



A Battery Metals Explorer Focused on Critical Mineral Vanadium

121 Mining & Energy Investment, Singapore

Conference Presentation
19th September 2023

ASX:VKA



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Competent Person's Statements

Information in this release that relates to Exploration Results and Exploration Target is based on information compiled by Mr Julian Woodcock, who is a Member and of the Australian Institute of Mining and Metallurgy (MAusIMM(CP) - 305446). Mr Woodcock is a full-time employee of Viking Mines Ltd. Mr Woodcock has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Woodcock consents to the inclusion in this Presentation of the matters based on this information in the form and context in which it appears.

The information in this report that relates to Mineral Resources is based on, and fairly reflects, information compiled by Mr Aaron Meakin, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Meakin is a consultant to Flinders Mines Ltd and Viking Mines Ltd, employed by CSA Global Pty Ltd, independent mining industry consultants. Mr Meakin has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources, and Ore Reserves (JORC Code). The Company is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information contained in this report, relating to metallurgical results, is based on, and fairly and accurately represent the information and supporting documentation prepared by Mr Damian Connelly. Mr Connelly is a full-time employee of METS Engineering who are a Contractor to Viking Mines Ltd, and a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Connelly has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Exploration Targets, Mineral Resources and Ore Reserves. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

Corporate Overview



ASX Code
VKA

Share Price
\$0.01
(14 September 2023)

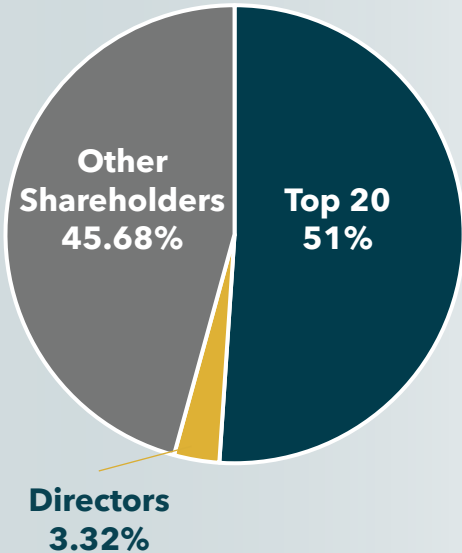
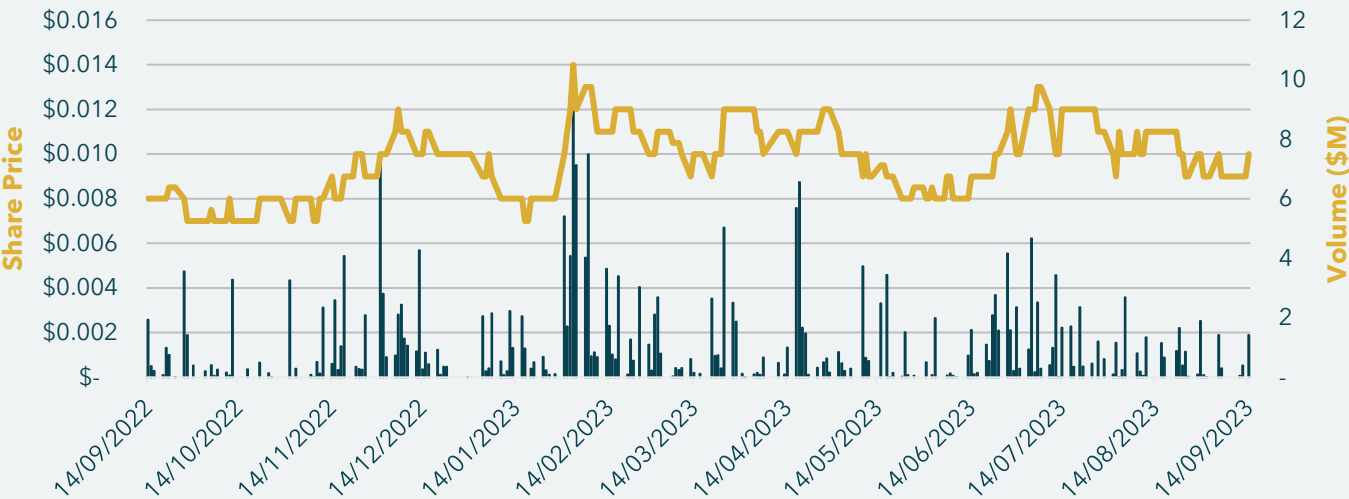
Shares on Issue
1.025B

Market Cap
\$10.25M
(Undiluted)

Cash & Receivables
\$4.13M
(as at 30 June)

Enterprise Value
\$6.12M

VKA Share Price & Volume



Board and Management



Charles Thomas
Chairman

Mr. Thomas is an Executive Director and Founding Partner of GTT a leading boutique corporate advisory firm based in Australia.

Mr. Thomas has worked in the financial service industry for more than 17 years and has extensive experience in capital markets as well as the structuring of corporate transactions.



Julian Woodcock
Managing Director & CEO

Mr. Woodcock is a geologist with a career spanning 2 decades in the exploration and production of various commodities across multiple counties.

Notable accomplishments involve significant gold discoveries and resource ounce growth including the +2Moz Invincible Deposit at St Ives which advanced from discovery drillhole to production in <3 years, the 0.3Moz Gilmour deposit at Yamarna defined in <12 months and +1Moz resource conversion at Gruyere.



Michael Cox
Non-Executive Director

Mr Cox has run a private corporate advisory services firm since 2008.

He commenced his career as a mining analyst for stockbroking firms followed by a role being responsible for the delineation and grade control of a developing bentonite deposit.

He then moved into various board positions and corporate development roles with a number of listed and unlisted public companies.

The Future for Vanadium



Vanadium Critical, Industrial and Battery Mineral



Established Critical Mineral with Massive Growth Potential



85% of global production coming from China, Russia and South Africa. Opportunity to diversify supply chains to stable jurisdictions.



Main component in **Vanadium Redox Flow Batteries (VRFB)**, which are a proven and commercially available technology to meet demand for long duration energy storage.

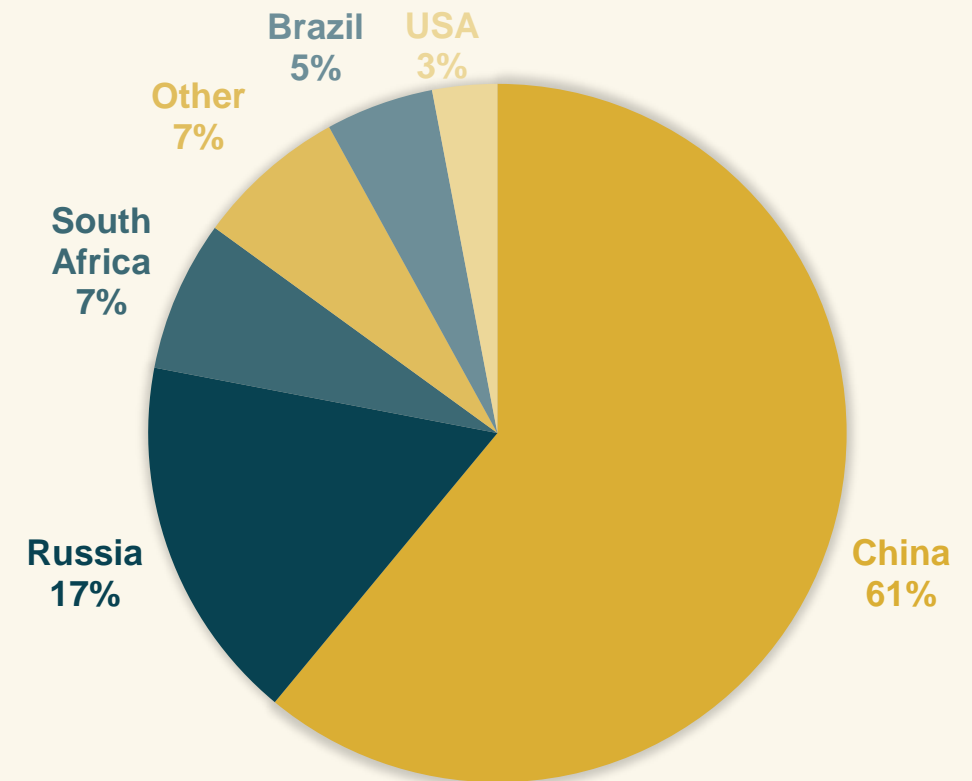


Established industrial mineral, primarily used in the steel industry as an additive to increase strength.



Future innovation applications for Vanadium, with potential in **solid state batteries** and use in lithium-ion cathodes and anodes.

2021 Production by Country



<https://www.bushveldminerals.com/about-vanadium/>

Vanadium Outperforms Li-Ion over operating life



Vanadium Redox Flow Battery (VRFB)



Low \$/kWh over battery life



No degradation



Fully recyclable



Non-flammable

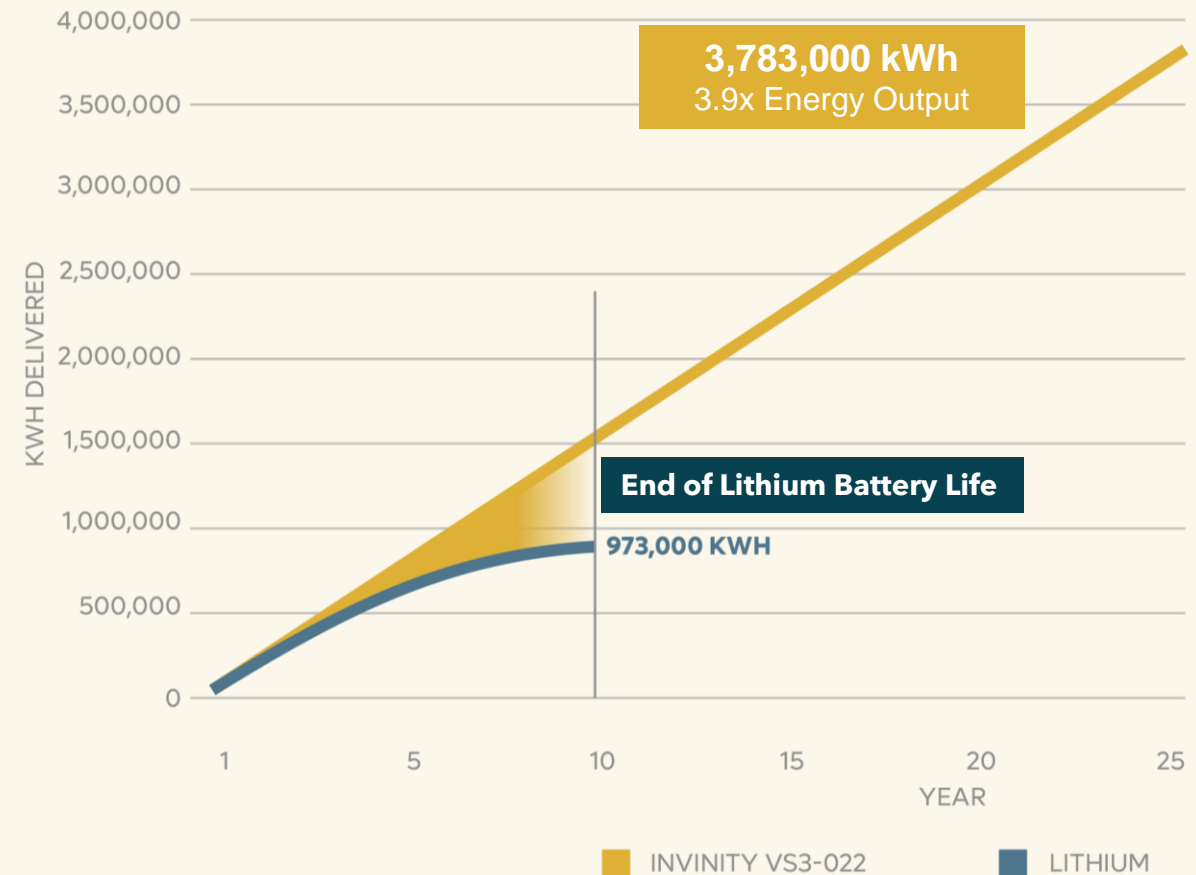


Simple Capacity Expansion



Off Grid Deployment

CUMULATIVE ENERGY DELIVERED OVER TIME



Assumptions: 220 kWh DC capacity installed, 2 cycles per day, 100% DoD per cycle, 365 days a year.

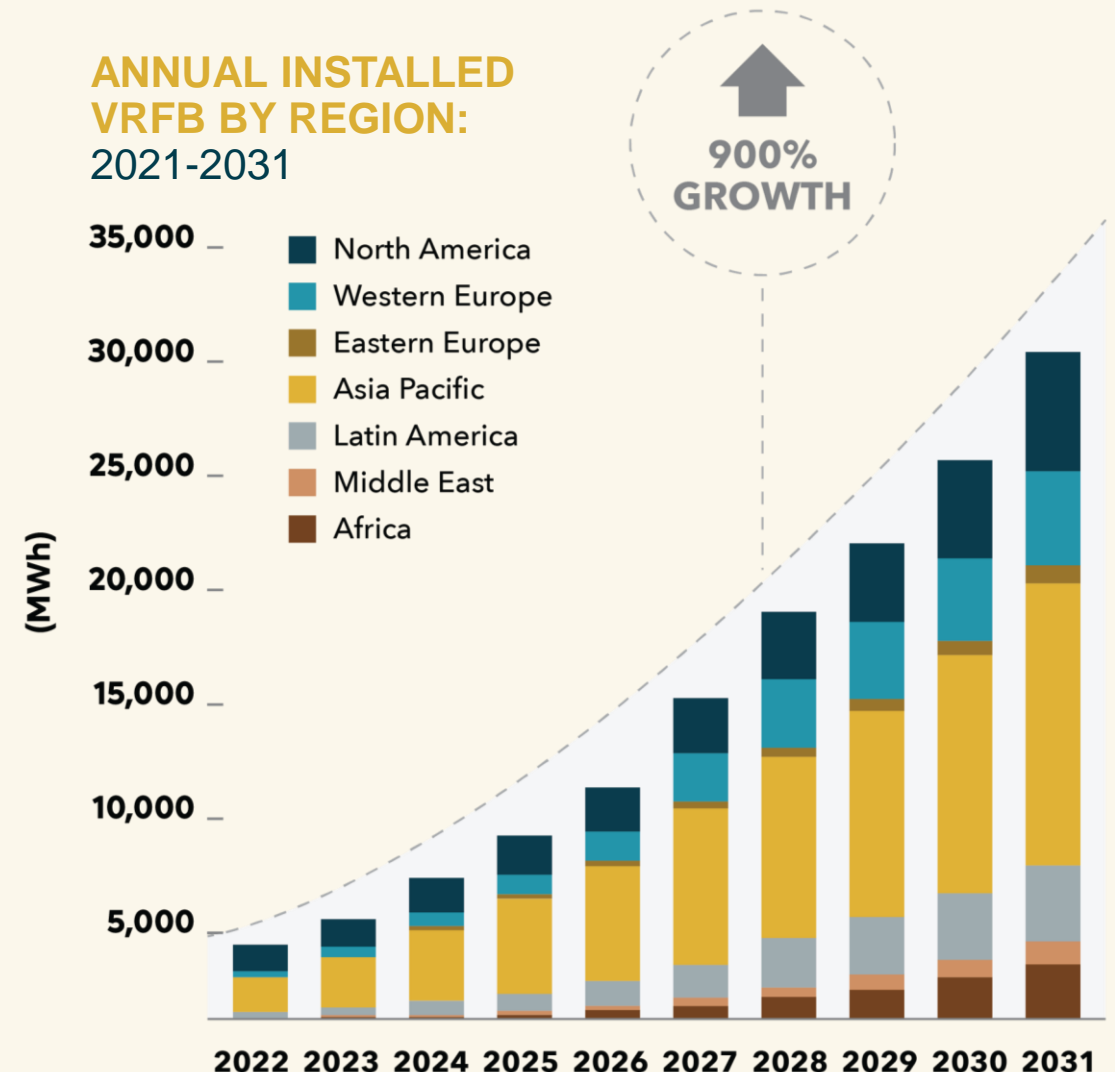
Vanadium Alternate Energy Storage Solution



Vanadium Redox Flow Battery (VRFB)

- **Commercial production occurring globally** - >33 companies producing VRFB's including Sumitomo & LG.
- **Over 200 VRFB projects worldwide** - installed and operating.
- **Largest is 100MW/400MWh capacity** - enough to power 100,000 homes for 4 hours.
- VRFB Sector forecast to **grow >900%** by 2031.
- Vanadium demand from batteries totalled 1% in 2019, 7% in 2022 and forecasted to consume 50% by 2030.ⁱ
- **New mines required** - Current supply consumed by steel industry requires new production to meet battery supply needs.

ANNUAL INSTALLED VRFB BY REGION: 2021-2031



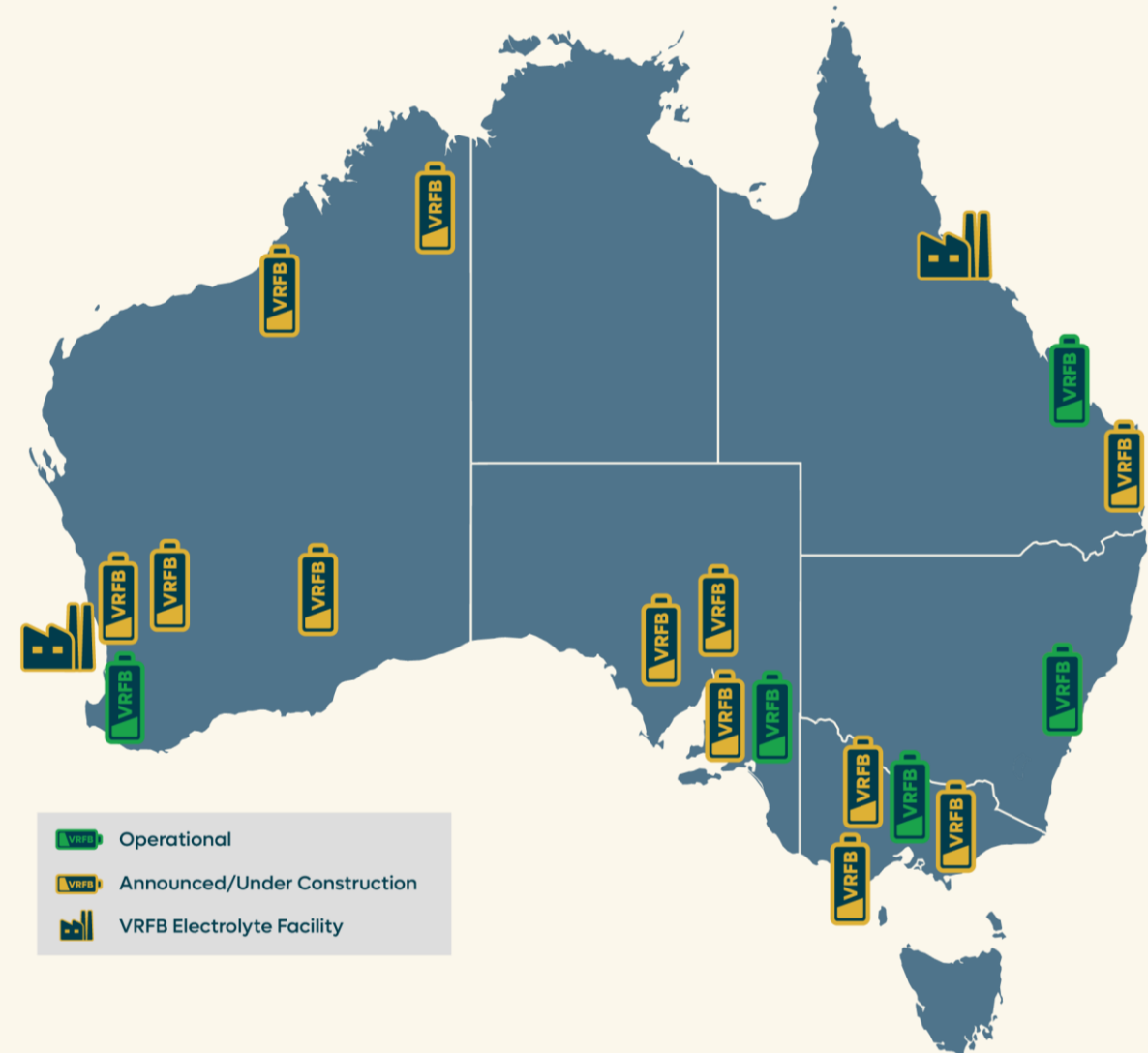
Source: Guidehouse Insights

Vanadium VRFB Global Uptake Increasing



Over 200 Operating VRFB Projects Worldwide ⁱ

- Sumitomo Electric has grid scale projects from 125kW to 17MW in Japan, US, Europe, Africa & Asia, and recently announced a new order for a 1MW/8MWh system.
- German manufacture, Prolux Solutions, unveils STORAC residential VRFB unit (5kW & 10kW).
- Horizon Power - first Australian energy provider to purchase a VRFB, to power a pilot energy storage project in the remote town of Kununurra, WA.
- Mining company IGO to implement a VRFB trial at its Nickel Operation in WA's remote Fraser Range.
- AVL has commenced construction of a Vanadium Electrolyte facility in Perth, WA. The facility will produce 33MWh per year of vanadium flow battery (VFB) high purity electrolyte.
- \$26 million Townsville Vanadium Battery Manufacturing Facility, which will produce 175MWh of battery storage annually.



Canegrass Battery Minerals Project



Right Rocks, Right Jurisdiction, Right Location



Investment Attractiveness

- WA, Ranked #1 in 2021 Fraser Institute Annual Survey of Mining Companies.
- Situated in the 'Vanadium Triangle' of substantial Vanadium Projects in WA
- Windimurra Igneous Complex - Directly comparable to the famous Bushveld Complex in South Africa.

Location & Access

- 620km NE of Perth (WA).
- 60km from the township of Mount Magnet, with sealed airstrip & regular commercial flights.
- Bitumen road to within 22km of the Resource.

Critical Infrastructure

- Midwest gas pipeline passes 22km north of the Project.

Port & Rail

- 338km to Tenindewa rail head, on route to Geraldton.
- 419km to established Port at Geraldton already used to export iron ore & mineral sands.



Canegrass Battery Minerals Project



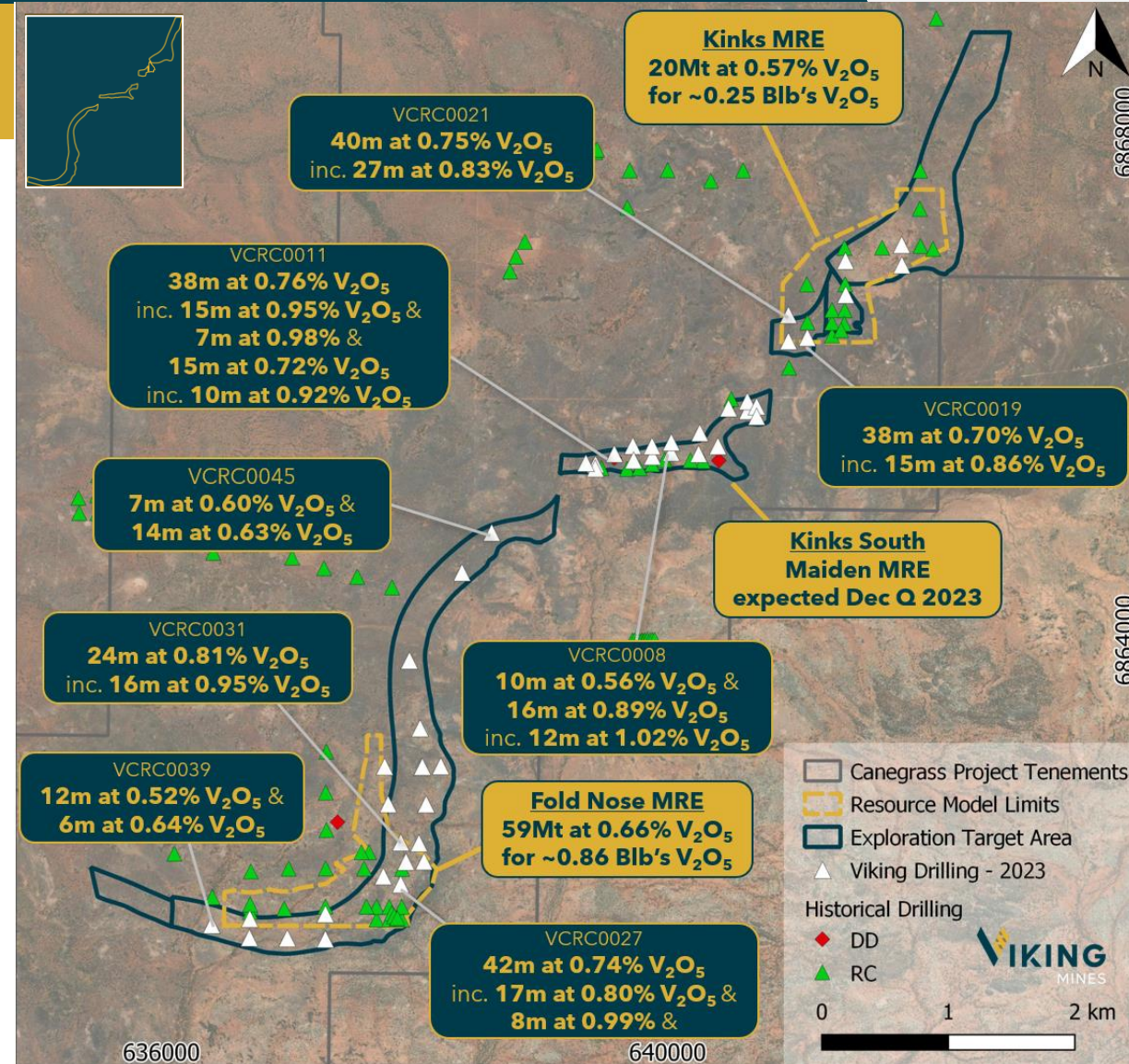
79Mt @ 0.64% V_2O_5 , 29.7% Fe, 6.0% TiO_2 ⁱ

- Large Inferred (JORC 2012) Mineral Resource Estimate (MRE) with only 24% of the prospective horizon incorporated in the resource.ⁱⁱ
- Multicommodity project with V, Fe, Ti, Cu, Ni & Co potential value streams.
- Significant upside potential over 95km² tenure identified via substantial Exploration Target Estimate.ⁱⁱⁱ

**144Mt to 192Mt at 0.45% to 0.99% V_2O_5
for 1.44 to 4.19 Billion Pounds V_2O_5 .**

The potential quantity and grade of mineralisation of the ETE at the Canegrass Project is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will confirm the target ranges.

- Extensive exploration programme has confirmed prospectivity and growth potential of the project.
- Fast-track proposition with Advanced Murchison peers 'lighting the path' for exploration and development methodology.



VKA Targeting Extension, Growth & Discovery



~7,500m Drill Programme Completed



OBJECTIVE:

- Define high-grade component of **>30Mt >0.9%V₂O₅** by systematically completing an extensive exploration programme.

STRATEGY:

- ✓ Field mapping and rock-chip sampling identified a substantial outcropping VTM mineralisation.
- ✓ Ground Magnetics Survey confirmed mapping observations and defines high priority drill targets.
- ✓ Exploration Target Estimate confirms significant upside growth potential, with 6 key exploration targets delineated.
- ✓ 7,500m drilling programme completed - Confirming extensions and multiple growth areas to the resource and new discovery zones.
- Complete an updated MRE for the project by the end of 2023, incorporating all new data.
- Scoping Study decision in early 2024 to confirm the viability of the project.

Fold Nose New Discovery Targets

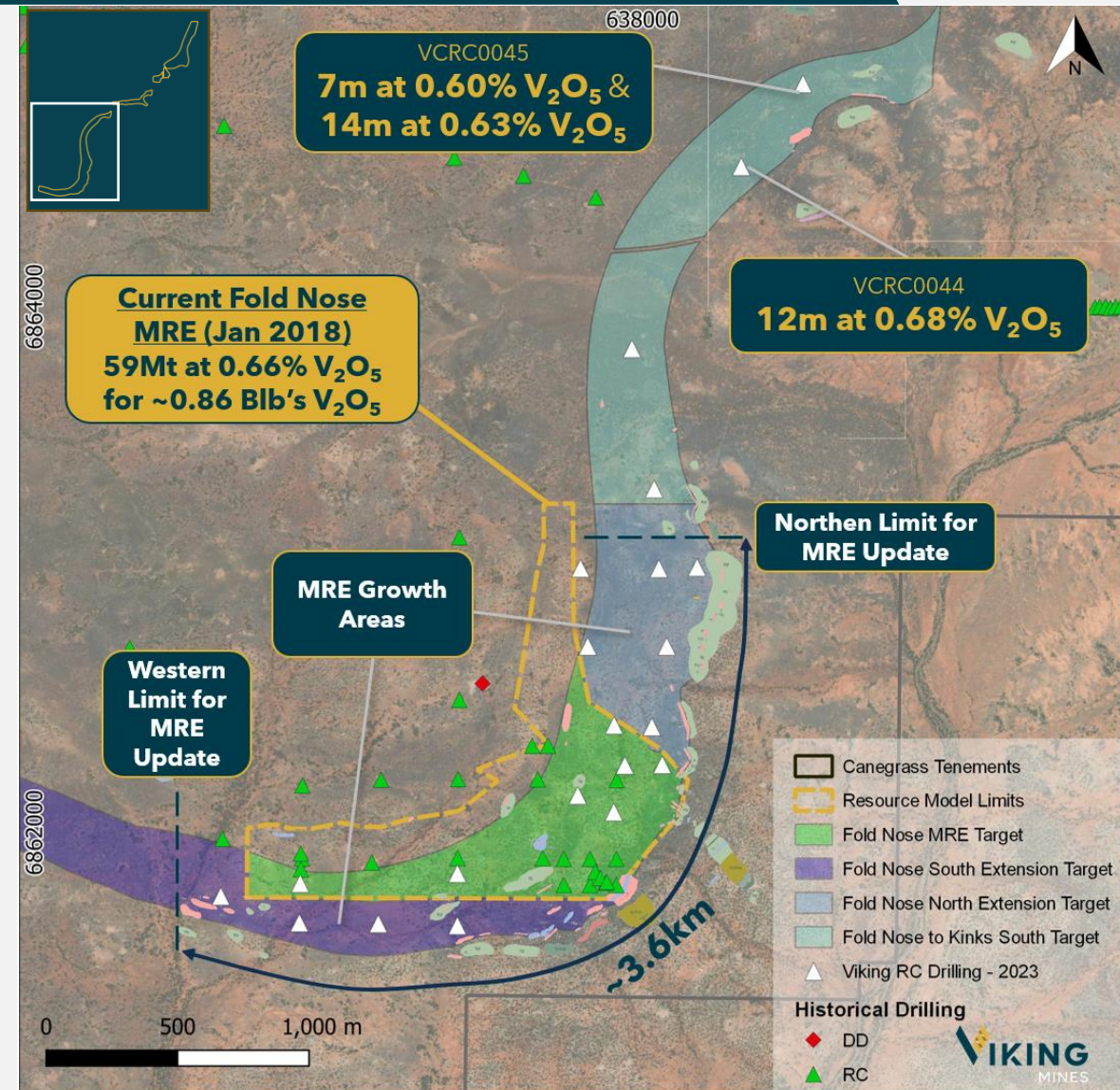


59Mt at 0.66% V_2O_5 for ~0.86 Billion lbs V_2O_5 ⁱ

- Existing substantial MRE with massive upside potential.
- Significant Exploration Target Estimate calculated for Fold Nose Deposit extensions totalling.ⁱⁱ

**64 Mt to 85 Mt at 0.43% to 1.07% V_2O_5
for 0.61 to 2.02 B lbs**

- Mapping confirms outcropping mineralisation North and South of the current MRE.
- Results in a 660% increase to current modelled outcropping strike length (to 3.6km from 0.5km).
- MRE model not extended to surface in these target areas generates opportunity for shallow open pit target tonnage additions.

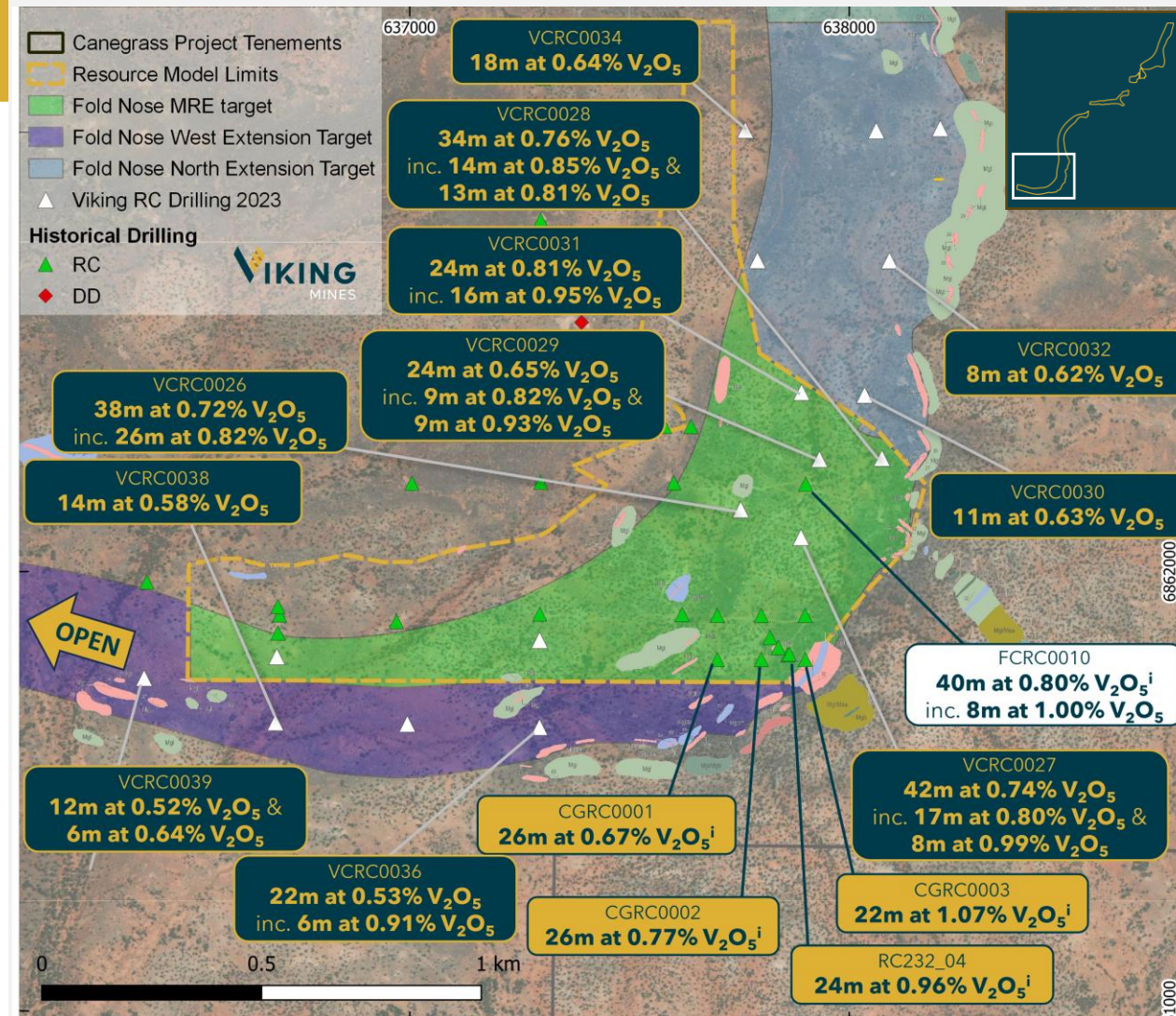


Fold Nose Growth Drilling



Drilling Confirms MRE Growth Opportunity

- **Substantial thick zones** of VTM intersected in multiple holes.
- Drilling confirms extensions **outside** the current MRE limits.
- Mineralisation occurs throughout the **>3km strike** length tested.
- **High-grade hinge zone** >750m strike length and thick accumulations up to 42m.
- Shallow dipping (~25°) high-grade mineralisation **outcropping at surface**.
- **Remains open** and untested to the west.



Kinks North And West Extension Targets

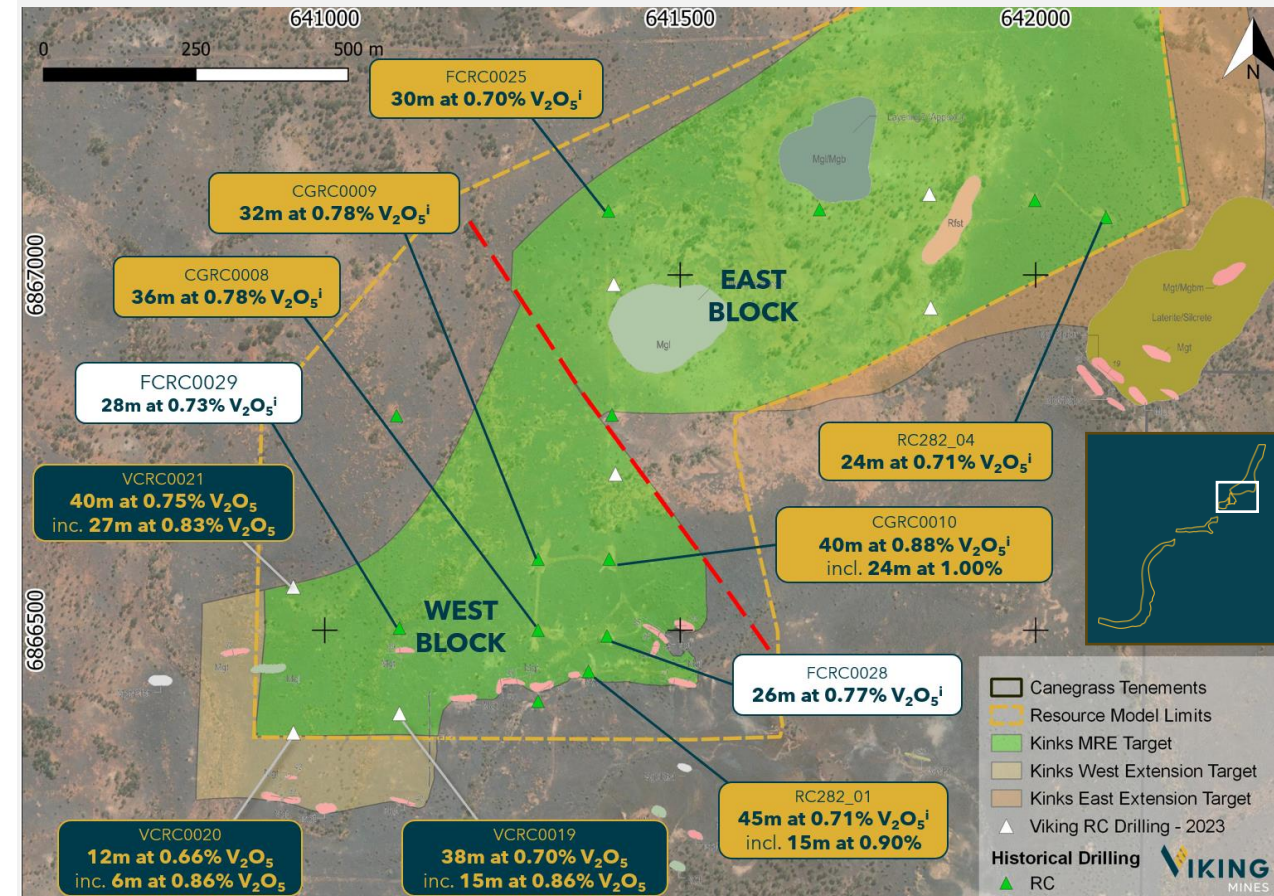


20Mt at 0.57% V_2O_5 for ~0.25 Billion lbs V_2O_5 ⁱ

- Exploration Target Estimate for Kinks Extensions totals. ⁱⁱ

**30 Mt to 40 Mt at 0.51% to 0.72% V_2O_5
for 0.34 to 0.64 B lbs.**

- Drilling defined high-grade outcropping vanadium zone with >600m strike length.
- Drilling at the West Block focussed on following up high-grade historical holes that are not included in the current MRE for Kinks.
- Results returned significant thick zones of mineralisation intersected in all holes drilled into the West Block.
- All drilling results in the West Block are materially higher than the current resource grade of 0.57% V_2O_5 .**
- Opportunity to improve the quality of the resource and potential define a **high-grade component in the MRE update**, scheduled for the end of 2023.

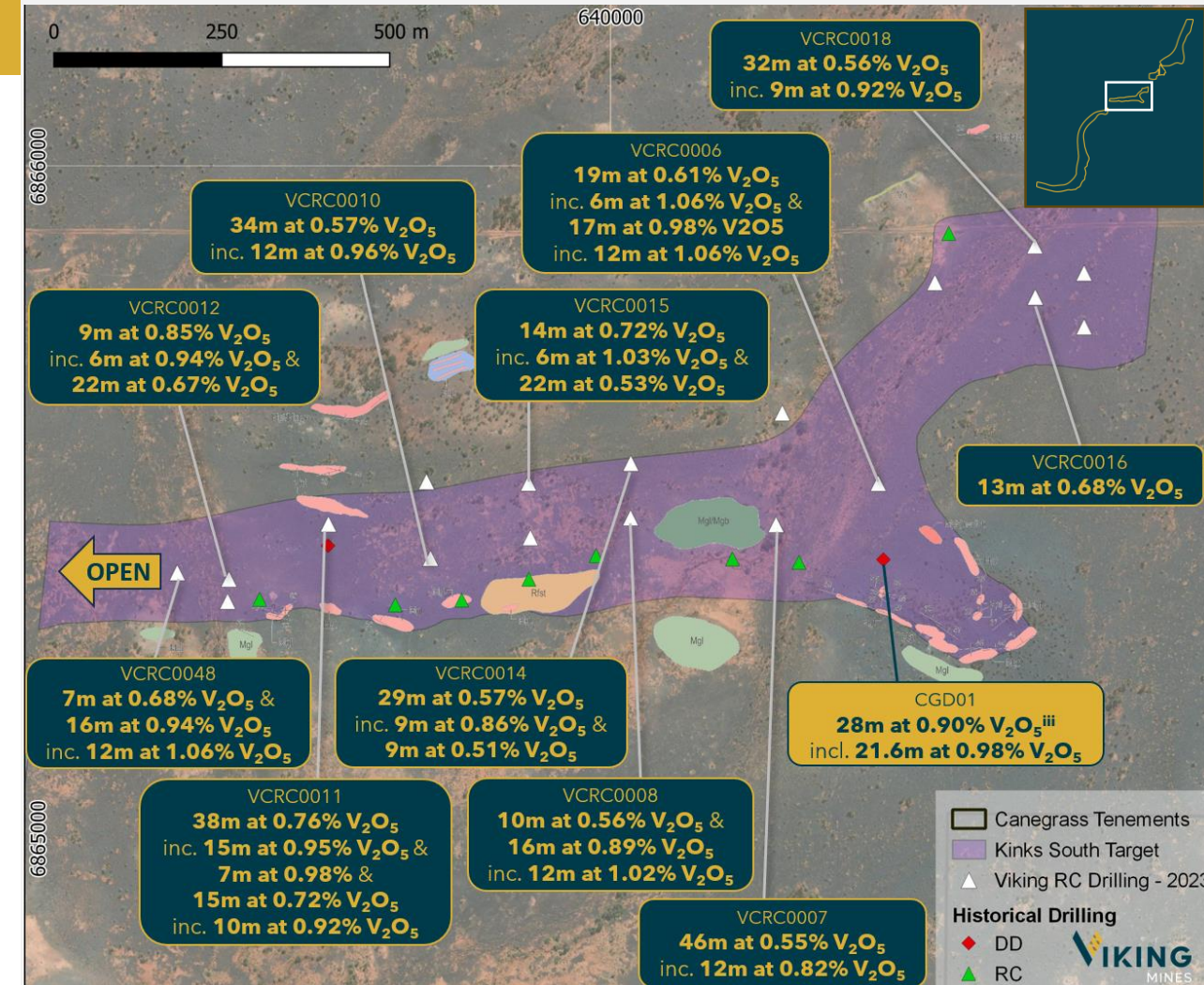


Kinks South Growth Target



Substantial Exploration Target Area - No MRE yet

- Exploration Target Estimate defines major target. ⁱ
23.1Mt to 30.8Mt at 0.46% to 1.04% V₂O₅ for 0.24 to 0.71 B lbs
- Assays confirm substantial zones of high-grade Vanadium Mineralisation **outside** of current project MRE.
- Mineralisation occurs throughout the **>1.5km strike** length tested ⁱⁱ
- **Thick high-grade results** throughout the target area
- **>90% recovery** of Vanadium into magnetic concentrate grading 1.44% V₂O₅
- **Maiden MRE** in the Dec Quarter planned for Kinks South which will make a substantial contribution to the Project Resource

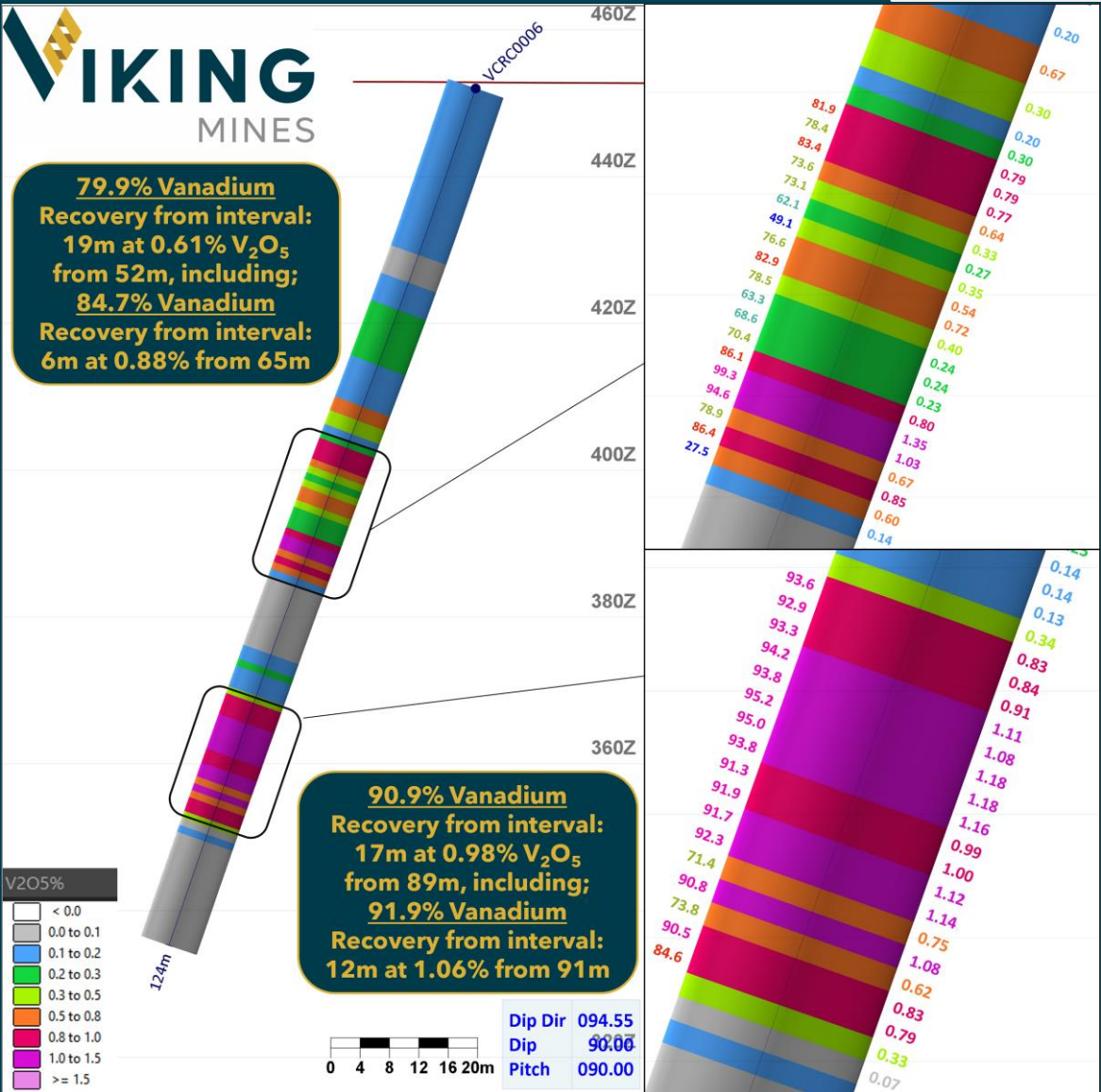


Exceptional Vanadium Recoveries

Up to 1.44% V₂O₅ with 99.3% Vanadium Recoveries ⁱⁱ

- Very high Vanadium recoveries up to 99.3% achieved in sighter testwork on samples from Kinks South.
- Main mineralised zone in hole VCRC0006 of **17m at 0.98% V₂O₅**ⁱ achieved **90.9% recovery to concentrate grading 1.44% V₂O₅**.
- The testwork has demonstrated that a high-quality magnetic concentrate can be produced from the VTM mineralisation at the Canegrass Project.
- Copper Nickel and Cobalt reporting to the non-magnetic tail confirming the opportunity to produce a sulphide concentrate in the process flow sheet.
- Up to **62.7% Iron** in concentrate indicates potential to produce a magnetite concentrate from the Project for direct shipping opportunity.

Magnetic Concentrate Average Values							
Interval	Results	V ₂ O ₅ %	Fe%	TiO ₂ %	SiO ₂ %	Al ₂ O ₃ %	P%
17m	Grade	1.44%	60.3%	10.6%	1.1%	1.7%	<0.001%
	Recovery	90.9%	87.4%	79.1%	4.7%	19.4%	n/a
19m	Grade	1.39%	57.1%	11.2%	2.6%	2.7%	<0.001%
	Recovery	79.9%	71.4%	69.1%	3.3%	6.0%	n/a

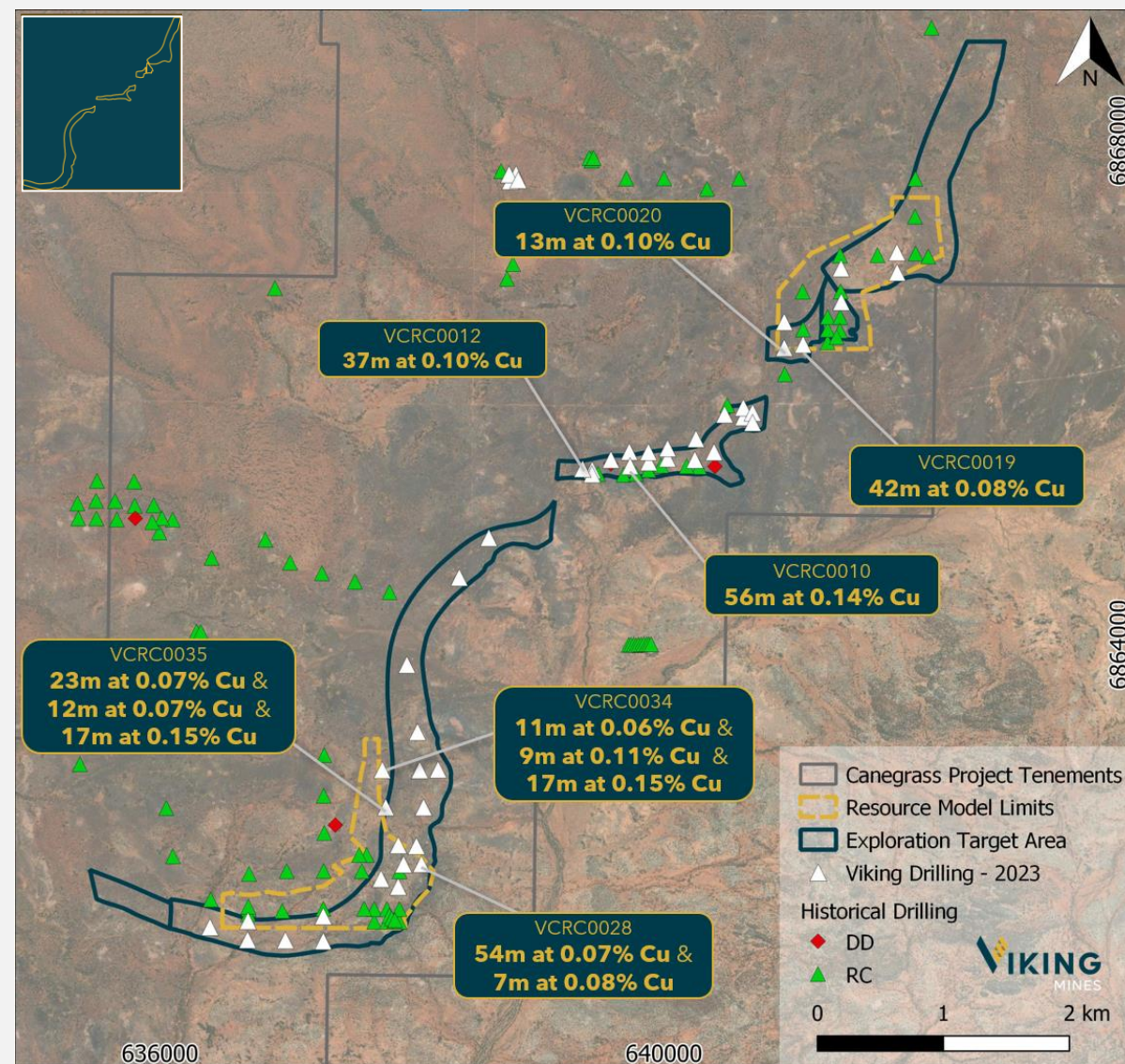


Additional Battery Mineral Potential Ni, Cu, Co



Drilling Confirms Copper, Nickel & Cobalt Potential

- Elevated values of Cu, Ni & Co have been intersected across the project, supporting potential for additional credits.
- Further investigation ongoing to understand the significance of these results and its association with the VTM mineralisation.
- Importantly Cu, Ni and Co reporting to the non-magnetic tail confirming the opportunity to produce a sulphide concentrate in the process flow sheet.
- Undertake further metallurgical testwork to determine recovery potential for these battery metals via sulphide floatation.
- Estimate metals into the next MRE update.



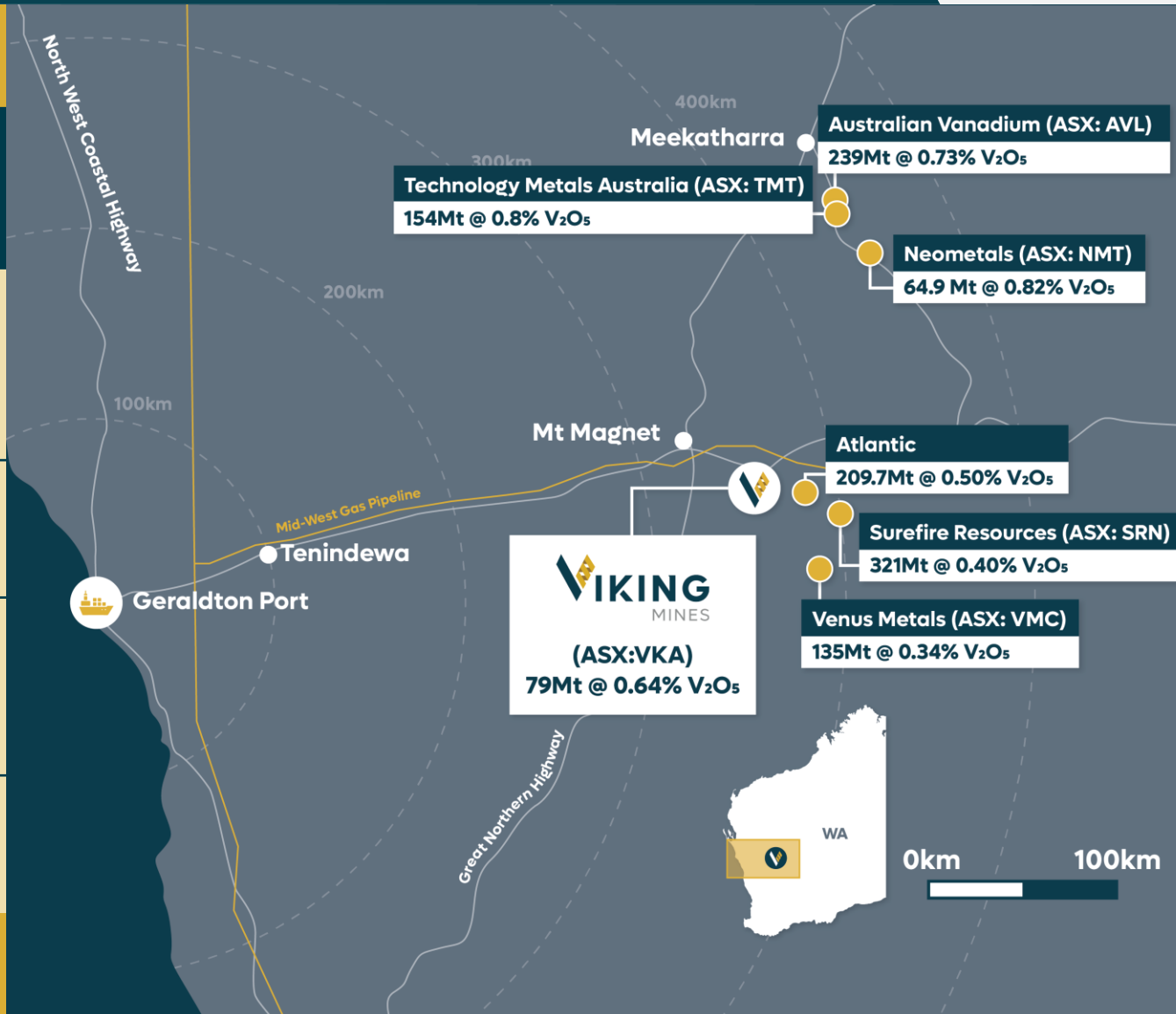
Murchison Region Vanadium Focussed Projects



Regional Vanadium/Titanium Projects

COMPANY	VIKING MINES (ASX:VKA)	TECHNOLOGY METALS (ASX:TMT)	AUSTRALIAN VANADIUM (ASX:AVL)	VENUS METALS (ASX:VMC)	SUREFIRE RESOURCES (ASX:SRN)
PROJECT	Canegrass Battery Minerals Project	Murchison Technology Metals Project	Australian Vanadium Project	Youanmi	Victory Bore & Unaly Hill
MRE	Inferred: 79Mt @ 0.64% V ₂ O ₅	M+Ind+Inf: 154Mt @ 0.8% V ₂ O ₅	M+Ind+Inf: 239Mt @ 0.73% V ₂ O ₅	M+Ind+Inf: 135Mt @ 0.34% V ₂ O ₅	M+Ind+Inf: 321Mt @ 0.40% V ₂ O ₅
ORE RESERVES: PROVED & PROBABLE	n/a	44.48Mt @ 0.89% V ₂ O ₅	30.9Mt @ 1.09% V ₂ O ₅	n/a	n/a
PROJECT STATUS	Exploration	DFS complete	BFS complete	Exploration	Scoping Study

Canegrass Project MRE Update in December Quarter



Critical Mineral Project Rapidly Advancing



Geological interpretation & targeting to define targets and develop exploration programme.



~7,500m drill program completed to expand Mineral Resource and test exploration targets.



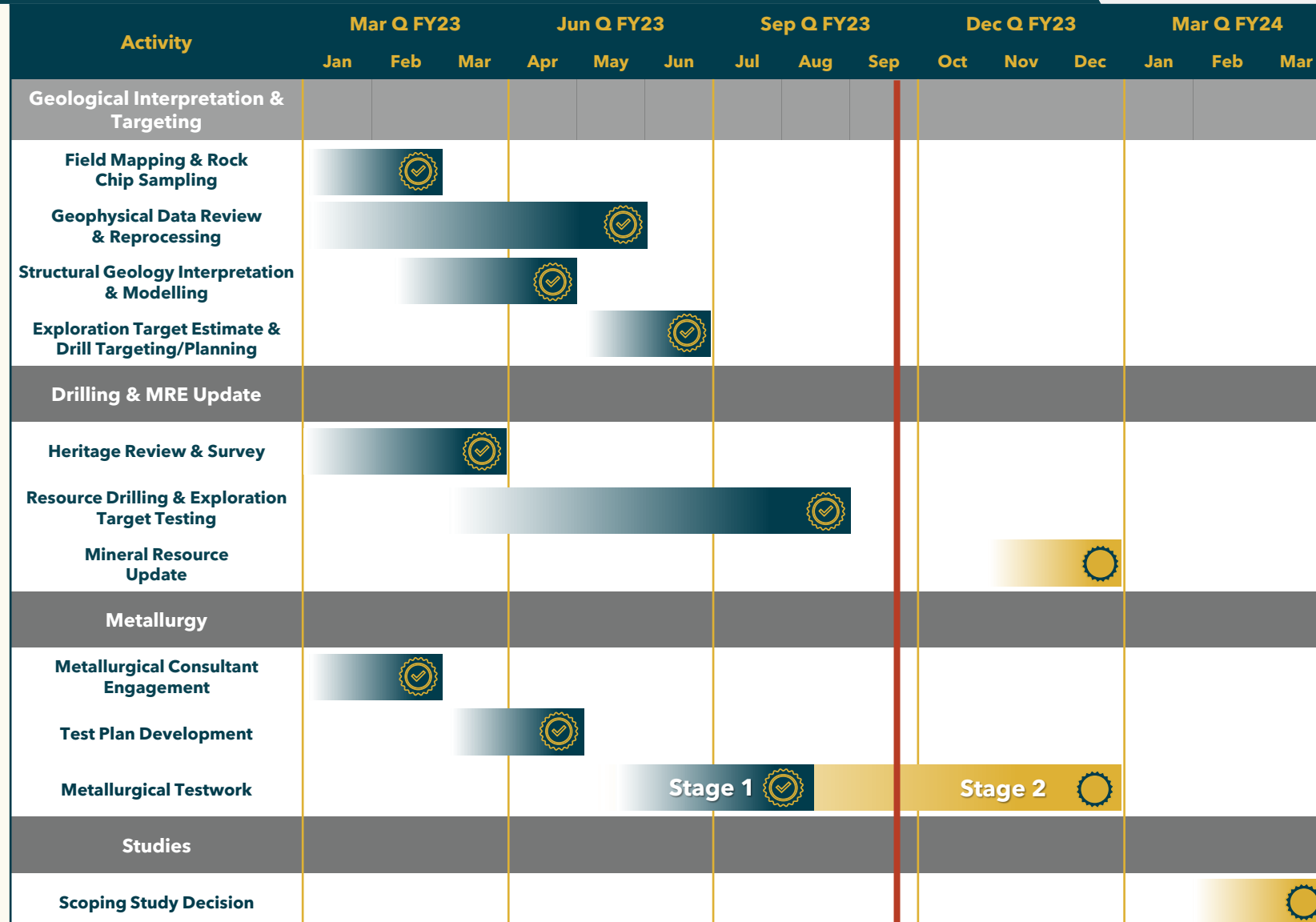
Resource modelling to update Mineral Resource Estimate and expand to include Ni, Cu & Co.



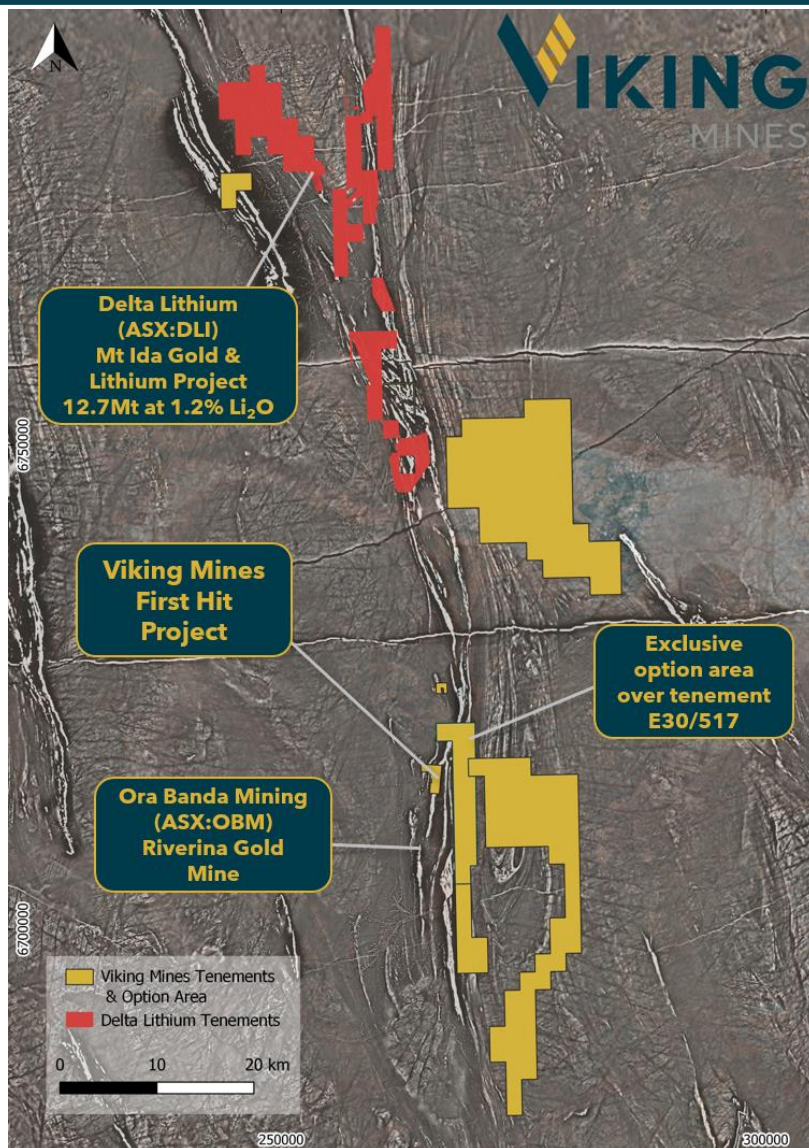
Metallurgical testing to expand on preliminary testwork & evaluate Ni, Cu, Co potential.



Scoping Study to determine value opportunity and decision to move to next step of resource drilling.

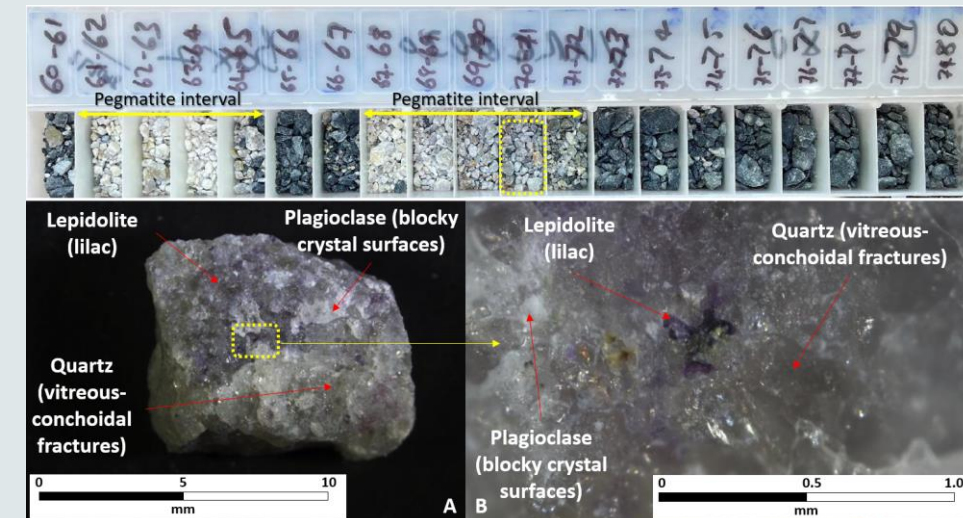


First Hit Project Gold & Lithium Opportunity



- Substantial >430km² tenement holding in prolific gold and lithium district.
- 25km long continuous land position covering 60km² along highly prospective and well-endowed Zuleika Shear Zone.ⁱ
- Delta Lithium advancing to production at Mt Ida Lithium Project.
- Multiple pegmatites intersected at First Hit.

- Hole VKRC0030 intersected lithium bearing minerals in pegmatite intersected from 61-72m.ⁱⁱ
- Follow up exploration required.



Why Invest in Viking Mines



Exposure To Critical Mineral Vanadium with Fe, Ti, Cu, Ni, & Co Upside



Large Mineral Resource Estimate with Huge Growth Potential



Rapidly Advancing Project with Fully Funded Extensive Work Programme



Undervalued Compared to Peers, VKA has Significant Upside Potential



**For more information
please contact:**

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Managing Director & CEO

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Zander Beacham

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Appendix 1 – Vanadium Company Snapshot



COMPANY	VIKING MINES (ASX:VKA)	TECHNOLOGY METALS (ASX:TMT)	AUSTRALIAN VANADIUM (ASX:AVL)	VENUS METALS (ASX:VMC)	SUREFIRE RESOURCES (ASX:SRN)	NEOMETALS (ASX:NMT)	ATLANTIC PTY LTD (PRIVATE)
PROJECT	Canegrass	Murchison Technology Metals Project	Australian Vanadium Project	Youanmi	Victory Bore and Unaly Hill	Barrambie	Windimurra
MINERAL RESOURCES	79Mt @ 0.64% V₂O₅	154Mt @ 0.8% V ₂ O ₅	239Mt @ 0.73% V ₂ O ₅	135Mt @ 0.34% V ₂ O ₅	321Mt @ 0.40% V ₂ O ₅	64.9Mt at 0.82% V ₂ O ₅	209.7Mt at 0.50% V ₂ O ₅
ORE RESERVES	Inferred: 79Mt @ 0.64% V₂O₅ TOTAL: 79Mt @ 0.64% V₂O₅ (Source: 30 November 2022)	Measured: 12.1Mt @ 1.0% V ₂ O ₅ Indicated: 51.2Mt @ 0.9% V ₂ O ₅ Inferred: 90.5Mt @ 0.8% V ₂ O ₅ TOTAL: 153.7Mt @ 0.8% V ₂ O ₅ (Source: TMT 7 November 2022)	Measured: 11.3Mt at 1.14% V ₂ O ₅ Indicated: 82.4Mt at 0.70% V ₂ O ₅ Inferred: 145.3Mt at 0.71% V ₂ O ₅ TOTAL: 239Mt @ 0.73% V ₂ O ₅ (Source: https://www.australianvanadium.com.au/our-assets/the-australian-vanadium-project/)	Measured: 31.55Mt @ 0.33% V ₂ O ₅ Indicated: 54.37Mt @ 0.33% V ₂ O ₅ Inferred: 48.82Mt @ 0.36% V ₂ O ₅ TOTAL: 134.73Mt @ 0.34% V ₂ O ₅ (Source: VMC 20 March 2019)	Measured: 16.8Mt @ 0.42% V ₂ O ₅ Indicated: 70.3Mt @ 0.40% V ₂ O ₅ Inferred: 234.0Mt @ 0.40% V ₂ O ₅ TOTAL: 321Mt @ 0.40% V ₂ O ₅ (Source: SRN 1 February 2023)	Indicated: 49.0Mt @ 0.82% V ₂ O ₅ Inferred: 15.9Mt @ 0.81% V ₂ O ₅ TOTAL: 64.9Mt @ 0.82% V ₂ O ₅ (Source: NMT Annual Report 23 September 2022)	Measured: 34.6Mt at 0.49% V ₂ O ₅ Indicated: 123.5Mt @ 0.50% V ₂ O ₅ Inferred: 51.6Mt @ 0.50% V ₂ O ₅ TOTAL: 209.7Mt @ 0.50% V ₂ O ₅ (Source: https://atlanticptyltd.com.au/projects/windimurra/geology-reserves-resources)
PROJECT STATUS	Exploration	Proved: 1.12Mt @ 0.95% V ₂ O ₅ Probable: 43.36Mt @ 0.89% V ₂ O ₅ TOTAL: 44.48Mt @ 0.89% (Source: https://www.tmtlimited.com.au/murchison-technology-metals-project/mineral-resources-ore-reserves/)	Proved: 10.5Mt @ 1.11% V ₂ O ₅ Probable: 20.4Mt @ 1.07% V ₂ O ₅ TOTAL: 30.9Mt @ 1.09% V ₂ O ₅ (Source: https://www.australianvanadium.com.au/our-assets/the-australian-vanadium-project/)	n/a	n/a	n/a	Probable: 87.5Mt @ 0.49% V ₂ O ₅ TOTAL: 87.5Mt @ 0.49% V ₂ O ₅ (Source: https://atlanticptyltd.com.au/projects/windimurra/geology-reserves-resources)