

8 May 2024

RIU Sydney Resources Round-up - Presentation

Lithium exploration and project development company Critical Resources Limited **ASX:CRR** ("Critical Resources" or "the Company") advises of its participation at the RIU Sydney Resources Round-up conference being held this week in Sydney, Australia.

Attached is the presentation that Mr Alex Cheeseman will be presenting at the conference later today.

This announcement has been approved for release by the Board of Directors.

-ends-

For further information please contact

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ABOUT CRITICAL RESOURCES LIMITED Critical Resources is focused on the exploration, development and delivery of the critical metals required for a decarbonized future, underpinned by a portfolio of lithium projects in Ontario, Canada which are ideally positioned to participate in the rapidly growing North American battery materials supply chain.

The Company's principal focus is on its flagship Mavis Lake Lithium Project in Ontario, Canada, where it has completed over 45,000m of drilling and defined a maiden Inferred Mineral Resource of 8Mt grading 1.07% Li₂O. Recent exploration success has demonstrated substantial potential to expand this resource and make new discoveries in the surrounding area. Critical is progressing a dual-track strategy at Mavis Lake of targeting resource growth in parallel with multiple permitting and project development workstreams.

FORWARD LOOKING STATEMENTS This announcement may contain certain forward-looking statements and projections. Such forward looking statements/projections are estimates for discussion purposes only and should not be relied upon. Forward looking statements/projections are inherently uncertain and may therefore differ materially from results ultimately achieved. Critical Resources Limited does not make any representations and provides no warranties concerning the accuracy of the projections and disclaims any obligation to update or revise any forward-looking statements/projects based on new information, future events or otherwise except to the extent required by applicable laws. While the information contained in this report has been prepared in good faith, neither Critical Resources Limited or any of its directors, officers, agents, employees or advisors give any representation or warranty, express or implied, as to the fairness, accuracy, completeness or correctness of the information, opinions and conclusions contained in this announcement.



**Critical
Resources**
Limited

ASX : CRR

RIU Sydney Resources Round-up

Booth 24

8 May 2024



Strategic Highlights



Critical Resources Limited

The Right Place

Exceptional location, high-growth market and infrastructure rich

The Right Project

Resource-backed with growth potential

The Right Pathway

Clear pathway to advance the Project and deliver lithium products to market

- Ontario provides **supportive** Provincial and Federal **Governments** – plus potential access to US Government initiatives
- **Unprecedented investment** into North American electric vehicle supply chains
- Project **location and existing infrastructure** (road , rail and port) provides **significant** operational and **financial advantages**
- Flagship Mavis Lake Lithium Project - Maiden Mineral Resource Estimate (MRE) **8Mt @ 1.07% Li₂O**, drilling subsequent to MRE release has included world-class intercepts up to **74.4m @ 1.18% Li₂O***
- Potential for **further discoveries**, multiple mapped spodumene bearing pegmatites yet to be drill tested
- Met testwork delivered **high recoveries** (up to 87%) with **excellent** concentrate **grades** (5.9-6.4% Li₂O)*
- Ore sorting trials delivered outstanding (98%) waste rock separation
- **Focussed project development** activity being conducted in parallel with continued resource growth and permitting
- Development Team **leveraging experience gained** from previous hard rock lithium projects
- Economic Assessment being undertaken, Project economics to drive **value creation**
- Ownership = 100%, Offtake = **100% Uncommitted**

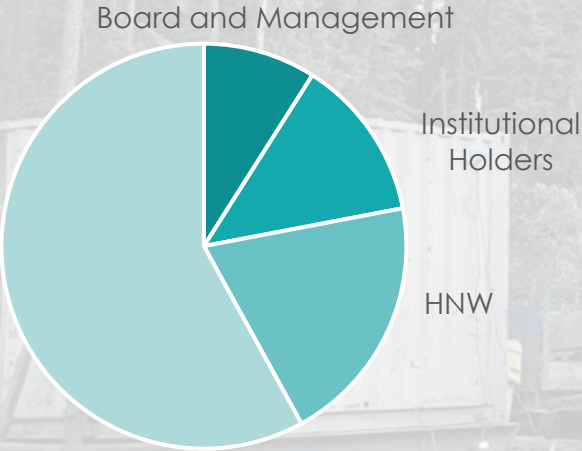
* Refer to Appendix

Corporate Snapshot

Capital Structure

Share Price (30 April 2024)	AUD\$0.013
Shares	1.78b
Market Cap. (undiluted)	~AUD23m
Cash (31 March 2024)	AUD\$3.4M
Debt	\$0
Options (47m - \$0.04 strike – expiry 3 Dec 24)	AUD\$1.88m

Share Register



Board of Directors



Critical Resources Limited



Alex Cheeseman Managing Director

20+ years leadership and management across projects and operations. 7 years dedicated to the lithium industry(former GM Altura Mining).

Extensive experience building and managing high-performance teams operating in multiple jurisdictions.



Robert Martin Non-Executive Chairman

A successful businessman and accomplished company Director with over 25 years' experience across mining and mining services.

Significant experience in capital markets and corporate strategy. Chairman of ASX:BM8, ASX:EQN and ASX:PLN, NED of ASX:PKD and TSX:VCT.



John Markovic Non-Executive Director

Highly successful businessman, with proven history in value creation.

Strategic expertise in marketing, financial planning and risk management.

Track record in achieving high-growth for shareholders.



Nigel Broomham Non-Executive Director

A professional geologist with 10+ years dedicated in exploration for battery raw materials.

Former Head of Geology for Pilbara Minerals (ASX:PLS). Current CEO Battery Age Minerals (ASX:BM8) and NED Pioneer Lithium (ASX:PLN).



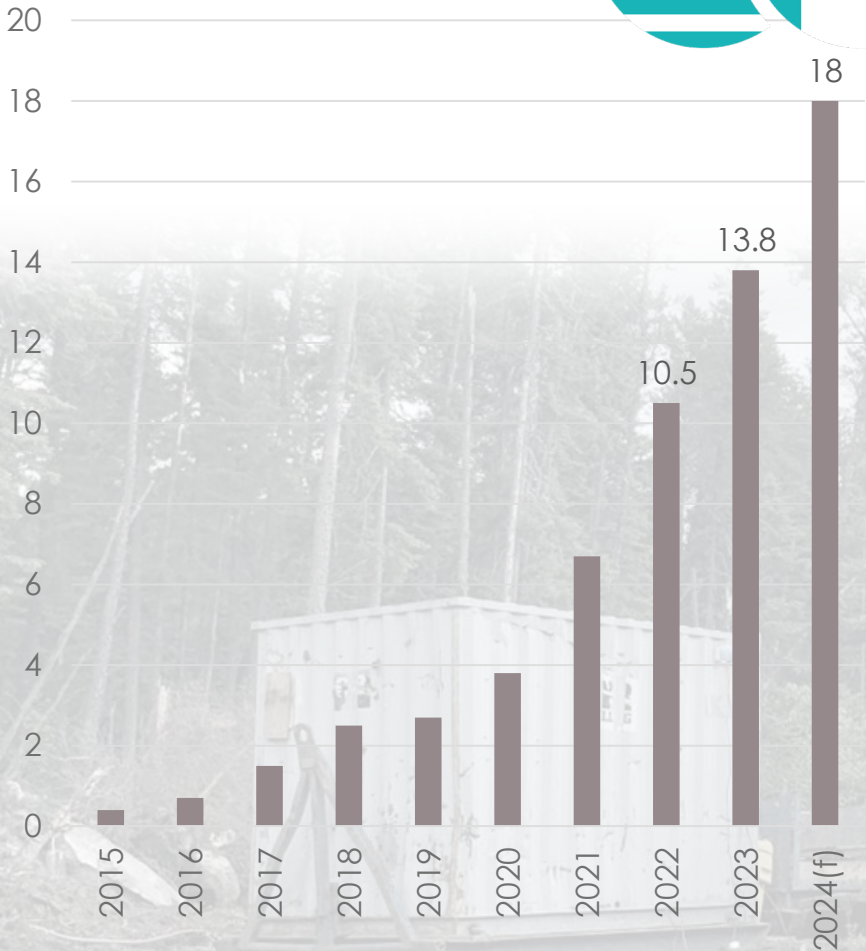
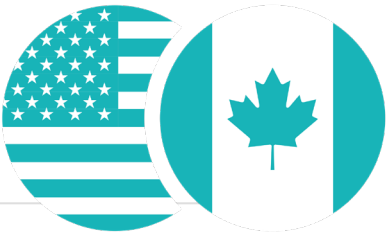
Anthony Tse Strategic Advisor

Early pioneer and veteran of the lithium industry.

Former CEO of Galaxy/Alkem – now the 5th largest lithium producer.

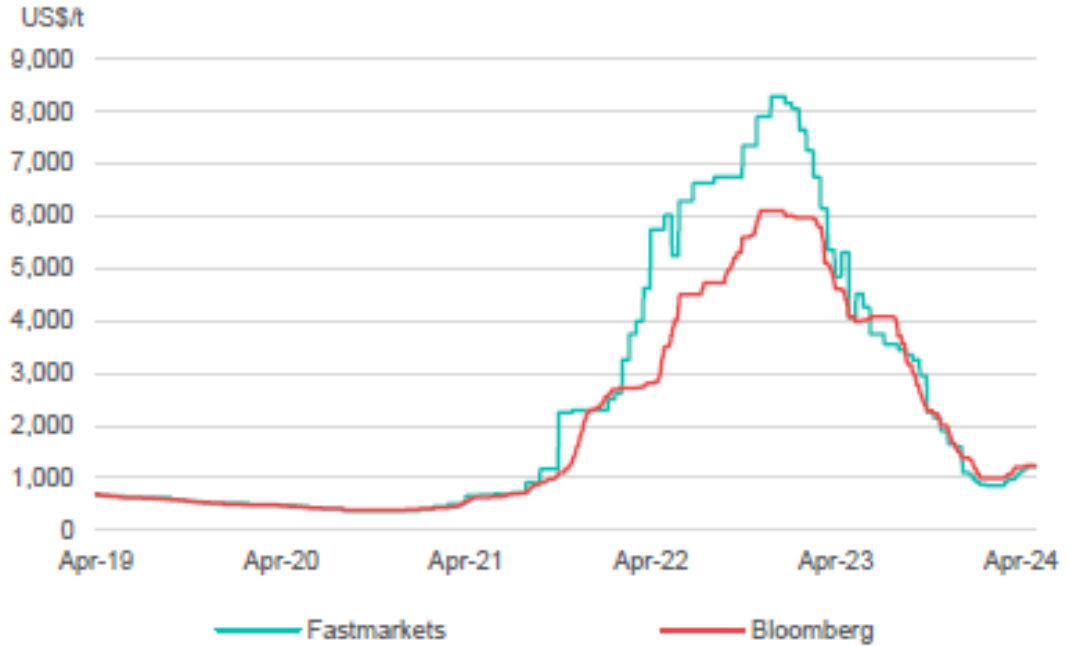
Extensive strategy, management and investment experience across the battery value chain globally.

Global EV sales
all vehicle classes



Source: RhoMotion Jan 2024

Spodumene (5-6% Li₂O) CIF China





Grow to Full Potential

Year on year
Resource growth
through exploration
success and organic
Resource expansion

Advance Towards Production

Project development
through permitting,
technical and
economic studies with
ongoing Community
engagement

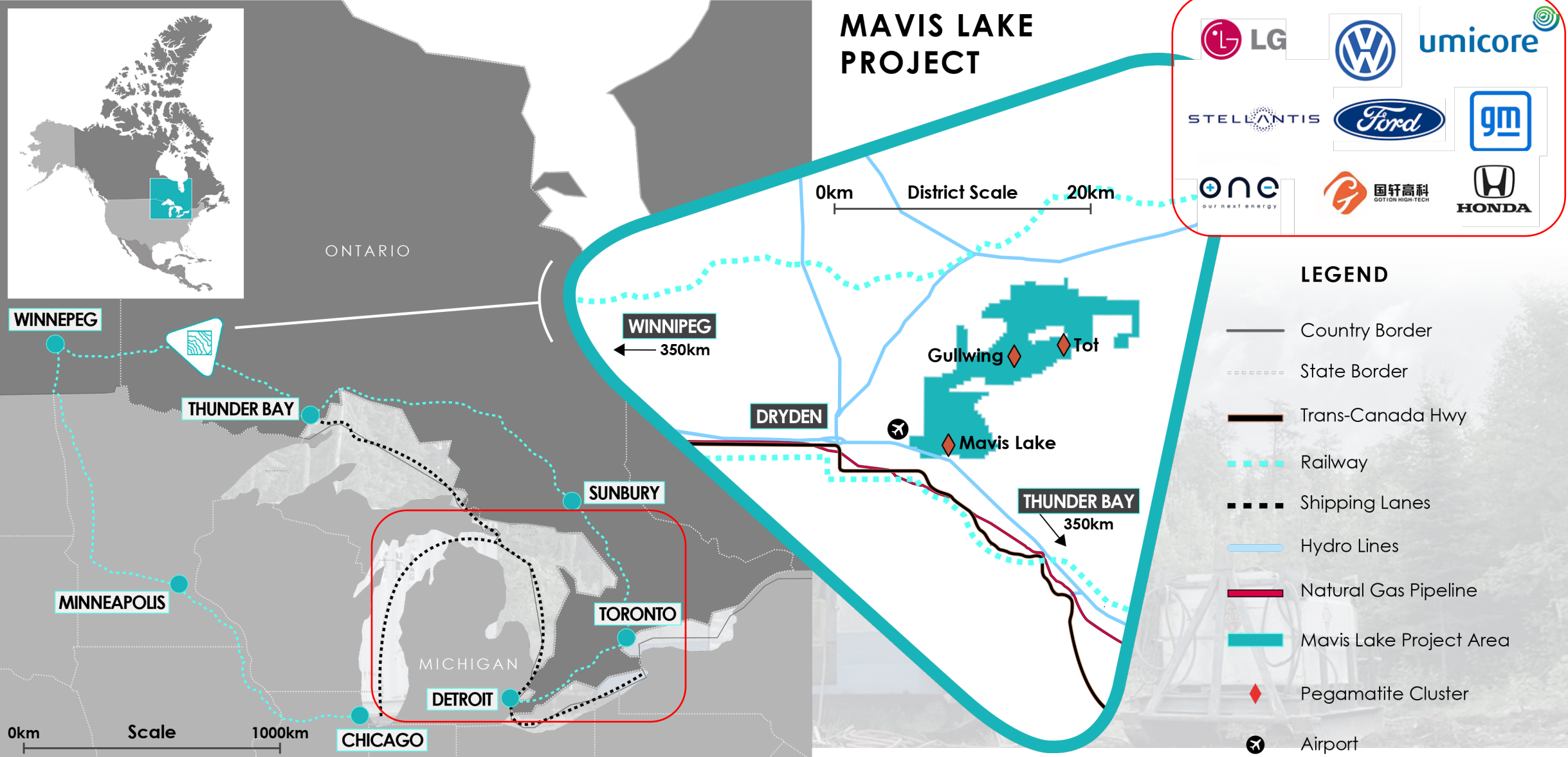
Secure Strategic Partners

Leverage early mover
advantage and
management
credentials to secure
value accretive
strategic partnerships



Mavis Lake Project

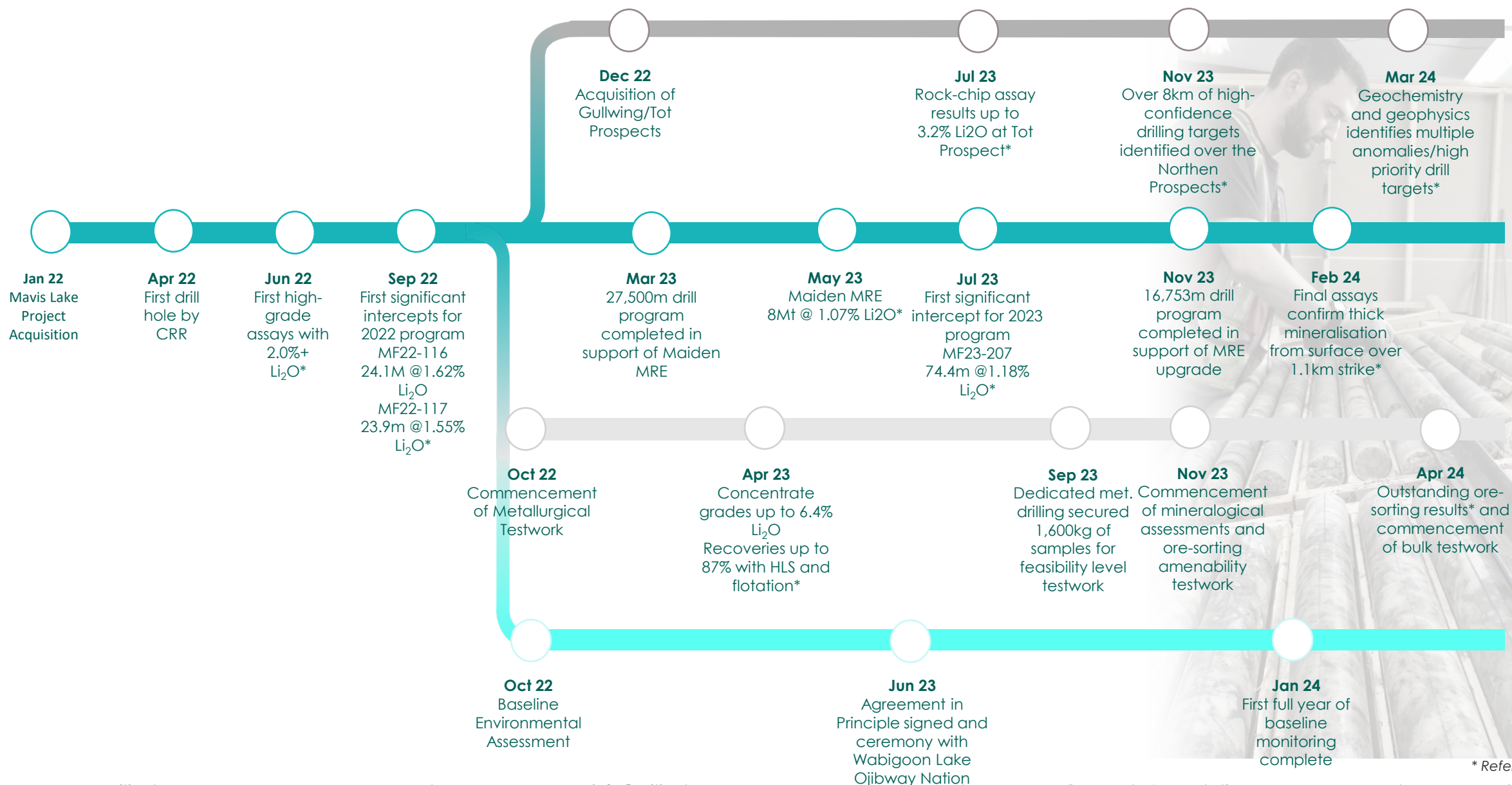
Project Location



Building Momentum Since Acquisition



Critical Resources Limited



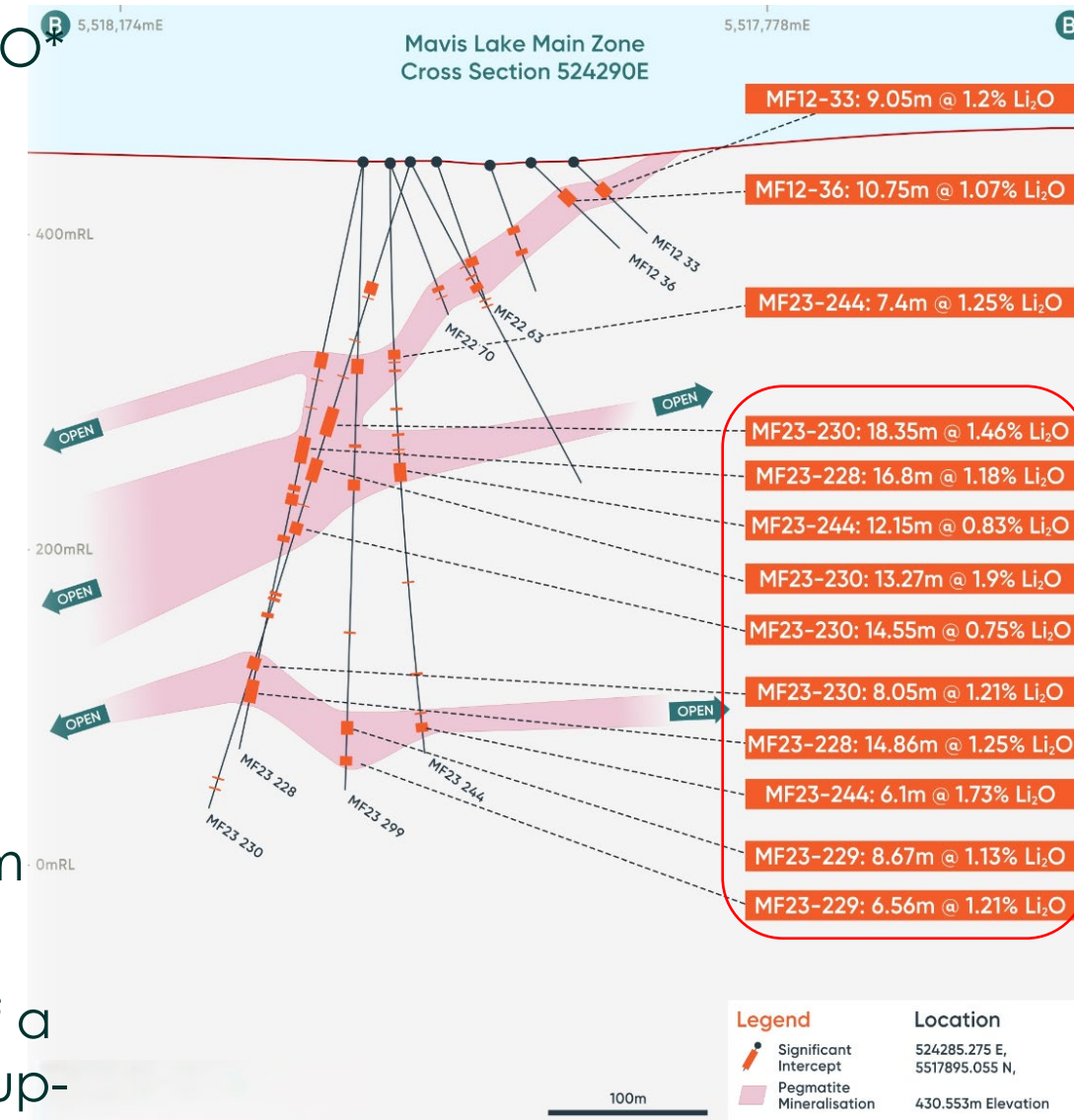
* Refer to Appendix

Maiden Resource with Growth Potential



Critical Resources Limited

- Maiden MRE released in May 2023 - 8Mt @ 1.07% Li_2O *
- Maiden MRE included drilling results up to 30 March 2023, a further 16,753m was drilled in CY 2023
- June-November 2023 saw outstanding intercepts* including:
 - Drill Hole MF23-207 with 74.4m @ 1.18% Li_2O
 - Drill Hole MF23-213 with 50.2m @ 1.28% Li_2O
 - Drill Hole MF23-225 with 37.75m @ 1.12% Li_2O
- Updated resource model being developed, with expectation of first MRE upgrade in H2 2024
- Thick, high-grade lithium mineralisation, starting from surface, over a 1.1km strike
- Drilling late in 2023 also confirmed the discovery* of a new/lower mineralised stack, which remains open up-dip and down-dip

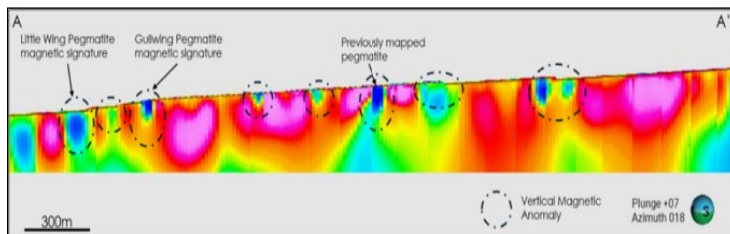


Unlocking District Scale

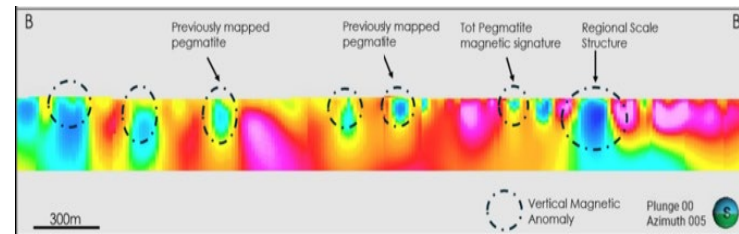


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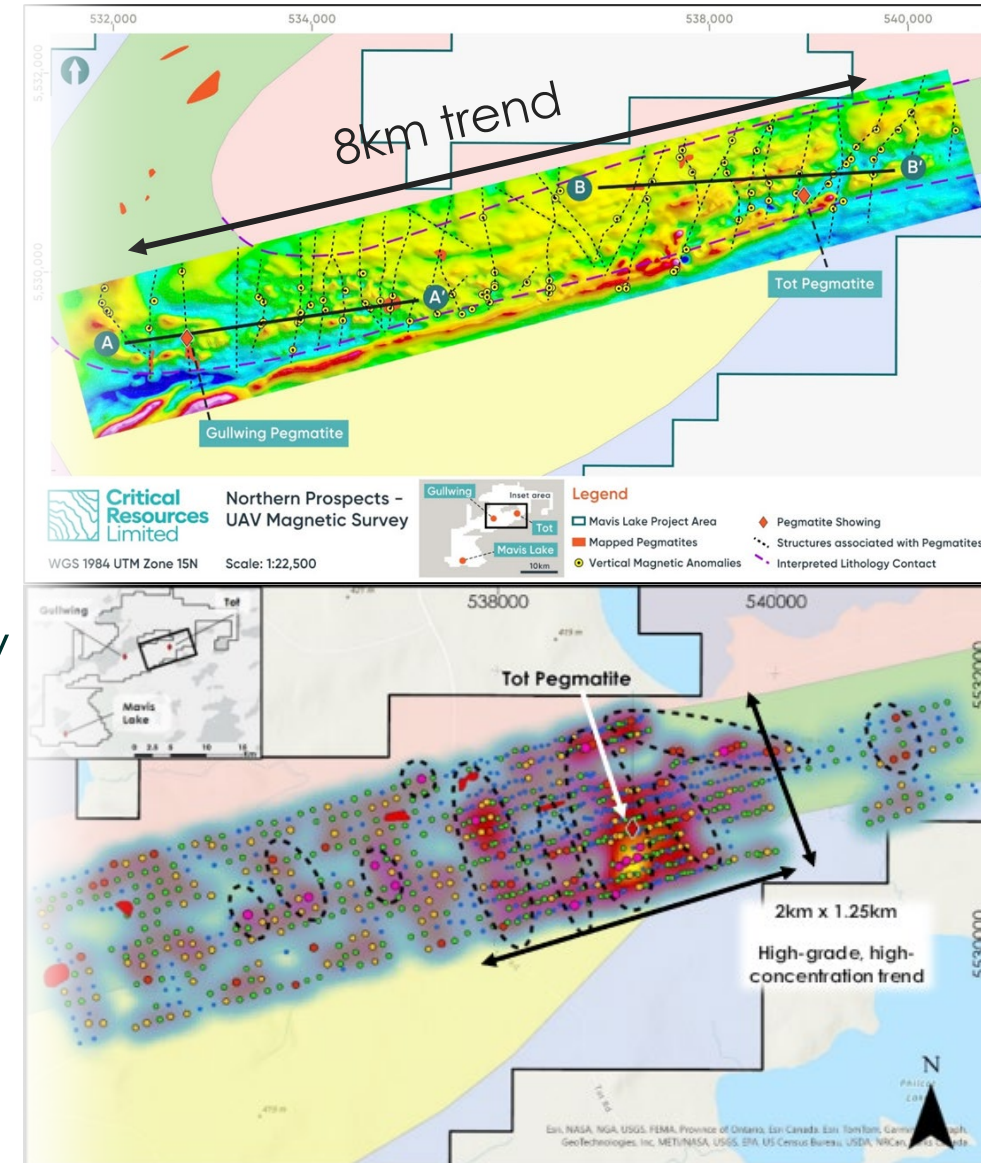
- Approximately 8km of strike with high-grade assays* from rock chips and channel sampling including:
 - Sample 159082 Gullwing rock chip @ 6.78% Li_2O
 - Sample 157856 Tot 1.3m channel sample @ 2.88% Li_2O
 - Sample 347562 Tot rock chip @ 3.21% Li_2O
- Soil sampling identified 1 x 1.25km trend extending from the Tot pegmatite*
- Low altitude, high-resolution aeromag and LIDAR survey identified multiple magnetic signatures consistent with previously mapped spodumene bearing pegmatites*
- Field work commencing in May to ground truth recent results



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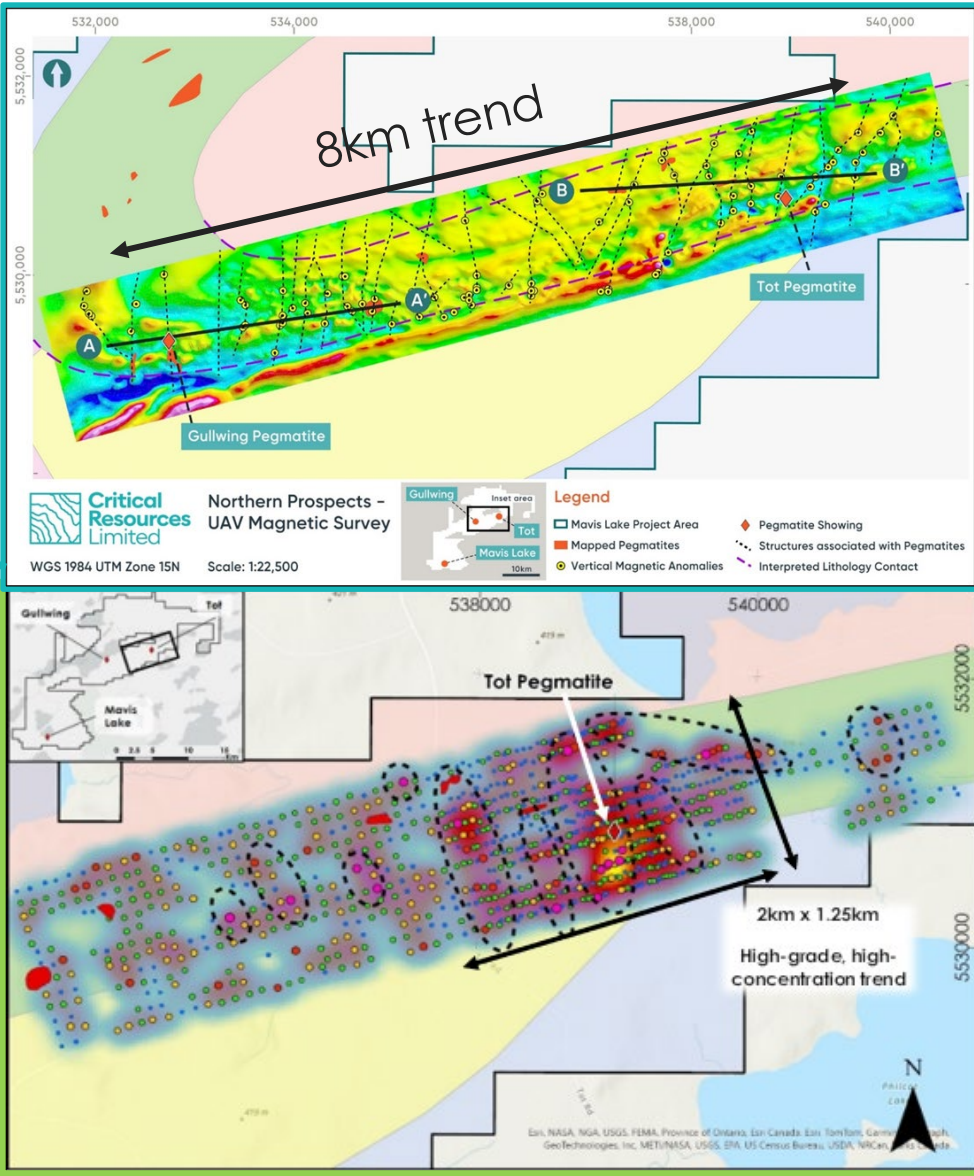
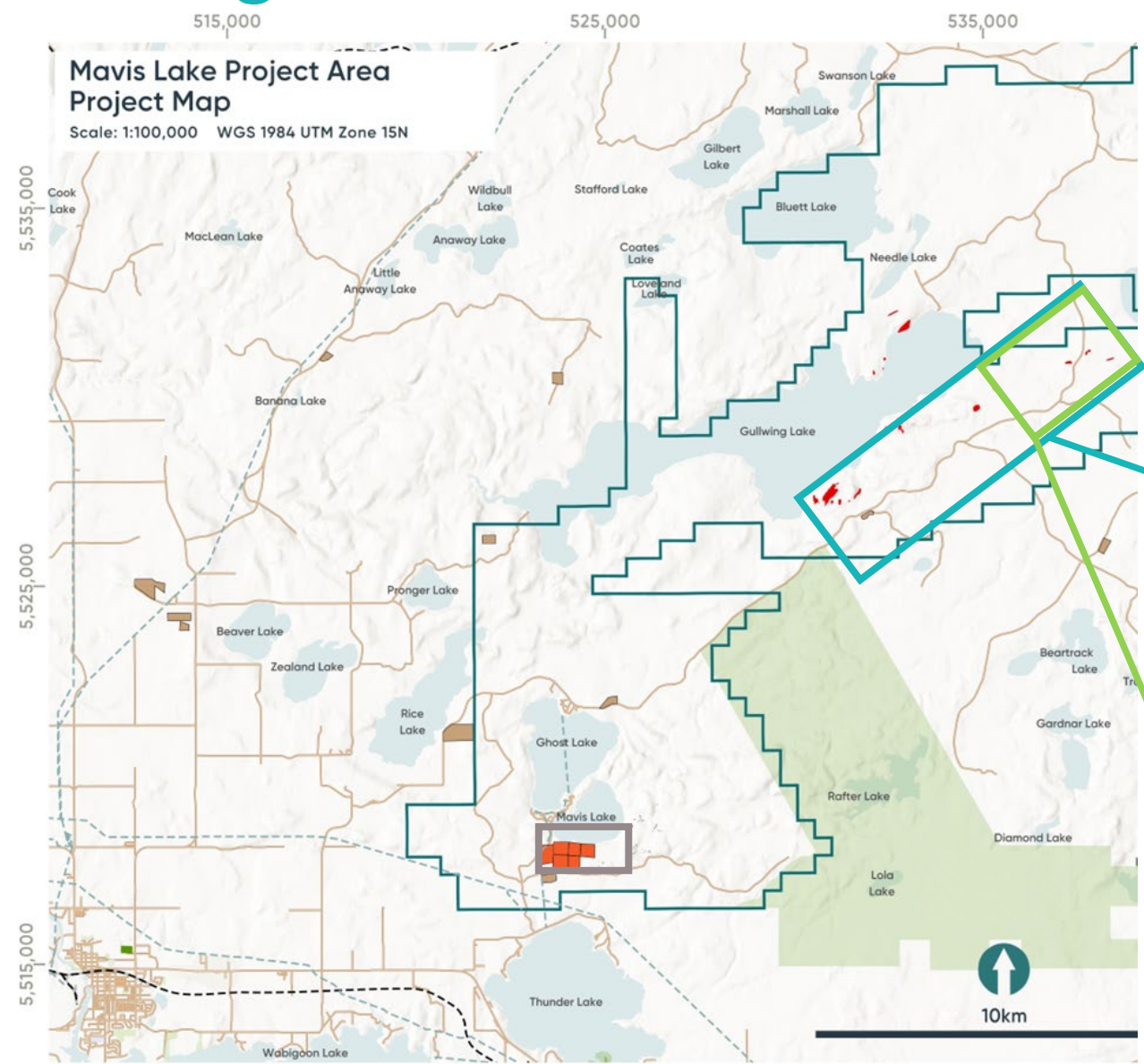


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Corporate Presentation

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Unlocking District Scale

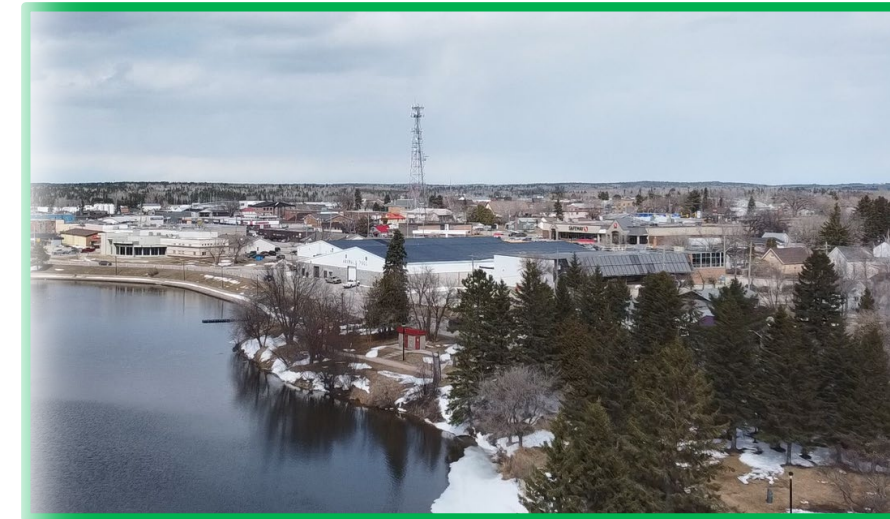


World Class Infrastructure



- All field activities based out of Dryden – a low-cost, well serviced base for future growth
- Road and rail options to a number of deepwater ports, all currently supporting dry-bulk cargo export
- Growing services and opportunities in Dryden – potential for contracted services to provide multi-user camp, laboratory and warehouse solutions
- Direct access to infrastructure and utilities – significant CAPEX savings

Key Infrastructure	Distance to ML Resource
Trans-Canada Highway	4.5 km
230Kv Power Lines (Hydro)	1.5 km
Dryden City Centre	14 km
Natural Gas Pipeline	5.7 km
Public Road	588 m
Airport	6 km
Canadian Pacific Railway	5.5 km
Canadian National Railway	21.2 km



Detailed Flowsheet Development



Critical Resources Limited

- Heavy Liquid Separation (HLS) delivered spodumene concentrate up to 6.4% Li_2O with very low Fe_2O_3 .
- Optimization work (HLS and flotation) delivered recoveries up to 87%*
- QEMSCAN has identified predominantly large spodumene crystals and confirms spodumene is the predominant lithium mineral
- Ore sorting amenability trials completed*:
 - 150% Li_2O increase for UV sorting
 - 98% waste rock rejection from XRT sorting
- Bulk ore sorting and DMS test work program commenced in April 2024 – results to underpin Scoping Study flowsheet design and economic parameters
- Hybrid DMS and flotation flowsheet anticipated – designing a staged project delivery approach to minimise upfront CAPEX requirement



* Refer to Appendix



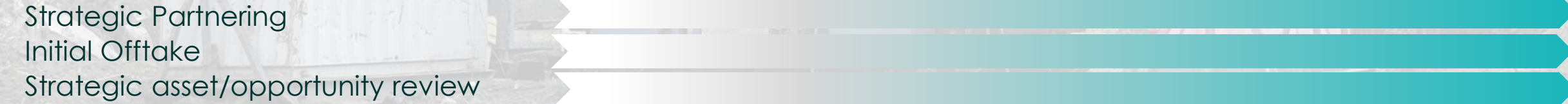
Exploration and Resource Growth



Project Advancement and Technical Development



Corporate





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Summary Information This document contains a summary of information about Critical Resources Limited ("Critical Resources" or "the Company") and its activities that is current as at the date of this document unless otherwise stated. The information in this document is general in nature and does not contain all the information which a prospective investor may require in evaluating a possible investment in Critical Resources or that would be required in a prospectus or a product disclosure statement prepared in accordance with the Corporations Act 2001 or the securities laws of any other jurisdiction. The information in this document should be read in conjunction with the Company's other periodic and continuous disclosure announcements lodged with the ASX.

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Financial data All amounts are in Australian Dollars (AUD) unless otherwise indicated. A number of figures, amounts, percentages, estimates, calculations of values and fractions in this presentation are subject to the effect of rounding. Accordingly, the actual calculation of these figures may differ from the figures set out in this presentation.

JORC Code It is a requirement of the ASX Listing Rules that the reporting of exploration results, ore reserves and mineral resources in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code"). Investors outside Australia should note that while reporting in this document complies with the JORC Code, they may not comply with the relevant guidelines in other countries. Information contained in this document describing mineral deposits may not be comparable to similar information made public by companies subject to the reporting and disclosure requirements of Canadian or US securities laws.

Acceptance By attending a presentation or briefing, or accepting, accessing or reviewing this document you acknowledge, accept and agree to the matters set out above.

Authorisation this document has been authorised for release by the Company's Board of Directors.

Exploration and Metallurgy Disclosure



Critical Resources Limited

COMPLIANCE STATEMENT

This document contains information relating to Exploration Results in respect of the Mavis Lake project extracted from ASX market announcements reported previously and published on the ASX platform on those dates noted below.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed.

- Drill Hole MF12-33 refer to ASX announcement dated 25 October 2021
- Drill Hole MF12-36 refer to ASX announcement dated 25 October 2021
- Drill Hole MF17-49 refer to ASX announcement date 25 October 2021
- Drill Hole MF18-53 refer to ASX announcement date 25 October 2021
- Drill Hole MF22-64 refer to ASX announcement dated 16 June 2022
- Drill Hole MF22-72 refer to ASX announcement dated 21 July 2022
- Drill Hole MF22-116 refer to ASX announcement dated 13 September 2022
- Drill Hole MF22 -117 refer to ASX announcement dated 13 September 2022
- Drill Hole MF22-121 refer to ASX announcement dated 24 October 2022
- Northern Prospects sample 159082 refer to ASX announcement dated 20 December 2022
- Northern Prospects sample 157856 refer to ASX announcement dated 20 December 2022
- Northern Prospects sample 347562 refer to ASX announcement dated 20 December 2022
- First Concentrate Produced form Mavis Lake dated 23 January 2023
- High grade low impurity Spodumene concentrate produced 9 February 2023
- Drill Hole MF22-177 refer to ASX announcement dated 27 March 2023
- Drill Hole MF22-178 refer to ASX announcement dated 27 March 2023
- Drill Hole MF23-190 refer to ASX announcement dated 27 March 2023
- Excellent Results from Metallurgical Test Work dated 3 April 2023
- Drill Hole MF23-191 refer to ASX announcement dated 27 June 2023
- Drill Hole MF23-197 refer to ASX announcement dated 27 June 2023
- Drill Hole MF23-207 refer to ASX announcement dated 24 July 2023
- Drill Hole MF23-210 refer to ASX announcement dated 21 August 2023
- Drill Hole MF23-211 refer to ASX announcement dated 21 August 2023
- Drill Hole MF23-213 refer to ASX announcement dated 19 October 2023
- Drill Hole MF23-214 refer to ASX announcement dated 19 September 2023
- Drill Hole MF23-217 refer to ASX Announcement dated 19 October 2023
- Drill Hole MF23-222 refer to ASX announcement dated 19 October 2023
- Drill Hole MF23-225 refer to ASX announcement dated 19 October 2023
- Drill Hole MF23-228 refer to ASX announcement dated 15 November 2023
- Drill Hole MF23-229 refer to ASX announcement dated 15 November 2023
- District-Scale Potential at Mavis Lake Northern Prospects with Multiple Drill Targets date 2 November 2023
- Drill Hole MF23-230 refer to ASX announcement dated 13 February 2024
- Drill Hole MF23-244 refer to ASX announcement dated 13 February 2024
- Outstanding Ore Sorting Testwork Results for Mavis Lake dated 2 May 2024

This document contains information relating to Exploration Results in respect of the Gullwing Tot (Northern Prospects) project extracted from ASX market announcements reported previously and published on the ASX platform on 20 December 2022, 29 December 2022, 17 July 2023, 18 March 2024 and 17 April 2024. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed.

All announcements are available for viewing at the Company's website www.criticalresources.com.au.



COMPLIANCE STATEMENT

This document contains information relating to the Mineral Resource estimate for the Mavis Lake Lithium Project is extracted from the Company’s ASX announcement dated 5 May 2023. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original announcement and that all material assumptions and technical parameters underpinning the Mineral Resource estimate continue to apply.

The Mavis Lake MRE includes all applicable drilling results up to and including 29 March 2023.

MRE has been reported at a cut-off grade of 0.3% Li₂O and open-pit mining scenario. Bulk Density of 2.8 has been used for mineralised pegmatite. Estimation has been completed using inverse distance weighting. Resource classification is according to the JORC Code Mineral Resource categories

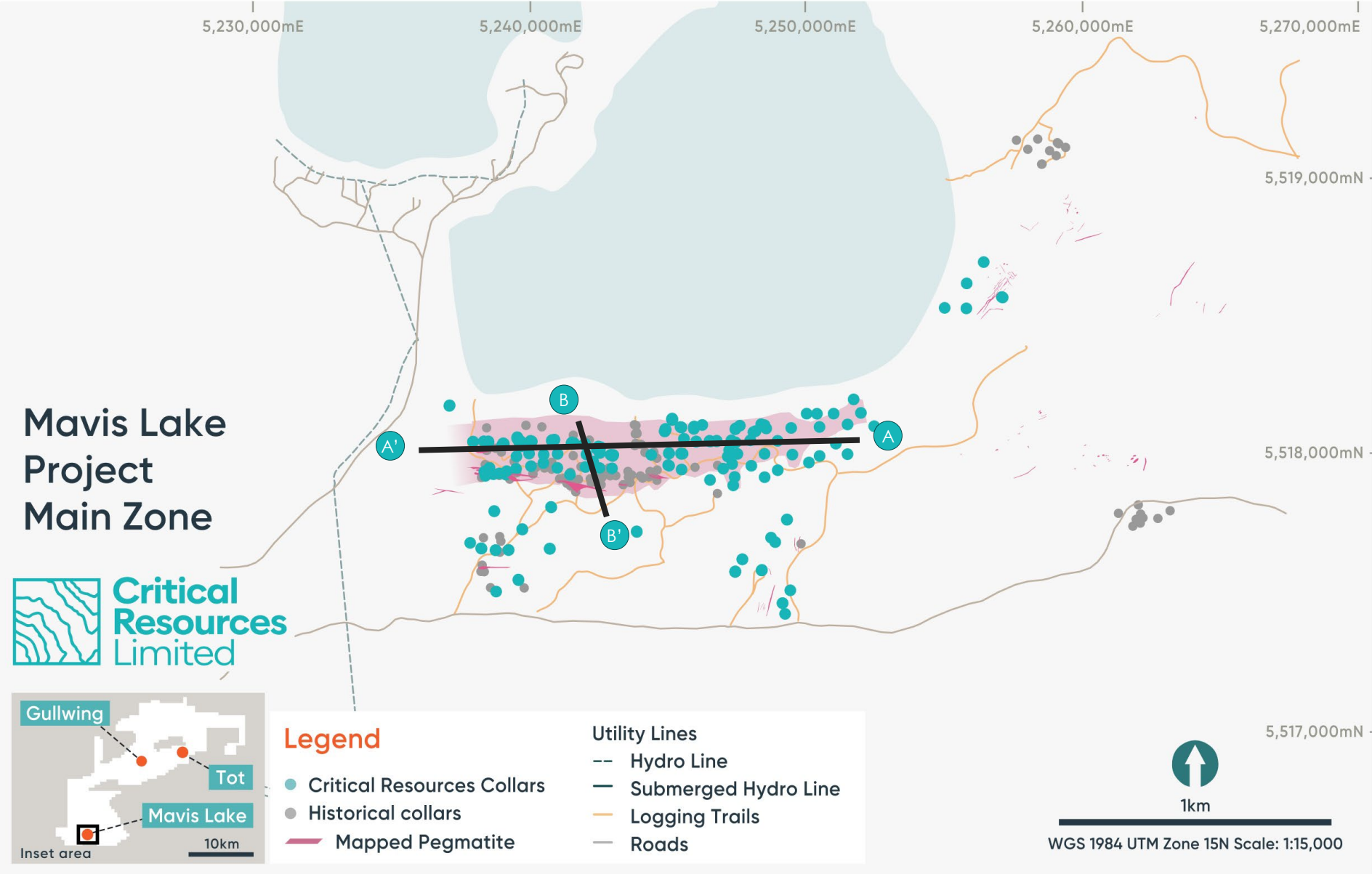
All announcements are available for viewing at the Company’s website www.criticalresources.com.au.

JORC Classification	Li ₂ O Cut-Off grade (%)	Tonnage (Mt)	Li ₂ O (%)
Inferred	0.3	8.0	1.07

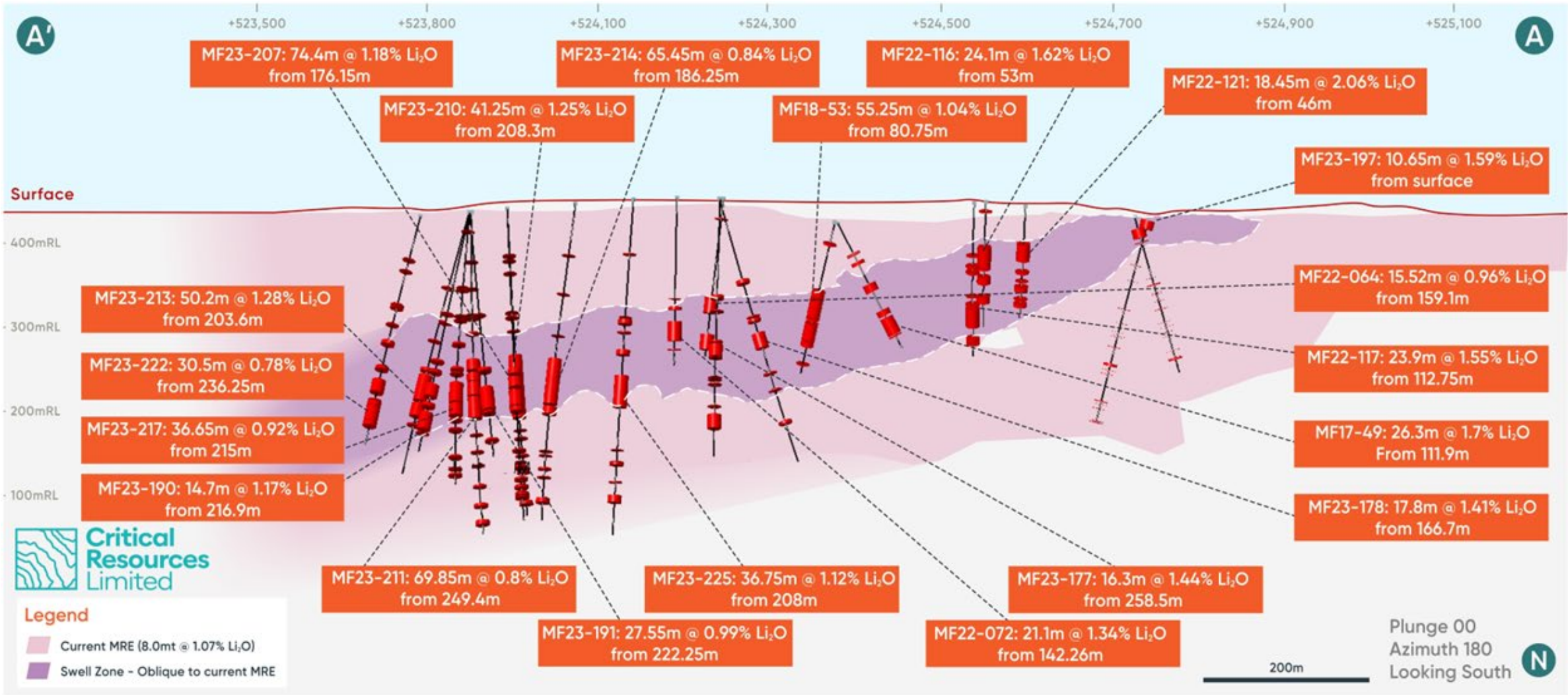
Main Zone Plan View and Section References



Critical Resources Limited



Main Zone Long Section



Ontario's Lithium Landscape

