



*TSX-V:CZX*

**CANADA ZINC**

**METALS CORP.**

# The Cardiac Creek Zn-Pb-Ag SEDEX Deposit

## Update & Insight



# Legal Disclaimer

This presentation contains forward looking statements; including in particular, statements about Canada Zinc Metals Corp.'s plans, strategies and prospects. These have been based on the Company's current assumptions, expectations and projections about future events.

Although the Company believes that the expectations reflected in these forward looking statements are reasonable, the Company can give no assurance that these expectations will prove to be correct or that the results anticipated in the forward looking statements will be achieved. These forward looking statements include risks and uncertainties, which relate to, amongst other things, market conditions, industry uncertainty and other such factors which may cause the Company's actual results to be materially different.

Ken MacDonald P.Geo., Vice President of Exploration, is the designated Qualified Person as defined by National Instrument 43-101 and is responsible for the technical information contained herein.

Robert Sim, P.Geo., is an independent consultant and served as the Qualified Person responsible for the preparation of the 2012 NI 43-101 Technical Report on the Akie Project and is responsible for the 2008 and 2012 mineral resource estimates for the Cardiac Creek deposit, situated on the Company's 100% owned Akie Property.

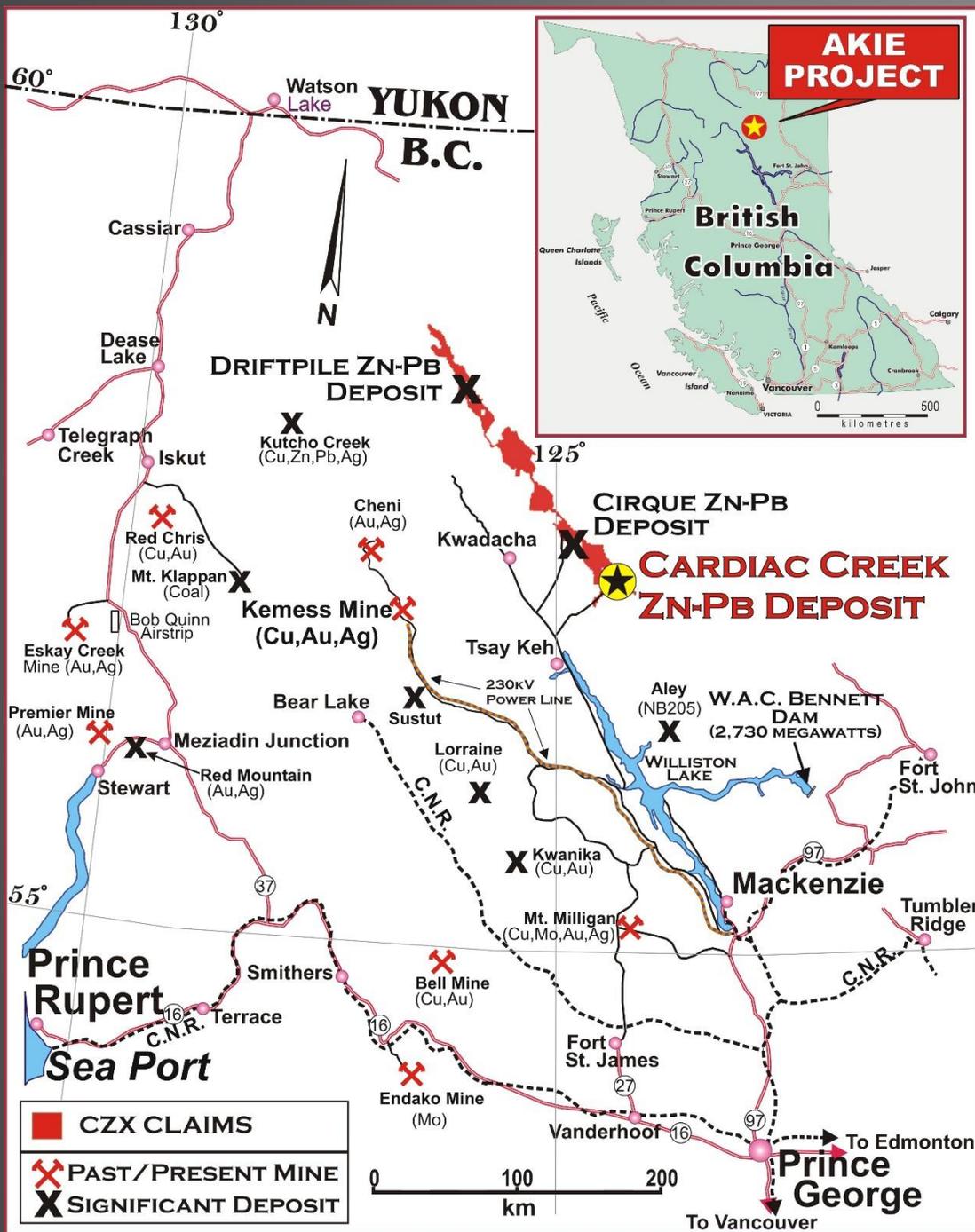


# Overview

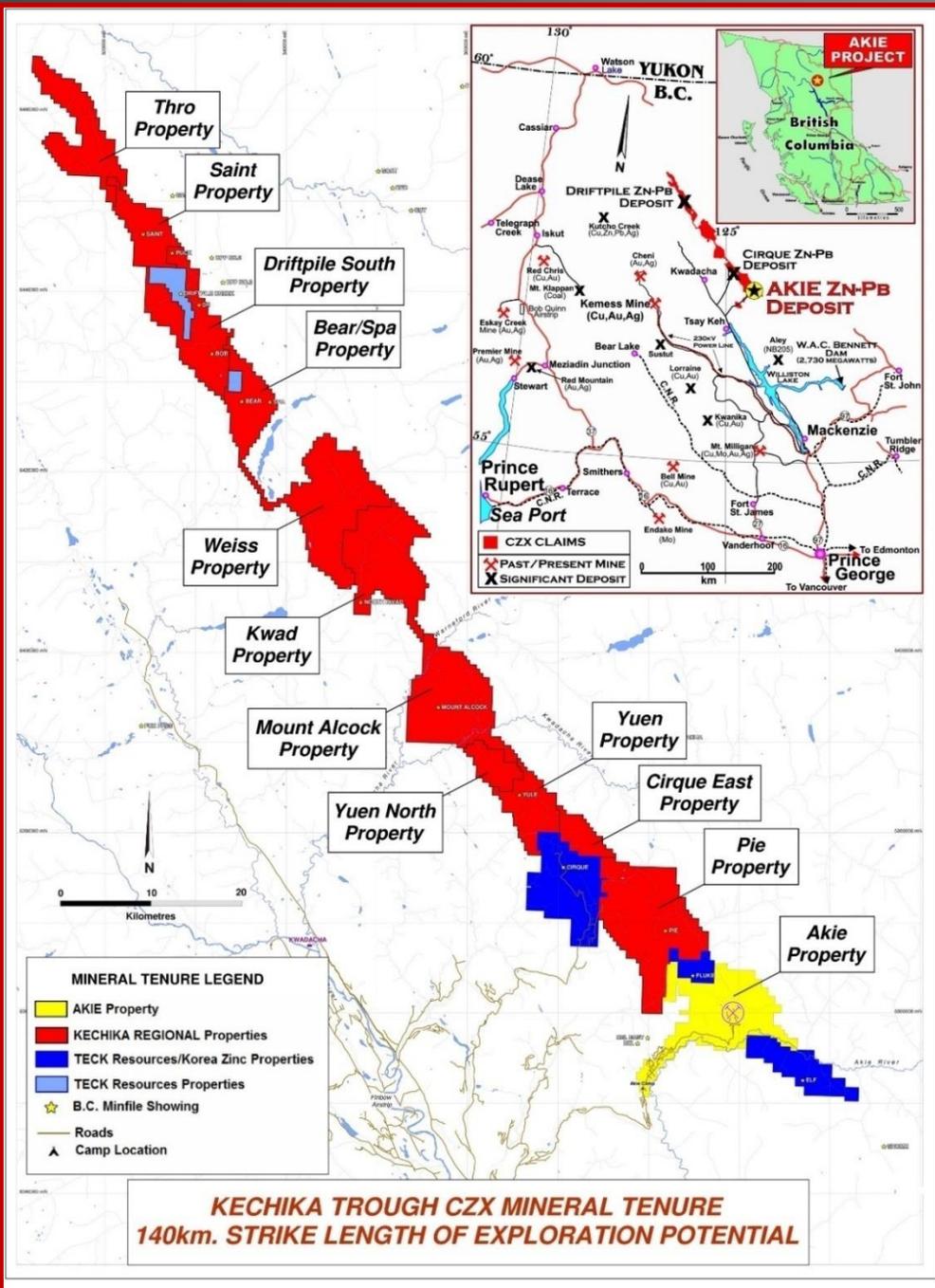
- **General Overview**
- **Geology (Regional to Property Scale)**
- **Exploration Update**
- **Characteristics of the Cardiac Creek Deposit**
- **Nick-style Mineralisation  
(after Nick deposit, Yukon) – Time Permitting**

# Location & Infrastructure

- The Akie project is located in NE British Columbia
  - 260 km NNW of Mackenzie
  - 450 km NNW of Prince George
- Paved highway and railway access at Mackenzie
- Deposit accessed via existing forestry roads
- BC's largest hydroelectric power source is 160 km SE
- Deep Sea Port at Prince Rupert and zinc smelter at Trail, B.C.
- Strong Government & Local Community Support

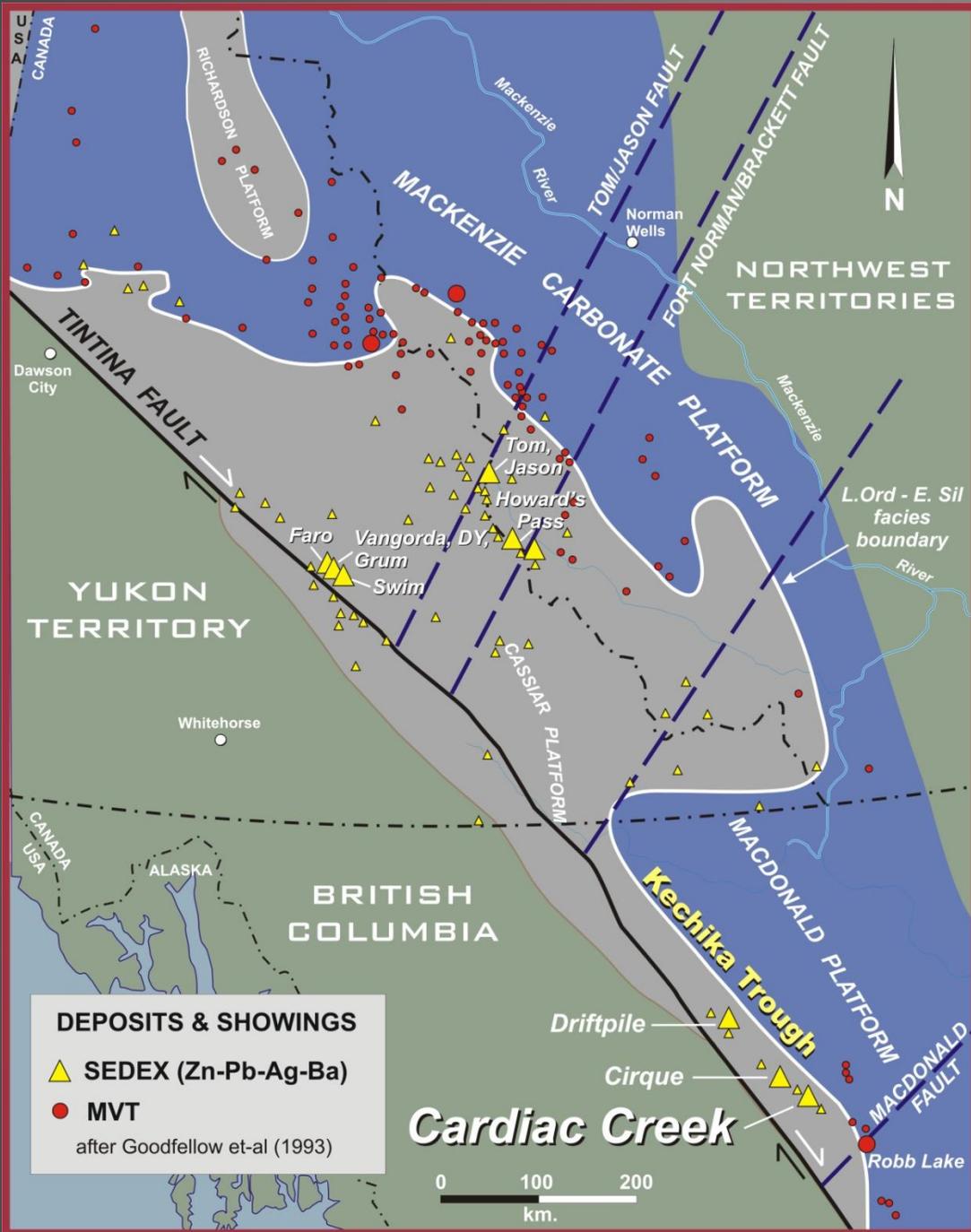


# Akie & Kechika Regional Properties



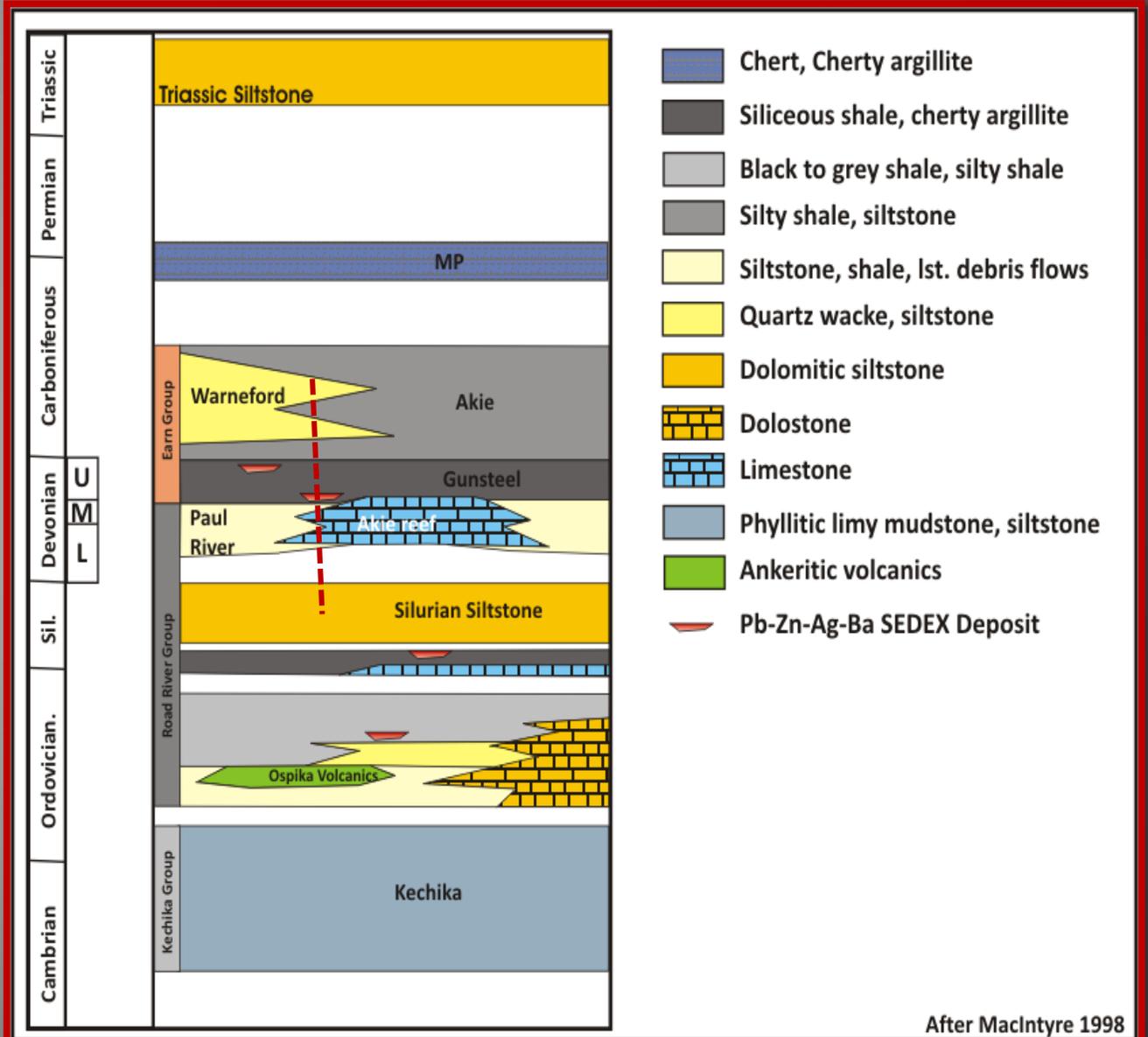
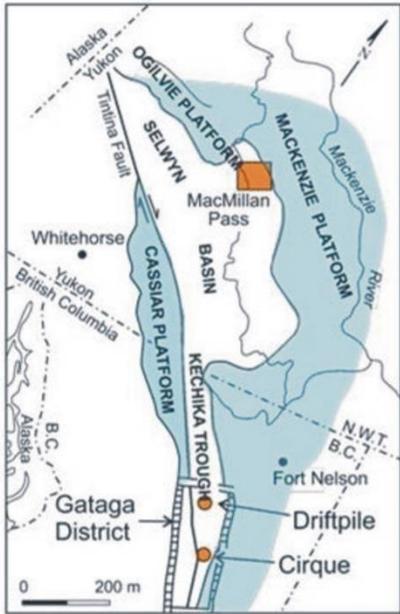
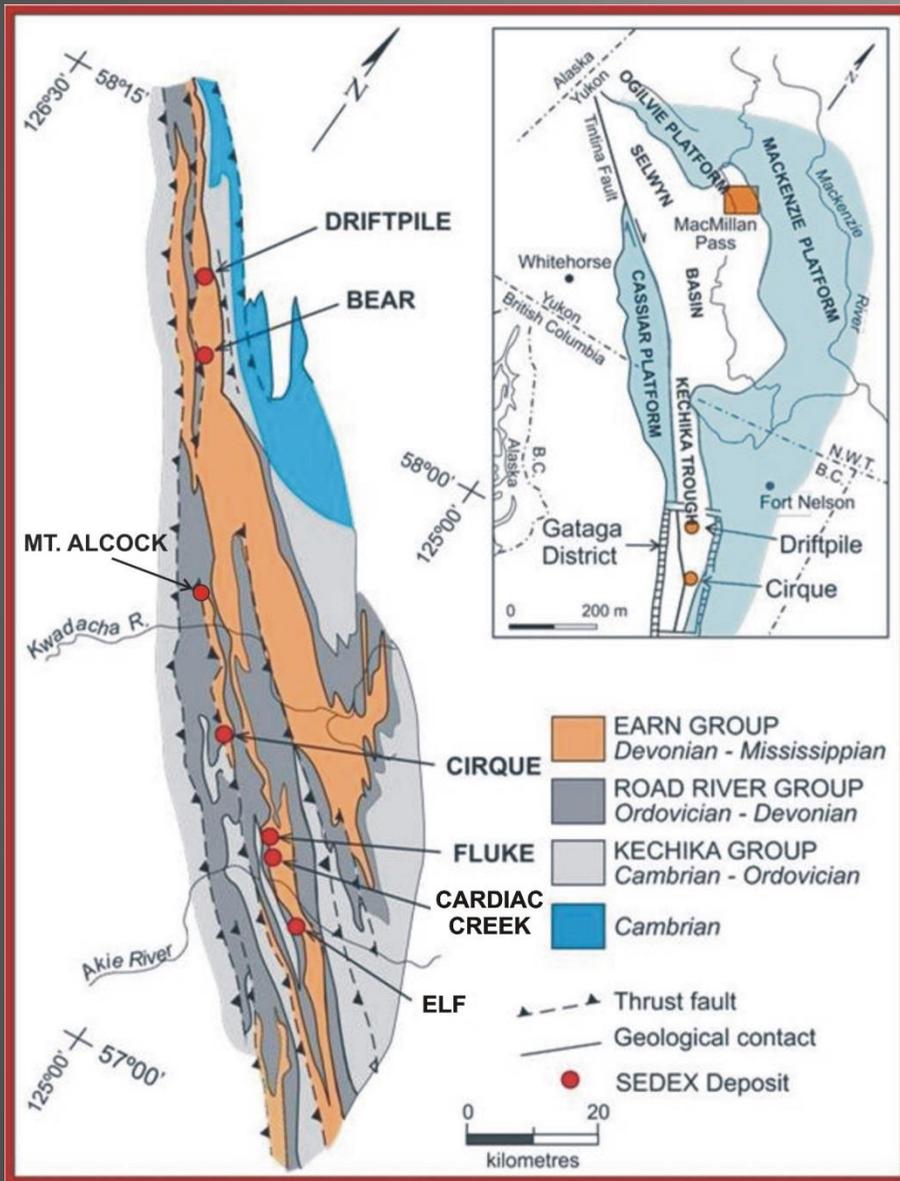
- Akie Property: 116 km<sup>2</sup> (yellow)
- Kechika Regional: 505 km<sup>2</sup> (red)
- CZX 100% Ownership
- Overlies 140 km of prospective Gunsteel Formation
- Tenure in Good Standing to Dec. 2025
- 79,780 hectares in BC's highly prospective Kechika Zn- Pb-Ag Trough SEDEX belt
- Belt hosts several base metal deposits: (Akie, Cirque, Driftpile)

# Selwyn Basin

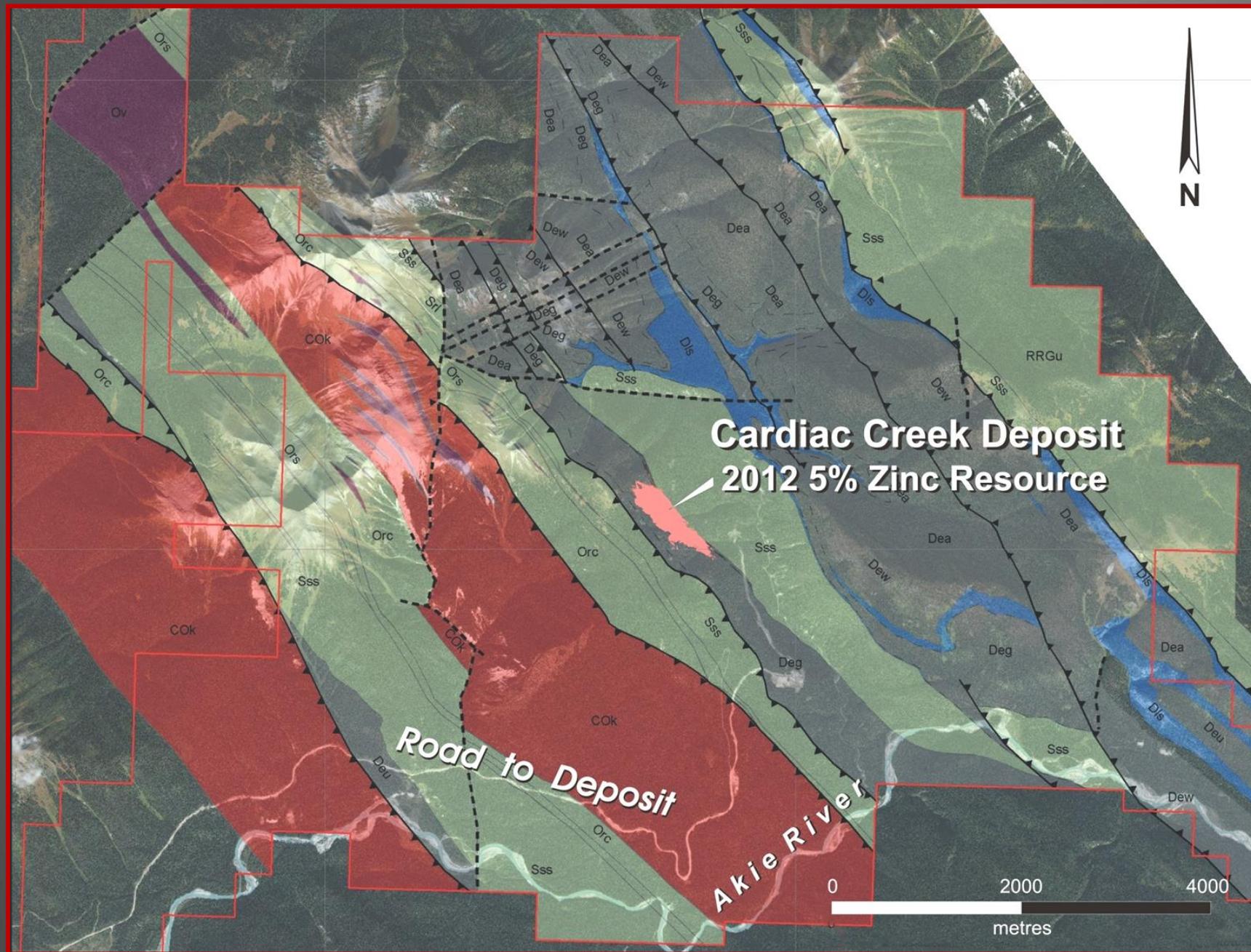


- The Kechika Trough is the SE arm of the Selwyn Basin
- The basin is host to numerous SEDEX deposits
- The key geological group is the Earn Group

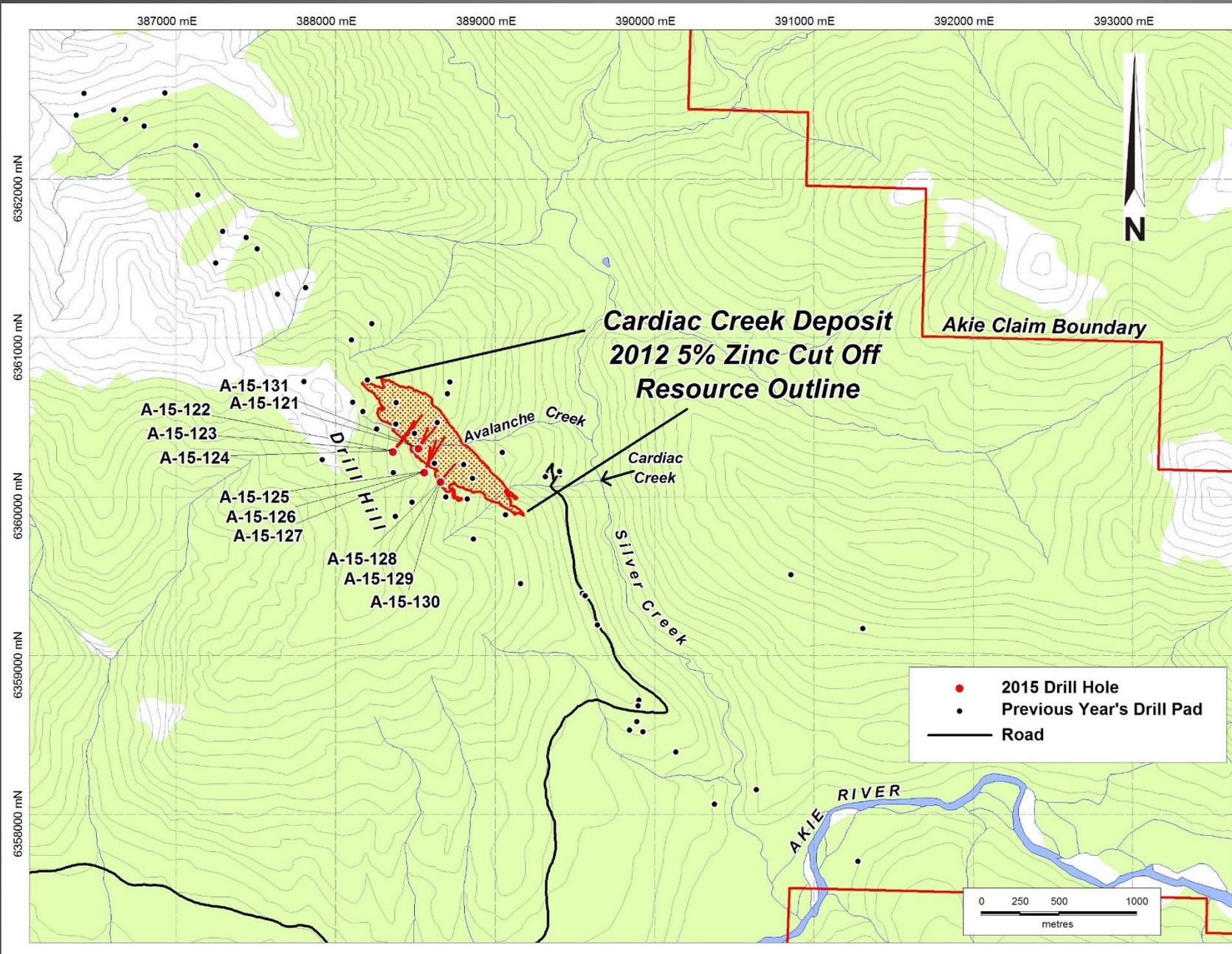
# General Stratigraphy Kechika Trough



# Akie Property Geology



# Akie Property 2015 Drill Hole Locations



W

E



## Schematic of Depositional Setting of Mineralisation on the Akie Property

### LEGEND

#### EARN GROUP

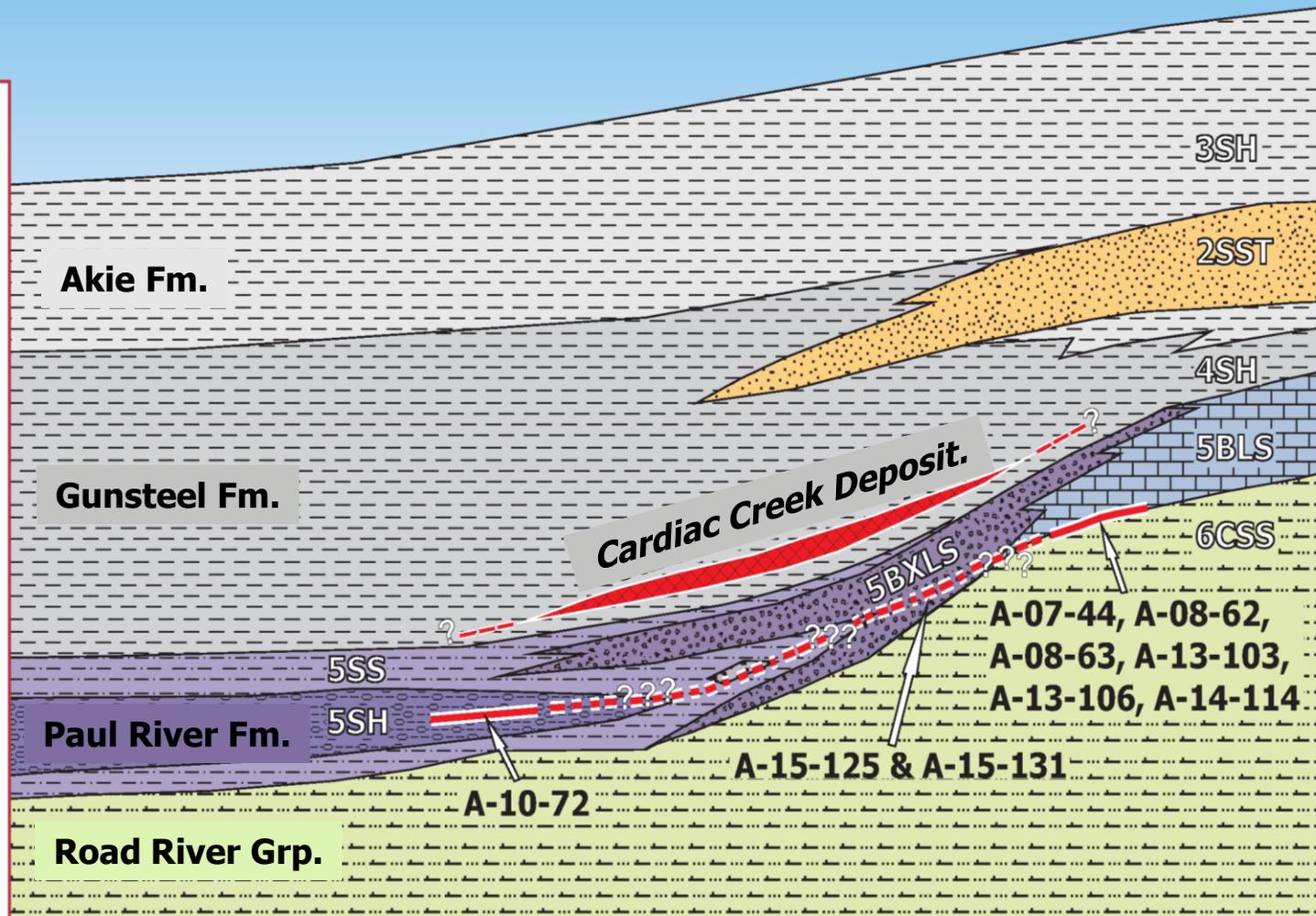
-  Warneford Fm.  
Siltstone to Sandstone
-  Akie Fm.  
Soft Shale
-  Gunsteel Fm.  
Siliceous Shale
-  Cardiac Creek  
Deposit

#### PAUL RIVER Fm.

-  Fossiliferous  
Limestone
-  Debris Flow
-  Turbiditic Shale
-  Cherty Shale

#### ROAD RIVER GRP.

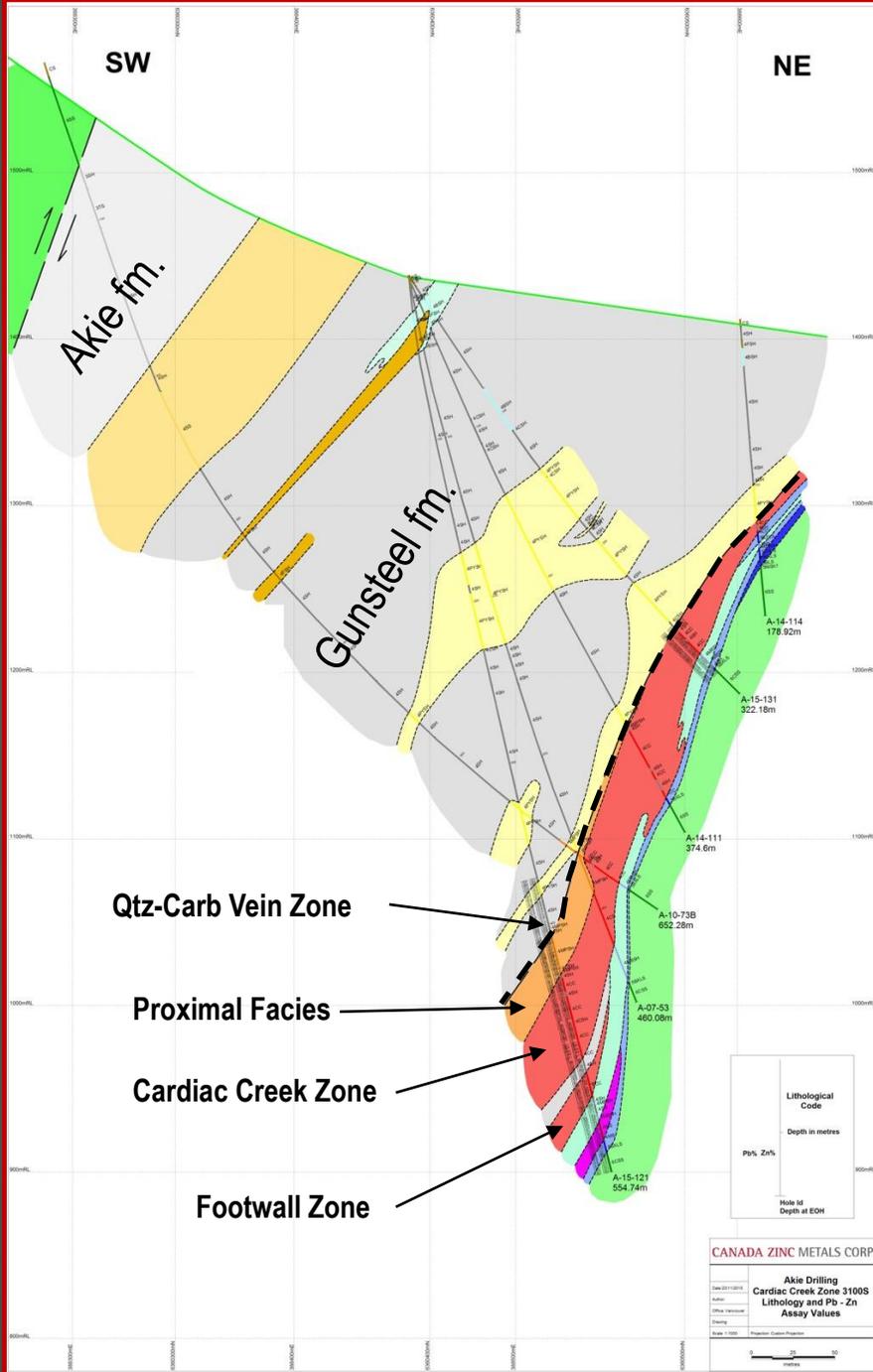
-  Calcareous  
Siltstone
-  Nick-Style Mineralisation



# Cardiac Creek Deposit

- Situated near base of Gunsteel Formation shales
- Positioned at transition between limestone reef and basin

# Cardiac Creek Deposit



- Tabular body of mineralisation ranging in thickness up to 50m and averaging ~20m
- The deposit trends NW-SE and dips steeply at 70 degrees to the SW
- Approximate dimension of 1300 metres in strike length and a dip extent of ~800m
- Deposit is characterised by two facies: The Proximal Facies and Cardiac Creek Zone Facies (gradational transition with incr. Sp content)
- Upper contact bounded by distinct Qtz-Carb vein zone
- Consists of main Cardiac Creek Zone and a Footwall Zone

# 2012 NI 43-101 Resource Calculation

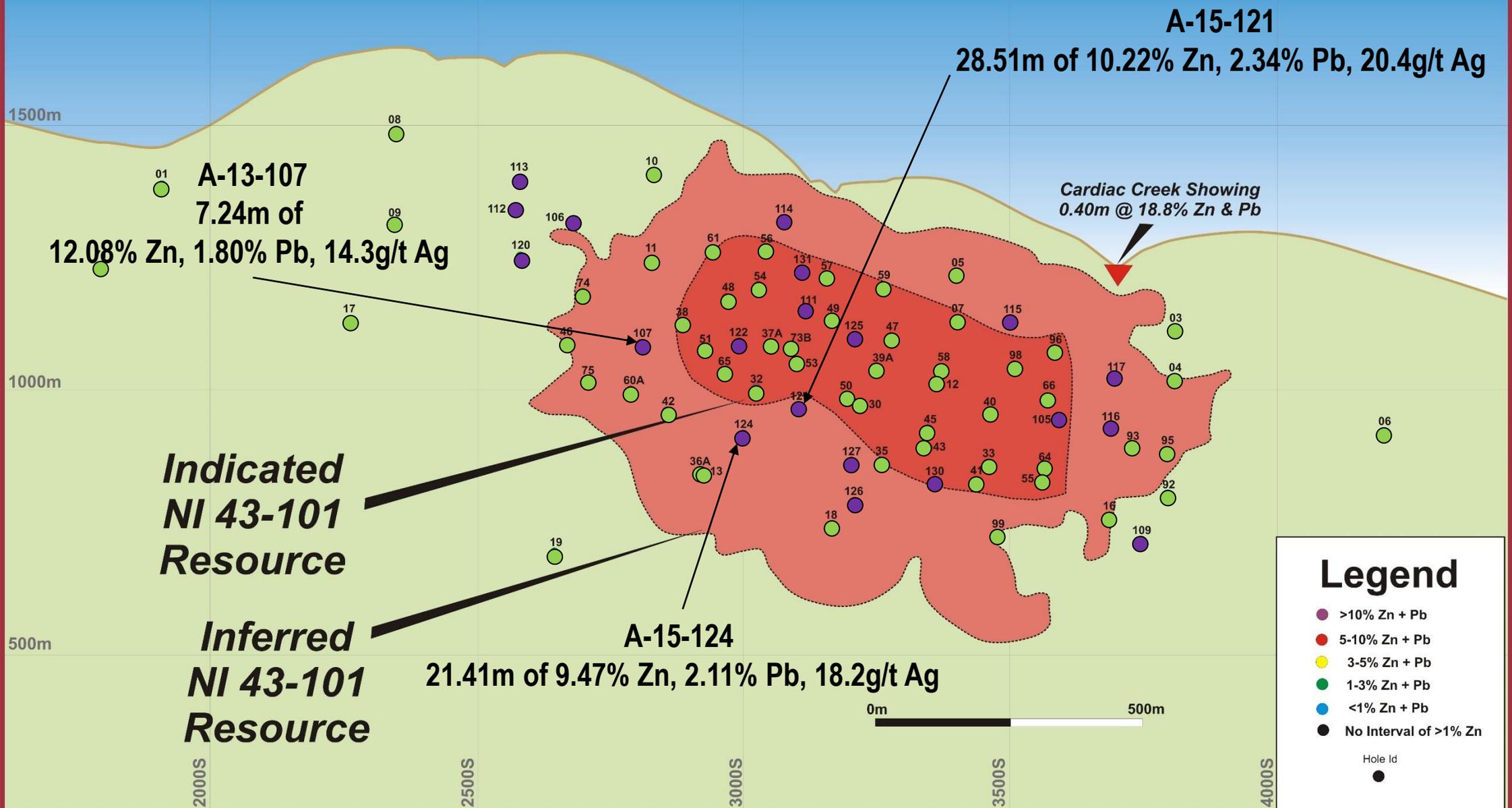
Cut Off Grade % Zinc	Tonnes (000's)	Zinc (%)	Lead (%)	Silver (g/t)	Combined Zn + Pb (%)	Zinc Metal tonnes (000's)	Lead Metal tonnes (000's)	Silver ounces (000's)
<b>INDICATED</b>								
2	20,088	6.59	1.31	11.2	7.90	1,324	263	7,202
3	17,683	7.15	1.43	12.0	8.58	1,264	253	6,805
4	15,195	7.75	1.56	12.8	9.31	1,178	237	6,258
<b>5</b>	<b>12,731</b>	<b>8.38</b>	<b>1.68</b>	<b>13.7</b>	<b>10.06</b>	<b>1,067</b>	<b>214</b>	<b>5,595</b>
6	10,342	9.05	1.81	14.6	10.86	936	187	4,845
7	7,798	9.89	1.98	15.6	11.87	771	155	3,919
<b>INFERRED</b>								
2	48,102	4.62	0.83	8.1	5.63	2,222	399	12,480
3	33,016	5.61	1.02	9.4	6.63	1,852	337	9,968
4	23,278	6.50	1.19	10.5	7.69	1,513	277	7,888
<b>5</b>	<b>16,287</b>	<b>7.38</b>	<b>1.34</b>	<b>11.6</b>	<b>8.72</b>	<b>1,202</b>	<b>218</b>	<b>6,053</b>
6	11,026	8.28	1.50	12.5	9.78	913	165	4,435
7	7,092	9.29	1.67	13.7	10.96	659	118	3,122

NW

SE



# Drilling History on the Cardiac Creek Deposit



A-15-121

28.51m of 10.22% Zn, 2.34% Pb, 20.4g/t Ag

Cardiac Creek Showing  
0.40m @ 18.8% Zn & Pb

A-13-107

7.24m of  
12.08% Zn, 1.80% Pb, 14.3g/t Ag

A-15-124

21.41m of 9.47% Zn, 2.11% Pb, 18.2g/t Ag

**Indicated  
NI 43-101  
Resource**

**Inferred  
NI 43-101  
Resource**

### Legend

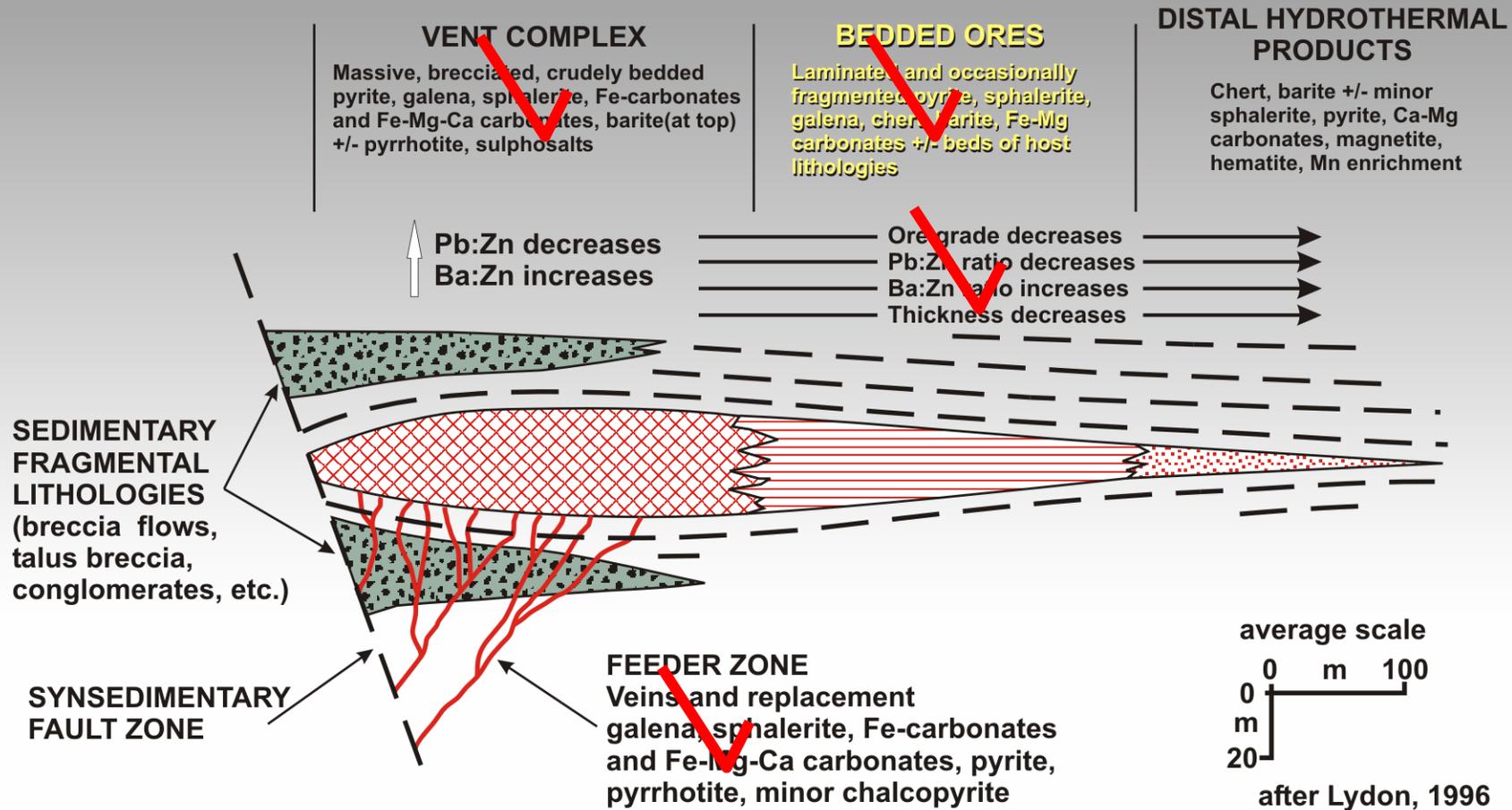
- >10% Zn + Pb
- 5-10% Zn + Pb
- 3-5% Zn + Pb
- 1-3% Zn + Pb
- <1% Zn + Pb
- No Interval of >1% Zn
- Hole Id

# Mineralisation Vectors

- Metals Ratios – Pb/Zn
- Mineralisation Character/Texture
- Vent Proximal Features
- Concretions

A-15

# IDEALISED SEDEX DEPOSIT

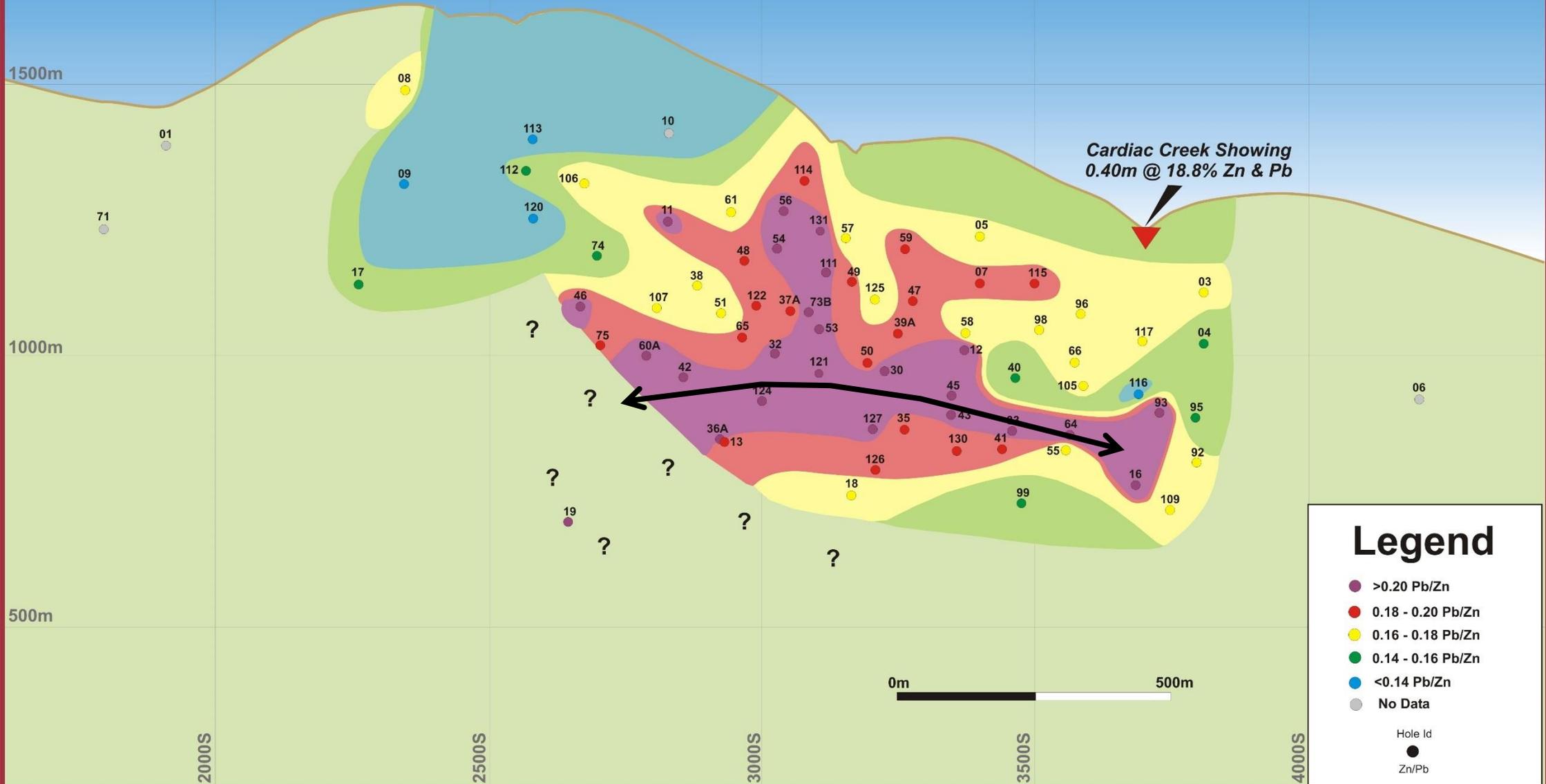


NW

SE



# 1% Zn Envelope, Pb/Zn Long Section CCZ Increasing Towards Vent



Cardiac Creek Showing  
0.40m @ 18.8% Zn & Pb

### Legend

- >0.20 Pb/Zn
- 0.18 - 0.20 Pb/Zn
- 0.16 - 0.18 Pb/Zn
- 0.14 - 0.16 Pb/Zn
- <0.14 Pb/Zn
- No Data

Hole Id  
●  
Zn/Pb

# Character/Texture of Cardiac Creek Deposit Mineralisation

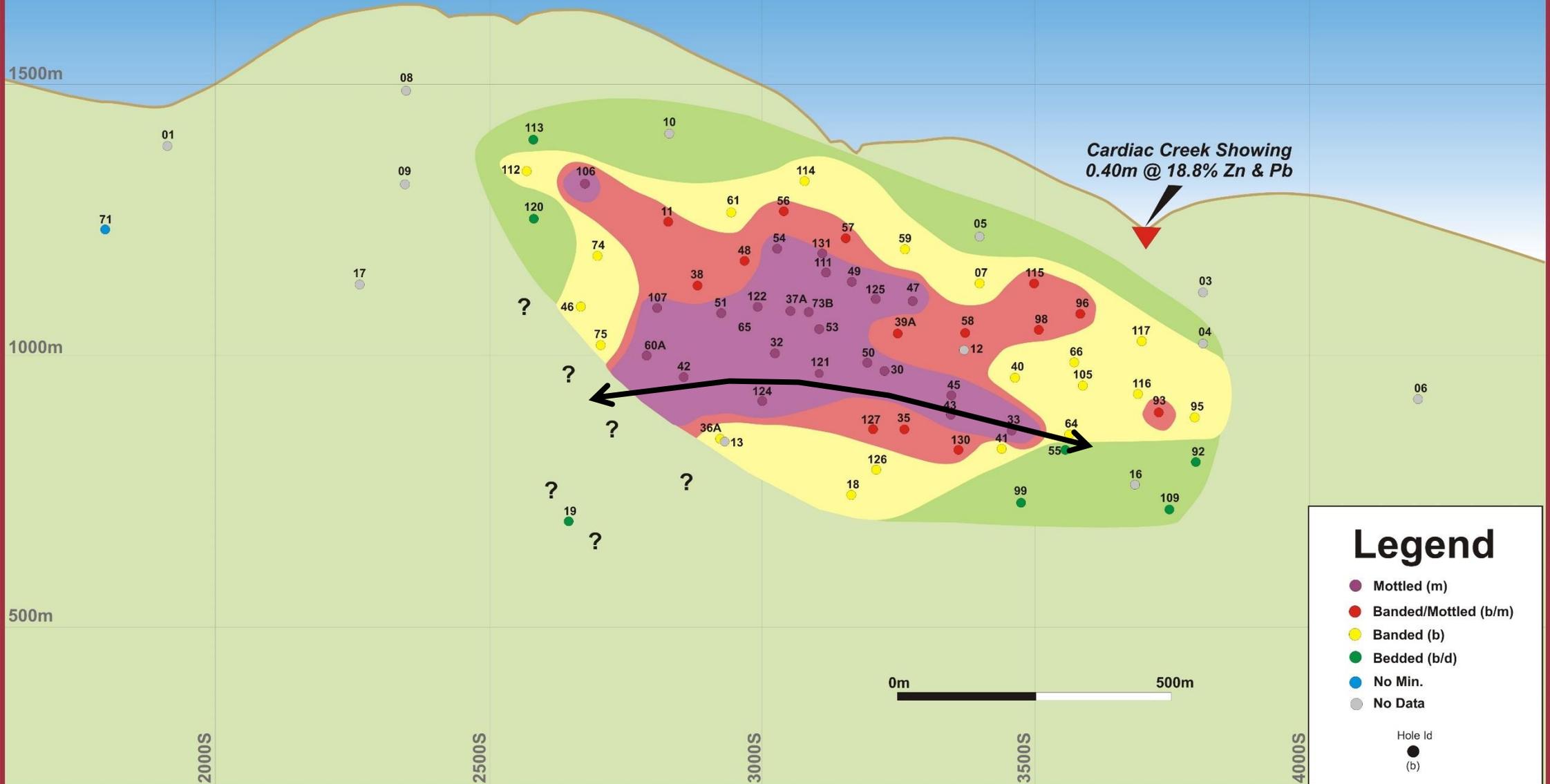


NW

SE



# Character/Texture of Deposit Mineralisation

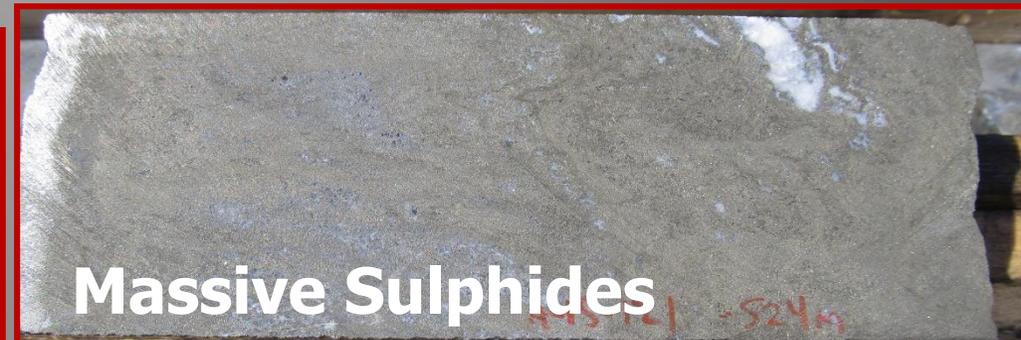
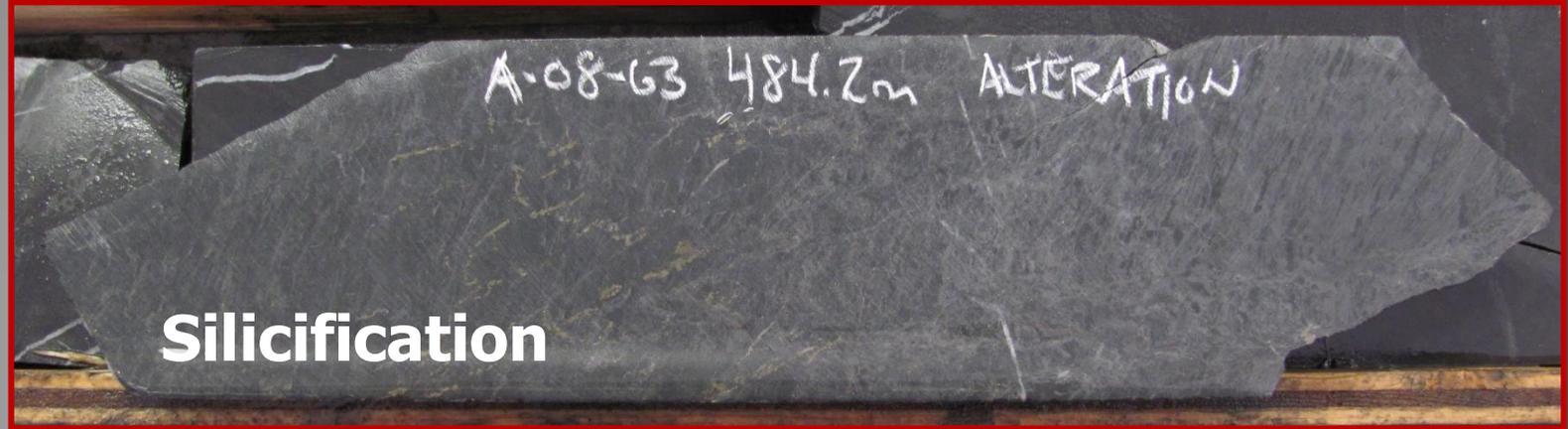


## Legend

- Mottled (m)
- Banded/Mottled (b/m)
- Banded (b)
- Bedded (b/d)
- No Min.
- No Data

Hole Id  
●  
(b)

# Possible Vent Proximal Characteristics

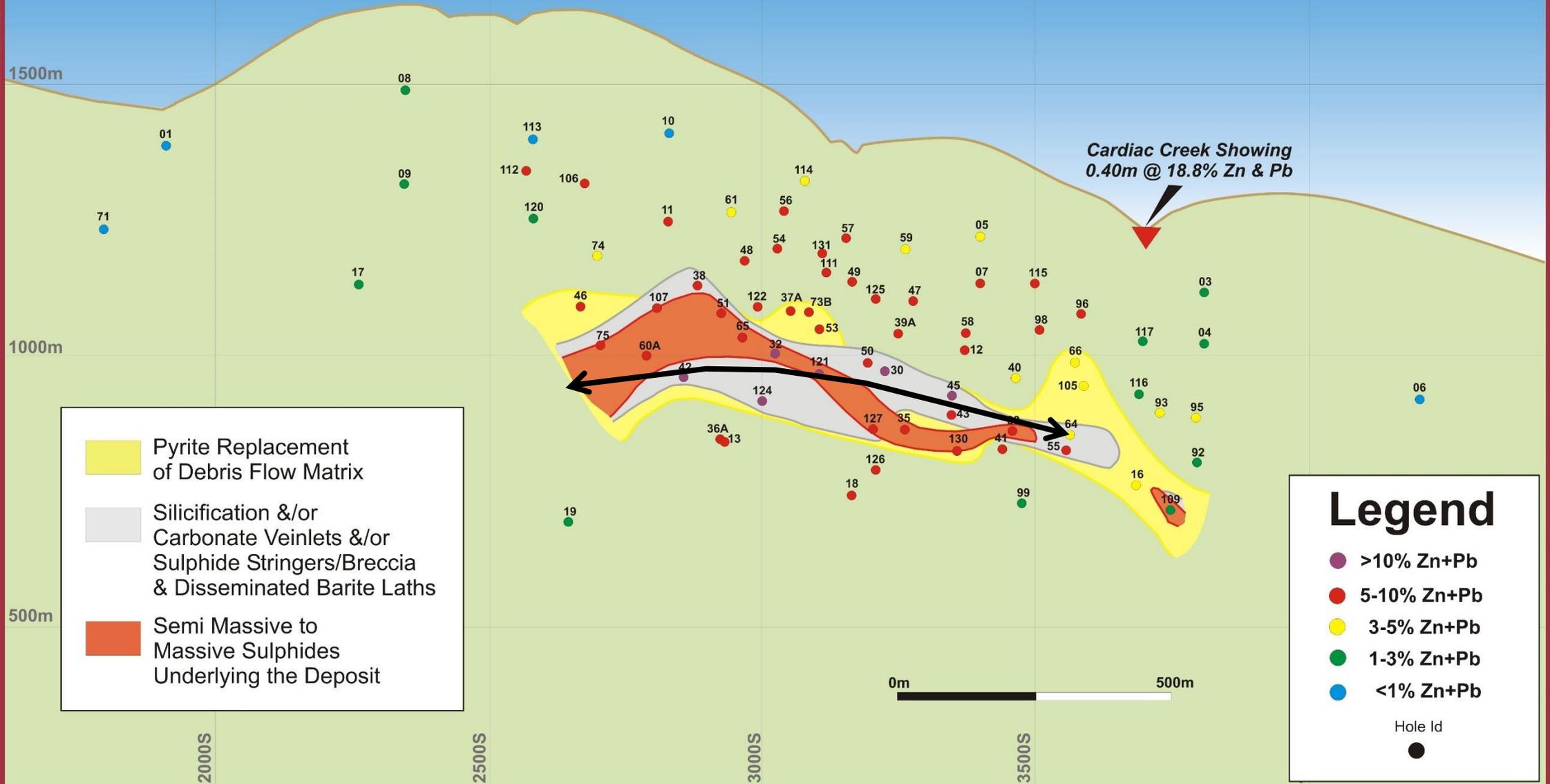


NW

SE



# Vent Proximal Characteristics Long Section



- Pyrite Replacement of Debris Flow Matrix
- Silicification &/or Carbonate Veinlets &/or Sulphide Stringers/Breccia & Disseminated Barite Laths
- Semi Massive to Massive Sulphides Underlying the Deposit

## Legend

- >10% Zn+Pb
- 5-10% Zn+Pb
- 3-5% Zn+Pb
- 1-3% Zn+Pb
- <1% Zn+Pb
- Hole Id

# Concretions Across the Deposit



**A-13-107 Bedded & Shale Concretion**



**A-15-122 Bedded & Shale Concretion**



**A-13-107 Bedded Concretion**



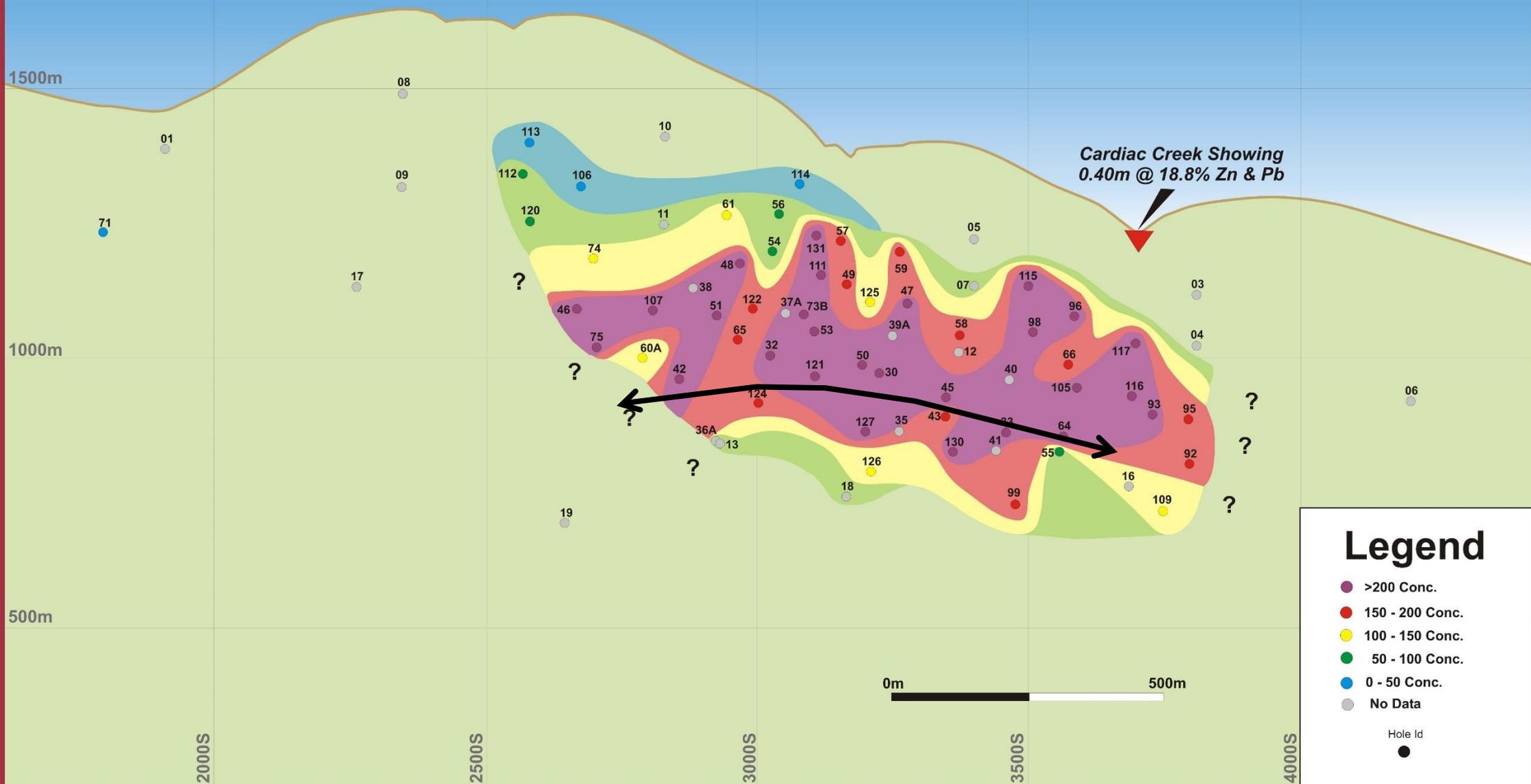
**A-05-32 Bedded Concretion**

NW

SE



# Cardiac Creek Deposit Zone Concretion Plot



### Legend

- >200 Conc.
- 150 - 200 Conc.
- 100 - 150 Conc.
- 50 - 100 Conc.
- 0 - 50 Conc.
- No Data

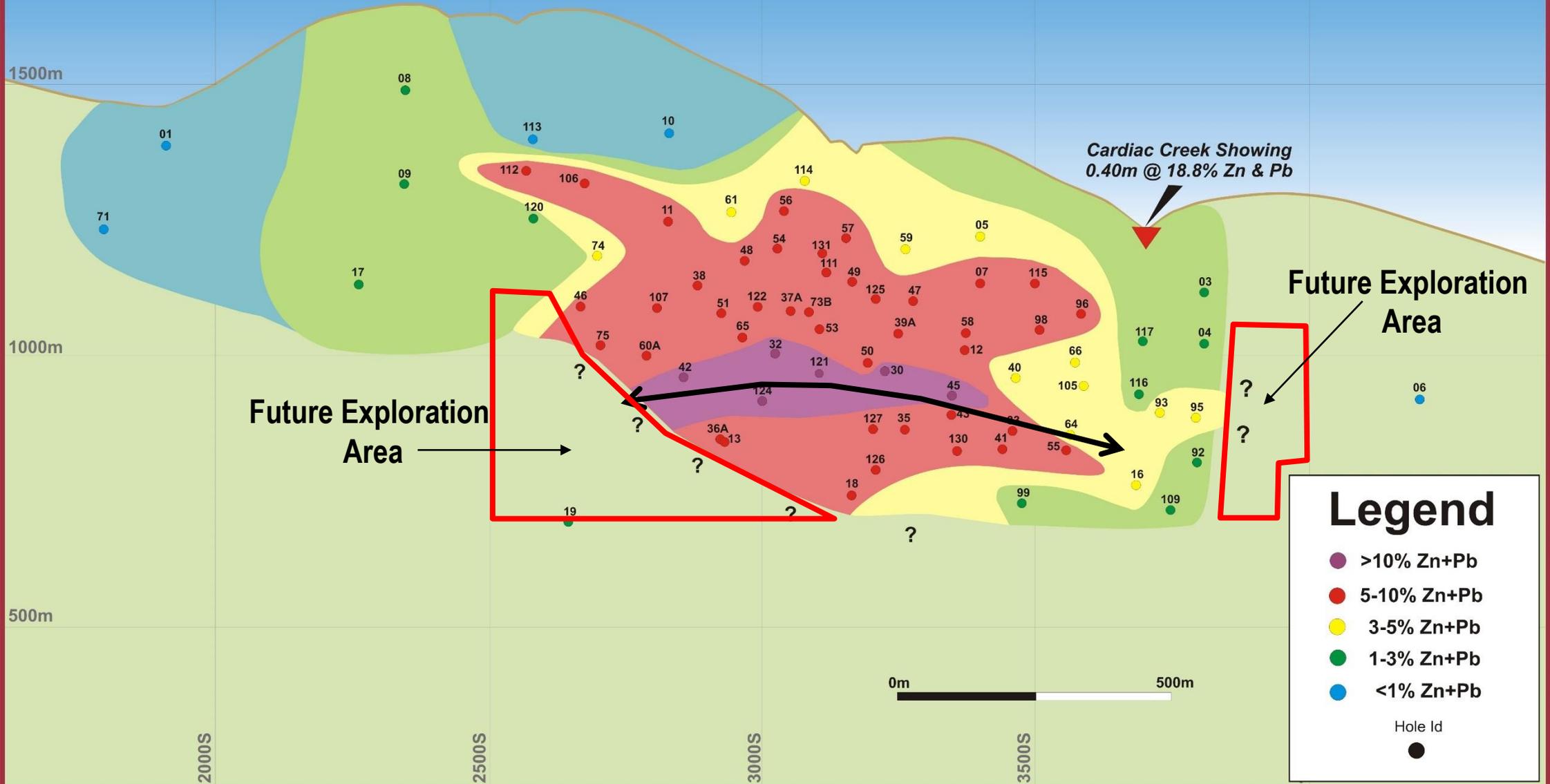
Hole Id  
●

NW

SE



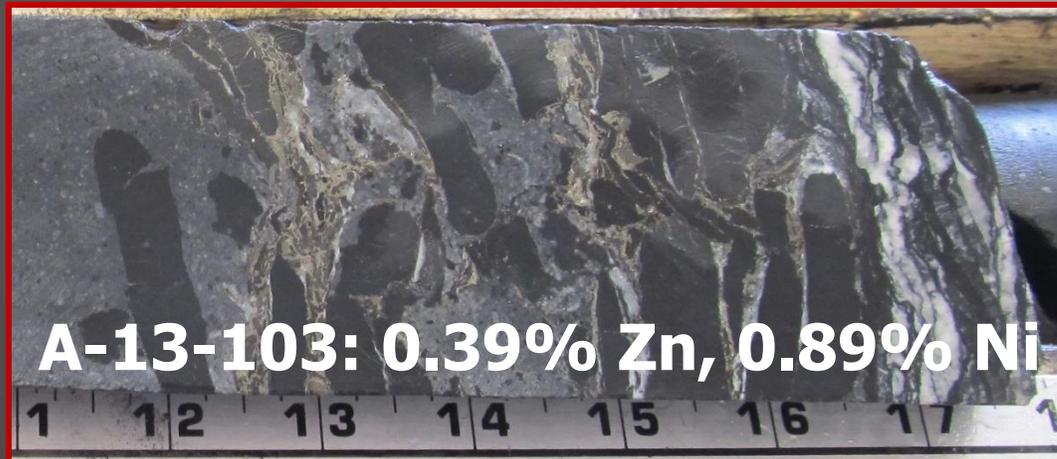
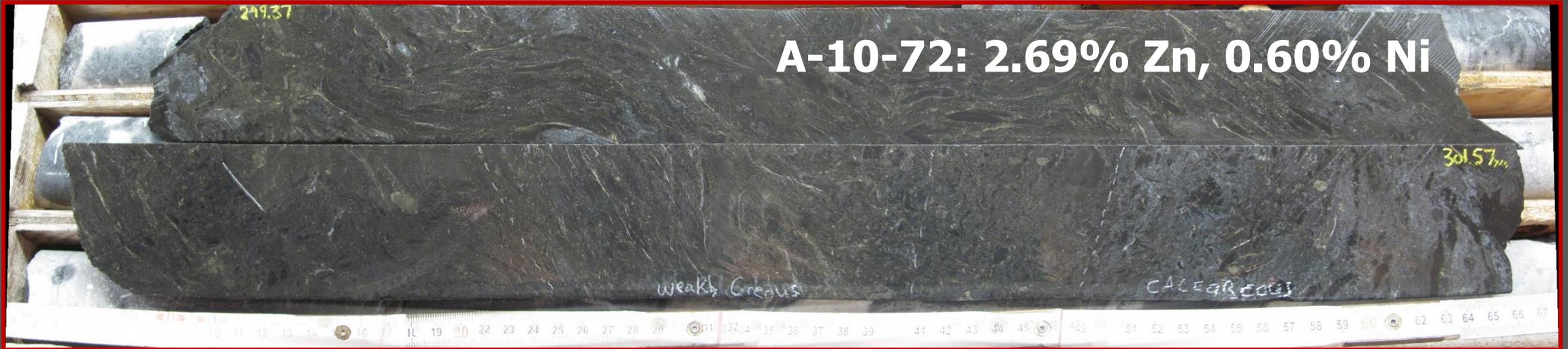
# 1% Zn Envelope, Zn+Pb Grades Across the CCZ and FW Zones



### Legend

- >10% Zn+Pb
- 5-10% Zn+Pb
- 3-5% Zn+Pb
- 1-3% Zn+Pb
- <1% Zn+Pb
- Hole Id

# Nick-style Mineralisation



- New style of mineralisation in the Kechika Trough
- Diverse Multi-element signature :  
Pb, Zn, Ni, U, V, P, La, Cr, Se.
- A total of 9 occurrences currently recognized on the Akie property
- Situated at base of limestone, in debris flow and siliceous shales of Paul River formation.
- Variable thickness up to 1.17m

W

E



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# Schematic of Depositional Setting of Mineralisation on the Akie Property

## LEGEND

### EARN GROUP

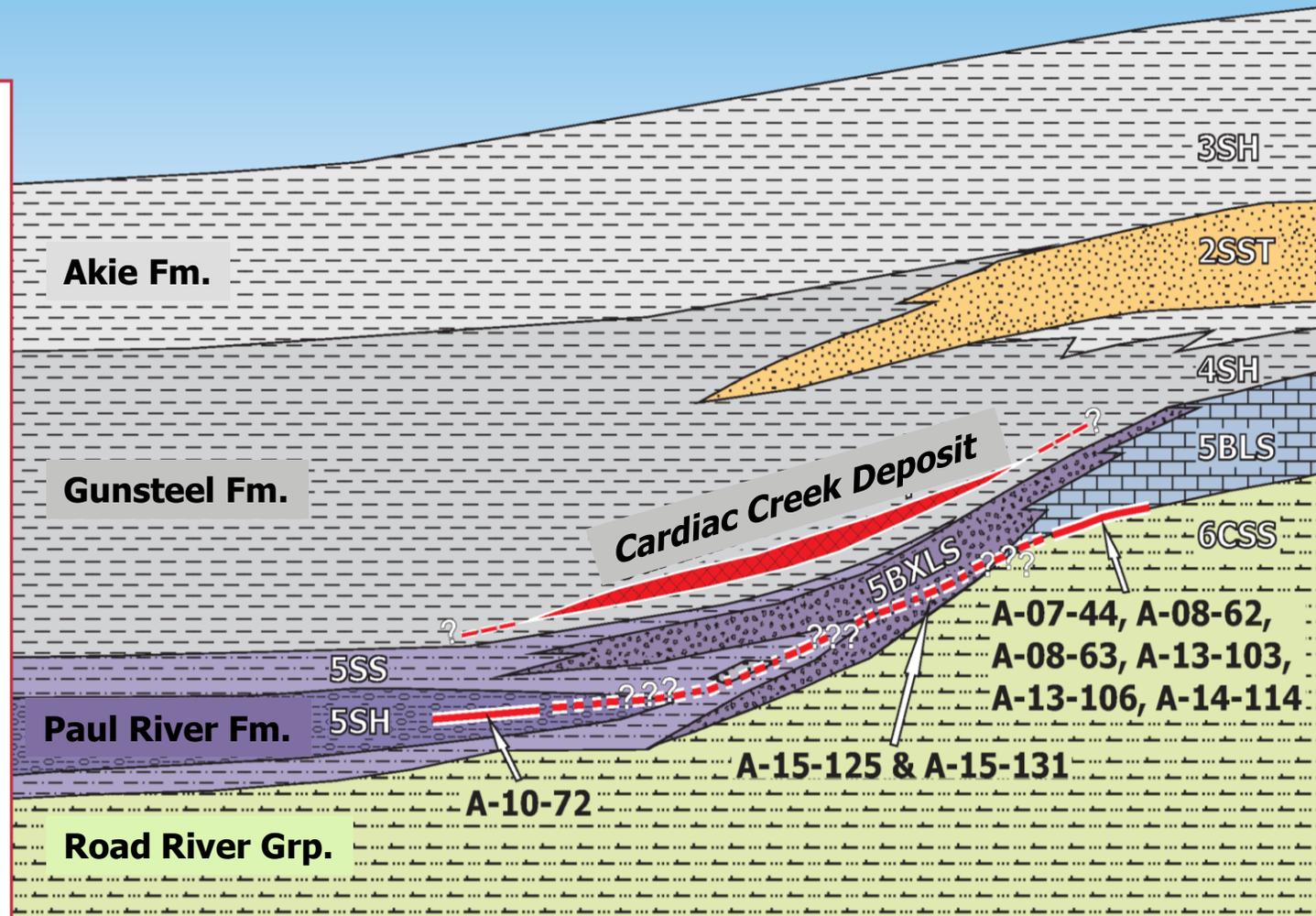
-  Warneford Fm.  
Siltstone to Sandstone
-  Akie Fm.  
Soft Shale
-  Gunsteel Fm.  
Siliceous Shale
-  Cardiac Creek Deposit

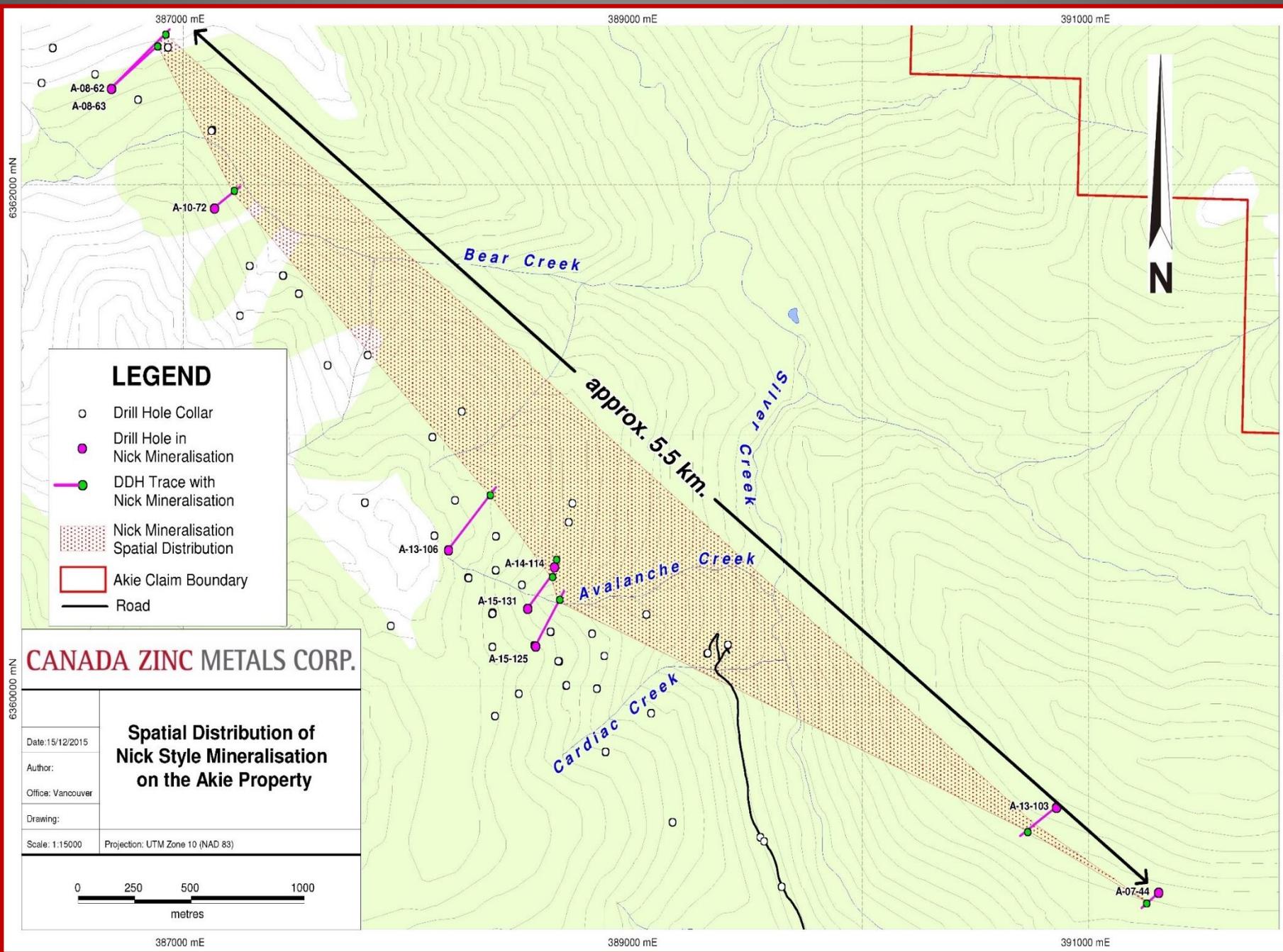
### PAUL RIVER Fm.

-  Fossiliferous Limestone
-  Debris Flow
-  Turbiditic Shale
-  Cherty Shale

### ROAD RIVER GRP.

-  Calcareous Siltstone
-  Nick-Style Mineralisation





**LEGEND**

- Drill Hole Collar
- Drill Hole in Nick Mineralisation
- DDH Trace with Nick Mineralisation
- ▨ Nick Mineralisation Spatial Distribution
- ▭ Akie Claim Boundary
- Road

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**Spatial Distribution of Nick Style Mineralisation on the Akie Property**

Date: 15/12/2015  
 Author:  
 Office: Vancouver  
 Drawing:  
 Scale: 1:15000    Projection: UTM Zone 10 (NAD 83)

0    250    500    1000  
 metres

6362000 mN

6360000 mN

6362000 mN

6360000 mN

387000 mE

389000 mE

391000 mE

387000 mE

389000 mE

391000 mE

A-08-62  
A-08-63

A-10-72

A-13-106

A-14-114

A-15-131

A-15-125

A-13-103

A-07-44

Bear Creek

Silver Creek

Avalanche Creek

Cardiac Creek

approx. 5.5 km.

N



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**Thank You**

**Please visit us at the Coreshack, Booth 821  
today & tomorrow, 27 & 28 Jan. 2016**