

# RIU RESURGENCE CONFERENCE

Building a sustainable,  
North-American focused  
lithium business

December 2021

**GT1: ASX**



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# THE Ontario Lithium Projects

Three high-grade deposits in North America

## 1 SEYMOUR

4.8Mt Mineral Resource (2.13Mt Indicated, 2.7Mt Inferred) benefiting from a trans-continental rail siding on the tenement<sup>1</sup>

Exploration target: 22 – 26 Mt @ 0.8-1.5% Li<sub>2</sub>O

## 2 ROOT

Historical estimate, dense pegmatite swarm on a granted mining lease

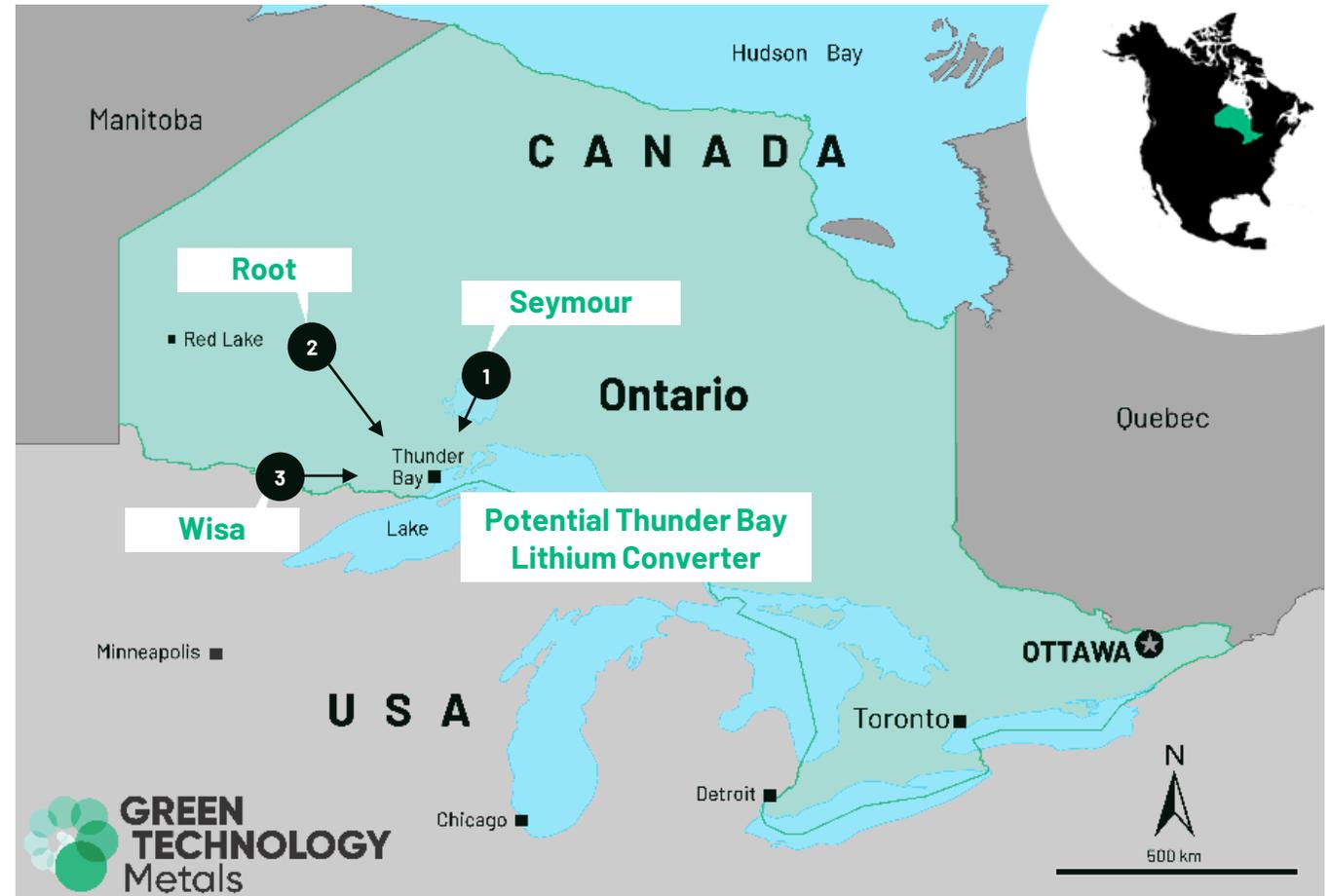
Exploration target: 20 – 24 Mt @ 0.8-1.5% Li<sub>2</sub>O

## 3 WISA

Historical estimate strategically located 8km from the US border

Exploration target: 8 – 10 Mt @ 0.8-1.5% Li<sub>2</sub>O

The potential quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. See Appendix Exploration target



1. For full details of Mineral Resources estimates, please refer to Appendix Resource Estimate. Green Technology Metals confirms that it is not aware of any new information or data that materially affects the information included in those releases. All material assumptions and technical parameters underpinning the estimates in those releases continue to apply and have not materially changed.

# A PROVEN Board and management team

Track record of successfully delivering lithium projects

## **JOHN YOUNG** Chairman

- Highly experienced geologist
- Co-founder and Executive Director of Pilbara Minerals Ltd
- Current Non-Executive Director of Bardoc Gold and Trek Metals

## **CAMERON HENRY** Non-Executive Director

- Founding MD of Primero Group
- Over 20 years experience in development and delivery of global minerals processing, energy and NPI projects

## **LUKE COX** Chief Executive Officer

- Geologist and mine manager with 25 years experience in the mining industry
- Global exploration, mining and financing experience across commodities including lithium, nickel and cobalt

## **PATRICK MURPHY** Non-Executive Director

- Managing Director at AMCI Group, an experienced investment firm with a portfolio of exploration and development interests
- 14 years experience gained at AMCI and investment bank, Macquarie

## **ROB LONGLEY** Non-Executive Director

- Geologist with +20 years experience in global resources across a range of commodities
- CEO/MD of Artiden, previous GM Geology at Sundance Resources

## **MATT HERBERT** General Manager North America

- Exploration Manager and OPF Processing Manager with +20 years experience
- 14 years with Rio Tinto and FMG in management roles

## **JOEL IVES** Company Secretary

- Finance and business advisory executive
- CFO and Company Secretarial services specialist

## STRATEGIC PARTNERS



# INVESTMENT Highlights



**BEST IN CLASS TEAM AND PARTNERS**



**STRONG ESG CREDENTIALS**



**STRATEGIC LITHIUM PROJECTS**



**FAST TRACK DEVELOPMENT STRATEGY**



**SUBSTANTIAL EXPLORATION UPSIDE**

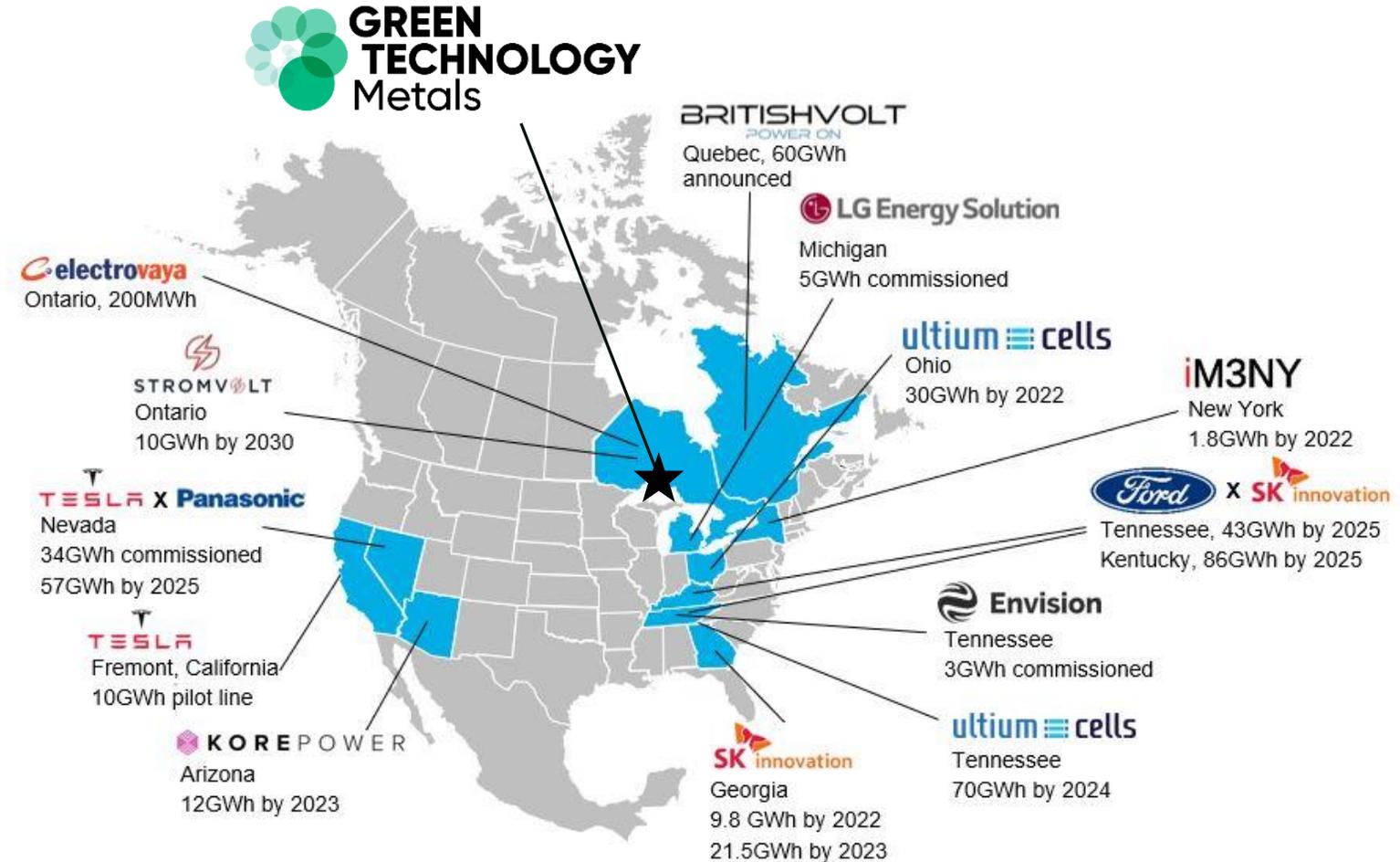


**ATTRACTIVE METALLURGY**

# EMERGING North American EV battery dynamics

Canada is the cornerstone of battery supply chain

- North America hosts **all critical ingredients needed for EV batteries**: lithium, nickel, cobalt and graphite
- Two cell manufacturers plan to build **gigawatt-hour scale cell manufacturing facilities in Ontario**
- Likely the rest of the **EV battery component manufacturing industry will follow** as suppliers move close to their customers

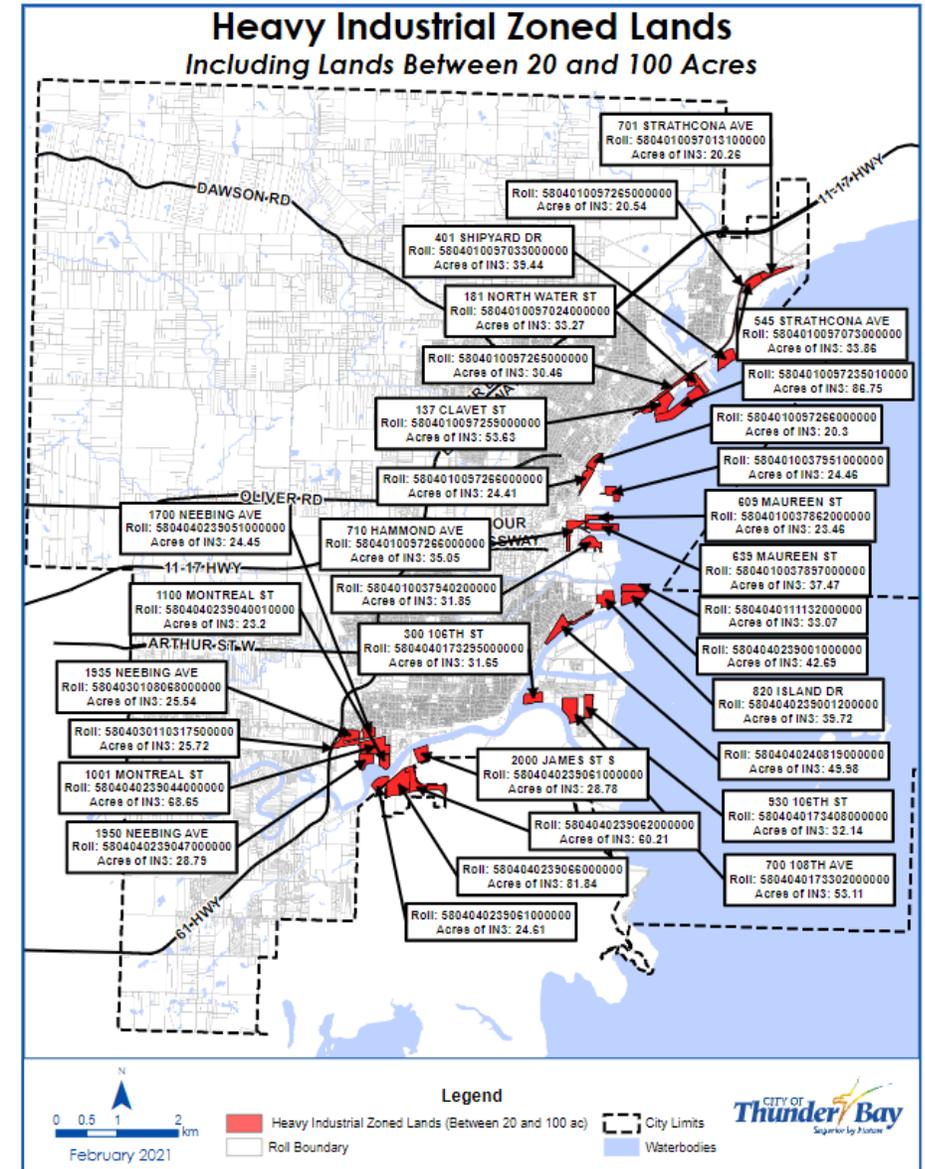


Source: Bloomberg

# SUPPORTIVE Local jurisdiction

Thunder Bay Government on-board

- Over 50 potential heavy industry locations for lithium conversion facility
- Numerous available port facilities
- Thunder Bay Community Economic Development
  - Mining Readiness Strategy
  - City of Thunder Bay to support Mining Sector
- Federal Government
  - Mines to Mobility, Seizing the opportunity for Canada
- Discussing the introduction of “**Priority Status**” for Mining Companies in Lithium and EV Metals



# DIRECT Access to hydro-power

A responsible company providing a material critical to a sustainable future

- Targeted supply of highly competitive lithium products across all key dynamics: quality, cost, environmental, emissions, community
- Proximate to Hydro One hydro power interconnector providing access to environmentally responsible power
- Evaluating combination of process water recycling technologies and dry tailing stacking to minimise fresh water consumption
- Ontario hosts a thriving agricultural industry that supports other industries such as mining with biofuels and seasonal staff
- **Early Exploration Agreement signed with Whitesand First Nation**



- In June 2021, the US Government Office of Efficiency & Renewable Energy published a National Blueprint for Lithium Batteries<sup>1</sup> to:
  - securing access to inputs
  - supporting a U.S. materials processing base

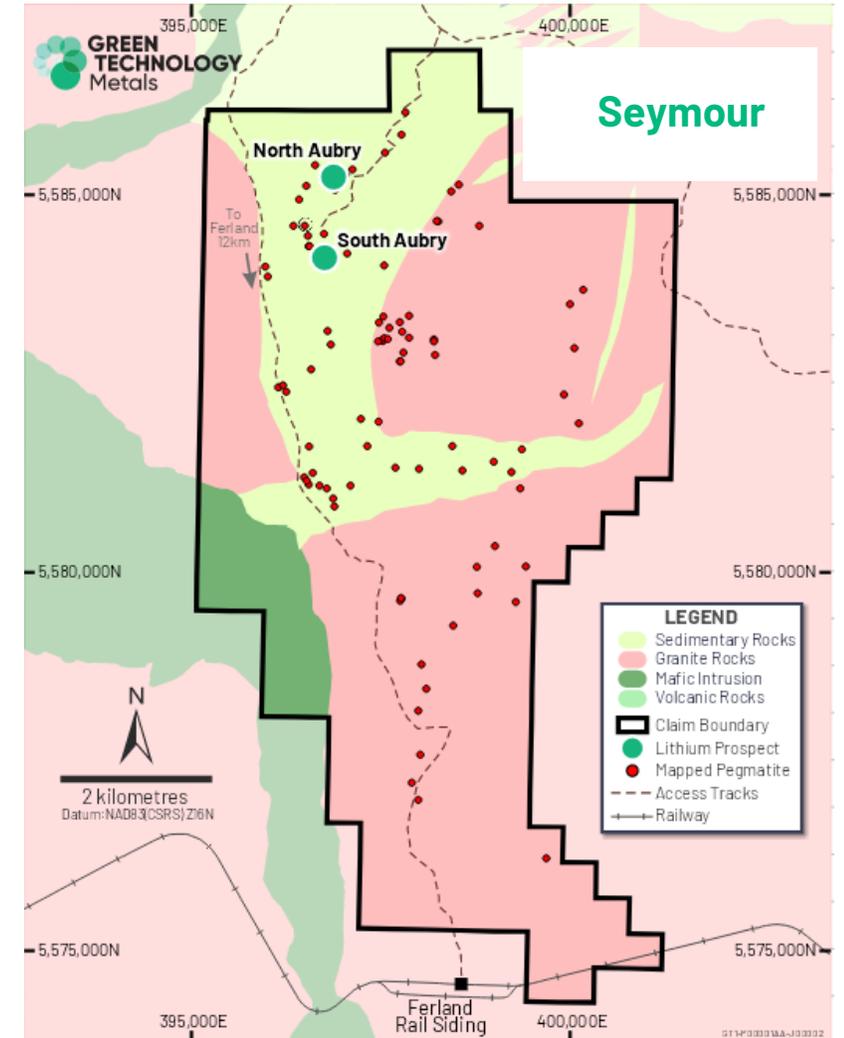
## VISION FOR THE LITHIUM-BATTERY SUPPLY CHAIN

By 2030, the United States and its partners will establish secure battery materials and technology supply chain that supports long-term U.S. economic competitiveness and equitable job creation, enables decarbonization, advances social justice, and meets national security requirements<sup>1</sup>

# 1 SEYMOUR Mapped pegmatites

Pathway markers to substantial potential resource growth

- **History** – Regional exploration commenced in 1950 by Government Geologists and Archean Greenstone Belt was delineated through Seymour.
- **Pegmatites** – Two large pegmatites were mapped by Prospector Nelson Aubry and subsequently converted to a JORC Resource.
- **Exploration** – Numerous other pegmatites have been mapped across the entire Seymour project with no apparent control of mineralisation.....



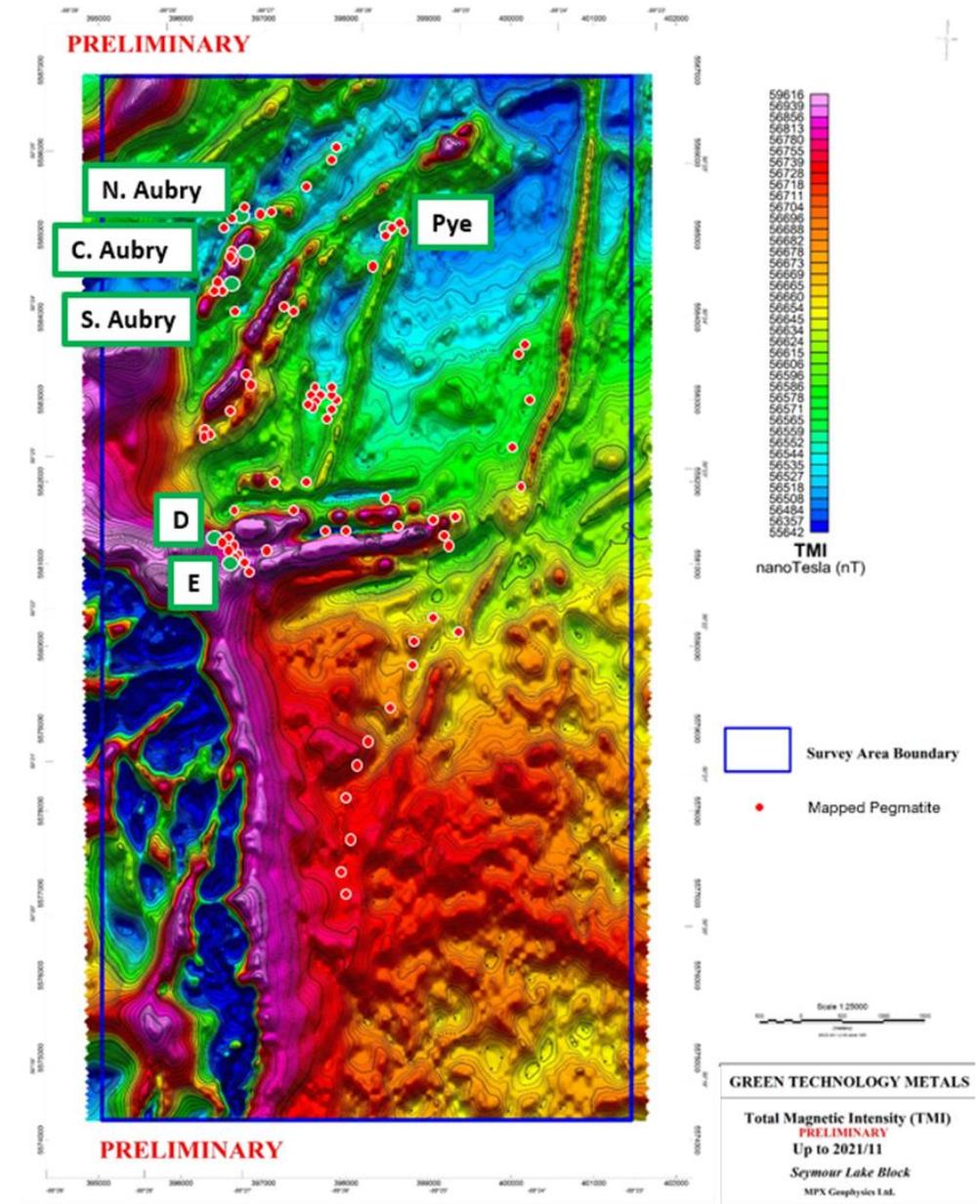
# 1 SEYMOUR Recent geophysics

Sharp delineation of structural controls

- Exploration target of **22 – 26 Mt @ 0.8-1.5% Li<sub>2</sub>O** with 7km of strike identified

The potential quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. See Appendix Exploration target

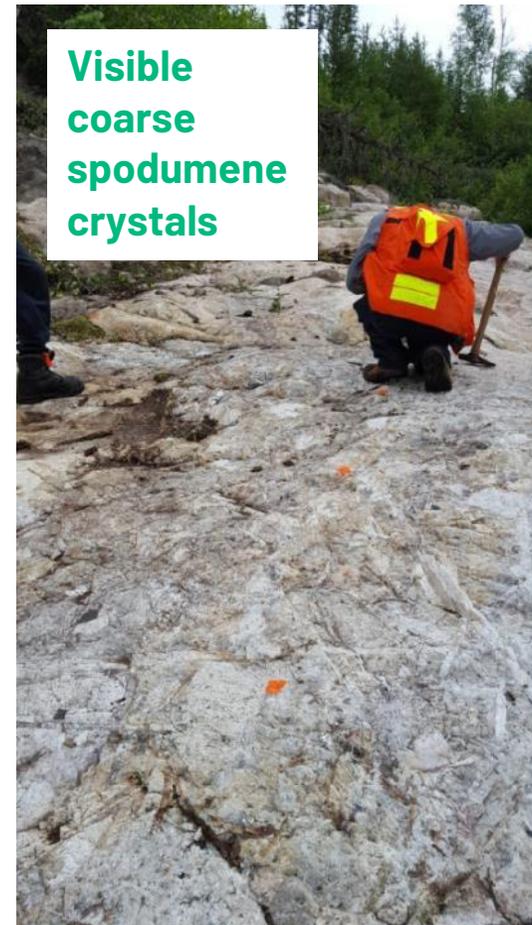
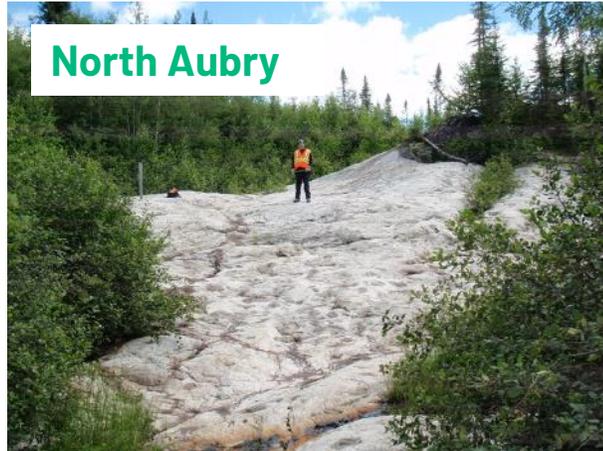
- Additional pegmatites exposed at surface with rock chip **lithium grades up to 4.54 Li<sub>2</sub>O**<sup>1</sup>:
  - Pye
  - Central Aubry
  - "D"
  - "E"



1. ADV:ASX Announcement 21 September 2016, Pegmatite Structures at Seymour

# 1 SEYMOUR Outcropping pegmatites across tenure

Large scale surface exposures



# 1 SEYMOUR Tip of iceberg parallels

Pegmatites typically bifurcate, pinch, swell and open up at depth

Greenbushes - WA



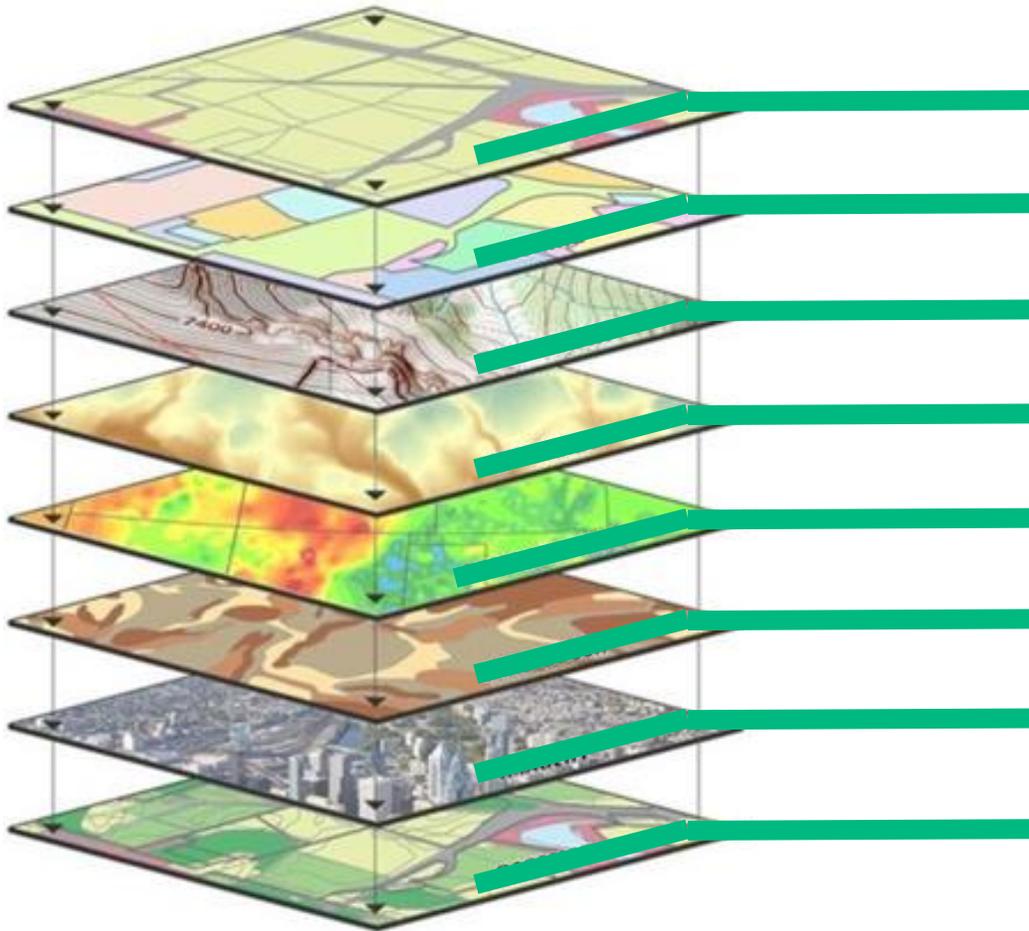
Wodgina - WA



Pilgangoora - WA



# 1 SEYMOUR A substantial initial work program complete



<b>Seymour Data for interpretation</b>	
	<b>Geological map, Geochemistry &amp; MRE (2018 to date)</b>
	<b>Aerial Photography (August 2021)</b>
	<b>LiDAR (August 2021)</b>
	<b>Total Magnetic Intensity (September 2021)</b>
	<b>Radiometric K, TC, Th, ThK, U, UK, UTh (September 2021)</b>
	<b>VLF - Elec Mag (September 2021)</b>
	<b>Sentinel remote sensing (October 2021)</b>
	<b>Ground Penetrating Radar (2018)</b>



INTERPRETATION OF LITHOLOGY,  
STRUCTURE AND TARGETS

# 1 SEYMOUR Rapid project advancement

Systematic and swift approach to aggressively growing high-grade Mineral Resources

Activity	Status
1. Review historical exploration, drilling and mining	Complete
2. Build geological database and model	Complete
3. LIDAR, aerial photography, and composite 3D mapping	Complete
4. Geophysical surveying	Complete
5. Geophysical interpretation	Commenced
6. Geological mapping	Ongoing
7. Drill targeting	Phase 1 ready
8. Ground preparations and drilling ( <b>11-hole, 3,800 metres diamond drilling program, two rigs</b> )	Commenced
9. Updated Mineral Resource and geotechnical modelling	Q2 2022

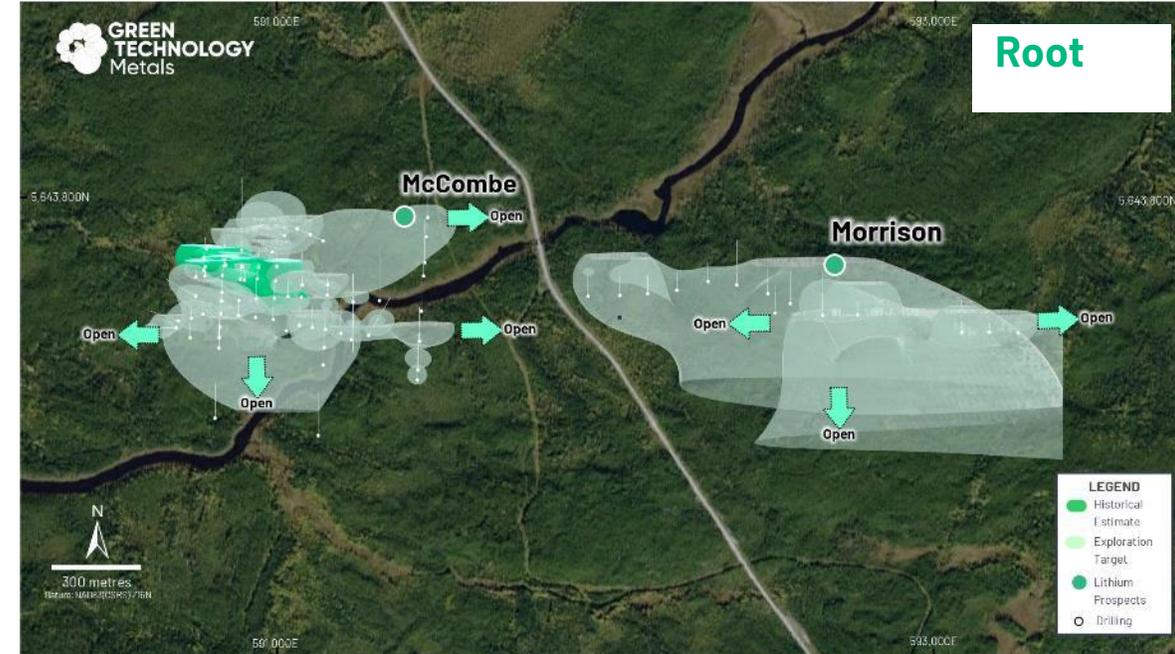
## 2 ROOT Significant along-strike and down-dip potential

### McCombe stacked pegmatite swarm

- Exploration target **20 to 24 Mt @ 0.8 to 1.5% Li<sub>2</sub>O**

The potential quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. See Appendix Exploration target

- Down dip grade continuity test confirmed 67m @ 1.7% Li<sub>2</sub>O<sup>1</sup>
- Patented Claims (landowner) over McCombe have simplified development process
- Implicit modelling has highlighted a pegmatite swarm with significant widths and grade at McCombe

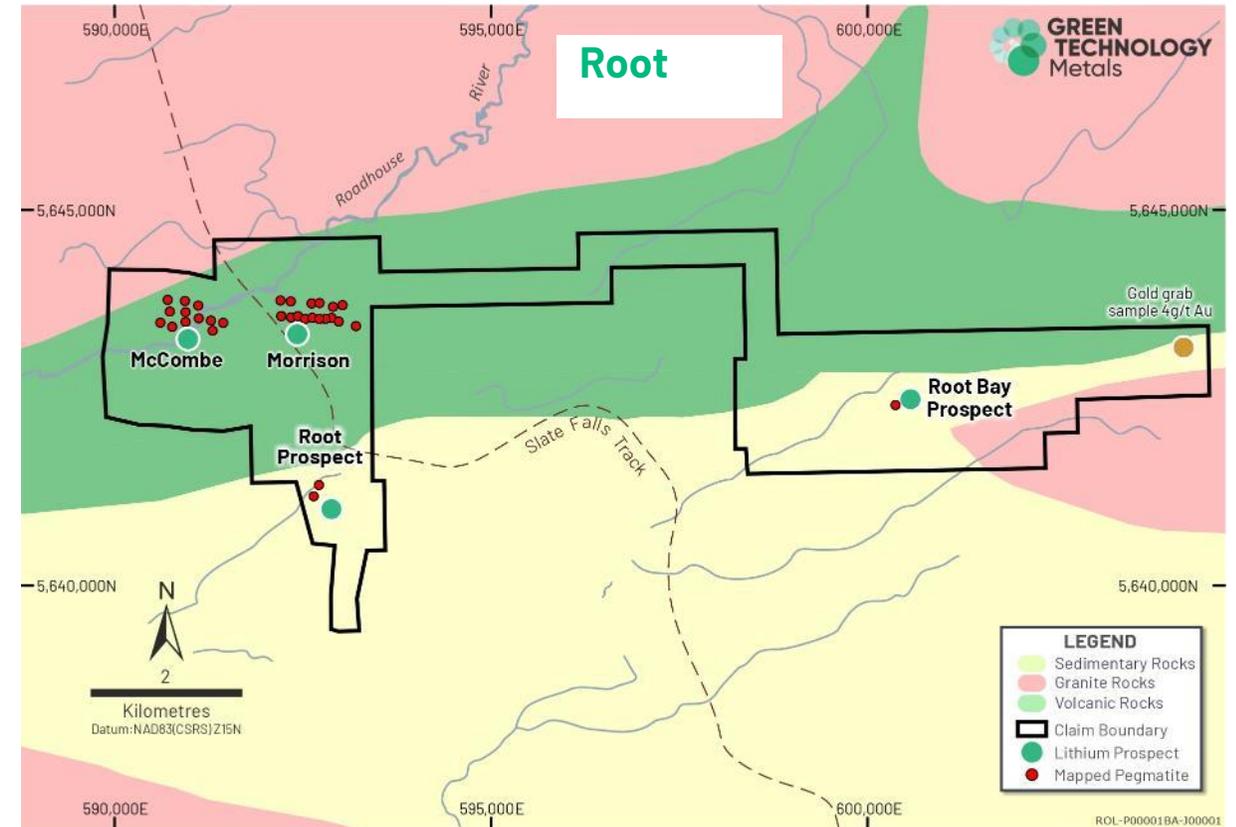


1: ADV – ASX 22 June 2016 Grades of up to 3.8% Lithium Oxide from maiden drill program.

## 2 ROOT Planned drilling of sizeable targets in 2022

Dense pegmatite swarms with a granted mining lease

- **Prospective** - four prospects with outcropping pegmatites offering walk-up drill targets
- **Ready for exploration** - additional 4.8km of potential strike length identified and awaiting testing
- **Early success** - historical estimate has been identified



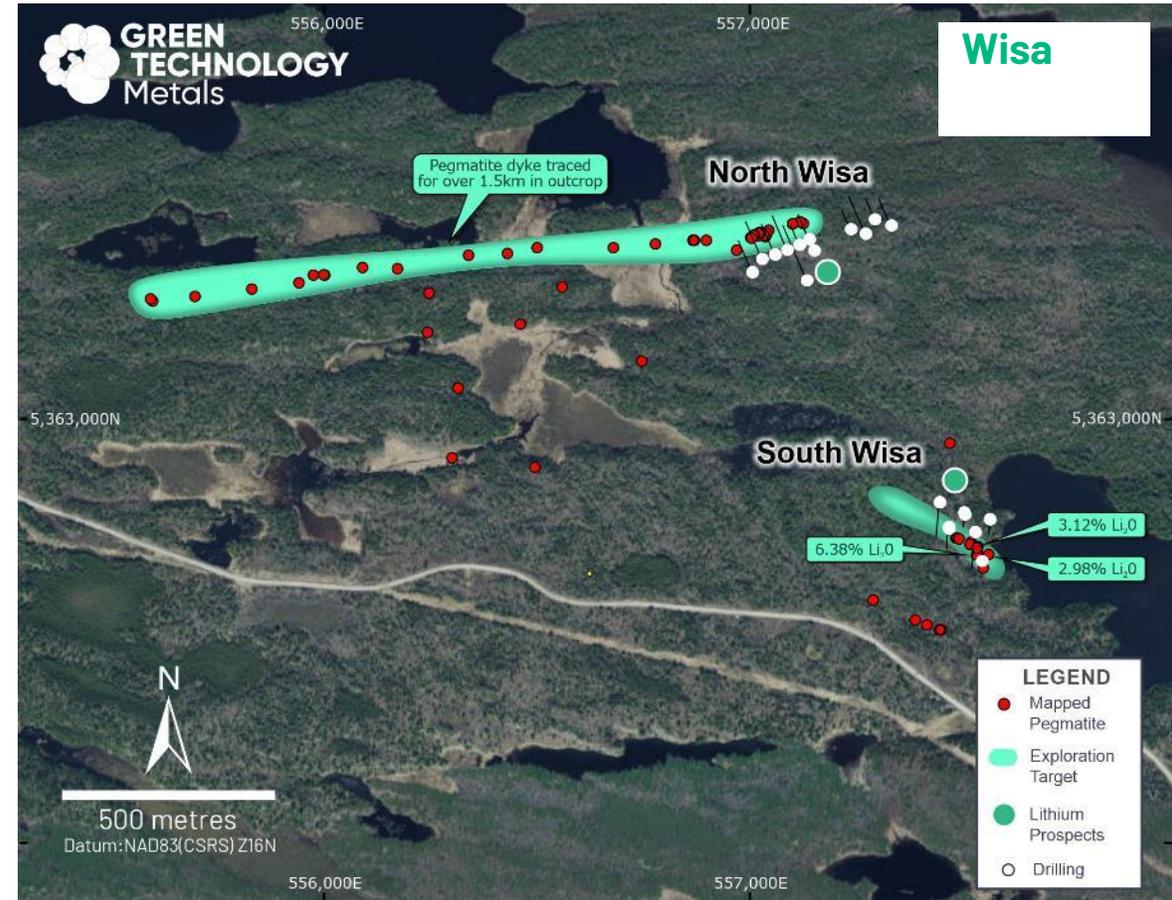
### 3 WISA Large-scale pegmatite corridor

Strategically located 8km from the US border

- **Large** – tenement base that covers 18.9km<sup>2</sup> historically an under-explored area
- **Potential** - Exploration target **8 - 10 Mt @ 0.8 to 1.5% Li<sub>2</sub>O**

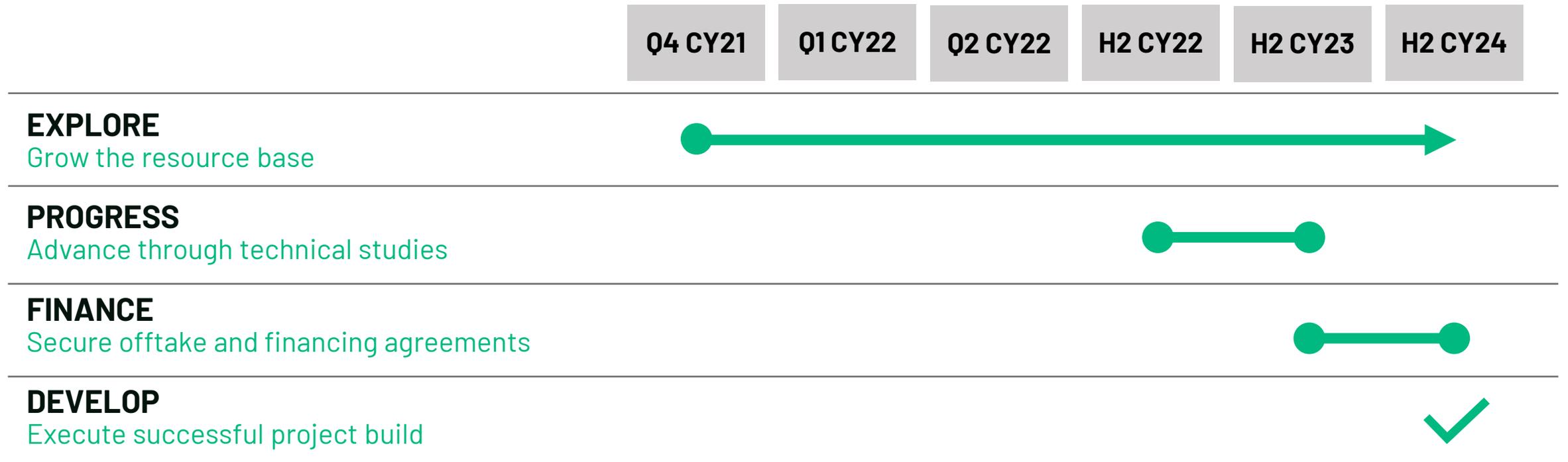
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See Appendix Exploration target

- **Multiple zones** – North Zone displays sheeted south dipping pegmatites open at depth and South Zone displays dipping pegmatites
- **Accessible** – established all seasons road 40km from Trans Canadian Highway



# ACTIVITY Plan

Rapid resource expansion and an accelerated pathway to financing



# BUILDING A SUSTAINABLE, NORTH-AMERICAN FOCUSED

Lithium Business



**BEST IN CLASS TEAM AND PARTNERS**



**STRONG ESG CREDENTIALS**



**STRATEGIC LITHIUM PROJECTS**



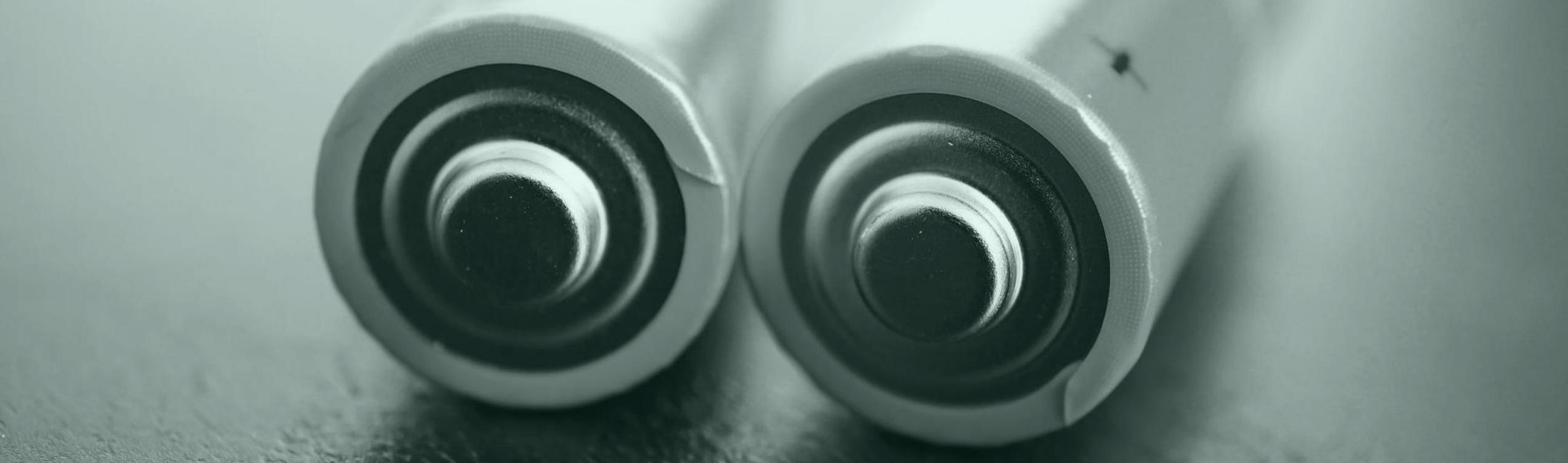
**FAST TRACK DEVELOPMENT STRATEGY**



**SUBSTANTIAL EXPLORATION UPSIDE**



**ATTRACTIVE METALLURGY**



# CONTACT Details

## Chief Executive Officer

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# APPENDIX A

## Mineral Resources



# APPENDIX Resource estimate

## The Ontario Lithium Projects

### Seymour Lake <sup>1</sup>

Area	Category	Mt	Li <sub>2</sub> O (%)	Ta <sub>2</sub> O <sub>5</sub> (ppm)
North Aubry	Indicated	2.13	1.29	210
North Aubry	Inferred	1.70	1.50	189
South Aubry	Inferred	1.00	0.80	128
<b>Total</b>		<b>4.83</b>	<b>1.25</b>	<b>186</b>

1: ADV - ASX Announced 6<sup>th</sup> March 2019, Substantial Increase in Mineral Resources at Seymour Lake.

# APPENDIX Exploration targets

## **Qualifying Statement for the Exploration Targets**

The potential quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource

## **Geological Setting**

All the Claims (Seymour, Root & Wisa) host lithium bearing pegmatites which sit within the fractioned lithium zone close to their magmatic source

## **Strike**

Drilling, surface sampling, aerial ortho-mosaics and topographic mapping (LiDAR) have been used to determine the approximate strike length of the pegmatites

## **Depth**

Drilling at Seymour and Root have confirmed the pegmatites can exceed 250m in depth, thus a depth of 500m has been applied

## **Thickness**

Implicit Modelling has been utilised to determine the thickness of the pegmatites and then extrapolated along strike and down dip using the parameters mentioned above

## **Tonnage**

Specific gravity of 2.78 has been applied to the implicit model volumes to determine the tonnage

## **Grade**

The Seymour JORC Resource hosted Inferred grades ranging from 0.8 to 1.5%  $\text{Li}_2\text{O}$ , this has been used for the Exploration Targets

## **Exploration Activities**

All exploration targets will be tested by field mapping and drilling over a period of 24 months

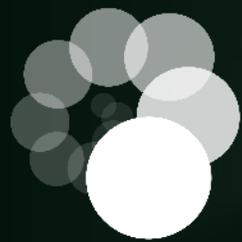
# APPENDIX Competent Person Statements

The information in this presentation that relates to Exploration Results and Mineral Resources for the projects in which the Company has tenure over was first released in the Company's prospectus lodged with ASIC on 16 September 2021 (Prospectus) in respect of its initial public offer of shares on ASX. The Company confirms that it is not aware of any new information or data that materially affects the information in the Prospectus and that the material assumptions and technical parameters underpinning the Mineral Resource continue to apply and have not materially changed.

The information in this Presentation that relates to the Exploration Target at Seymour is based on activities carried out by Mr Luke Cox. Mr Cox has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Cox consents to the inclusion in this Presentation of the matters based on the information in the form and context in which it appears in this Presentation. Mr Cox is the Chief Executive Officer of the Company and holds securities in the Company.

The information in this Presentation that relates to the Exploration Target at Root is based on activities carried out by Mr Luke Cox. Mr Cox has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Cox consents to the inclusion in this Presentation of the matters based on the information in the form and context in which it appears in this Presentation. Mr Cox is the Chief Executive Officer of the Company and holds securities in the Company.

The information in this Presentation that relates to the Exploration Target at Wisa is based on activities carried out by Mr Luke Cox. Mr Cox has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Cox consents to the inclusion in this Presentation of the matters based on the information in the form and context in which it appears in this Presentation. Mr Cox is the Chief Executive Officer of the Company and holds securities in the Company.



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