



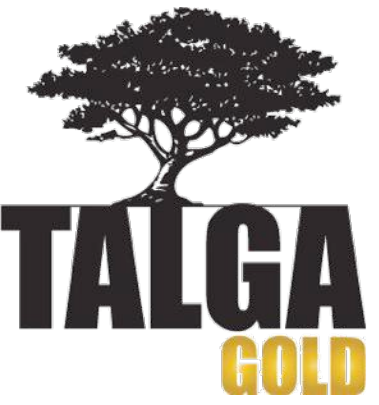
*Company Graphite Projects  
Presentation May 2012*



ASX: TLG



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# Corporate Overview



## Board

### Sean Neary

B.Ec, M.Law (Tax), CPA  
*Chairman &  
Non-Executive Director*

### Mark Thompson

MAIG, MSEG  
*Managing Director*

### Piers Lewis

B.Comm, CA  
*Company Secretary &  
Non-Executive Director*

Exchange: ASX	Code	TLG
Shares	46.35 Million	
Options (unlisted/employee)	4.35 Million	
Cash (At Mar 31,2012. \$=AUD)	\$2.70 Million	

## Top 20 own 53%

Major shareholders:  
Directors & companies associated with Board 22%  
J P Morgan Nominees 4.9%  
United Overseas Service 4.5%  
Kin Chun Wong 4.5%





# Introduction

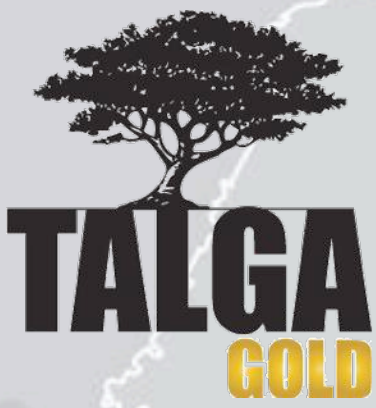
- ▶ Raised \$5M @ 20c in IPO July 2010
- ▶ Right to 100% equity in all projects
- ▶ Active explorer drilled 118 holes totalling 8,099 metres and sampled over 7,100 geochemical sites since listing 2010
- ▶ Further Raise \$2.1M @ 35c in June 2011
- ▶ Drilling iron, gold and tellurium discoveries in Western Australia
- ▶ 2012 exploration funded \$2.7m cash<sup>(at 31 Mar,2012)</sup>
- ▶ **In early 2011 reviewed graphite commodity potential and staked advanced graphite mineralisation in Sweden**
- ▶ *In 2012 acquired right to additional IOCG, Iron and Graphite projects in Sweden through option with Teck Resources Limited to acquire 100% of subsidiary TCL Sweden Ltd*



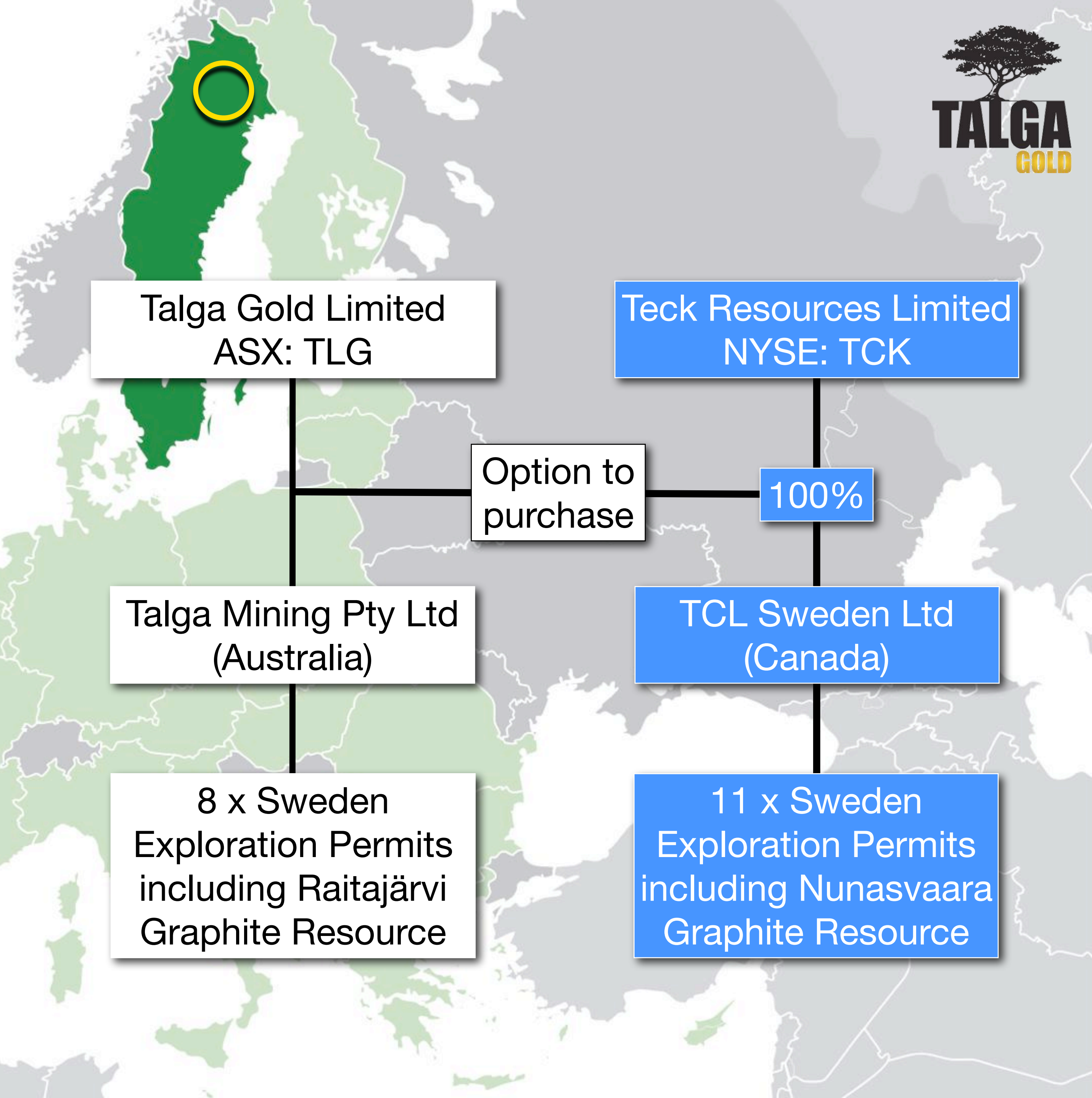
**Talga Gold staff conducting reconnaissance rock geochemical sampling in Western Australia**



# TCL Sweden Ltd Option



- ▶ During 2011 Talga Gold Ltd (“Talga”) subsidiary Talga Mining P/L pegged 100% of exploration permits in Sweden containing Graphite projects including JORC Code Compliant Inferred Resource Estimate and Exploration Targets.
- ▶ During Q1 2012 Talga entered an option agreement with Teck Resources Limited (“Teck”) to purchase 100% subsidiary TCL Sweden Ltd (“TCL”). For option details see Appendix 4 and ASX release TLG: 28 Feb, 2012.
- ▶ TCL contains complementary assets including iron, graphite and iron oxide copper-gold (“IOCG”) projects with JORC Code Compliant Inferred Resource Estimates and Exploration Targets for Iron and Graphite.

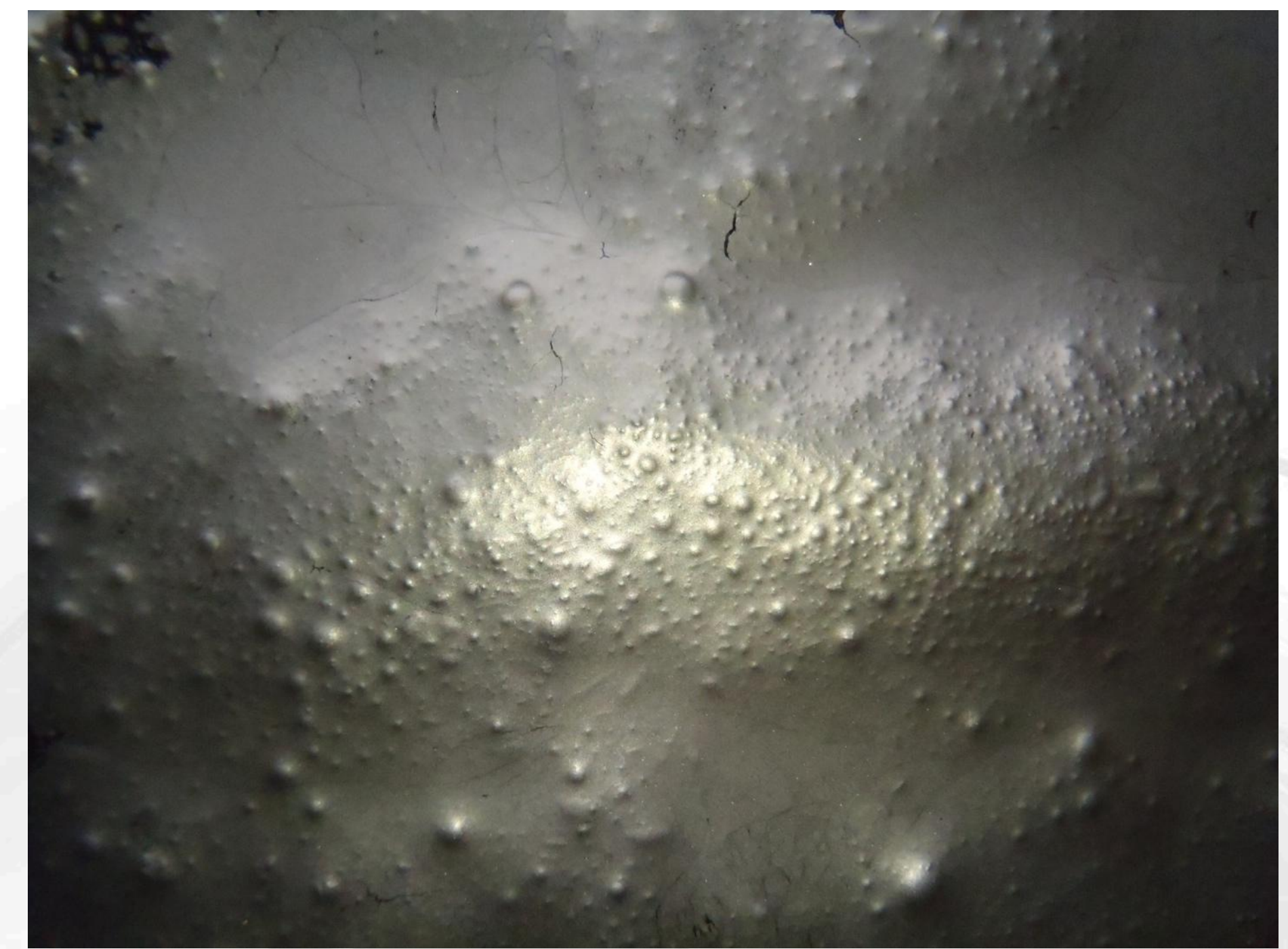




# What is Graphite?

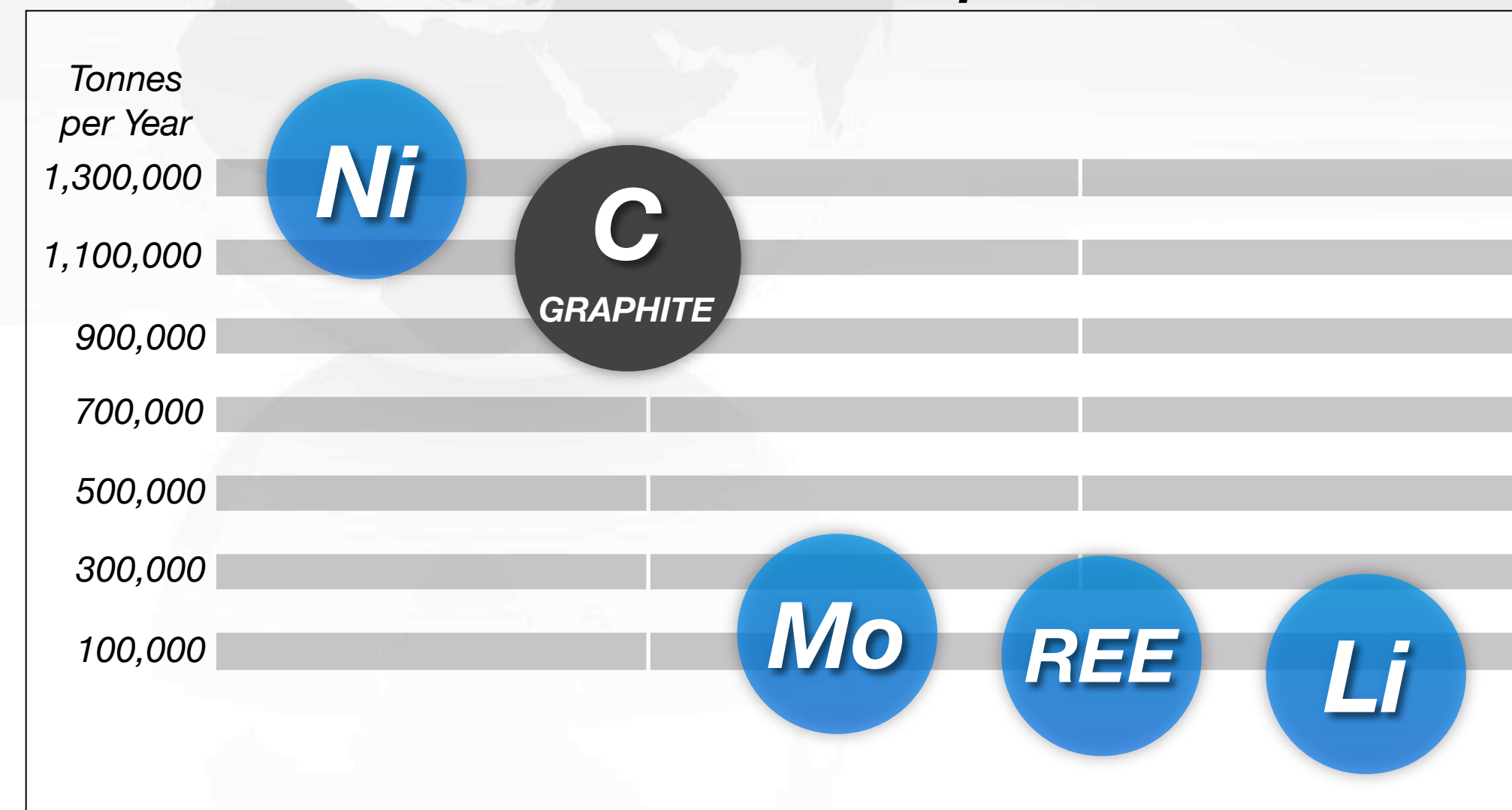
- ▶ Graphite is a naturally occurring mineral form of carbon.
- ▶ Graphite has highest melt point in nature 3600°C
- ▶ Graphite can be used to form Graphene, 200x strong as steel
- ▶ Worldwide “Graphite” market estimated to be worth US\$12B/yr\*:  
Steel & Refractories 41%, Carbon Fibres-Brushes-Batteries 21%, Automotive Parts 14%  
Lubricants 14%, Other Graphite Products 10%
- ▶ Natural graphite market (1.1Mt C) is similar volume to Nickel market (1.3Mt Ni) and much bigger than Lithium and Rare Earths
- ▶ Traditional graphite markets in steel production are strong; growth 5% annum.
- ▶ New markets opening in mobile and stationary battery production where graphite is significant component of Li-ion batteries

\*Source: “The World Wide Amorphous Graphite Market” Asbury Carbons, World Graphite Conference Dec 6-7 2011



**Graphite float from cutting diamond drill core at Talga's 100% owned graphite project in north Sweden.**

## Estimated Worldwide Natural Graphite Market in 2011

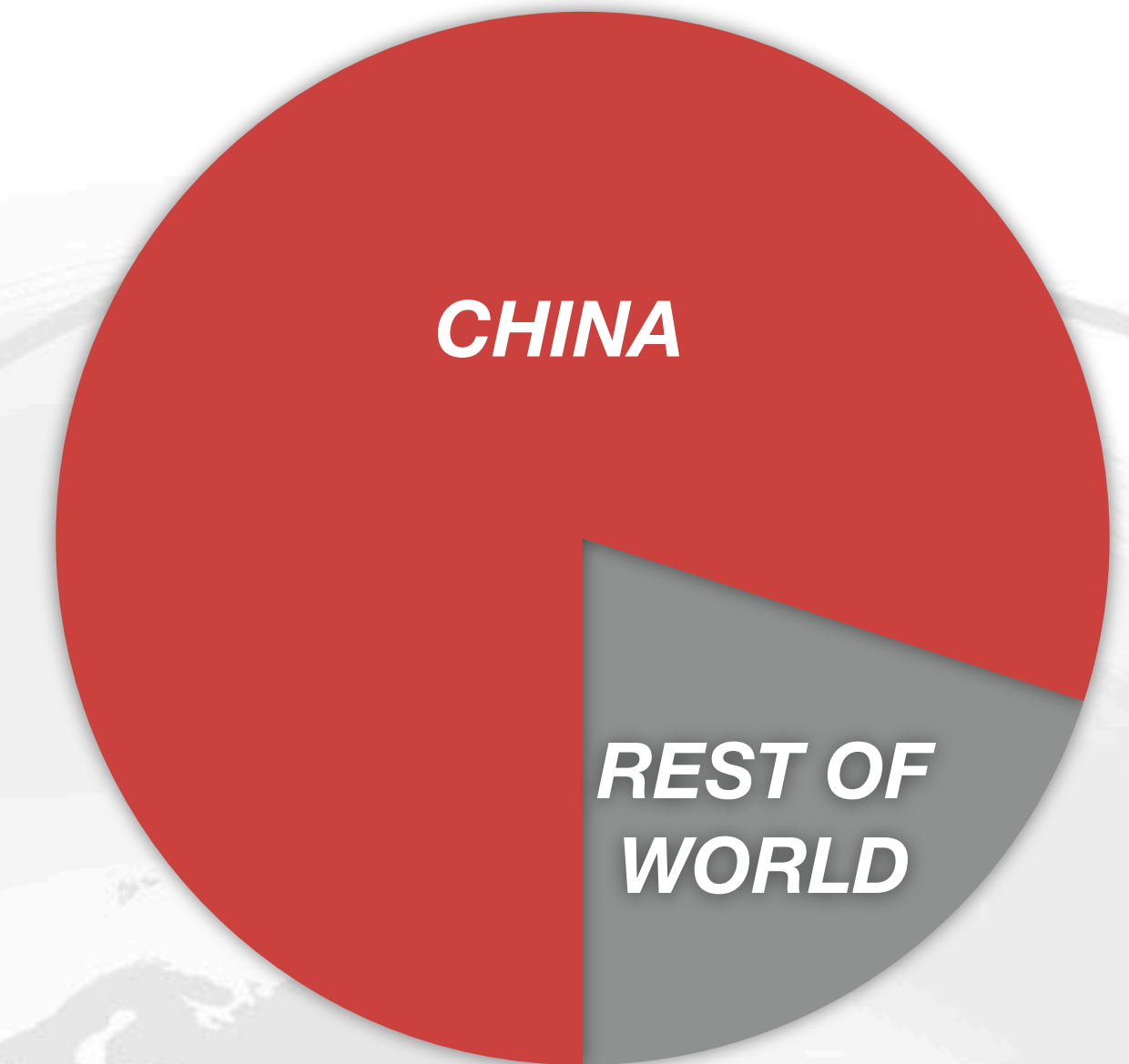




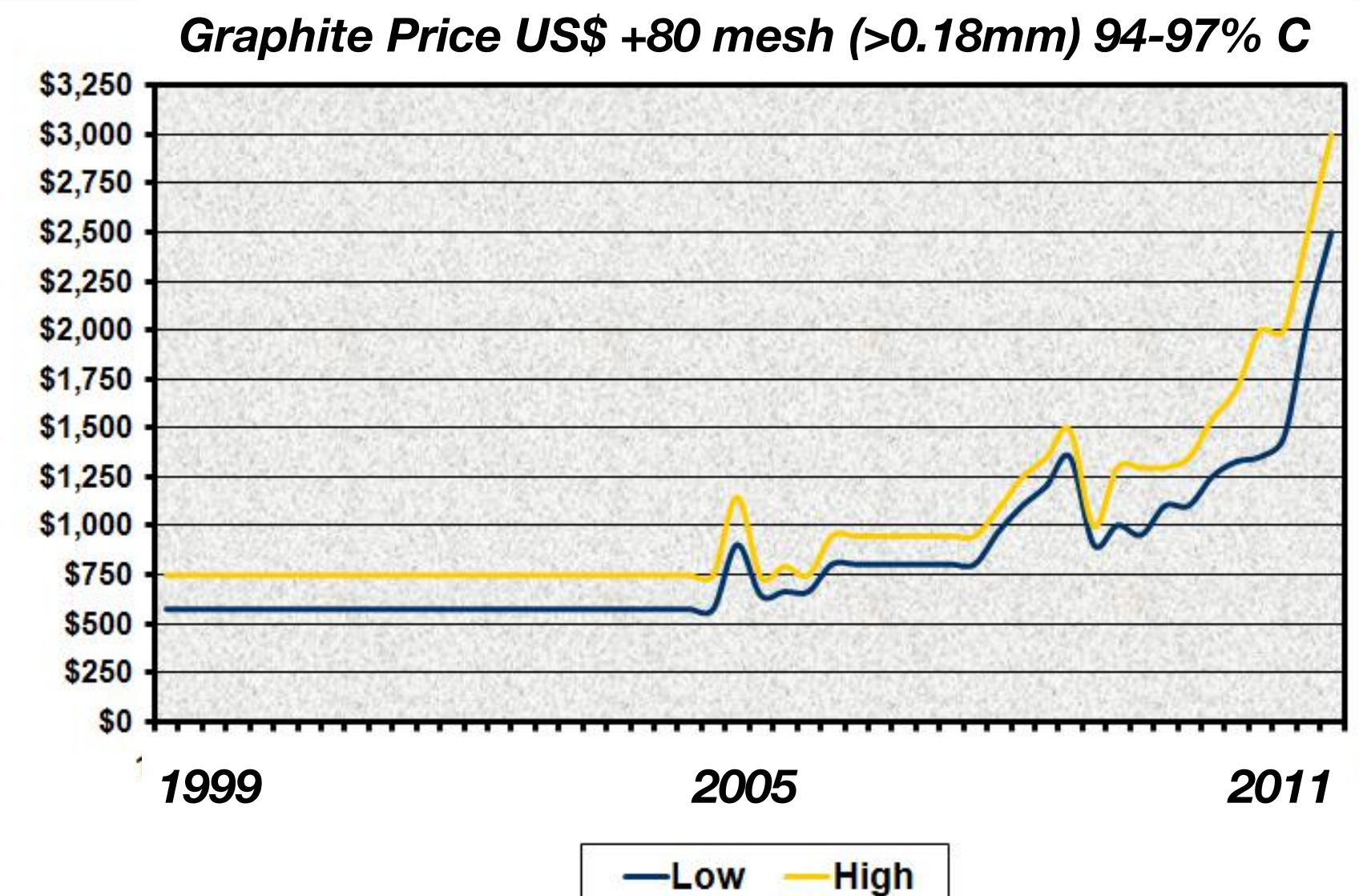
# Why Graphite?

- ▶ World natural graphite supply is 80% from China
- ▶ Chinese exports decreased under new tariffs and regulations, and demise of near surface high grade deposits
- ▶ Graphite declared a “Strategic Mineral” akin to Lithium and REE’s by USA and EEC
- ▶ Li ion batteries is EV’s can use up to 90kg graphite each
- ▶ Graphite prices risen strongly since 2005 and consumers wanting to lock in reliable, timely and high quality supply outside of China continue search for new sources of supply
- ▶ Compulsory growth’ - some countries legislating increased electric vehicles use (USA, Germany)

## World Natural Graphite Production



Source: “Graphite Red Alert” Industrial Minerals, March 2012





# New Demand Driver

- ▶ New graphite markets opening in ‘green energy’ as takes up to 30x more graphite than Li to make a Li ion battery
- ▶ Global Demand for Li-Ion Batteries Expected\*\* to Grow 447% to 2015
- ▶ Government mandated growth where countries have legislated minimum electric vehicle targets for 2015 and 2020
- ▶ Li-ion industry exploding with declarations of vital national interest, significant subsidies and the building of giant new factories worldwide to produce Li-ion technology batteries

\*\*January 23, 2012 – IDC Energy Insights “Business Strategy: Lithium Ion Manufacturing Global EI232266”

Drive

March 8, 2012 – Snapshot of media announcing Mercedes adoption of electric power across most of range, supporting projected high growth for Li-ion battery market and associated consumption of graphite

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## Mercedes to go hybrid on sedans, SUV

Joshua Dowling  
March 8, 2012

[Comments 3](#)



**Flagship S-Class will also have plug-in hybrid power.**

After years of dismissing hybrid power as a passing fad, Mercedes-Benz has confirmed it will adopt petrol-electric power for most of its passenger cars and SUVs as new models come on stream.

The company has also revealed that the next generation of Mercedes-Benz's S-Class limousine – due in showrooms in 2013 – will be available as a plug-in hybrid, able to travel about 25km on electricity alone before switching to petrol power.

The result? A limousine that Mercedes estimates will use less petrol than a Toyota Prius: 3.2L/100km by its calculations.

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**Reviewed: Kia Soul+**



★★★★☆  
New engine makes for an improved package but more work is still needed.

USED CAR REVIEWS



# Sweden Graphite Projects

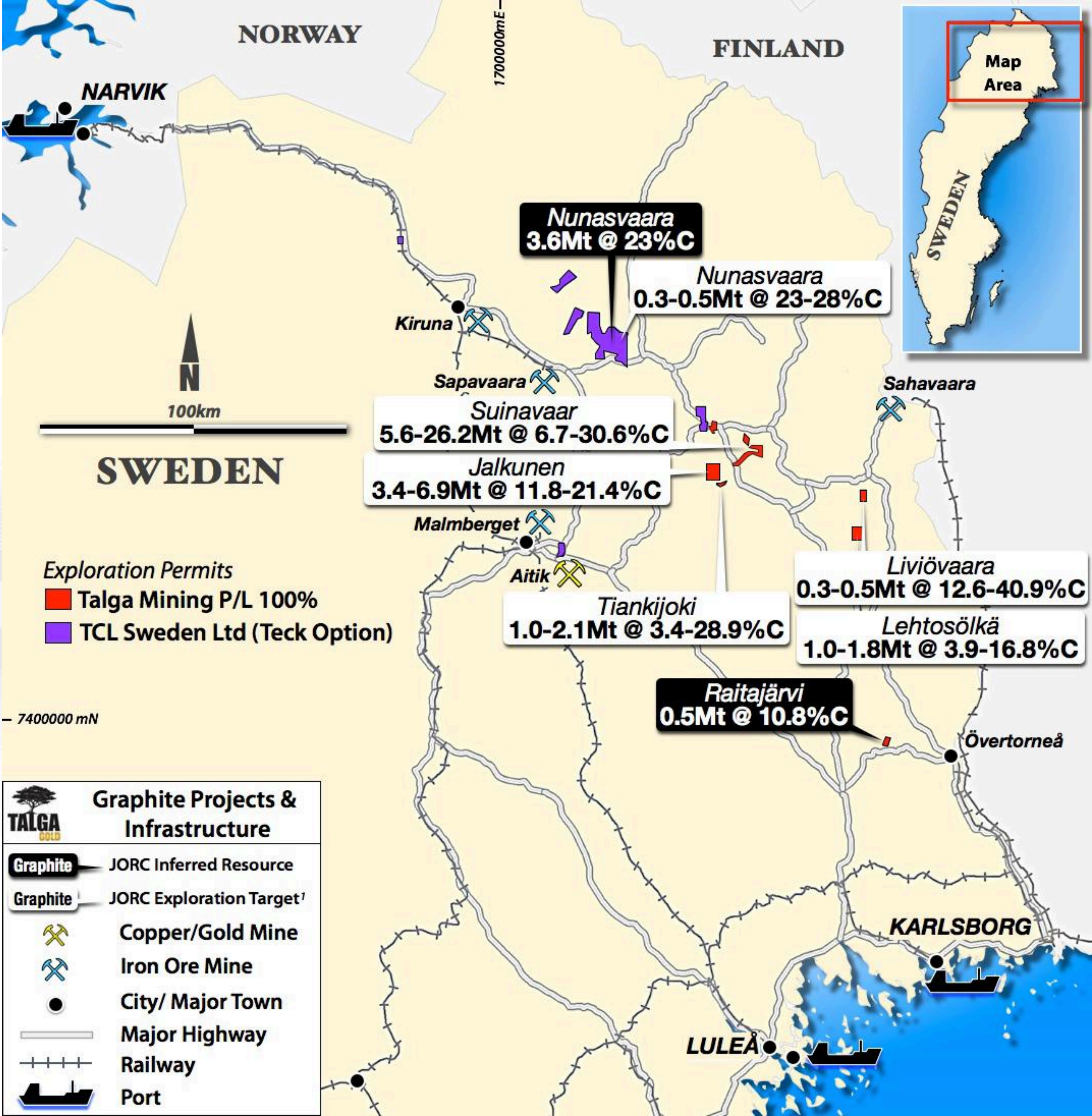
## JORC Code Inferred Resource Estimates

Nunasvaara	3.6Mt @ 23.0% C
Raitajärvi	0.5Mt @ 10.8% C
Total	4.1Mt @ 21.5% C

## Plus Additional

Exploration Target<sup>1</sup> Total (to 50m depth)  
11.6-38.8Mt @ 3.4-40.9% C

1 JORC Code compliant Exploration Targets are calculated using data from selected historic drill holes completed at each project combined with geophysical (slingram) surveys. Downhole thickness are calculated from historic drillhole data using only minimum continuous downhole thicknesses of >3.5m. Mineralised intervals have been corrected to interpreted true thickness with an error factor of 25% applied to account for potential along strike and down dip variation. Potential strike length calculations are based on geophysical anomaly shapes and strengths. A vertical mining thickness of 50m has been assumed and grade ranges determined by applying weighted averages to upper and lower 25-40% of assay populations. A standard SG of 2.6 g/cm3 was applied. The JORC Code compliant Exploration Targets are based on historic geological work that pre-date the creation of the JORC Code and so the potential quantity and grade of the Exploration Targets is conceptual in nature, there has been insufficient interpretation to define a JORC Code Mineral Resource and it is uncertain if further exploration and interpretation will result in the determination of a JORC Code Mineral Resource.





# Nunasvaara *(Option to 100%)*

## GRAPHITE

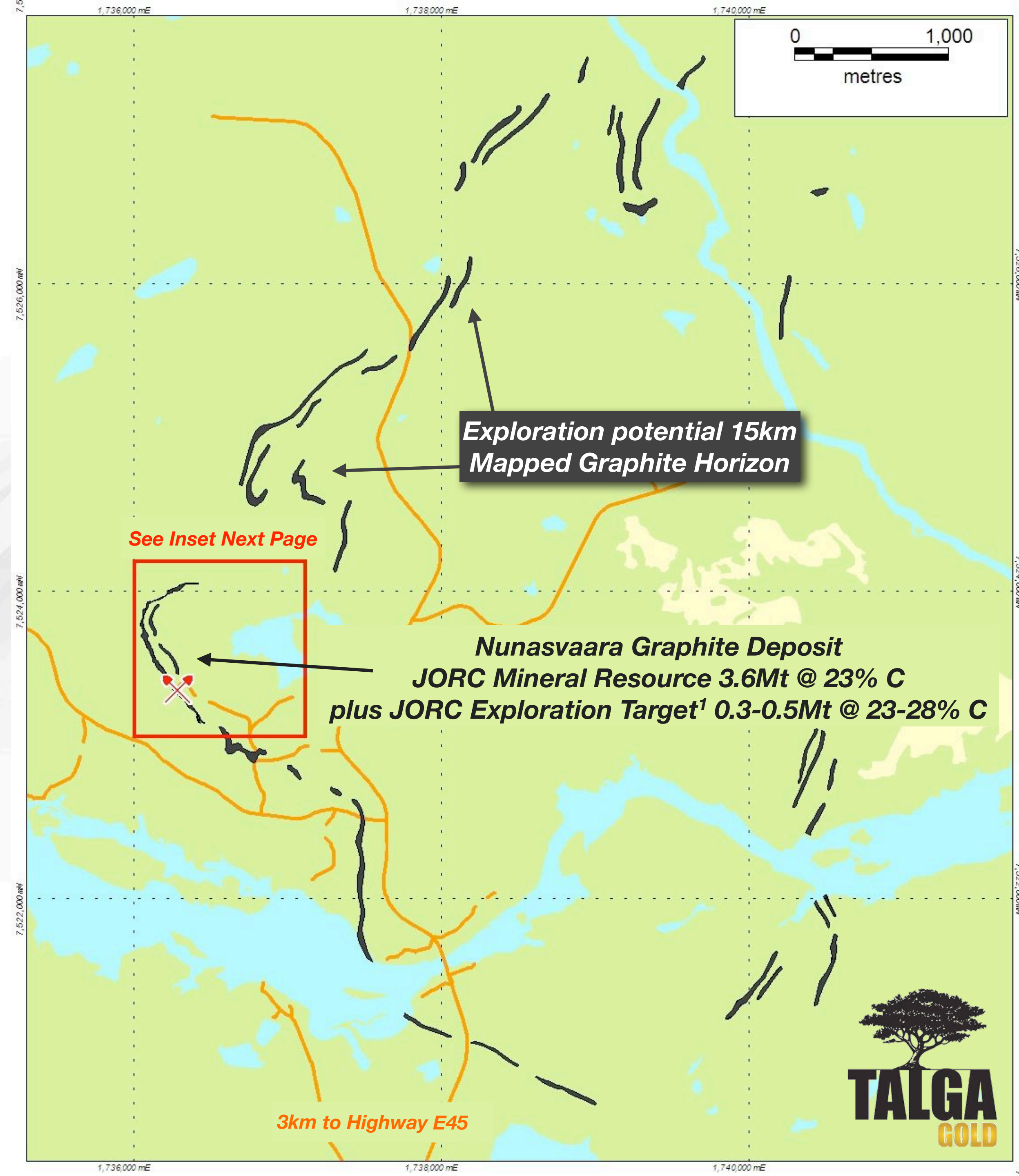
JORC Code Compliant Inferred Resource Estimate

**Nunasvaara 3.6Mt @ 23.0% C**

JORC Code Compliant Exploration Target<sup>1</sup>

**Strike Extension 0.3-0.5Mt @ 23-28% C**

- ▶ Highest graphite grade mineral resource in world
- ▶ Resource estimate based on 17 of 21 diamond drill holes for 1,677.2m over 700m strike length with 1970-82 drilling by Sweden Geological Survey and LKAB Prospecting AB
- ▶ Open at **depth** and along **strike**
- ▶ Growth potential: 15km mapped but untested graphite horizon





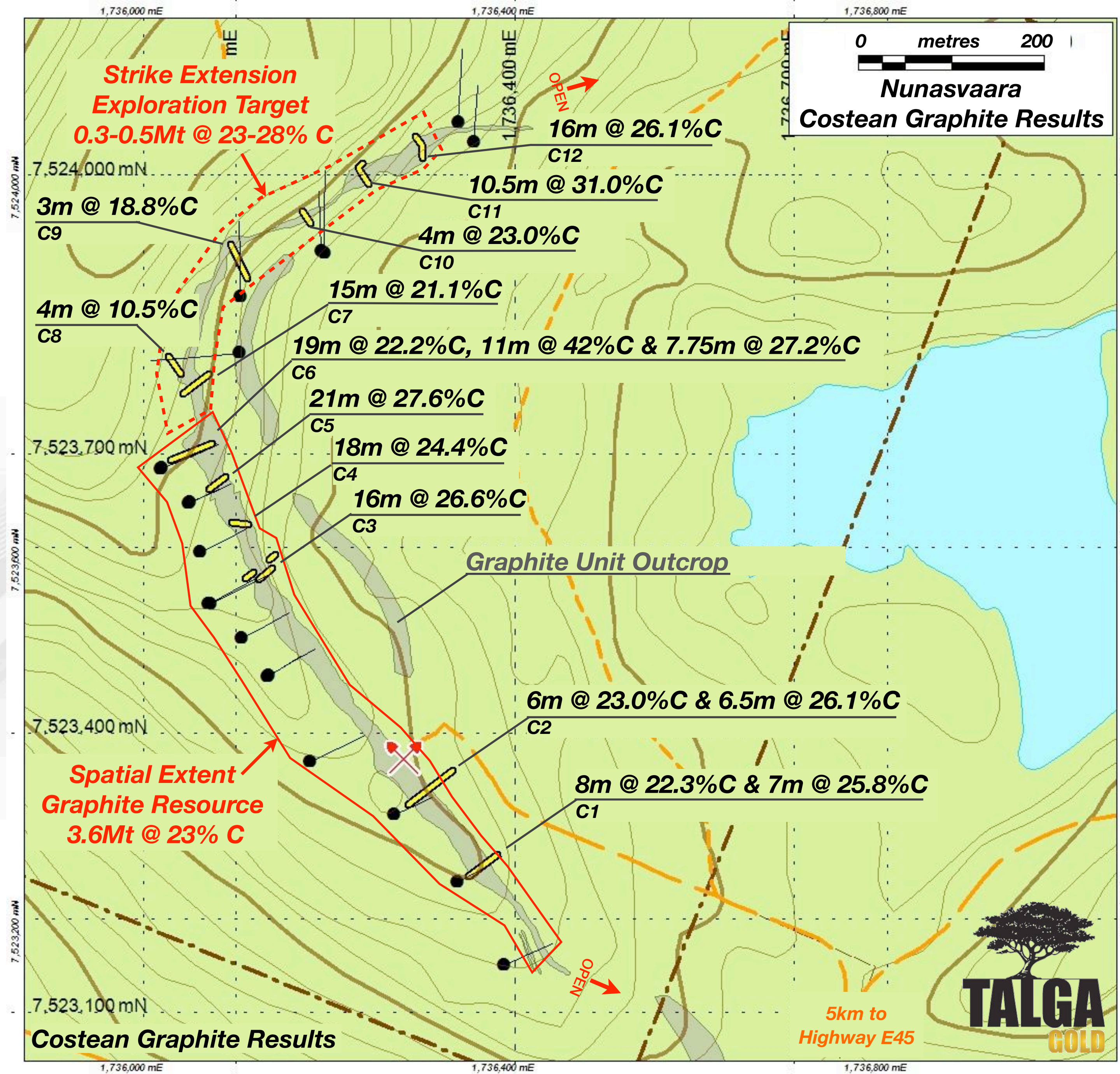
# Nunasvaara

## COSTEANS

### Graphite Mineralisation from Surface

- ▶ 12 trenches/costeans\* and bulk sampling during show mineralisation **from surface**
- ▶ Graphite flake size historically reported as amorphous but also as ranging 0.06-1.0mm so essentially untested.
- ▶ Current resource over only 700m strike, remains open over 15km mapped outcrop
- ▶ Distance to: Highway and grid power = 5km, Town = 15km, Rail = 23km, Port = 190km, International airport = 61km

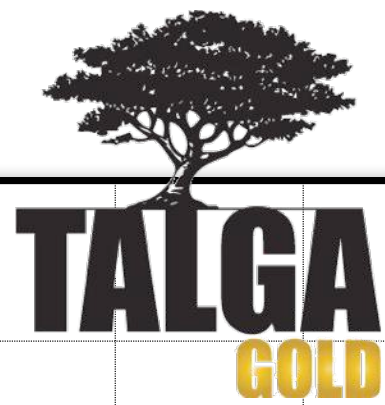
\*Trench/Costean Data: Trenches/costeans selectively sampled as 1-2m composites bound by lithological contacts and visual graphite grade. Many intervals end in mineralisation. Intervals calculated here using 2.5% C cut-off grade with no internal dilution. Intervals >3m plotted.





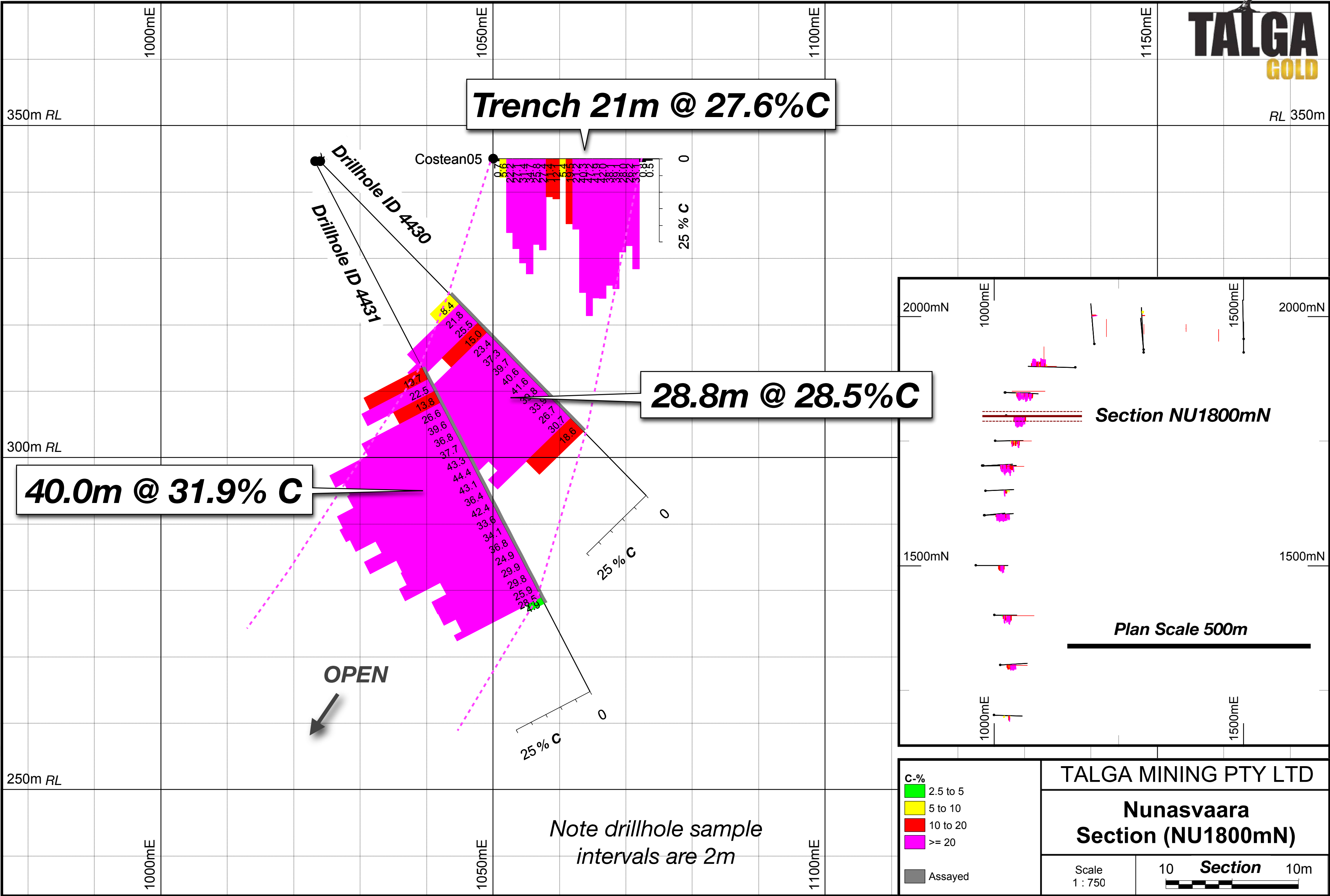
# Nunasvaara

## GRAPHITE



- ▶ Previous drilling at Nunasvaara on 50m and 100m sections
- ▶ Historic drilling highlights on adjacent sections to 1800mN include:

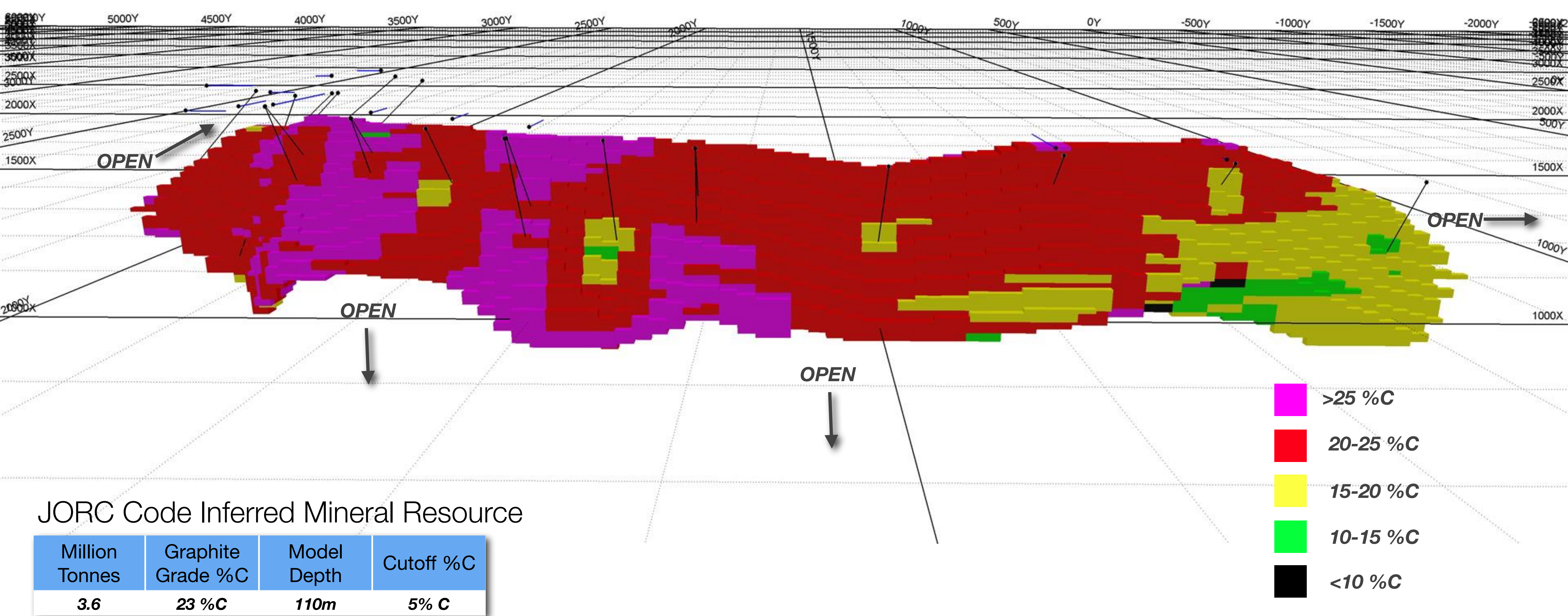
- 50m @ 24% C** Hole ID 4542 from 47m
- 40m @ 25% C** Hole ID 4434 from 73m
- 44m @ 22% C** Hole ID 4545 from 79m
- 31m @ 22% C** Hole ID 4427 from 41m
- 28m @ 26% C** Hole ID 4428 from 49m





# Nunasvaara Resource Block Model

**GRAPHITE**





# Raitajärvi (Talga 100%)

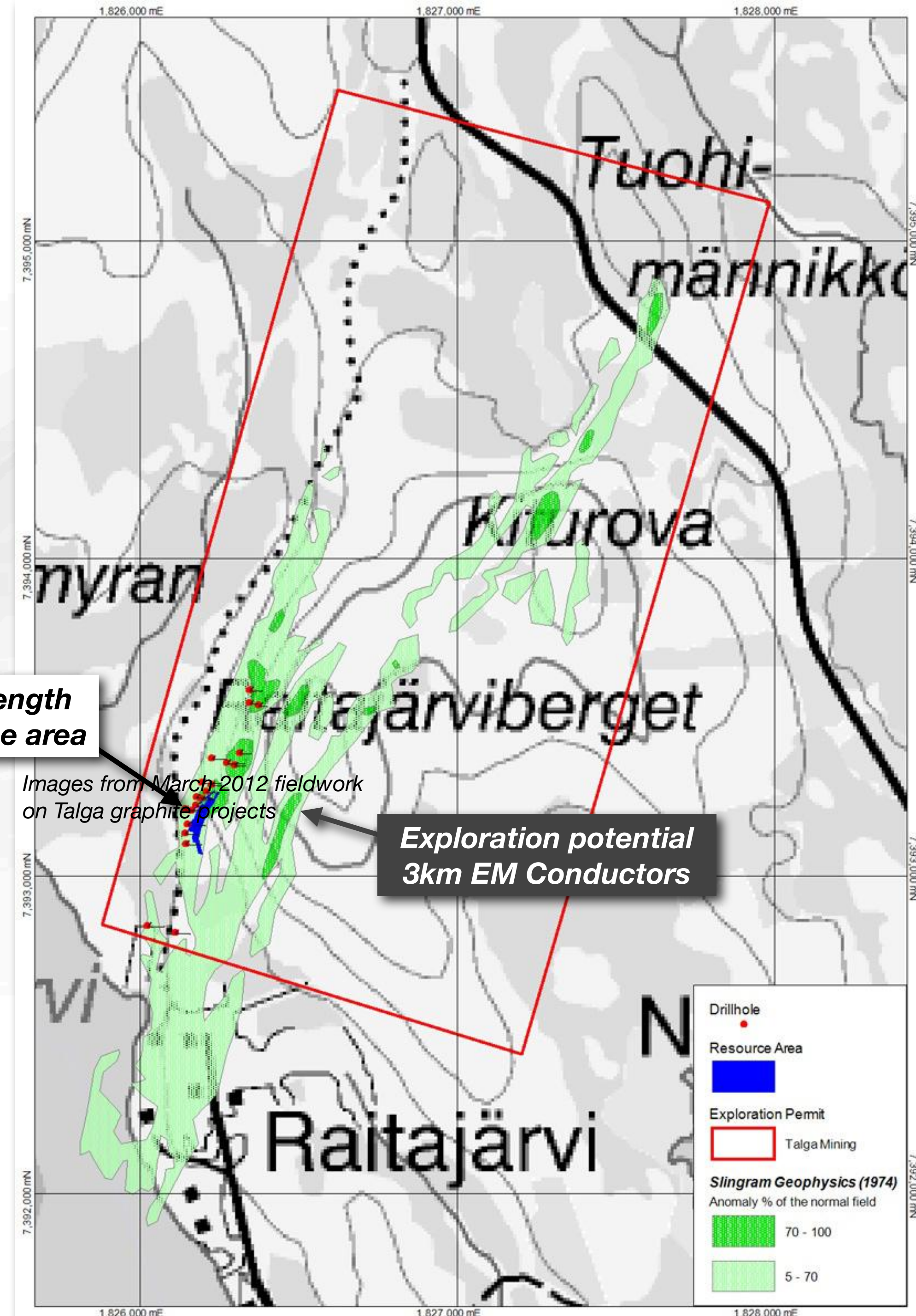
- ▶ Delineated using 13 diamond drill holes over 200m strike length from a total 20 holes drilled by SGU
- ▶ JORC Code Compliant Inferred Resource Estimate 0.5Mt @ 10.8% C Open at depth and along strike
- ▶ Growth potential: 3km mapped EM conductors
- ▶ Predominant crystalline graphite, coarse flake size and upgradeable to >99%C conc.
- ▶ Distance to: Highway and grid power = 2km, Town = 25km, Rail = 28km, Port = 100km



**200m length  
Resource area**

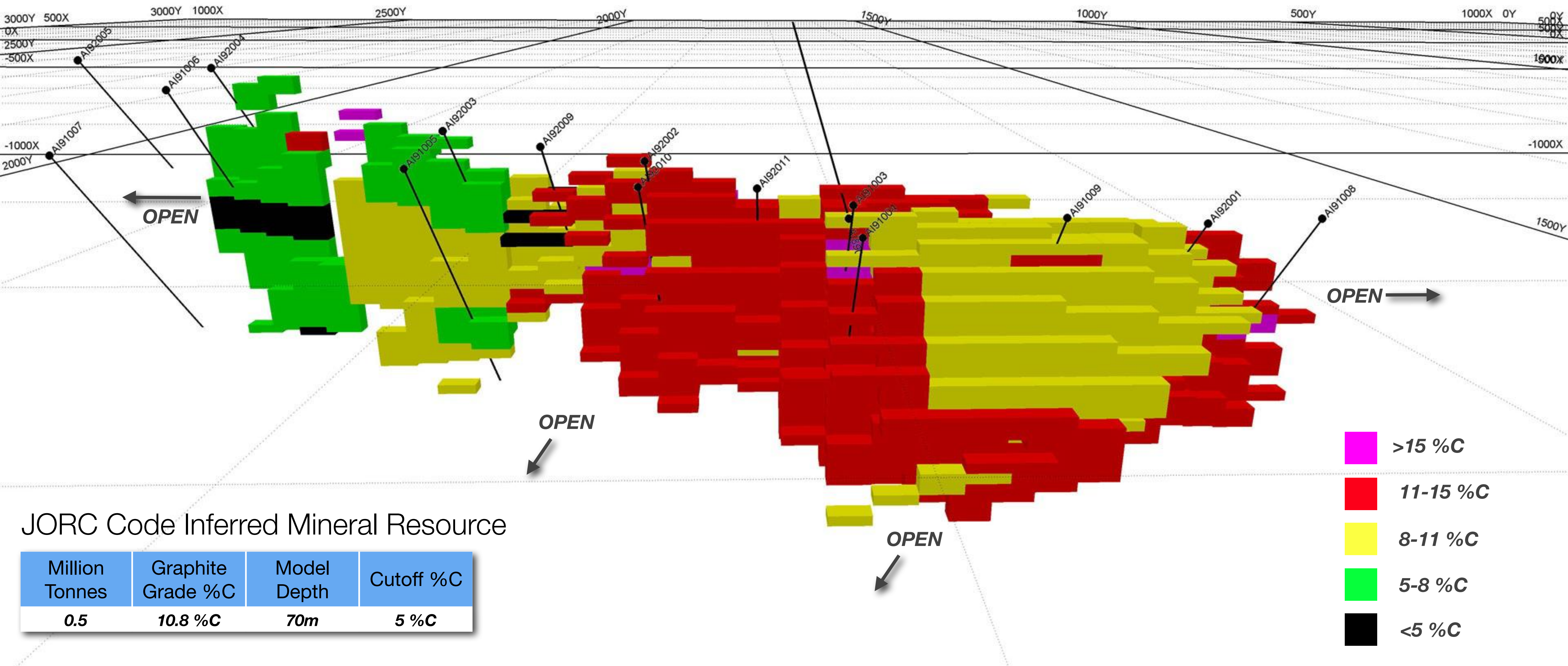
Images from March 2012 fieldwork  
on Talga graphite projects

**Exploration potential  
3km EM Conductors**





# GRAPHITE



Million Tonnes	Graphite Grade %C	Model Depth	Cutoff %C
0.5	10.8 %C	70m	5 %C

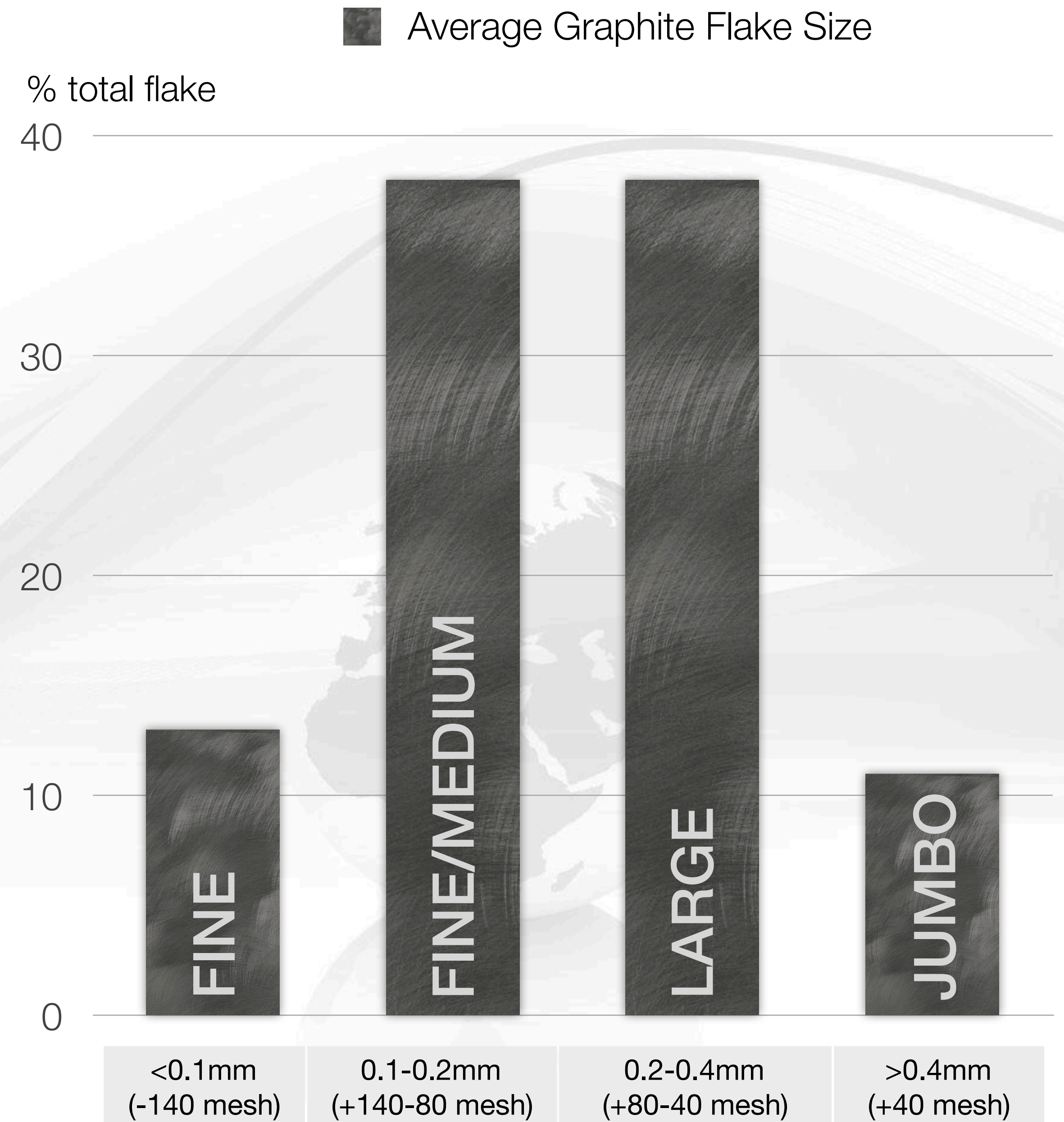


# Metallurgy

- ▶ Previous work on 87 petrographic samples indicate crystalline graphite and normal distribution (see appendix 2 for details) around medium to large specifications.
- ▶ >85% of graphite flake averages “Fine/Medium” to “Jumbo” size at concentrate grades 90-93% C.
- ▶ Preliminary upgrade test result 99.06 %C indicates battery-grade potential of belt



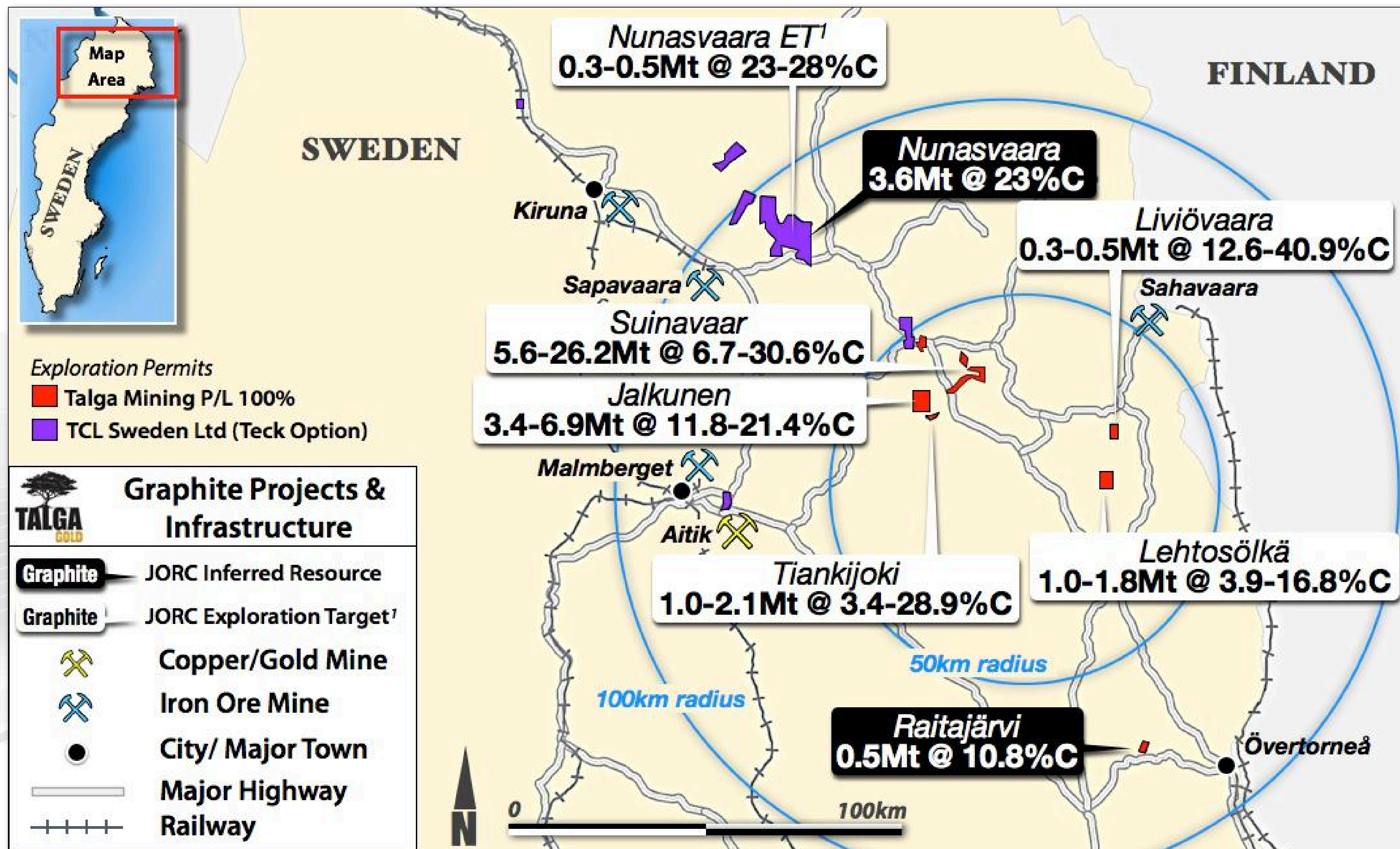
**Photomicrograph: Raitajärvi Graphite Flakes**  
**100x magnification**





# Exploration Projects (TLG 100%)

- In addition to the Nunasvaara and Raitajärvi deposits, Talga has **multiple graphite projects with location synergies**
- 5 JORC Code compliant graphite Exploration Targets<sup>1</sup> **11.6-38.8Mt @ 3.4-40.9% C (to 50m depth)** within 100km radius

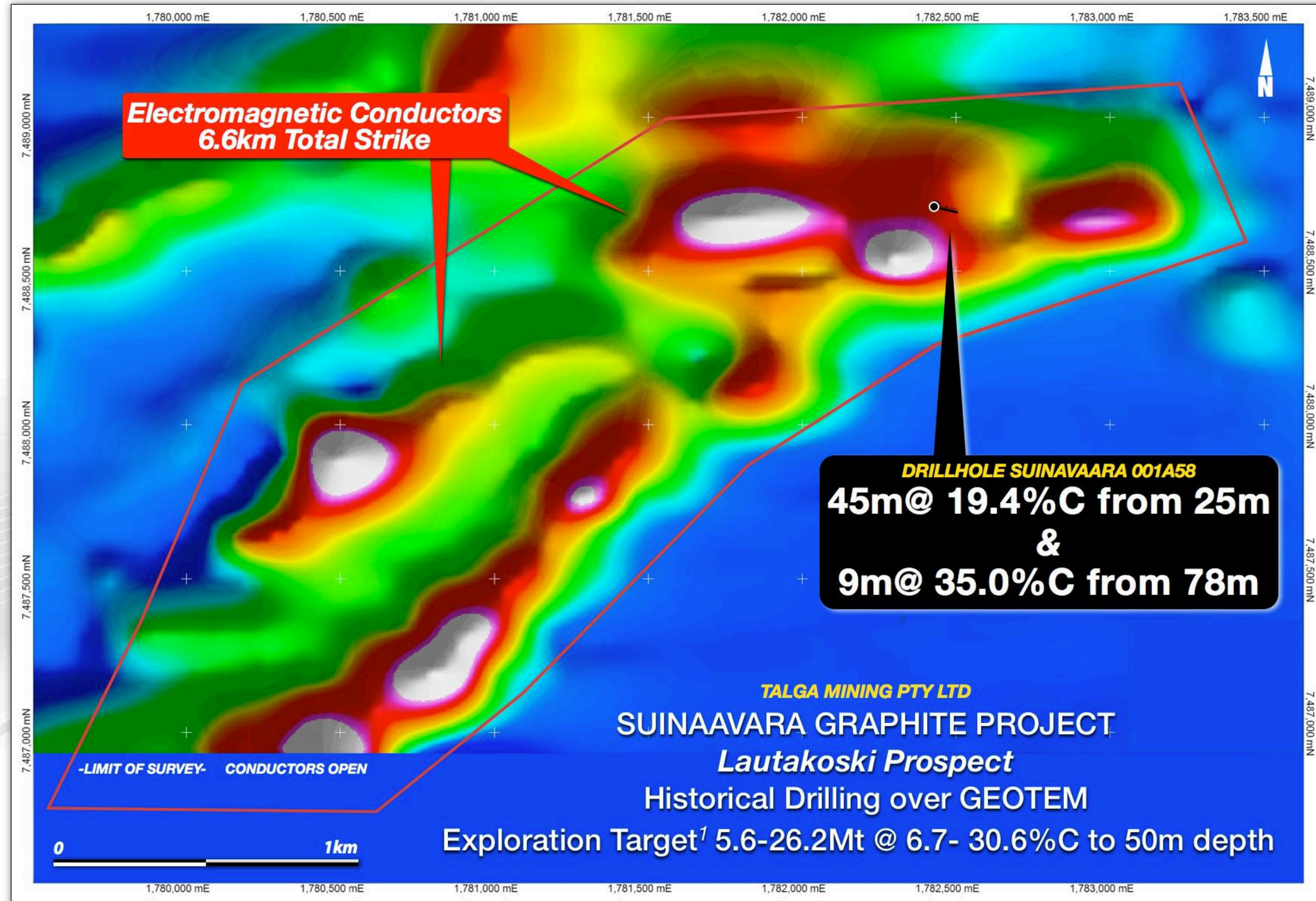




# Exploration Projects

## Suinavaar Project (100% TLG)

- ▶ Historic diamond hole by SGU on base metal target intersects significant graphite bearing interval up to 70m width within overall 6.6km striking geophysical conductor
- ▶ Drilling highlights include:
  - 45m @ 19.4% C from 25m above a zone grading
  - 9m @ 35.0% C graphite
- ▶ Exploration Target<sup>1</sup> 5.6 - 26.2Mt @ 6.7-30.6%C (to 50m depth)

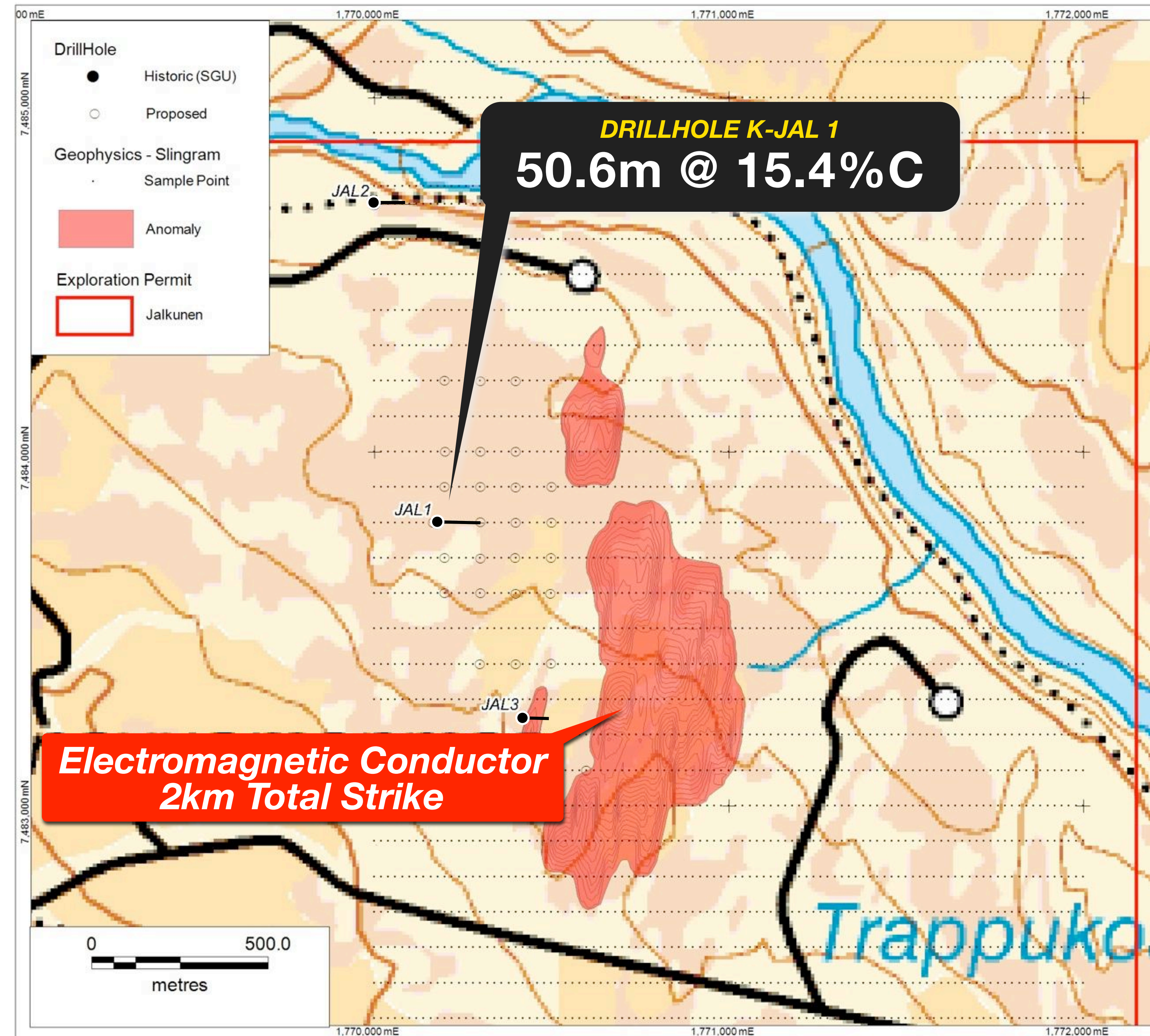




# Exploration Projects

## Jalkunen Project

- ▶ 2km long electromagnetic conductor
- ▶ 3 historic diamond holes by LKAB for 612.25m
- ▶ Graphite bearing schist intercepted over 50m
- ▶ Assays returned **50.6m @ 15.4% C**
- ▶ 9 thin section studies indicate graphite flake sizes 0.05 - 0.15mm
- ▶ Geophysics and drilling data used to define Exploration Target<sup>1</sup> **3.4-6.9Mt @ 11.8-21.4% C (to 50m depth)**





# Exploration Projects

## Lehtosölkä

- Exploration Target<sup>1</sup> **1.0 - 1.8Mt @ 3.9 - 16.8%C**
- 5 historic diamond holes by SGU
- Best graphite intercept **19.5m @ 7.5% C**
- Graphite flake sizes 0.1 mm and 0.3-0.4 mm.  
Approximately 20% >0.4 mm (Jumbo)

## Liviövaara

- Exploration Target<sup>1</sup> **0.3 - 0.5Mt @ 12.6 - 40.9%C**
- 13 historic diamond holes by SGU and Anglo
- Graphite best intercepts: 4.6m @ 39.9% C  
8.4m @ 30.2% C
- Graphite flake sizes <0.05 - 0.1mm
- 700m strike electromagnetic conductor

## Tiankijoki

- Exploration Target<sup>1</sup> **1.0 - 2.1Mt @ 3.4 - 28.9% C**
- 14 historic diamond holes by LKAB, 5 intercepted graphite bearing schist
- Graphite best intercept **25.7m @ 27.7% C**
- Graphite flake sizes <0.05mm -0.4 mm (Jumbo)





# Advantage North Sweden

- ✓ **Technical** High grades graphite, JORC Mineral Resources established, substantial drilling on exploration targets
- ✓ **Transport** Excellent network of high quality road, rail and ports facilitate development , lower capex
- ✓ **Regulatory** Active, pro-mining jurisdiction with low flat tax rates - minerals 0.2% corporate 28%
- ✓ **Markets** Local demand in Sweden, UK, Germany, France, Belgium and India
- ✓ **Resources** Highly trained local workforce and support industries, pro-mining attitudes
- ✓ **Environment** Well established mining province, new projects being permitted and mined



*Kiruna - Narvik Railway*



*Grid power near projects*

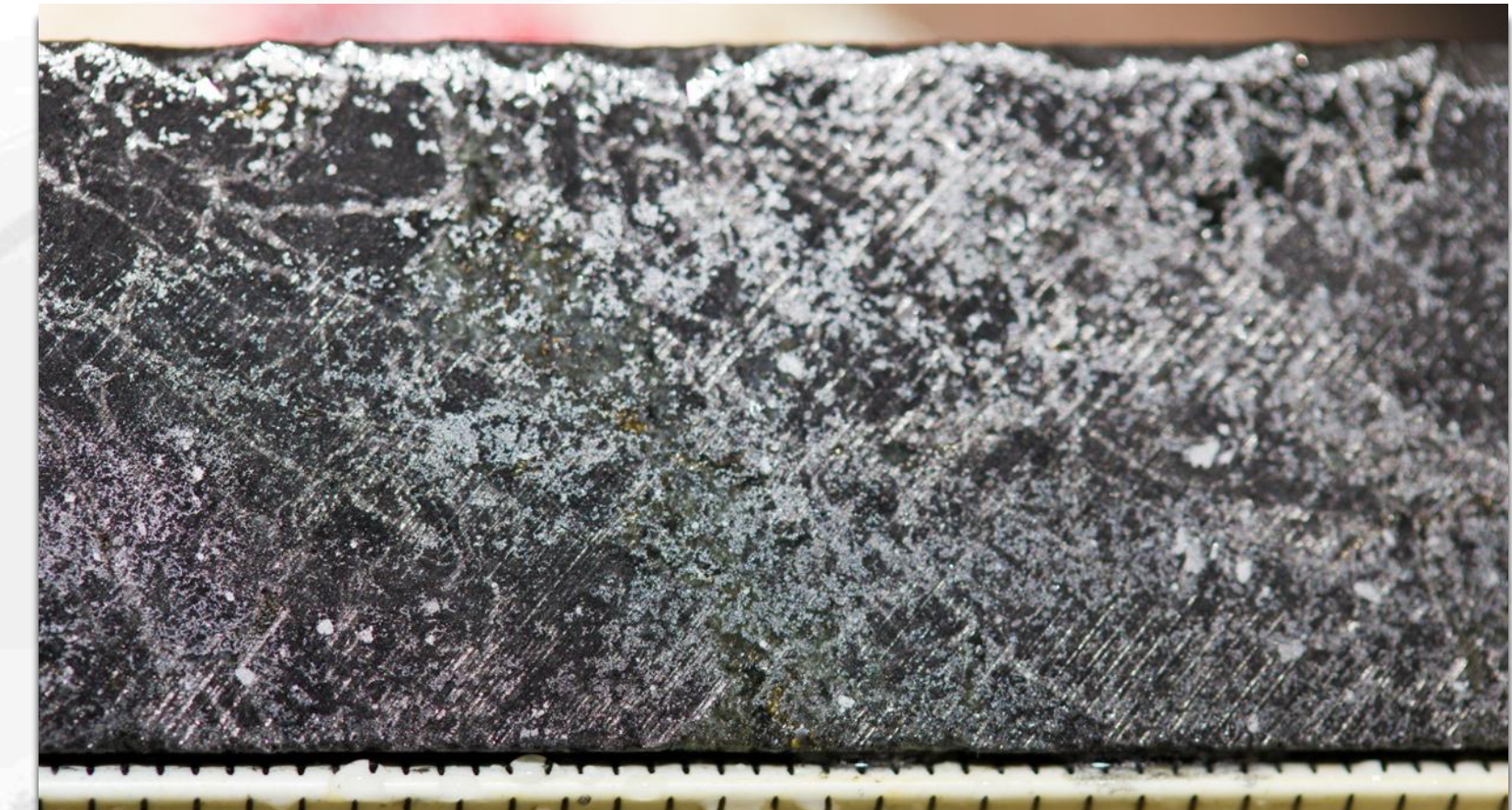


*Kiruna iron mine, North Sweden*



# ***Next Steps in 2012***

- ▶ Re-sample historic drill core for more detailed graphite characterisation and metallurgy - DONE
- ▶ Complete diligence and TCL Sweden Ltd acquisition
- ▶ Commence drilling to uplift status of inferred resources
- ▶ Commence drilling to uplift Exploration Targets into JORC status
- ▶ Complete new resource statements and commence scoping and economic studies
- ▶ Explore strategic and offtake partners



***Graphite flake in diamond drill core from Talga's 100% owned graphite project in north Sweden. Scale on ruler 1mm.***



***Cutting core from TLG projects archived at Swedish Geological Survey, Sweden Feb 2012***



# Graphite Deposit Peer Comparison



Published “N43-101 and/or JORC Code” Mineral Resources

Company	Deposit	Million Tonnes	Grade %C	Cut-off %C	SG	Contained Tonnes C	Market Cap US\$M
Northern Graphite Corp.	Bisset Creek	81.0	1.7	1	2.63	1,377,000	100-110
Focus Metals Inc	Lac Knife	7.9	15.7	5	2.87	1,240,300	75-90
<b>Talga Gold Ltd*</b>	<b>Nunasvaara</b>	<b>3.6</b>	<b>23.0</b>	<b>5</b>	<b>2.40</b>	<b>828,000</b>	<b>17-20</b>
Flinders Resources Ltd**	Kringel	6.9	8.8	7	2.70	607,200	90-100
Strategic/Mega	Uley	6.6	8.7	3.8	unpub.	574,200	16-18

## Notes

Deposit data from each company's last published JORC Code and/or N43-101 Mineral Resource estimates up to 1 March, 2012 and excluding resources without drilling

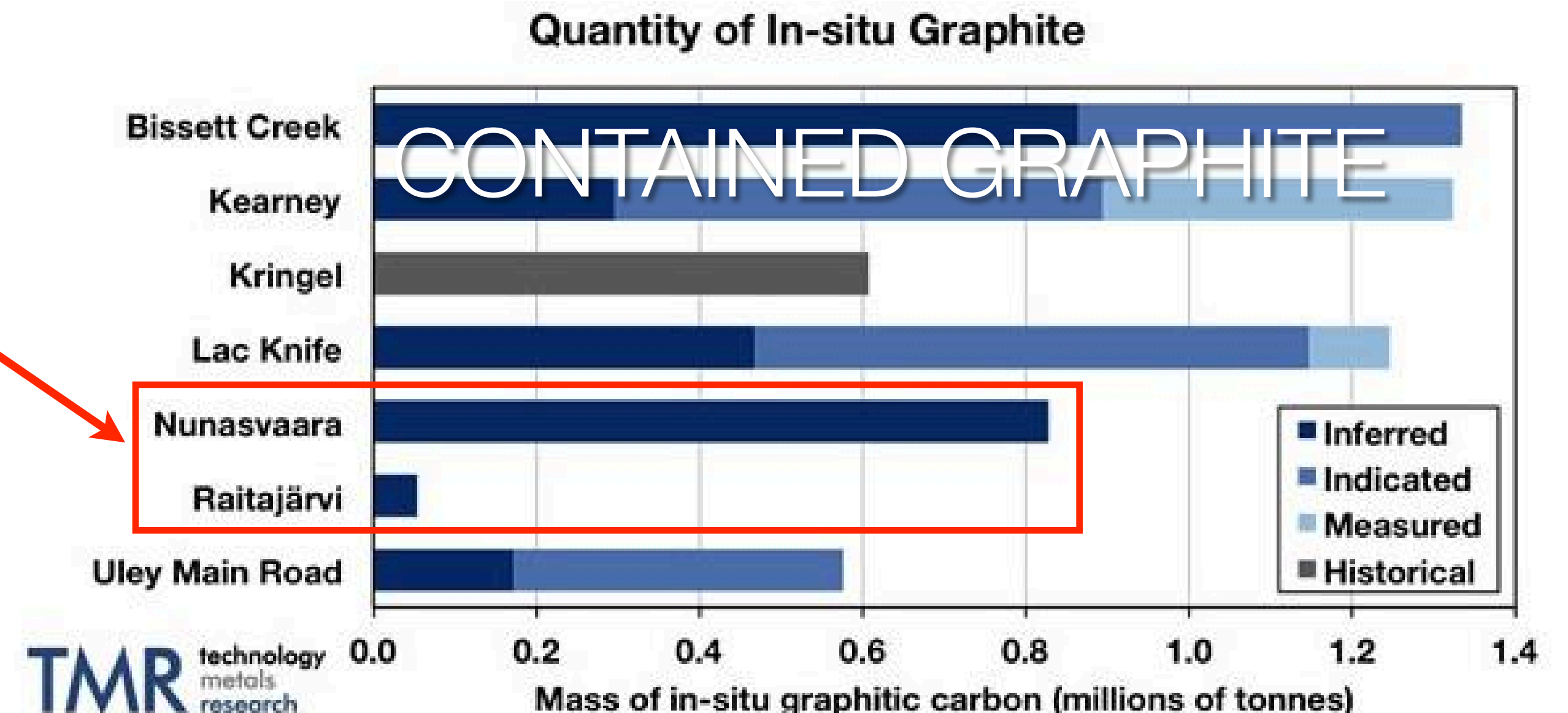
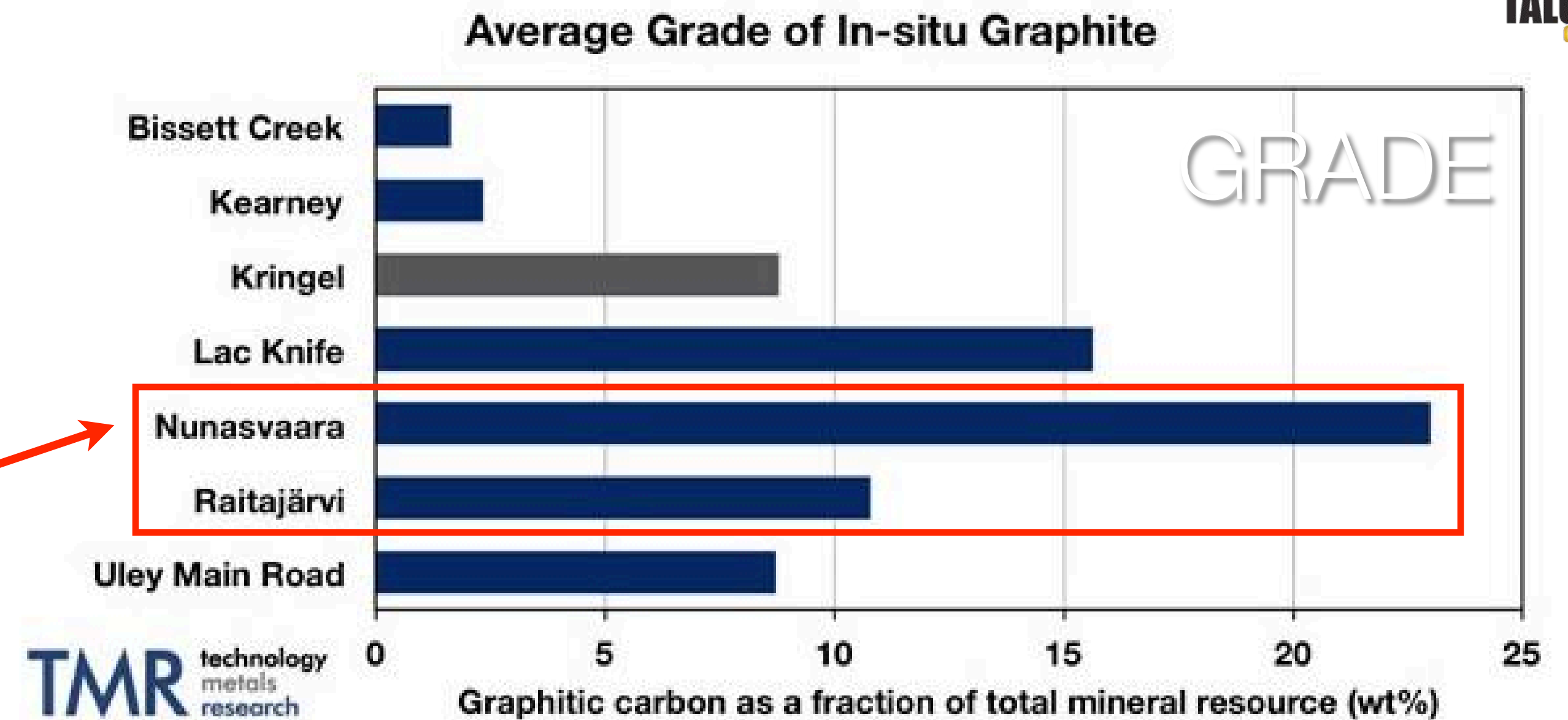
\*\*Flinders Resources included as relevant due to advanced stage, formality of converting to N43-101 and Sweden location, but note Kringel is total of 4 separate deposits

\*Talga has additional JORC Code compliant Inferred Mineral Resource at Raitajarvi of **0.5Mt @ 10.8%C** and additional Exploration Target inventory **7.0-13.8Mt @ 3.4-40.9% C** to nominal 50m depth and open, across adjacent projects based on diamond drill core sampling and geophysical results.



# Peer Comparisons

- ▶ Talga owns 2 of the only JORC/NI43-101 defined graphite deposits including the **Highest Grade** graphite resource in world
- ▶ This resource alone contains as much graphite as peers, without considering additional JORC code compliant 7-13.8Mt exploration target<sup>1</sup> based on previous drilling to upgrade test in 2012





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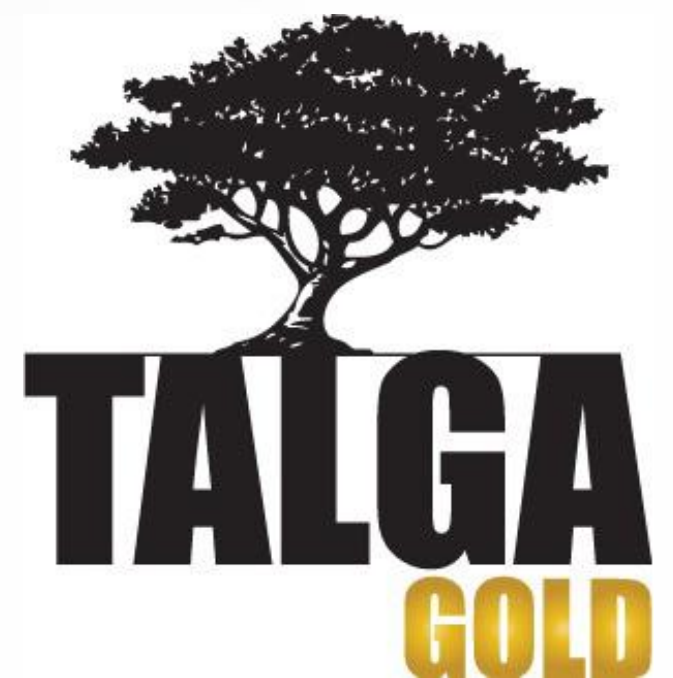
E: [mark@talgagold.com](mailto:mark@talgagold.com)

# Thank You

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[www.talgagold.com](http://www.talgagold.com)



## ASX:TLG





# Appendices



Appendix 1. Nunasvaara - Historic Drill hole Intercepts where  
>20% C over at least 25m downhole

Hole ID	Northing RT90	Easting RT90	Azimuth (True N)	Decl.	From (m)	To (m)	Interval (m)	Graphite %C
4542	7523683	1736019	65	62	47.00	97.20	50.20	24
4545	7523808	1736103	265	44	79.10	123.05	43.95	22
4434	7523538	1736070	61	60	72.50	113.00	40.50	25.3
4431	7523647	1736048	66	63	35.00	75.00	40.00	31.9
4427	7523461	1736134	60	46	40.55	71.55	31.00	22
4430	7523647	1736049	66	46	28.00	56.80	28.80	28.5
4425	7523311	1736269	64	47	22.00	50.00	28.00	21.3
4428	7523461	1736133	58	62	49.00	76.50	27.50	26.2
4429	7523538	1736072	63	46	63.00	89.00	26.00	24.6

- Drilling conducted by Swedish Geological Survey ("SGU") and the state owned mining company Luossavaara-Kiirunavaara AB ("LKAB").
- Analysis was completed on all mineralised drill intervals at standard two metre or in some cases <2 metre sections of core by the SSAB laboratory in Luleå (Graphite Carbon by Leco/IR detector) and the LKAB laboratory in Malmberget (sulphur and multi-elements by ICP acid digest).
- Mineralised intercepts are calculated using >2.5% C cutoff and are plotted on sections where interval >3m.

\*Drill holes selected where graphite grade >20% C over at least 25m downhole interval.

Appendix 2. Graphite flake size measurements from 87  
samples observed at Raitajärvi graphite deposit

Sampled Profile	<0.1mm (-140 mesh)	0.1-0.2mm (140 to 80 mesh)	0.2-0.4mm (80 to 40 mesh)	>0.4mm (+40 mesh)
3605N	10%	40%	50%	0%
2905N	10%	40%	50%	0%
2310N	10%	40%	50%	0%
2080N	20%	40%	30%	10%
1880N	20%	50%	30%	0%
1800N	10%	60%	30%	0%
1775N	10%	30%	40%	20%
1750N	10%	30%	40%	20%
1725N	10%	20%	40%	30%
1705N	20%	30%	30%	20%
1660N	10%	50%	30%	10%
1630N	20%	20%	40%	20%
1600N	10%	50%	30%	10%
<b>Weighted Ave.</b>	<b>13%</b>	<b>38%</b>	<b>38%</b>	<b>11%</b>



# Appendices

## Appendix 3

### ***Talga Gold Ltd Resource Estimation Methodology.***

#### ***Nunasvaara Graphite Deposit: Inferred JORC compliant Resource.***

Drill hole data used in the Nunasvaara Graphite Resource estimate comprised a total of 17 diamond holes for 1,677.2 metres drilled along the entire strike length of the deposit (700 metres). Drill hole sections were at 50-100m spacing with single hole or variably inclined fans completed on each section. A number of costeans were excavated along surface expression of the graphite outcrop and systematically sampled at 1m intervals. Analysis was completed on all mineralised drill intervals at standard two metre or in some cases <2 metre sections of core by the LKAB laboratory in Malmberget (sulphur and multi-elements) or SSAB laboratory in Luleå (Carbon Leco/IR detector). A local grid was established for drilling using government surveyors assisted by theodolite surveying equipment giving an estimated location error of approximately 1m. A bulk density of 2.40g/cm<sup>3</sup> and lower cut off 5% C was applied to all historical measurements while maximum vertical depth of 110 metres from surface was used. Interpretation on section was completed with the outlines wireframed together to form coherent validated shapes. The grade estimation methods was ID2 of values lying within validated wireframes (solids) with only the numbers from the individual wireframes/solids used for the interpolation. Parent block sizes were set at 5m (x), 20m (y) and 5m (z), with the sub-cell size down to half of the parent cell size. The resource estimate has been classified based on data density, data quality, confidence in the geological interpretation and confidence in the estimation.

#### ***Raitajarvi Graphite Deposit: Inferred JORC compliant Resource***

Drillhole data used in the Raitajarvi Graphite Resource estimate comprised a total of 13 diamond holes for 840 metres drilled along the entire strike length of the deposit (320 metres). Drill hole section spacing was at 20 - 80 metre centres with holes spaced approximately 15 - 50 metres apart on each section. Analysis was completed on all mineralised drill core intervals as composite 0.6m to 3.2m half core by the Minpro AB laboratory in Storå (Carbon and sulphur - Leco/IR detector) or SGAB Analys laboratory in Luleå (ICP Fire Assay Au, Ag, Pt, Pd). A local grid was established for drilling using government surveyors assisted by theodolite surveying equipment giving an estimated location error of approximately 1m. A bulk density of 2.40g/cm<sup>3</sup> and lower cut off 5% C was applied to all historical measurements while maximum vertical depth of 70 metres from surface was used. Interpretation on section was completed with the outlines wireframed together to form coherent validated shapes. The grade estimation methods was ID2 of values lying within validated wireframes (solids) with only the numbers from the individual wireframes/solids used for the interpolation. Parent block sizes were set at 5m (x), 20m (y) and 5m (z), with the sub-cell size down to half of the parent cell size. The resource estimate has been classified based on data density, data quality, confidence in the geological interpretation and confidence in the estimation.

## Appendix 4

### ***TCL Sweden Ltd Option***

Talga Gold Limited (“Talga” or “the Company”) has entered an option agreement to purchase TCL Sweden Ltd (“TCL”), a 100% subsidiary of Teck Resources Limited (“Teck”). TCL contains assets including iron, graphite and iron oxide copper-gold (“IOCG”) projects in northern Sweden. Talga has paid US\$45,000 for the option until 30 June 2012, to purchase 100% of TCL for US\$433,500 and a 1% Net Smelter Royalty (“NSR”). An underlying 2% NSR is due to prior owner Phelps Dodge upon production.





# References & Qualified Persons



## ***References & Mineral Resource Qualification***

1 The JORC Code compliant Exploration Targets are not to be construed as JORC Code compliant Mineral Resources. The JORC Code compliant Exploration Targets are based on historic diamond drill testing, airborne and ground geophysics, trench and bulk sampling conducted by the Geological Survey of Sweden and associated state companies that pre-date the creation of the JORC Code and so the potential quantity and grade of the Exploration Targets must be considered conceptual in nature. There has been insufficient exploration to define a JORC Code Mineral Resource and it is uncertain if further exploration, metallurgy and interpretation will result in the determination of a JORC Code Mineral Resource.

2 Source: “Comment; Graphite - Red Alert” Industrial Minerals Magazine 14 February 2012.

## ***Competent Persons Statements for Exploration Targets and Mineral Resources***

The information in this report that relates to Exploration Results is based on information compiled and reviewed by Mr Dylan Jeffriess who is a member of the Australian Institute of Geoscientists. Mr Jeffriess is a consultant to the Company and has sufficient experience which is relevant to the activity to which he is undertaking to qualify as a "Competent Person" as defined in the 2004 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves” (“JORC Code”). Mr Jeffriess consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information in this report that relates to Resource estimation is based on information compiled and reviewed by Mr Simon Coxhell. Mr Coxhell is a consultant to the Company and a member of the Australian Institute of Mining and Metallurgy. Mr Coxhell has sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this document and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves” (“JORC Code”). Mr Coxhell consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.