



ODESSA

MINERALS

Looking for Big Lithium in the Gascoyne



Spotlight 2023 Investor Conference - 25 October 2023



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This presentation contains information extracted from ASX market announcements during the period December 2021 to August 2023, reported in accordance with the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (**2012 JORC Code**) and available for viewing at <https://odessaminerals.com.au/>. Odessa confirms that it is not aware of any new information or data that materially affects the information included in any original ASX market announcements.

The release of this document on ASX has been authorised by the Board of Odessa Minerals Limited.



Why Consider Odessa?

Extraordinary Gascoyne Lithium Potential:

- Massive +3,000 km² land position
- Over 56,000 metres of “newly” mapped pegmatites at Yinnetharra
- Initial assays from Robinson Bore pegmatites show excellent fractionation (ASX news release 16 October 2023)

Odessa's Market Cap only \$7m and is well funded

Neighbours having big Lithium success:

- *Minerals 260 - \$97m market cap* (as at 17 October 2023)
- *Delta Lithium - \$375m*
- *Reach Resources - \$35m*
- *Voltaic Strategic Resources - \$13m*



Corporate Overview

CAPITAL STRUCTURE

ODE
ASX Code

~\$4.06M
Cash *(at 30 September 2023)*

~\$7.3M
Market Cap *(at \$0.007 per share)*

1,043m
Shares on issue

118M
Listed Options - ODEO

226M
Unlisted Options

Top 5 Shareholders

- CRC Minerals 3.3%
- Geobase Australia 3.1%
- Golden Triangle 2.3%
- Leigh Sinclair 2.2%
- Milford Resources 2.1%

Top 20 hold **30.3%**
(as at 23 October 2023)



Odessa's Tenements

Lyndon Project

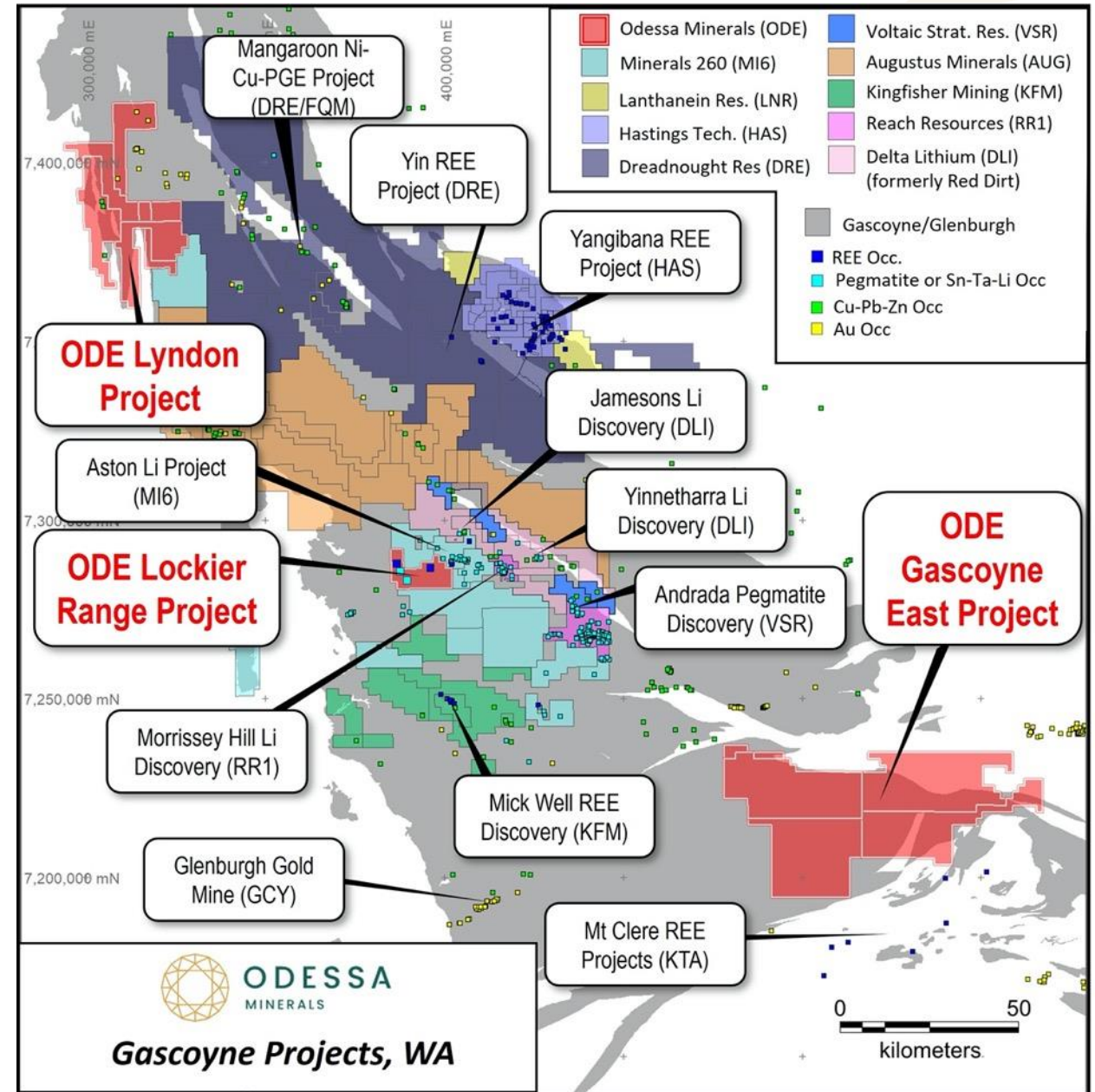
- Targeting Lithium, Ni/Cu and REE

Yinnetharra Lockier Range

- Lithium and REE

Gascoyne East

- Lithium, Ni/Cu, REE, gold, graphite



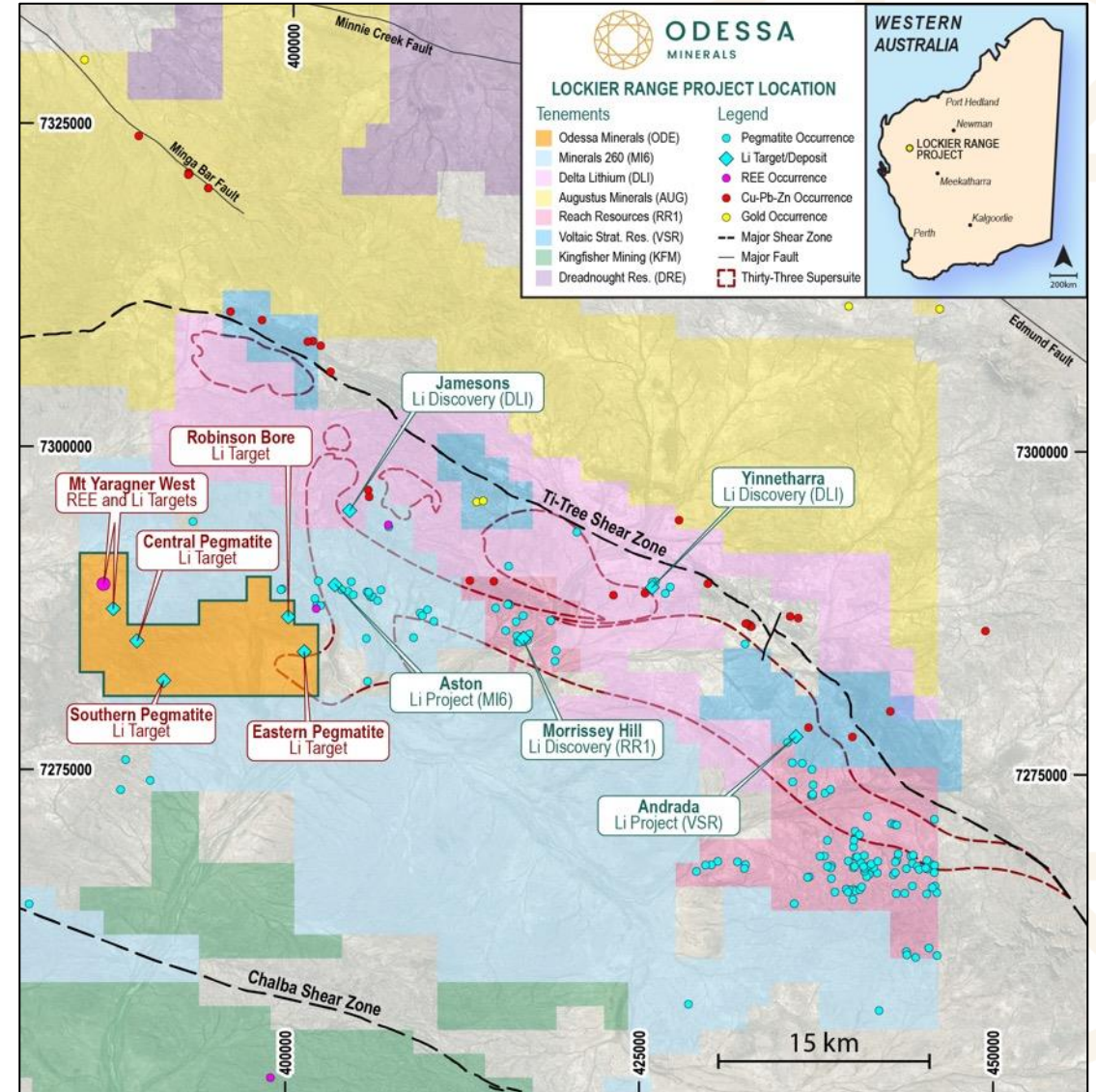


Gascoyne Lithium Success

The NEW Lithium province in WA (2023)

Odessa's Yinnetharra Lockier Range Lithium and Rare Earth Element ("REE") Project covers a large area of 125km² within its substantial Gascoyne tenement package of +3,000km²; and is ideally located:

- Adjoining Minerals 260's "Aston" Lithium project with extensive anomalies
- ~8.5km southwest of Delta Lithium's "Jameson" lithium pegmatite discovery
- ~15km west of Reach Resources' "Morrissey Hill" lithium pegmatite discovery
- ~25km west of Delta Lithium's "Yinnetharra" lithium pegmatite discovery
- ~40km west of Voltaic Strategic Resources' pegmatite discovery
- ~60-70km south of Hastings Technologies' and Dreadnought Resources' rare earth projects



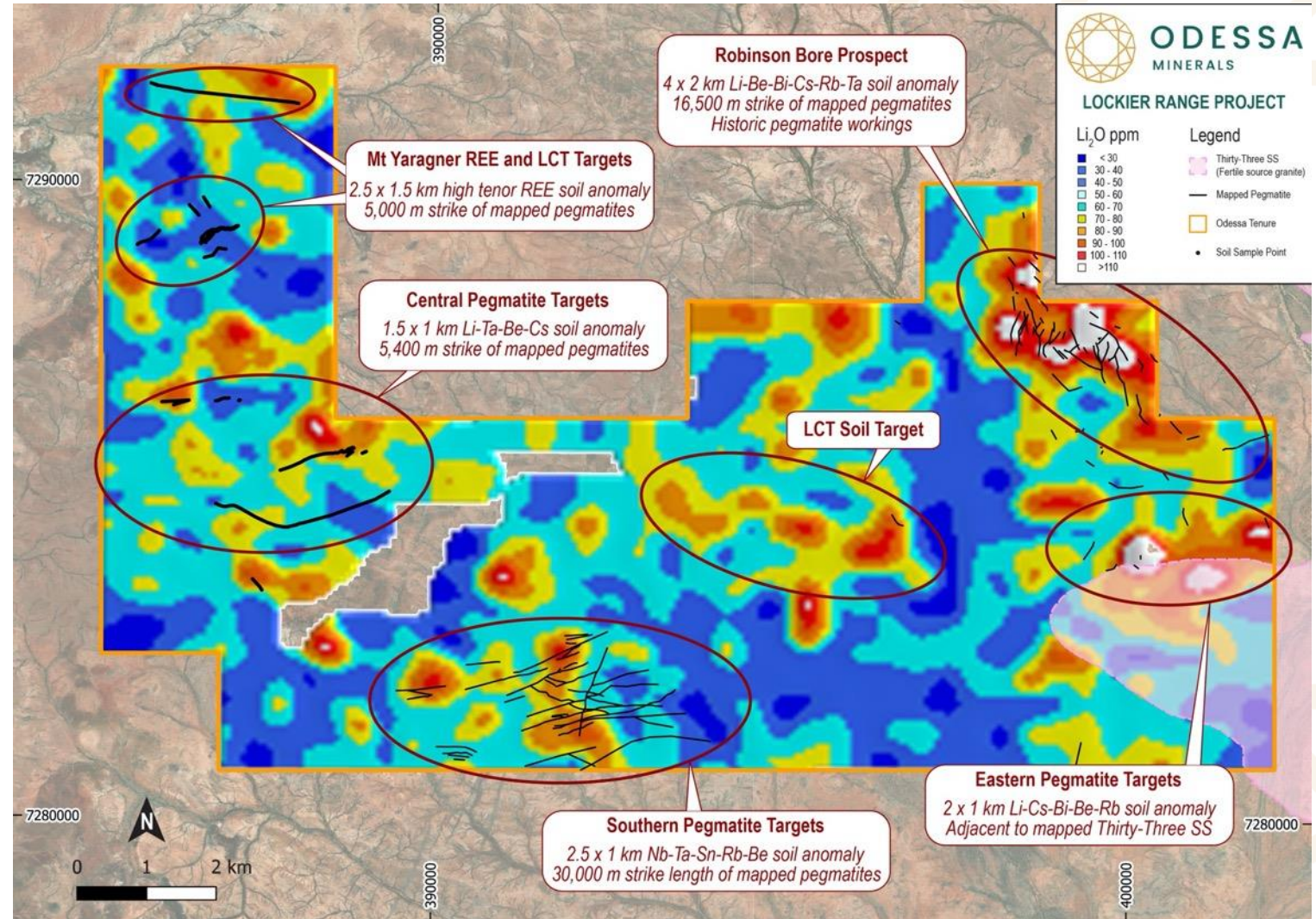


Yinnetharra Lockier Range Lithium Potential

Significant Pegmatites Discovered

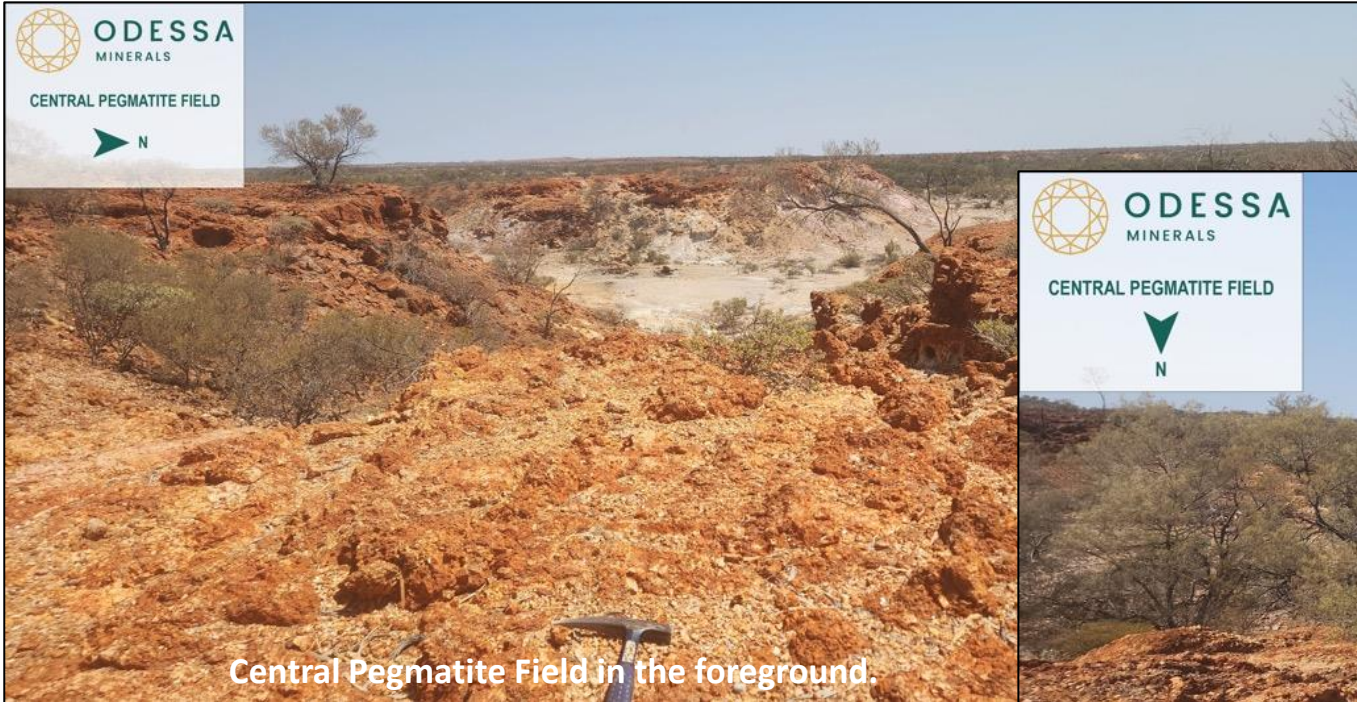
- +56,000m of mapped pegmatites
- Principal pegmatite target areas within Lockier Range showing the extent of mapped pegmatites underlain by gridded soil results coded by Li₂O ppm
- +16,500m at Robinson Bore Peg Field
- +30,000m at Southern Peg Field
- +5,000m at Central Peg Field
- +5,000m at Mt Yaragner Pegmatites

(Refer Odessa's company announcements dated 14, 27 July & 21 August & 7 September & 16 October 2023)





Yinnetharra Lockier Range Pegmatites



Central Pegmatite Field in the foreground.

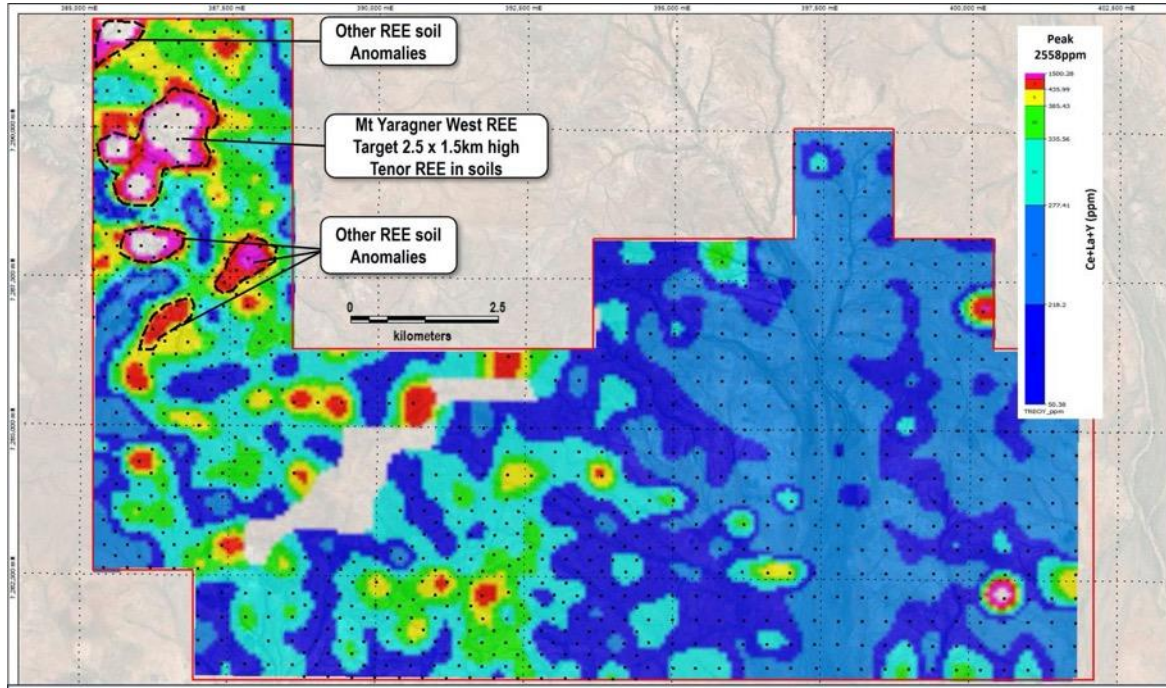


35m-wide pegmatite trending southwest within the Central Pegmatite Field.

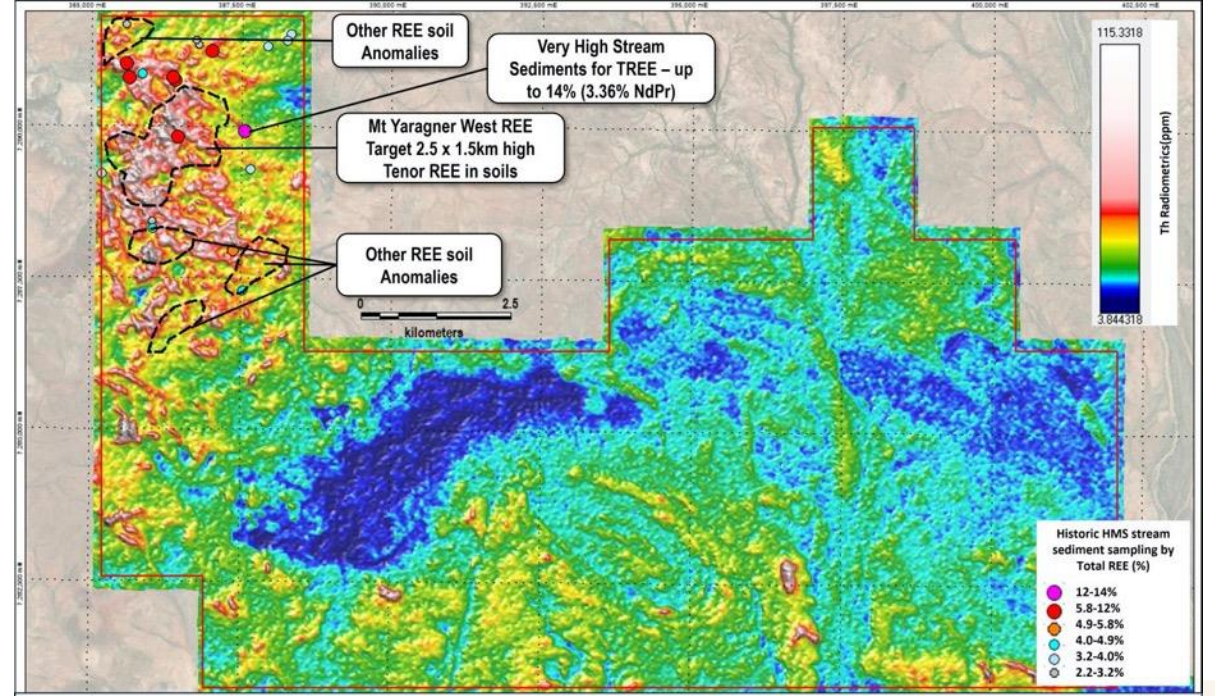


Lockier Range REE Targets

- High Grade REE's already identified



Soil sampling grid by TREE (Ce+La+Y). Black dots = sample points. MGA94 Zone 50

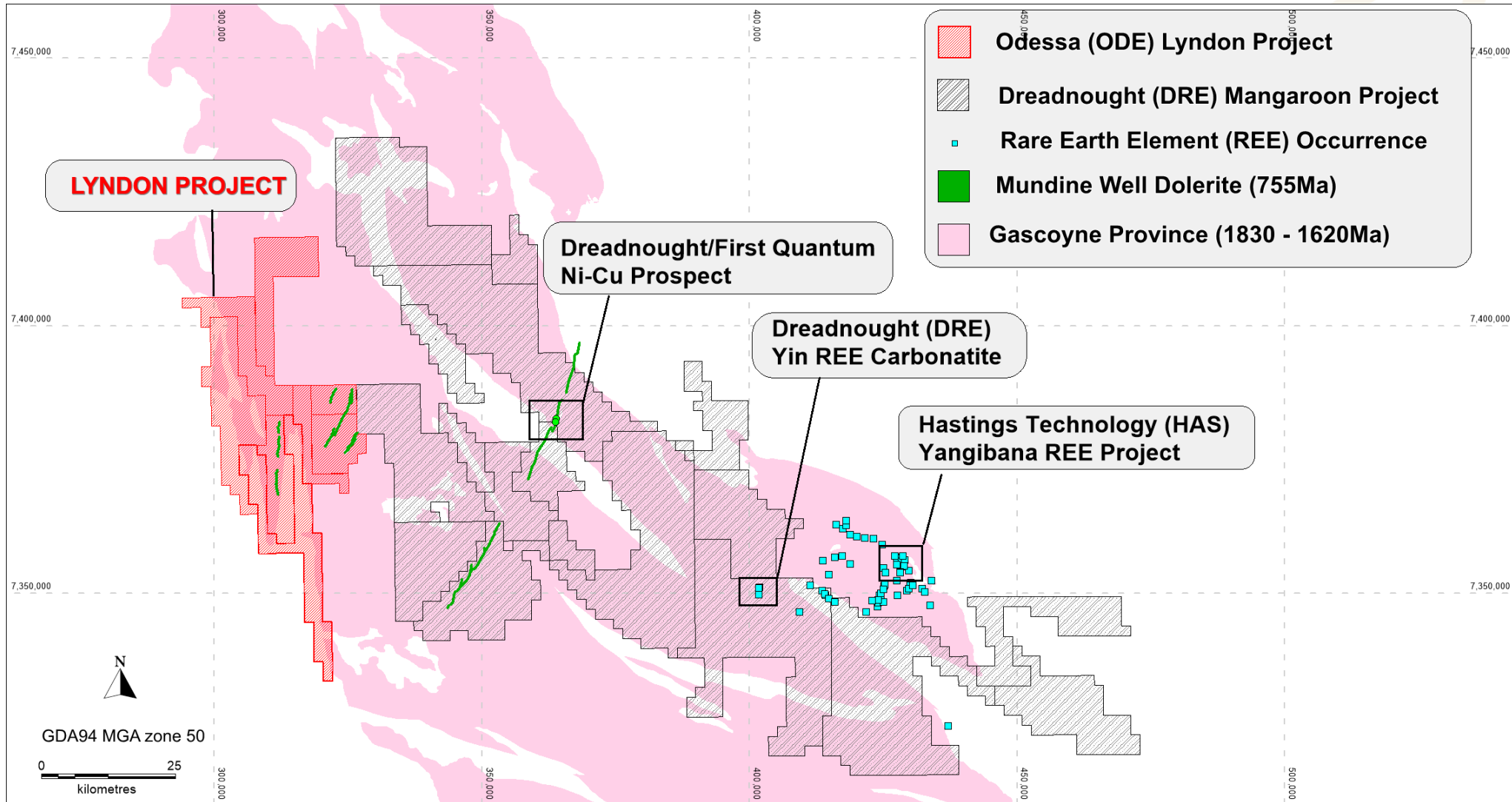


Thorium radiometric with historic HMC stream sediment sampling results (total REE)

Source: ODE announcement dated 20 July 2023



Lyndon Project (Li, REE, Ni-Cu)

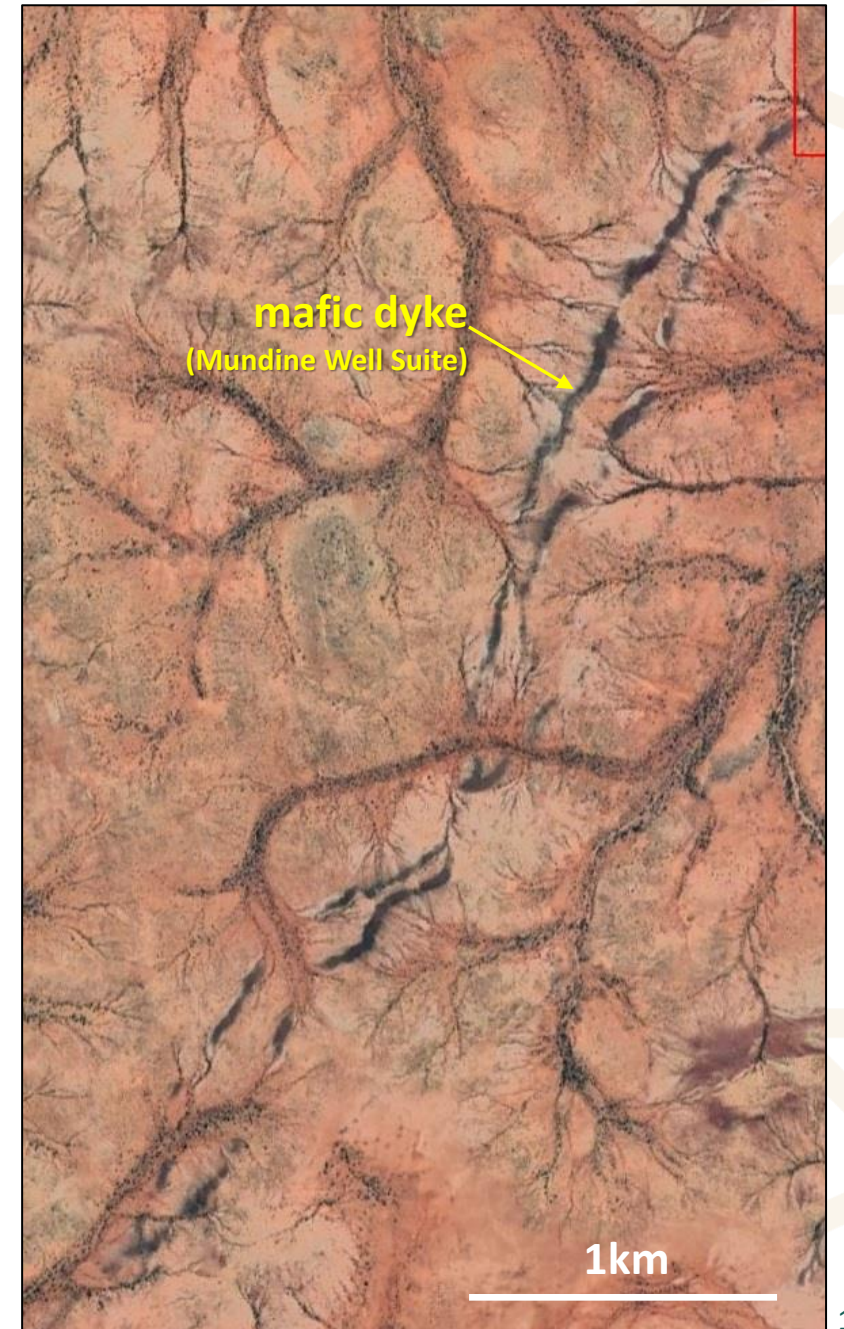




Lyndon Ni-Cu Targets

**First reconnaissance sampling
scheduled 5 – 6 Nov.**

- *Over 32-strike-km of well-exposed Mundine Well mafic dykes located within the Lyndon project area*
- *This is the same mafic unit (Suite) that hosts the Dreadnought/First Quantum Bookathanna North magmatic Ni-Cu sulphide mineralisation, located 36km to the east*
- *Lyndon mafic dykes never before assessed for Ni-Cu potential*
- *Reconnaissance scheduled to search for sulphide gossans along the margins of the dykes next month*



Lyndon Lithium and Rare Earths

Initial fieldwork has commenced...

- *New, 780km², high-resolution radiometric/radiometric survey defines lithium and REE targets*
- *Up to 313 ppm Li₂O in silt samples collected from streams draining large area of outcropping pegmatites*
- *Highly fractionated pegmatites with favourable K/Rb ratio (<50) in initial rock-chip (n=20) samples*
- *Anomalous beryllium (263 ppm BeO) pathfinder geochemistry in more fractionated pegmatites*
- *Low-amplitude aeromagnetic anomalies to be evaluated as potential, pipe-like REE carbonatite intrusions.*

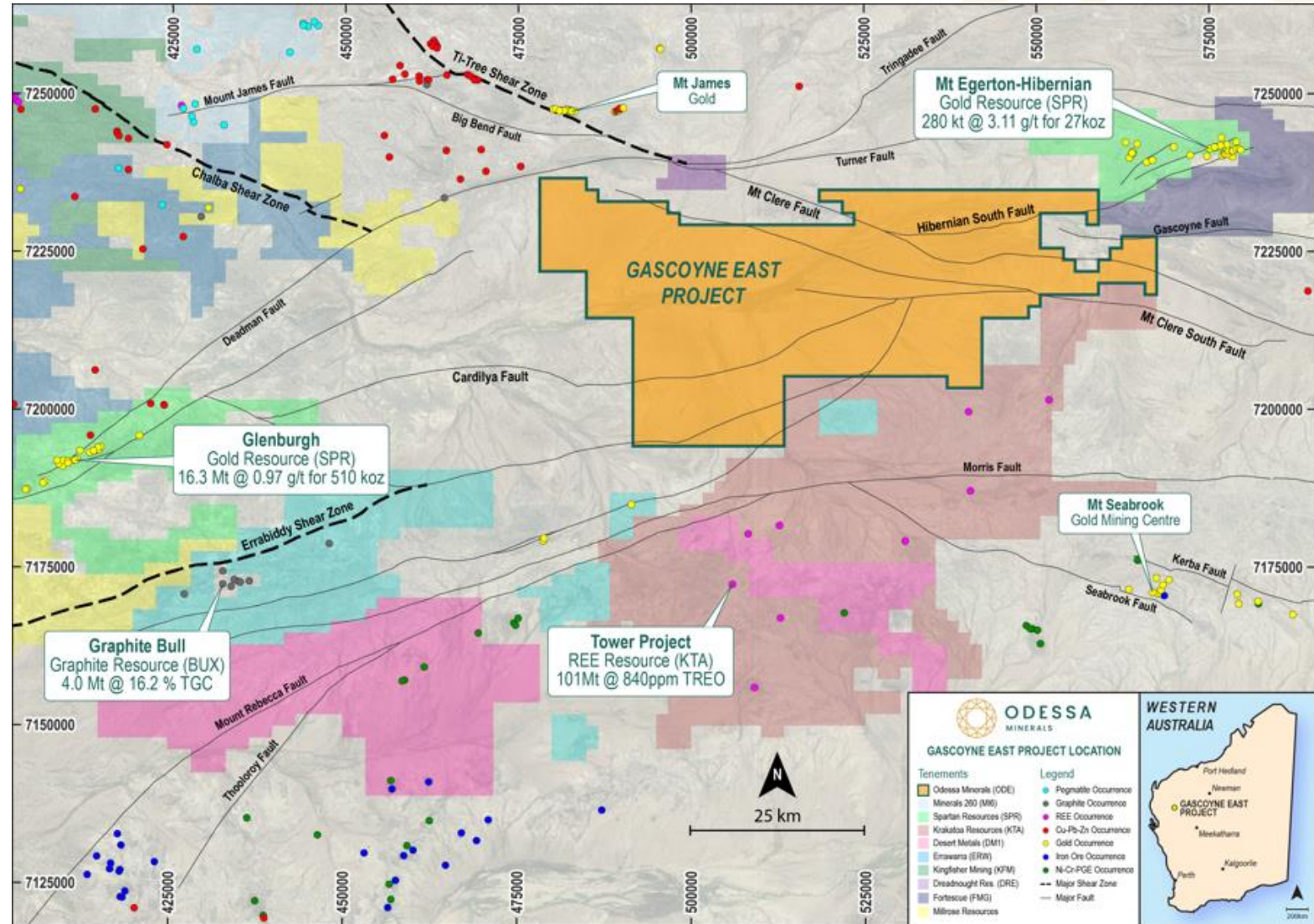




Gascoyne East Project – Elephant Country

Massive Discovery Potential

- 2,100km² granted tenement package – one of the largest in Gascoyne
- Almost zero past exploration
- The project is prospective for:
 - LCT-pegmatites
 - REEs
 - Gold
 - Copper
 - Graphite
- Due to >90% of the Gascoyne East tenure being concealed under transported cover, minimal exploration work has been conducted across the Project area to date.





Board and Senior Management



Zane Lewis BEcons FGIA (Non-Exec Chairman)

Mr Lewis is a principal and joint founder of corporate advisory firm SmallCap Corporate which specialises in corporate advice and compliance administration to ASX listed companies. He provides the board with a wealth of knowledge obtained from his diverse financial and corporate experience in previous ASX company appointments. Mr Lewis is a Fellow of the Governance Institute of Australia and is a Non-Executive Director of Kairos Minerals Limited (ASX:KAI) and Lion Energy Limited (ASX:LIO) .



David Lenigas BAppSc. (Mining Engineering) (Executive Director)

Mr Lenigas is a mining engineer with a Western Australian First Class Mine Managers Certificate. He has extensive international experience corporate experience at Chairman and Chief Executive Officer level on many of the world's leading stock exchanges overseeing multiple business sectors. Mr Lenigas is Executive Chairman of Riversgold Limited (ASX:RGL), and Non-Executive chairman of Rincon Resources Limited (ASX:RCR)



Lisa Wells BAppSc. (Geology) (Non-Executive Director)

Ms Wells is a geologist and business entrepreneur with over 26 years' experience in the resources sector. Ms Wells' experience includes diamond exploration on the Company's projects in the central Kimberley region, bulk commodities, gold and base metals. Ms Wells is currently a director of MLM Drilling Pty Ltd and a no-executive director of Territory Minerals.



Dr Darren Holden BSc(Hons). (Geology) PhD (History) - Advisor

Dr Darren Holden is a geologist with 28 years industry experience in mineral exploration and exploration technologies. He specialises in regional to local scale targeting using the integration of geology, geophysics and geochemistry. Dr Holden is a director Augustus Minerals Ltd (ASX:AUG) and chair of OD6 Metals Ltd (ASX:OD6) as well as several private companies. Dr Holden holds a BSc (Hons) First Class (Geology) from The University of Western Australia and a PhD (History) from The University of Notre Dame Australia. Dr Holden is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM) and a member of Geological Society of Australia.



Odessa Share Trading

ODESSA MINERALS LIMITED ODE

LAST PRICE / TODAY'S CHANGE ⓘ

\$0.008 ▼ -\$0.001 (-11.11%)

VOLUME ⓘ

6,764,847

BID / OFFER RANGE ⓘ

\$0.008 - \$0.009

MARKET CAPITALISATION ⓘ

\$9.38M

Industry Group: Materials

Listed on 03 July 1986

Prices delayed by at least 20 minutes | Currently trading

ODE Overview

REFRESH DATA



Source: ASX website 17/10/23

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