



TSXV: NAR

**North Arrow**  
MINERALS INC.

Canada's Most Active  
Diamond Explorer

*February 2018*



# CAUTIONARY STATEMENT

**North Arrow**

MINERALS INC.

**Forward  
Looking  
Information**

This presentation contains projections and forward looking information that involve various risks and uncertainties, including, without limitation, statements regarding the potential extent of mineralization, resources, reserves, exploration results and plans and objectives of North Arrow Minerals Inc. These risks and uncertainties include, but are not restricted to, the amount of geological data available, the uncertain reliability of drilling results and geophysical and geological data and the interpretation thereof and the need for adequate financing for future exploration and development efforts. There can be no assurance that such statements will prove to be accurate. Actual results and future events could differ materially from those anticipated in such statements. These and all subsequent written and oral forward-looking statements are based on the estimates and opinions of management on the dates they are made and are expressly qualified in their entirety by this notice. The Company assumes no obligation to update forward looking statements should circumstances or management's estimates or opinions change.

**Qualified  
Person under  
NI 43-101**

Disclosure of a scientific or technical nature related to North Arrow's projects in this presentation has been reviewed and approved by Ken Armstrong, P.Geo. President and CEO of North Arrow and a Qualified Person under NI 43-101.



## North Arrow

MINERALS INC.

### Corporate Highlights

#### ■ Capitalization

Listing:	TSX Venture – NAR
Issued:	76.2 M
Options:	6.5 M
Warrants:	21.0 M <small>(20 M at \$0.40)</small>
Fully diluted:	103.7 M
Estimated Working Capital:	~\$2.2 M

#### ■ Main Shareholders

Management and Directors	~15.7%
Zebra Holdings and Investments	~12.5%
Electrum Strategic Opportunities Fund	~10.5%
Ross Beaty	~10.5%



# CORPORATE OVERVIEW - PEOPLE

**North Arrow**  
MINERALS INC.

## Management Highlights

**D. Grenville Thomas (Chairman)** Founder of Aber (now Dominion Diamond), discoverer of the Diavik Diamond Mine. 2009 Canadian Mining Hall of Fame inductee.

**Ken Armstrong P.Geo.(ON) (President, CEO, Director and Qualified Person under NI 43-101)** Diamond exploration and evaluation experience with Diavik, Aber, De Beers, Navigator, and Stornoway.

**Christopher Jennings (Director)** Founder of SouthernEra, consultant to Aber; formerly with International Corona Corp., BP Minerals (Canada) and Falconbridge.

**Blair Murdoch (Director)** More than thirty years experience in senior management of private and public companies.

**Eira M. Thomas (Advisor)** Extensive diamond exploration and development experience in Canada and Africa. Former officer and director of Aber; founder of Lucara and Stornoway. Currently director of Suncor and Lucara.

**William Lamb (Advisor)** President and CEO of Lucara, 20+ years project development experience with Lucara, De Beers, Kvaerner and Rand Mines.

**Allison Rippin Armstrong (Advisor)** 20+ years CSR experience.



# CORPORATE OVERVIEW – PROJECTS

## North Arrow

MINERALS INC.

### Advanced Stage

Assessing a known kimberlite or diamond deposit

1. Naujaat (100%) *diamond results pending; 2018 drilling & bulk sample*

### Discovery Stage

Next stage of diamond exploration could lead to discovery

- 1) Mel (100%) *2017 discovery; 2018 drilling*
- 2) Loki (100%) *March 2018 drilling*
- 3) LDG (JV w Dominion) *2018 drilling*
- 4) Pikoo (100%) *NAR discovery; pending tills*
- 5) Luxx (100%) *Permitted & drill ready*

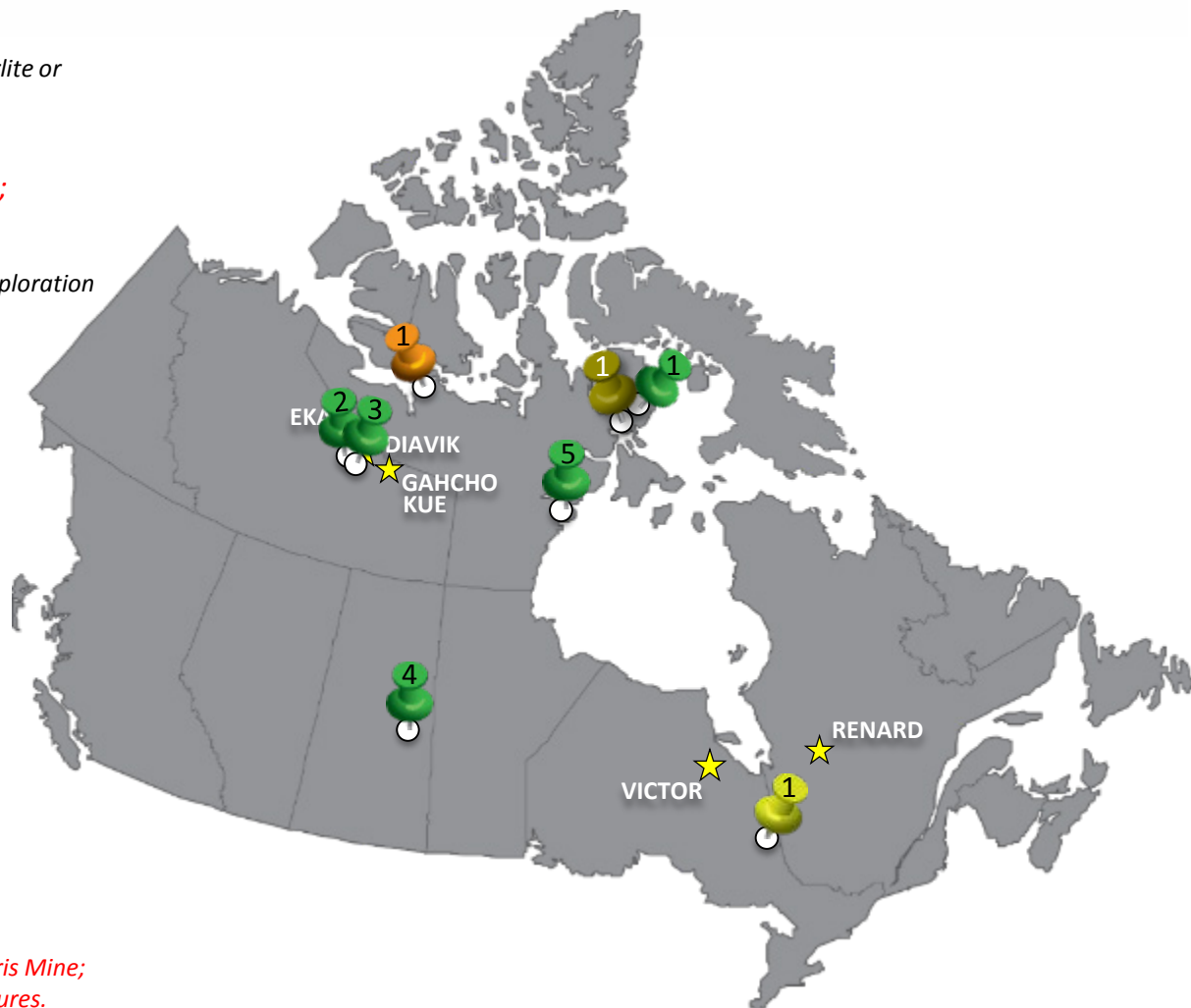
### Grassroots

Target development

1. Timiskaming (JV w SWY)

### Brownfields Gold

1. Hope Bay (100%) *Within 3km of TMAC's Doris Mine; similar geology and structures.*

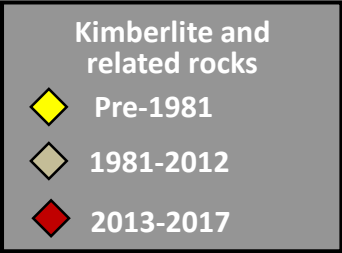




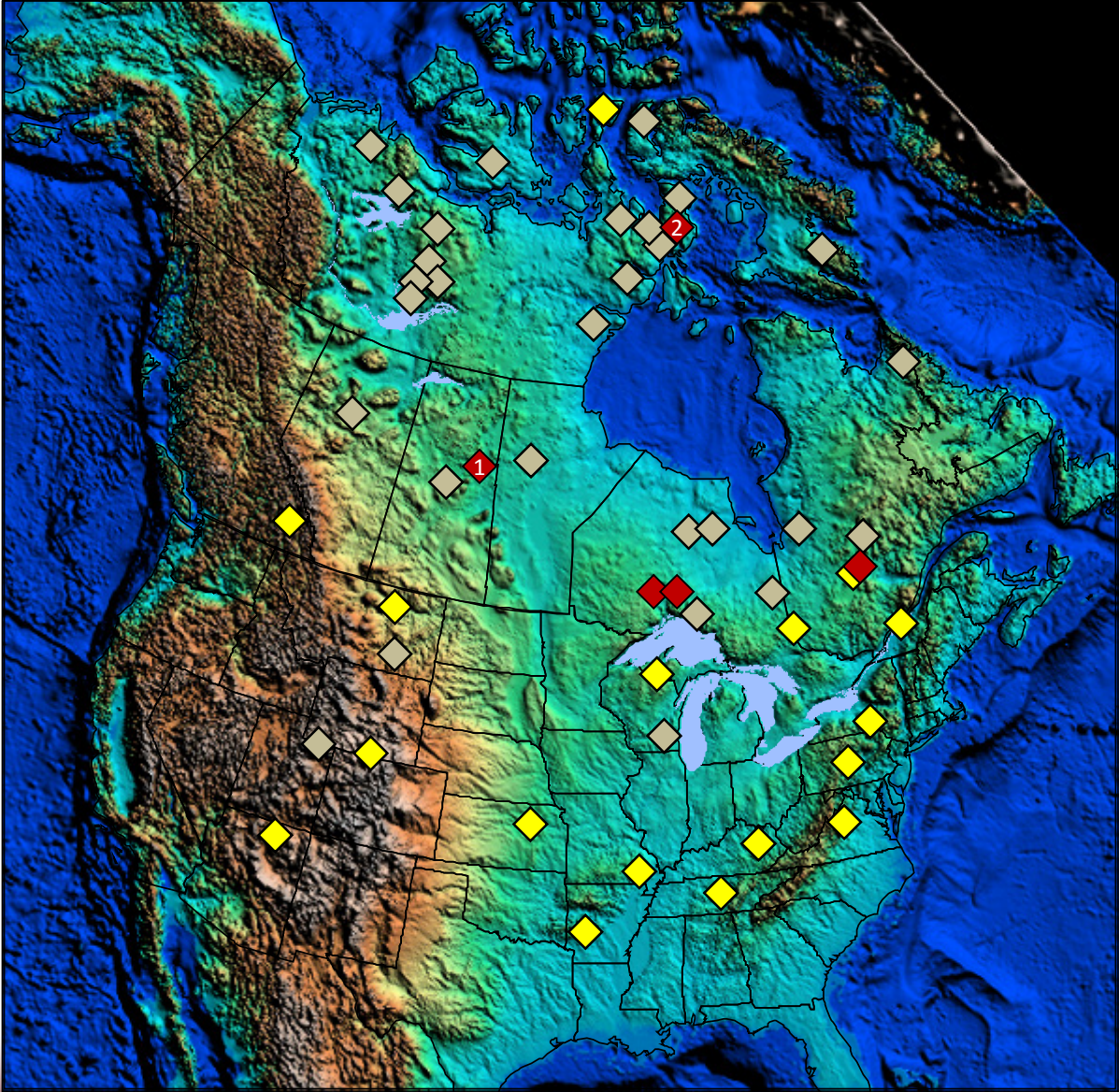
# DIAMOND DISCOVERIES: A CANADIAN LEADER



## North American Diamond Exploration



- Five kimberlite fields discovered in the last five years.
- North Arrow has made two of them; (1) Pikoo and (2) Mel.
- Both significantly diamondiferous







# DIAMOND DISCOVERIES: A CANADIAN LEADER

**North Arrow**  
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NAR: Canadian diamond sector's most active & successful explorer over the last 5 years

- Discovered two new kimberlite fields – Mel in 2017 & Pikoo in 2013
- One of Canada's largest under-evaluated diamond inventories at Naujaat's Q1-4 kimberlite (~26 million carats)
- 6 drill-ready (and fully permitted) diamond properties; including 4 that host known diamondiferous kimberlite – Naujaat, Mel, Pikoo and Loki
- Drilling planned for at least 4 of these 6 projects for 2018
- Diamond results pending for 2017 work at Naujaat





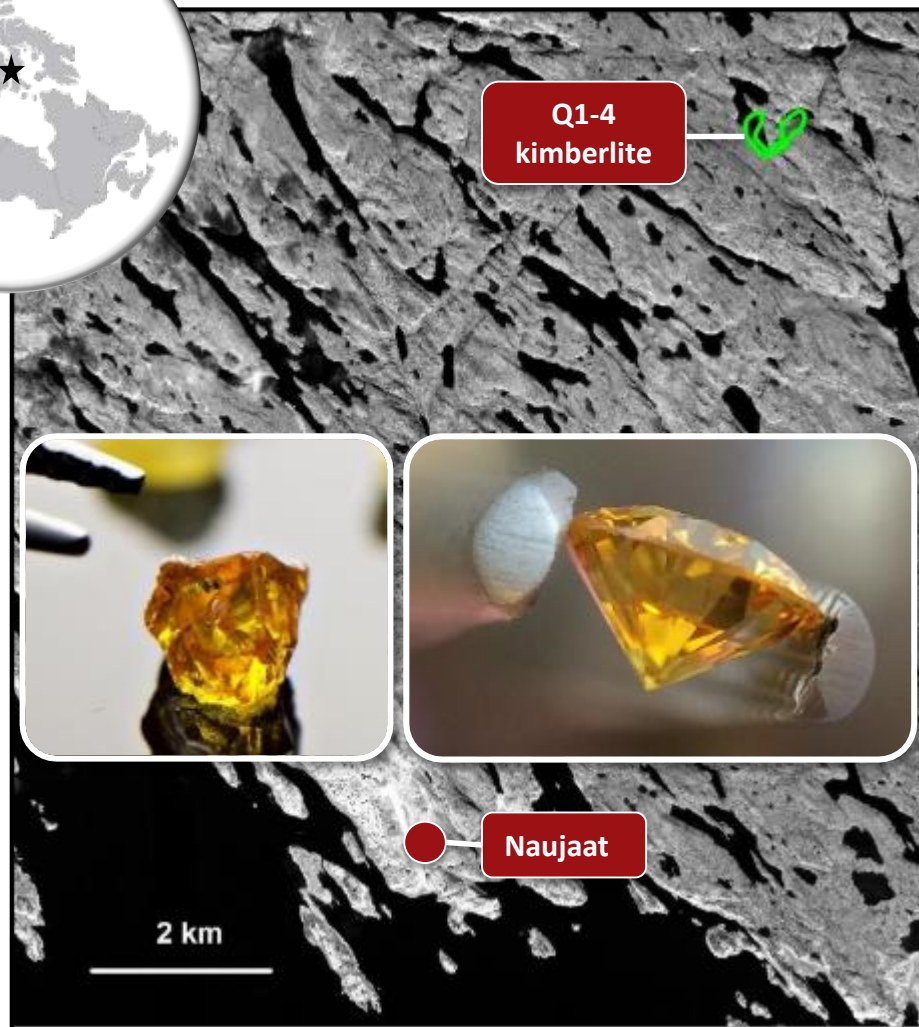
# NAUJAAT PROJECT – TICKS ALL THE BOXES

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- ✓ **Jurisdiction**
- ✓ **Near tide water**
- ✓ **Large tonnage**
- ✓ **Good inferred resource\* grade**
- ✓ **Blue sky potential**
- ✓ **Low strip ratio**

**Unique diamond value proposition**



\* CAUTION – Mineral Resources are not Mineral Reserves and do not have demonstrated economic viability





# VALUING ORANGY YELLOW DIAMONDS

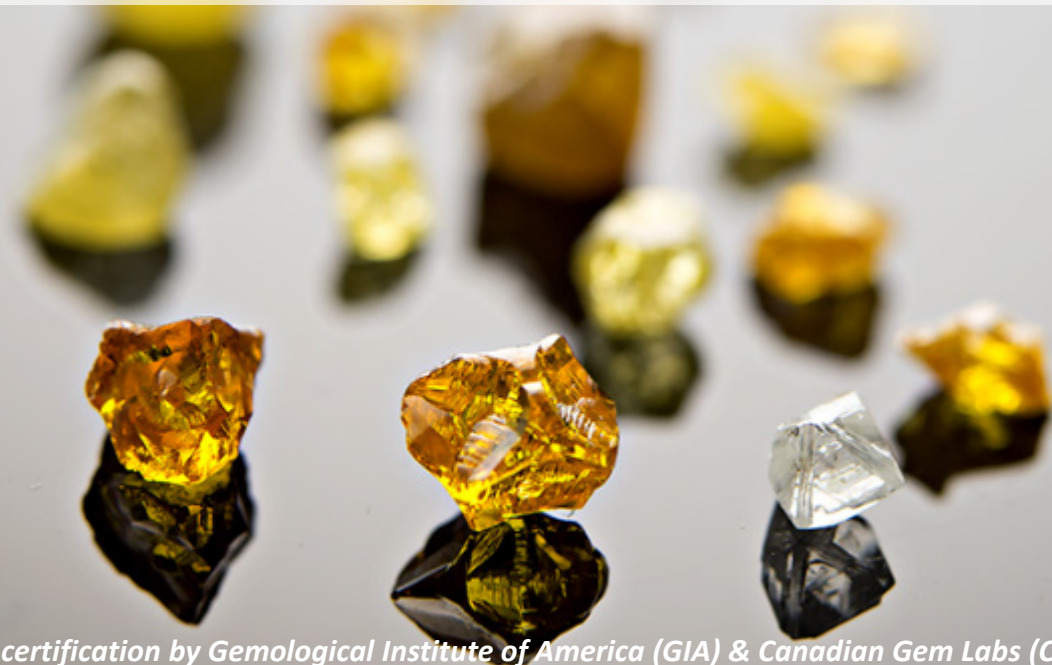
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Q1-4 contains a unique population of valuable fancy orangy yellow diamonds

## Polishing and Valuation

- **Certified\* fancy orangy yellow diamonds - desirable to the gem/jewelry trade**
- **Round brilliant cuts - maximize brilliance with no impact on colour**
- **'Fancy Vivid' colours – highest & most valuable colour saturation**



**HIGHER VALUE**  
*Fancy coloured diamonds can be valued at a premium to white diamonds of comparable size, cut and clarity.*

***More diamonds needed***

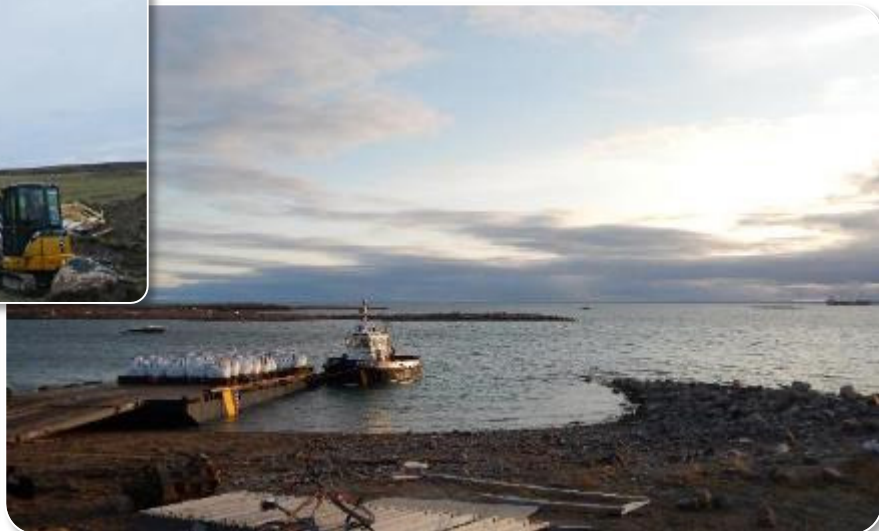
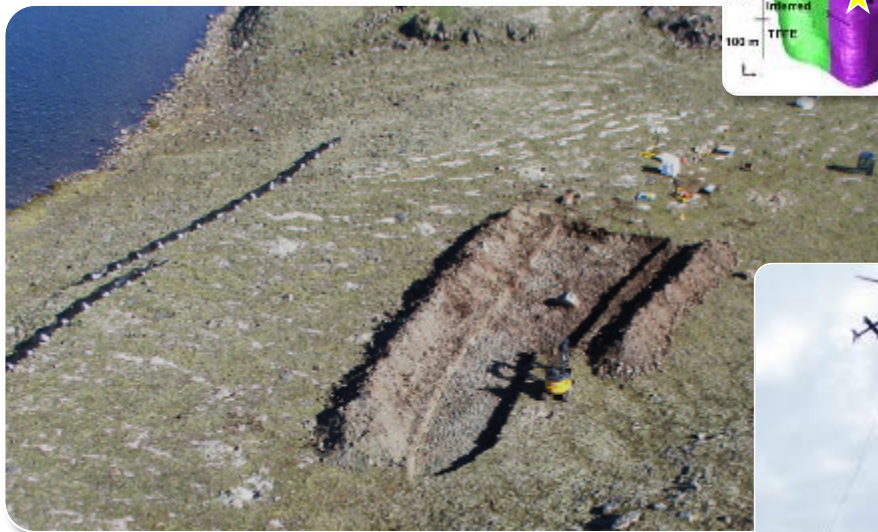
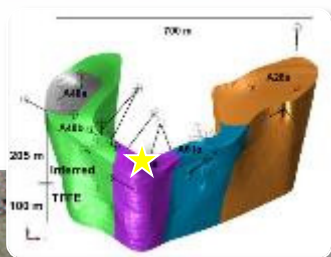
***Significant potential upside for Q1-4 prices.***

\*colour certification by Gemological Institute of America (GIA) & Canadian Gem Labs (CGL)



# Q1-4: 2017 MINI-BULK SAMPLE

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# Q1-4: 2017 DRILLING & SAMPLING

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- 236 wet tonne sample – diamond results pending
- 3,469 m drilled in 11 holes (2,440m of kimberlite)
- Size/extent of Q1-4 at depth (205 m to 305 m) confirmed
- Potential to upgrade TFFE and add significant mineral resources below 205m
- >10,000 kg kimberlite core sampled for microdiamonds, mineral chemistry & petrography to support a new geological model
- Planning/permitting for ~10km access road
- **2018 drilling**, bulk sampling, road permitting/construction





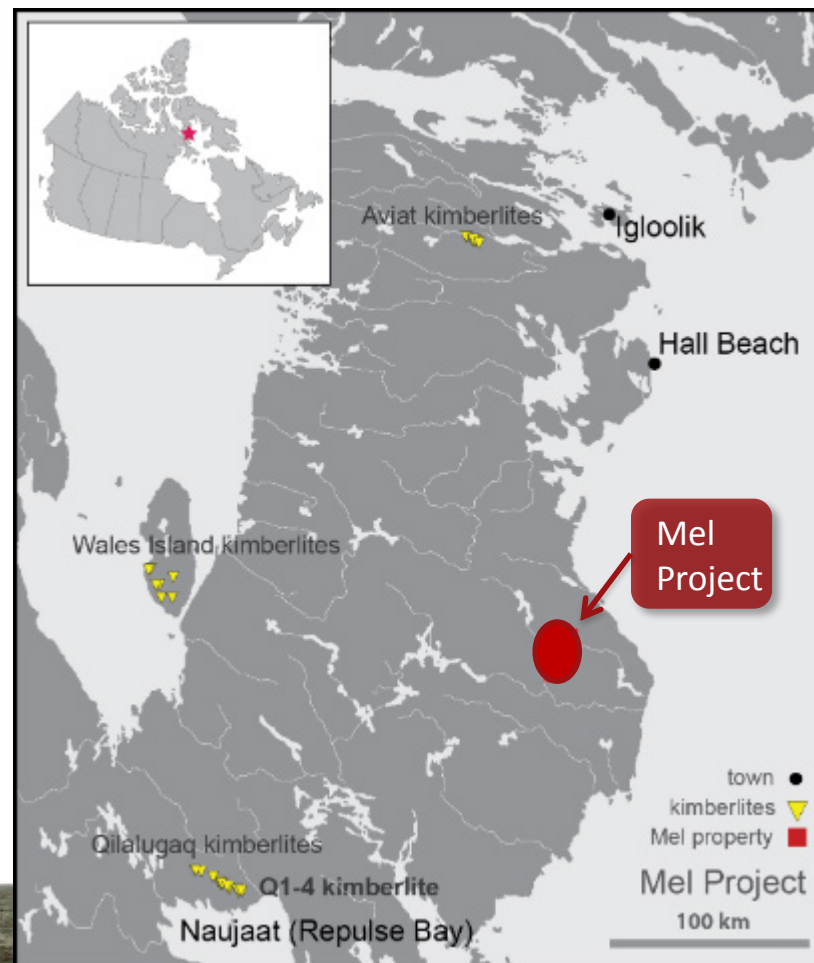


# MEL – NEW CANADIAN DIAMOND DISCOVERY

## North Arrow

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- East central Melville Peninsula.
- 18 km from ocean; 140 km south of Hall Beach; 210 km northeast of Naujaat
- **Kimberlite (& Diamonds!) discovered September 2017**; Discovery cost of ~\$800,000
- 2018 drilling – all permits in place
- Property expanded to >56,000 ha





# MEL NORTH EXPLORATION: 2013 to 2017

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At least three distinct indicator trains

Pre-2013:

- Up to ~10 KIMs

2013 & 14:

- Extended Train up ice; up to 23 KIMs

2015:

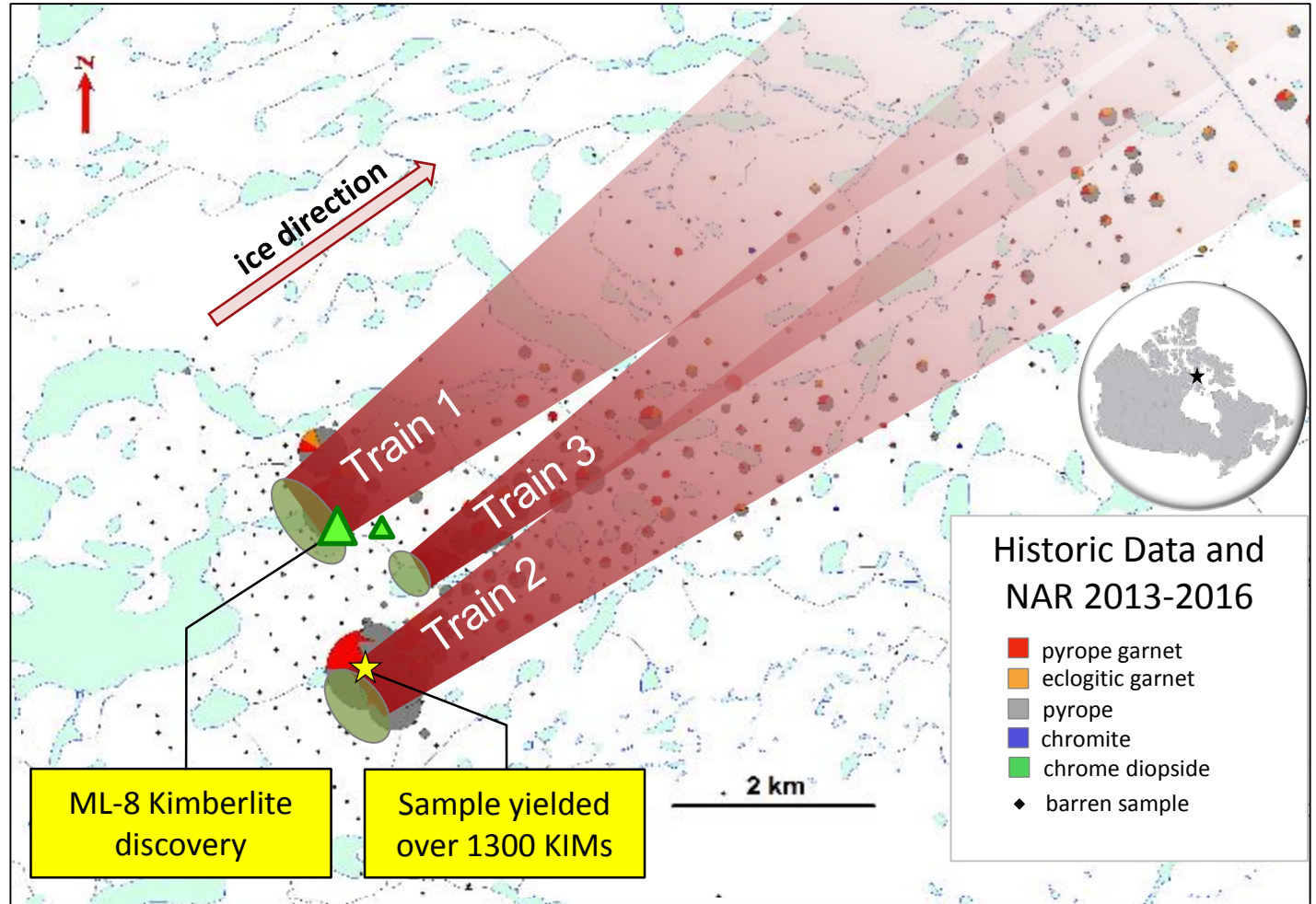
- >200 samples
- Up to +200 KIMs

2016:

- 111 samples.
- Train is cut-off
- +1,300 KIMs means close to source!

2017:

- Discovery of ML-8 kimberlite**







# ML-8 KIMBERLITE DISCOVERY

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100 m long by  
10 m wide  
area with  
float in moss  
& boulder  
piles





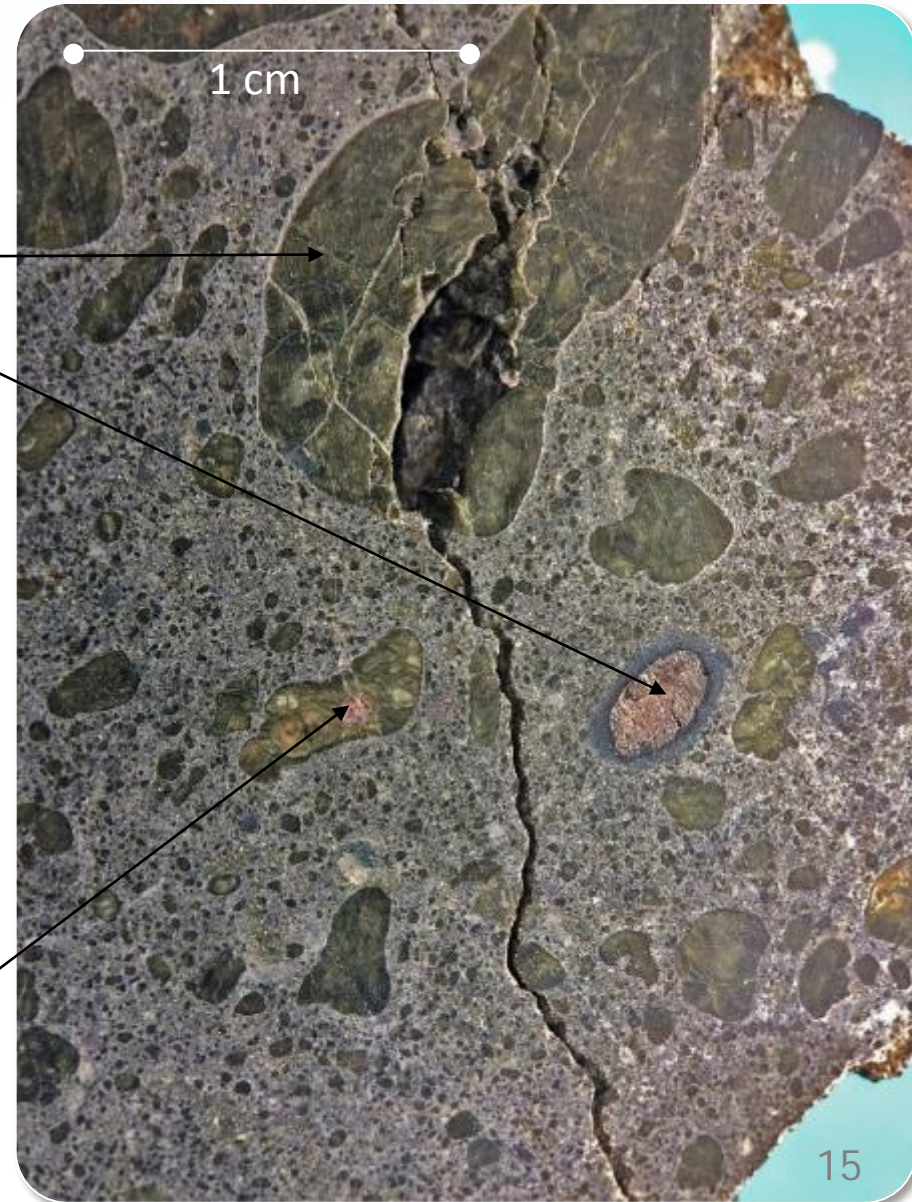
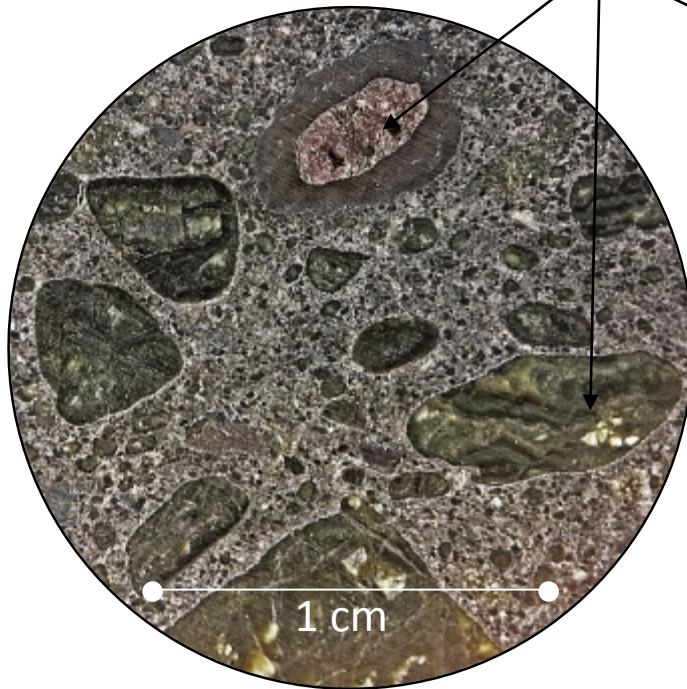


# ML-8 KIMBERLITE – POLISHED HAND SAMPLES

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Garnet & Olivine  
Macrocrysts



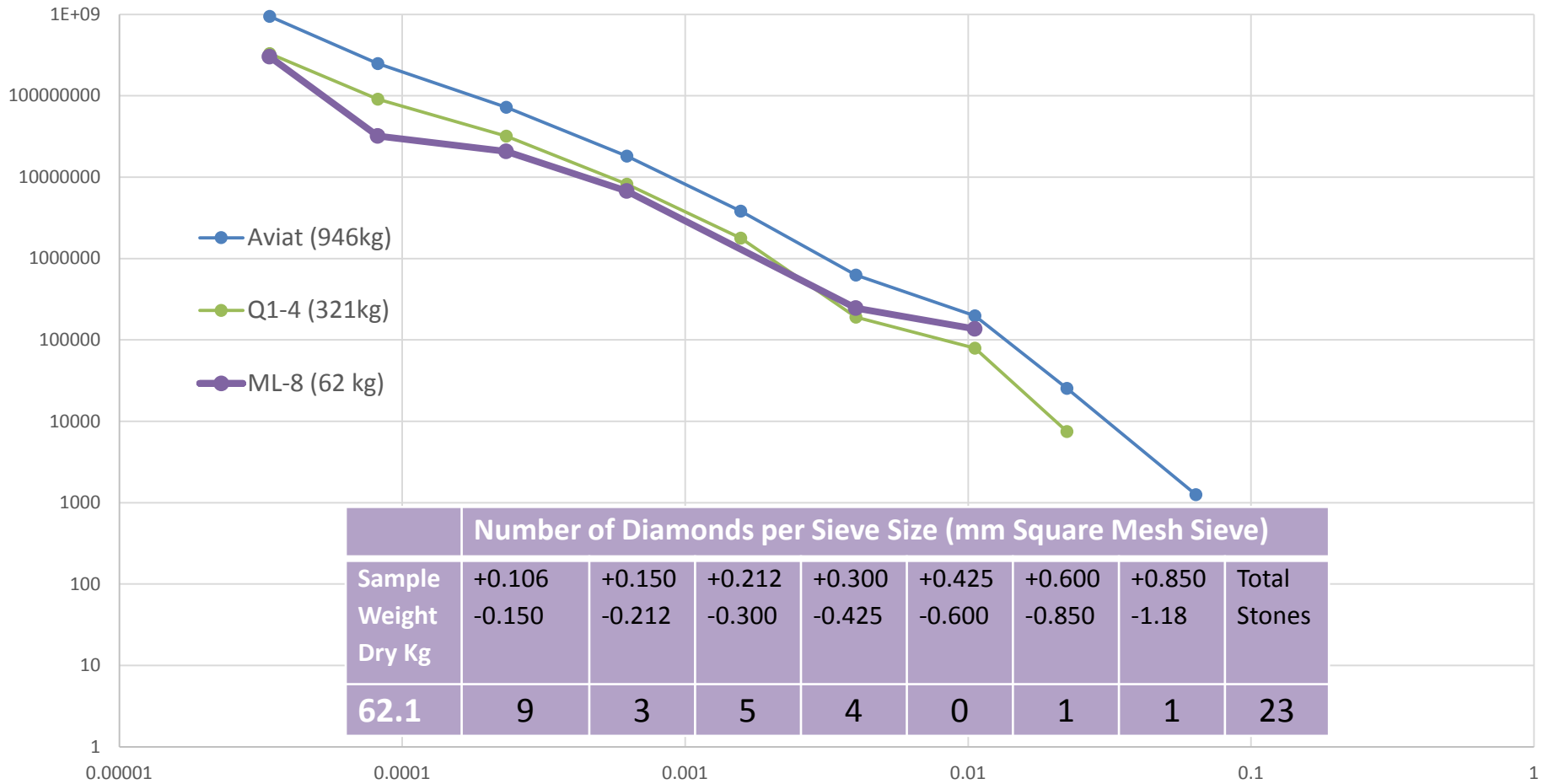
Micro-xenolith: garnet in  
olivine macrocryst



# ML-8 MICRODIAMOND RESULTS COMPARISON

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Mel Project: ML-8 Kimberlite SPTUI\* vs Aviat (AV-1) and Q1-4





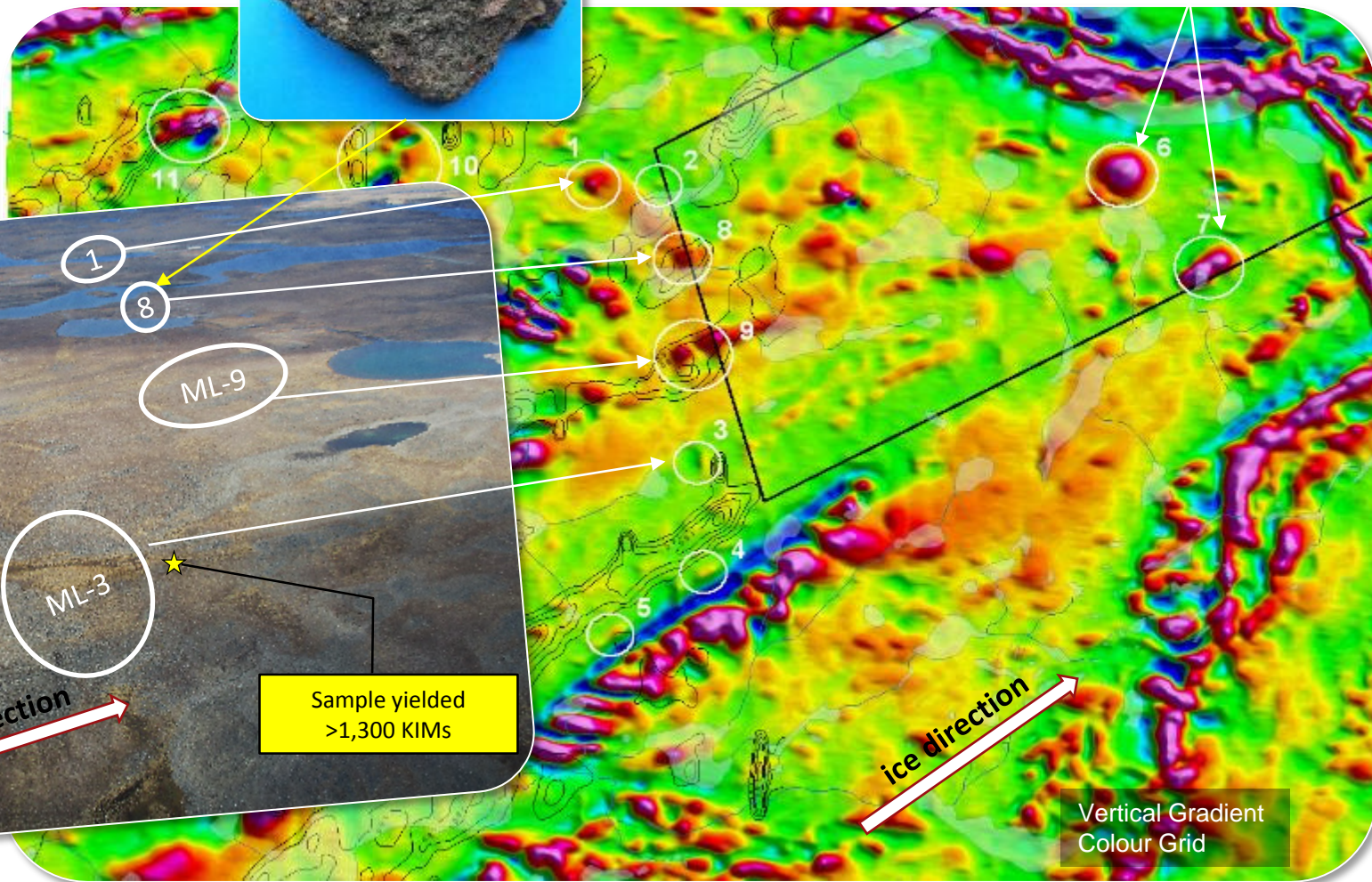


# MEL - 2018 POTENTIAL DRILL TARGETS

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ML6 and ML7: large  
"Pipe"-like targets







# MEL PROJECT – PROXIMITY TO TIDE WATER!

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# LAC DE GRAS PROPERTIES

## North Arrow

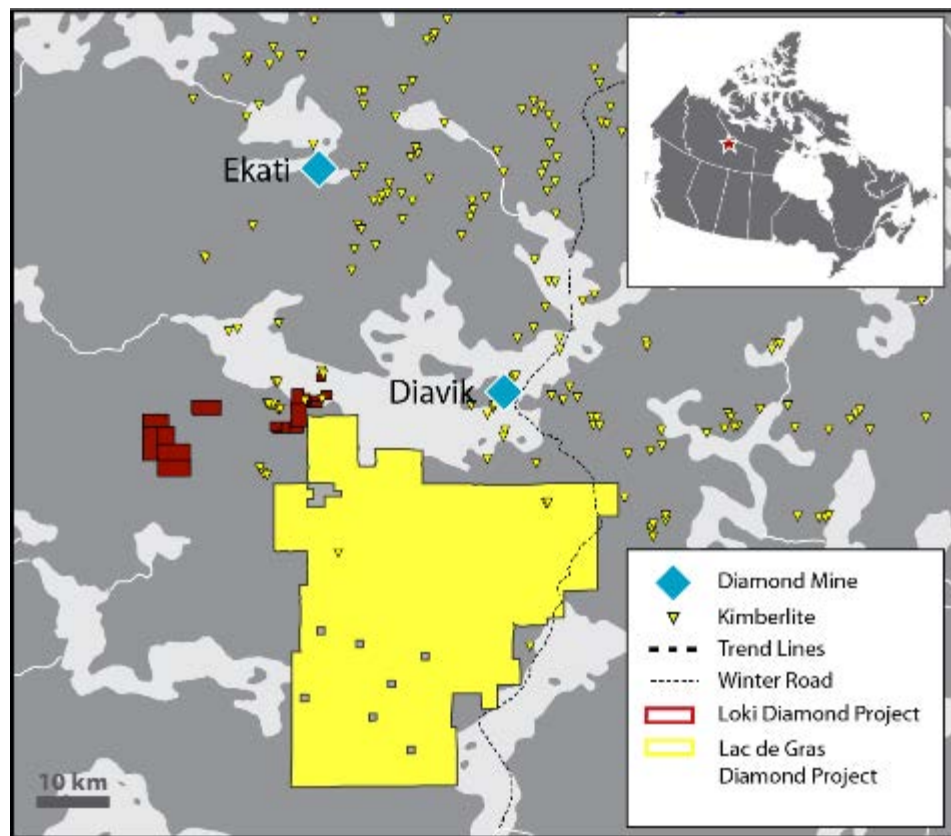
MINERALS INC.

### Loki Property

- 8,607 ha; 100% NAR
- 5 kimberlites - assessment of size & diamond content required
- **March 2018 drill program** - kimberlite discovery and kimberlite evaluation
- Drill EG-05 kimberlite
- Drill targets near Monument kimberlites
- Drill targets assoc. with unsourced KIMs

### Lac de Gras (LDG) Property

- Joint Venture with Dominion Diamond
- 147,200 ha south of Diavik & Ekati
- 3 known kimberlites
- 2017: 22 ground geophysical survey grids plus >5,000 line km heli-mag/EM survey
- **Spring 2018 drill program** – focus on kimberlite discovery



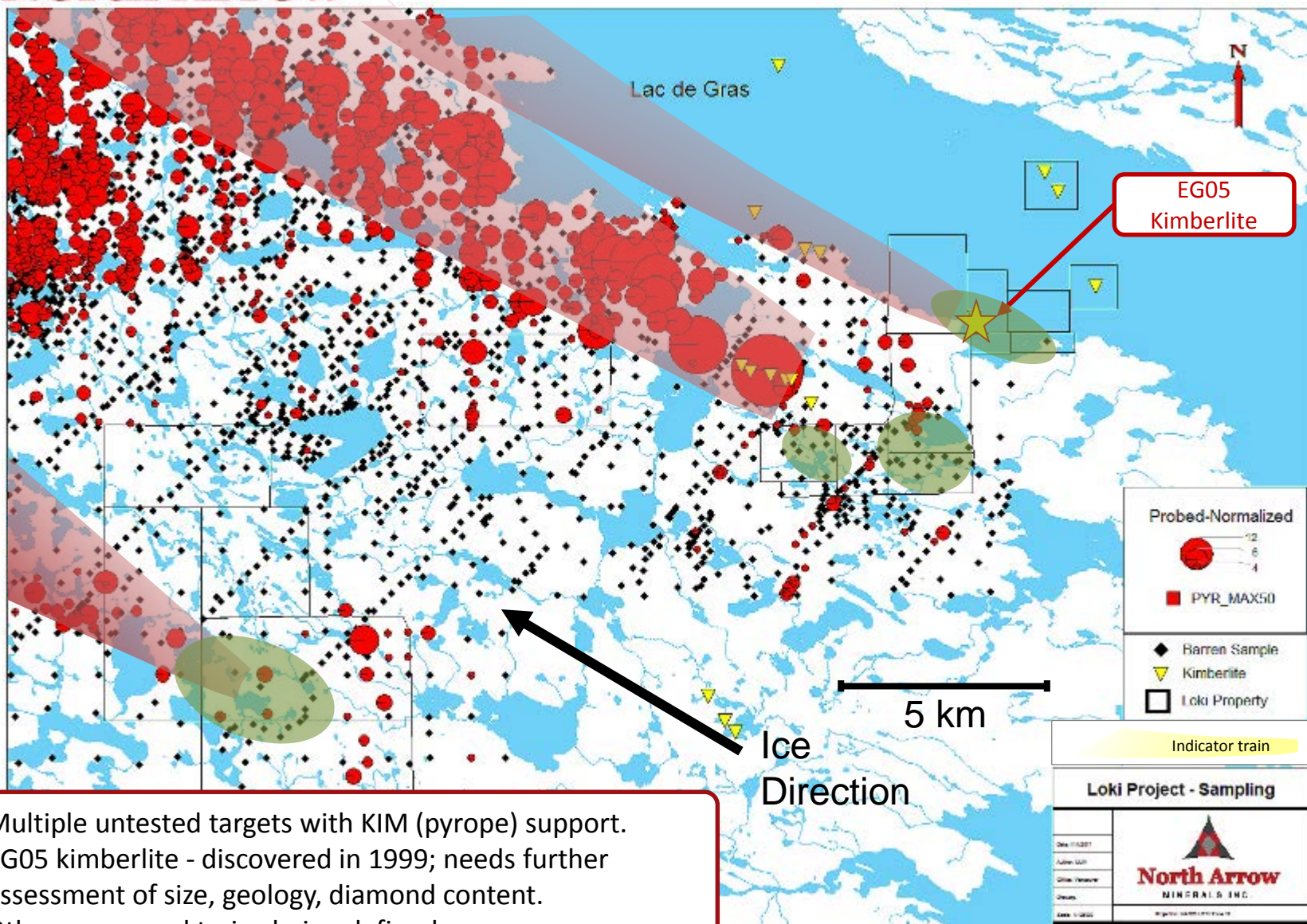
**2018 Goal: New kimberlite discoveries at both Loki & LDG**





# LAC DE GRAS PROPERTIES – LOKI PROJECT

## North Arrow



- Multiple untested targets with KIM (pyrope) support.
- EG05 kimberlite - discovered in 1999; needs further assessment of size, geology, diamond content.
- Other unsourced trains being defined.



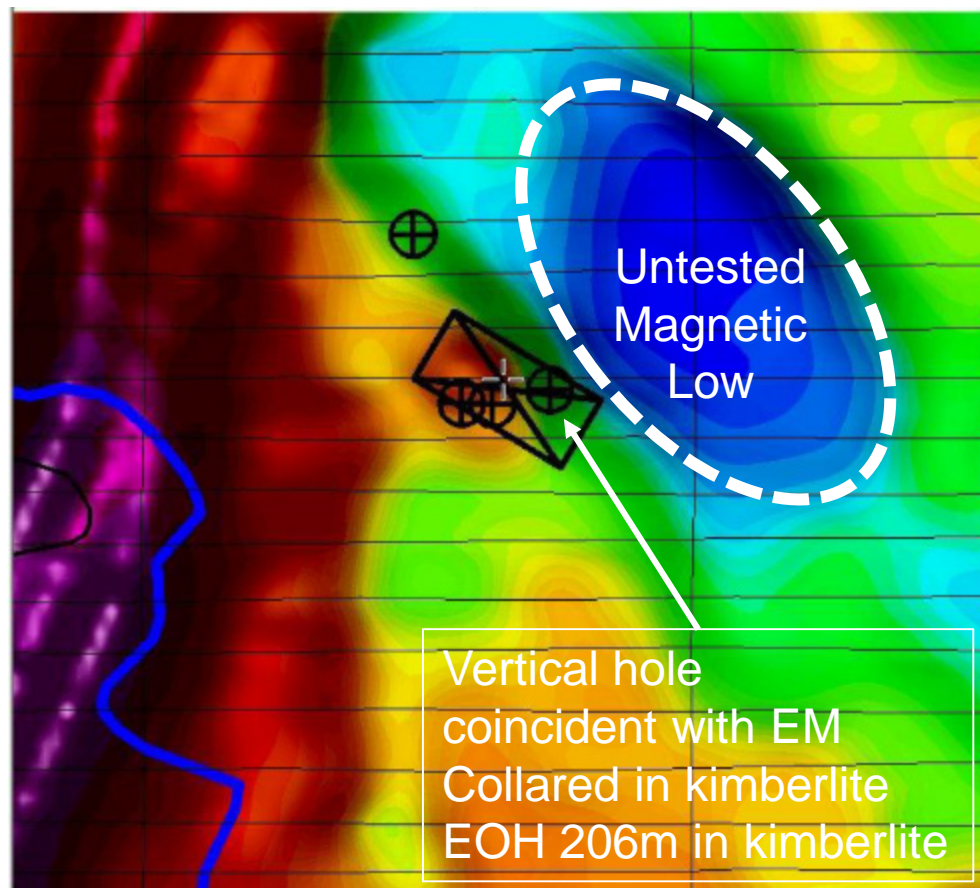
# LOKI – EG05 KIMBERLITE

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- Discovered in 1999
- Unconstrained: No pipe contacts in 3 discovery drill holes
- Diamondiferous: 28 microdiamonds from 129.4kg

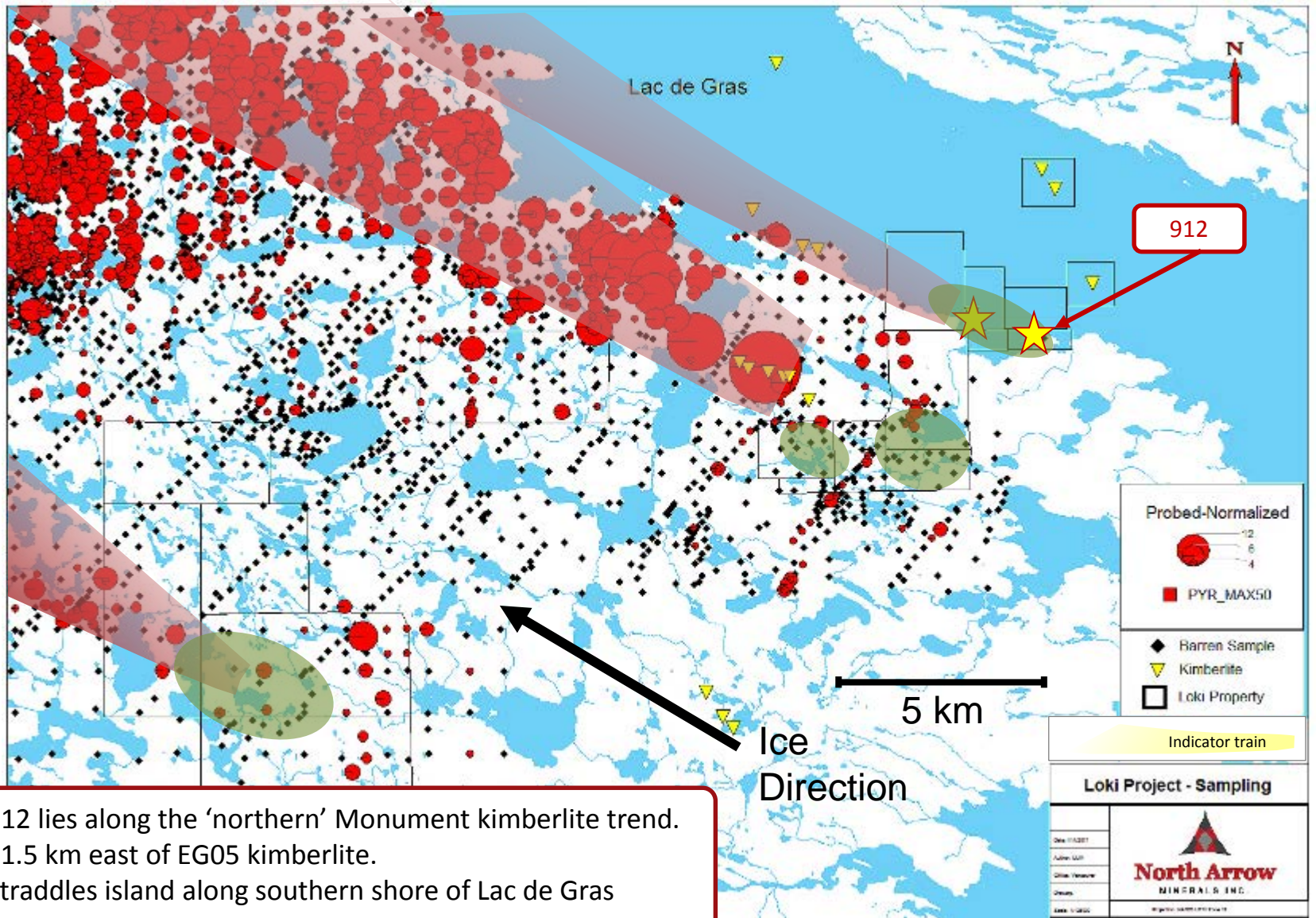
- Previous drilling only tested EM anomaly (rectangle)
- Kimberlite in 3 of 4 drill holes (3 southern holes on adjacent image)
- All 3 ended in kimberlite
- Magnetic low NE of EM anomaly remains untested
- Possible untested phase of EG05 that needs to be assessed.





# TARGET 912 LOCATION

## North Arrow



- 912 lies along the 'northern' Monument kimberlite trend.
- ~1.5 km east of EG05 kimberlite.
- Straddles island along southern shore of Lac de Gras

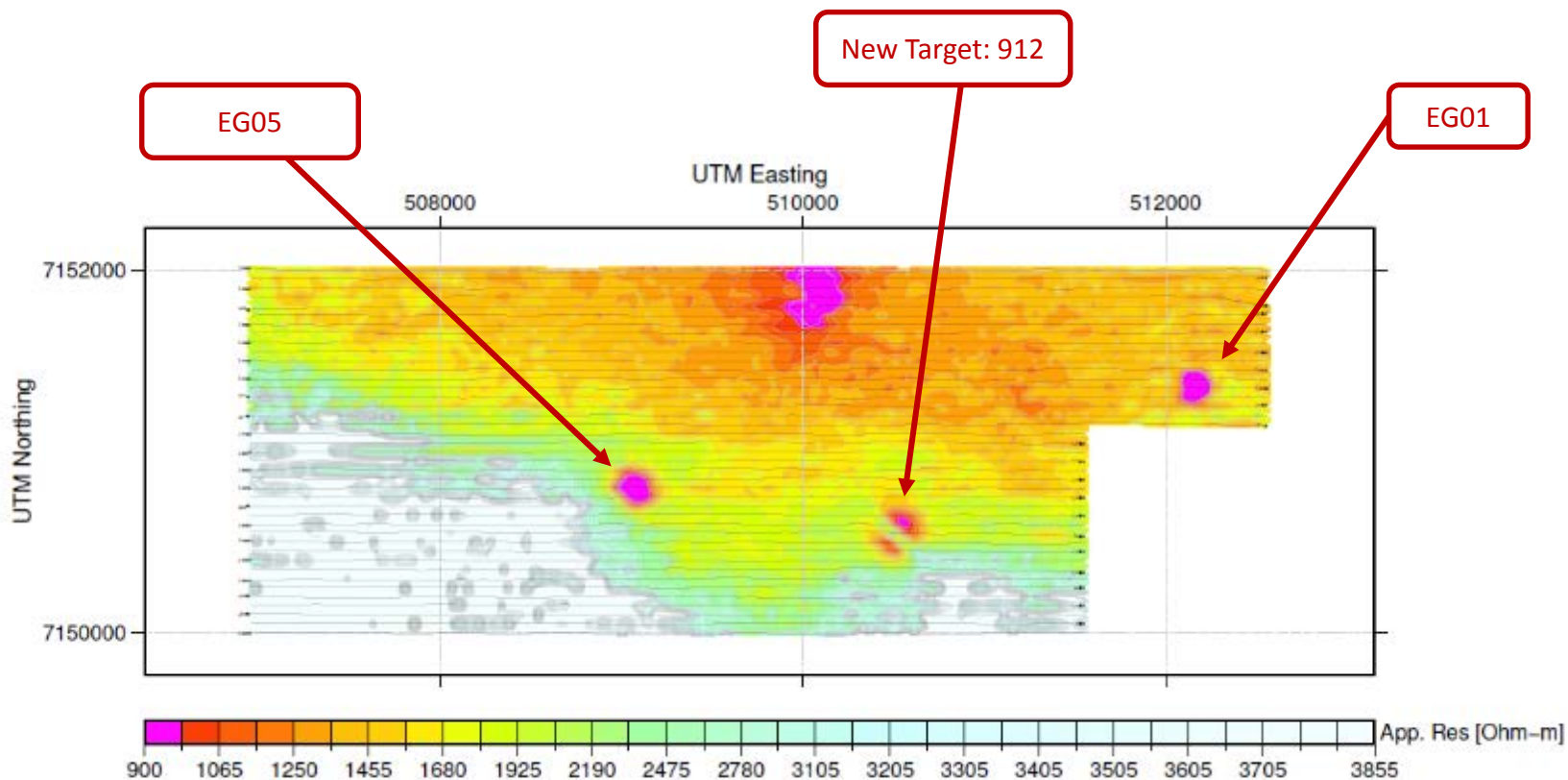


# LOKI – VTEM SURVEY EG05, EG01 & 912

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VTEM RDI: Resistivity Depth Slice at 125m of depth







# Mag/EM PROFILES OF 912 vs KIMBERLITES

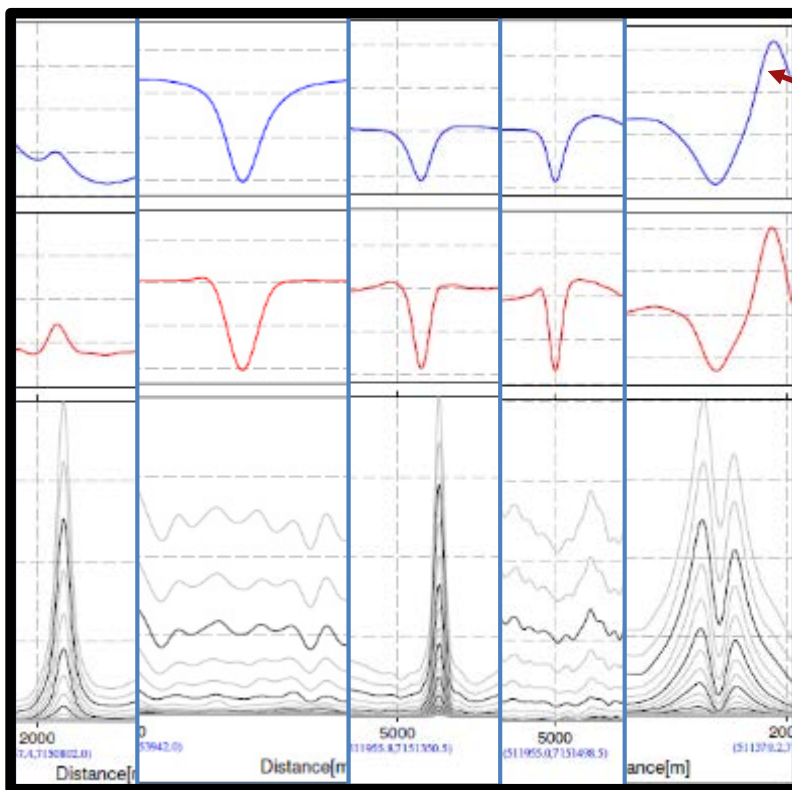
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Profiles of 5 known Lac de Gras kimberlites

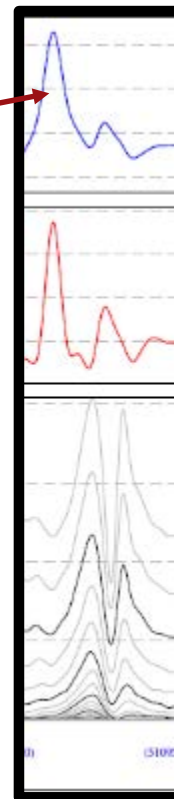
Target 912

Magnetic Profiles

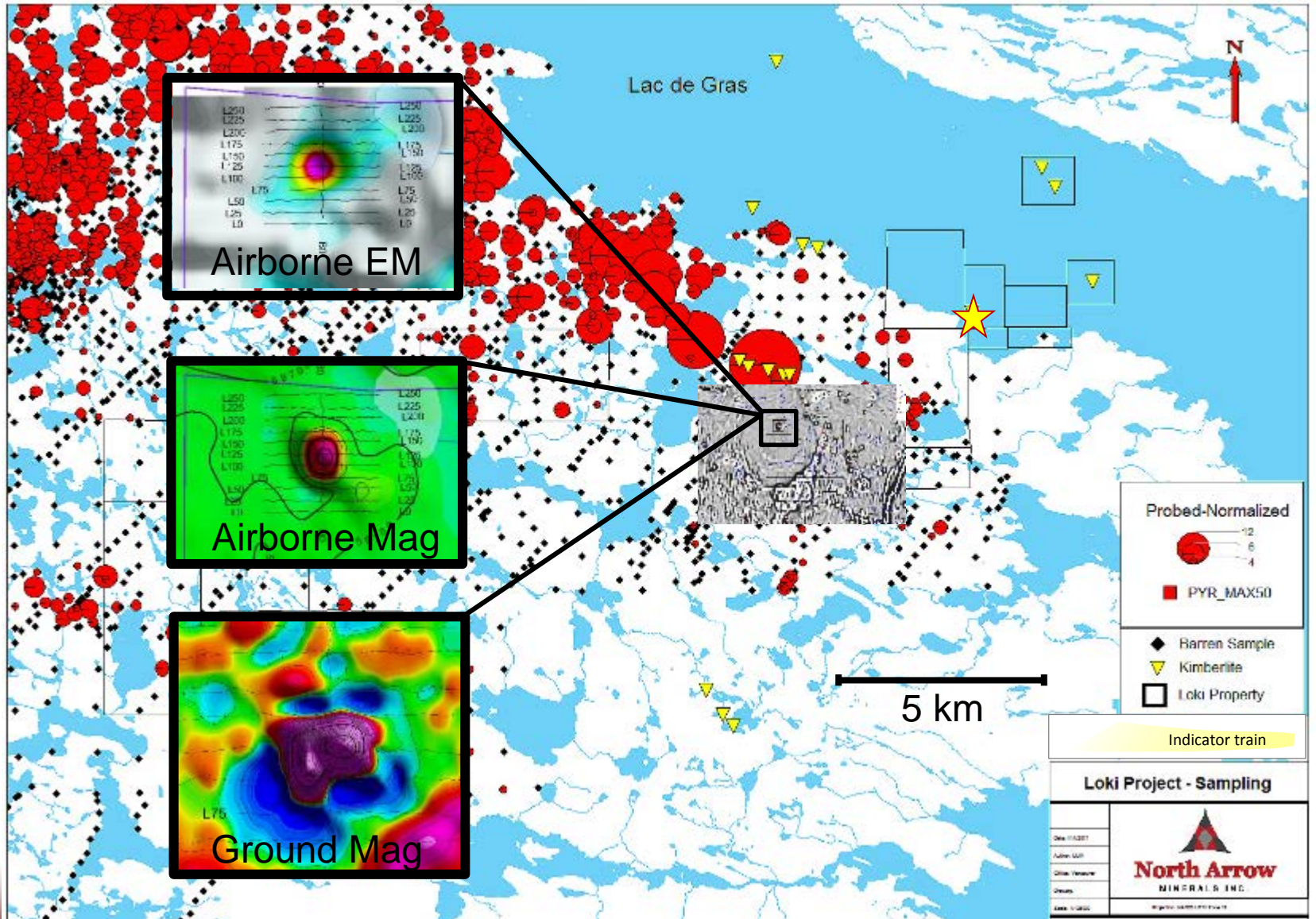
EM Profiles



Diabase



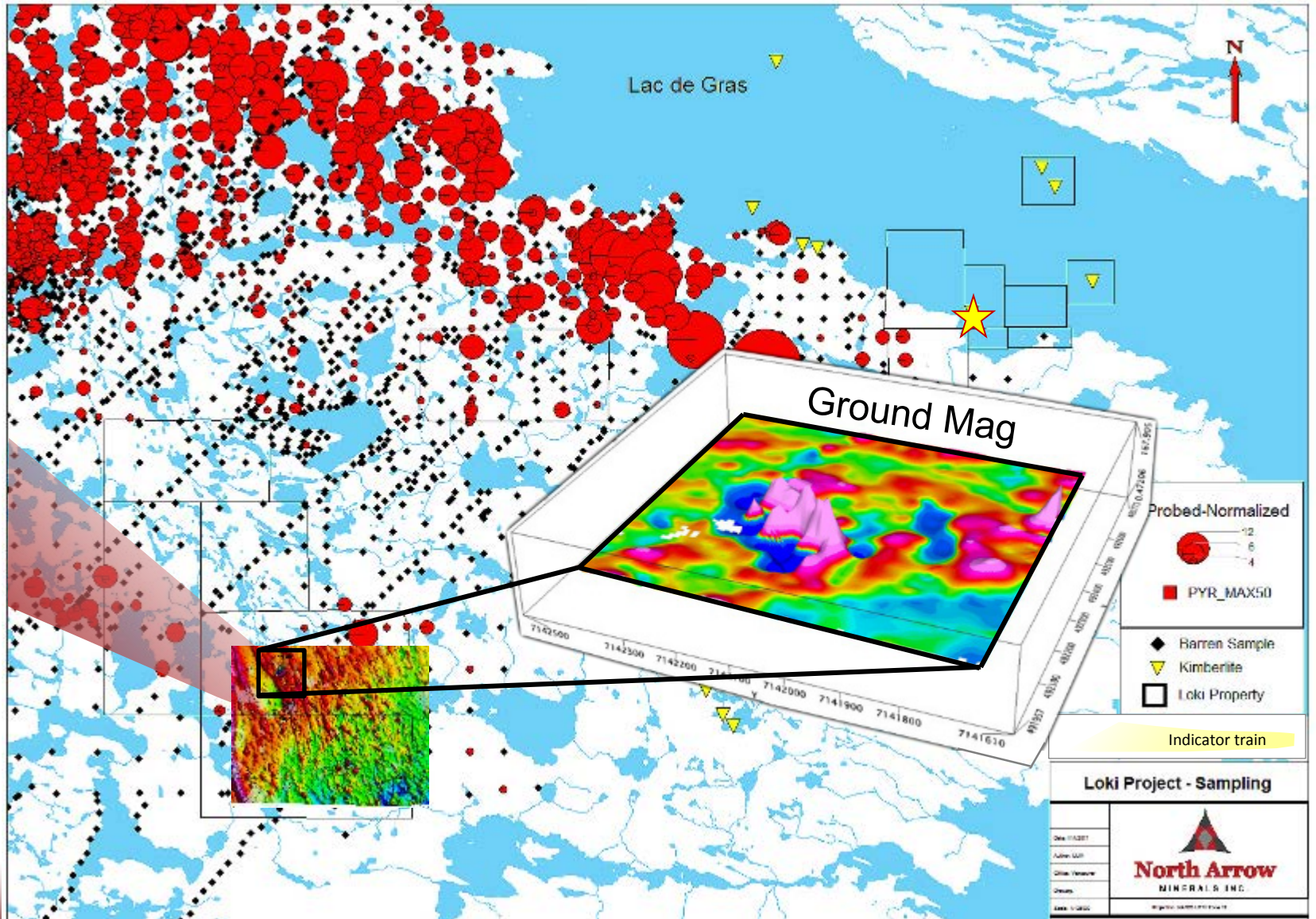
## North Arrow





# LOKI – Drill Target 853

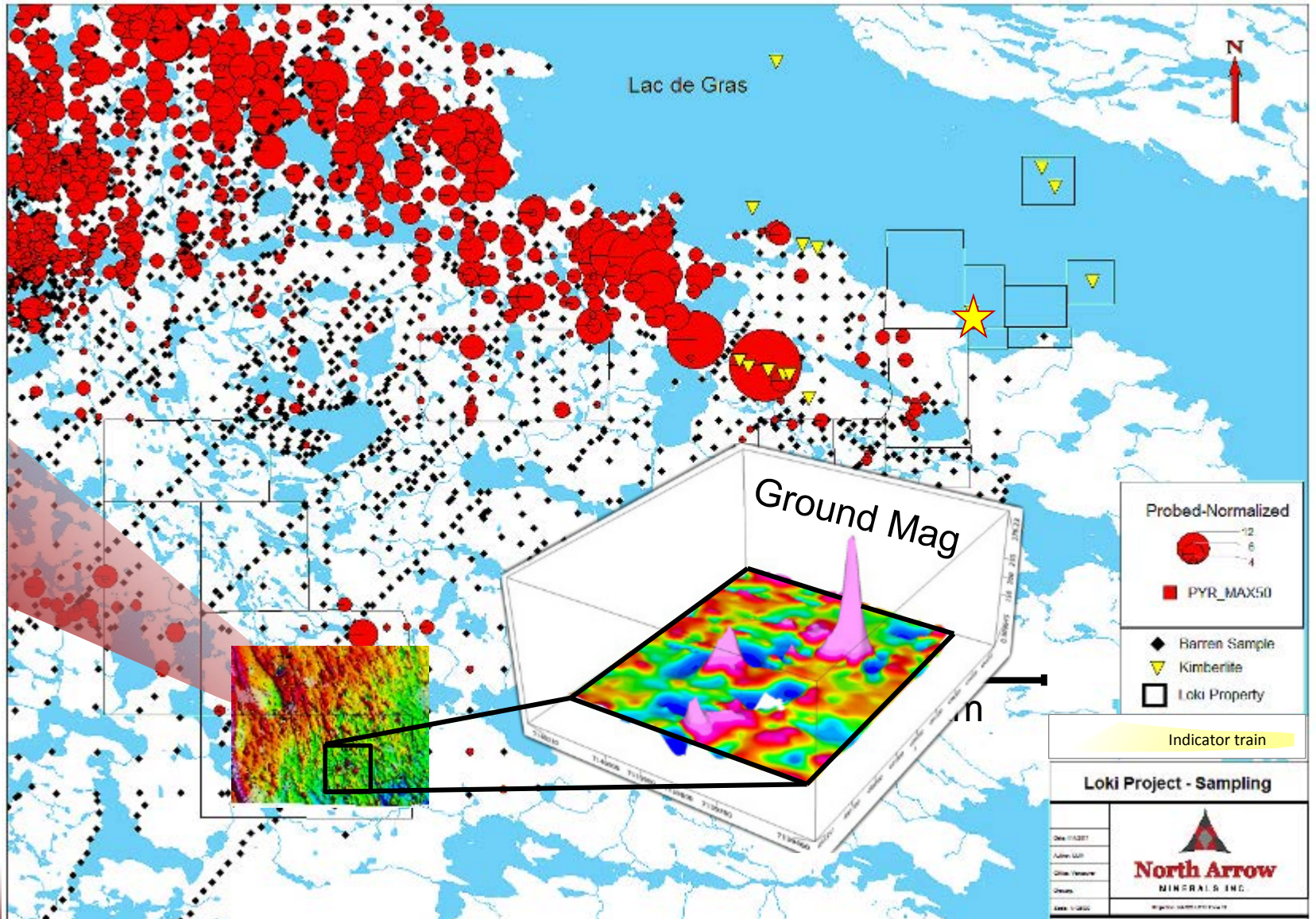
## North Arrow





# LOKI – Drill Targets 909 & 910

## North Arrow





# PIKOO PROJECT, SK

## North Arrow MINERALS INC.

- North Arrow (100%).
- Good local infrastructure - within 10 km of SK Hwy 911
- 10 kimberlite discoveries.
- 5 tested kimberlites are diamondiferous.
- PK150 – 1,232 diamonds > 0.106 mm from 531 kg.
- Till sampling suggests more unique unsourced KIM trains.
- 2017: 42 till samples to better defined South Pikoo and Bear Lake drill targets.



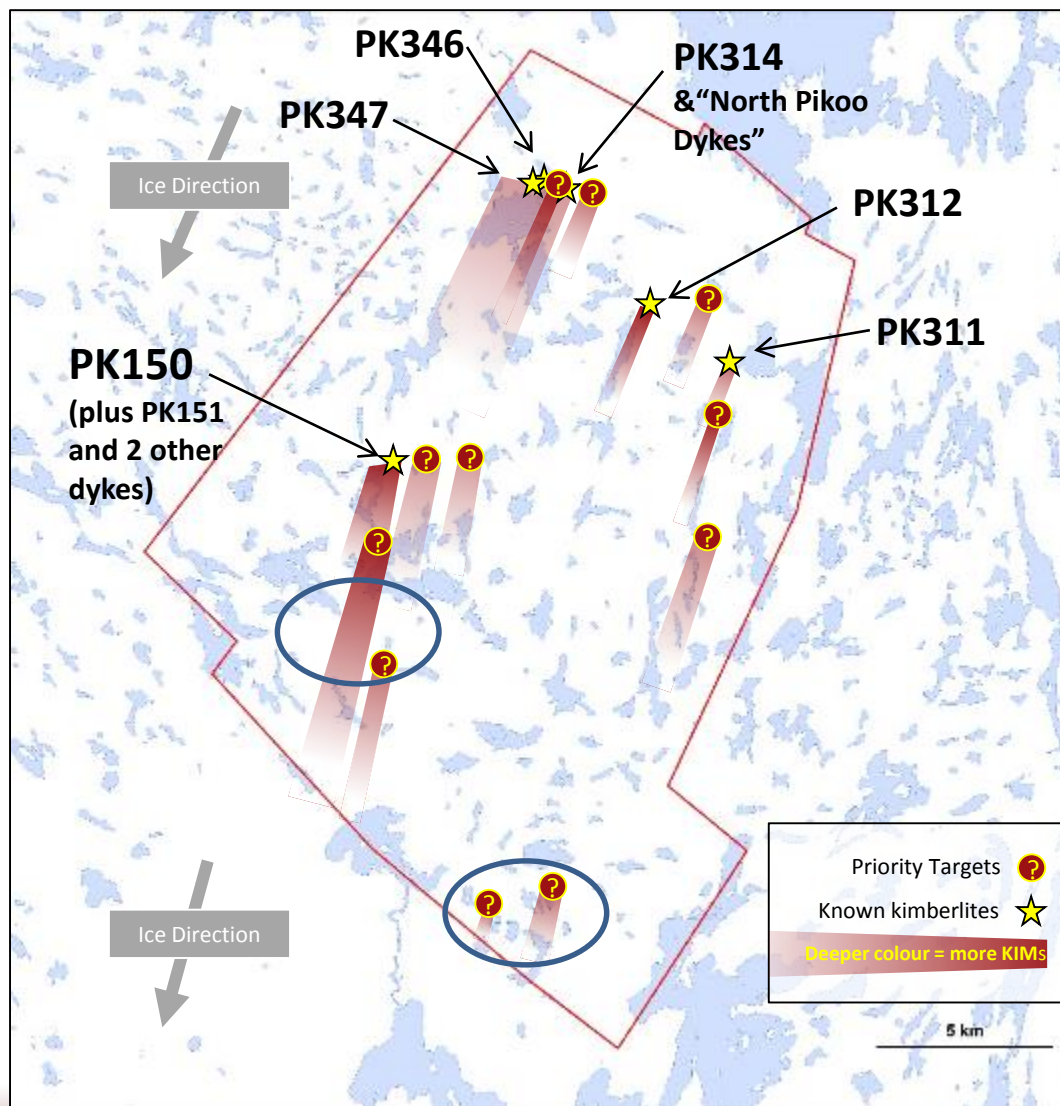
23 +0.85 mm stones recovered  
from initial 2013 209 kg PK 150 sample



# PIKOO PROJECT – DISTINCT INDICATOR TRAINS

## North Arrow MINERALS INC.

- Till sampling works.
- At least 10 unsourced KIM trains.
- Excellent chemistry – KIMs derived from diamond stable mantle.
- More diamondiferous kimberlite discoveries to be made on the property.
- 2017 samples from south of PK150 and Bear Lake area in south east. Results Pending.
- Drill & Camp permits in hand.







# NORTH ARROW - THE WAY FORWARD

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Advanced Stage

Discovery Stage

Grassroots

Brownfields Gold

Project	Commodity	Interest	Comment
<b>Naujaat - NU</b> <i>(Q1-4 kimberlite)</i>	Diamonds	100%	Diamond results pending; <b>Drilling</b> – April/May 2018; Road planning & bulk sample leading to PEA
<b>Mel - NU</b>	Diamonds	100%	<b>Drilling</b> – June/July 2018
<b>Loki - NWT</b>	Diamonds	100%	<b>Drilling</b> – March 2018
<b>Lac de Gras - NWT</b>	Diamonds	~35% JV w Dominion	<b>Drilling</b> – spring 2018
<b>Pikoo - SK</b>	Diamonds	100%	Till sample results pending <b>Drilling</b> - fully permitted with kimberlite targets
<b>Luxx - NU</b>	Diamonds	100%	<b>Drilling</b> – fully permitted with kimberlite targets
<b>Timiskaming - ON</b>	Diamonds	80%	Ongoing database evaluation
<b>Hope Bay - NU</b>	Gold	100%	Northern Hope Bay greenstone belt 3km north of TMAC's Doris Gold Mine Several Au showings / JV potential



# North Arrow

MINERALS INC.



**TSXV: NAR**

**Ken Armstrong**  
*President & CEO*

**Nick Thomas**  
*Community and Investor  
Relations Manager*

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