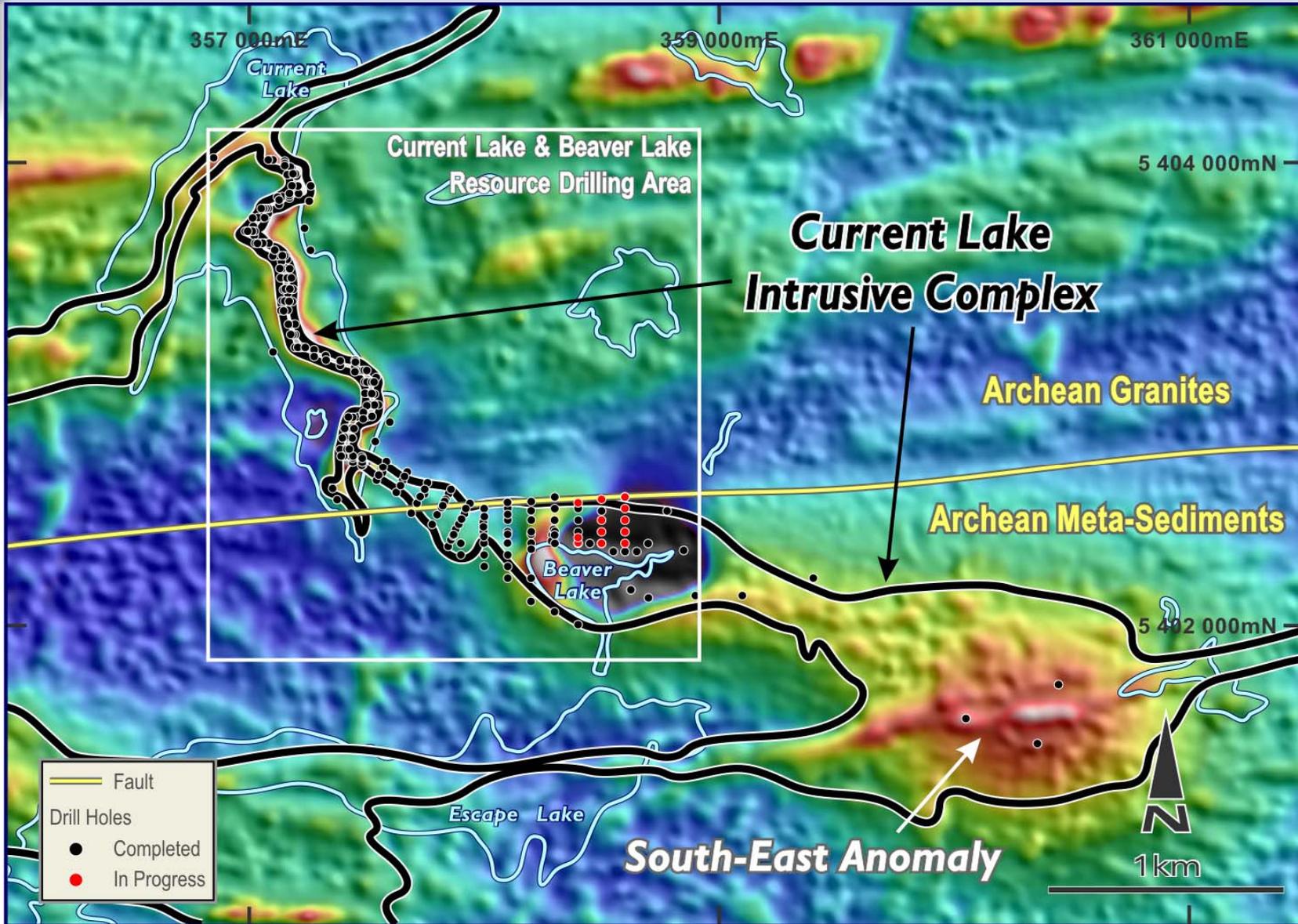
# Discovery History



- PGM-rich glacial boulders found on west shore of Current Lake in 2001
- Magma optioned the claims in 2005 and staked larger area
- East shore boulder outcrop found in mid-2006
- Discovery hole drilled under east shore boulders in December 2006:  
10.5m @ 2.8g/t Pt+Pd+Au



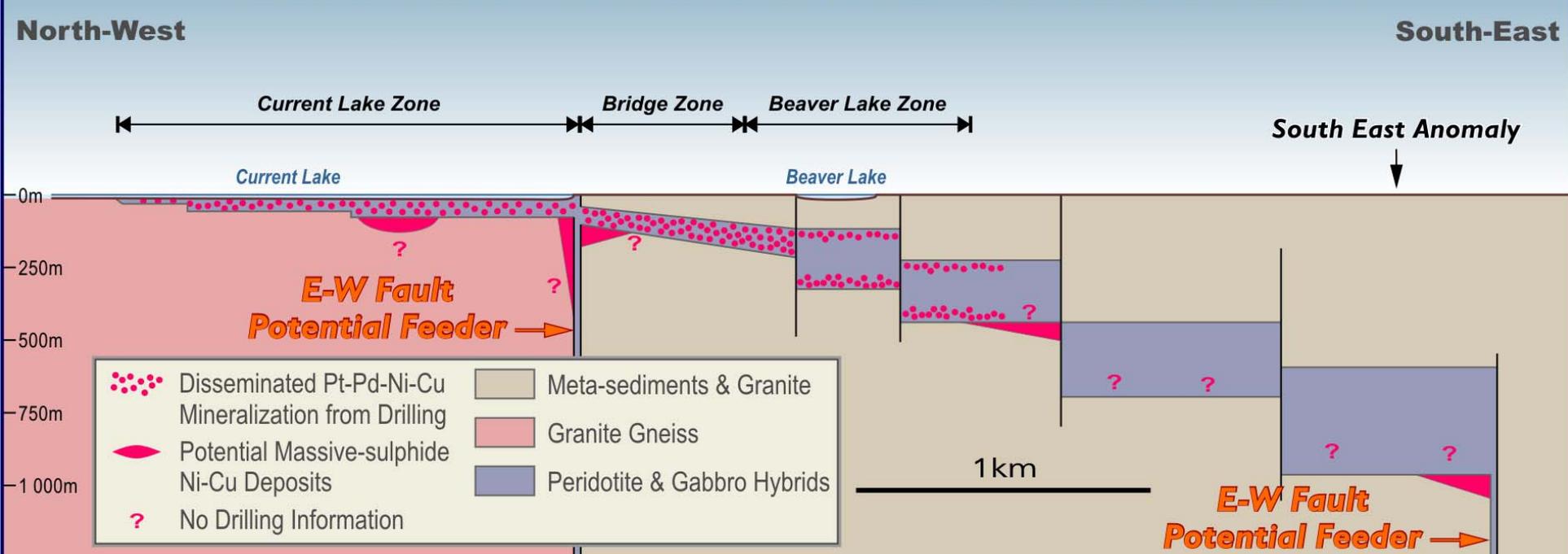
# Current Lake Intrusive Complex



# Magma-Conduit Exploration Model



## CURRENT LAKE INTRUSIVE COMPLEX - SCHEMATIC MODEL

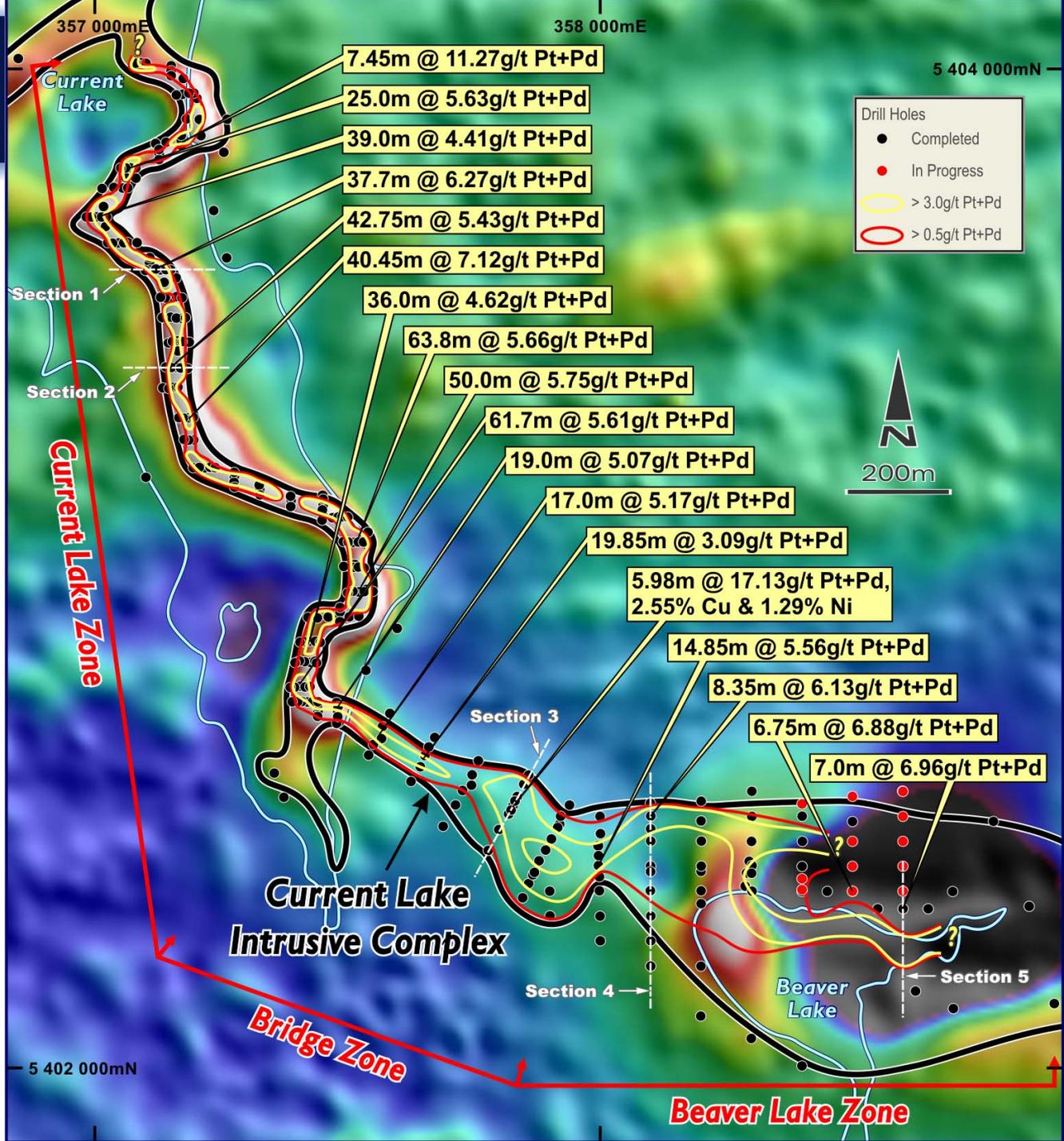


- Geological environment highly favourable for large disseminated and massive sulphide Ni-Cu-PGM deposits
- Analogies include the giant Noril'sk-Talnakh Ni-Cu-Pt-Pd deposits in Russia



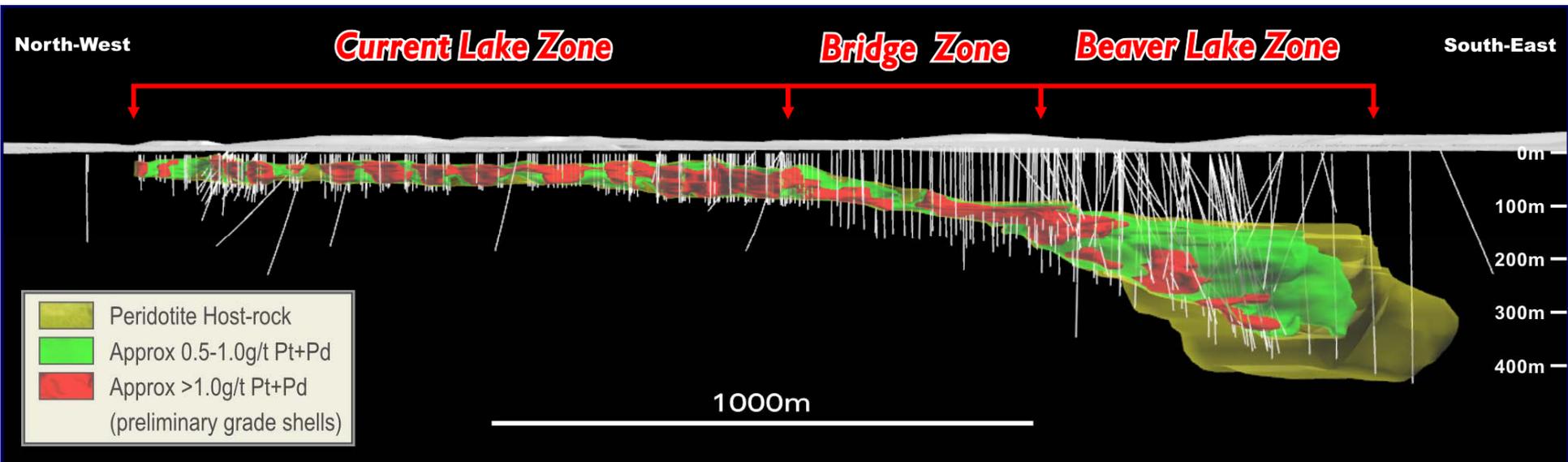
# Resource Drilling

- Over 50,000m of diamond drilling
- 3.4km long tube-like body of mineralization
- Several high-grade zones defined
- Mineralization open along strike
- JORC & NI 43-101 resource estimates imminent



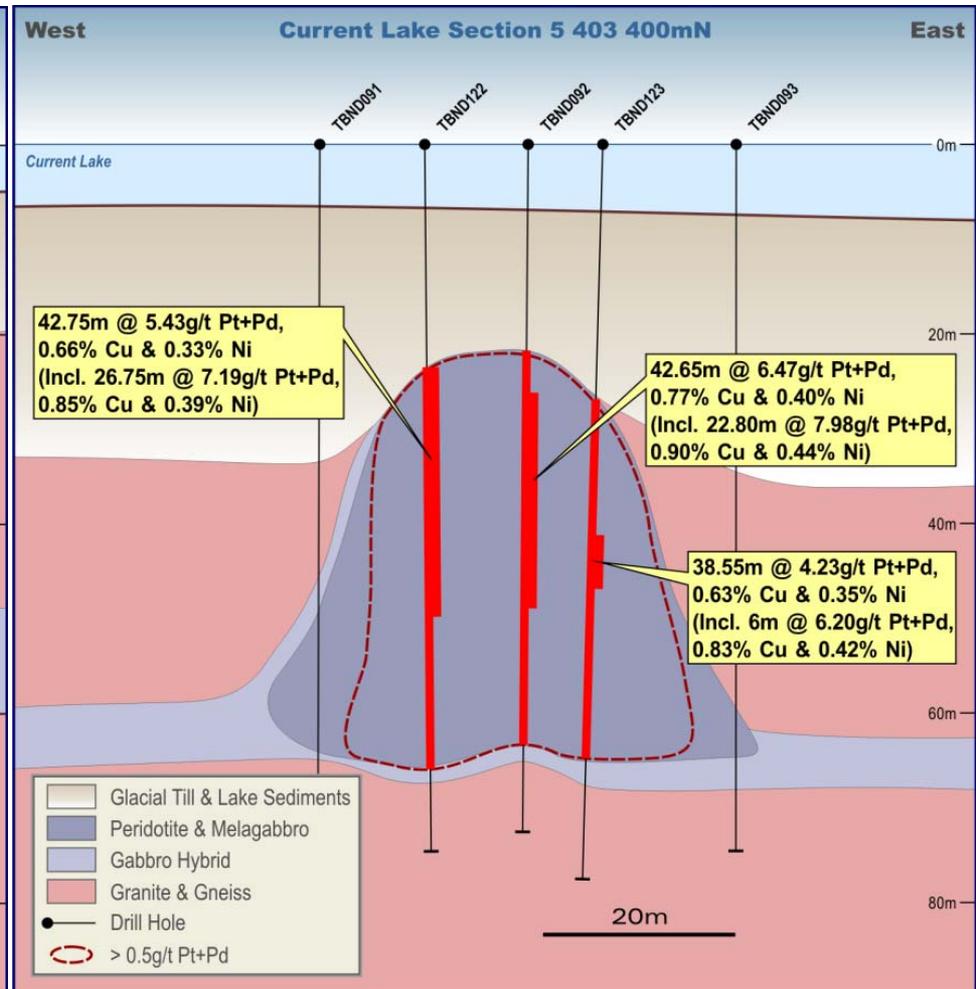
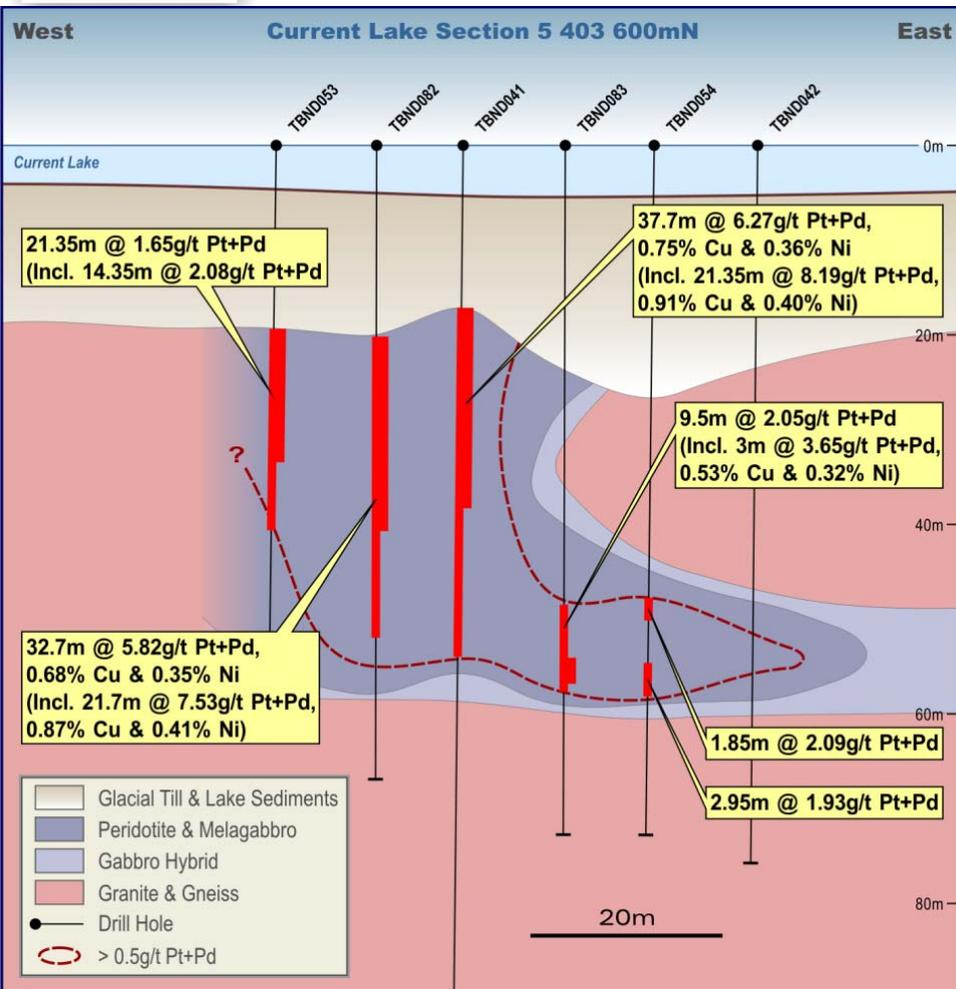


# Resource Drilling: Long Section View

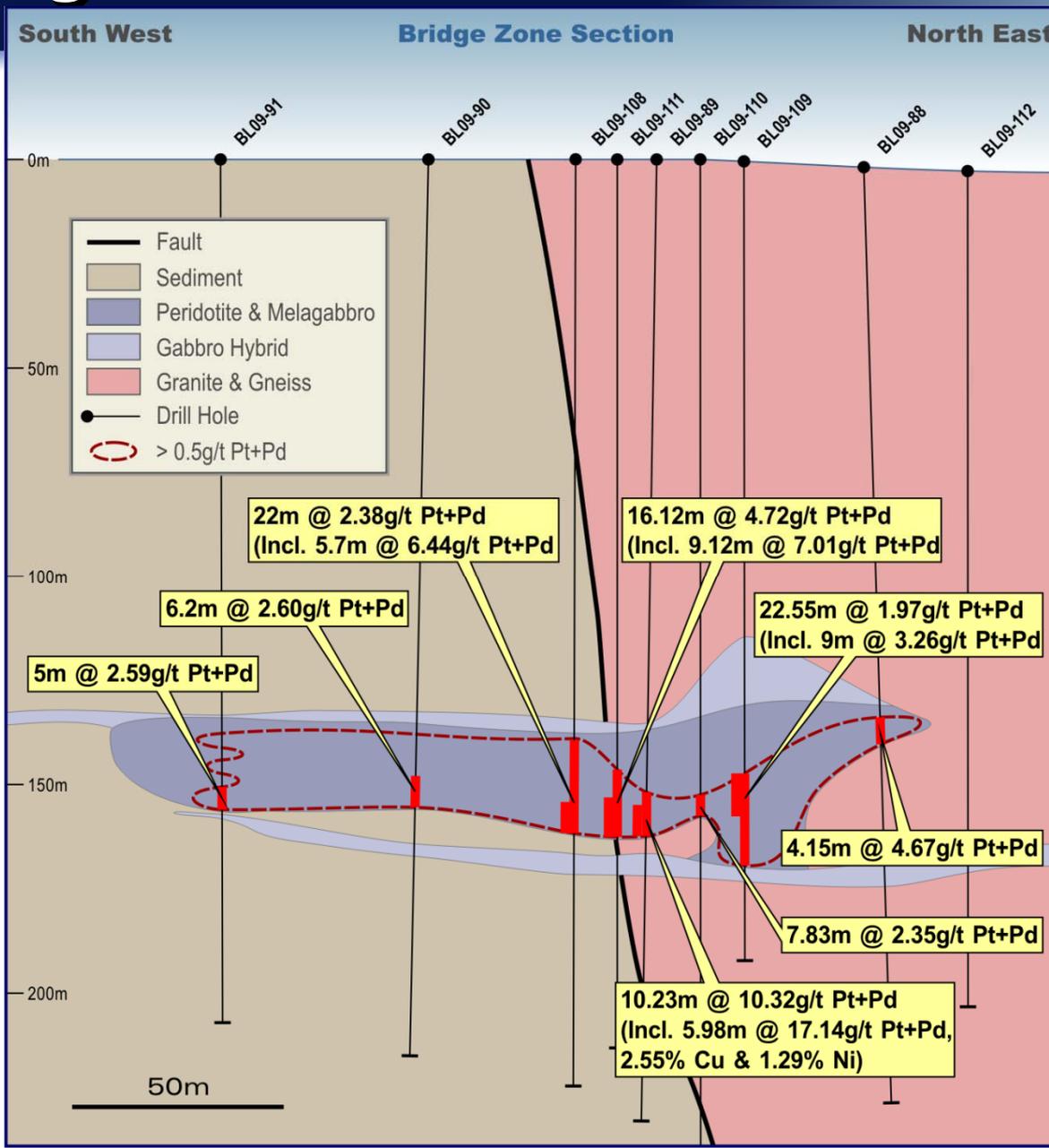




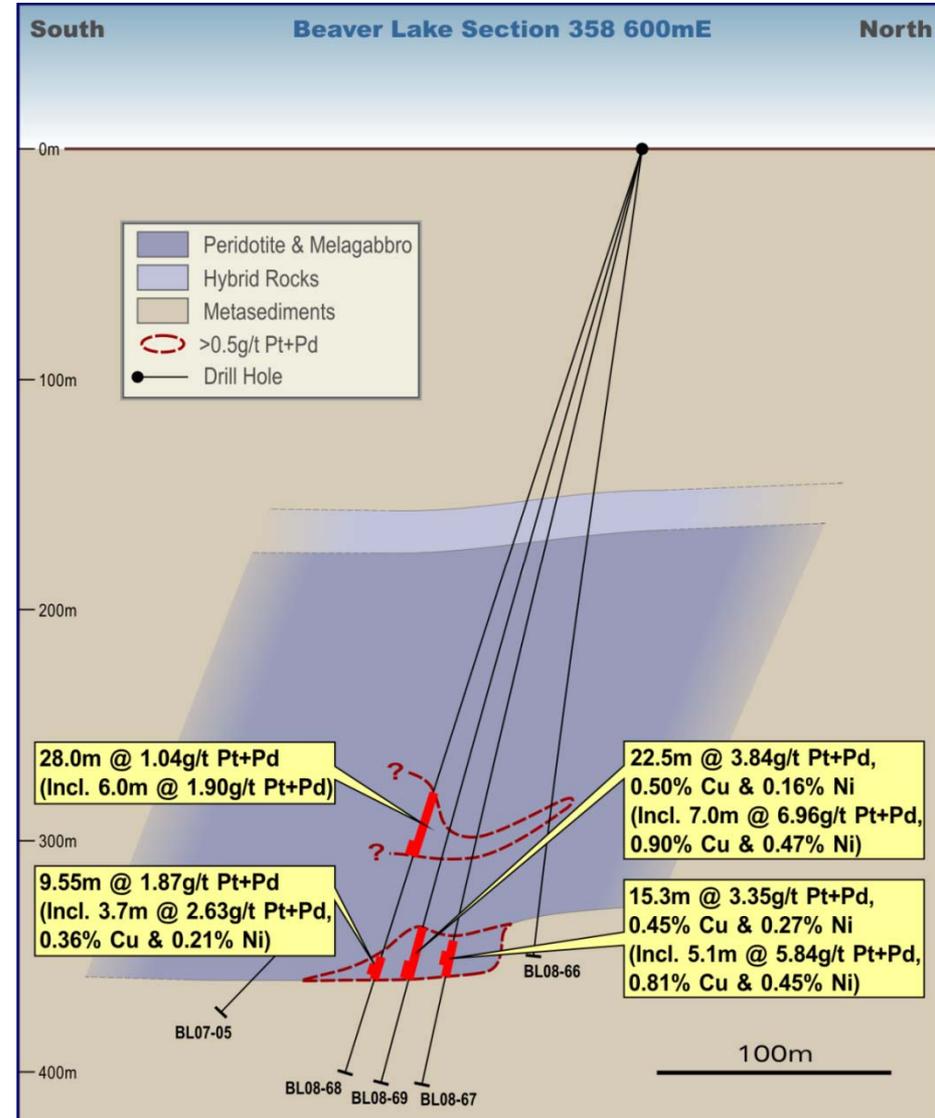
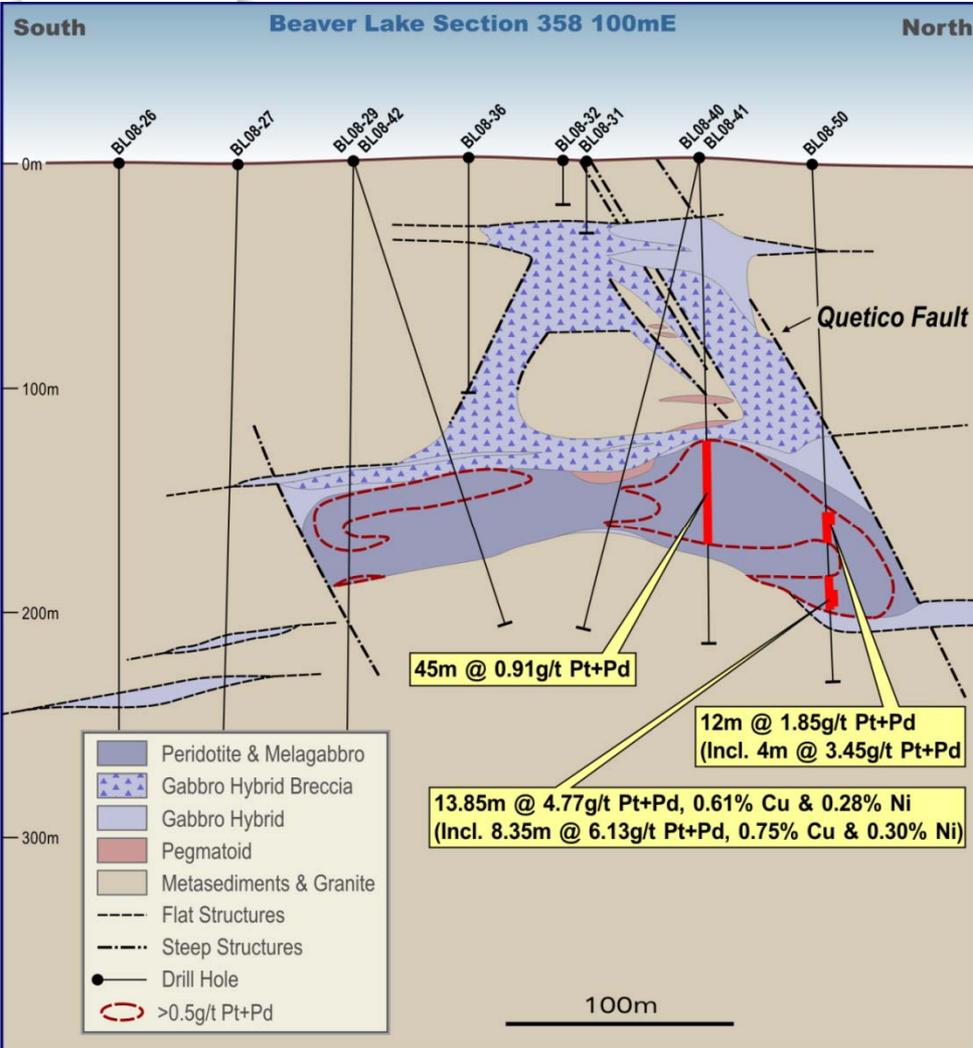
# Current Lake Cross-Sections 1 & 2



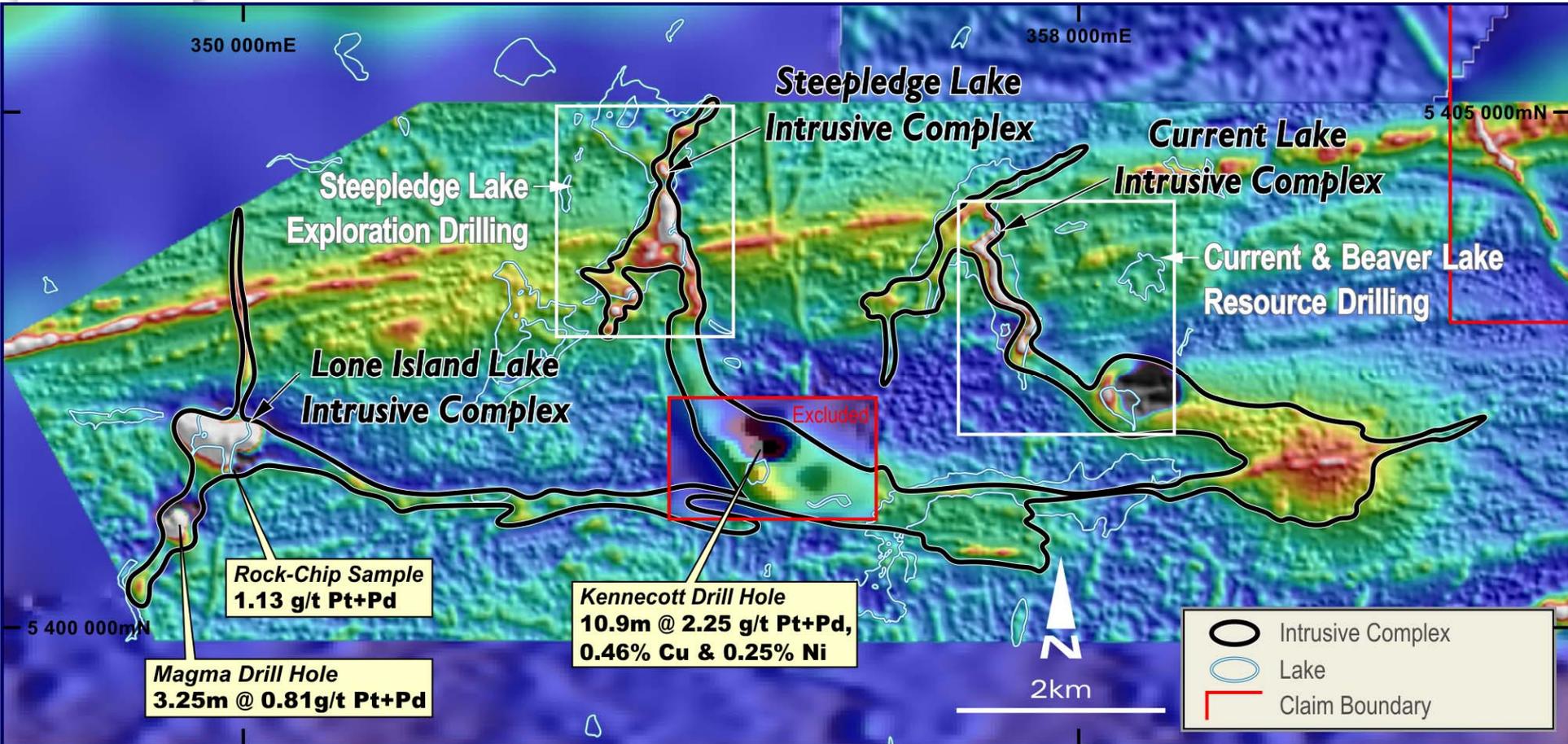
# Bridge Zone Cross-Section 3



# Beaver Lake Cross-Sections 4 & 5



# Magma Conduit Network



- Three intrusive complexes form a network of magma-conduits
- Two drilling programs in progress: Beaver Lake & Steeple Lake
- Significant potential for further discoveries



# Mineralization Styles



**Disseminated Sulphide**  
(~3-5g/t PGM, ~0.4% Cu & ~0.3% Ni)



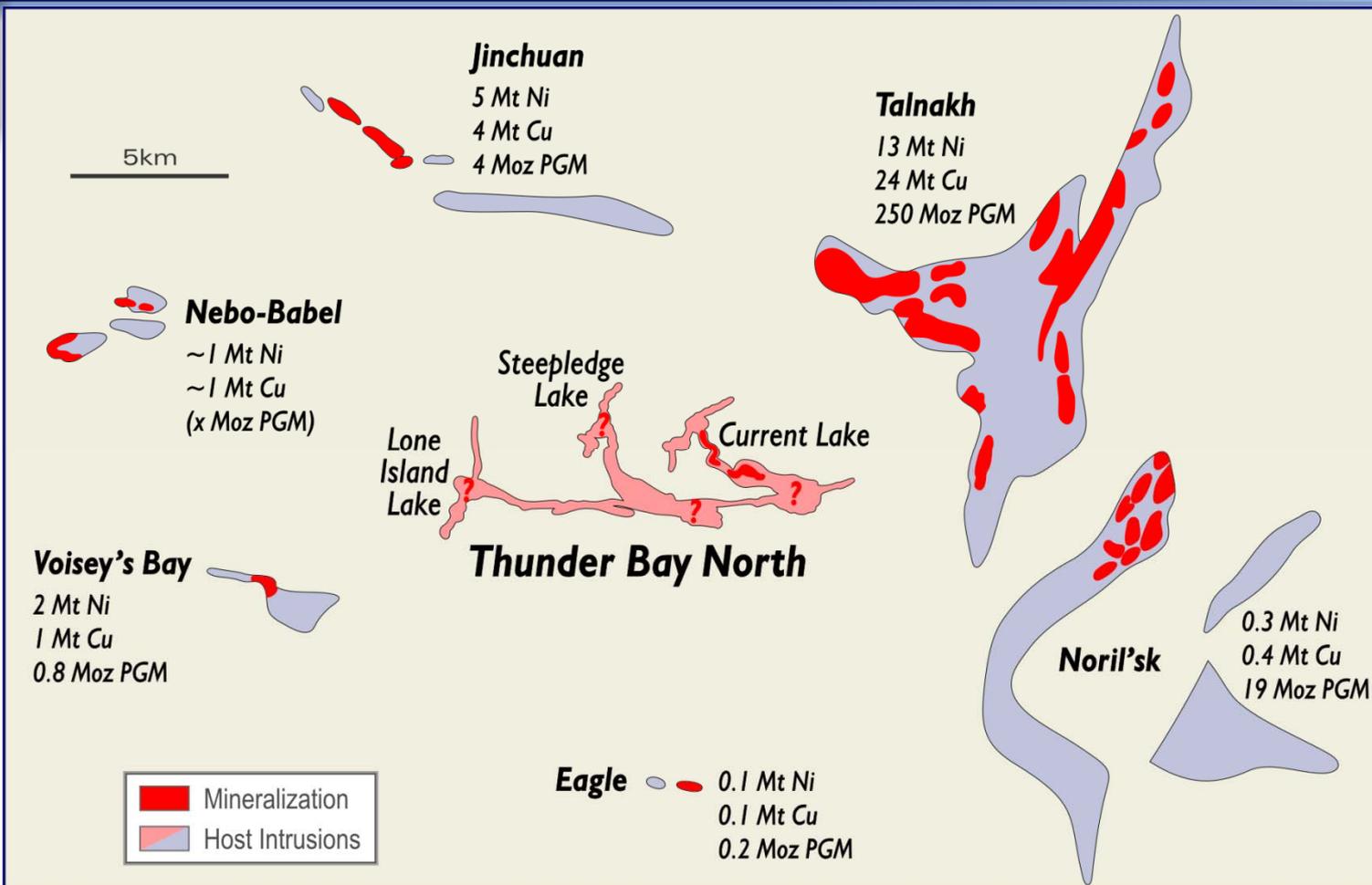
**Net-Textured (Semi-Massive) Sulphide**  
(~10-20g/t PGM, ~1-2% Cu & ~0.6% Ni)



**Massive-Sulphide**  
(~30-50g/t PGM, ~4-8% Cu & ~1-3% Ni)



# World Class Ni-Cu-PGM Magma Conduits



- Footprints of magma conduits hosting “world class” Ni-Cu-PGM deposits
- Thunder Bay North of comparable size
- Only 15% of Thunder Bay North explored by drilling

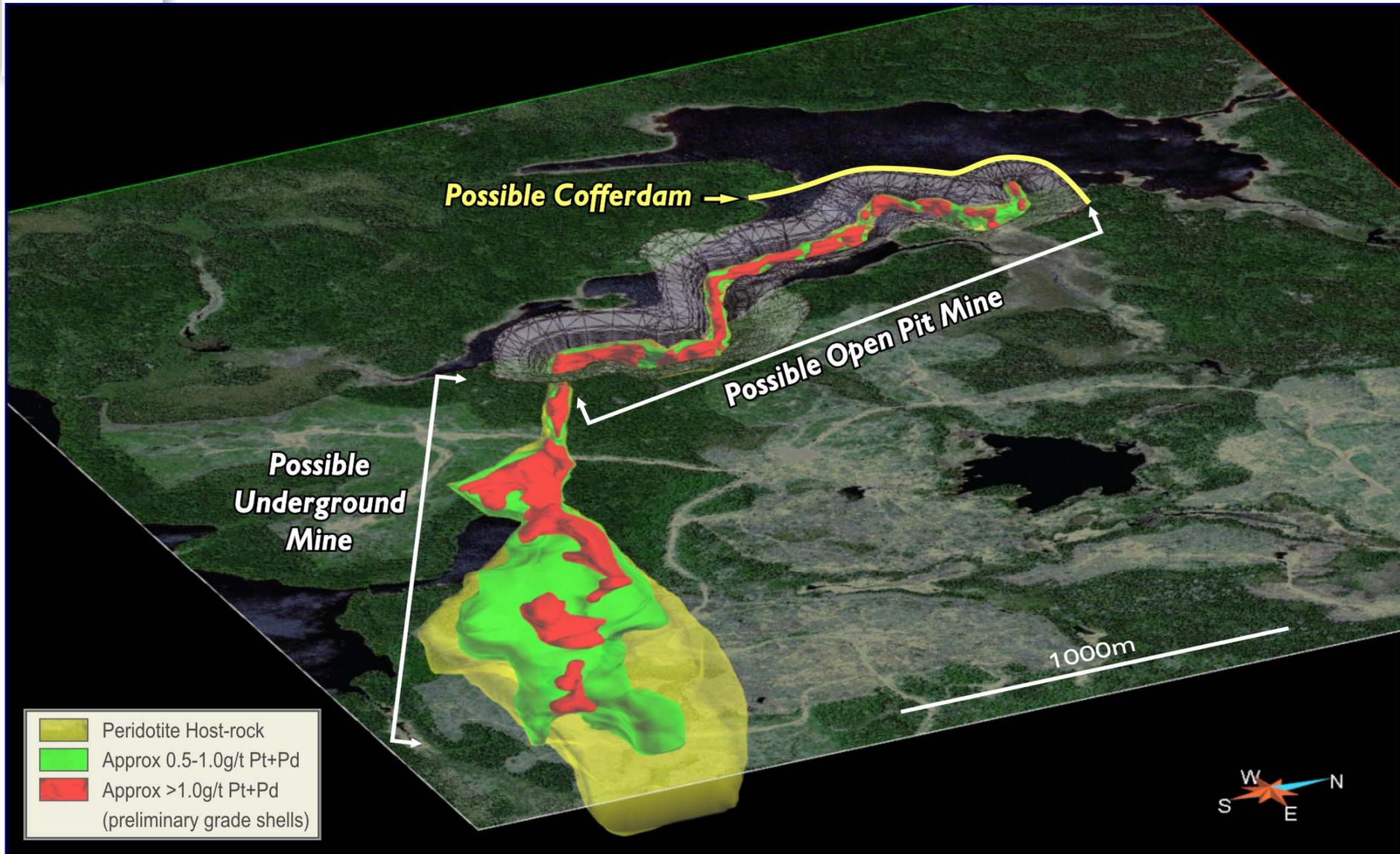
# Program to March 2010



Work Program	Sept Qtr 2009	Dec Qtr 2009	March Qtr 2010
Initial NI43-101 & JORC Resource Estimates	—		
Exploration Drilling	—	—	—
Infill Drilling Current – Beaver Lakes Area		—	—
Scoping Study		—	—
Environmental & Permitting Program	—	—	—

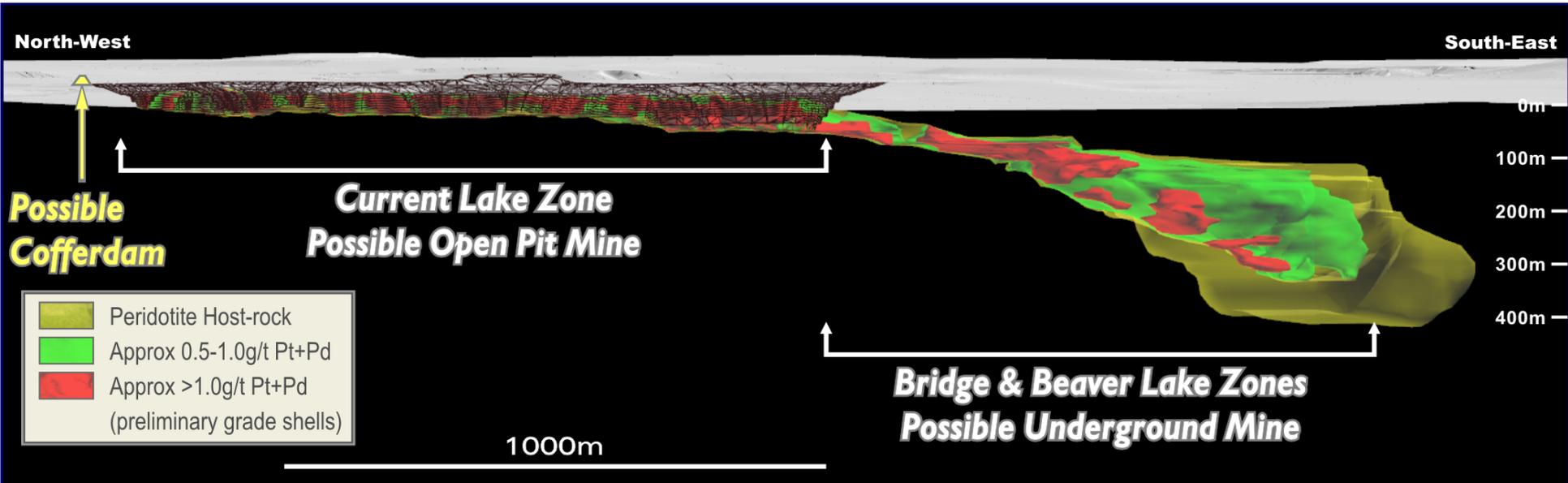
- Resource Estimation: *SRK Consulting (Toronto)*
- Scoping Study: *TBA*
- Environmental & Permitting Program: *DST Consulting Engineers (Thunder Bay)*

# Mining Concept – Perspective View





# Mining Concept – Long Section View





# Investment Opportunity

## Thunder Bay North PGM Project

- Potential for significant PGM project in Canada
- Valuable Ni-Cu credits
- Close to Infrastructure
- Initial resource estimates imminent
- Excellent regional potential for discovery of disseminated & massive sulphide Ni-Cu-PGM deposits



# Magma Metals Limited (ASX: MMB)

[www.magmametals.com.au](http://www.magmametals.com.au)

## Directors

Keith Watkins: Managing Director & CEO

Ralph Porter: Executive Director – Exploration, Australia

Max Cozijn: Executive Director – Corporate

Terry Burgess: Non-Executive Director

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