



INVESTOR PRESENTATION

OCTOBER 2023

Building the pre-eminent vertically
integrated **Lithium** business in
Ontario, Canada

ASX | GT1

INDIGENOUS PARTNERS ACKNOWLEDGEMENT

We would like to say Gchi Miigwech to our Indigenous partners. GT1 appreciates the opportunity to work in the Traditional Territory and remains committed to the recognition and respect of those who have lived, travelled, and gathered on the lands since time immemorial. Green Technology Metals is committed to stewarding Indigenous heritage and remains committed to building, fostering, and encouraging a respectful relationship with Indigenous Peoples based upon principles of mutual trust, respect, reciprocity, and collaboration in the spirit of reconciliation.



CORPORATE SNAPSHOT

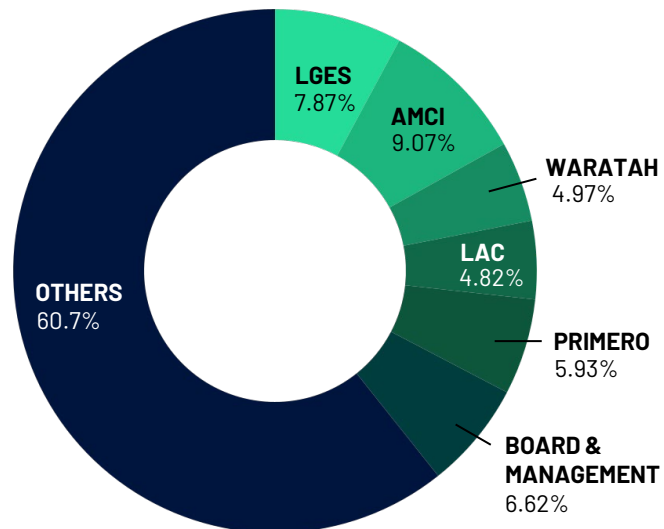


276.1M SHARES ON ISSUE

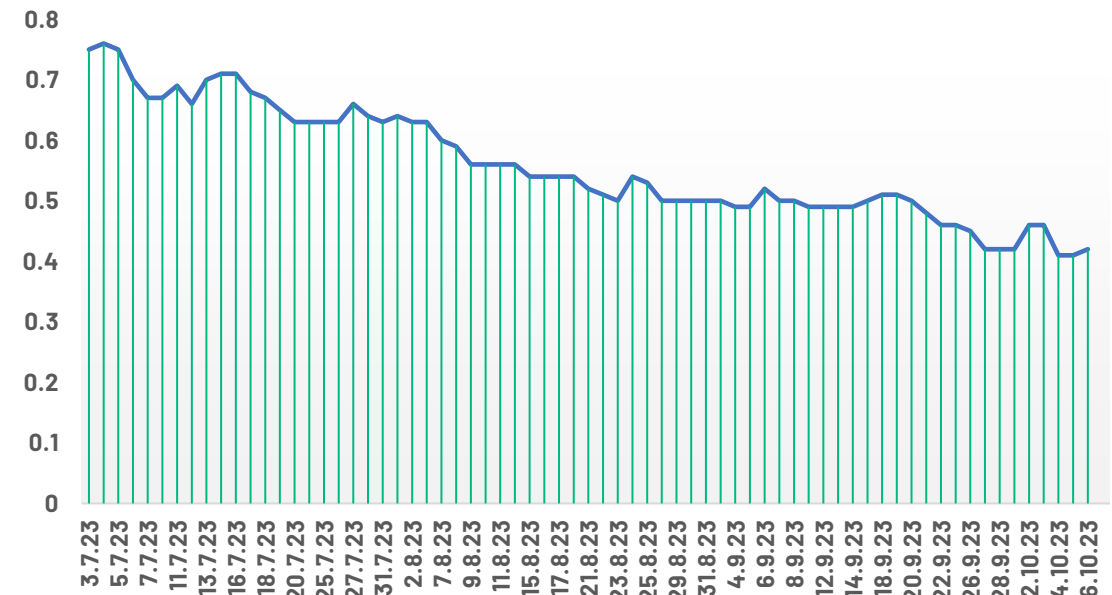
5.8M OPTIONS

18.5M PERFORMANCE RIGHTS

SHARE REGISTER



SHARE PRICE PERFORMANCE



As at 7 October 2023, cash balance as at 30 June 2023

COMPANY OVERVIEW

22.5Mt¹

TOTAL JORC MINERAL RESOURCE ESTIMATE

1.14%

AVERAGE Li₂O GRADE

10

LITHIUM PROJECT AREAS

56k Ha

560KM² LAND HOLDING

2025

PLANNED FIRST SPODUMENE CONCENTRATE PRODUCTION

72%

SPODUMENE CONCENTRATE PRODUCED FROM INITIAL HLS TESTWORK FOR SEYMOUR WITH LITHIUM RECOVERY EXCEEDING 72%

Extensive Portfolio of projects in Tier-1 jurisdiction



Company Highlights

Tier-1, low risk mining jurisdiction

- Prime position to support the North American EV market
- Supportive and proactive Government

Established, highly experienced local team in Thunder Bay and Toronto, Ontario

Strong leadership by a team who boast extensive experience in project execution

Moving from an Explorer to Developer with multiple works streams running in parallel while we rapidly grow our resources and develop our path to production

1. Seymour has an existing Mineral Resource estimate of 9.9 Mt @ 1.04% Li₂O (comprised of 5.2 Mt at 1.29% Li₂O Indicated and 4.7 Mt at 0.76% Li₂O Inferred).¹ and Root has an Inferred Mineral Resource Estimate of 12.6 Mt @ 1.21% Li₂O. Refer to GT1 ASX release dated 7 June 2023, 22.5Mt Mineral Resource base across Ontario Lithium Projects.

BOARD AND MANAGEMENT

Extensive experience and proven track record of rapidly advancing and delivering lithium projects globally



JOHN YOUNG

Non-Executive Chairman

Highly experienced geologist

Co-founder and previous Executive Director of Pilbara Minerals Ltd a A\$11.8b lithium company



CAMERON HENRY

Executive Director

20 years' experience managing and operating public companies. Founding Managing Director of Primero Group, a global EPC company that specialises in the design, construction and operation of minerals processing facilities and specifically hard rock Lithium



PATRICK MURPHY

Non-Executive Director

Managing Director at AMCI Group, an experienced investment firm with a portfolio of exploration and development interests



ROB LONGLEY

Non-Executive Director

Geologist with +30 years' experience in global resources across a range of commodities

Managing Director of Asra Minerals, previously CEO/MD of Ardiffen and GM Geology at Sundance Resources

EXECUTIVE TEAM



LUKE COX
Chief Executive Officer



MATT HERBERT
Chief Operation Officer



SCOTT GILBERT
Chief Financial Officer



NATHAN SIMS
VP Operations - Exploration



JOHN WINTERBOTTOM
GM Technical Services



ROGER SOUCKEY
VP HR and Communities



WHY ONTARIO?

TIER-1 MINING JURISDICTION

\$1.5b

In Strategic Innovation Fund (SIF), funding to support processing critical minerals

>\$25b

Committed in battery minerals supply chain since 2021

\$369b

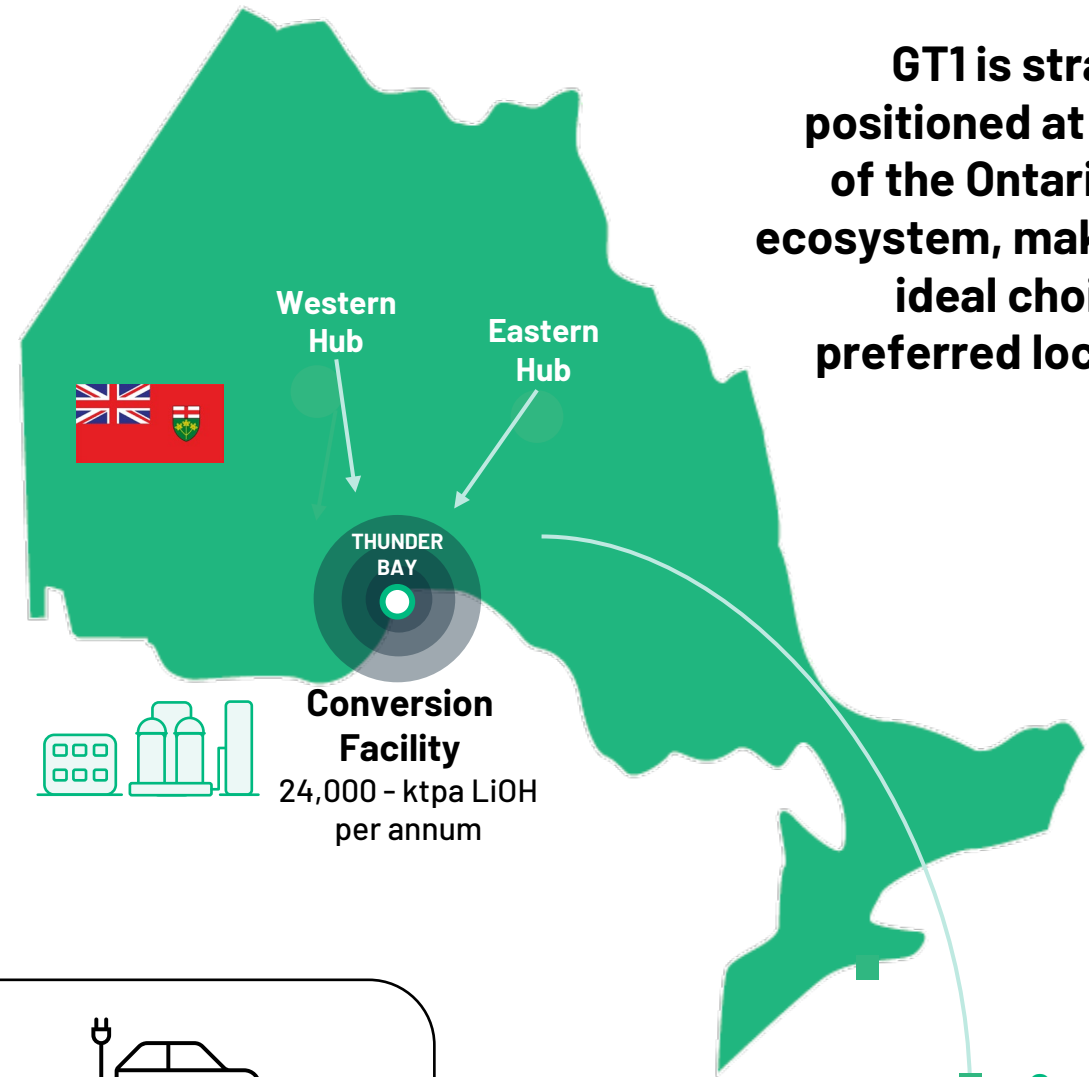
Towards green energy infrastructure and projects - U.S. Inflation Reduction Act 2022

\$80b

Canada's investment plan aimed at promoting clean energy and sustainable infrastructure

Ontario's Critical Minerals Strategy
Unlocking potential to drive economic prosperity and create jobs

- Enhancing geoscience information and supporting critical minerals exploration
- Growing domestic processing and creating resilient local supply chains
- Enhancing Ontario's competitive regulatory framework
- Investing in innovation, research and development
- Building economic development opportunities with Indigenous partners
- Growing labour supply and developing a skilled labour force



GT1 is strategically positioned at the heart of the Ontario battery ecosystem, making it the ideal choice as the preferred local lithium supplier

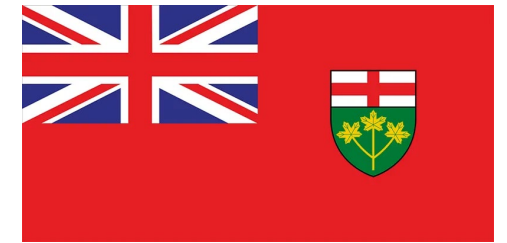
135 GWh
capacity in Ontario requiring **>120 ktpa** of LiOH per annum

STELLANTIS + LG Energy Solution

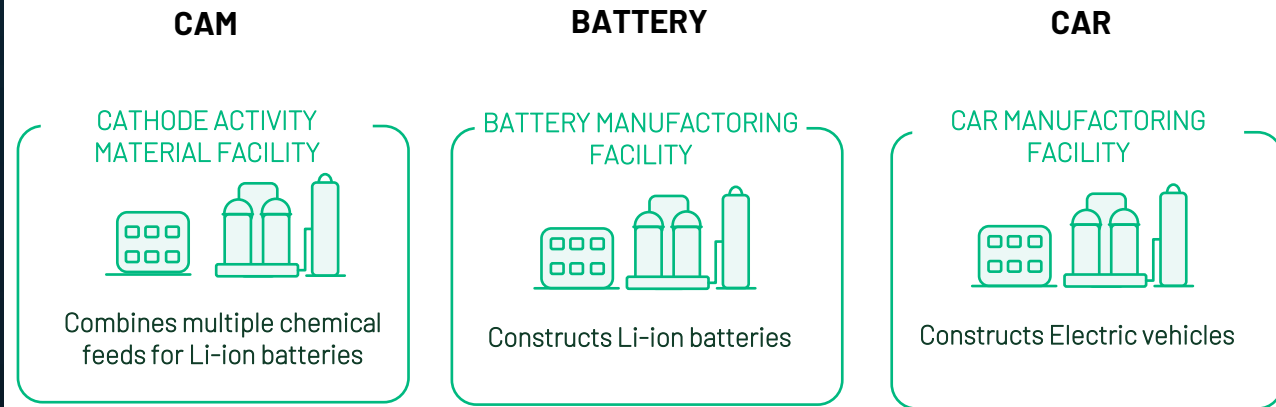
PowerCo
BATTERIES. FOR GENERATIONS TO COME.

1. <https://www.miningweekly.com/article/canada-unveils-criteria-for-cl5bn-funding-for-critical-mineral-projects-2023-07-17>All proposed production dates quoted are indicative
 2. <https://www.mckinsey.com/industries/public-sector/our-insights/the-inflation-reduction-act-heres-whats-in-it>
 3. <https://www.politico.com/news/2023/03/29/canada-u-s-clean-energy-ira-00089284>

SUPPLY CHAIN ROCK TO EV-BATTERY

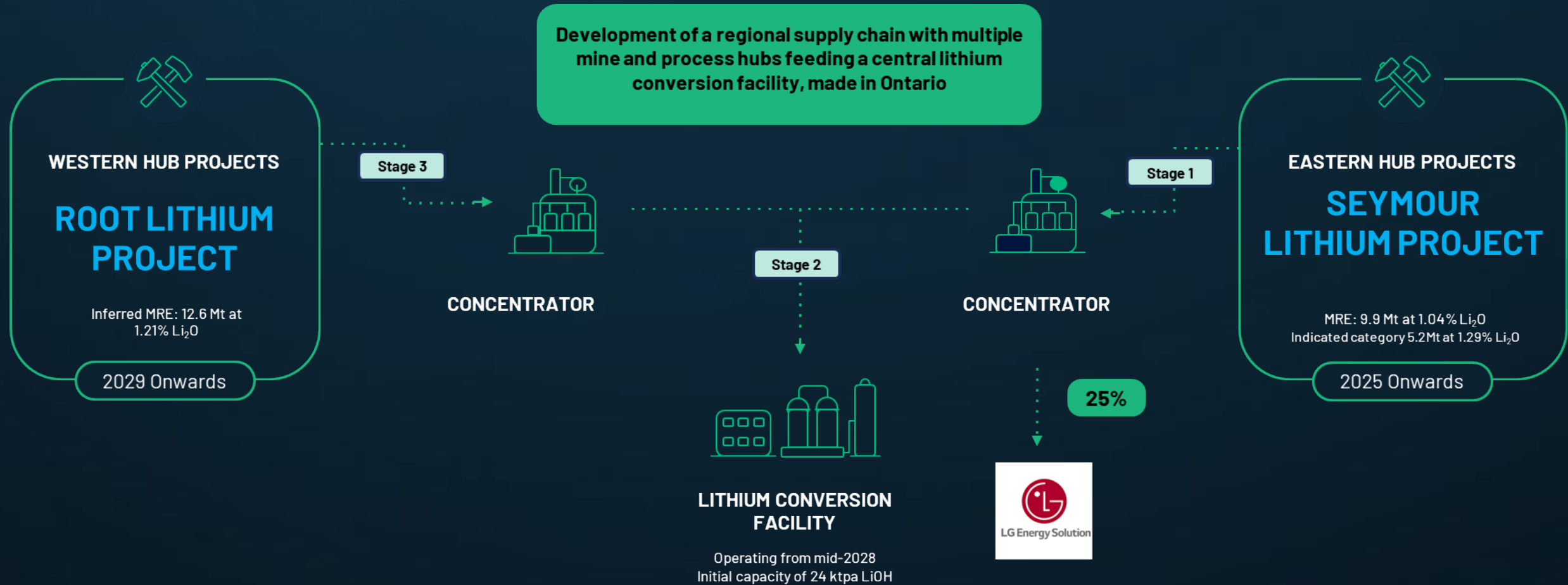


MADE IN ONTARIO



PIONEERING ONTARIO'S LITHIUM FUTURE

3 stage integrated strategy to become the first Concentrates and Chemicals producer in the region



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2. Potential lithium chemical conversion facility capacities presented are to be evaluated by the Company as part of its downstream and integrated feasibility study work, which is targeted for completion in H1 CY24. The numbers are not projections of future production and investors are cautioned not to rely on the potential plant capacities as being indicative of forecast production volumes.
3. All proposed production dates quoted are indicative

INTEGRATED PROJECT - FLOWSHEET

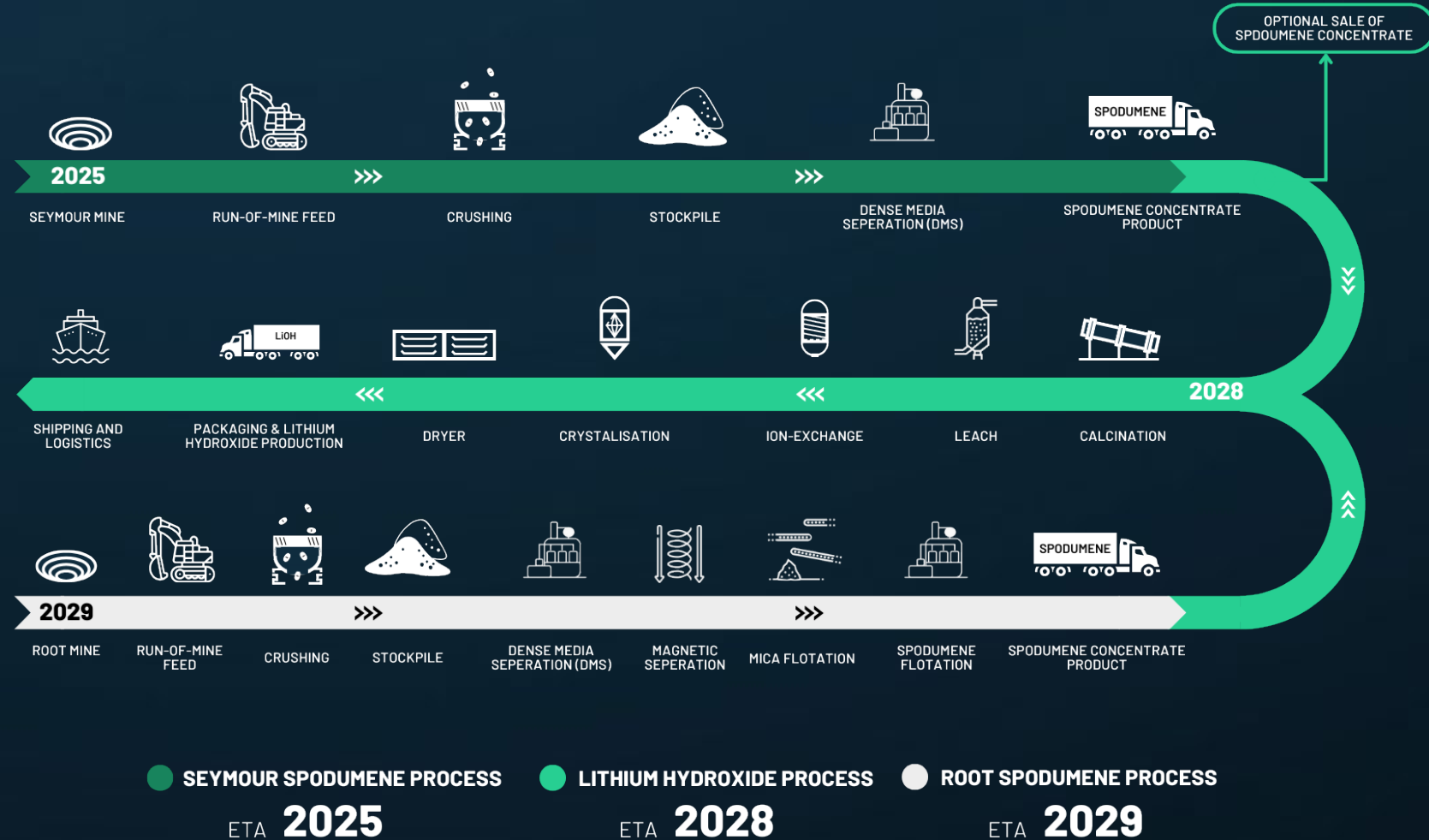
Conventional mining and conversion processes

Concentrators

- **Seymour:** Crushing and Dense Media Separation (DMS)
- **Root:** Crushing, DMS, milling, magnetic removal, mica and spodumene flotation

Conversion Facility

- **Thunder Bay:** Analcime by-product that can be treated and potentially used for civil/fill applications.



Optimisations are under evaluation to potentially re-organize the process flowsheet and eliminate process steps

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 2. All proposed production dates quoted are indicative

WORLD CLASS INFRASTRUCTURE

The Integrated Project located in Northern Ontario, one of the premier regions in the world for lithium exploration, with proximity to infrastructure, car manufacturers, battery storage and major high-tech population centres compared to other provinces in Canada



ALL WEATHER ROAD ACCESS



HEAVY HAULAGE AND WIDE LOAD CAPABILITY



ALL-WEATHER AIRPORTS



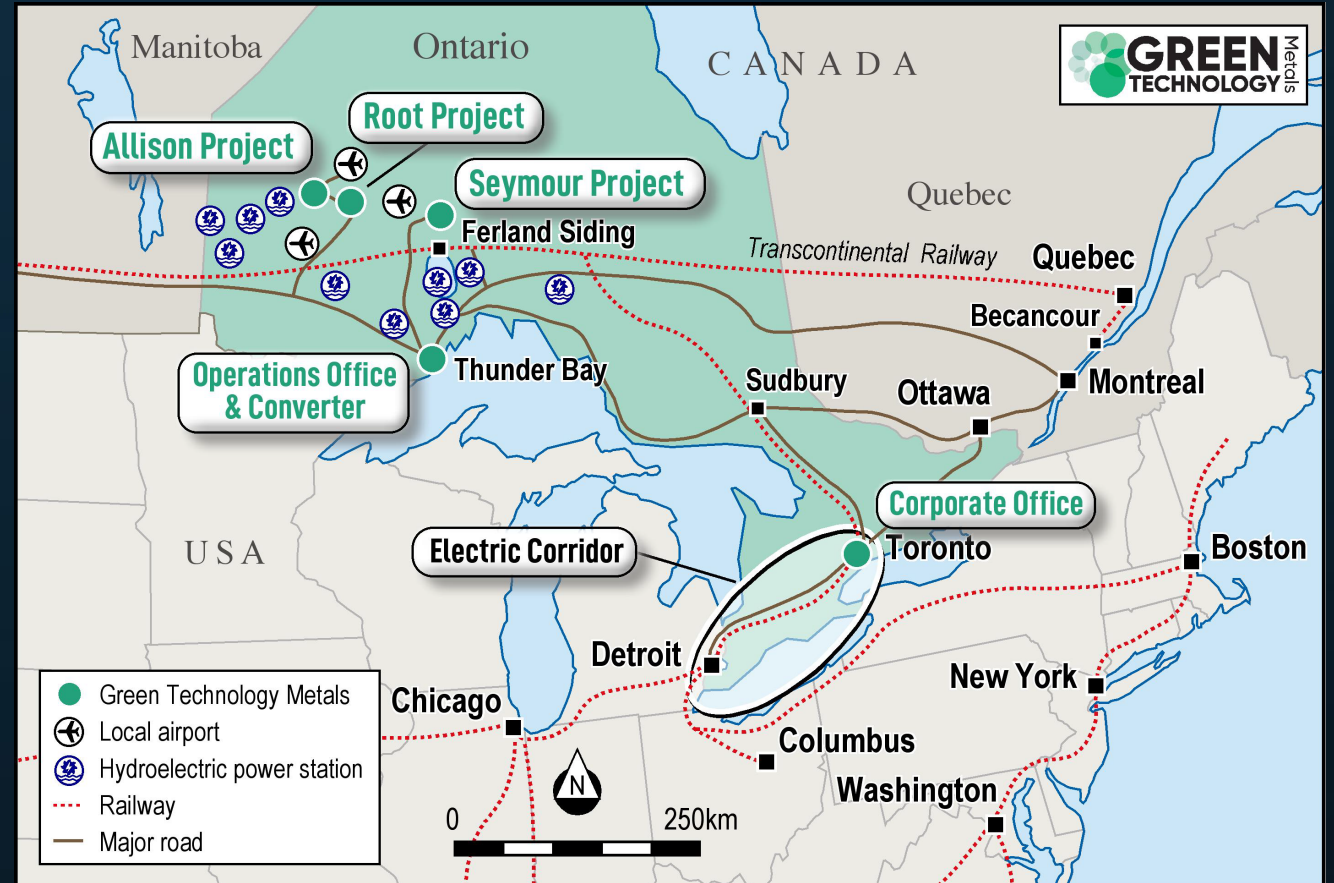
HYDRO POWER ACCESS



TRANS CANADIAN RAIL ACCESS



DEEP SEA PORT ACCESS



INDICATIVE TIMELINE TO PRODUCTION

Stage 1: Eastern Hub

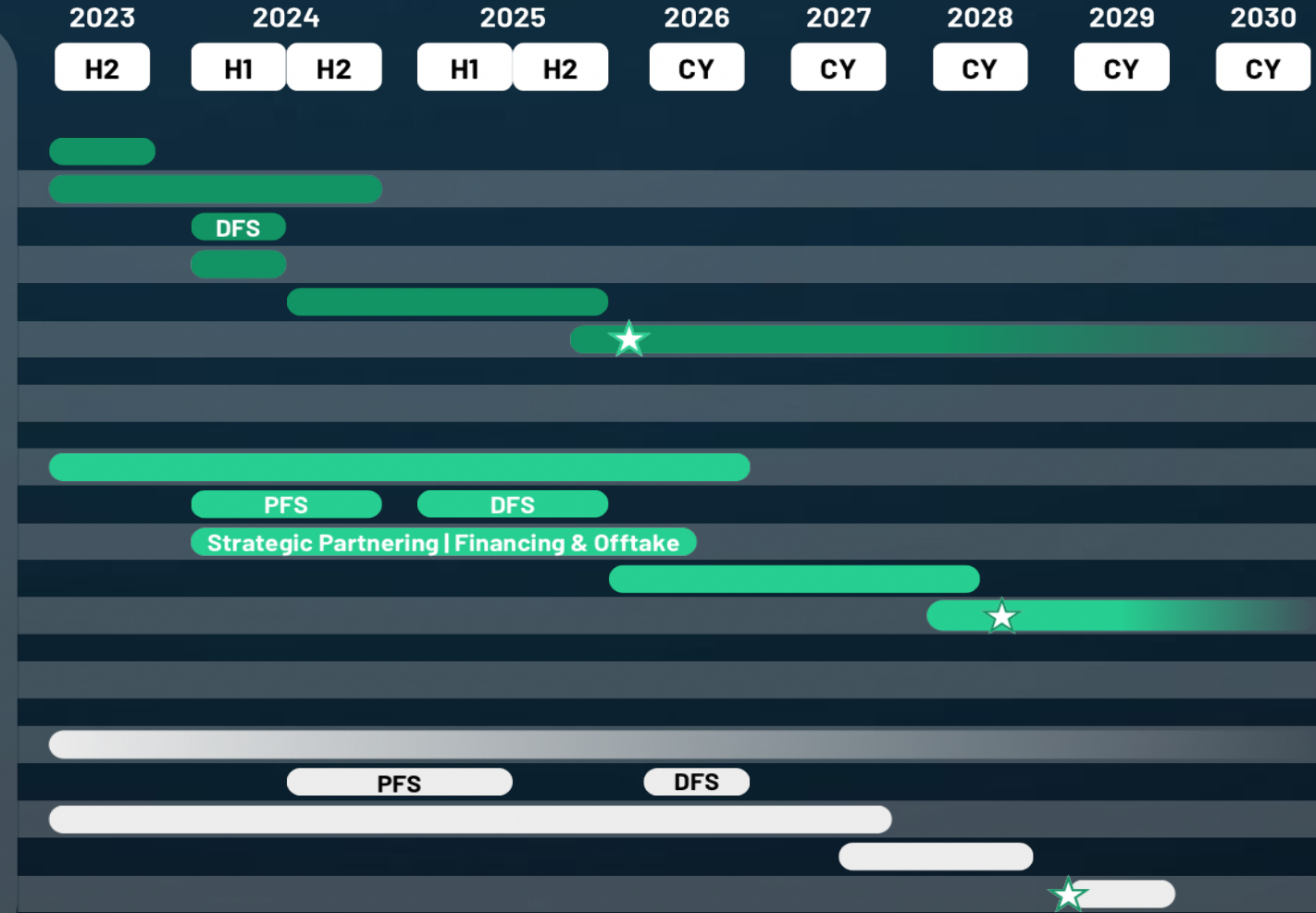
- Integrated PEA Release
- Permitting and Approvals
- Feasibility Study - Seymour
- FID and Financing
- Construction
- Spodumene Concentrate Production

Stage 2: Lithium Hydroxide Production

- Due Diligence and Permitting
- Feasibility Studies - LiOH
- Partnering and Finance
- Construction
- Commissioning & Production

Stage 3: Western Hub

- Resource Drilling
- Feasibility Studies - Root
- Permitting & Approvals
- Construction
- Production



STRATEGIC HIGHLIGHTS

First ever Offtake agreement executed and A\$20m strategic Investment from LG Energy Solution

Transformational 22.5 million tonne resource base across Ontario Projects

LOI signed for conversion facility in Thunder Bay with due diligence underway

SIF Funding application submitted

Strategic partnerships with prominent industry players such as Lithium Americas Corp, Primero, LG Energy Solution, and AMCI Group

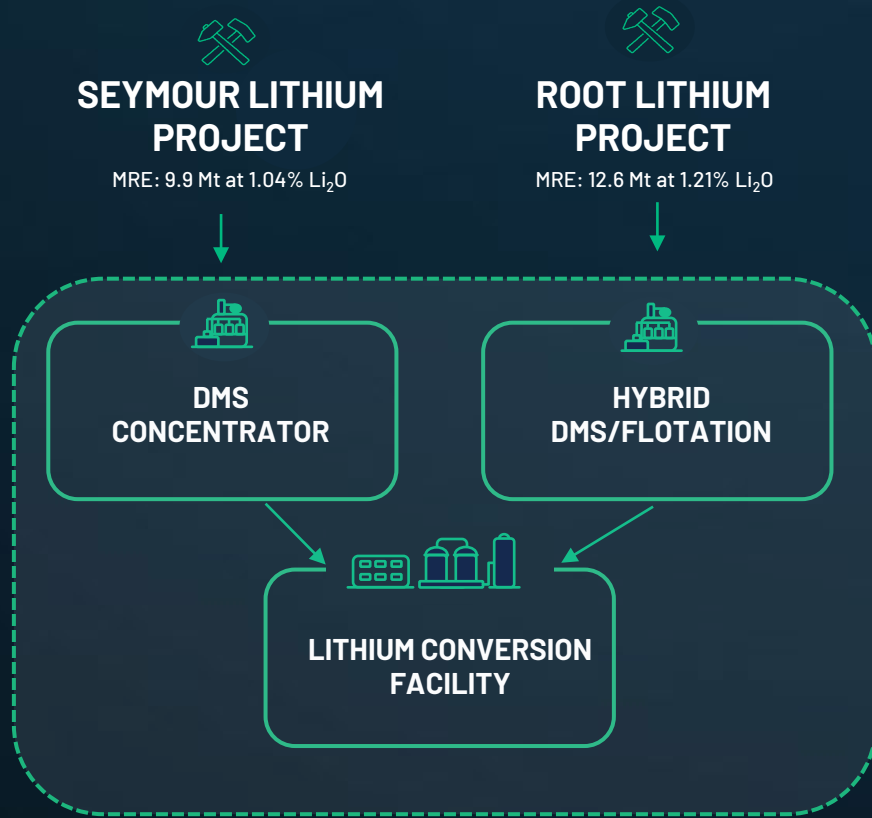
Renewed exploration agreement with Whitesand First Nation solidifying support for Seymour, Falcon and Junior projects

Acquisition of Junior Lithium Project, significant potential to add to GT1's eastern-hub resource base

PRELIMINARY ECONOMIC ASSESSMENT

The full potential of our mineral endowment will be unlocked through Pit to Product Lithium Business Development

Integrating mine, concentrator and conversion plant



Delivering a sustainable long-term lithium hydroxide supply to the Canadian supply chain

Study to Include

- A sustainable, valuable vertically integrated lithium operation
- Combined Economics for both Concentrators and Conversion Facility
 - Capital and operating costs
- Project life estimate
- Integrated site plan including Concentrators and Lithium Conversion facility process design
- Construction timeline and path forward over a 3-stage development
- Mechanical
- Environmental Studies
- Permitting Process
- Favourable Infrastructure and logistics
- Future upside – growth opportunities
- Planned release Q4 23



Stage 1: EASTERN HUB

OWNERSHIP	100% Owned
AREA	32,720 Hectares
RESOURCE (Current)	9.9Mt @ 1.04% Li ₂ O (with 5.2Mt @ 1.29% Indicated)
EXPLORATION TARGET	22 to 26 Mt @ 0.8 to 1.5% Li ₂ O
DRILLING	74,667m
STAGE	Pre-Development
EXPECTED FIRST PRODUCTION	2025



SEYMOUR

Central processing facility located at Seymour

Potential to add satellite pits from the Junior and Falcon projects

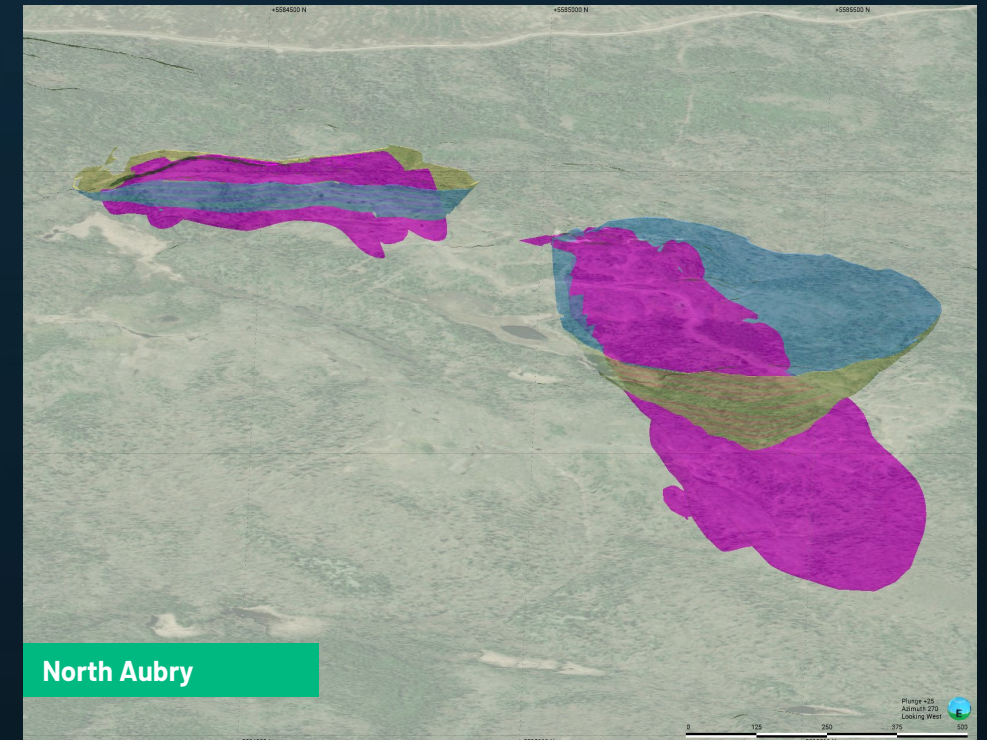
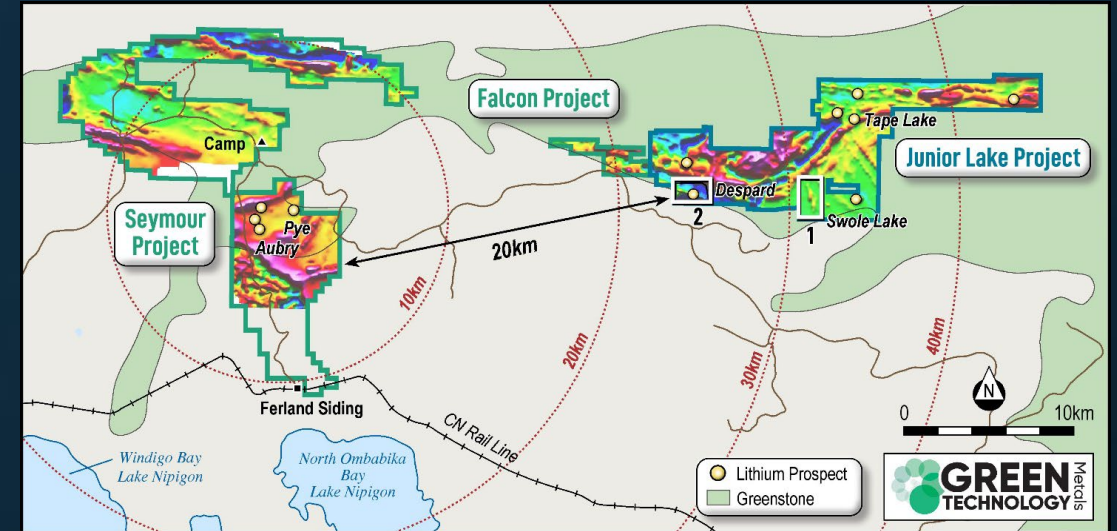
Mineral Resource

- Increased geological confidence with +50% in the Indicated category
- 7736m infill drilling program underway to increase mineral resource confidence

Exploration upside

Exploration coverage to date has been predominately around Aubry complex, leaving the vast majority of the project as exploration upside:

- North Aubry UG potential
- South Seymour unexplored
- Further exploration west of the Aubry Complex
- Northern Seymour geochemical exploration due to glacial cover
- Junior tenements recently acquired within circa 20kms



GREEN LITHIUM PRODUCTION IN CANADA



Minimal environmental impact – small operation

Designed with minimal ground impact

- Minimised footprint - only~500ha
- 2 open pits – staged North and South Aubry
- Dry stacked tailings



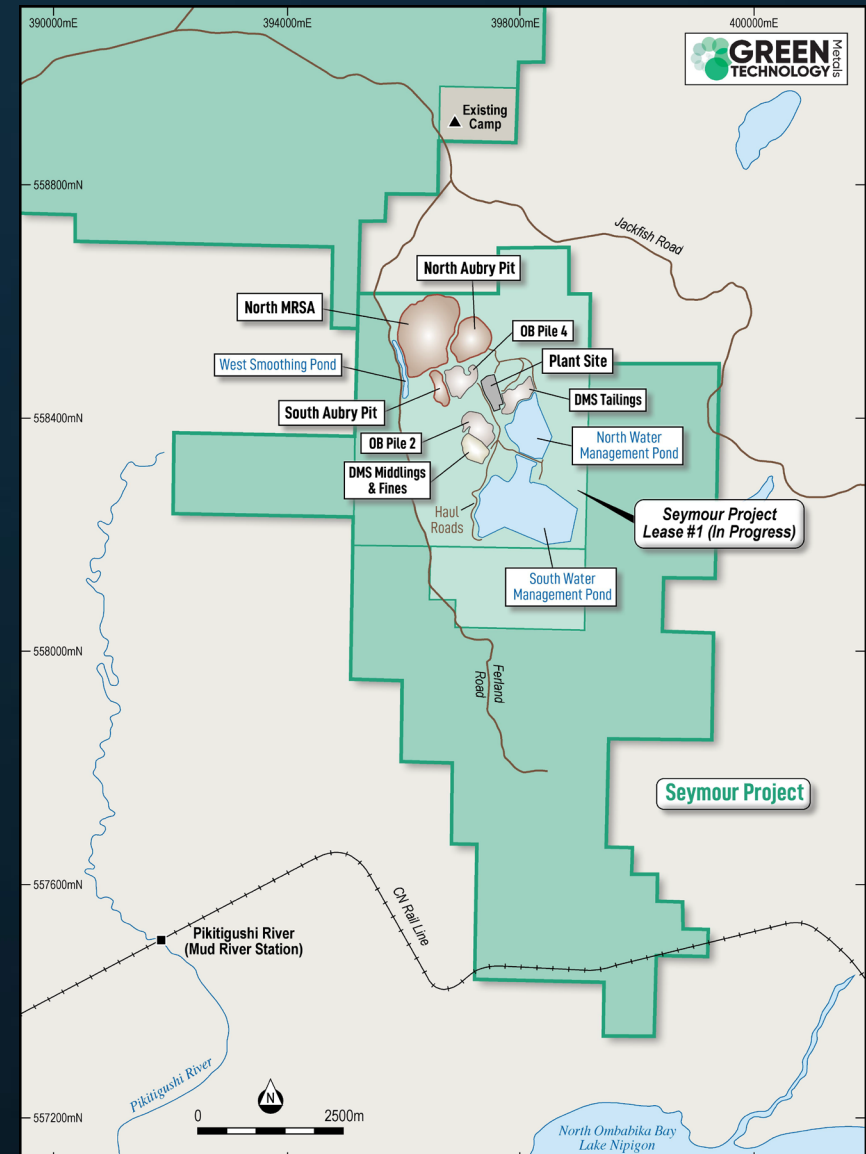
No chemicals in processing

DMS only concentrator – NO CHEMICAL REAGENTS USED



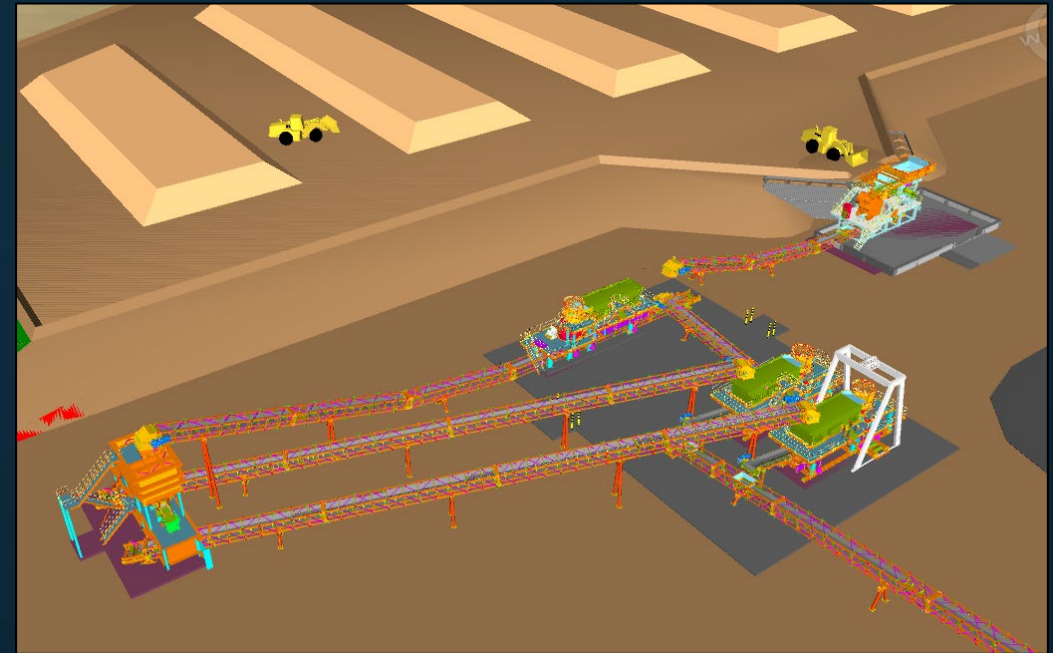
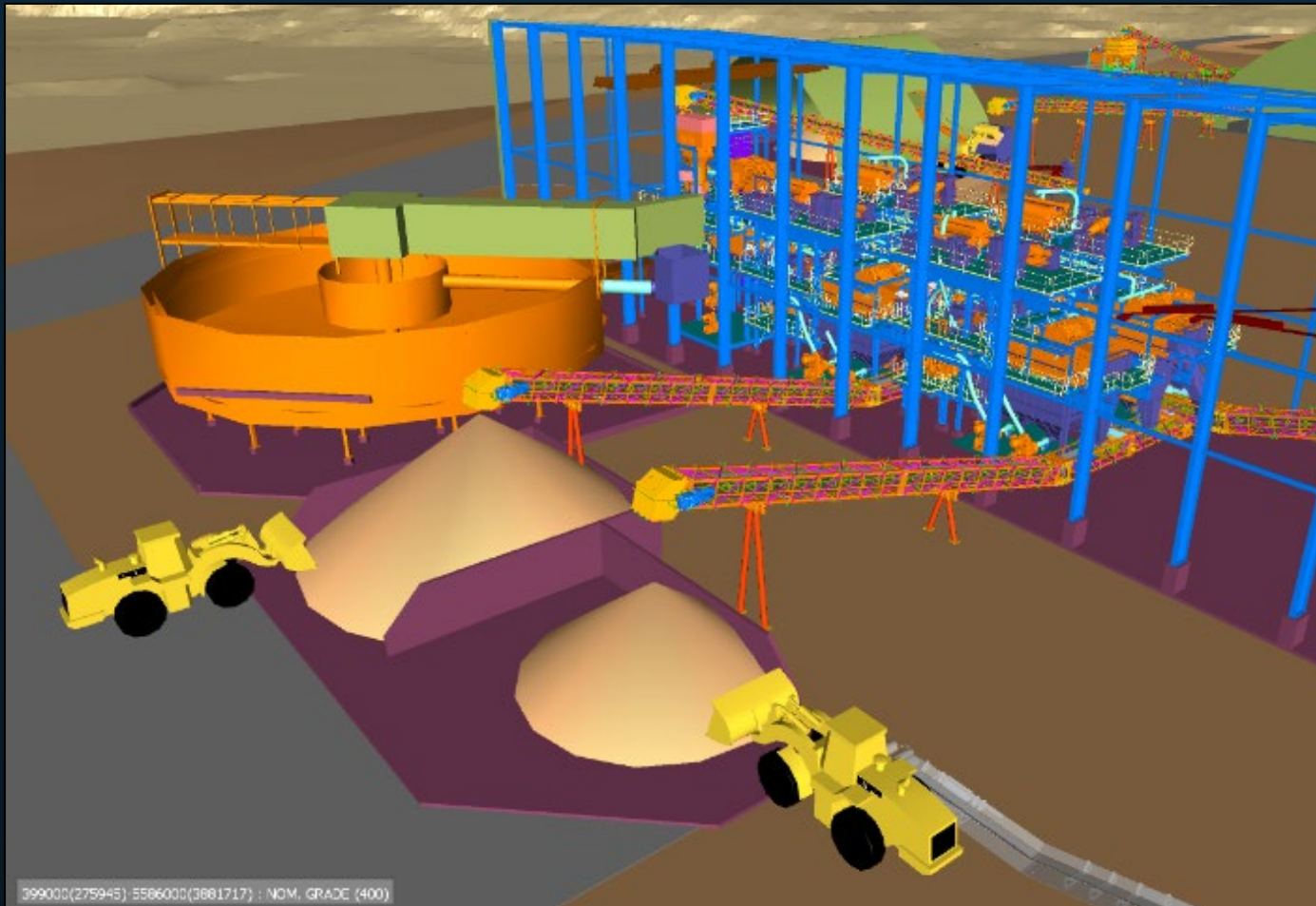
Zero Water Discharge

For life of mine: water is stored without any runoff into the surrounding environment until it is treated and pumped to back into the mine pits, with land revegetated



SEYMOUR PROJECT - Progress

Plant layout and sections



PERMITTING SCHEDULE

2021 - 2022

- ✓ Baseline data collection
- ✓ Indigenous consultation
- ✓ Technical studies & engineering
- ✓ Pre-submission consultation with government agencies

2023

- ✓ 3 years of baseline data completed
- ✓ Project design completed to support permit applications
- Submit permit applications
- Indigenous consultation - In progress
- Public Consultation - Underway
- MNRF Class EA (RSFD)

2024

- Obtain permits
- Lease claims
- Timber clearing
- Commence construction
- On-going consultation
- On-going monitoring



TESTWORK – Concentrator

Conventional mining processes utilising industry expertise

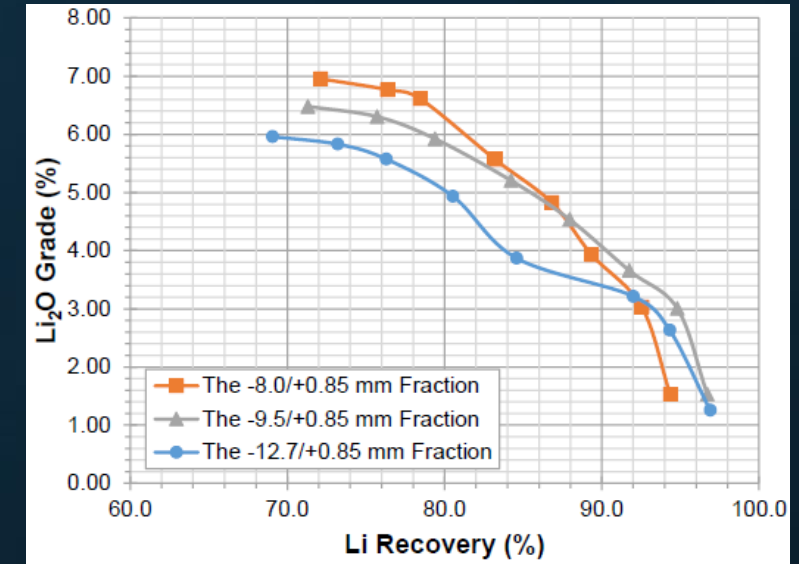
Seymour – Very coarse, clean in nature – Spodumene

HLS

- Completed – Achieved a 72% recovery.
- Demonstrating Seymour’s coarse grain spodumene is amenable to DMS.
- Opportunity for further optimisation on liberation/size fractions and DMS processing methods.

DMS – Pilot Program

- Program is completed with results due in October
- Ore taken from multiple parts of ore body to present a representative sample of ore variability for Seymour Definitive Feasibility Study mid 2024
- 100t bulk sample taken – piloting to commence in new year to produce 10t of concentrate



Seymour HLS – Grade/Recovery curve



HLS on master composite - crush size 8 mm			Grade		Distribution	
Description	HLS SG	Mass Distribution	% Li ₂ O	% Fe ₂ O ₃	Li ₂ O	Fe ₂ O ₃
HLS non-mag ¹ product	2.82	12.7	6.0	1.2	72.6	19.2
HLS mag ¹ product	2.82	3.6	1.3	9.1	4.5	34.7
HLS tailings	-2.65	46.7	0.0	0.2	2.0	9.3
Flotation feed (fines and middlings)	-	37.0	0.6	0.9	20.9	36.9
Total feed	-	100	1.1	0.9	100	100

¹ Dry magnetic separator used for HLS testwork

Seymour HLS – 8mm size fraction results

1. See announcement “Course Spodumene Produced at Seymour”, 22 December 2022

JUNIOR LITHIUM PROJECT

Potential to significantly add to Eastern-hub resource base

LCT spodumene-bearing pegmatites

measuring up to 40 meters in length and approximately 6 meters in width surface exposure

Significant lithia grade up to 3.23% Li₂O

returned from rock chip samples

Proven grade and multiple occurrences

with the potential to significantly add to GT1's eastern-hub resource base

Similar magnetic signatures to Root Bay

indicating the likelihood of stacked pegmatites or a potentially fertile intrusive system

Sample	Name	E	N	Type	Li ₂ O %
F713162	Despard	422507	5586337	Float	3.23
F713124	Despard	422504	5586341	Outcrop	2.56
F712692	Tape Ridge Peg	433191	5591393	Outcrop	2.97
F712769	Tape Ridge Peg	433193	5591392	Float	2.67
F712693	Tape Ridge Peg	433192	5591389	Outcrop	2.11



Despard surface outcrop with Spodumene crystals in pegmatite mass (Easting 422504, Northing 5586341)

Stage 2: CONVERSION FACILITY

OWNERSHIP	Under option
AREA	25 Hectares
STAGE	Preliminary Economic Assessment
PRODUCTION	2028



CONVERSION FACILITY

Stage 1 – proposed circa 20-25 kt capacity

Stage 2 – plant/site layout confirmed for additional train

Proposed Alkali leach flow sheet – analcime by-product that can be treated and potentially used for civil/fill applications. Flow sheet currently being implemented on projects globally – specifically Tesla (Texas Hydroxide Facility), Keliber (Finland) & Piedmont (Tennessee Lithium)

550 Shipyard Drive undergoing full due diligence

- Optioned property, strategically positioned industrial land
- Environmental studies assessments well underway

Ongoing Government meetings for funding and permitting

- C\$1.5B available for critical minerals downstream processing through SIF

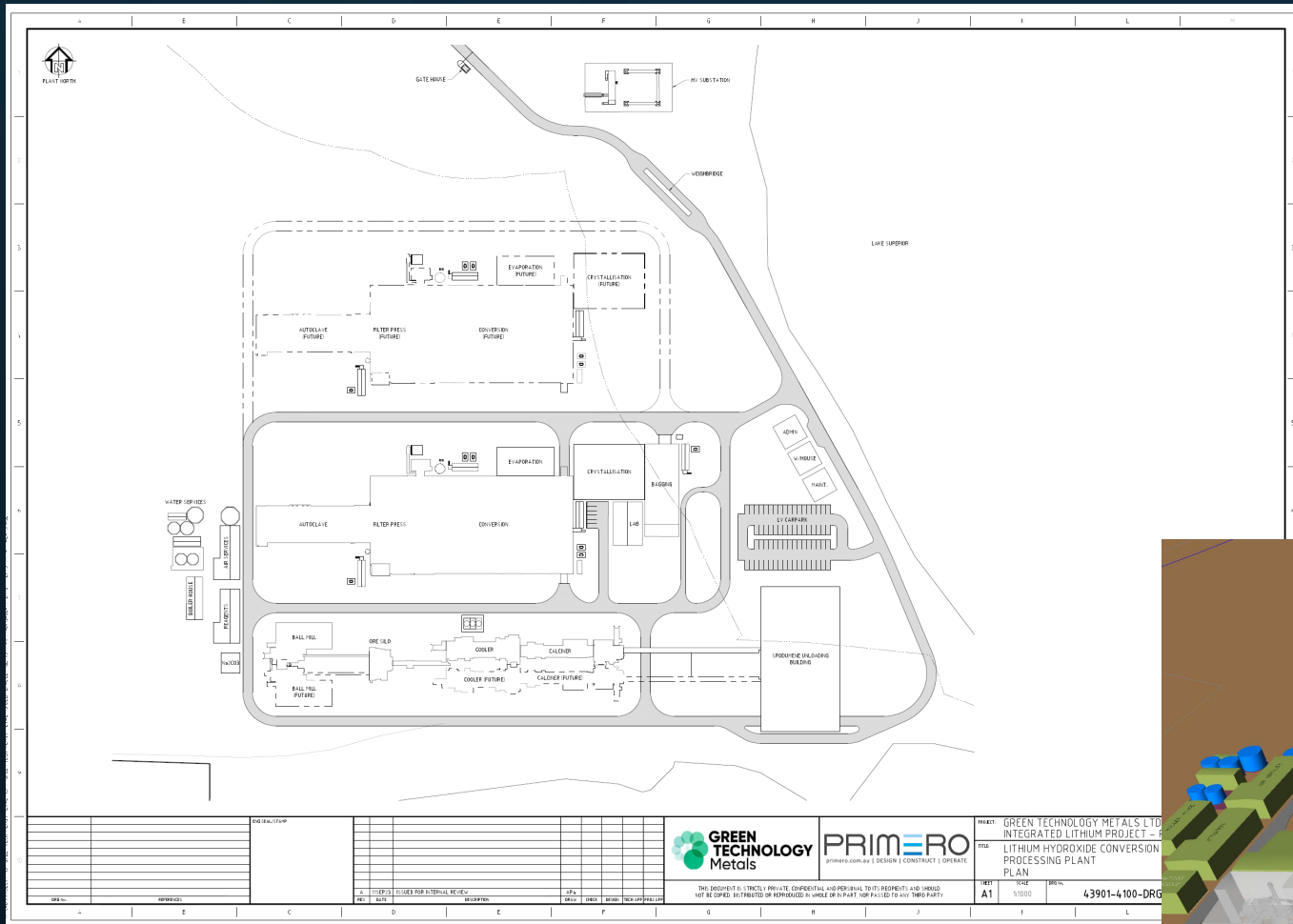
Strategic Innovation Funding (SIF) applications lodged for assessment and supported by LGES

Conversion test work advancing

- Concentrate sample complete and shipped to FLS Pyro Utah, USA
- Bench scale Conversion to Lithium Hydroxide test work underway



CONVERSION FACILITY



- **Initial emissions studies underway** – complete Oct 23
- **Geotechnical investigation** - work commenced
- **Serviced site** – power, natural gas, water and municipal sewer.
- **Grid power** – Hydropower connection 115kV line adjacent to the property
- **Port and rail access within 2kms** - module/delivery for construction access from US.
- **Truck access for delivery of concentrate** – main highway not disturbing local traffic



Stage 3: WESTERN HUB

OWNERSHIP	100% Owned
AREA	23,095 Hectares
RESOURCE (Current)	12.6Mt @ 1.21% Li ₂ O
EXPLORATION TARGET	20-24Mt @ 0.8 to 1.5% Li ₂ O
DRILLING	42,000m
STAGE	Preliminary Economic Assessment
EXPECTED FIRST PRODUCTION	2028/9



WESTERN HUB

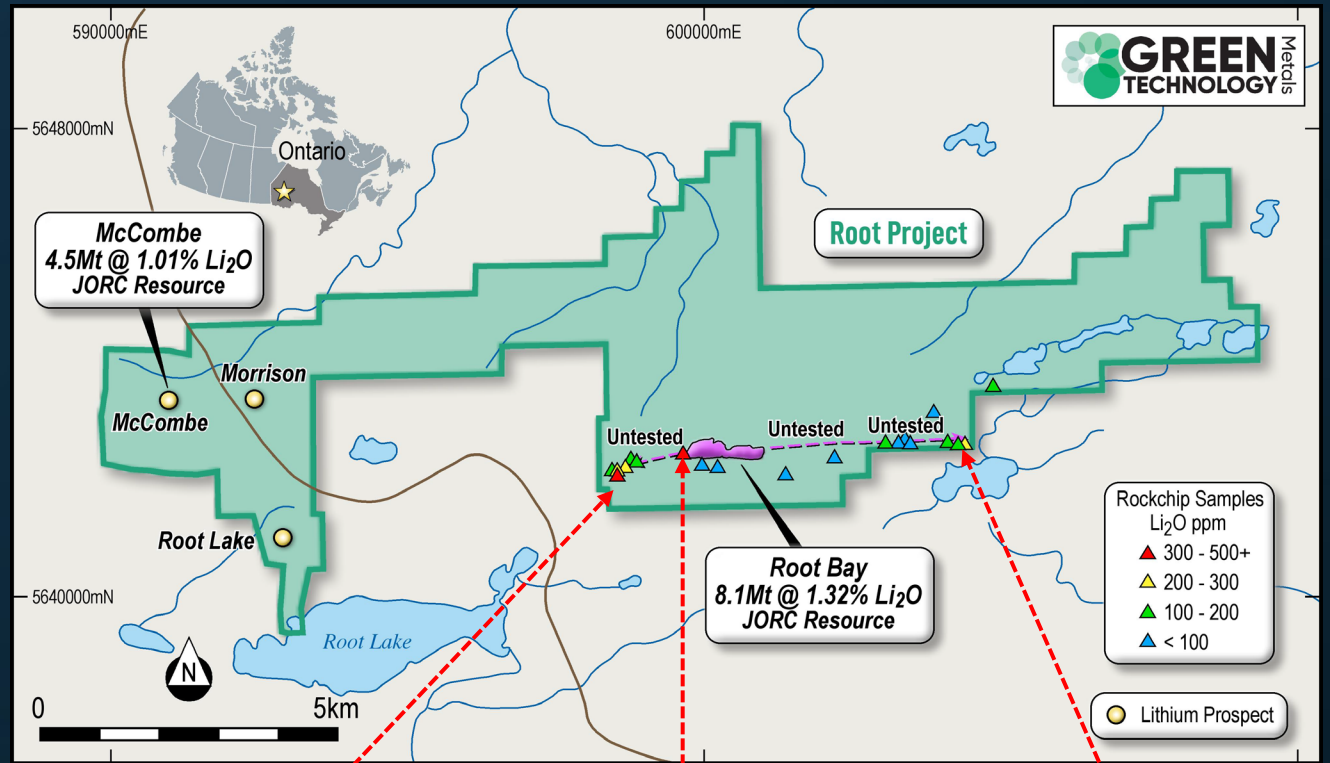
Root Bay

Excavation

The original Root Bay outcrop was only exposed when the local forestry came through and cleared roads and trees. GT1 teams have been successfully trenching the ridge and exposing LCT pegmatites East and West of the original find.

Exploration

Geologists have been logging and sampling numerous occurrences along the ridge with visual Spodumene, creating numerous follow up drill targets.



ROOT BAY – Deep Potential

Root Bay

Thickness

The stacked pegmatites within the Root Bay area progressively get thicker from East to West with Pegmatite #6 on the west averaging 18m thickness.

Depth

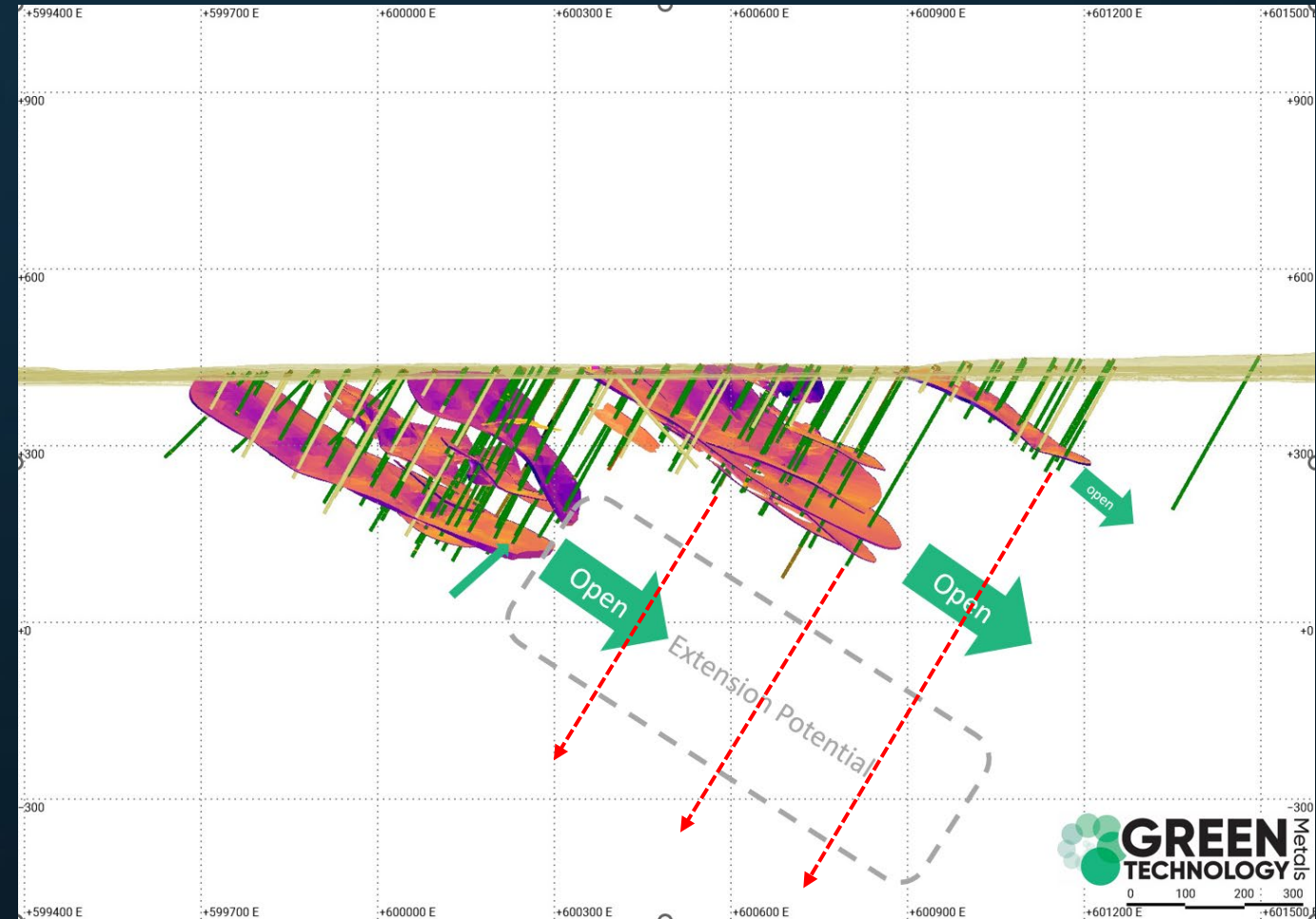
All of the pegmatites are open at depth with the capability to extend further. Pegmatite #6 is consistently thick and higher grade down dip, adding to the potential for an underground operation.

Convergence

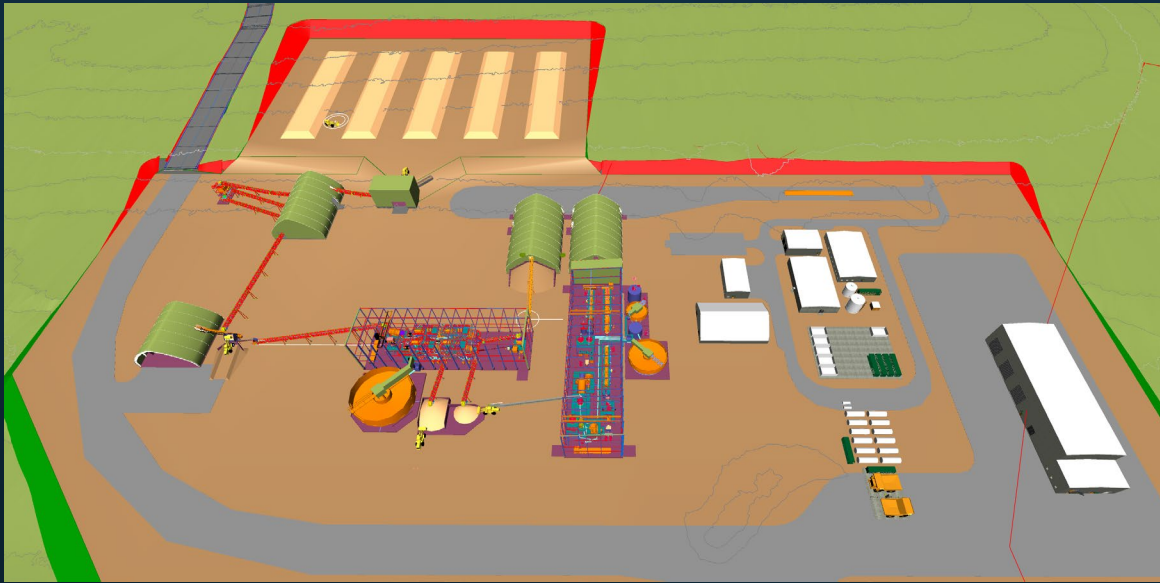
Potential to find the 'feeder zone' with further testing along strike and at depth. Being a stacked system there is potential with many similar global examples where the pegmatites converge towards a central feeder zone hosting bonanza grades and thickness.

Testing

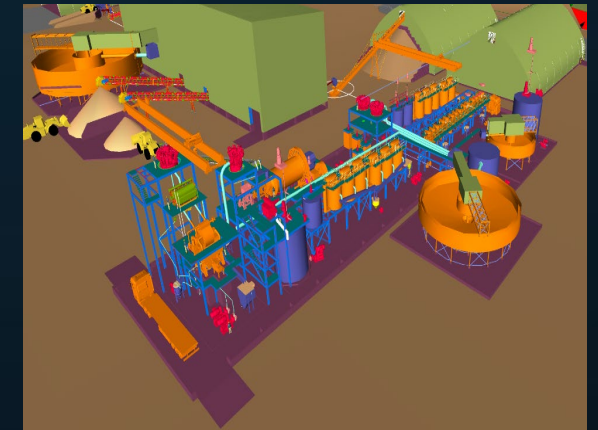
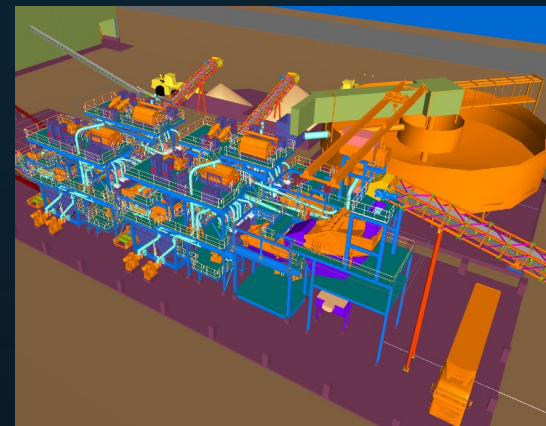
Diamond drilling has already commenced by extending previously drilled holes and targeting down dip resource extensions to significantly increase tonnage within the economic boundaries of Open Pit and Underground scenarios.



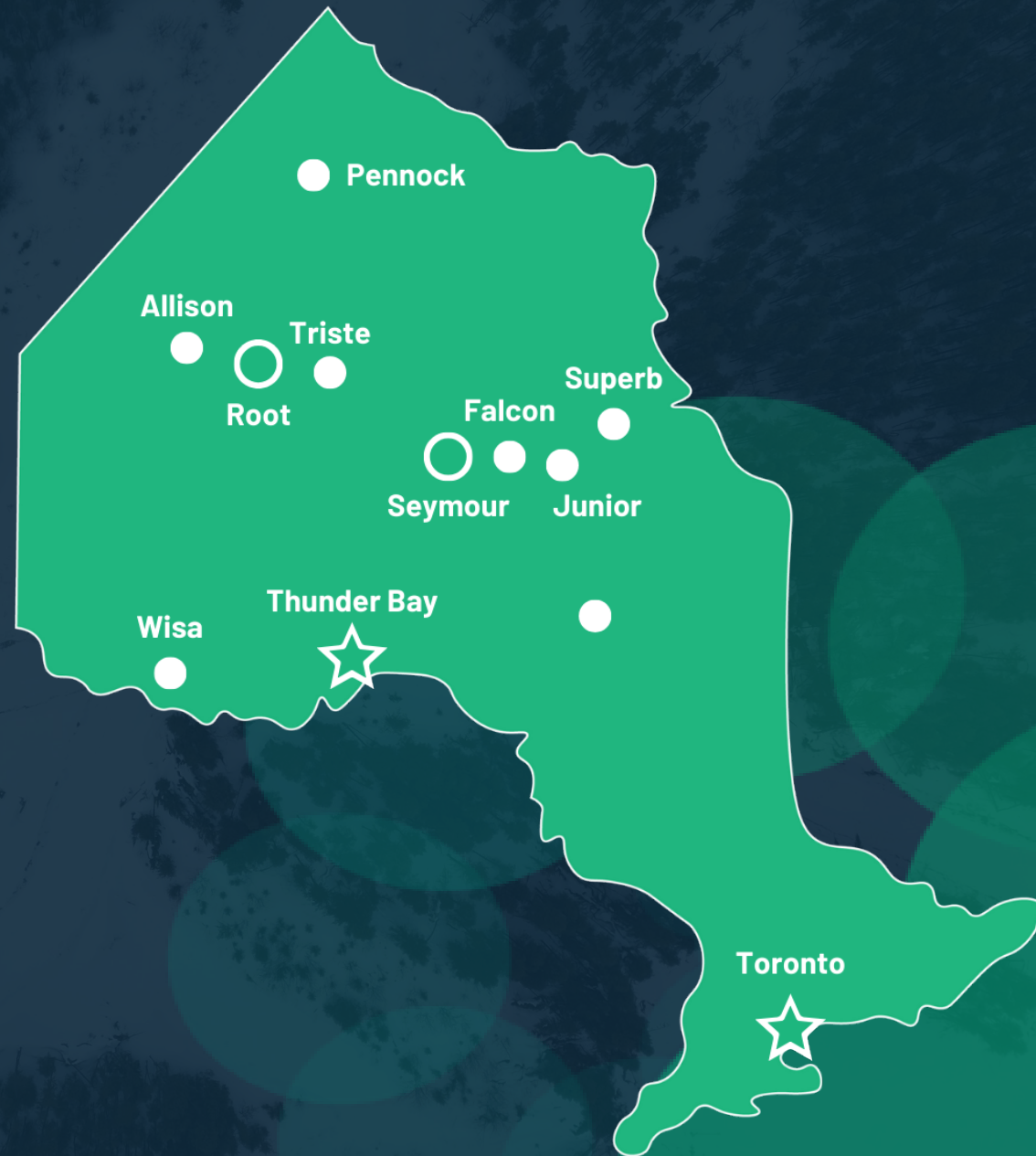
ROOT PROJECT – Plant layout & sections



- High grade – finer grained spodumene however still coarse against benchmarks
- Hybrid DMS/Flotation concentrator envisaged – better recoveries
- Proposed standard Tailings Storage Facility (TSF)
- Standard permitting timelines – federal permits most likely required
- Potential for upsizing mill throughput
- Hydro power – 132kV with 2 kms of facility



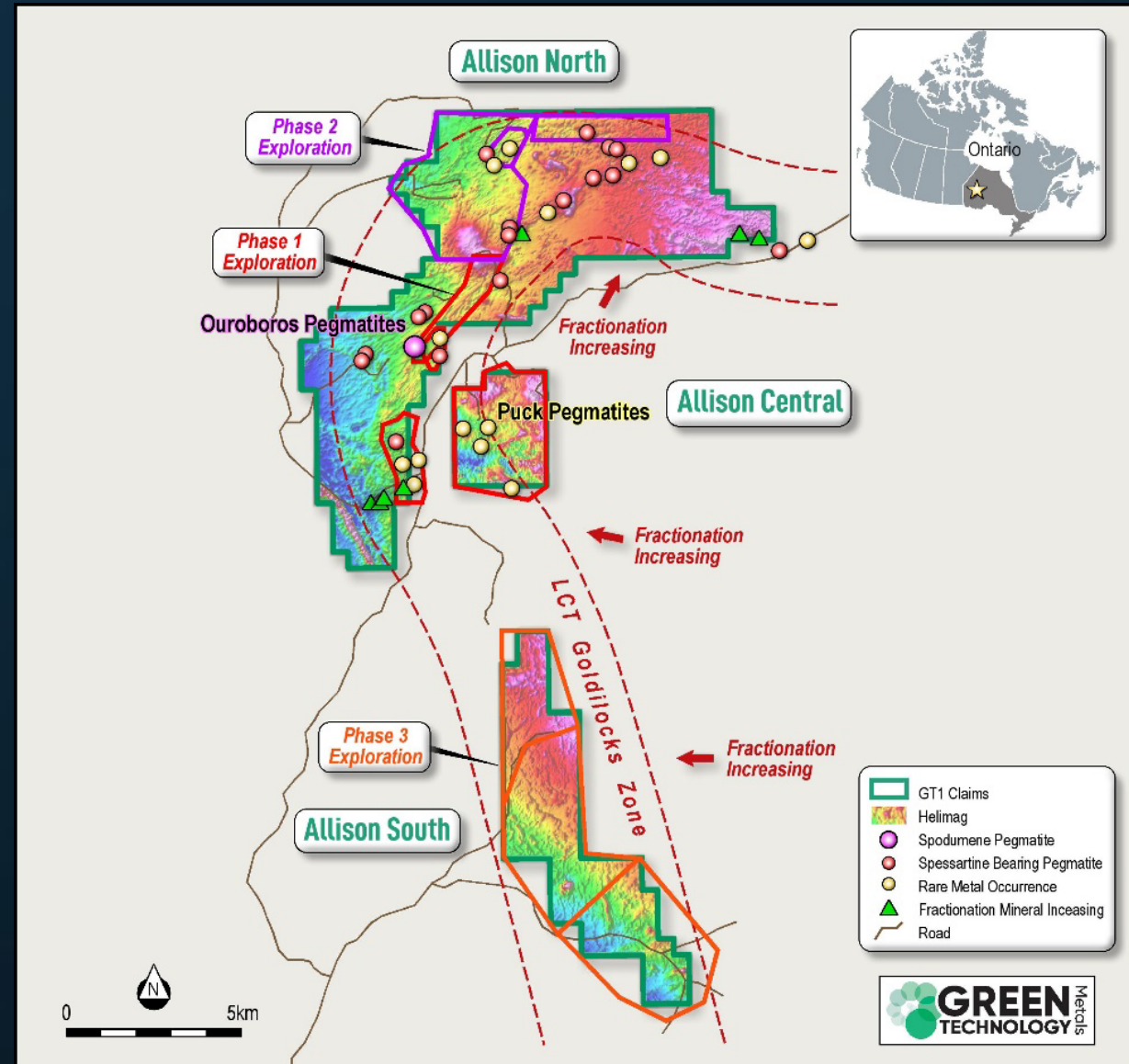
Stage 3: ADDITIONAL PROJECTS



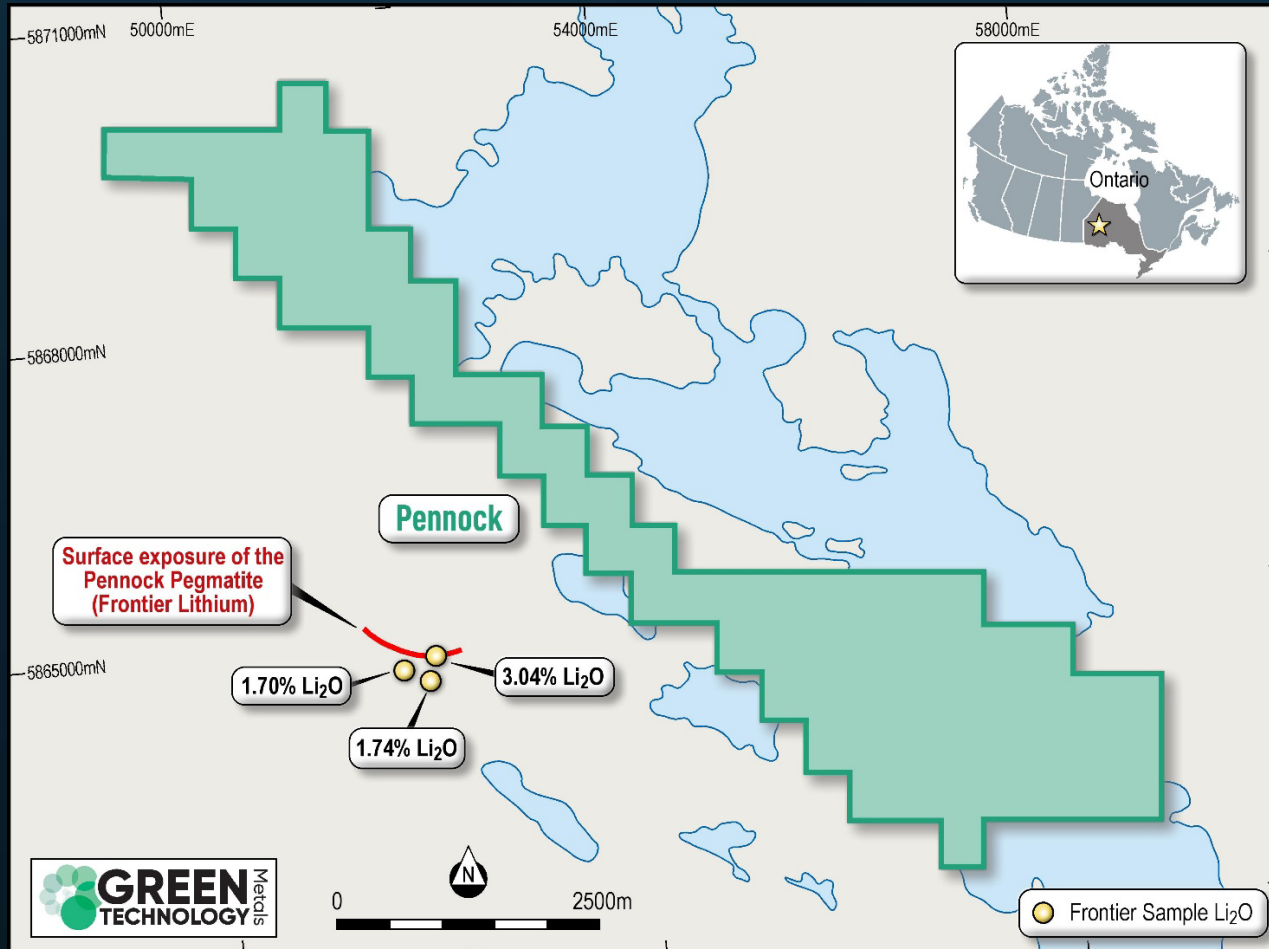
ALLISON

AREA	9,444 Hectares
STAGE	Exploration

- Located 42km from the Root Lithium Project and easily accessible by road
- Believed to be the source of LCT pegmatite occurrences in the region
- 3 claim blocks; North, Central and South lie on the edge of a fertile granite believed to be the source of LCT pegmatite occurrences in the region
- Largest documented intrusive system in Ontario prospective for LCT pegmatites and remains relatively untested, prospective for further discoveries
- Multi-phase exploration will continue over the next quarter to identify potential drill targets



PENNOCK



AREA	1389 Hectares
STAGE	Exploration

An extensive reconnaissance program is underway over the entire Pennock project.

Pennock is located adjacent to Frontier Lithium's Pennock Pegmatite, that has a 30x16m spodumene-bearing outcrop with results from Frontiers channel sample B00192364 averaging 2.97% Li₂O

This outcrop is visible in satellite imagery and shows a general sweeping trend towards GT1's Pennock property

WHAT IS NEXT?

- **Root Bay MRE update & further drilling**
- **Seymour DMS Test work results – October**
- **Conversion Test work – Q4 2023 & ongoing**
- **Integrated PEA – Q4 2023**
- **Junior maiden drilling program – Q1 2024**
- **Seymour MRE update**
- **Finalisation of partnering process for downstream**
- **DFS: Seymour Mine and Concentrator – Q2 2024**
- **Seymour – Financial Investment decision**
- **PFS: Lithium Conversion Facility – Q4 2024**



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ASX **GT1**



APPENDIX | MINERAL RESOURCE ESTIMATE

Project	Tonnes (Mt)	Li ₂ O (%)	Ta ₂ O ₅ (ppm)
Root Project			
<i>Root Bay</i>			
Inferred	8.1	1.32	35
<i>McCombe</i>			
Inferred	4.5	1.01	110
Total	12.6	1.21	62
Seymour Project¹			
<i>North Aubry</i>			
Indicated	5.2	1.29	161
Inferred	2.6	0.90	120
<i>South Aubry</i>			
Inferred	2.1	0.50	90
Total	9.9	1.04	137
Combined Total	22.5	1.14	95

For full details of the Seymour Mineral Resource estimate, see GT1 ASX release dated 23 June 2022, Interim Seymour Mineral Resource Doubles to 9.9Mt. For full details of the Root Mineral Resource estimate, see GT1 ASX release dated 7 June 2023, 22.5Mt Mineral Resource base across Ontario Lithium Projects. The Company confirms that it is not aware of any new information or data that materially affects the information in that release and that the material assumptions and technical parameters underpinning this estimate continue to apply and have not materially changed.



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No New Information: The information in this release that relates to Mineral Resource Estimates for the Ontario Lithium Projects was released on the ASX dated 23 June 2022, "Interim Seymour Mineral Resource Doubles" 19 April 2023, "GT1 Mineral Resources Increased to 14.4MT" and 7 June 2023, 22.5Mt Mineral Resource base across Ontario Lithium Projects. The Company confirms that it is not aware of any new information or data that materially affects the information in the releases and that the material assumptions and technical parameters underpinning these estimates continue to apply and have not materially changed.



APPENDIX | COMPETENT PERSONS STATEMENT

The information in this Presentation that relates to the Exploration Results 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 Company confirms there have been no material changes to exploration results since first reported in accordance with Listing Rule 5.7.

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 Junior & Wisa) host lithium bearing pegmatites which sit within the fractionated 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 and Root JORC Resource hosted Inferred grades ranging from 0.8 to 1.5% Li_2O , this has been used for the Exploration Targets

Exploration Activities

Exploration targets are planned to be tested by field mapping and drilling over the next 36 months

