
North America's newest lithium producer.

Noosa Mining Conference
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This presentation refers to the following previous ASX releases:

- Drill results significantly expand Moblan lithium footprint – 11 July 2023
- New NAL Milestone with 30,000t Lithium Concentrate Produced – 4 July 2023
- NAL Lithium Carbonate Plant Study Produces an NPV of A\$3.2B – 21 June 2023
- A\$200M Placement to Speed Quebec Lithium Production – 26 May 2023
- Quarterly Activities/Appendix 5B Cashflow Report – 28 April 2023
- Moblan Boosted by Significant Increase in Lithium Resource – 17 April 2023
- DFS Confirms NAL Value With A\$2.2B NPV – 14 April 2023
- Sayona & Piedmont Lithium Announce Successful Restart of NAL – 31 March 2023
- 1,200 Tonnes Saleable Lithium Concentrate Produced at NAL – 16 March 2023
- First Lithium Concentrate Produced at NAL – 8 March 2023
- New NAL Milestone with Successful Process Plant Start Up – 27 February 2023
- NAL restart on track and on budget – 17 February 2023
- New NAL milestone with successful ore crushing trial – 31 January 2023
- NAL restart accelerates towards target – 16 January 2023
- Northern lithium hub expands in major acquisition – 17 November 2022
- Acquisition offers potential increase to NAL resource – 14 November 2022
- Moblan PFS targets Québec lithium expansion – 5 October 2022
- PFS launched for NAL lithium carbonate production – 4 October 2022
- Positive Pre-Feasibility Study enhances NAL value – 23 May 2022
- Sayona doubles Québec lithium resource base – 1 March 2022

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Section – 01

Profile Projects Outlook



North America's newest
lithium producer

NAL produced first
lithium concentrate in
March 2023.

North America's only
major hard rock
producer.

North American Lithium (NAL)
Abitibi region, Québec

The restored NAL plant has a target annual nameplate capacity of
up to **226,000t of spodumene concentrate.**



● Small carbon footprint due to hydropower; access to rail,
road & port, with proximity to key battery markets

Corporate Snapshot

ASX:SYA | OTCQB:SYAXF

Share price

A\$0.19

14 July 2023
52 week high \$0.375, low \$0.13

Market capitalisation

A\$1.9B

14 July 2023

Debt

Zero

31 March 2023

Shares on issue

10.0B

14 July 2023

Cash

A\$98.2M

31 March 2023
(excludes \$200m placement in
May 2023)

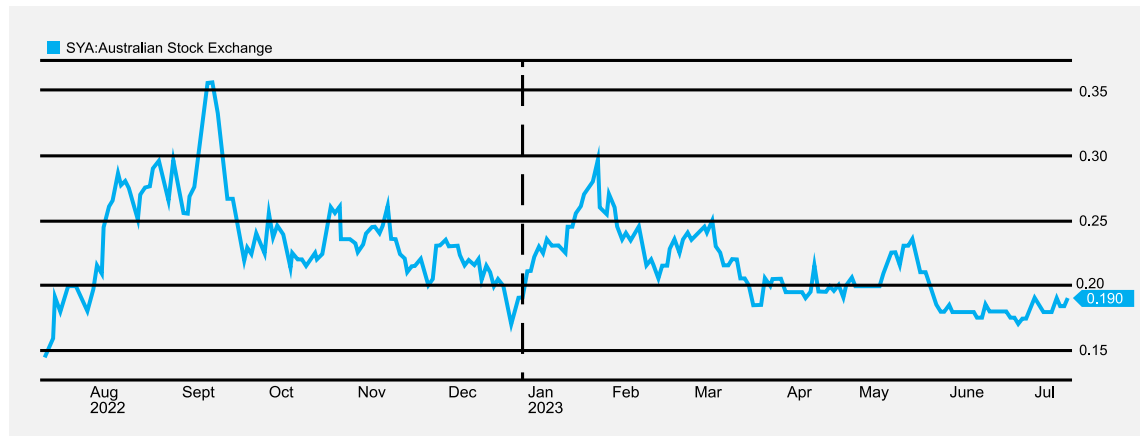
Various options

42M

14 July 2023

ASX share price performance (A\$)

12 months to 14 July 2023



Research coverage

As at 14 July 2023



Analyst Frederic Tremblay



Analyst Andrew Harrington



Analyst Hayden Bairstow



Analyst Di Brookman



Analyst Reg Spencer



Analyst Nili Eslah

Board and Senior Management

The right blend of mining and corporate experience to deliver



Brett Lynch



Managing Director & Chief Executive Officer

A senior mining engineer and manager, Brett has more than 30 years' experience in the global industry, including previous posts with leading resources companies such as MIM Holdings, New Hope Corporation, Orica and VLI, during which time he was responsible for multi-million dollar international operations.



Paul Crawford



Executive Director & Company Secretary

An accountant with over 40 years of commercial experience in various technical and management roles within the minerals, coal and petroleum industries. He has also had significant corporate experience in the management and governance of ASX-listed resource and mining companies.



James Brown



Non-Executive Director

A qualified mining engineer with more than 40 years' experience in the mining industry in Australia, the US, Africa and Indonesia, including 14 years as Managing Director of ASX-listed Morella Corporation. He has successfully sourced, developed and operated numerous key global projects with a focus on lithium and battery minerals.

Allan Buckler



Non-Executive Director

A qualified mine manager with more than 40 years' coal experience in Australia and Indonesia. He has had key roles in the establishment of several large mining and port operations in both Australia and Indonesia. Allan is a former Director and Chief Operations Officer of New Hope Corporation Limited.



Guy Belleau



Chief Executive Officer, Sayona Québec

With more than 30 years' experience in the mining industry, Guy has served as Chief Operating Officer for ArcelorMittal Mines Canada, General Manager of Mining for Falco Resources, and General Manager of Mining for Goldcorp's Eleonore mine. He has also chaired the board of directors of the National Institute of Mining since 2018.

Section 02

Profile Projects Outlook



Québec Lithium

Abitibi Hub

North American Lithium (NAL)
Mine and concentrator
Future carbonate plant

Authier Project
Long-life deposit 30km
from NAL

Tansim Project
Exploration project with
near-term potential

Vallée Lithium Project
Earn-in claims adjacent to
NAL operation

Northern Hub

Moblan Project
Host to high-grade
spodumene mineralisation

Lac Albert Prospect
Located in proven lithium
mining province

Troilus Claims
Regional exploration
opportunity

Measured & Indicated + Inferred
Resource¹

75.4Mt

@1.18% Li₂O

Target Annual Production

226,000t

Spodumene concentrate

Target Annual Production

23,600t

Lithium carbonate from 2026

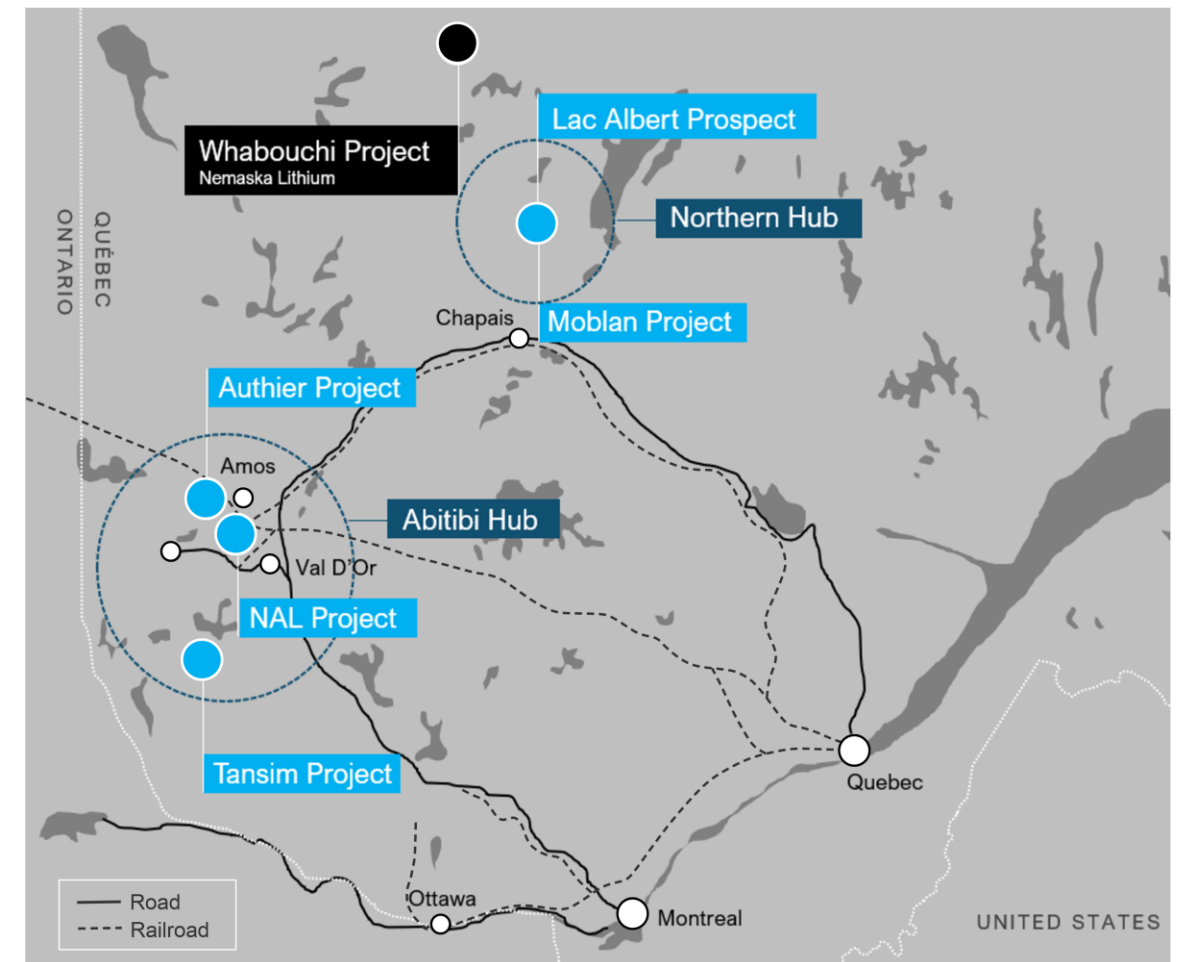
Measured & Indicated + Inferred
Resource³

51.4Mt

@1.31% Li₂O

Sayona aims to produce **100,000t²**
of lithium hydroxide from 2030

Abitibi and Northern Hubs



¹ Combined JORC Measured, Indicated and Inferred Resource for NAL and Authier

Canadian National Instrument 43-101 Measured and Indicated Mineral Resource for NAL is 25Mt @ 1.23% and for Authier is 14.1Mt @ 1.01% Li₂O

² As at the date of this investor presentation this number is purely aspirational. It is not a prediction of what Sayona will actually be able to produce. While Sayona is currently undertaking a feasibility study, insufficient work and analysis has yet been completed for Sayona to have any reasonable grounds for setting this as a production target.

³ Canadian National Instrument 43-101 Measured and Indicated Mineral Resource is 49.9Mt @ 1.20% Li₂O at cut-off grade of 0.25%. JORC resource sensitivity of 51.4Mt @ 1.31% Li₂O (sensitivity analysis at 0.55% Li₂O cut-off grade)

North American Lithium (NAL) Concentrate production ramp-up

01 Production underway

First saleable (commercial grade) spodumene concentrate produced in March 2023

Concentrate production of 30,655t to 25 June 2023

02 Concentrate shipments

More than 26,000 tonnes being stockpiled at port

First shipment expected July 2023

120,000 tonnes spodumene concentrate sales planned in H1 FY24

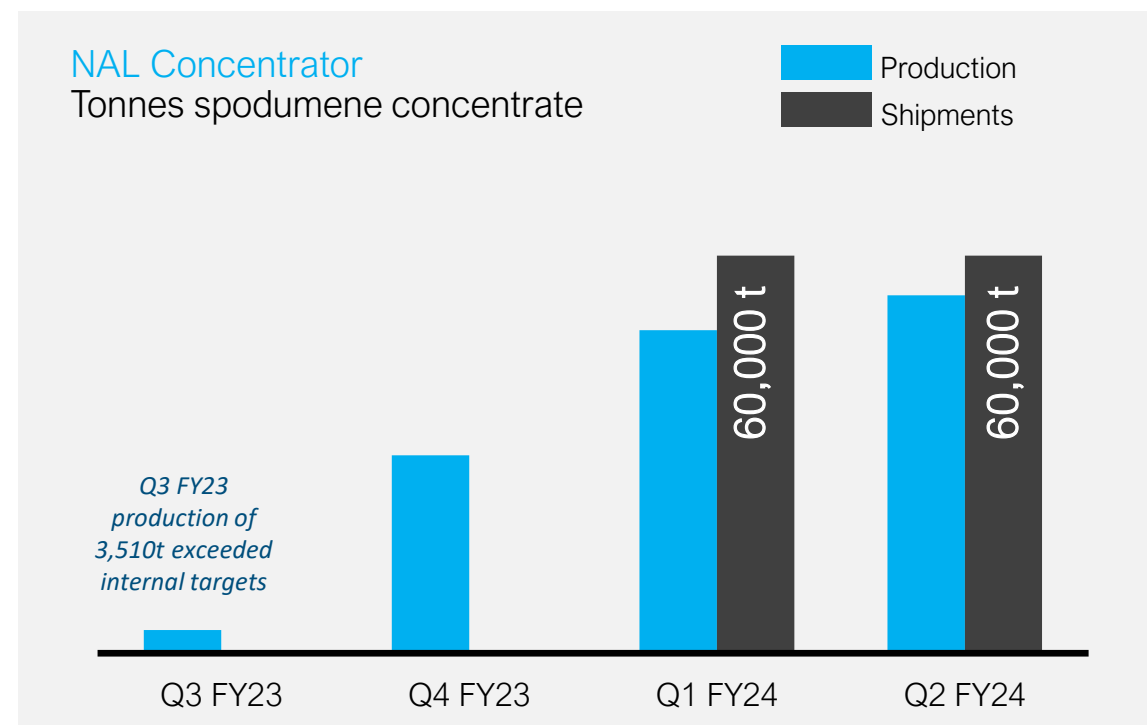
30,000 t
concentrate
produced

Concentrate
grade
5.5% Li₂O

1st Shipment
July 2023

Speed

First 30,000 tonnes produced ahead of schedule



Projected NAL H1 FY24 total
production spodumene concentrate

85,000t – 115,000t

North American Lithium (NAL)

DFS proves value as NPV doubles

NAL ownership: Sayona 75% | Piedmont 25%

20 Years

Mine Life

226,000t¹

Annual Concentrate
Production

4,200 tpd

Mill Throughput

70.2%¹

Recovery

US\$691/t²

Cash Cost incl. Authier
(per tonne of concentrate)

US\$740/t

AISC excl. Authier
(per tonne of concentrate)

US\$14M³

Annual Sustaining Capex

US\$1,026M⁴

After-tax NPV_{8%}

2,545%

After-tax IRR

US\$2,489M

Life-of-Mine EBITDA



North American Lithium (NAL)

NAL ownership: Sayona 75% | Piedmont 25%

Lithium carbonate study swells NAL value

16 Years

Plant Life

23,610t

Annual Carbonate
Production

186,000t¹

Annual Concentrate
feedstock

85.5%

Lithium conversion

US\$11,567/t²

Cash Cost incl. SC6 transfer
(per tonne of carbonate)

US\$11,997/t²

AISC incl. SC6 transfer
(per tonne of carbonate)

C\$555M³

Project Capital Cost

US\$1,539M⁴

After-tax NPV_{8%}

50%

After-tax IRR

US\$9,470M

Life-of-Plant Revenue



¹ Annual concentrate feed grade assumed 6.0 wt% Li₂O

² Includes US\$9,200 per tonne of spodumene transferred between the NAL concentrator and NAL carbonate plant. Average transfer price of spodumene concentrate is C\$1,557 per tonne of SC6.0

³ Includes C\$111m of Contingency

⁴ Pre-tax NPV_{8%} of US\$2,158M

Abitibi Hub

Growth and transformation

01 Increase resources and production

Sayona will blend ore extracted from Authier with NAL ore to enhance plant performance and economics

35,000m drilling planned across NAL

Define larger resource base capable of supplying more tonnes and enhanced material quality to NAL concentrator

02 Jourdan strategic transactions

Jourdan Resources' Vallée Lithium Project deal - acquisition of 20 claims outright with right to earn up to 51% stake in remaining 28 claims

Drilling 15,000m in 2023 as part of \$4 million earn-in commitment

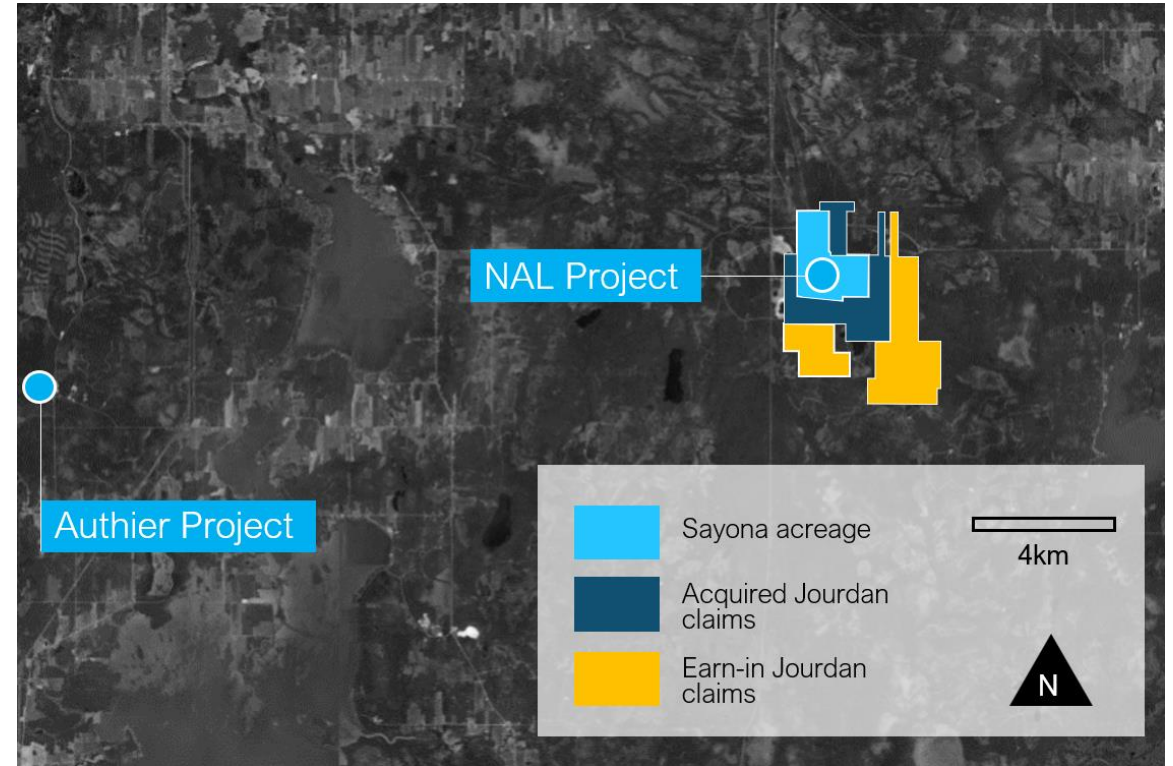
03 Move further downstream

Significantly, the NAL complex already includes a partially completed lithium carbonate plant constructed by its previous owners

Sayona targeting carbonate production by 2026

Size

50,000m drill campaign in 2023 across NAL and Vallée Lithium Project



November 2022

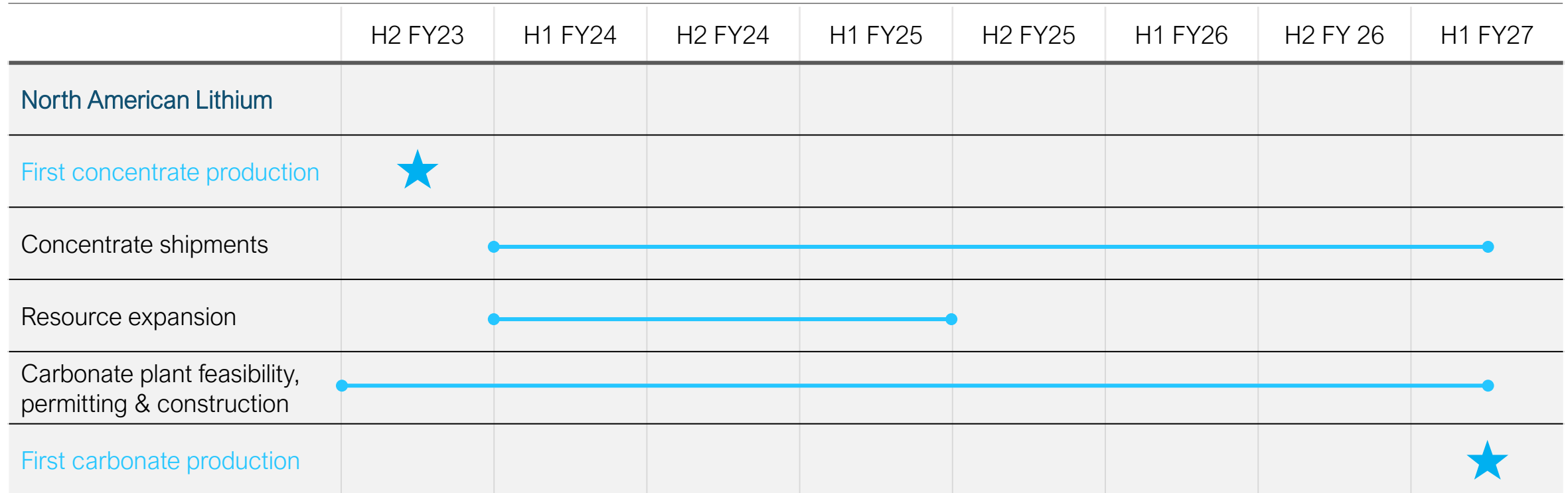
Jourdan Resources' Vallée Lithium Project claims acquisition and joint venture

Abitibi Hub

Timeline¹

Speed

Brownfield asset with quick pathway to production



Northern Hub

Moblan resource

01 Mineral resource

Measured & Indicated + Inferred Resource¹

51.4Mt
@ 1.31% Li₂O

Mineralisation extends over an area 1,000m north to south and 2,000m east to west

Resource hosted in four main pegmatite associations

02 Lithium footprint extension

First 2023 results from 88 holes for 18,442m

Newly identified extension to flat lying South pegmatite²

Drilling to the east and west has identified similar flat lying pegmatites

System has been lightly tested at depth with most drilling in upper 200m zone

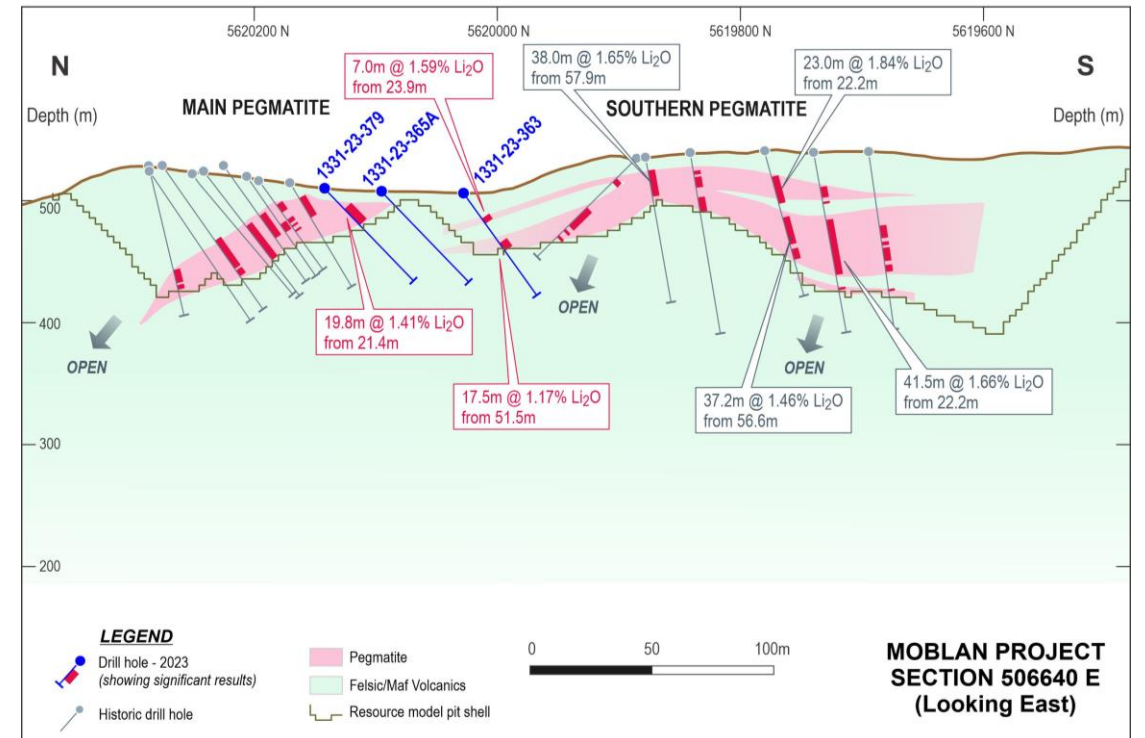
Moblan ownership: Sayona 60% | SOQUEM 40%

One of North America's single largest lithium resources

High potential to identify further stacked pegmatite lenses at depth

Moblan DFS due Nov 2023

Resource Upgrade H1 2024



Northern Hub

Moblan – further drilling

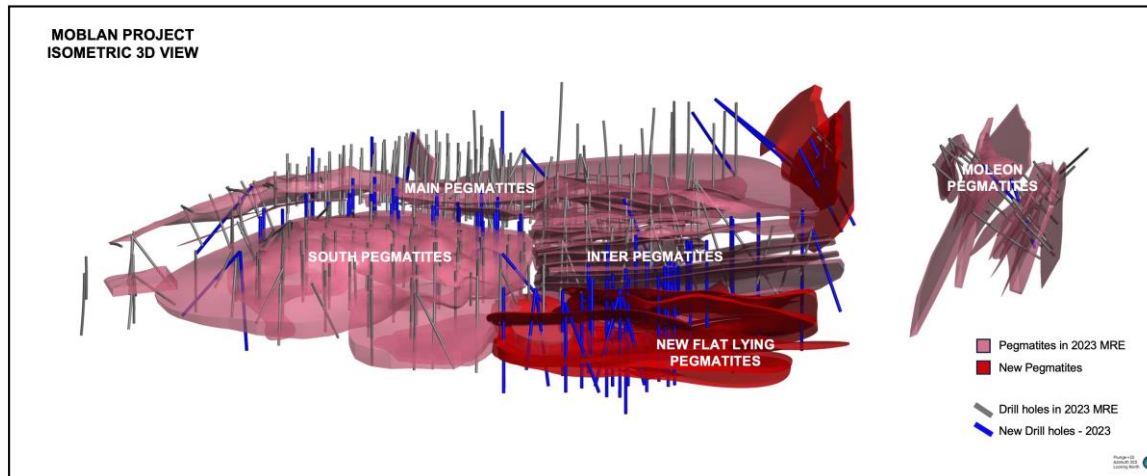
01 Further drilling 2023

New, near surface pegmatite systems may be present and combine with the Moleon pegmatites 400m eastwards

High potential for repetitions of flat lying South pegmatite style system at depth

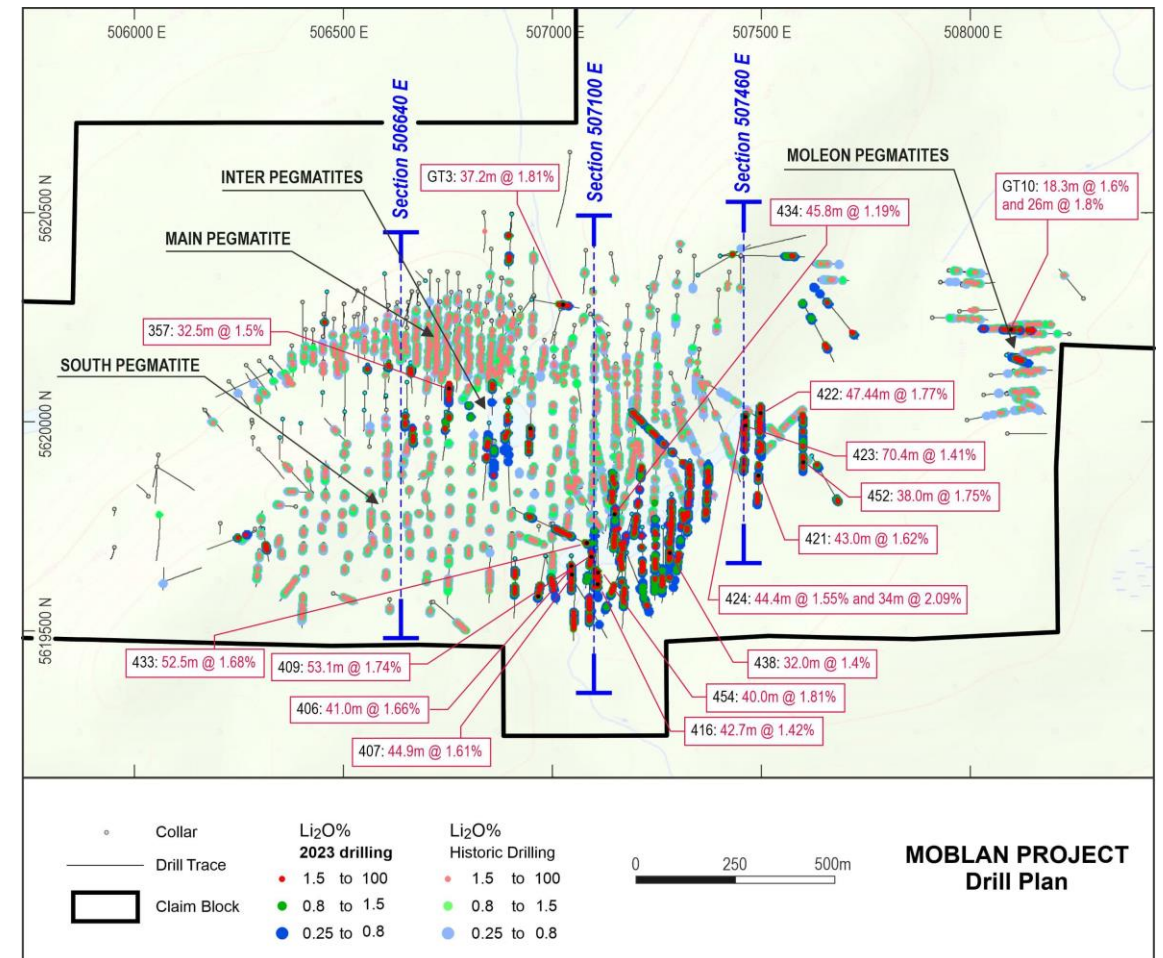
Assays pending on 77 holes for 15,122m

26,000m drilling to be completed once approval to re-commence from authorities following wildfires



Speed

Targeting high grade, low strip ratio operation



Northern Hub

Growth and transformation

Troilus claims acquisition offers 985km² opportunity for discovery and resource expansion in Northern Hub

Troilus claims acquisition comprises 1,824 claims spanning 985 sq km, more than 200 times the size of the Moblan Project

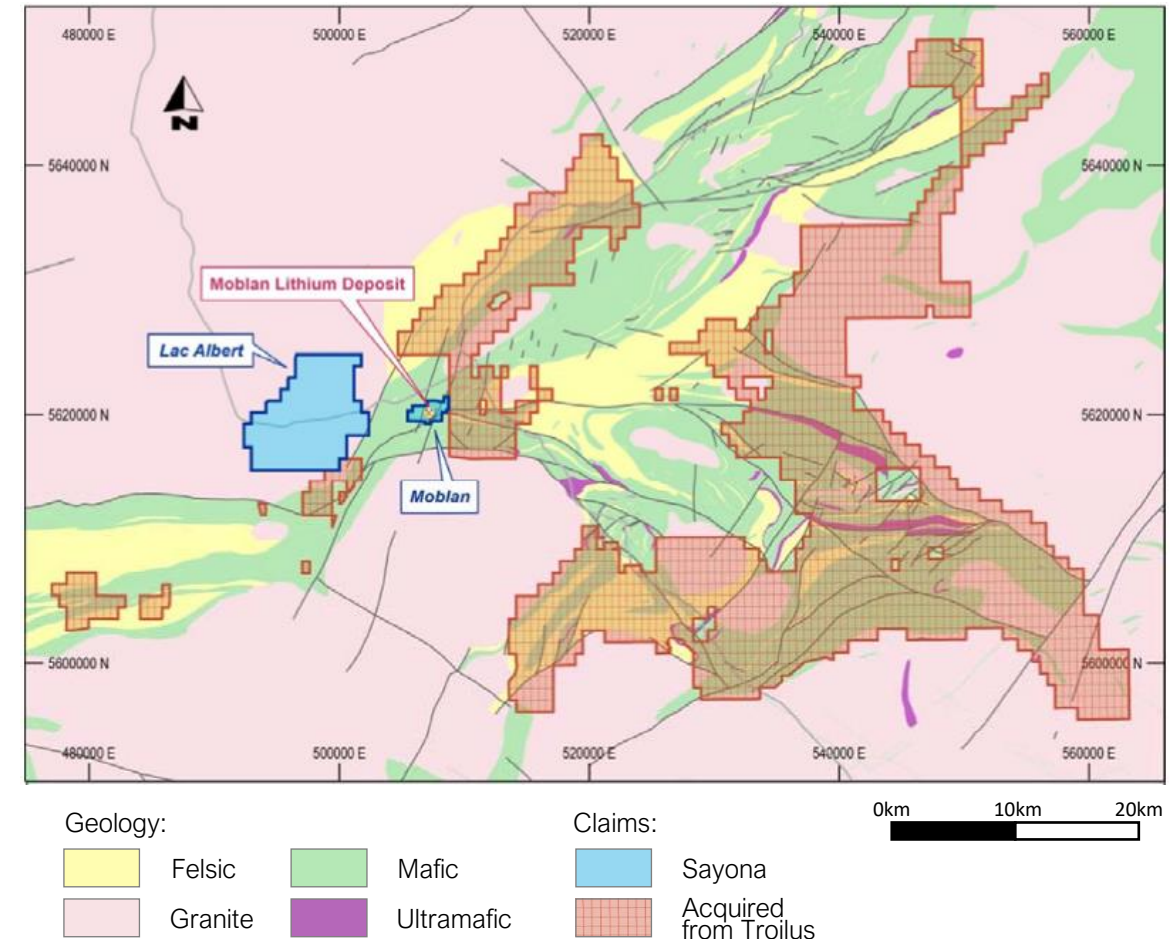
Acquired claim area never previously systematically explored for lithium

Large project area secures opportunity for eastern extensions to Moblan mineral system combined with regional, greenstone belt scale discovery to advance Northern Hub

Progresses Québec Government's strategy for lithium hub in James Bay region

Size

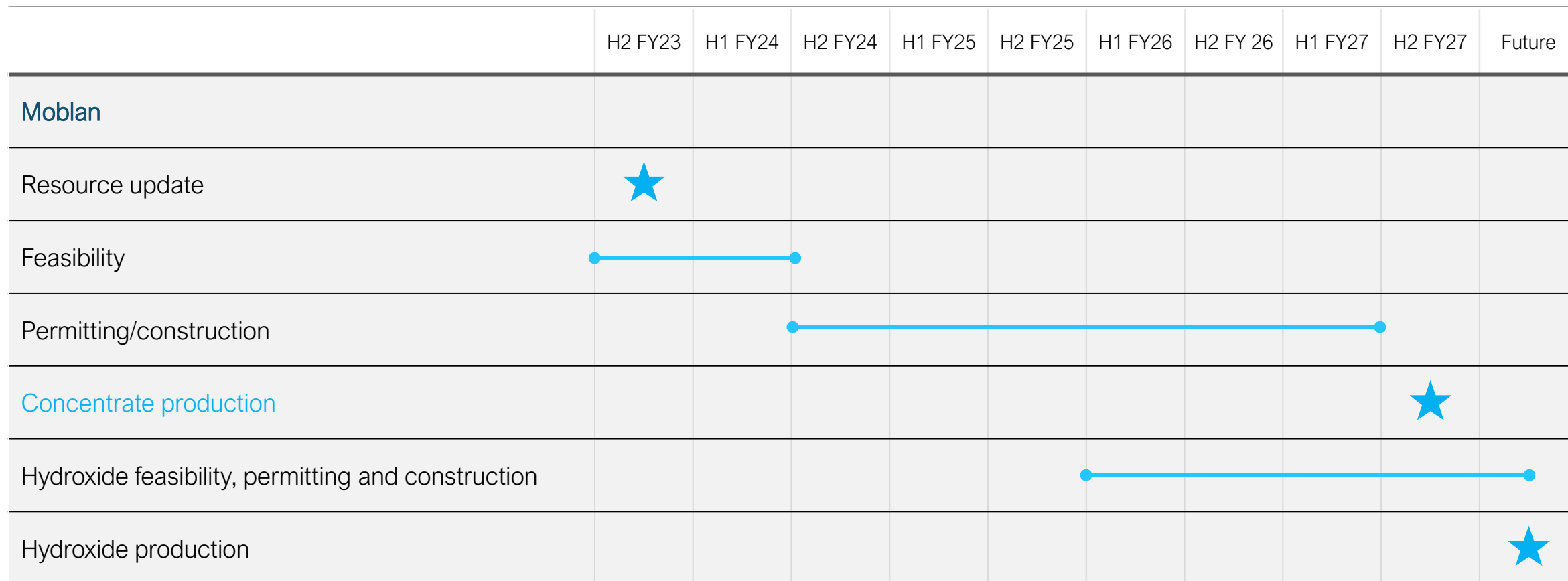
Possible enhanced prospectivity for large scale pegmatite discoveries



Northern Hub Timeline¹

Speed

Sayona will deliver the Northern Hub with the speed and agility that served to fast-track Abitibi's production



Section 03

Profile Projects Outlook



Investor milestones

Completed Milestones

- NAL acquisition
- Moblan acquisition
- NAL PFS
- Troilus claims acquisition
- Jourdan claims acquisition
- NAL restart
- NAL DFS
- Moblan resource upgrade
- NAL carbonate Preliminary Technical Study

Future Milestones

- Additional NAL offtake agreements
- NAL first spodumene shipment
- Exercise of earn-in option for Vallée JV
- NAL carbonate Definitive Technical Study
- Moblan DFS
- Moblan drilling results
- Moblan resource upgrade



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