



Massive Nickel Sulphide Hits in Elephant Country



Nickel Sulphide Intercepts Confirm Potential within the East African Nickel Belt

September 2023

ASX: **ADD**

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Competent Person Statement

The information in this release that relates to “exploration results” for the Nickel Project is based on information compiled or reviewed by Mr David Dodd of MSA, South Africa. Mr Dodd is a consultant for Adavale Resources Limited and is a member of the SACNASP. Mr Dodd has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration as well as to the activity that is being undertaking to qualify as a Competent Person under the ASX Listing Rules. Mr Dodd consents to this release in the form and context in which it appears.

The information in this release that relates to “exploration results” for the Uranium Project is based on information compiled or reviewed by Mr Patrick Harvey MAppSci, Australia. Mr Harvey is a consultant for Adavale Resources Limited and is a member of the AIG. Mr Harvey has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration as well as to the activity that is being undertaking to qualify as a Competent Person under the ASX Listing Rules. Mr Harvey consents to this release in the form and context in which it appears.

Visual Estimates & pXRF usage

Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations. The Company regularly uses a portable hand-held XRF analyser to screen drill core for mineralisation before cutting and sampling. This allows for some understanding of the distribution of mineralisation prior to sampling to better ensure that the sampled core is representative of the type and style of mineralisation. Numerous readings are obtained and recorded for future reference. The hand-held XRF provides confirmation that mineralisation is present however it is not an accurate determination of the elemental concentration within the sample analysed. Limitations include; very small analysis window, possible inhomogeneous distribution of mineralisation, analytical penetration depth and possible effects from irregular rock surface. The pXRF readings are subject to confirmation by chemical analysis from an independent laboratory.

References

1. ASX Announcement 7 July 2022 “32 Nickel Targets Identified in the East African Nickel Belt”
2. ASX Announcement 13 September 2022 “Multiple Nickel Targets generated from successful EM survey”
3. ASX Announcement 7 December 2022 “Exploration Update – Kabanga Jirani Nickel Project”
4. ASX Announcement 24 January 2023 “Strategic Expansion at Kabanga Jirani”
5. ASX Announcement 4 April 2023 “Nickel sulphide drill target and 15km anomaly defined”
6. ASX Announcement 28 April 2023 “March Quarterly Activity and Cashflow Report”
7. ASX Announcement 6 June 2023 “Massive Nickel Sulphides intersected at Kabanga Jirani”
8. ASX Announcement 8 June 2023 “Second Luhuma Central hole commenced at Kabanga Jirani”
9. ASX Announcement 19 June 2023 “ADD Continues to Intersect Zone of Strong Nickel Sulphide”
10. ASX Announcement 10 July 2023 “Assays Confirm Massive Nickel Sulphides at Luhuma Central”
11. ASX Announcement 25 July 2023 “Adavale Replicates Maiden Massive Nickel Sulphide Intersection”
12. ASX Announcement 4 August 2023 titled “DHEM Delivers Massive Sulphides Extensions”.
13. ASX Announcement 17 August 2023 “Massive and Semi Massive Sulphide Zones Intersected
14. ASX Announcement 6 September 2023 Over 340m of Nickel Sulphide Mineralisation at Luhuma
15. www.lifezonemetals.com

Kabanga Jirani + Luhuma

Dominance in East African Nickel Belt

Dominant nickel licence portfolio within the **East African Nickel Belt** of Tanzania covers **1,315 sq km**

Portfolio Overview

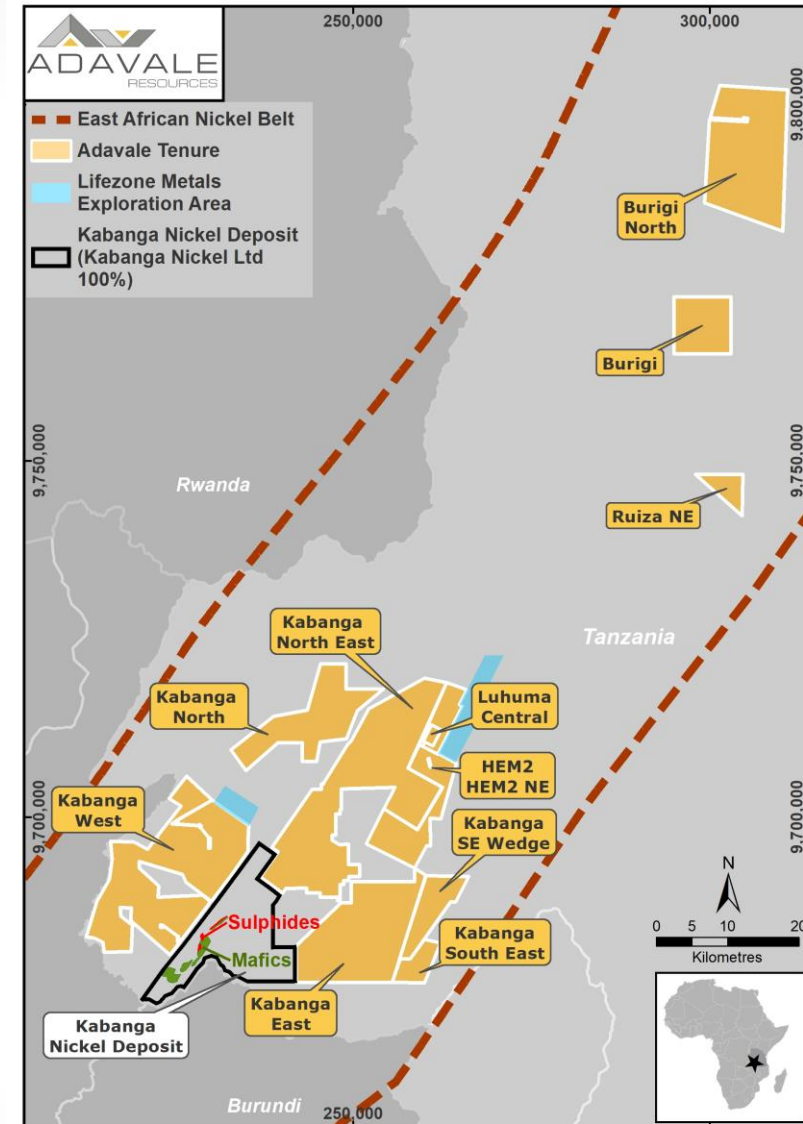
100% owned Licences + Luhuma Farm – In ground
(initial 65%, moving to 80%, trigger to 100%)

Licences are adjacent and along strike from the world's largest “under development” high-grade **Kabanga nickel sulphide deposit**, 58Mt @ 2.62% Ni

Gravity, magnetics, Heli-EM, soil geochemistry and Audio-Magneto Tellurics (AMT) have been used for prospect targeting

Drilling has targeted high-priority conductors

Nickel Sulphides intersected in all five holes at Luhuma Central (over 350m from 2,000m of Diamond Drilling)



Luhuma Central

Nickel Sulphide drill intersections achieved in all five drillholes / significant mineralised zone at DDLUHC005

LUHUMA CENTRAL MINERALISED INTERSECTIONS

DDLUHC001 to DDLUHC005

Drillhole ID	Massive Sulphide (m)	Semi-Massive sulphide (m)	Blebbly + Disseminated Sulphide (m)	Total (m)
DDLUHC001	4.13	1.00		5.13
DDLUHC002			5.00	5.00
DDLUHC003	7.55			7.55
DDLUHC004	1.12	3.22	14.40	18.74
DDLUHC005		15.60	327.70	343.30
Total	14.02	25.54	340.20	379.76

- 380 metres of nickel sulphides intersected from 2,000 metres of drilling
- Zones of massive nickel sulphides, semi-massive and disseminated nickel sulphides



Diamond Drilling at Luhuma Central LUHC003

Luhuma Central

Assay results received and assays pending

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LUHUMA CENTRAL ASSAY RESULTS AND HISTORICAL DRILLHOLES							
Drillhole ID	Nature of Mineralisation	From (m)	To (m)	Thickness (m)	Ni %	Cu %	Co %
DDLUHC001	Massive Sulphide	223.4	227.5	4.13	1.03	0.14	0.17
DDLUHC001	Semi-Massive Sulphide	249.0	250.0	1.00	0.63	0.09	0.02
DDLUHC002	Blebbly Sulphide	200.6	205.6	5.00	0.41	0.08	0.02
DDLUHC003	Massive Sulphide	261.7	269.3	7.55	—	—	—
DDLUHC004	Semi-Massive	250.2	252.2	2.00	—	—	—
DDLUHC004	Semi-Massive	255.2	256.4	1.22	—	—	—
DDLUHC004	Massive Sulphide	256.4	257.5	1.12	—	—	—
DDLUHC004	Disseminated Sulphide	286.7	294.2	7.50	—	—	—
DDLUHC004	Alternating semi and massive sulphide	316.3	323.2	6.94	—	—	—
DDLUHC005	Semi-Massive	408.0	423.6	15.6	—	—	—
DDLUHC005	Disseminated Sulphide	80.3	408.0	327.70	—	—	—

– Assay Results still pending



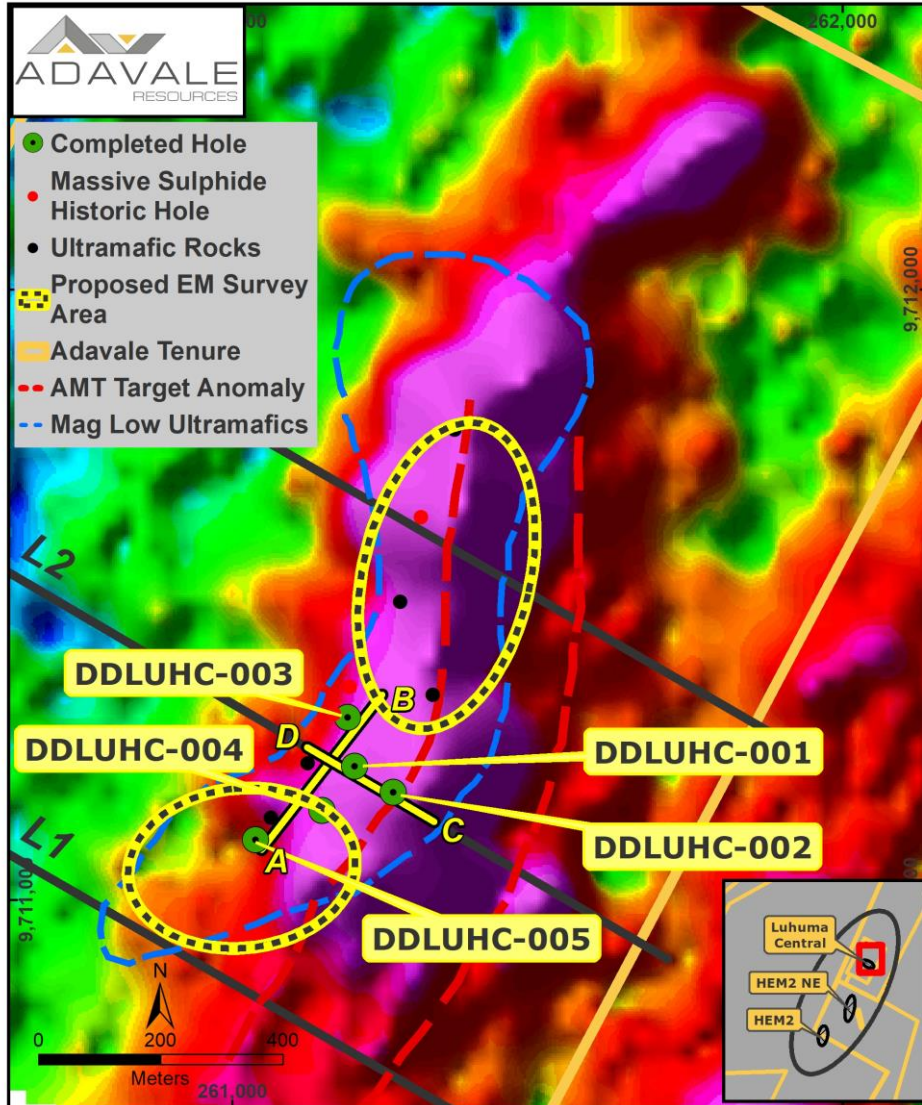
Image: 7.55 m of Massive Nickel Sulphides intersected from 261.7m DDLUHC003

- Assay results received for DDLUHC001 + 002
- Assays pending for DDLUHC003+004
- DDLUHC005 Core logged and samples for assay being selected over 340m

Luhuma Central

Massive Nickel Sulphides intersected + Completed drillholes

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Plan view of current completed diamond drill holes (green dots)

Historical holes

red dot massive sulphides intersected

black dots indicate Ultramafic rocks intersected

AMT lines L1 to L3 surveyed by Adavale

Blue outline magnetic low interpreted to be the host ultramafics

Red corridor AMT anomaly interpreted as the mineralised trend

Proposed Ground EM survey areas (yellow) – extension of drilling pathway

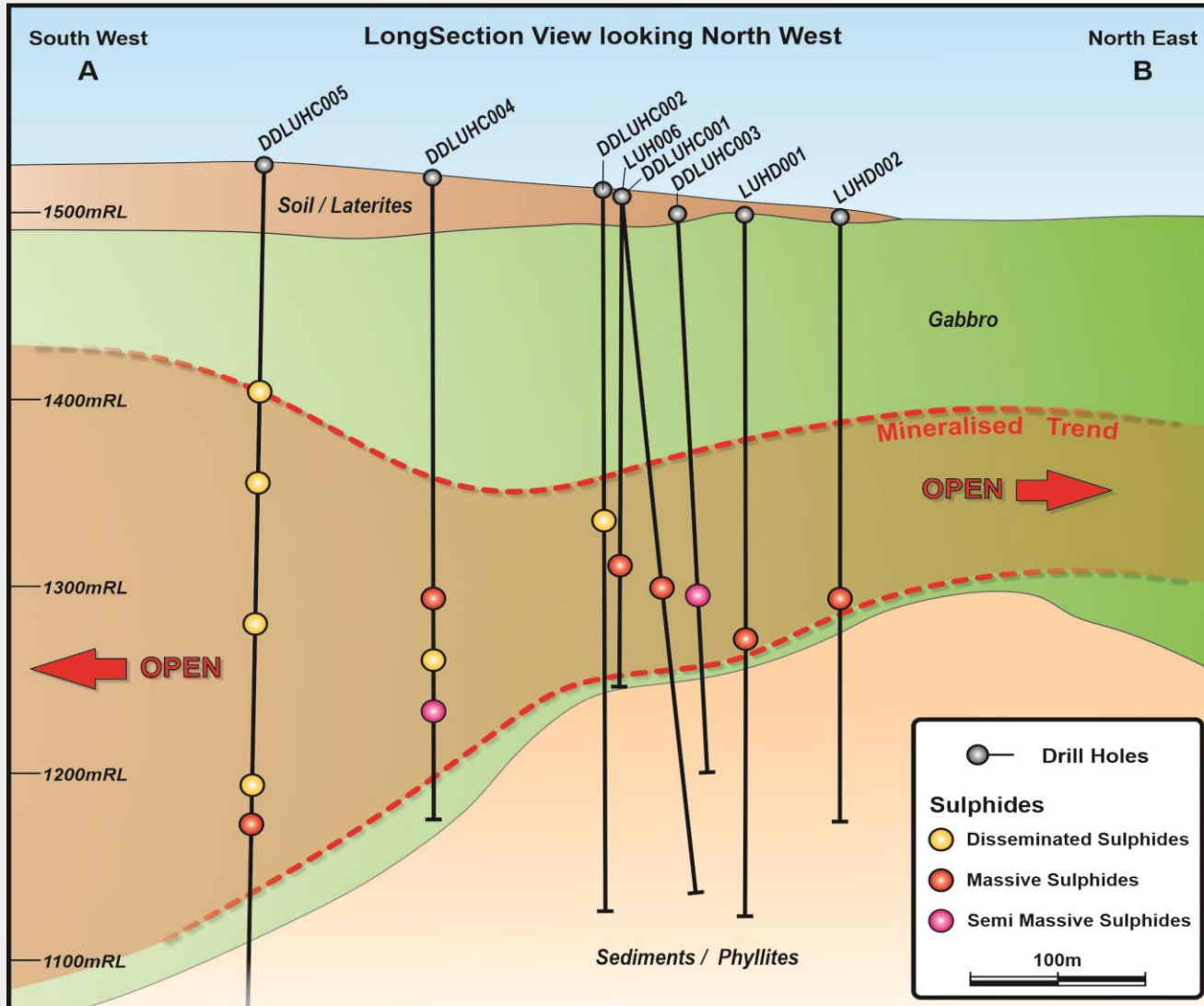
Potential Mineralised Strike length 1-1.5kms (open N-S)

DHEM completed on all five drillholes

Initial interpretation indicates potential thickening of mineralisation to the southwest

Luhuma Central

Long section shows open-ended potential north-south



Mineralisation currently defined over 300m+ strike length (remains open N-S)

Mineralisation thickening to the Southwest

340m mineralised zone intersected in DDLUHC005

- +300m Disseminated Ni Sulphide
- 15m Semi-Massive Ni Sulphides

Luhuma Trend

Anomalous prospects extend over 10km strike

LUHUMA CENTRAL

Awarded in May 2023

High priority targets, refined using AMT

Nickel sulphides intersected in all five drillholes

DHEM/ground EM surveys to identify strike extensions in progress

Further DD holes being planned

HEM 2

Initially drilled in 2022

Sulphides and right geology intersected

Review of DHEM and Drilling outcomes under consideration

HEM 2NE + 2E

AMT surveys completed

Coincident EM, gravity and soil geochem generated targets

Historical disseminated and massive nickel sulphide intercepts reported

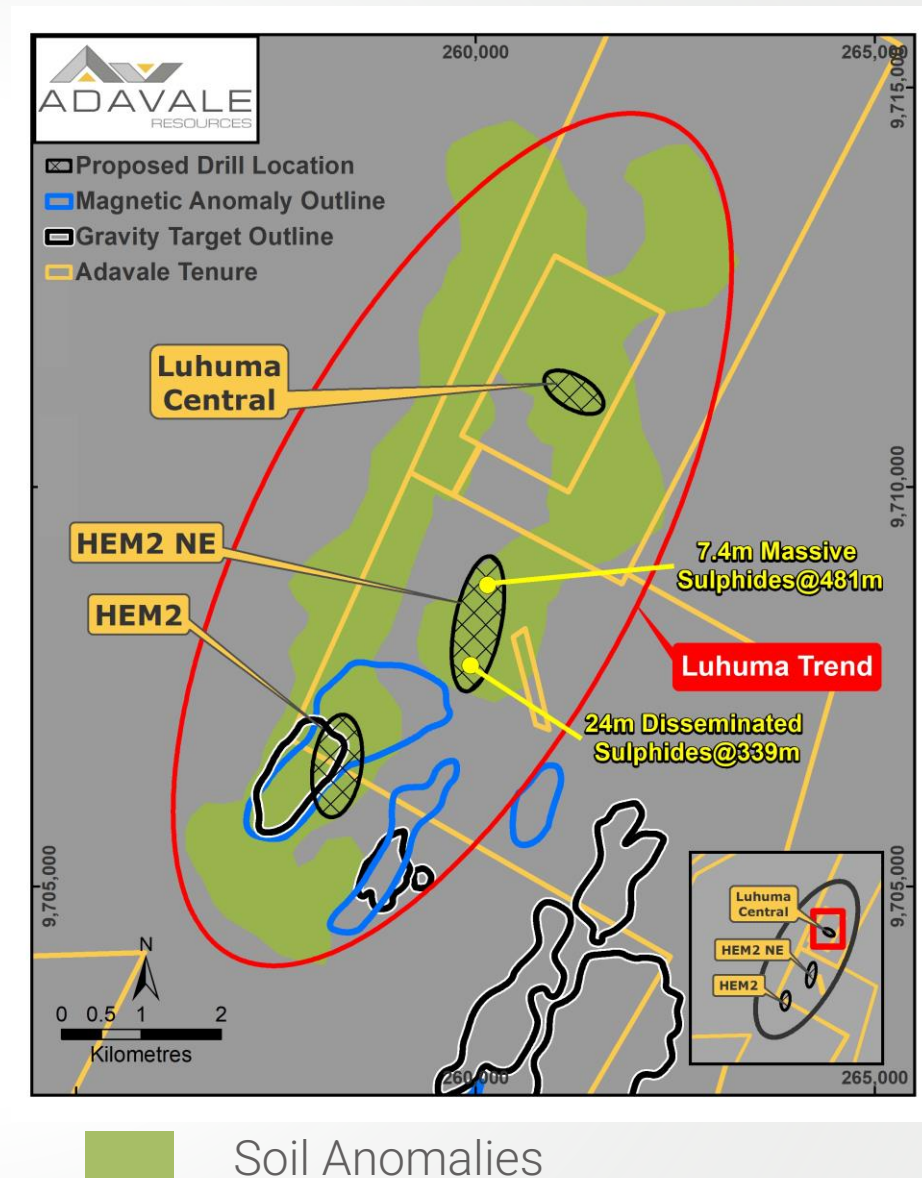
Planned DD holes identified

HEM 4

Coincident EM, gravity and soil geochem targets generated

Priority RC drilling and drill pad preparation completed

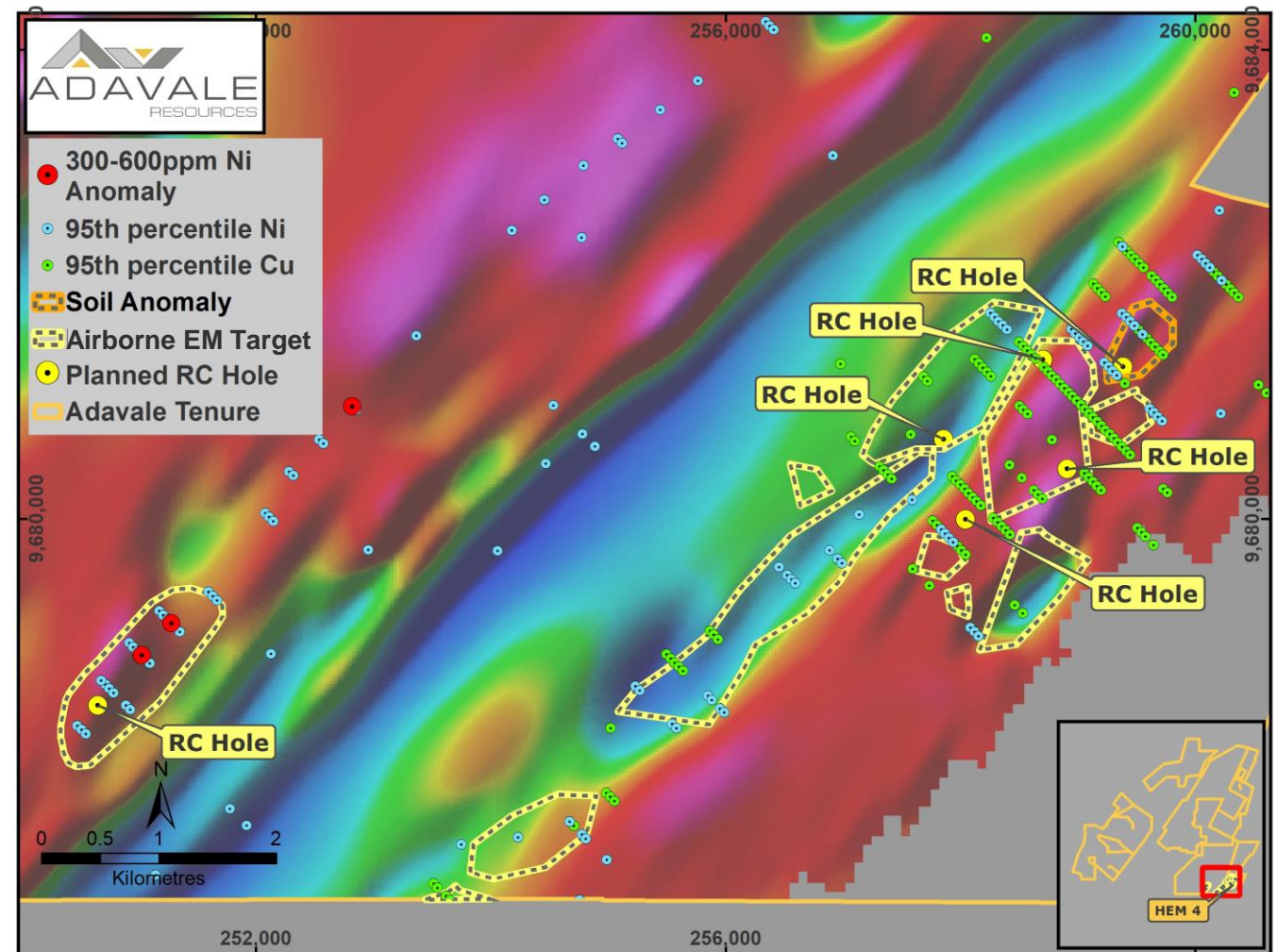
RC drilling to commence shortly



Planned Drill Program - HEM4

Drilling preparation completed for initial RC drilling at HEM 4

- High priority targets identified
- Planned 6-hole RC program (900m) average depth 150m
- Pad preparation in progress for initial 3 RC holes
- Drilling to target ultramafic rocks coincident with high nickel-copper anomalies
- Zones of high-grade Ni/Cu soils identified (300-600ppm Ni)

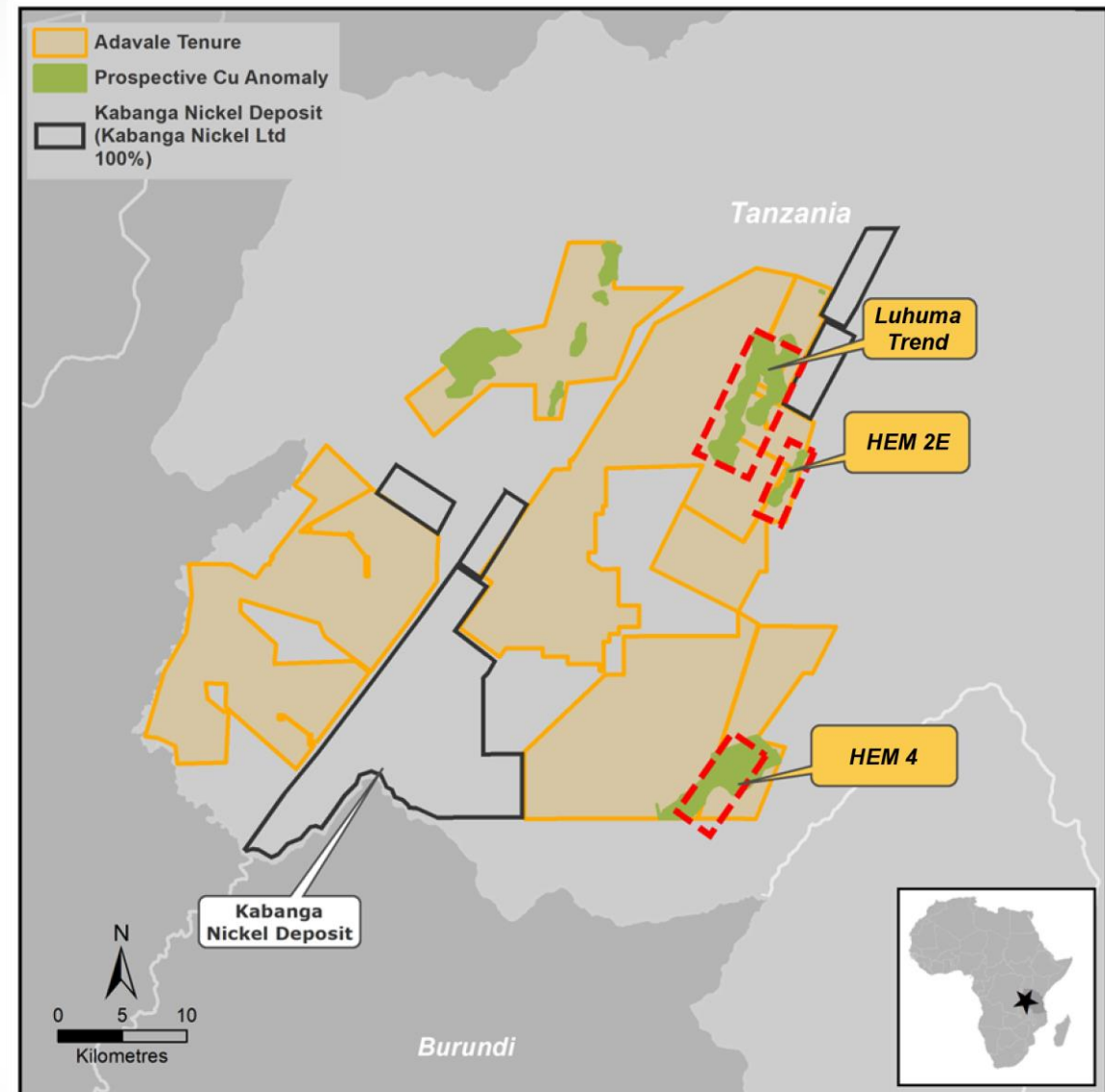


HEM 4 targets shown over airborne magnetics

Next Steps

Busy exploration program and results expected for the remainder of CY 23

- Ground EM underway to assist targeting N-S strike extensions at Luhuma Central
- Further DD at Luhuma Central (in planning based on ground EM)
- RC drilling at HEM4 + HEM2E
- DHEM/Ground EM and AMT at other selected targets
- Further assay results to be reported from DD holes
 - DDLUHC003 & DDLUHC004
 - DDLUHC005 – Core cutting and sample selection for broad zones of mineralisation underway



Tanzania – An Attractive Mining Destination

- Mining is a crucial sector for Tanzania, generating more than US\$2.5 billion annually and accounting for over 50% of the country's exports by value
- President Samia Suluhu Hassan, has pledged a “commitment to the development of the mining sector”, with the aim of the mining sector accounting for 10% of the country's GDP by 2025, up from 6.7% in 2020
- Renewal of public sector management with focus on project delivery
- Framework Agreements with consistent terms are being executed with international mining company investors
- Clear government ownership interest (16%) established
- Good infrastructure in place, with upgrades underway

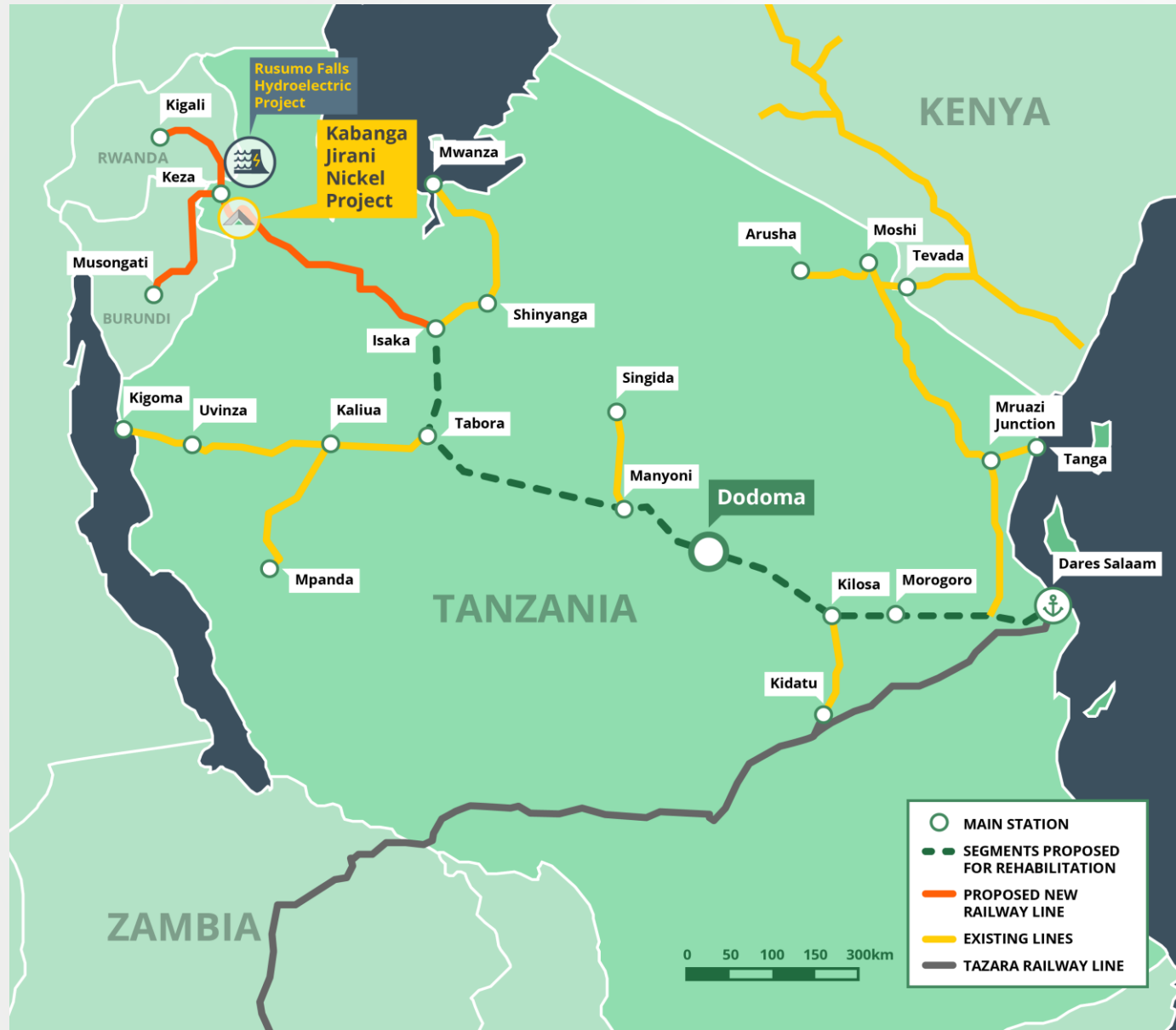


President Samia Suluhu Hassan and US Vice President Kamala Harris recently met to discuss strengthening ties between the two countries.

Major Regional Infrastructure in Progress

Rail and Power Projects Supporting Commercial and Mining Developments

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Tanzania Standard Gauge Railway Project

- Multi-stage rail project with connections to Dar es Salaam
- New major regional terminal near Kabanga Jirani with spur lines to Rwanda and Burundi



Rusumo Falls Hydroelectric Project

- 80MW project supplying Tanzania, Burundi and Rwanda
- Currently commissioning

Tanzanian Social and Community Focused Initiatives

Local community and health focused initiatives



Vaka Health Foundation (sponsorship)

- Providing professional development train for 60 nurses at Ngara District Hospital
- AAMEG 2022 award winner: Best Workforce & Industry Development Initiative



Bridge2Aid Australia

- Prevention of infant oral mutilation
- Training, awareness and treatment



Rulenge District School

- Donation of 80 classroom desks



Local Employment

- Graduate positions as field assistants
- Local procurement
- Drilling companies sourced locally



Lake Surprise Uranium Project, South Australia

- Located in South Australia - 550km north of Adelaide and 75km east of Marree
- Proven uranium province hosting multiple mines and deposits - 90km from Beverly Four Mile Uranium mine
- 100% owned tenure comprising 4 granted EL's (~1,080sqkms) on the northern flank of the Flinders Ranges (considered highly uraniferous)
- Helium study from satellite imagery indicated several anomalies coincident with gamma anomalies and better defines uranium targets for exploration.
- 400km gamma survey completed Nov 2021¹ interpreted to be hosted in the silicified sediments of a palaeochannel system discharging from northern Flinders Ranges
- Assay summary from rock chip samples² :
 - ✓ Highest uranium content of 356ppm
 - ✓ 11 of 28 rock chip samples with uranium content above 100ppm (7 above 200ppm)
 - ✓ Elevated gamma correlating with the uranium in samples



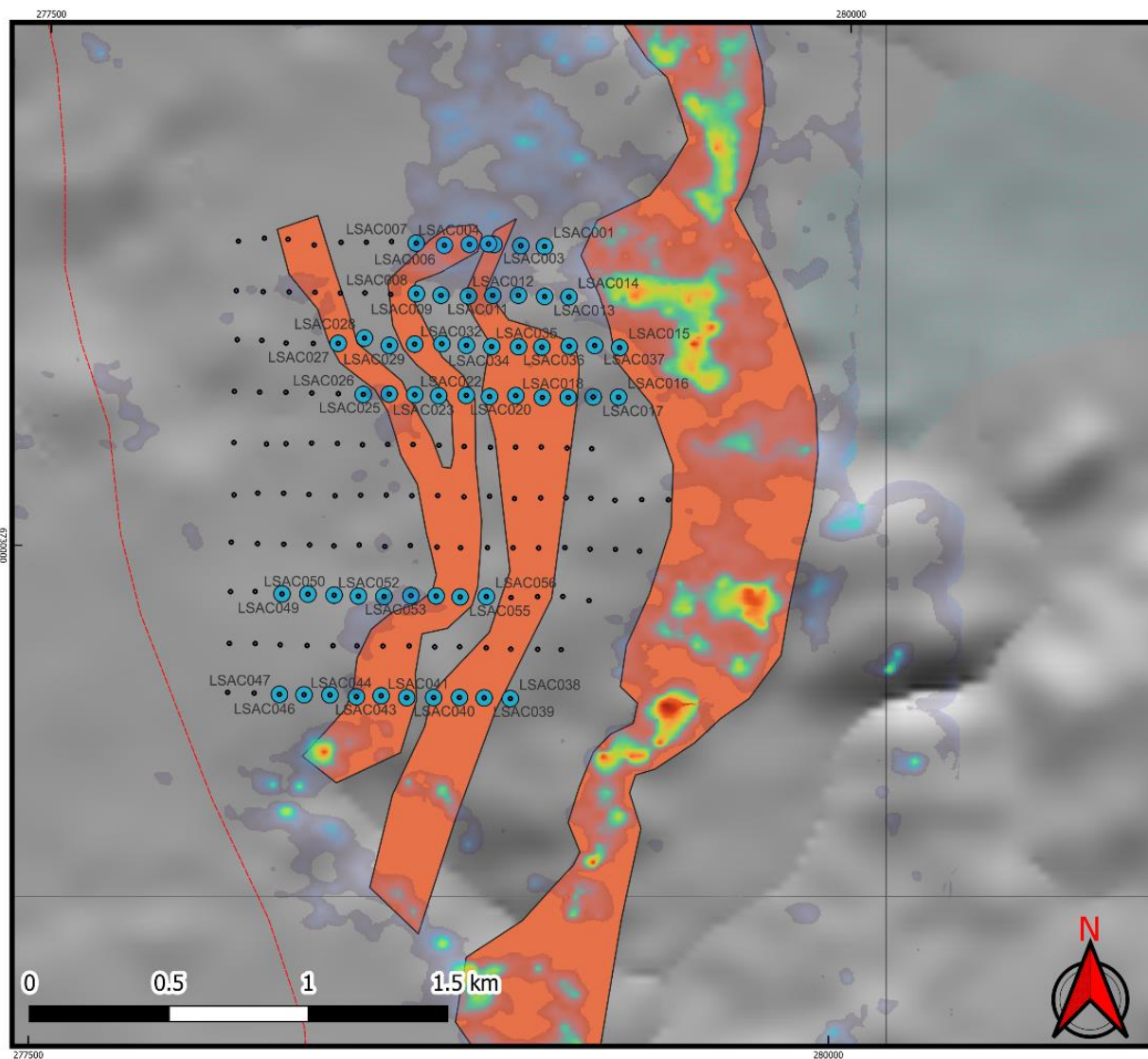
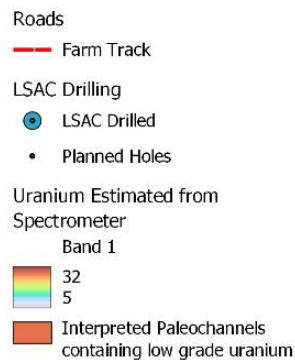
Location Map Lake Surprise South Australia

*1 ASX release dated 17 December 2021 "Gamma Results Between 5 and 40 Times Background Radiation Levels at Adavale's Uranium Licences" * 2 ASX release dated 7 February "Lake Surprise Uranium Geochemistry Results"

Drilling Confirms Uranium Mineralisation

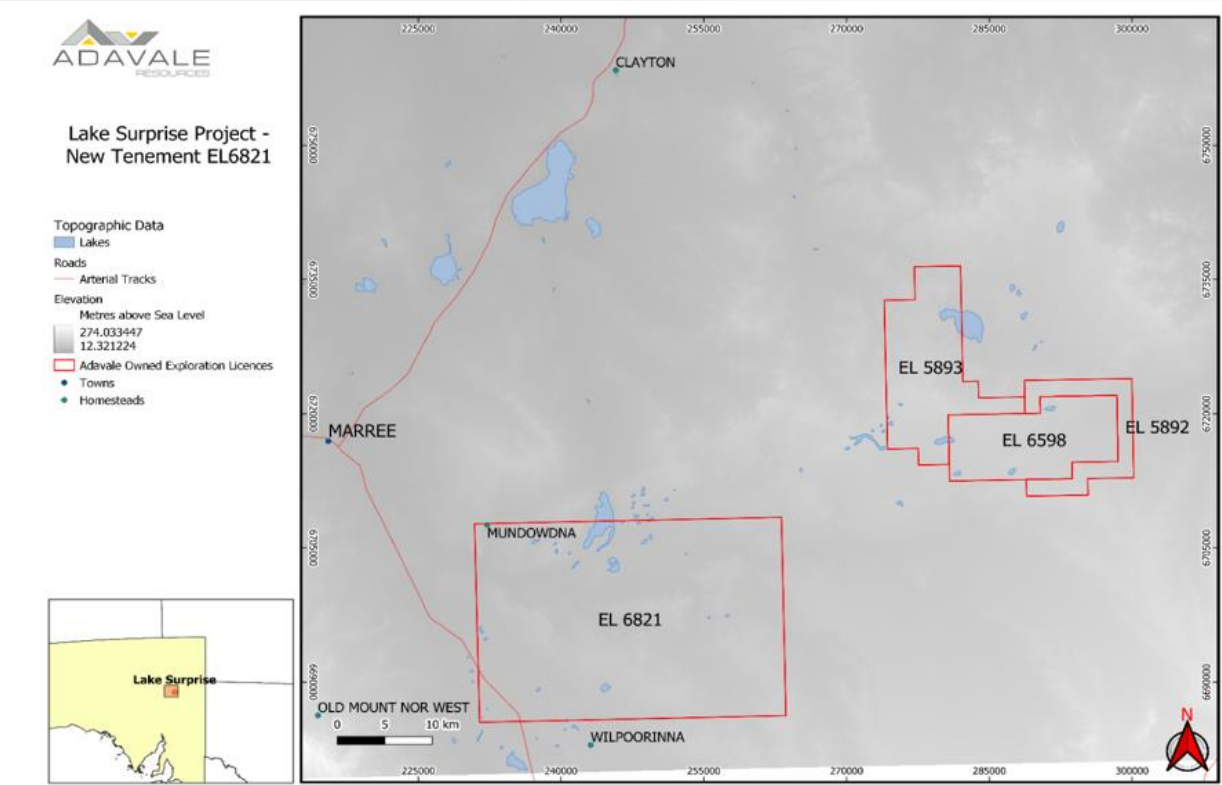


Lake Surprise Interpreted Palaeochannel System hosting uranium



- 742m aircore uranium drilling program (~ 56 holes) completed in February 2023
- Results identified uranium hosted in a complex braided channel environment.
- Drilled area is a very small subset of the overall tenement package.
- Next step is geophysics to target the mineralised braided channels at Lake Surprise and the Company's Canegrass, Jubilee and Mookwarinna prospects.

Exploration Licences – South Australia



Exploration Licence ID	Area (km ²)	Project Location
EL 5892	60	Lake Arthur East, South Australia
EL 5893	167	Lake Arthur, South Australia
EL 6598	137	Canegrass Swamp, South Australia
EL 6821	714	S/W Lake Surprise, South Australia
Total	1,078	



Corporate Overview

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730m*

Shares

1.4c

Share Price (14 Aug 23)

\$10.3m

Market Cap

~\$1m*

Cash @ 30 June

~6%

Board/Execs Ownership

282.4m*

Options

5m (unlisted) @ \$0.03, exp 8/25
9m (unlisted) @ \$0.15, exp 1/25
268.4m (listed) @ \$0.03, exp 12/25 ADDOA

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Convertible Notes

Face value \$10,000 each

11.25m

Performance
Rights

***Placement and Rights issue secured \$3.3m** via the issue of 172m shares at 1.9 cents with free attaching listed options exercisable at 3 cents expiring 31 Dec 2025

Grant Pierce

Non-Executive Chairman

Mining engineer with ED, NED, GM experience. Strong and long-standing affinity with Tanzania

David Riekie

Executive Director

Corporate experience, ASX roles (NED, MD, ED, CEO) including Nickel, Uranium/Energy, African experience

John Hicks

Non-Executive Director

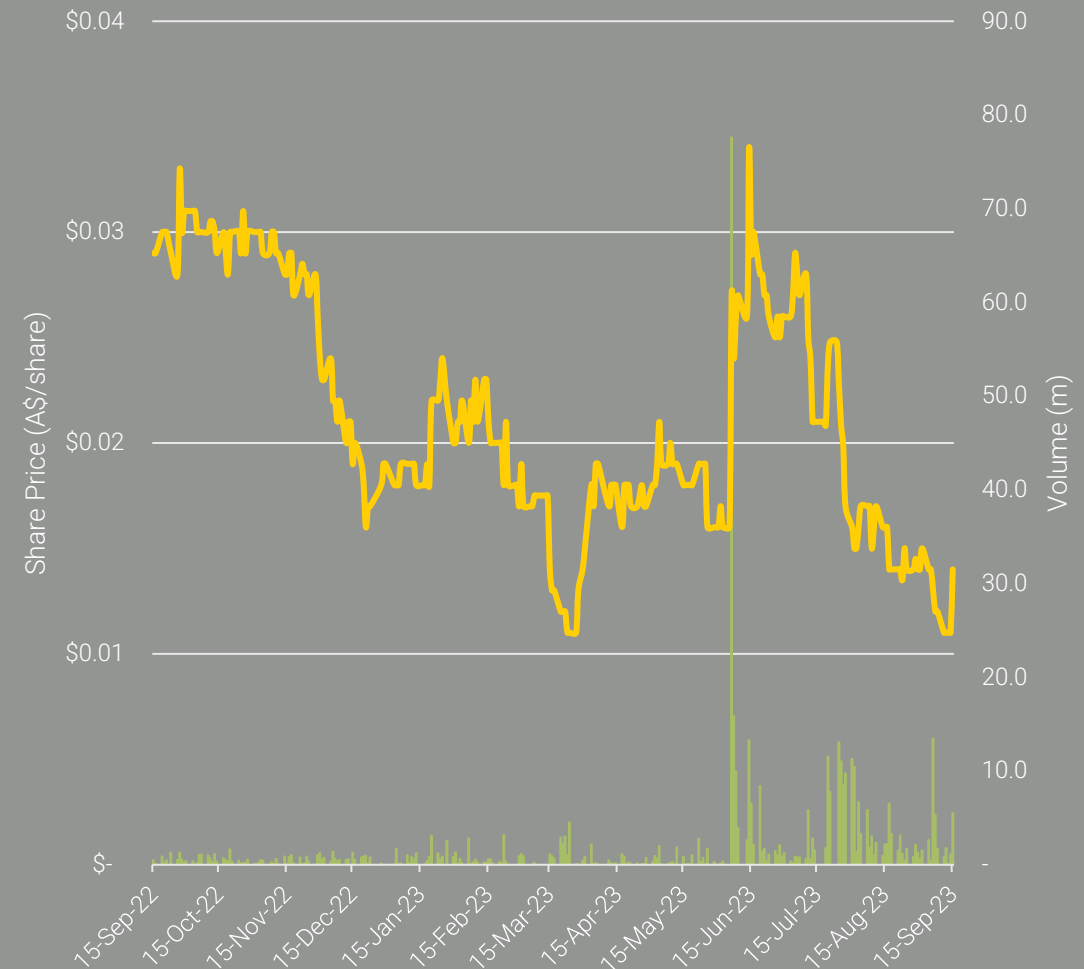
Accomplished Nickel Sulphide Geologist/ Explorer, 15yrs of GM level Geo/Explorer for ASX listed companies

Allan Ritchie

Chief Executive Officer

Experienced ASX/HKEx Energy and Resources CEO/ED/MD, 30+yr Investment Banking career

ADD Share Price



Investment Highlights

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Critical minerals exposure

Nickel is a key component of lithium-ion batteries



Demonstrated nickel rich region

Proximal to high-grade nickel sulphide resources in the East African Nickel Belt



Demonstrated Nickel Results

Successful intercepts in first 5 DD holes and delivering Massive Nickel Sulphide



Uranium Bonus

Large project area in South Australia with identified uranium mineralisation



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