



**JAMES BAY**  
MINERALS

# Resources Rising Stars – Summer Series

ASX Code: JBY

Sydney - 14 November 2023

Melbourne – 16 November 2023

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## **Competent Person Statement**

*The information in this Presentation that relates to Exploration Results at the La Grande and Troilus Projects is extracted from the Company’s Prospectus dated 19 July 2023 (**Prospectus**) and the following ASX announcements (**Original Announcements**):*

- 1. Extensive field of fractionated pegmatite dykes discovered over 3km in length at the Aero Property – James Bay, Canada, dated 5 October 2023;*
- 2. Multiple large outcropping pegmatite dykes identified at Aqua Property - James Bay, Canada, dated 8 October 2023;*
- 3. Spodumene discovered at Aero Property – James Bay, Canada, dated 31 October 2023;*
- 4. Second field of fractionated pegmatite dykes discovered at the Aero Property – James Bay, Canada 2 November 2023;*
- 5. James Bay strategically increases its La Grande Project area by 70% to 30,168 hectares (302km<sup>2</sup>) – James Bay, Canada 8 November 2023*

*The Company confirms that it is not aware of any new information or data that materially affects the information contained in the Prospectus and Original Announcements.*

# Company Snapshot



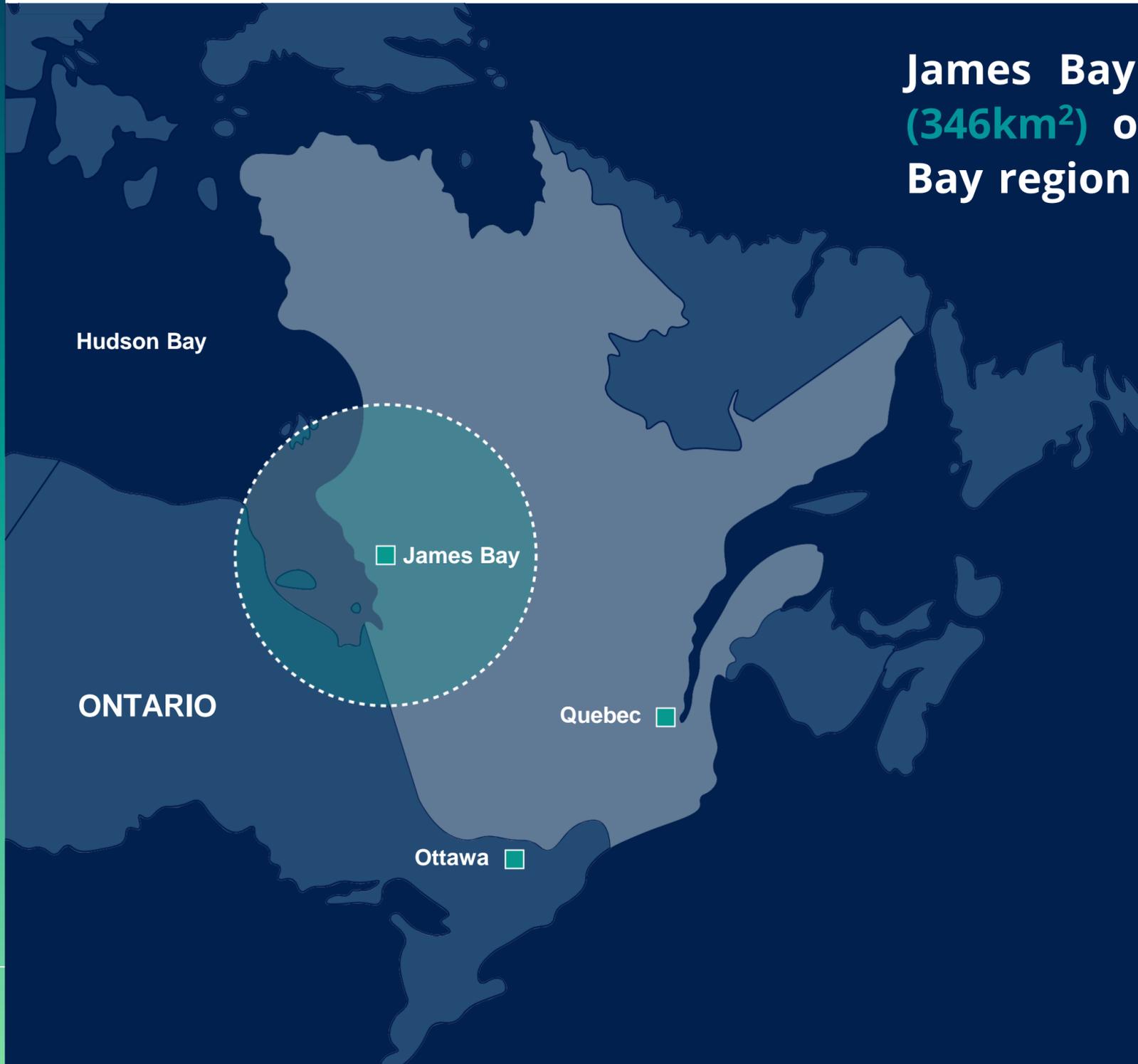
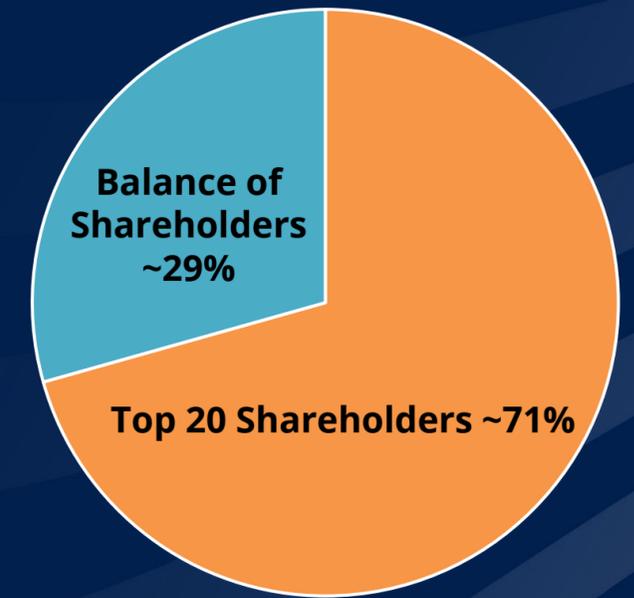
James Bay Minerals owns 100% interest in **34,572 Ha (346km<sup>2</sup>)** of prospective lithium projects within the James Bay region of Quebec.

## Corporate Summary

Shares on Issue  
**60,500,000**

Share price (Close Price 13/11/23)  
**\$0.32**

Market Capitalisation  
**\$19,360,000**



# Company Highlights



**Spodumene discovered<sup>1</sup>**



**Canadian focused, lithium Explorer**



**One of the largest landholdings on the La Grande Lithium Trend ~55km**



**James Bay rivals the Pilbara**

1. ASX Announcement "Spodumene discovered at Aero Property", dated 31 October 2023.

# Board of Directors



**Andrew Dornan**  
Executive Director

18 years senior commercial management experience within various major and mid-tier international mining organisations including Pilbara Minerals, Tianqi Lithium, Fortescue Metals Group, Newmont and Rio Tinto.



**Gerard O'Donovan**  
Non-Executive Chair

Managing Director of Battery Age Minerals, based in Ontario, Canada. Served as the project manager for Pilbara Minerals, overseeing the development of the Stage 1 Pilgangoora mine & concentrator development. Integration manager for PLS of Altura Operations after acquisition.



**Judy Baker**  
Non-Executive Director

8-year Director of Nemaska Lithium Quebec, which developed the largest Spodumene deposit in North America. Founder of Lithium Canada Corporation. Geologist, Engineer, MBA with strong Capital markets experience.



**Dean Ercegovic**  
Non-Executive Director

Founding Director and Chief Operating Officer of Primero Group where he spent over 11 years. Primero now operates in multiple regions globally (including Quebec) and is an industry leader in the design, construction and operations of Lithium processing facilities.

# Senior Management



**Mark Fekete**  
Senior Geology Consultant

30-year experienced geologist based in Quebec, fluent in French. Strong existing relationships with local exploration community and first nations suppliers.



**Marty Huber**  
Senior Geology Consultant

20-year experienced geologist based in Quebec, with key experience across Lithium, base & precious metals projects.



**Daniel Loughnan**  
Chief Financial Officer

20 years experienced Accountant (CPA). Director of Danpalo Group an accounting consultant to a number various listed ASX Companies.



**James Doyle**  
Company Secretary

Experienced company secretary and corporate advisor with over 15 years' experience advising public and private companies across a range of sectors.



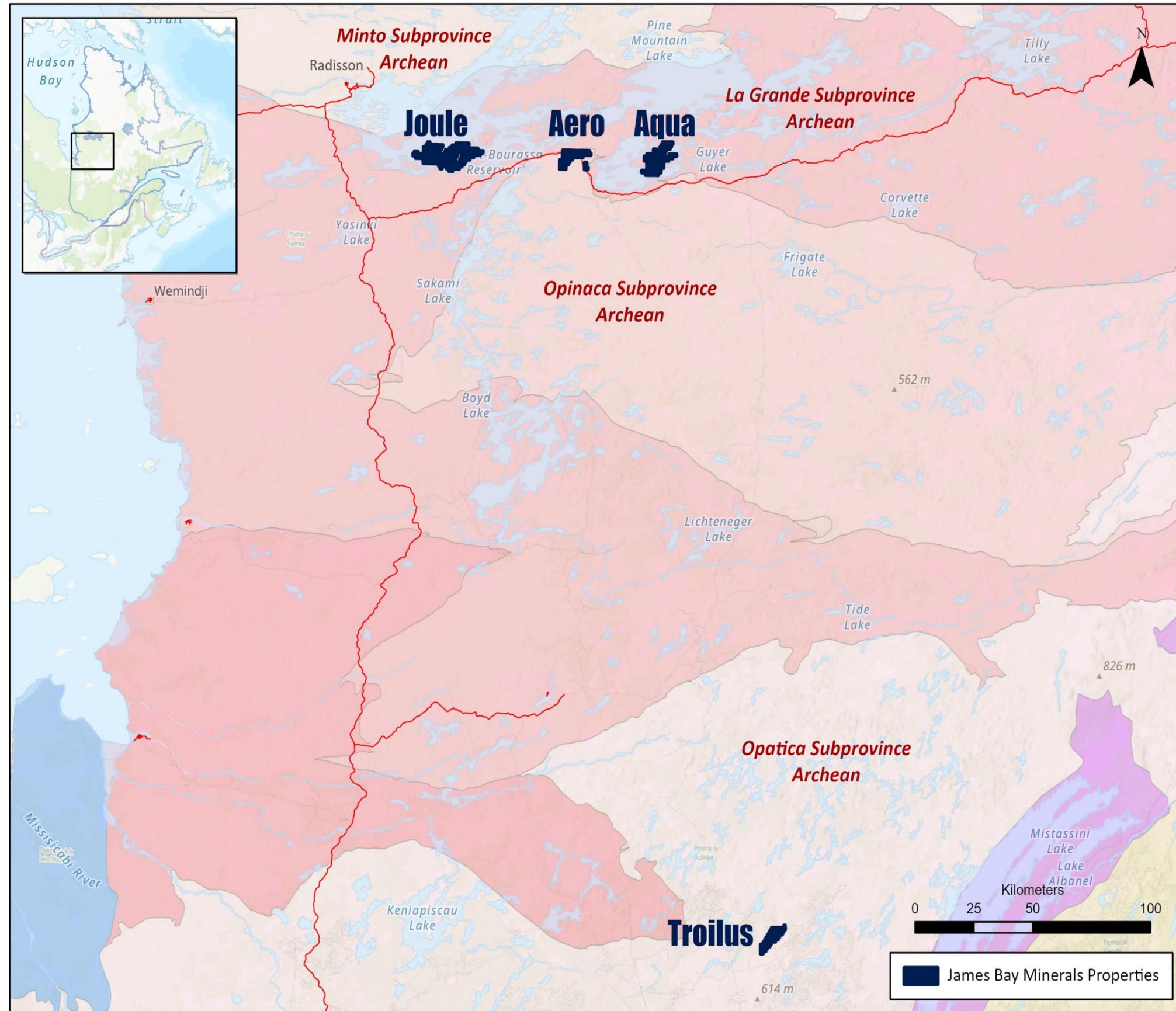
**Matthew Hayes**  
Corporate Development

Founding CEO of Raisebook, Stocks Digitals capital raising arm and founding director of Wagtail Capital.

# Our Properties

## 3 Key Ingredients for LCT Pegmatites

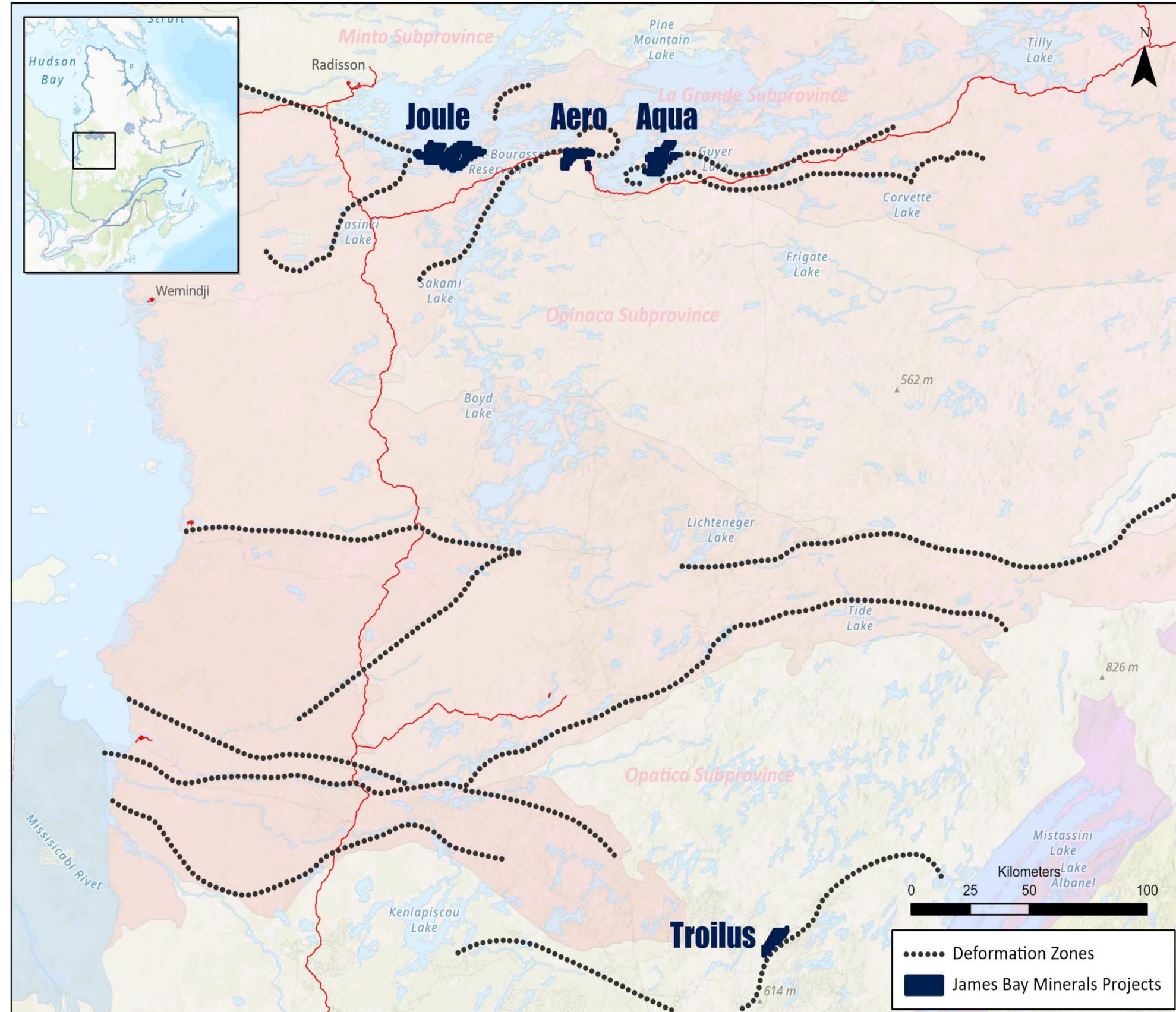
- All the properties sit within Neo-Archean rocks



# Deformation Zones

## 3 Key Ingredients for LCT Pegmatites

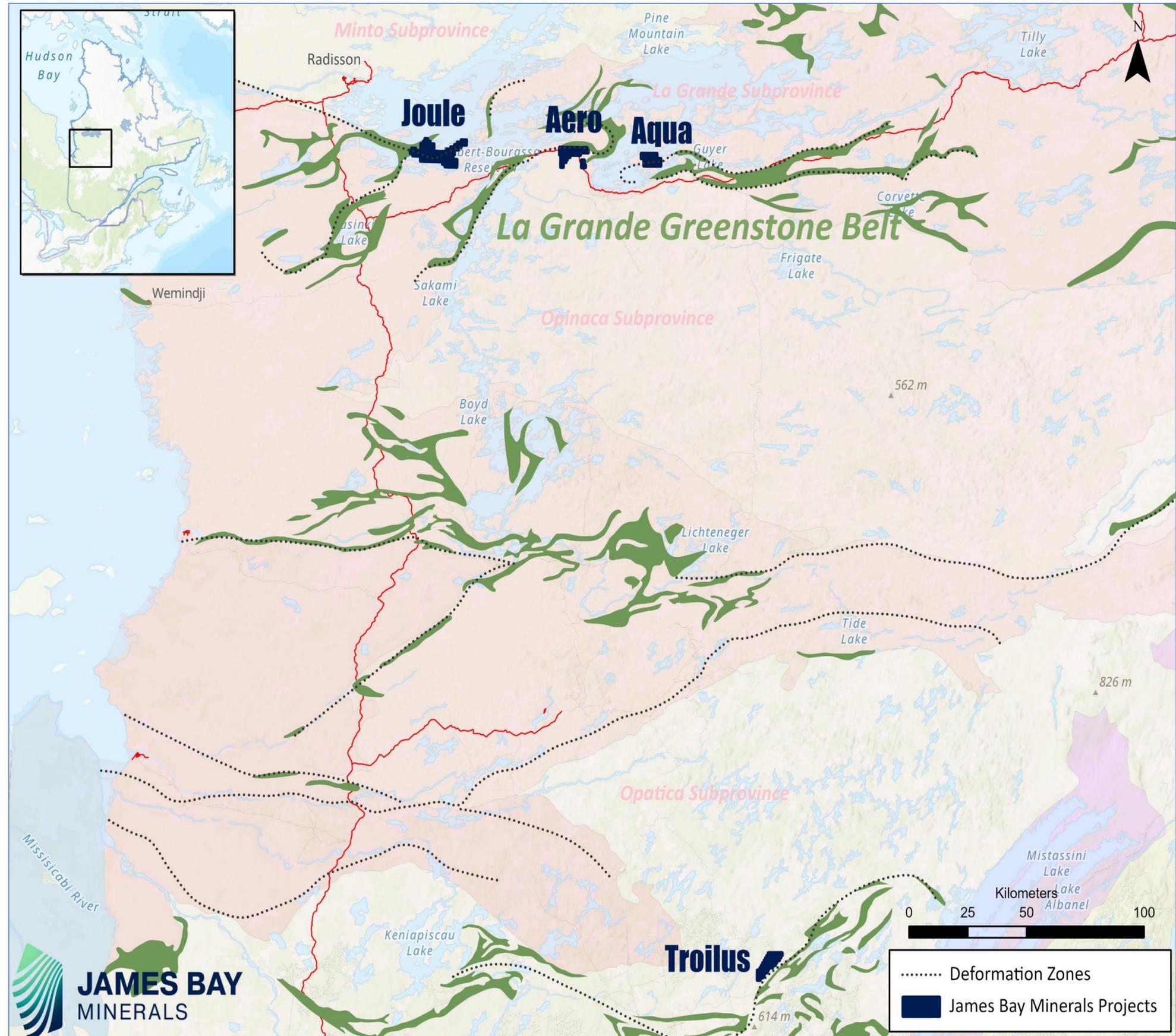
- Neo-Archean rocks
- Major regional faults  
with wide deformation  
zones up to 1km across



# Greenstones Belts

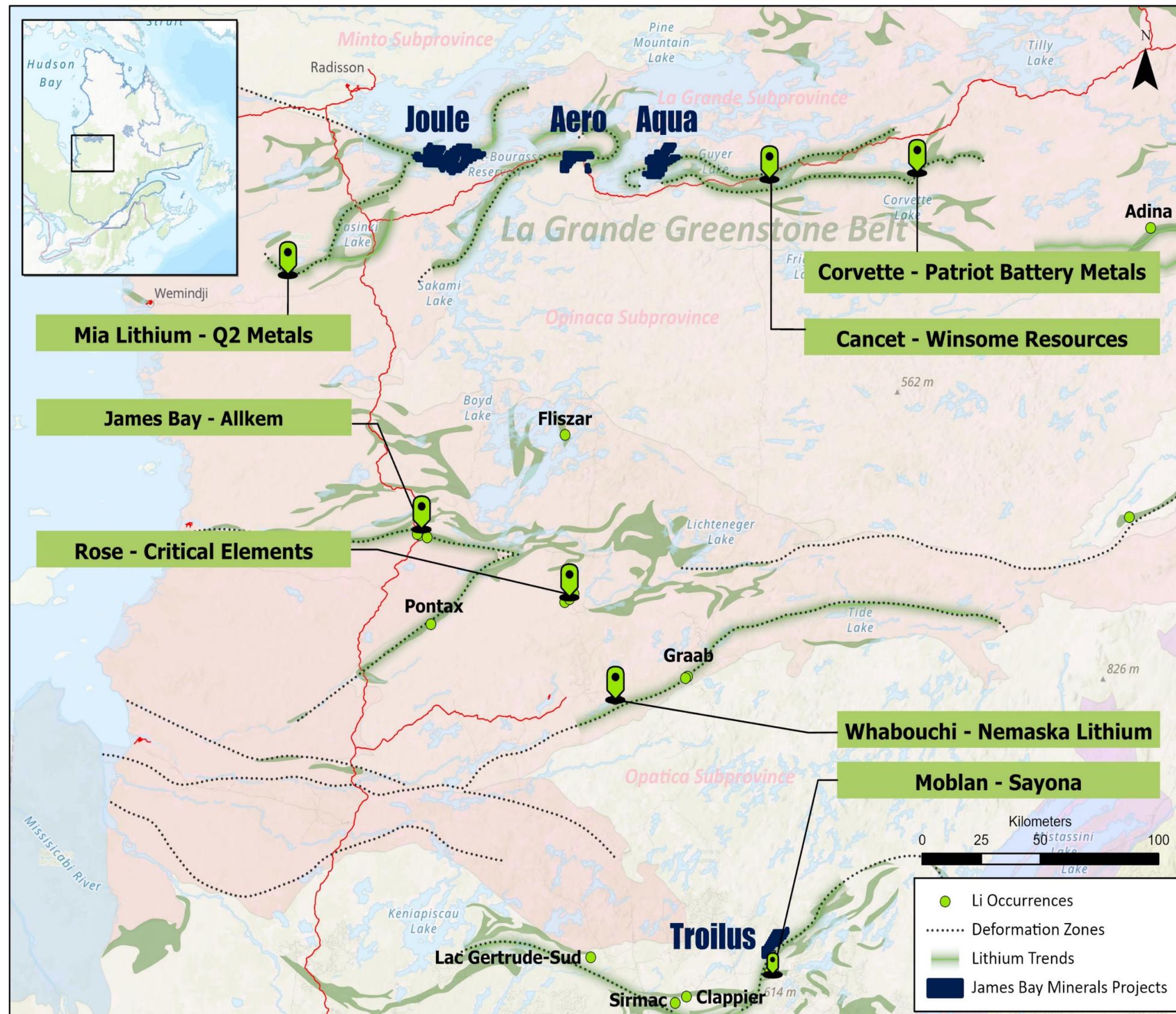
## 3 Key Ingredients for LCT Pegmatites

- Neo-Archean rocks
- Major regional faults with widths up to 1km plus wide
- Greenstone belts in proximity to S-type granites



# Location of Major Deposits

Northern properties sit on La Grande Greenstone belt, James Bay region, Quebec. Hosts the largest lithium discoveries of the past few years.

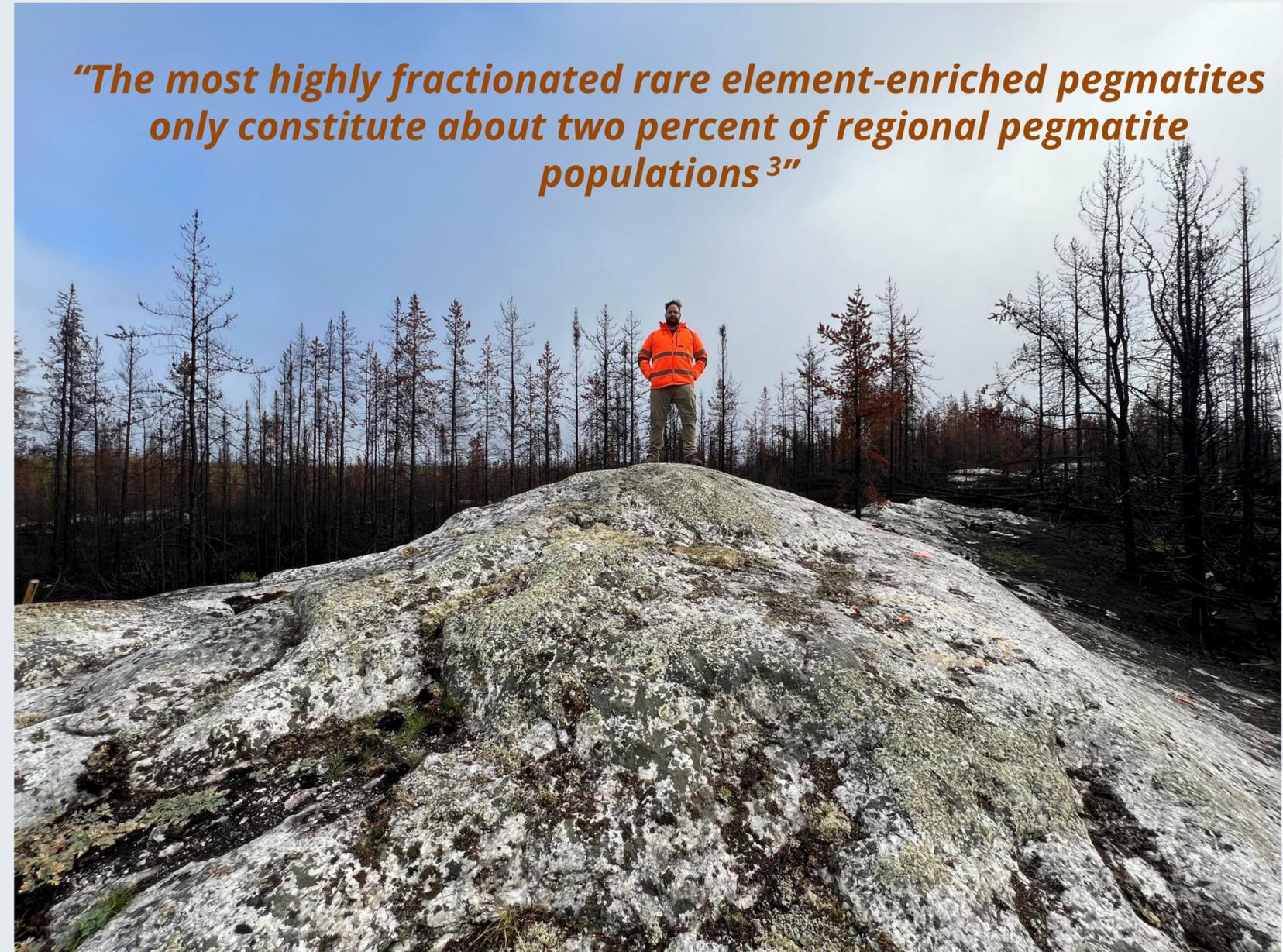


# Two fields of Fractionated Pegmatites - Aero Property<sup>1 2</sup>



- **Thirty-One fractionated pegmatites.**
- **Pegmatites up to ~590m long and ~30m wide.**
- **Field One corridor ~3km east to west and ~350 north to south.**
- **Field Two corridor ~1.5km east to west and ~500m north to south.**

*"The most highly fractionated rare element-enriched pegmatites only constitute about two percent of regional pegmatite populations<sup>3</sup>"*

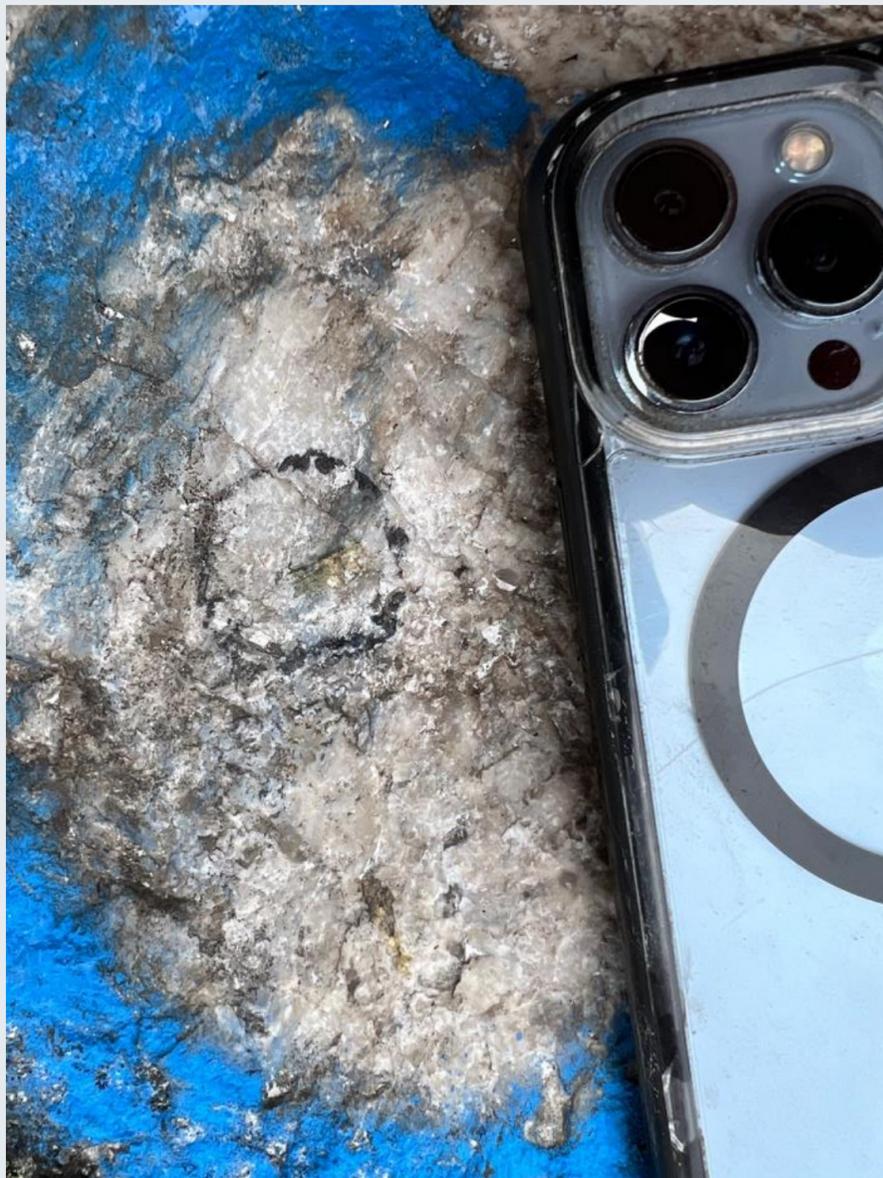


**Executive Director Andrew Dornan standing on the Hawker Pegmatite.**

1. ASX Announcement "Extensive field of fractionated pegmatite dykes discovered over 3km in length at the Aero Property – James Bay, Canada", dated 5 October 2023  
2. ASX Announcement "Second field of fractionated pegmatite dykes discovered at the Aero Property, James Bay, Canada" dated 2 November 2023  
3. USGS Science for changing a world, Mineral-Deposit Model for Lithium-Caesium-Tantalum Pegmatites Scientific Investigations Report 2010-5070-0

# Spodumene Discovered – Aero Property

Spodumene crystals observed within Warhawk outcrop<sup>1</sup>



*Figure 1 - Raw outcrop with green mineral interpreted to be spodumene.<sup>2</sup>*



*Figure 2 - Interpreted weathered green minerals interpreted as spodumene under hand lens.<sup>2</sup>*



*Figure 3 - Fresh rock channel sample from Warhawk with lithium mineralisation indicated by LIBS.<sup>2</sup>*

**Cautionary Statement:** 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.

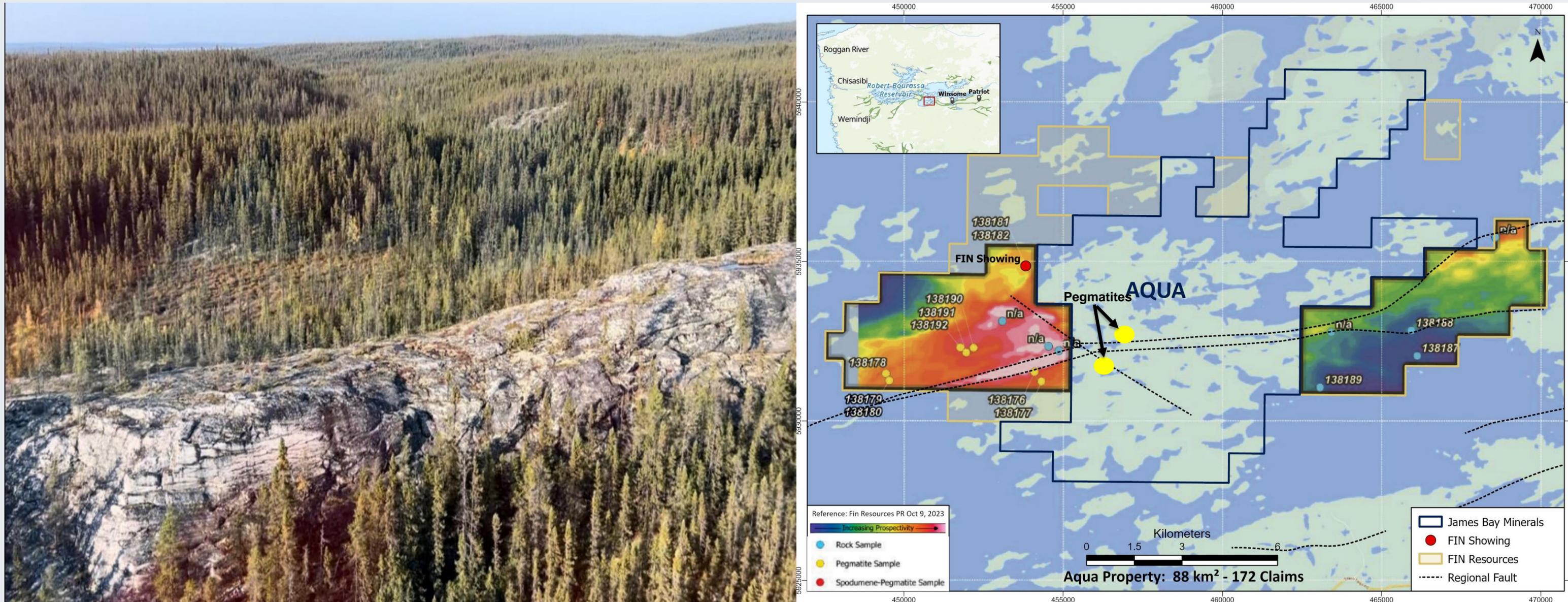
1. ASX Announcement “Spodumene discovered at Aero Property”, dated 31 October 2023
2. Refer to Appendix 1 – Visual estimates appended to end of presentation.

# La Grande Project - Aqua Property



Abundant Spodumene crystals discovered at border<sup>1</sup>

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**Pegmatite dykes running west to east (left to right of picture) (Second running parallel behind) photographed from helicopter on Aqua Property.<sup>1</sup>**

**ASX listed FIN Resources heat map showing spodumene discovery (Red Circle on left heat map) with JBY's Aero property added to the map for geographical context<sup>2</sup>**

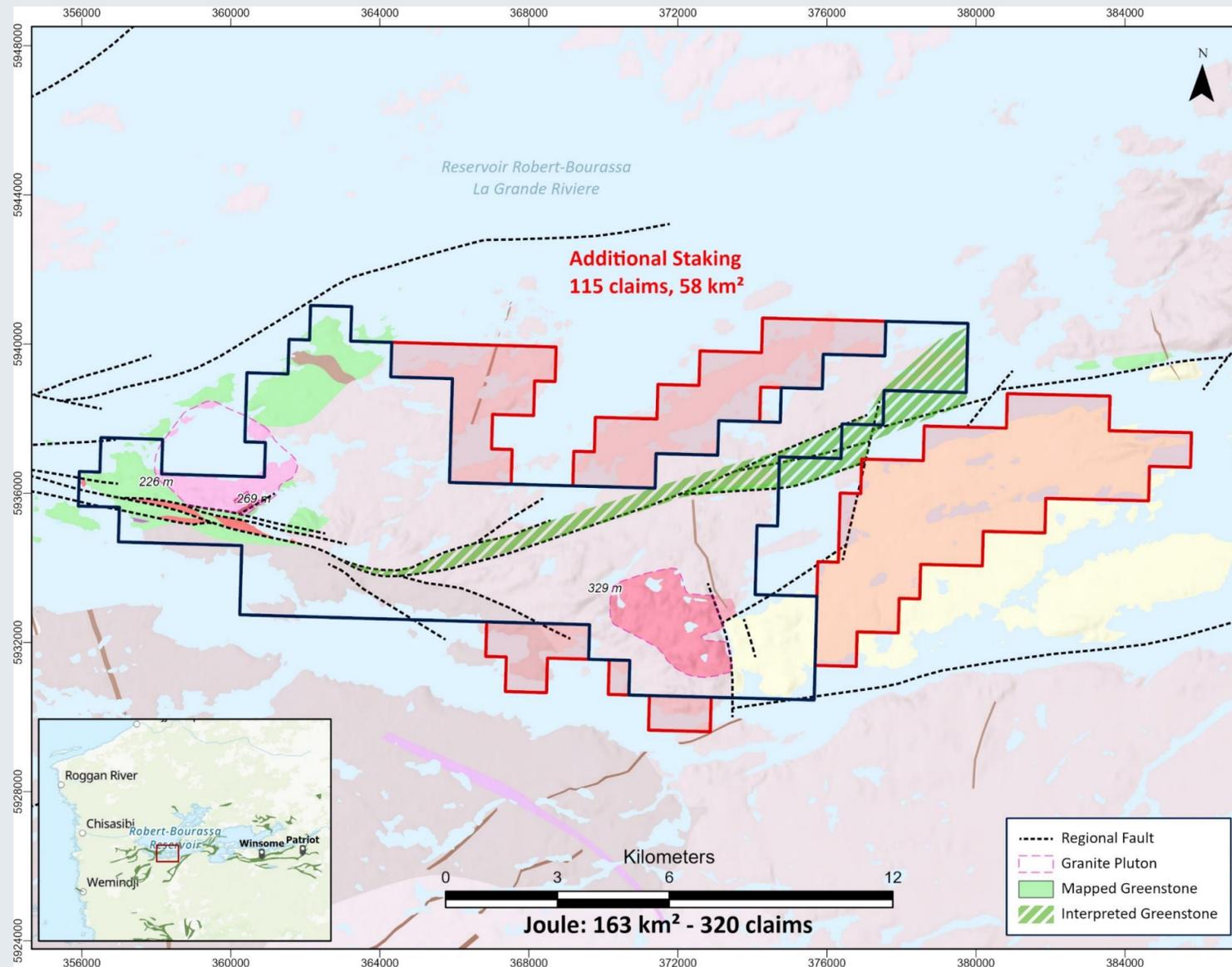
1. FIN Resources Limited ASX Announcement "Large Spodumene Crystals Discovered in Pegmatite Outcrop", dated 9 October 2023.  
 2. ASX Announcement "Multiple large outcropping pegmatite dykes identified at Aqua Property - James Bay, Canada, dated 8 October 2023. ", dated 5 October 2023

# Expansion of La Grande Project

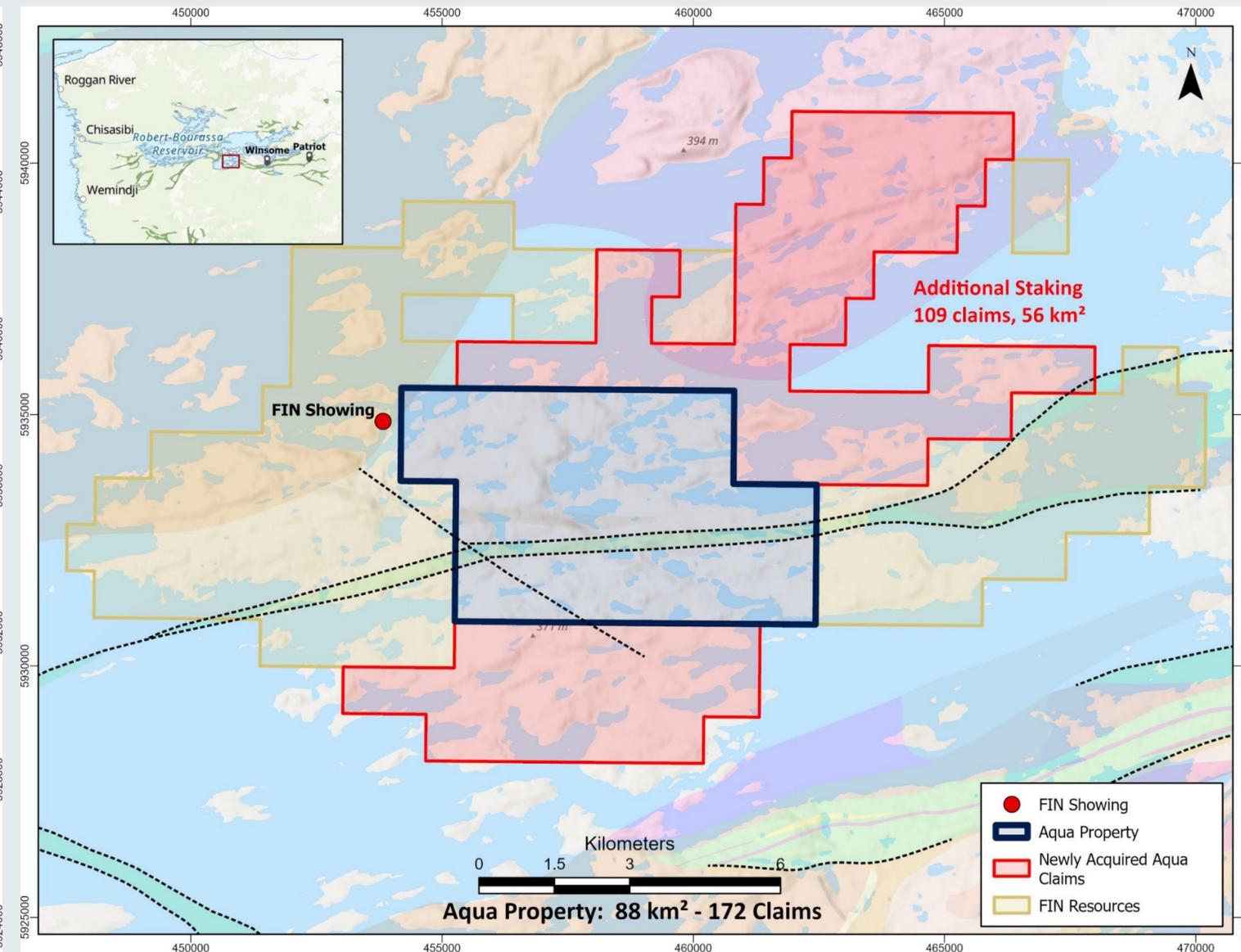


70% Increase in Project Area to 30,168 hectares (302km<sup>2</sup>)

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James Bay Minerals Joule Property existing (blue) and additional claims (red)



James Bay Minerals Aqua Property existing (blue) and additional claims (red)

# Maiden Field Program - Completed Activities



- Initial engagement with Cree Nation of Wemindji
- LIDAR and high-resolution photography
- Field mapping and prospecting across Aero
- High-resolution heliborne magnetic & spectrometric survey flown



# Upcoming Activities



- **Desk top studies analysing data generated from 2023 field program and aerial surveys to inform targeted works moving forward**
- **Submission of drill permit for Aero Property**
- **Accelerated drill program at Aero Property, forecast to commence H1 2024**
- **Commence field prospecting programs across Joule and Aqua properties H1 2024**

# Lithium Pricing

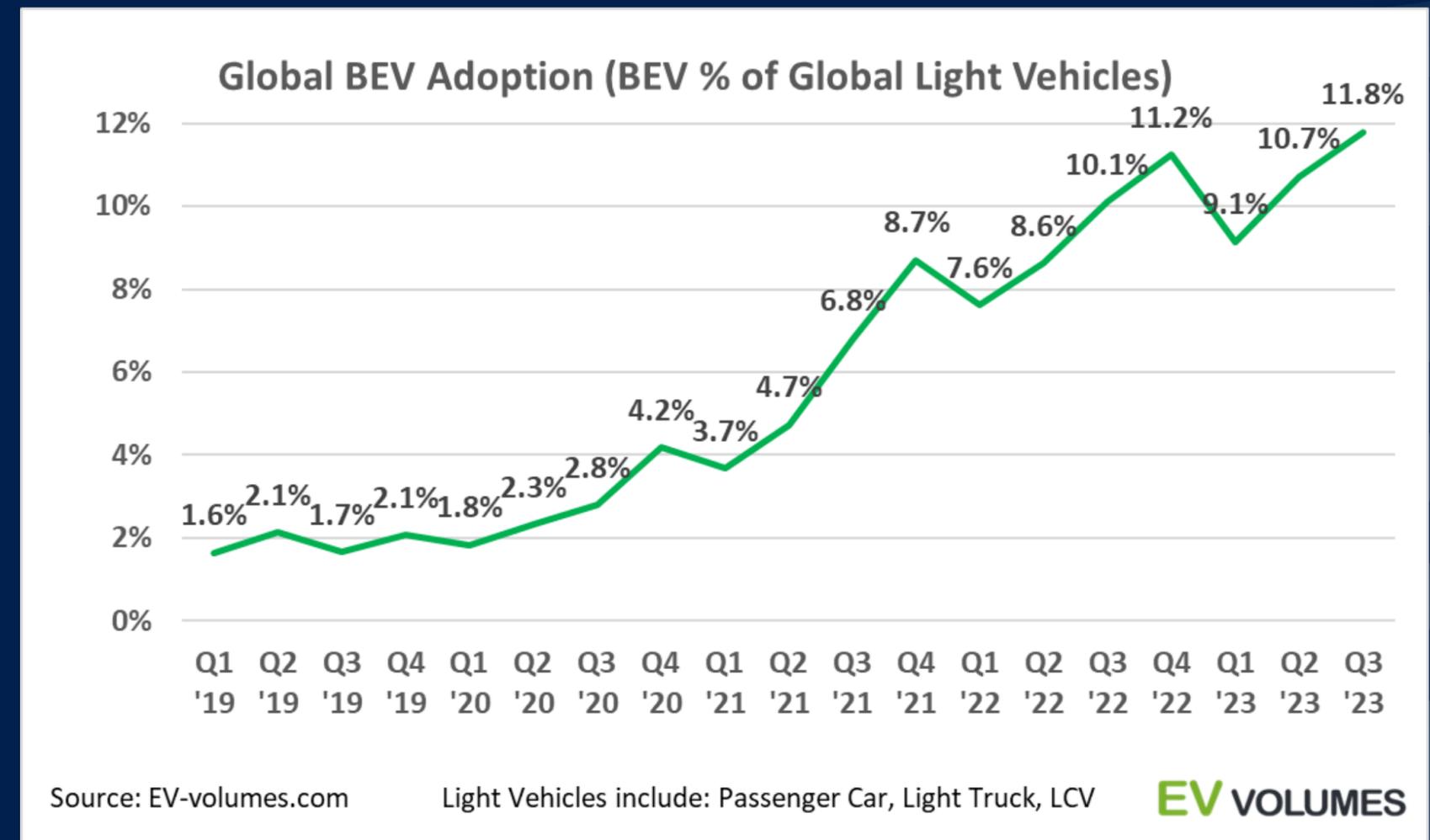
## Ambitions vs Reality



## Studies vs Execution

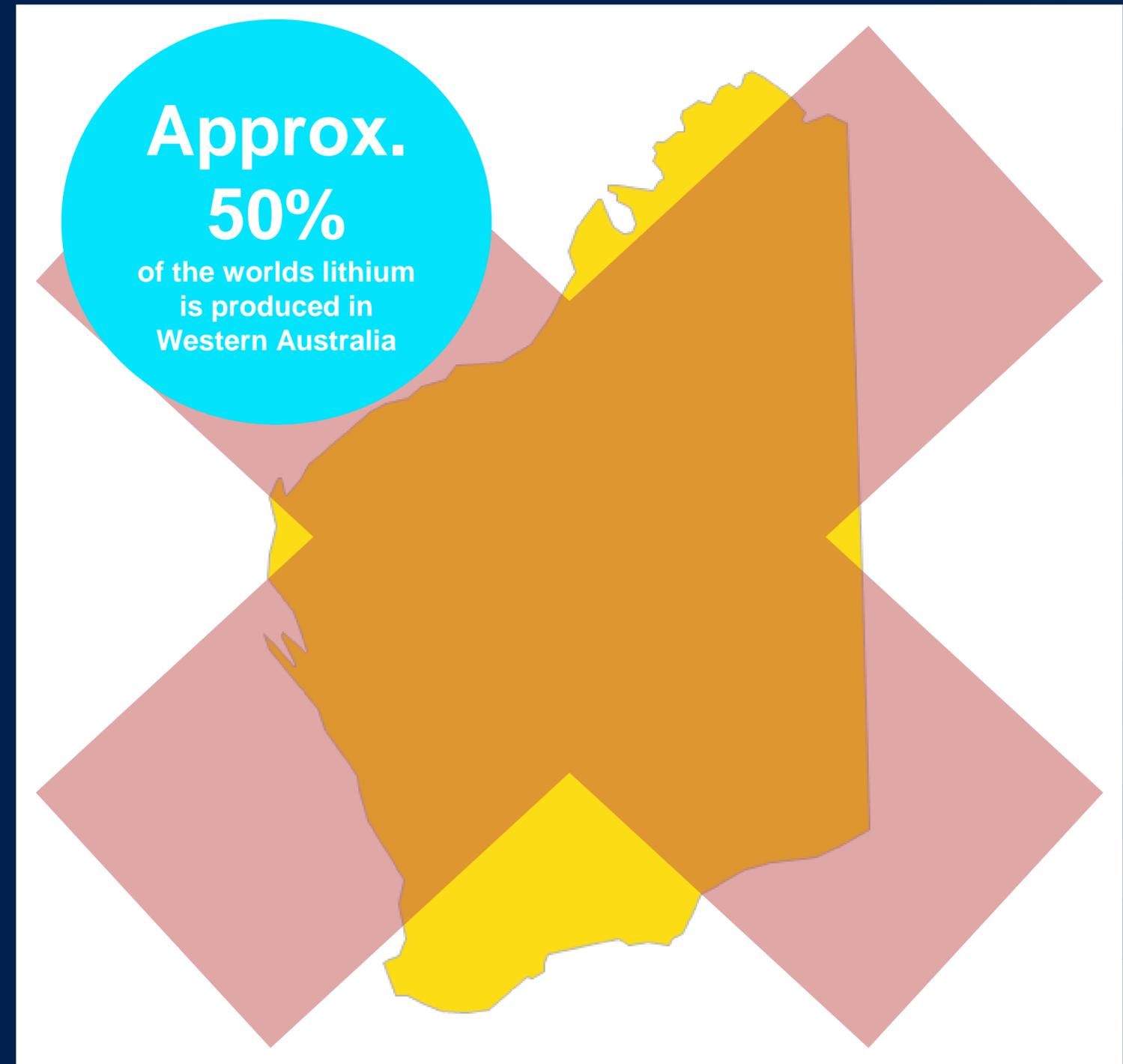


**Chinese Lithium Futures**  
**Lithium Inventory Levels**



# Market Activity

- Hot M & A market
- Multiple failed takeover bids
- Cashed up international Lithium Organisations
- Nationalisation of Lithium in Chile
- Large African lithium assets tied up in dispute



# James Bay / Canada – “The place to be!”



**Only Tier 1 Jurisdiction with:**

- Massive LCT deposits
- Government grants
- Exploration tax rebates (Up to 40%)
- Flow through funding
- No sovereign risks
- Unexplored with huge potential



**JAMES BAY**  
MINERALS

Contact Information:

**Andrew Dornan**  
*Executive Director*

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**Nicholas Read**  
*Read Corporate*

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Email: [nicholas@readcorporate.com.au](mailto:nicholas@readcorporate.com.au)

# Appendix 1 – Visual Interpretations<sup>1</sup>

Figure	Sample ID	Sample Type	Northing	Easting	Lithology	Mineralisation	Li Mineral %	Other Minerals Present	Assays
Figure 1	-	N/A	5935122mN	427753mE	Pegmatite	Disseminated green spodumene	~2% green mineral	Qtz 35%, Feldspar 50%, tourmaline <5%	Not sampled
Figure 2	-	N/A	5935122mN	427753mE	Pegmatite	Disseminated green spodumene	~2% green mineral	Qtz 35%, Feldspar 50%, tourmaline <5%	Not sampled
Figure 3	LIBS 784 Channel #138137	Channel Sample	5935116mN	427748mE	Pegmatite	Disseminated	100% Unknown	Qtz 35%, Feldspar 50%, tourmaline <5%	Approx 12 weeks

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1. ASX Announcement "Spodumene discovered at Aero Property", dated 31 October 2023