

# Guigues Kimberlite Pipe – Opportunity for Discovery



TSX-V:TRS



Type II diamond dominates (76%) of microdiamonds recovered from Guigues Kimberlite Pipe drill core tested by Saskatchewan Research Council (SRC)

0.1 mm

# Cautionary Notes

## Forward-Looking Statements

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 Tres-Or Resources Ltd. (the “Company”). These uncertainties include, but are not restricted to, the amount of geological data available, the uncertain reliability of drilling results and geophysical and geological risks and data and the interpretation thereof and the need for adequate financing for future exploration and development efforts. There can be no assurances that such statements as described above 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 options change.

## Qualified Persons

Disclosure of a scientific or technical nature related to the Company’s projects and exploration activities was prepared under the supervision of Dr. Harrison O. Cookenboo, Ph.D., P.Geo., an independent Qualified Person (as such term is defined in National Instrument 43-101), and Ms. Laura Lee Duffett, P.Geo., the Company’s President and CEO, who is a non-independent Qualified Person, both of whom have reviewed and approved the technical and scientific portions of this presentation. Portions of the information are based on assumptions, qualifications, and procedures that may not be fully described herein and for which there may be no supporting technical report prepared in accordance with National Instrument 43-101.

All amounts are in Canadian dollars, unless otherwise indicated.

## Tres-Or's Guigues Kimberlite pipe:

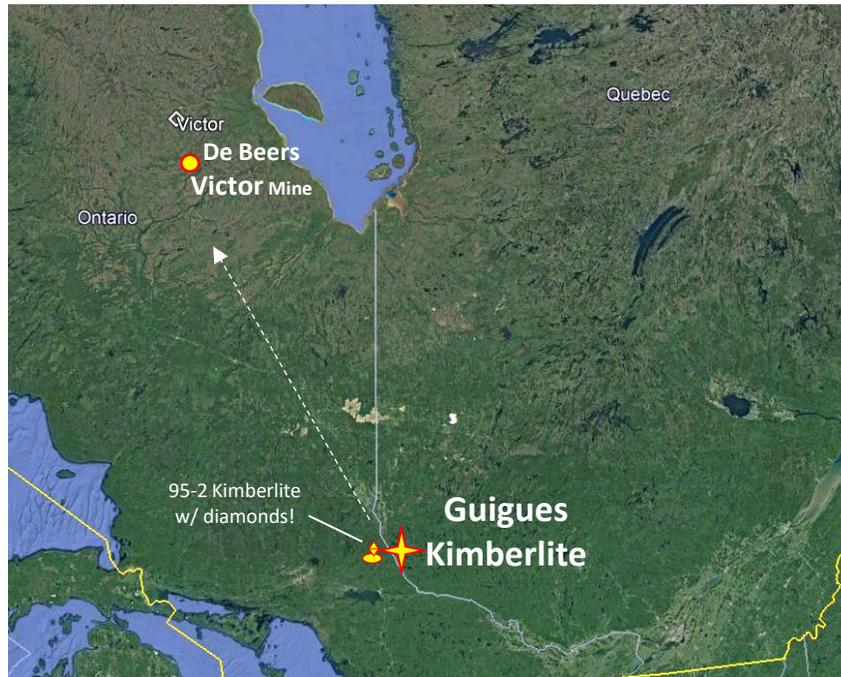
Substantial size (~4.6 to 7 hectares)

Located in area of very good access and infrastructure

Mineral chemistry favourable for diamonds, and

*closely comparable* to De Beers' world class Victor Diamond Mine

First tests by modern microdiamond methods returned 58 microdiamonds from 512 kgs



Tres-Or drilled 5 holes in 2019 to use drill core in the microdiamond tests covering multiple phases of the Guigues Kimberlite pipe. In Nov 2021, Tres-Or drilled 5 additional HQ holes and recovered drill core sufficient for a mini-bulk sample (+10 tonnes of kimberlite core) for macrodiamond testing.

## The Guigues Kimberlite Pipe has comparable microdiamond and indicator mineral populations to De Beers' Victor Diamond Mine

- 58 microdiamonds were recovered by SRC from 511.6 kgs Guigues kimberlite core
- Type II diamond dominates the microdiamond recovery (76%)
- December 2019 Drill Program completed 1432m of NQ core – and the remaining core is to be tested for macrodiamonds with an additional 1500m of HQ core drilled in November 2021 = (+10 tonnes) mini-bulk sample for 1<sup>st</sup> macrodiamond test



Table 1: Total SRC microdiamond results from the Guigues Kimberlite pipe.

Total Weight	Numbers of Diamonds According to Sieve Size Fraction (mm)							# of Stones
	+0.075	+0.106	+0.150	+0.212	+0.300	+0.425	+0.600	
Kg	-0.106	-0.150	-0.212	-0.300	-0.425	-0.600	-0.850	
<b>511.6</b>	<b>19</b>	<b>18</b>	<b>10</b>	<b>3</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>58</b>

All but 3 of the recovered microdiamonds are described by SRC as “White/Colourless, Transparent” with no or minor inclusions. Only one microdiamond is described as having “noticeable inclusions”.

The recovered microdiamonds (76%) are dominantly (16 out of 21 > 0.150 mm) the rare and highly sought after Type II lacking nitrogen impurities.

## Guigues microdiamond counts are closely similar to De Beers' Victor Kimberlite

*1.3 microdiamonds per 10 kgs from Victor*

*1.1 microdiamonds per 10 kgs from Guigues*

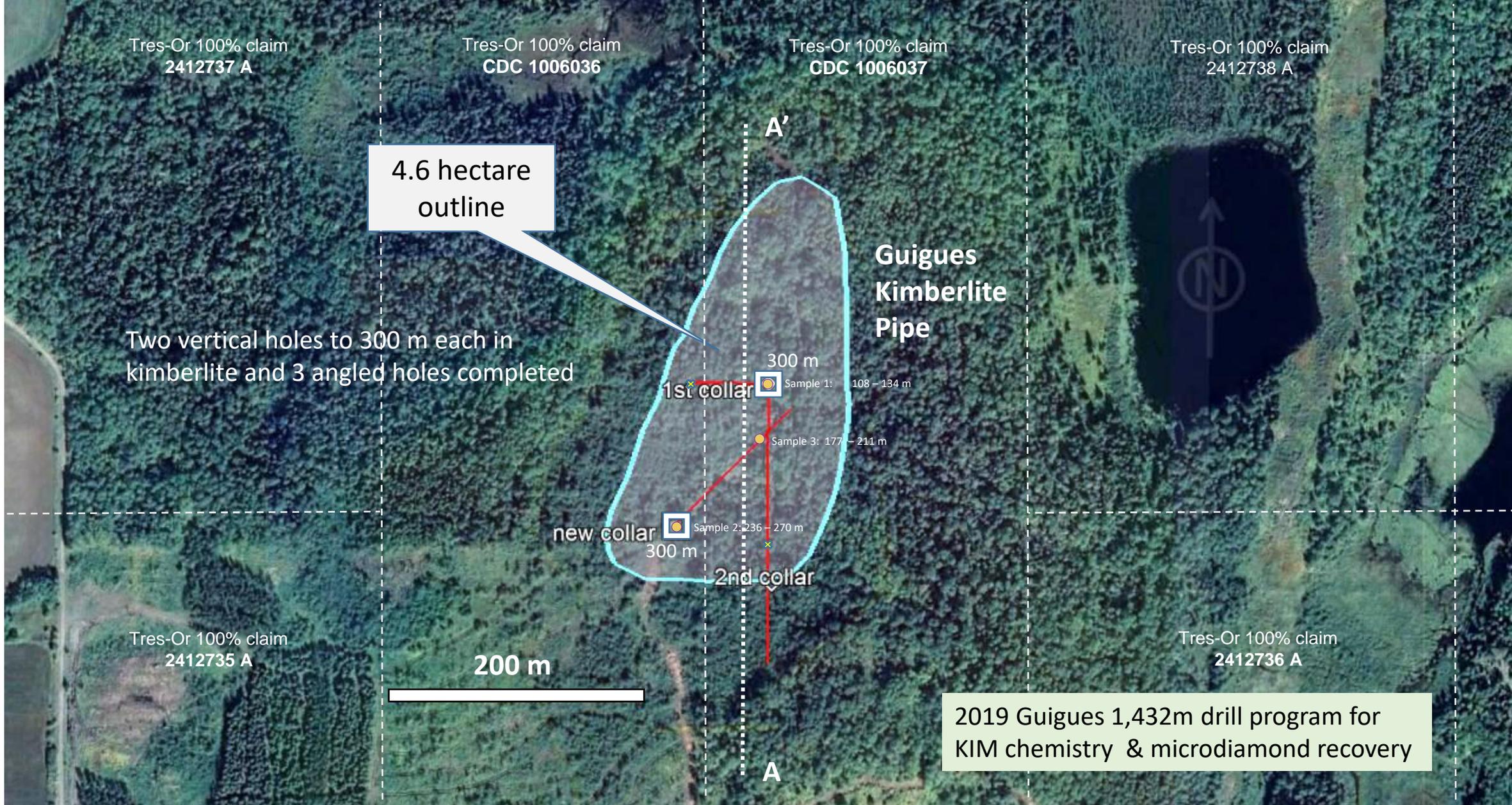


De Beers' Victor open-pit diamond mine in northern Ontario. Credit: De Beers.

Tres-Or's Guigues Kimberlite data added to table of Victor and other De Beers pipes in the Attawapiskat field.

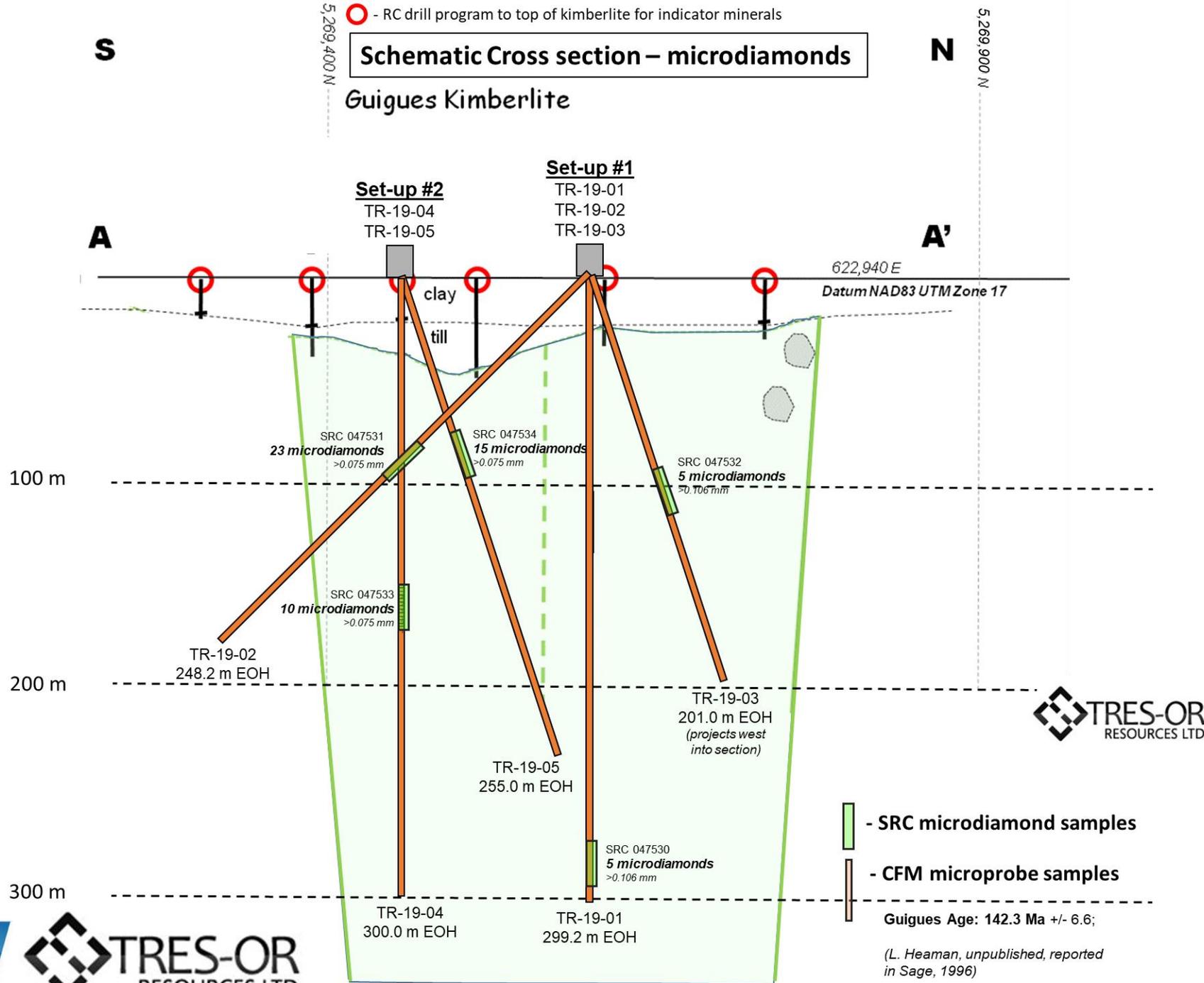
	Hectares	Kg	#/ 10 kgs	<0.5 mm	>0.5 mm	1996 MiDA model grades ≠<0.5 CPHT
W	2.7	1376.1	3.1	420	12	15
Victor	15.0	1080.7	1.3	133	11	10
<b>SRC data Guigues</b>	<b>4.5 - 7</b>	<b>512</b>	<b>1.1</b>	<b>57</b>	<b>1</b>	<b>??</b>
A1n	3.7	312.2	1.9	58		10
X	6.6	197	2.2	42	2	40
Z	3.4	192	7.6	143	3	40
D1	6.4	176.5	2.0	35	1	5
C1	0.4	160.6	3.7	59		20
A1	7.5	159.5	0.3	4		< 1
T	4.6	159	0.3	5		< 1
X1	1.7	156.8	0.3	5	0	< 1
H	3.0	147	0.7	10		< 1
U	1.0	144.2	2.4	35		< 1
G1	4.0	143.1	0.3	4		< 1
Te	4.6	142	0.9	11	2	< 1
Y	0.8	134	0.0	0	0	< 1
B1	3.6	73.9	6.0	44		30
<b>Totals:</b>		<b>5266.6</b>	<b>2.1</b>	<b>1065</b>	<b>32</b>	

*After De Beers data table from Winzar (2001).*



**Schematic Cross section – microdiamonds**

Guigues Kimberlite



- SRC microdiamond samples
- CFM microprobe samples

Guigues Age: 142.3 Ma +/- 6.6;

(L. Heaman, unpublished, reported in Sage, 1996)

## Guigues microdiamonds are strongly dominated by Type II compositions which lack nitrogen

16 out of 21 (76%) stones measured by SRC are Type II (>0.150 mm)

Sample	Square mesh screen size (mm)	Type	N (ppm)	%A defect	40 mW/m <sup>2</sup> geotherm		
					T (°C) 3 Ga	Pressure (GPa)	Depth (km)
047531 BAG 11 150UM	0.150	II	0	0	-	-	-
047531 BAG 2 150UM 10F3	0.150	II	0	0	-	-	-
047531 BAG 2 150UM 20F3	0.150	II	0	0	-	-	-
047531 BAG 2 150UM 30F3	0.150	II	0	0	-	-	-
047531 BAG 4 300UM	0.300	II	0	0	-	-	-
047531 BAG 4 425UM	0.425	IaA	949	93	1055	4.81	152
047531 BAG 7 425UM	0.425	II	0	0	-	-	-
047531 BAG 8 150UM	0.150	II	0	0	-	-	-
047531 BAG 8 300UM	0.300	II	0	0	-	-	-
047531 BAG 9 212UM	0.212	II	0	0	-	-	-
047533 BAG 13 300UM	0.300	II	0	0	-	-	-
047533 BAG 7 300UM	0.300	II	0	0	-	-	-
047533 BAG 9 150UM	0.150	II	0	0	-	-	-
047534 BAG 10 150UM	0.150	II	0	0	-	-	-
047534 BAG 2 212UM	0.212	IaAB	365	77	1107	5.20	164
047534 BAG 4 300UM	0.300	IaA	618	91	1070	4.92	155
047534 BAG 5 150UM	0.150	II	0	0	-	-	-
047530 BAG 9 150UM	0.150	IaA	660	100	1004	4.48	141
047530 BAG 9 150UM	0.150	IaA	595	91	1072	4.93	155
047532 BAG 1 212UM	0.212	II	0	0	-	-	-
047532 BAG 3 300UM	0.300	II	0	0	-	-	-

## Some famous Type II diamonds

Diamond	Mine	Locations	Carats	Famous for: (All US\$)	Notes
Cullinan diamond	Premier Mine	South Africa	3107	Largest gem diamond in history	British Crown Jewels
Sewelô	Karowe Mine	Botswana	1758	2nd Largest gem diamond in history	Discovered 2019
Lesedi La Rona	Karowe Mine	Botswana	1109	3rd largest gem diamond in history (sold for \$53 million)	Discovered 2015
Constellation	Karowe Mine	Botswana	813	Sold for \$63.1 million	Discovered 2016
Sethunya	Karowe Mine	Botswana	549	"exceptionally pure high color"	Discovered Feb 2020
Lesotho Promise	Letseng Mine	Lesotho	603	D flawless - rounded irregular shape	Discovered 2006
Lesotho Legend	Letseng Mine	Lesotho	910	D flawless - 5th largest gem in history (sold for US\$40 million)	Discovered 2018
<i>Flawless D color</i>	Victor Mine	Ontario	271	2nd largest oval cut diamond 102 carats	Discovered 2018

*Flawless D color* Victor Mine Ontario rough 271 carats; 2nd largest oval cut diamond 102 carats Discovered 2018



**Photomicrographs of all Guigues Kimberlite stones >0.150 mm**

*see subsequent 3 slides*

**16 of 21 (76%) are Type II diamonds**



Guigues Type II diamond

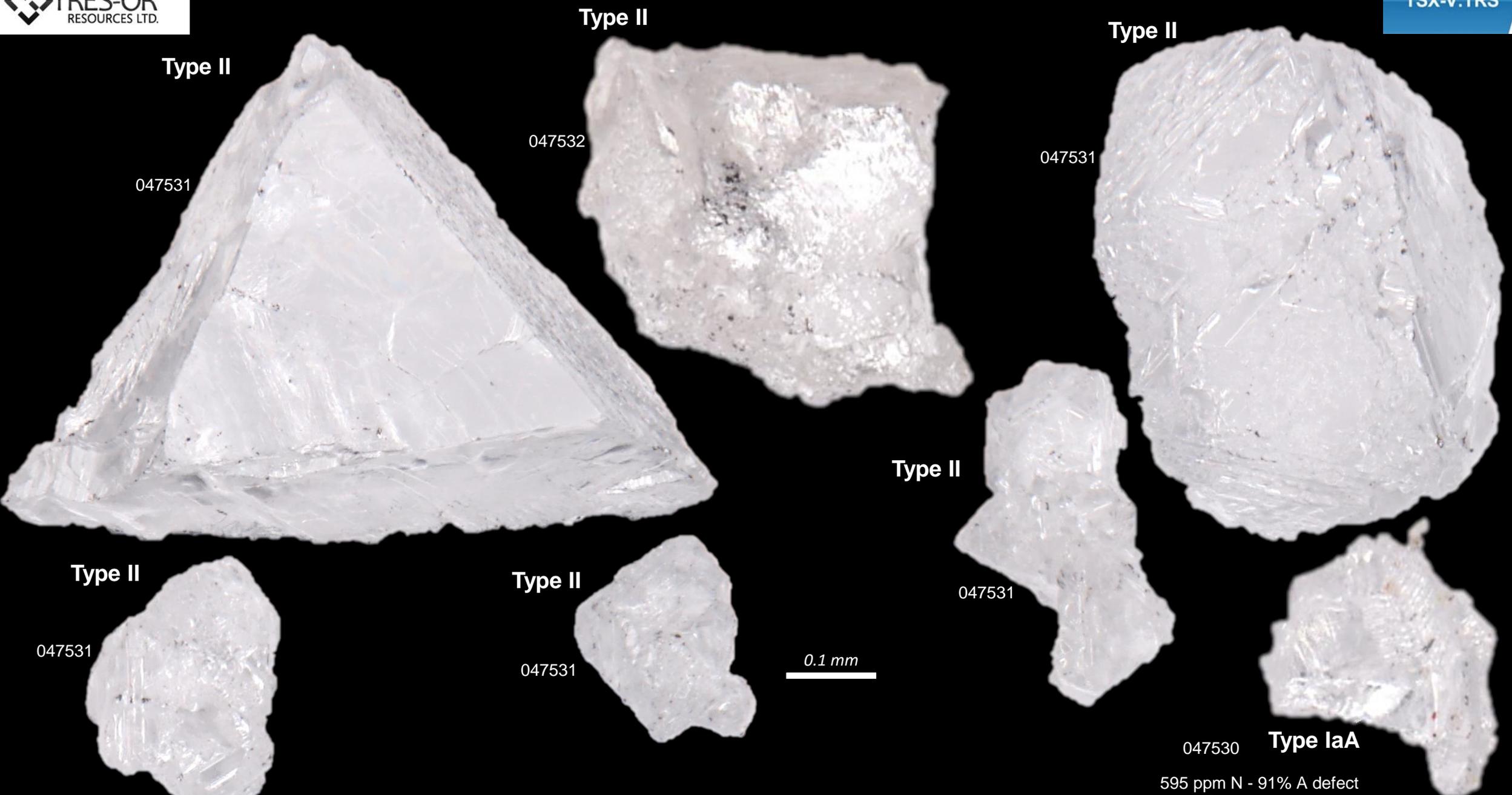


Guigues Type II diamond



Guigues Type II diamond

0.1 mm



Type II

Type II

Type II

047531

047532

047531

Type II

Type II

Type II

047531

047531

047531

0.1 mm

047530

Type IaA

595 ppm N - 91% A defect  
T=1072°C; P=4.93 Gpa; Depth =155 km

Temperature, Pressure and Depth of origin assume 40 mW/m2 geotherm

Type II

047533



Type II

047531



Type II

047533



Type II

047531



Type II

047531



Type II

047534



Type II

047533



0.1 mm



047534



Type IaAB

365 ppm N - 77% A  
T=1107°C; P=5.20 Gpa; Dpth =164 km

Temperature, Pressure and Depth of origin assume 40 mW/m2 geotherm

047534

Type IaA



TSX-V:TRS

Type IaA

047534

Type II

047531

949 ppm N - 93% A defect  
T=1055°C; P=4.81 Gpa; Depth=152 km

Type II

047531

Type II

047532

0.1 mm

618 ppm N 91%A defect  
T=1070°C; P=4.92 Gpa; Depth=155 km

Type IaA

047530

660 ppm N - 100% A defect  
T=1004°C; P=4.96 GPa; Depth=156 km

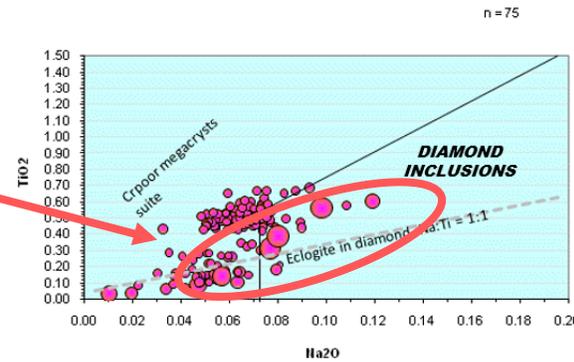
Temperature, Pressure and Depth of origin assume 40 mW/m2 geotherm

# GUIGUES KIMBERLITE INDICATOR MINERAL CHEMISTRY

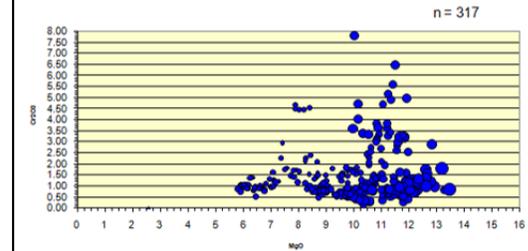
## Most important result:

Multiple eclogite garnets with diamond inclusion compositions

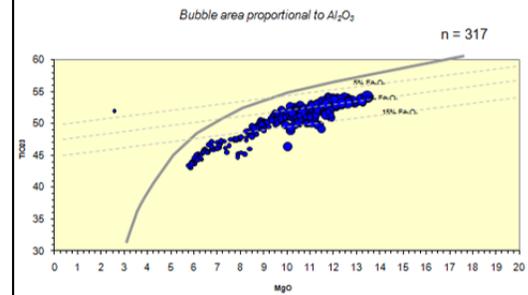
## GUIGUES ECLOGITE GARNET



## GUIGUES Mg-ILMENITE

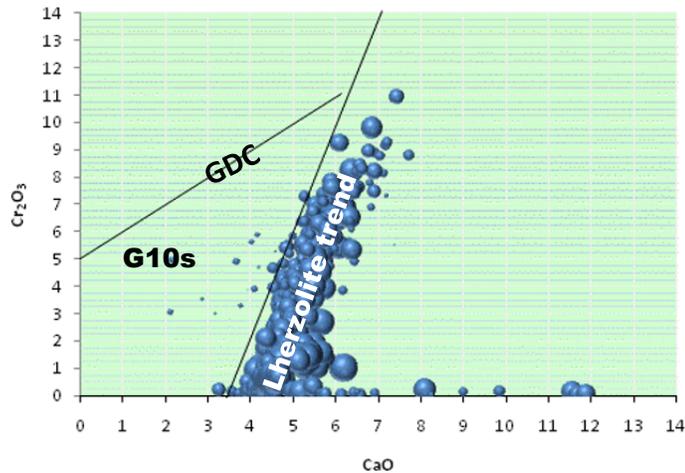


### Guigues - All Mg-ilmenite



## All Garnets - Guigues Kimberlite

Bubble diameter proportional to TiO<sub>2</sub>



## CFM Laboratory classification\*

(Chuck Fipke's lab)

**Diamond Associated compositions!**

EG: 7 DI+12 prob. DI + 18 possible DI

PY G-11: 5 DI

OLV: 23 of 74 DI or DI overlap

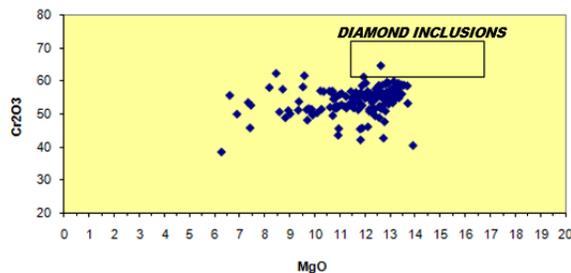
CHR: 1 DI

\*DI = DIAMOND INCLUSIONS

(Evaluation methods summarized in Cookenboo and Grütter, 2010)

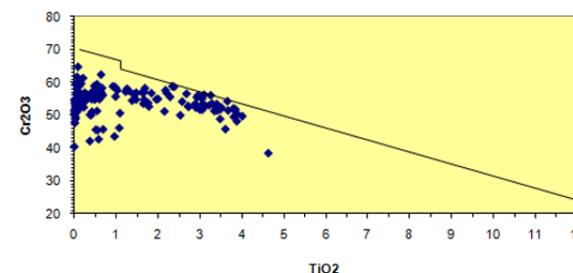
## GUIGUES CHROMITE

n = 150



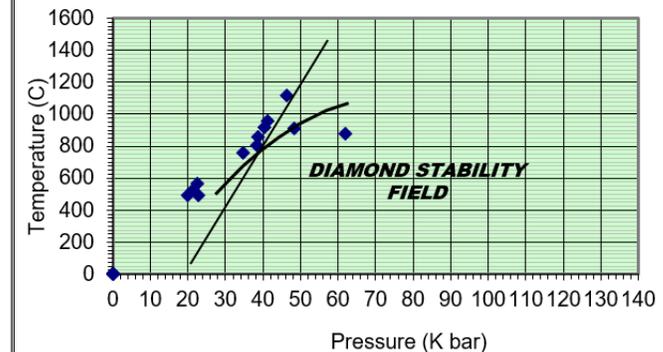
## GUIGUES CHROMITE

n = 150



## Guigues Chrome Diopside P(K bar) and T(°C)

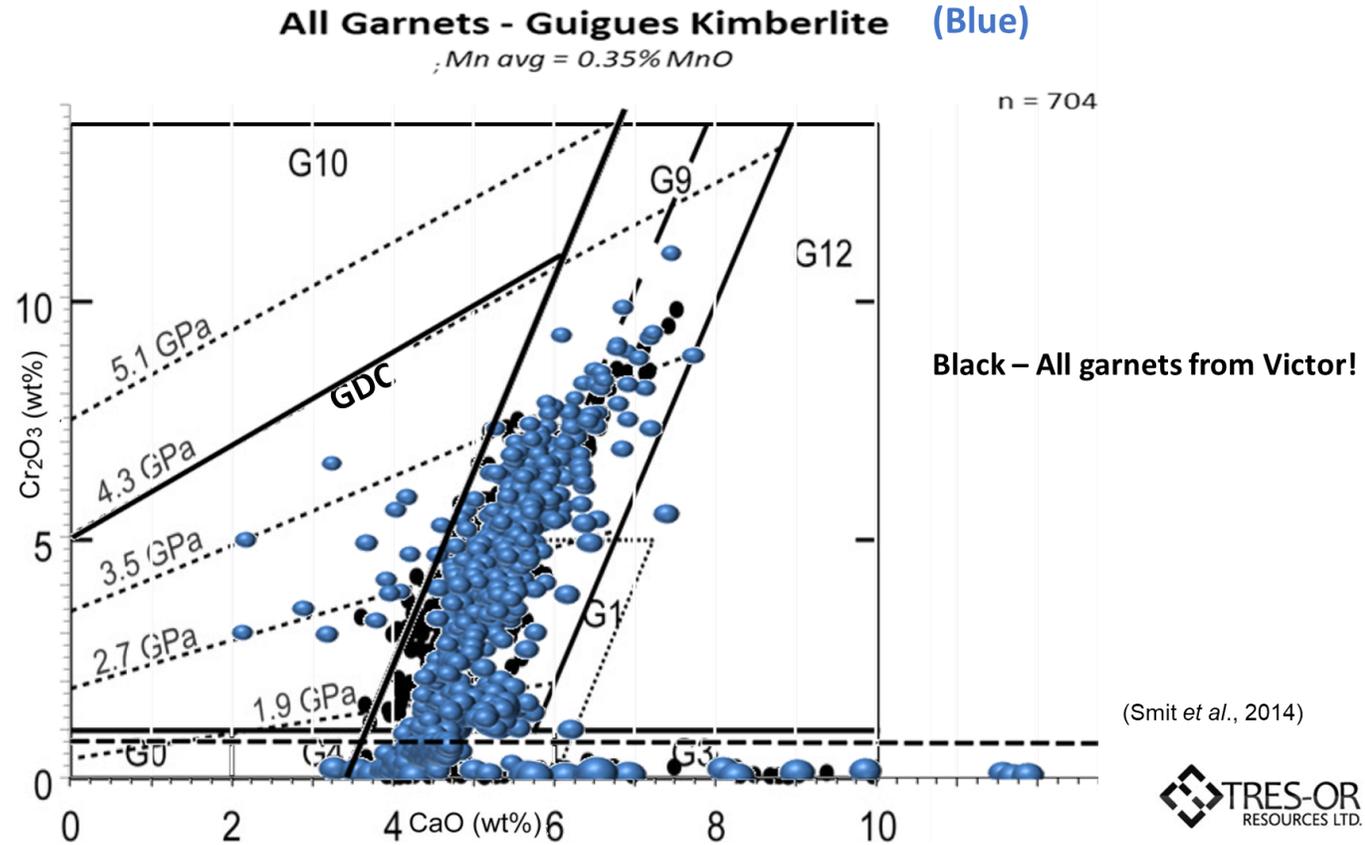
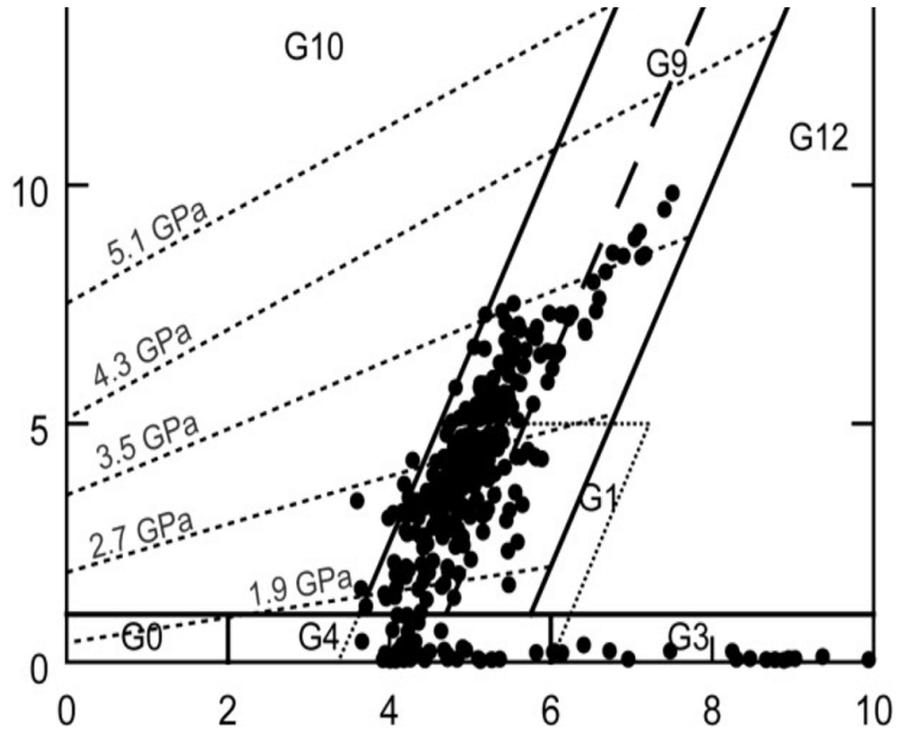
(method after Nimis and Taylor, 2000)



Guigues diamond indicator mineral compositions are closely similar to De Beers' Victor Kimberlite

All garnets Victor and Guigues data sets

Comparison to Victor - All garnets from Victor!

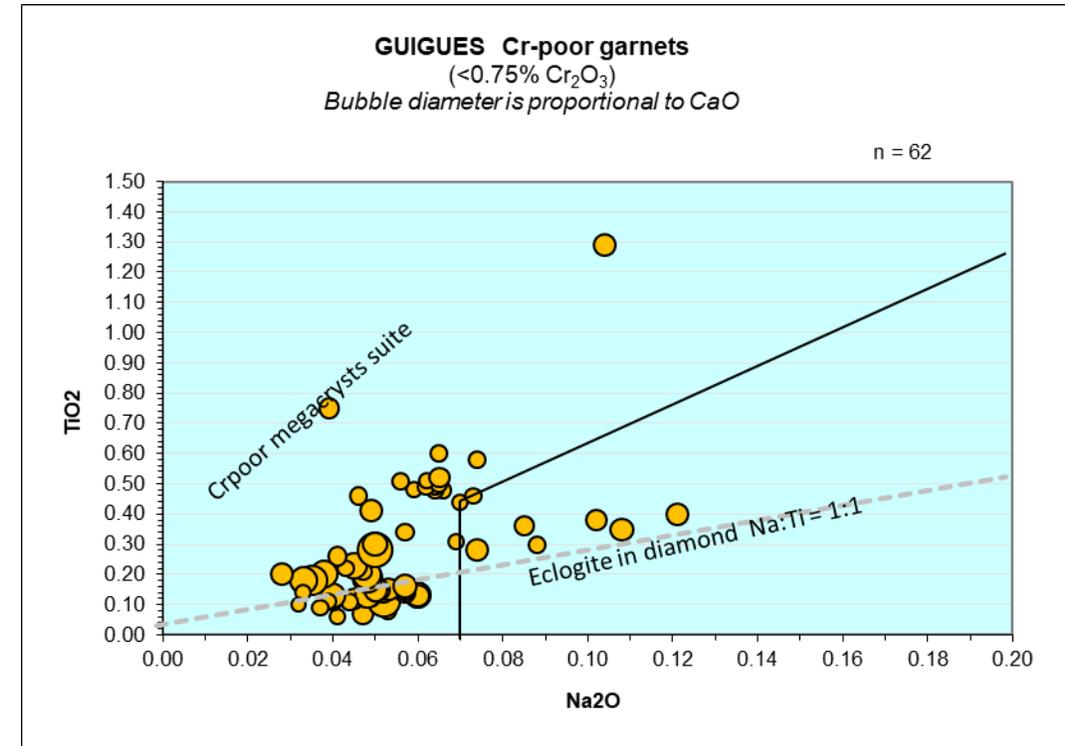
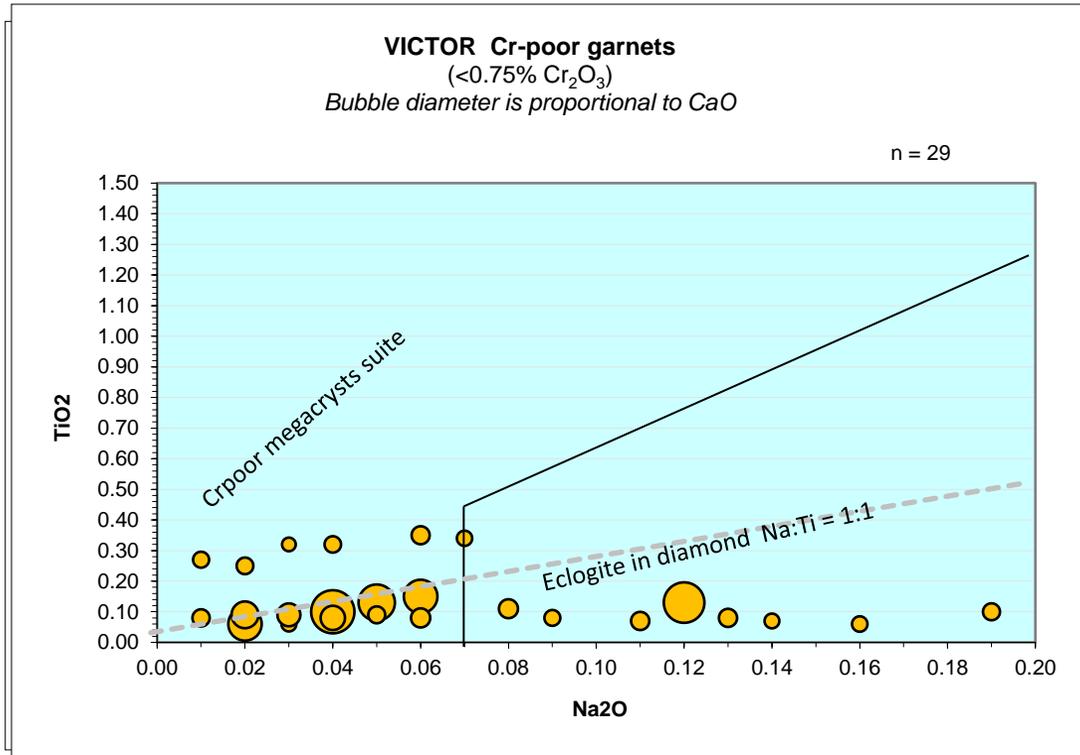


(Smit et al., 2014)



**Guigues diamond indicator mineral compositions are closely similar to De Beers' Victor Kimberlite**

**Eclogitic garnets Victor and Guigues**



## Tres-Or drilling the Guigues Kimberlite

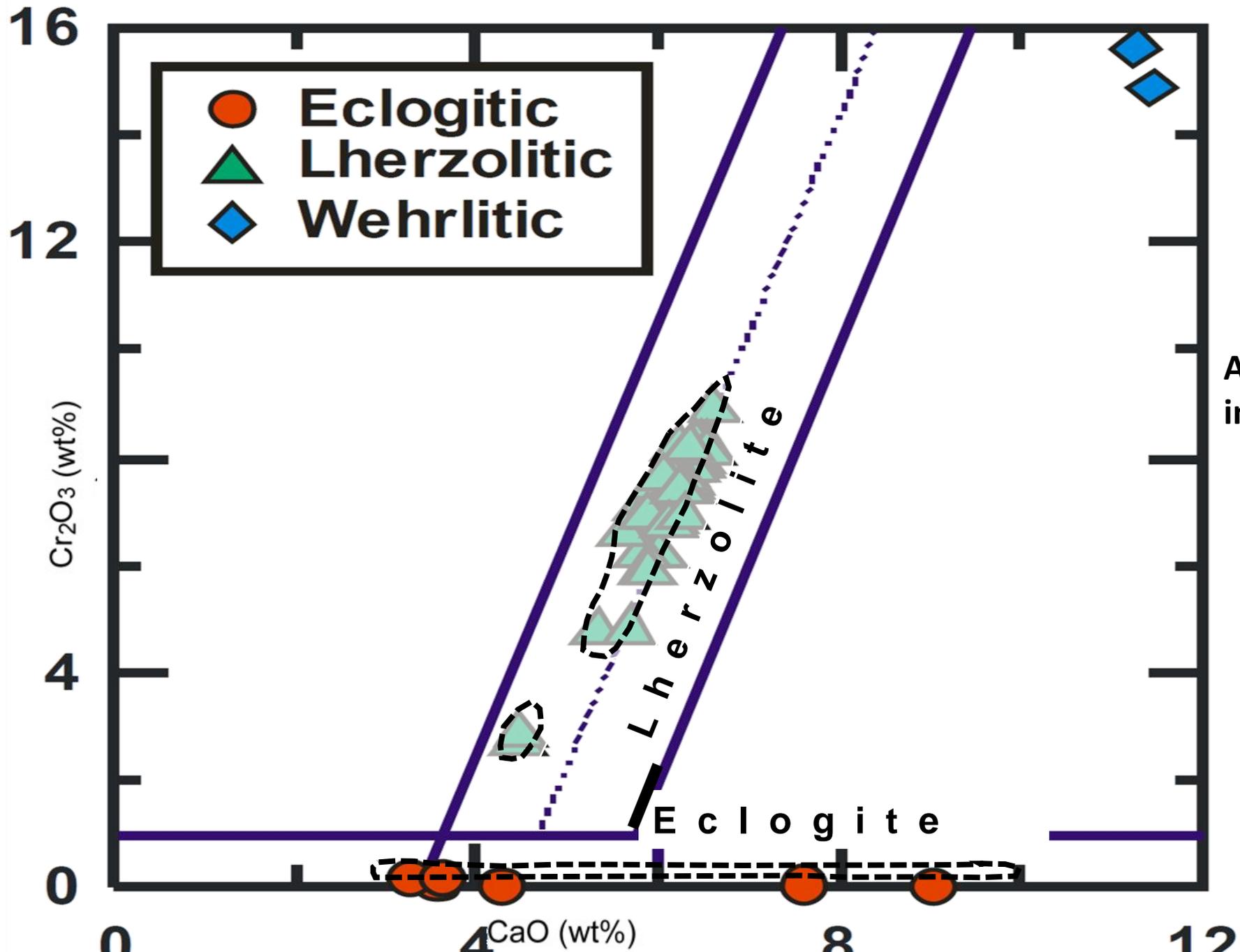


+ 10 tonnes of Guigues kimberlite drill core securely stored for 1<sup>st</sup> macrodiamond test



## Recent advances add to the diamond prospectivity of Guigues:

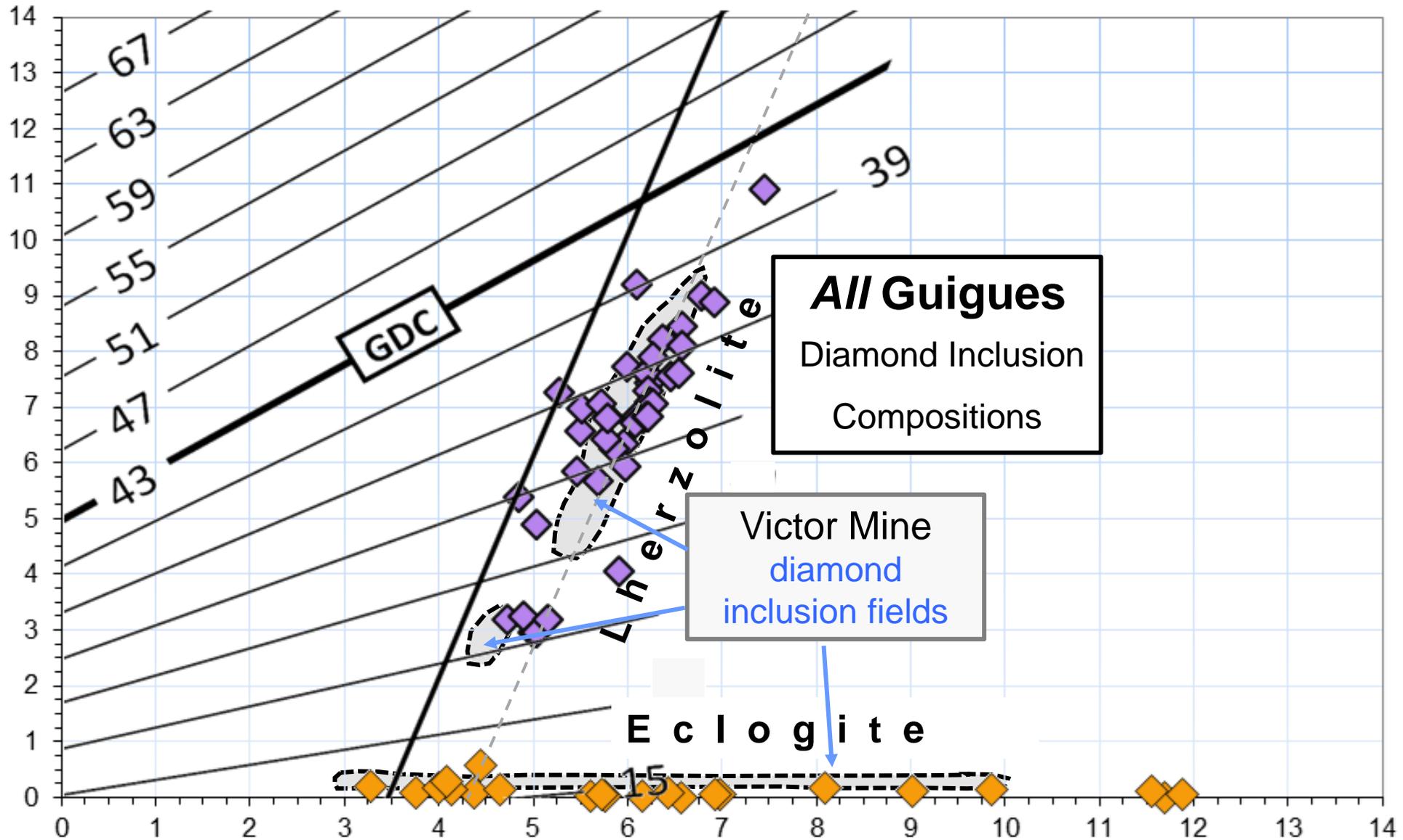
- 1) 2017: Scientists working with De Beers, published *diamond inclusion compositions* showing that **Victor** diamonds are from both **eclogite (13%)** and **Iherzolite (87%)** mantle sources, but lack a typical G10/harzburgite source;
- 2) 2019: CF Minerals Research laboratory (Charles Fipke's lab) completed an update of their proprietary classification system including new diamond inclusion data such as published for Victor. Using the lab's updated database they identify *a strong Iherzolite diamond inclusion component* amongst **Guigues** garnets.
- 3) 2020: Recovery of 58 microdiamonds from 511.6 kg of Guigues Kimberlite
- 4) 2021: Type II diamonds dominate (76%)
- 5) Nov 2021: additional 1500m HQ drill core recovered from Guigues and stored securely for a planned (+10 tonnes) mini-bulk sample test for macrodiamonds.

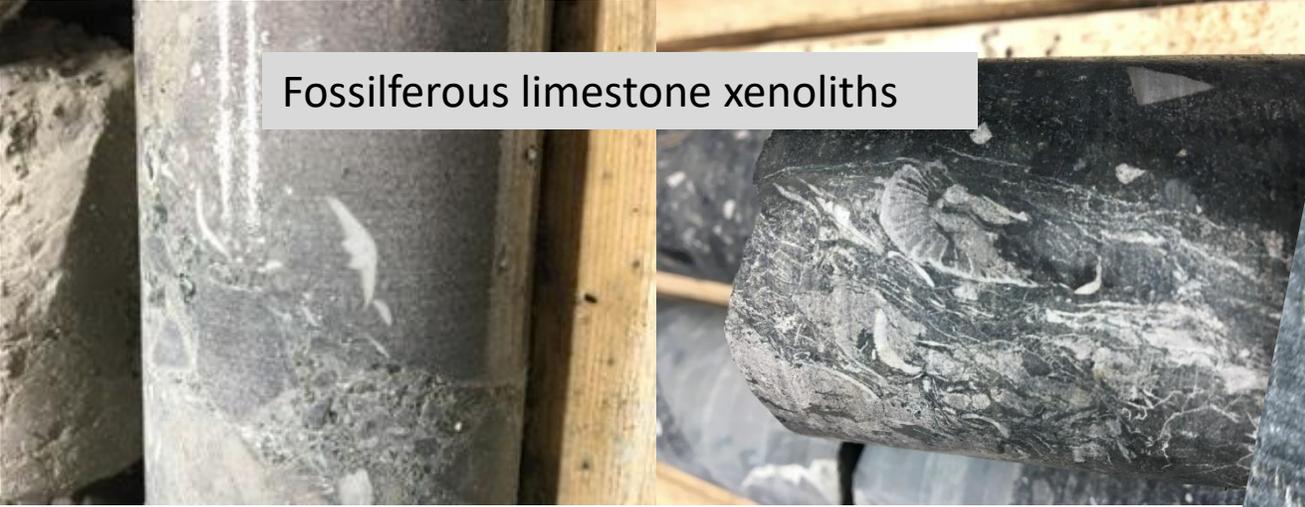
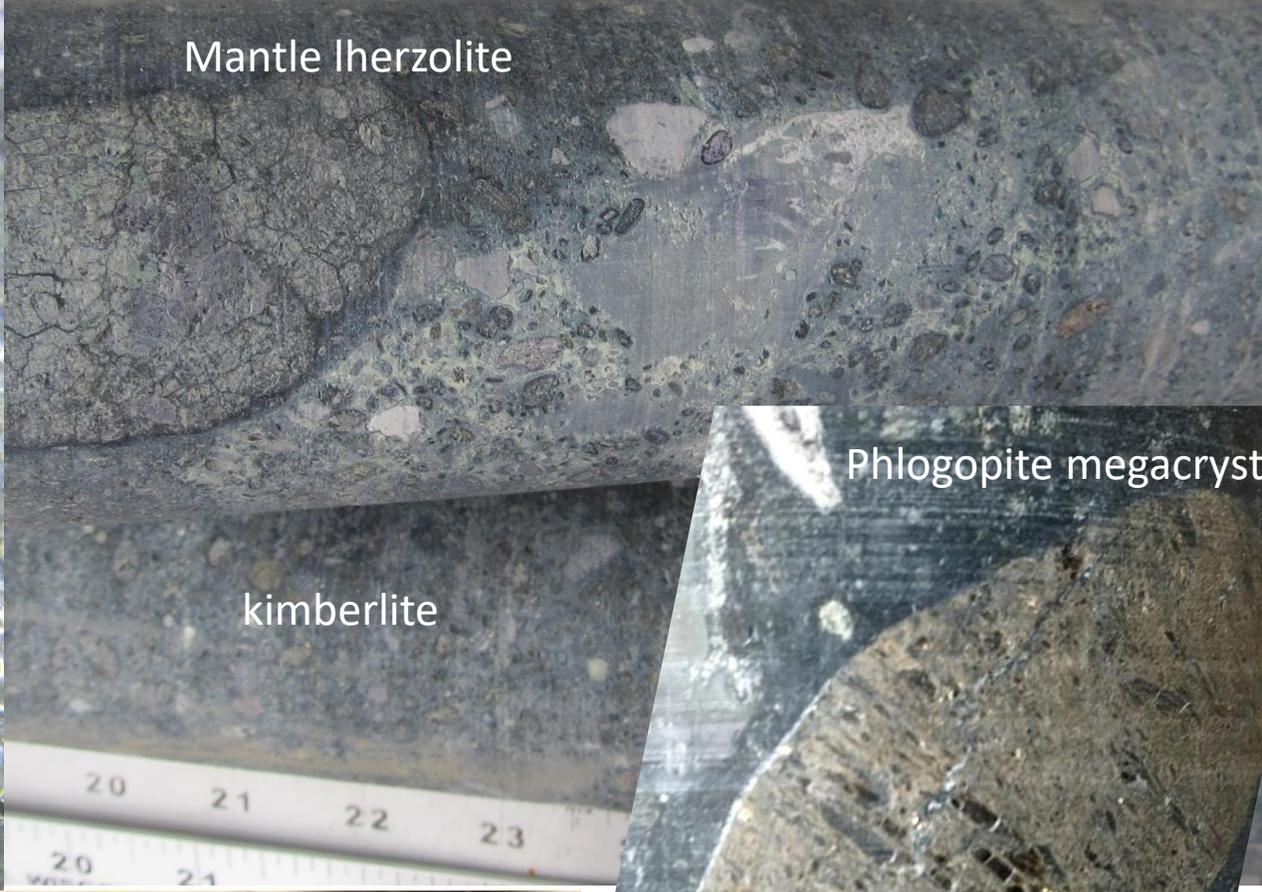


All Garnet diamond inclusions from Victor!

# Guigues CFM re-classification June 2019

n= 64





# TRES-OR RESOURCES – GUIGUES DIAMOND PROJECT



Tres-Or completed KIM chemistry, 2 drill programs and recovered +10 tonnes of kimberlite core; 58 microdiamonds recovered of which 76% were Type II stones. Plans mini-bulk 1<sup>st</sup> macrodiamond test of Guigues

## Highlights:

- **1,432 m of drill core from 5 holes completed in December, 2019 and additional 1,500 m of drill core from November, 2021.**
- **Abundant mantle xenoliths and indicator minerals, KIM chemistry is closely similar to De Beers' Victor Mine**
- **Drilled the kimberlite to 300 m in north and south parts of the 4.6 – 7 ha pipe, obtained more than 10 tonnes of core for testing**
- **58 Microdiamonds recovered from 511.6 kg**
- **Type II diamonds dominate: +75%**
- **Mini-bulk sample (+10 tonnes) of Guigues kimberlite drill core to test for macrodiamond content**

### About Tres-Or Resources Ltd.:

Tres-Or Resources Ltd. (“Tres-Or”) is a Canadian diamond exploration company with mineral exploration claims and diamond discoveries in Quebec and Ontario, Canada and exploration permits for primary diamond sources in Brazil through its wholly owned subsidiary Vaaldiam do Brasil Mineração Ltda. Tres-Or is listed on the TSX Venture Exchange under the trading symbol “TRS”. Additional information related to the Company is available on SEDAR and on the Company’s website ([www.tres-or.com](http://www.tres-or.com)).

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Website: [www.tres-or.com](http://www.tres-or.com)

### REFERENCES:

**Cookenboo, H.O., and Grütter, H.S., 2010.** Mantle-derived indicator mineral compositions as applied to diamond exploration. *Geochemistry: Exploration, Environment, Analysis* 2010; v. 10; p. 81-95

**Grütter, H.S., Latti, D. and Menzies, A. 2006.** Cr-saturation arrays in concentrate garnet compositions from kimberlite and their use in mantle barometry. *Journal of Petrology*, v. 47, p. 801–820.

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