



# **Gold & Critical Mineral Vanadium**

## **A Diversified Developer and Explorer**



**Investor Presentation**

October 2024

ASX: **VKA**



**FIRST HIT GOLD MINE BOX  
CUT AND DECLINE ACCESS**

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## Competent Person's Statements

Information in this release that relates to Exploration Results 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'. 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 announcements.

The information in this announcement that relates to the Mineral Resource estimate and Pit Optimisation is derived from information compiled by Mr. Dean O'Keefe, a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM, #112948), and Competent Person for this style of mineralisation. Mr. O'Keefe is a consultant to Viking Mines Limited, and is employed by MEC Mining, an independent mining and exploration consultancy. Mr. O'Keefe 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 a 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 confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original announcements.

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 announcements.

# Company Overview

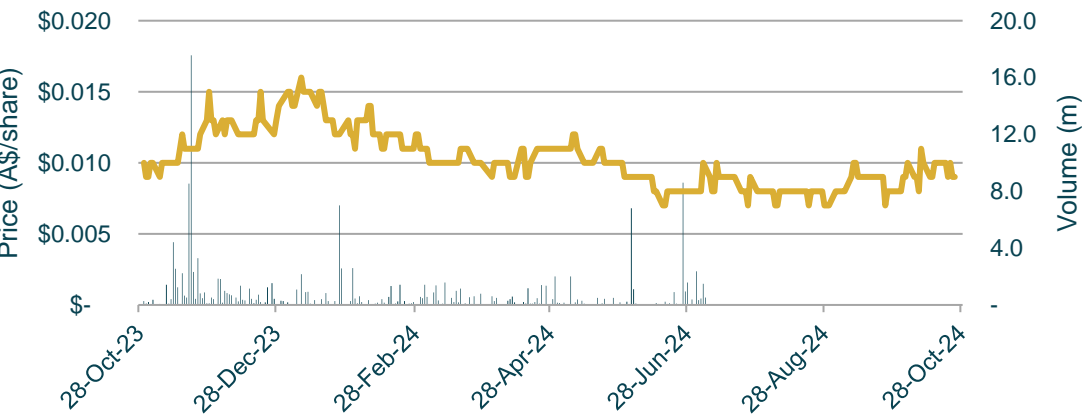


## Corporate Snapshot

ASX Code <b>VKA</b>	Share Price <b>\$0.009</b> (28 October 2024)	Shares on Issue <b>1.062B</b>
Market Cap <b>\$9.56M</b> (Undiluted)	Cash <b>\$2.85M</b> (as at 30 Sept 24)	Enterprise Value <b>\$6.7M</b>

Top 20 (excl Dir) 50.75%	Other Shareholders 37%	Directors 12.25%
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## Share Price Chart



## Board and Management



**Charles Thomas**  
Chairman



**Julian Woodcock**  
Managing Director  
& CEO



**Michael Cox**  
Non-Executive  
Director



**Bevan Tarratt**  
Non-Executive  
Director

### Canegrass Battery Minerals Project

- Outcropping hard-rock vanadium magnetite project, located in the Murchison Region, WA.
- 60km from the township of Mount Magnet, with sealed airstrip & regular commercial flights.
- Bitumen road and gas pipeline 22km from the Resource.
- 419km to established Port at Geraldton.

### First Hit Gold Gold Project

- Located 40km west of Menzies in WA Eastern Goldfields.
- ~480km<sup>2</sup> of highly prospective tenure (granted & under application).
- Centred around the historic high-grade First Hit Gold Mine (**produced ~30koz at 7.7g/t Au**).<sup>i</sup>
- 8km North & along strike of Ora Banda Mining Riverina Operation and 40km from Davyhurst Mill



i. Barra Resources Limited (2002), First Hit Mining Report December 2002 (Final Report) M30/99; Report No. BRLP 00107. Submitted to DMIRS



# Vanadium Critical, Industrial and Battery Mineral



## Established Critical Mineral with Massive Growth Potential

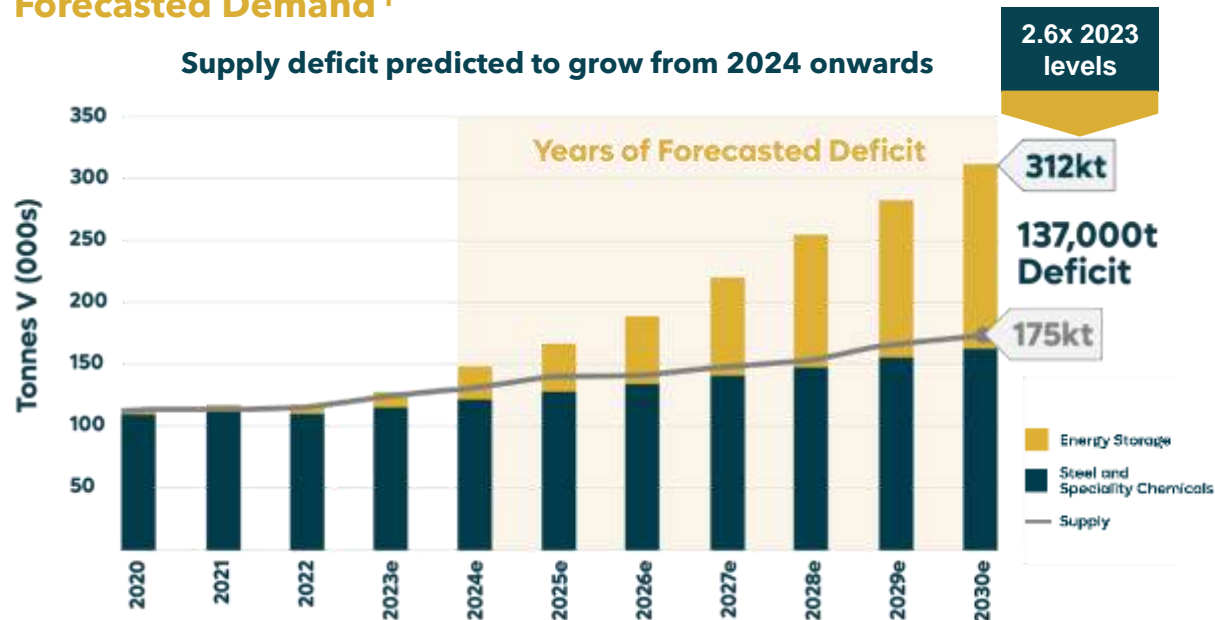
### Market Supply <sup>i</sup>

Total global supply ~120Kt vanadium pa



### Forecasted Demand <sup>i</sup>

Supply deficit predicted to grow from 2024 onwards



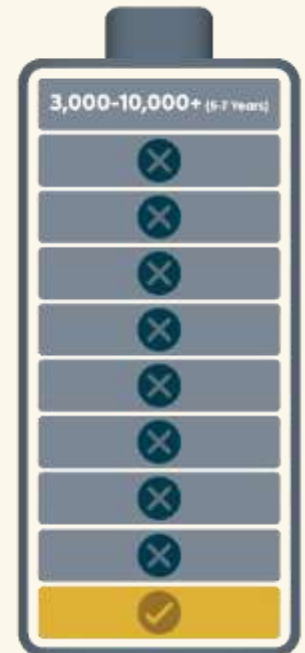
### Significant advantages over Li-Ion batteries

- Number of Cycles
- Low Self Discharge (Stays Charged)
- Low Environmental Footprint
- Easily Expandable
- High Thermal Stability
- Charges and Discharges Simultaneously
- Can Release Energy Instantaneously
- Suitable for Connection to Power Grid
- Can be Completely Recycled
- Small Footprint

#### Vanadium



#### Lithium



Source: Energy & Capital

No Degradation

Low \$/kWh over battery life

Non-flammable

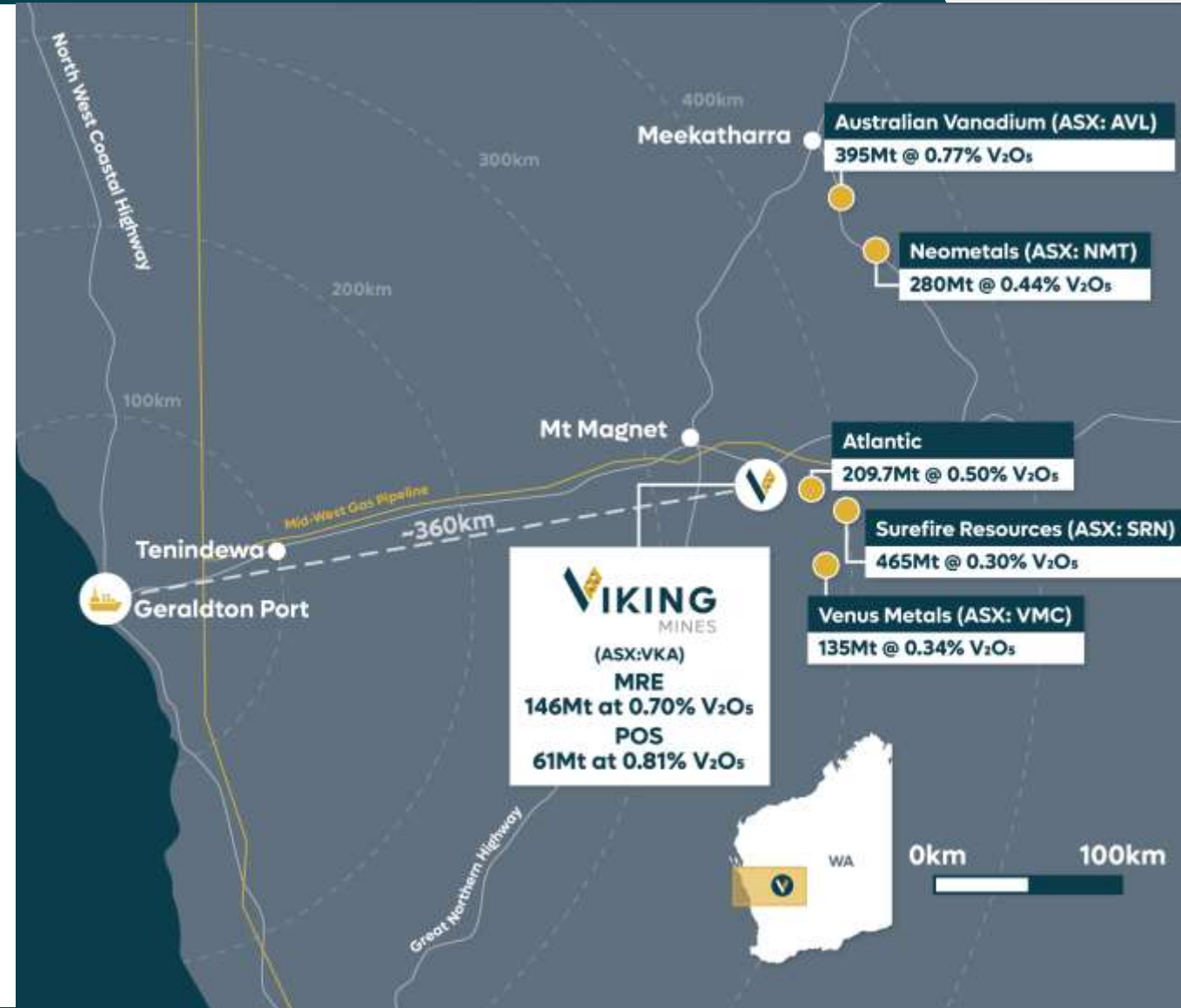
Fully Recyclable

Simple Capacity Expansion

# Canegrass Battery Minerals Project



- Significant **Vanadium Resource, 100% owned** following recent Share Sale Agreement with Red Hawk Mining (ASK:RHK)<sup>ii</sup>
- Located in Murchison Region with **extensive infrastructure within 20km** (including Windimurra Mine on care and maintenance)
- Global Inferred Mineral Resource Estimate (MRE) of **146Mt at 0.70% V<sub>2</sub>O<sub>5</sub>, 31.8% Fe & 6.6% TiO<sub>2</sub> (>0.5% V<sub>2</sub>O<sub>5</sub> cut-off)**<sup>iii</sup>
- **Pit Constrained MRE 61Mt @ 0.81% V<sub>2</sub>O<sub>5</sub> & 35.9% Fe (>0.7% V<sub>2</sub>O<sub>5</sub> cut-off)**<sup>iv</sup>
- Substantial value of the Project not reflected in VKA Market Cap (**EV of \$7.77M**)

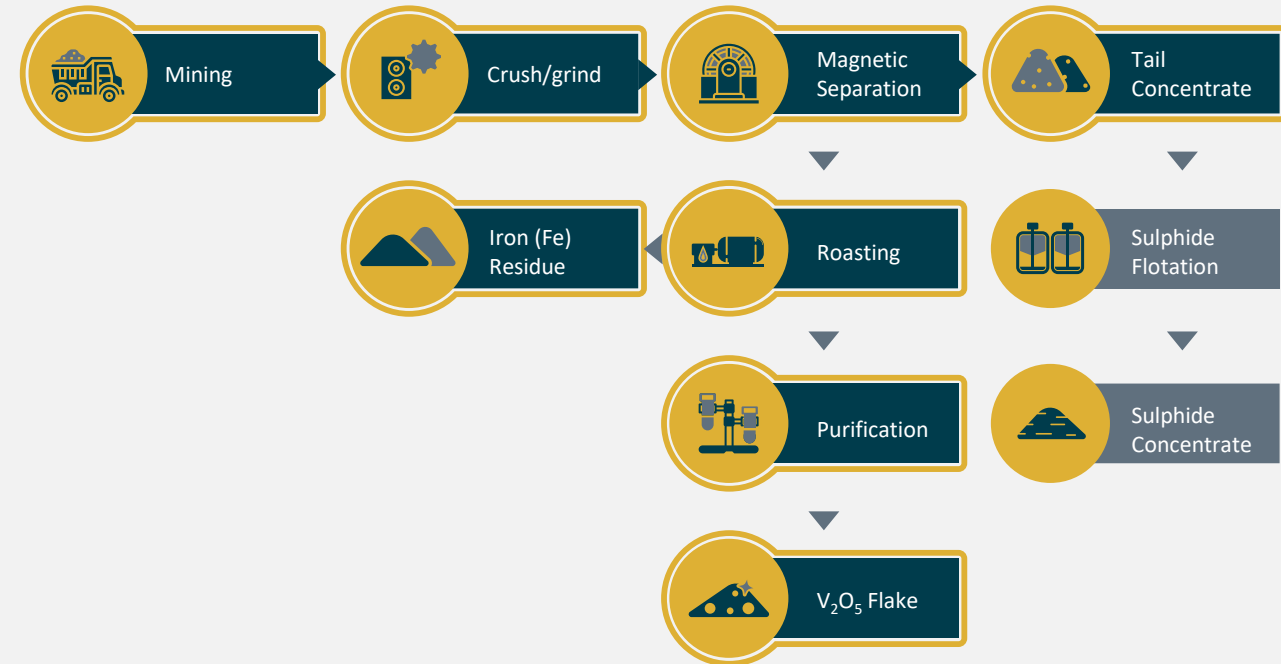


# Flow Sheet Optimisation Underway<sup>i,ii,iii</sup>



## Value Adding Testwork to Unlock the Project Value

- **Flowsheet pathway established for Vanadium Production**
- **High quality magnetic concentrate** produced;
  - **53% mass pull** from ore to concentrate
  - **1.43%  $V_2O_5$ , 59% Fe & 11.7%  $TiO_2$**  from Low Intensity Magnetic Separation (LIMS)
- **Roasting liberates Vanadium** ahead of purification;
  - **$V_2O_5$  recoveries up to 93.2%** from magnetic concentrate roasting
  - **86.7%  $V_2O_5$  total recovery** from ore feed to Vanadium Solution
- **Vanadium Pentoxide ( $V_2O_5$ ) Flake produced**
  - Final purification step testwork ongoing
  - Targeting high purity  $V_2O_5$  and electrolyte products which attract premium pricing







## FIRST HIT GOLD PROJECT

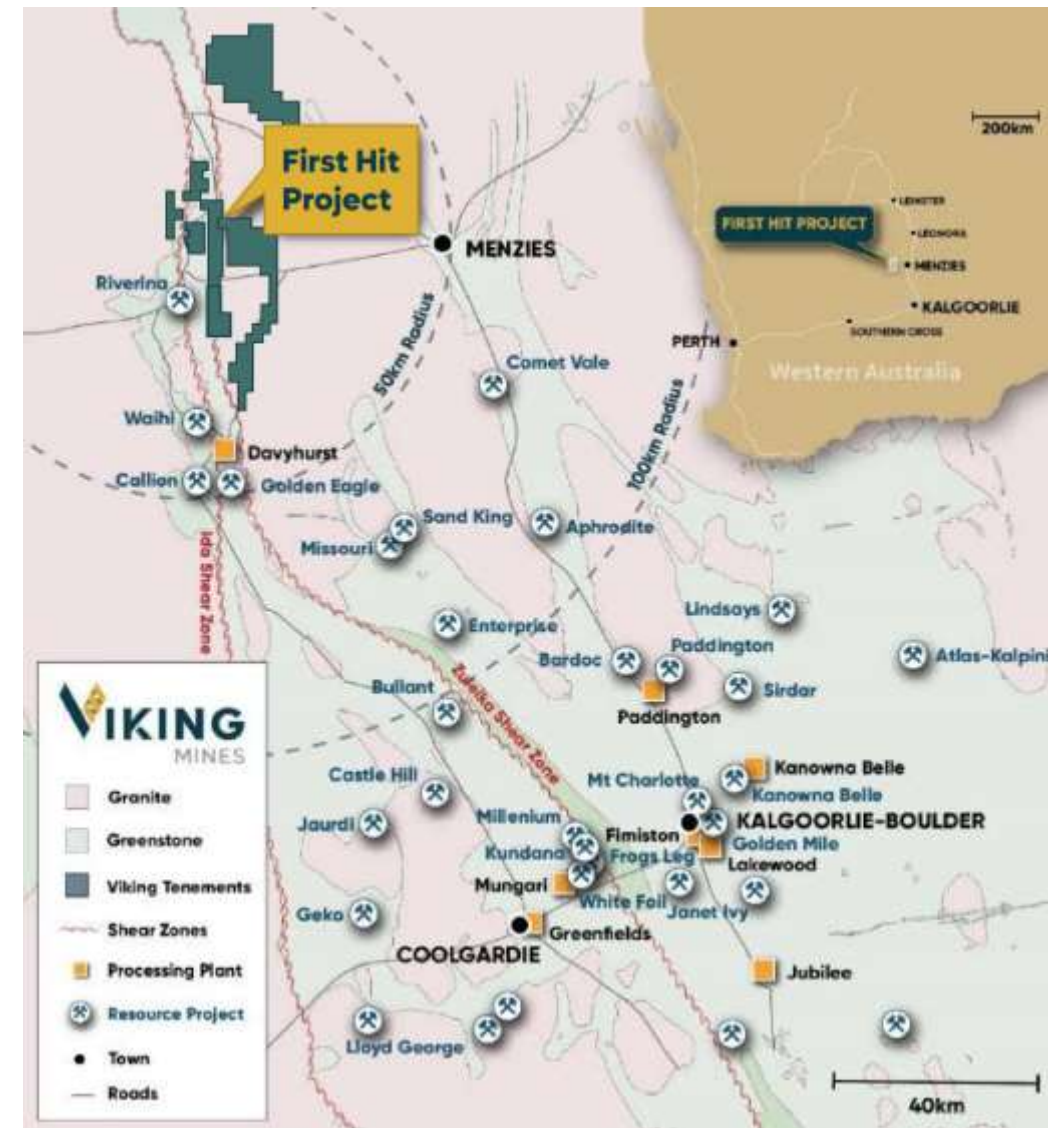
<sup>1</sup> Diamond drill core shown is from hole VDD008 at the First Hit Project  
Viking Mines Limited ASX Release 24 June 2021 [VIKING RECEIVES FIRST DIAMOND RESULTS & SIGHTS VISIBLE GOLD](#)

# First Hit Project Hunting Elephants in Elephant Country



## Large land package in well-established gold province

- Substantial ~480km<sup>2</sup> land package in the WA Eastern Goldfields
- Centred around the 100% owned historic First Hit Gold Mine.
- Adjoins Ora Banda Mining (ASX:OBM) tenure
- First Hit located 8km North of the operating Riverina Gold Mine (ASX:OBM) & 40km from the Davyhurst Mill
- Targeting narrow vein high-grade gold deposits characteristic of the Zuleika Shear





# EXCELLENT INFRASTRUCTURE & ACCESS



Site Layout - Looking South



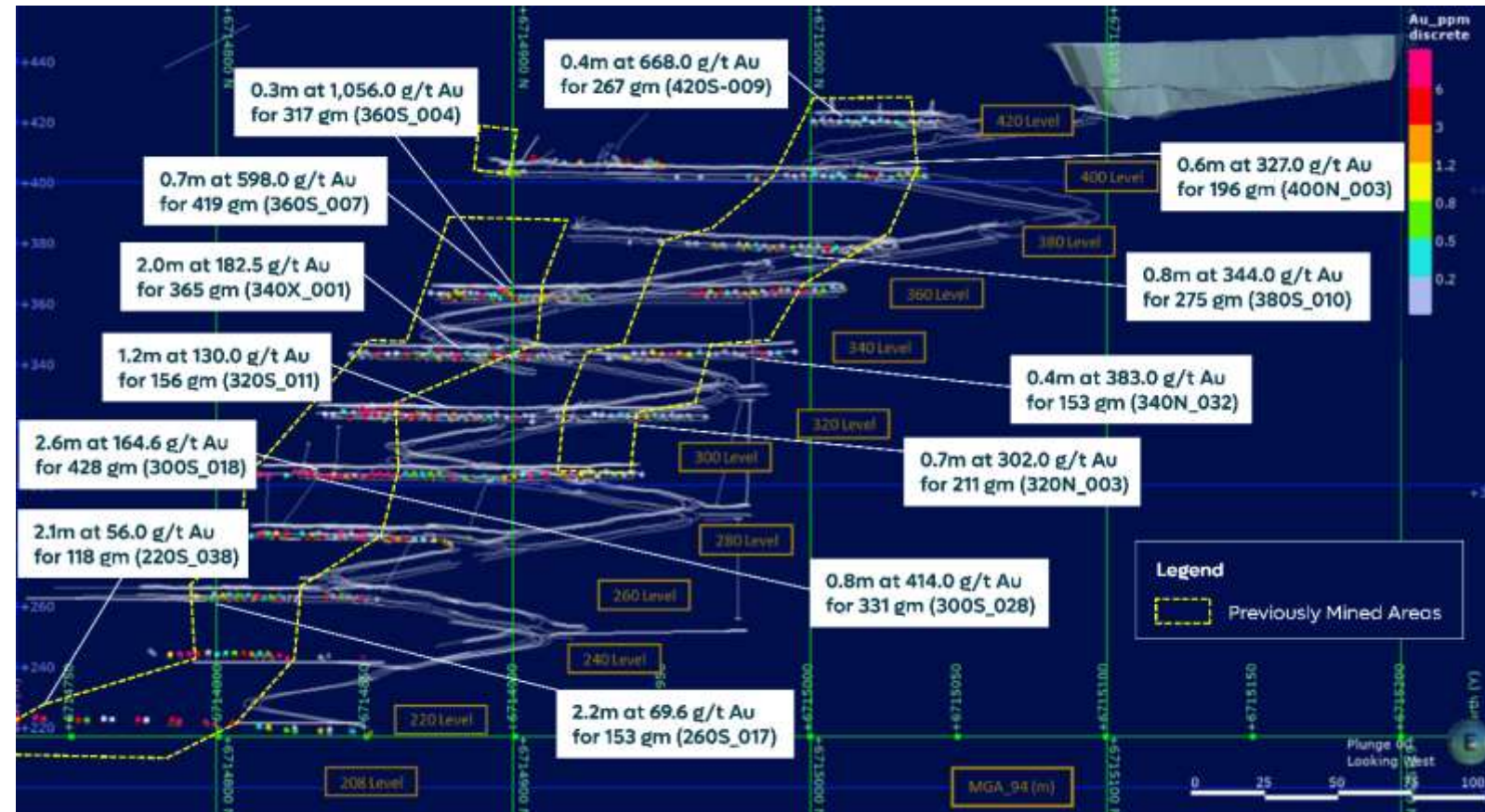


# First Hit Project High Grade Historical Gold Mine



## Historically Produced ~30koz Au at ~7.7g/t Au<sup>i</sup>

- Historical producing high-grade gold project located in the Eastern Goldfields of WA.
- Closed in 2002 when the gold price was <US\$325/oz
- Significant infrastructure in place, with decline down to ~220m below surface (~\$15M value).
- Located on a fully granted Mining Lease.
- Substantial high-grade hits in face sampling and drill database with unmined intercepts including;<sup>iv</sup>
  - **4.9m @ 64.8 g/t Au from 62.1m (FHU045)**<sup>ii</sup>
  - **3m @ 77.6 g/t Au from 224.0m (BFH030)**<sup>ii</sup>
  - **4m @ 26.1 g/t Au from 58.0m (BFH005)**<sup>ii</sup>
- Strategic review of the asset commenced
- Resource industry consultants MEC Mining appointed to undertake a mineral resource assessment to determine opportunities to define a JORC (2012) Mineral Resource<sup>iii</sup>









# First Hit Project High Priority Targets

## 25km strike of Zuleika shear untested by bedrock drilling

- 25km strike length of the Zuleika Shear controlled by Viking with limited historic drill testing.
- Same stratigraphic position as the combined >1Moz Waihi, Makai, Golden Eagle and Lights of Israel Deposits mined at Davyhurst.
- Multiple geochemical anomalies and structural targets to be tested.
- Targets at First Hit remain open for further drilling:

### Jana's Reward Target <sup>i</sup>

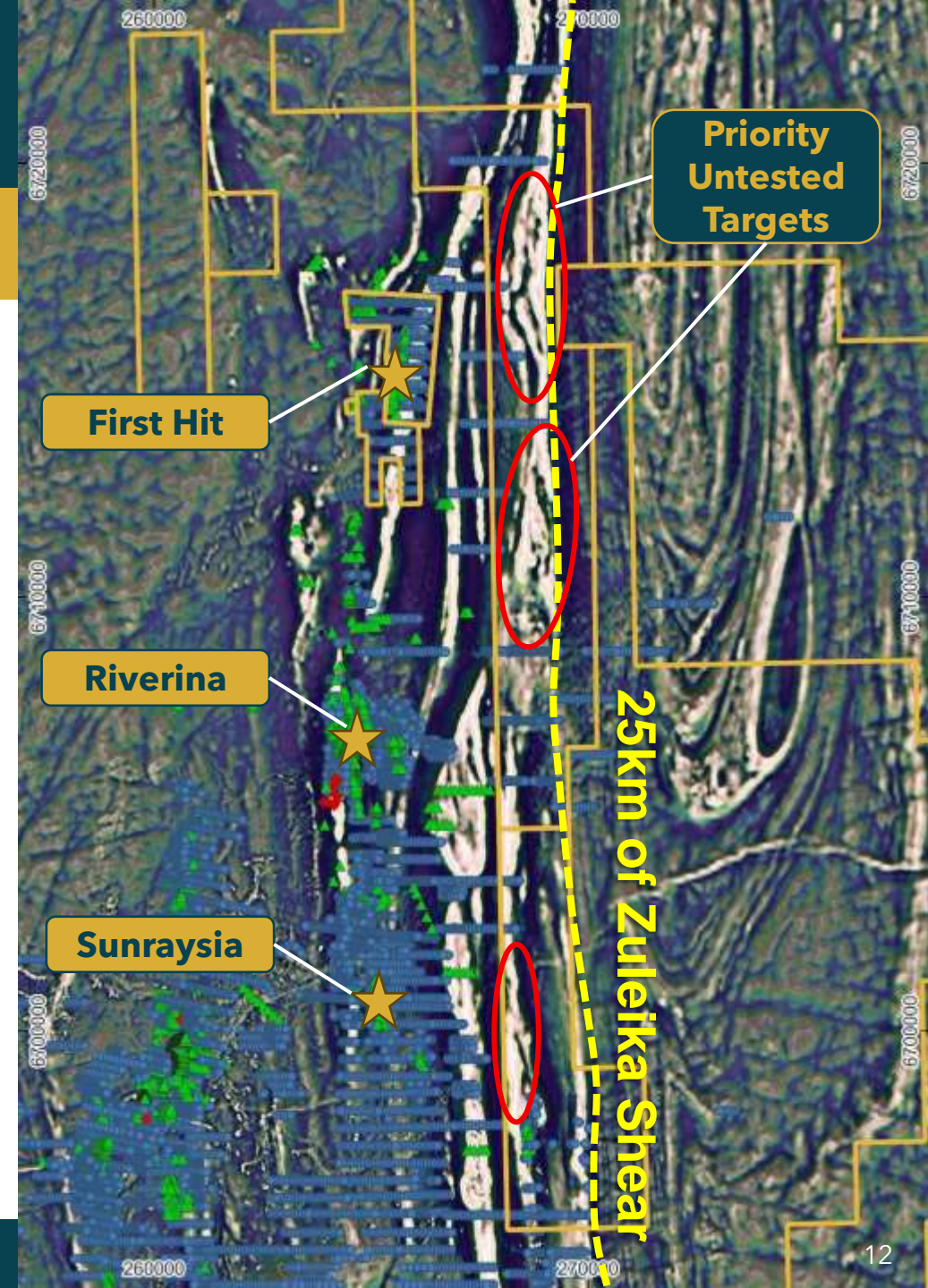
- New structural position identified running parallel to the historic First Hit structure.
  - VKRC0057: **1m at 36.49g/t Au** from 17m
  - VKRC0053: **1m at 17.83g/t Au** from 16m

### First Hit North <sup>ii</sup>

- Confirmed continuity of the First Hit Structure >800m North of the mine.
  - VKRC0023: **2m at 9.67g/t Au** from 26m

### First Hit South <sup>iii</sup>

- Extended the First Hit structure to the south for ~420m.
  - VKRC0041: **1m at 7.66 g/t Au** from 45m



# Viking Mines Advancing Projects to Add Value



## Key Workstreams

### CANEGRASS BATTERY MINERALS PROJECT

- V<sub>2</sub>O<sub>5</sub> purification and electrolyte production

### FIRST HIT GOLD PROJECT

- Resource assessment of historic First Hit Gold Mine to determine economic potential
- Regional target generation along high priority 25km strike length of untested Zuleika shear
- Drill programme to test new drill targets
- Results for follow up in mid/late Q1 FY25



## Investment Case

- Diversified exposure to Gold and Critical Mineral Vanadium
- 100% owned Projects
- Favourable Project locations near existing operations and infrastructure in Western Australia
- Significant Canegrass Vanadium resource with established flowsheet pathway and final purification step testwork underway
- Strategic review of First Hit Project underway to assess gold potential and opportunities amidst high gold price environment
- Resource assessment underway at historic First Hit Gold Mine (30Koz Au at avg mined grade of 7.7g/t) to determine economic potential for remaining unmined mineralisation
- Regional gold target generation commenced on high priority untested 25km strike length of Zuleika shear, encompassed within extensive 480km<sup>2</sup> land package
- Fully funded work plan





**For more information  
please contact:**

**Julian Woodcock**  
Managing Director & CEO  
**P** +61 8 6245 0870





# Appendix 1 – Vanadium Company Snapshot



COMPANY	VIKING MINES (ASX:VKA)	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 (Formerly ASX:TMT)	Australian Vanadium Project	Youanmi	Victory Bore and Unaly Hill	Barrambie	Windimurra
	146Mt @ 0.70% V <sub>2</sub> O <sub>5</sub>	395.4Mt @ 0.77% V <sub>2</sub> O <sub>5</sub>		135Mt @ 0.34% V <sub>2</sub> O <sub>5</sub>	465Mt @ 0.30% V <sub>2</sub> O <sub>5</sub>	280Mt @ 0.44% V <sub>2</sub> O <sub>5</sub>	209.7Mt @ 0.50% V <sub>2</sub> O <sub>5</sub>
MINERAL RESOURCES	<p><b>Inferred:</b> <u>146Mt @ 0.70% V<sub>2</sub>O<sub>5</sub></u> <b>TOTAL:</b> <b>146Mt @ 0.70% V<sub>2</sub>O<sub>5</sub></b> <small>(Source: VKA 20 November 2023)</small></p> <p><b>POS MRE:</b> <b>61Mt @ 0.81% V<sub>2</sub>O<sub>5</sub> &amp; 35.9% Fe</b> <small>(Source: VKA 18 March 2024)</small></p>	<p>Measured: 30.6Mt @ 1.13% V<sub>2</sub>O<sub>5</sub> Indicated: 136.6Mt @ 0.85% V<sub>2</sub>O<sub>5</sub> <u>Inferred:</u> <u>228.2 @ 0.66% V<sub>2</sub>O<sub>5</sub></u> <b>TOTAL:</b> 395.4 @ 0.77 V<sub>2</sub>O<sub>5</sub> <small>(Source: AVL 7 May 2024)</small></p>	<p>Measured: 31.55Mt @ 0.33% V<sub>2</sub>O<sub>5</sub> Indicated: 54.37Mt @ 0.33% V<sub>2</sub>O<sub>5</sub> <u>Inferred:</u> <u>48.82Mt @ 0.36% V<sub>2</sub>O<sub>5</sub></u> <b>TOTAL:</b> 134.73Mt @ 0.34% V<sub>2</sub>O<sub>5</sub> <small>(Source: VMC 18 March 2019)</small></p>	<p>Measured: 25.3Mt @ 0.35% V<sub>2</sub>O<sub>5</sub> Indicated: 113.2Mt @ 0.32% V<sub>2</sub>O<sub>5</sub> <u>Inferred:</u> <u>326.1Mt @ 0.28% V<sub>2</sub>O<sub>5</sub></u> <b>TOTAL:</b> 465Mt @ 0.30% V<sub>2</sub>O<sub>5</sub> <small>(Source: SRN 5 December 2023)</small></p>	<p>Indicated: 187Mt @ 0.46% V<sub>2</sub>O<sub>5</sub> <u>Inferred:</u> <u>93Mt @ 0.40% V<sub>2</sub>O<sub>5</sub></u> <b>TOTAL:</b> 280.1Mt @ 0.44% V<sub>2</sub>O<sub>5</sub> <small>(Source: NMT May 16, 2023)</small></p>	<p>Measured: 34.6Mt @ 0.49% V<sub>2</sub>O<sub>5</sub> Indicated: 123.5Mt @ 0.50% V<sub>2</sub>O<sub>5</sub> <u>Inferred:</u> <u>51.6Mt @ 0.50% V<sub>2</sub>O<sub>5</sub></u> <b>TOTAL:</b> 209.7Mt @ 0.50% V<sub>2</sub>O<sub>5</sub> <small>(Source: <a href="https://atlanticptyltd.com.au/projects/windimurra/geology-reserves-resources">https://atlanticptyltd.com.au/projects/windimurra/geology-reserves-resources</a> )</small></p>	
ORE RESERVES	n/a	<p>Proved: 1.12Mt @ 0.95% V<sub>2</sub>O<sub>5</sub> Probable: 43.36Mt @ 0.89% V<sub>2</sub>O<sub>5</sub> <b>TOTAL:</b> 44.48Mt @ 0.89% <small>(Source: <a href="https://www.tmtlimited.com.au/murchison-technology-metals-project/mineral-resources-ore-reserves/">https://www.tmtlimited.com.au/murchison-technology-metals-project/mineral-resources-ore-reserves/</a>)</small></p>	<p>Proved: 10.5Mt @ 1.11% V<sub>2</sub>O<sub>5</sub> Probable: 20.4Mt @ 1.07% V<sub>2</sub>O<sub>5</sub> <b>TOTAL:</b> 30.9Mt @ 1.09% V<sub>2</sub>O<sub>5</sub> <small>(Source: <a href="https://www.australianvanadium.com.au/our-assets/the-australian-vanadium-project/">https://www.australianvanadium.com.au/our-assets/the-australian-vanadium-project/</a>)</small></p>	n/a	<p>Probable: 93Mt @ 0.35% V<sub>2</sub>O<sub>5</sub> <b>TOTAL:</b> 93Mt @ 0.35% V<sub>2</sub>O<sub>5</sub>  <small>(Source: <a href="https://www.surefireresources.com.au/project/vanadium-resources/">https://www.surefireresources.com.au/project/vanadium-resources/</a>)</small></p>	<p>Probable: 27.6Mt @ 0.57% V<sub>2</sub>O<sub>5</sub> <b>TOTAL:</b> 27.6Mt @ 0.57% V<sub>2</sub>O<sub>5</sub>  <small>(Source: <a href="https://wcsecure.weblink.com.au/pdf/NMT/02666246.pdf">https://wcsecure.weblink.com.au/pdf/NMT/02666246.pdf</a>)</small></p>	<p>Probable: 87.5Mt @ 0.49% V<sub>2</sub>O<sub>5</sub> <b>TOTAL:</b> 87.5Mt @ 0.49% V<sub>2</sub>O<sub>5</sub>  <small>(Source: <a href="https://atlanticptyltd.com.au/projects/windimurra/geology-reserves-resources">https://atlanticptyltd.com.au/projects/windimurra/geology-reserves-resources</a>)</small></p>
PROJECT STATUS	Pit Optimisation Study (Advancing to Scoping Study)	DFS Complete	BFS Complete	Exploration	PFS Complete	PFS Complete	DFS Complete

# Appendix 2 – Canegrass Mineral Resource Estimate



## Global MRE <sup>i</sup>

Model	Deposit	Cut-Off V <sub>2</sub> O <sub>5</sub> %		JORC (2012) Classification	Volume	Density	Tonnes	Tonnage (Mt)	V <sub>2</sub> O <sub>5</sub> %	Fe %	Fe <sub>2</sub> O <sub>3</sub> %	TiO <sub>2</sub> %	Cu %	Ni %	Co %	Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	P %	P <sub>2</sub> O <sub>5</sub> %	LOI %	V <sub>2</sub> O <sub>5</sub> T	V <sub>2</sub> O <sub>5</sub> BLbs	Mt Fe	Mt TiO <sub>2</sub>	Cu T	Ni T	Co T
		From	To																								
November 2023 Model	Fold Nose	0.00	0.50	Inferred	5,888,852	3.3	19,650,571	19.7	0.44	21.8	31.2	4.1	0.056	0.046	0.012	15.8	31.9	0.005	0.01	1.4	86,017	0.19	4.3	0.8	11,063	9,122	2,296
		0.50	0.80	Inferred	16,751,576	3.6	60,641,026	60.6	0.65	30.3	43.3	6.2	0.057	0.059	0.015	13.1	23.2	0.004	0.01	1.8	396,405	0.87	18.4	3.8	34,427	35,965	8,989
		0.80		Inferred	3,710,784	3.9	14,468,533	14.5	0.87	37.5	53.6	8.0	0.070	0.071	0.018	9.9	16.5	0.004	0.01	1.3	125,508	0.28	5.4	1.2	10,102	10,343	2,675
		>0.5		Inferred	20,462,360		75,109,560	75.1	0.69	31.7	45.3	6.5	0.059	0.062	0.016	12.5	21.9	0.004	0.01	1.7	521,913	1.15	23.8	4.9	44,530	46,308	11,664
	Kinks South	0.00	0.50	Inferred	2,115,784	3.7	7,800,150	7.8	0.42	21.2	30.3	4.4	0.044	0.041	0.011	18.0	31.4	0.007	0.02	3.7	32,893	0.07	1.7	0.3	3,417	3,214	835
		0.50	0.80	Inferred	5,121,216	3.8	19,611,721	19.6	0.65	30.1	43.1	6.1	0.071	0.066	0.016	11.8	22.4	0.003	0.01	2.5	128,032	0.28	5.9	1.2	13,877	12,983	3,090
		0.80		Inferred	2,460,284	3.9	9,573,436	9.6	0.88	36.8	52.7	8.0	0.076	0.071	0.019	8.6	16.3	0.003	0.01	1.7	84,614	0.19	3.5	0.8	7,285	6,814	1,783
		>0.5		Inferred	7,581,500		29,185,158	29.2	0.73	32.3	46.2	6.7	0.073	0.068	0.017	10.7	20.4	0.003	0.01	2.3	212,647	0.47	9.4	2.0	21,162	19,797	4,873
	Kinks	0.00	0.50	Inferred	937,416	3.6	3,336,852	3.3	0.47	22.9	32.8	5.0	0.051	0.037	0.012	16.7	30.1	0.010	0.02	0.7	15,734	0.03	0.8	0.2	1,688	1,251	403
		0.50	0.80	Inferred	10,182,016	3.7	38,032,009	38.0	0.66	31.2	44.7	6.4	0.074	0.057	0.016	11.3	22.8	0.009	0.02	1.3	251,368	0.55	11.9	2.4	28,057	21,671	6,148
		0.80		Inferred	883,732	3.9	3,452,161	3.5	0.84	38.2	54.6	8.1	0.080	0.069	0.020	7.6	16.8	0.004	0.01	1.0	28,830	0.06	1.3	0.3	2,755	2,396	674
		>0.5		Inferred	11,065,748		41,484,170	41.5	0.68	31.8	45.5	6.6	0.074	0.058	0.016	11.0	22.3	0.008	0.02	1.3	280,198	0.62	13.2	2.7	30,812	24,067	6,822
	Combined	0.00	0.50	Inferred	8,942,052	3.4	30,787,573	30.8	0.44	21.8	31.1	4.3	0.053	0.044	0.011	16.4	31.6	0.006	0.01	1.9	134,643	0.30	6.7	1.3	16,168	13,586	3,534
		0.50	0.80	Inferred	32,054,808	3.7	118,284,756	118.3	0.66	30.6	43.7	6.3	0.065	0.060	0.015	12.3	22.9	0.006	0.01	1.8	775,805	1.71	36.1	7.4	76,361	70,619	18,227
		0.80		Inferred	7,054,800	3.9	27,494,131	27.5	0.87	37.3	53.4	8.0	0.073	0.071	0.019	9.1	16.5	0.003	0.01	1.4	238,953	0.53	10.3	2.2	20,142	19,553	5,132
		>0.5		Inferred	39,109,608		145,778,887	145.8	0.70	31.8	45.5	6.6	0.066	0.062	0.016	11.7	21.7	0.005	0.01	1.7	1,014,758	2.237	46.4	9.6	96,503	90,172	23,359

## Pit Optimisation Study <sup>ii</sup>

Deposit	Cut-off % V <sub>2</sub> O <sub>5</sub>	JORC (2012) Classification	Tonnage (Mt)	V <sub>2</sub> O <sub>5</sub> %	Fe %	Cu %	Ni %	Co %	TiO <sub>2</sub> %
Fold Nose	0.7	Inferred	39.0	0.81	36.0	0.068	0.070	0.018	7.6
Kinks	0.7	Inferred	15.9	0.77	35.5	0.080	0.080	0.018	7.4
Kinks South	0.7	Inferred	6.3	0.85	36.7	0.074	0.074	0.018	7.8
<b>Total</b>	<b>0.7</b>	<b>Inferred</b>	<b>61.2</b>	<b>0.81</b>	<b>35.9</b>	<b>0.071</b>	<b>0.069</b>	<b>0.018</b>	<b>7.6</b>