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The information in this report that relates to Exploration Results is based on information either compiled or reviewed by Mr Darren Allingham FAIG who is an employee of Loyal Lithium Limited. Mr Allingham is a Fellow of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves. Mr Allingham consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

This presentation has been approved by the Board of Loyal Lithium Limited.

OUR MISSION & VISION



MANAGING DIRECTOR - ADAM RITCHIE BEng (hon), MEng, CPEng

"Loyal Lithium aims to play a key role in the North American lithium supply chain by building a business that attracts development opportunity, whilst also adding value to communities and shareholders."

"We are passionate about lithium and believe we can do it better."

Highly experienced lithium and development professional





Over 20 years' experience in the resources sector having held senior positions at Australia's leading resources companies including Pilbara Minerals, FMG, Rio Tinto & BHP

Former Project Director of Pilbara Minerals (ASX: PLS) flagship Pilgangoora Lithium Project



OUR LITHIUM PORTFOLIO

NORTH AMERICAN FOCUSED



HIDDEN LAKE LITHIUM PROJECT NWT, CANADA

TRIESTE LITHIUM PROJECT
QUEBEC, CANADA

SCOTTY LITHIUM PROJECT NEVADA, USA

CAPITAL STRUCTURE



STRONG CASH POSITION WITH \$9.6m⁽²⁾





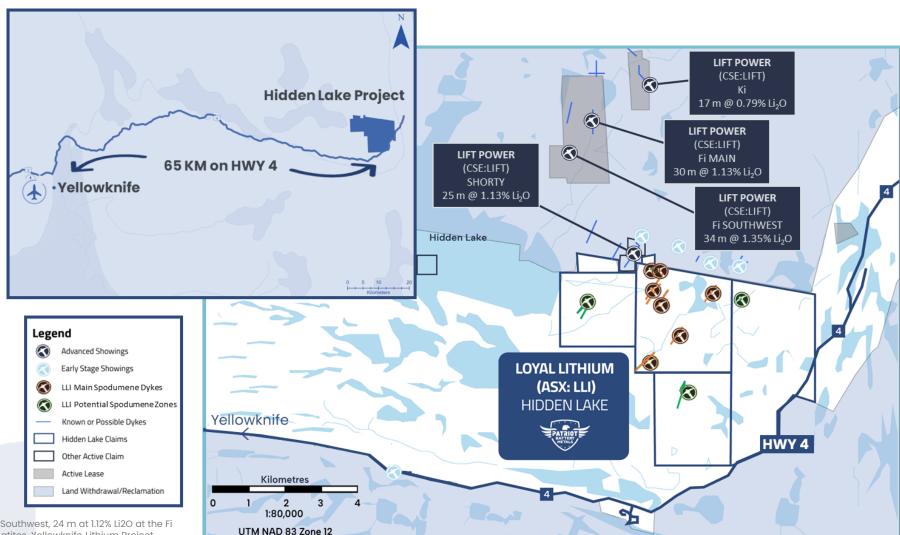


WE LOVE IT - UNDER EXPLORED YET UNDERSTOOD



"We are excited to bring fresh ambitions to this notable spodumene project alongside our joint venture partners, Patriot Battery Metals."

Adam Ritchie
Managing Director
Loyal Lithium



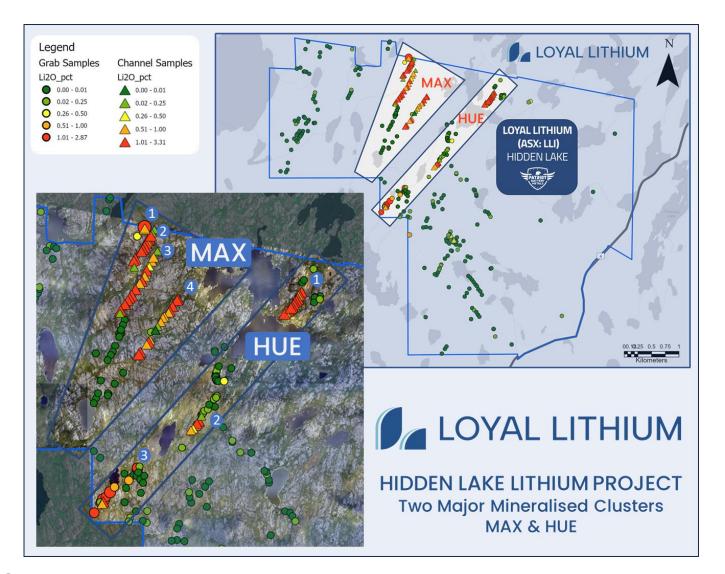
LIFT Drilling Data:

1. September 2023, LIFT Corporate Presentation

September 6, 2023 LIFT Intersects 22 m at 1.46% Li2O at the Fi Southwest, 24 m at 1.12% Li2O at the Fi
Main, and reports first results from BIG East and Shorty Pegmatites, Yellowknife Lithium Project,
NWTIntercepts of up to 1.6% Li2O over 9.2 metres.

3. November 7, 2023, LIFT intersects 21m at 1.40% Li2O at the BIG East pegmatite and 19m at 1.16% Li2O at the Shorty pegmatite, Yellowknife Lithium Project, NWT.

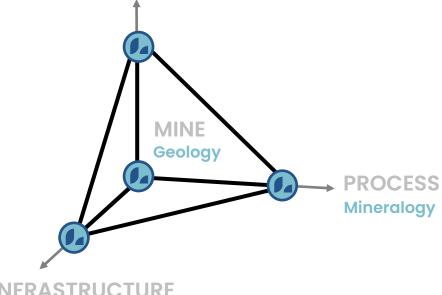
WHY WE LOVE IT - RESOURCE POTENTIAL





RESOURCE POTENTIAL

Exploration Work



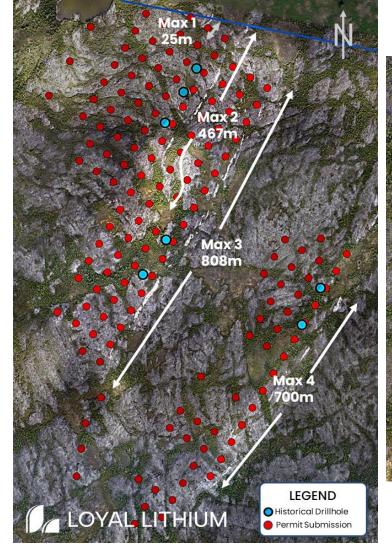
INFRASTRUCTURE

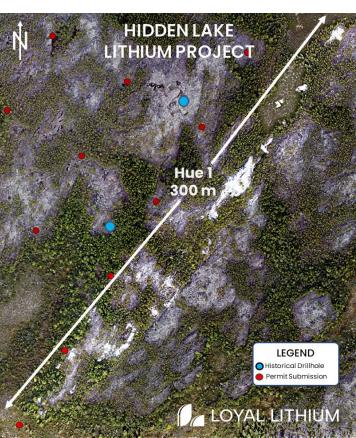
Proximity to Existing

Extensive spodumene bearing pegmatite outcrops identified - 3,250m of Strike Length:

- 2 major mineralized clusters MAX & HUE
- 4 main spodumene bearing dykes drill tested
- 3 additional spodumene dykes discovered
- Drilling preparations for the Canadian winter

WHY WE LOVE IT - RESOURCE POTENTIAL

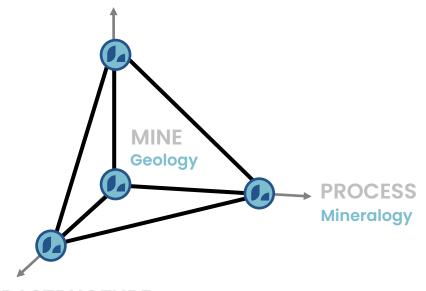






RESOURCE POTENTIAL

Exploration Work



INFRASTRUCTURE
Proximity to Existing

All dykes are clearly visible from surface with the 4 historical Dykes drill tested

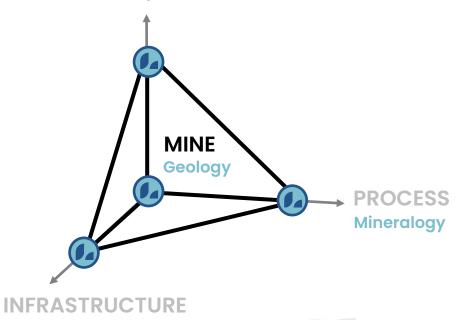
- 10 drill holes conducted to 30–50 m vertical confirming mineralisation with grades up to 1.81% Li₂O
- Open along strike and depth

WHY WE LOVE IT - MINEABLE





RESOURCE POTENTIAL Exploration Work



Prominent spodumene pegmatite outcrops have a cumulative strike length of ~3,250 m.

Proximity to Existing

Surface exposures and drill intercepts imply favourable mining geometries for both open cut and underground operations.

WHY WE LOVE IT - PROCESSING SIMPLICITY

Mineralogy & Metallurgy fundamentals understood

Mineralogy is simple and consistent with low impurities

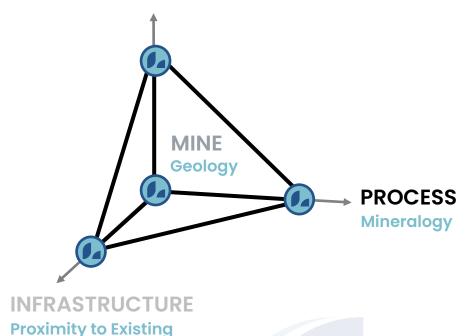
- Spodumene
 - + Quartz
 - + Feldspars
- < 0.25% FeO







RESOURCE POTENTIAL Exploration Work



Metallurgy supports DMS concentration

- DMS concentrate via pilot plant
- Highly liberated
- 50%+ mass rejection < 0.2% Li₂O loss

WHY WE LOVE IT - EXISITING INFRASTRUCTURE



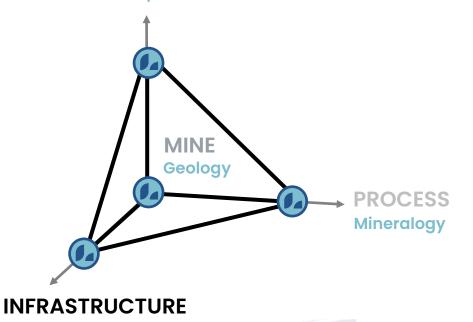
Yellowknife – Capital of NWT population of ~20,000

- Well established workforce and support services
- Domestic Airport daily connections to Canadian cities
- All-weather roads south to Alberta and British Colombia
- Hydroelectric power 2030 plans for the Lithium Belt





RESOURCE POTENTIAL Exploration Work



Hay River Rail Terminal – CN Rail Canada & United States of America

• Significant backhaul capacity

Proximity to Existing

HIDDEN LAKE APPROACH

CONCURRENT WORKSTREAMS IN MOTION

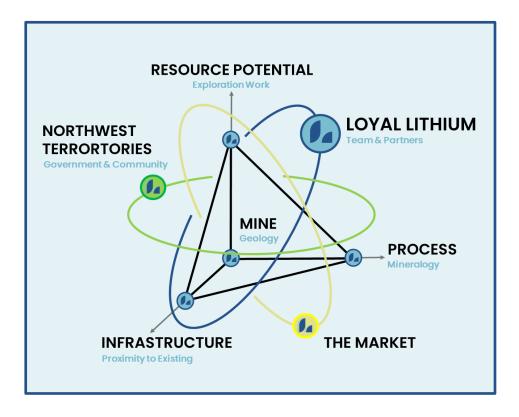


2023

2024

LAND & COMMUNITY

- First Nations Engagement
- Yellowknife Community Engagement
- Government & Regulators
- Environmental & Cultural Surveys



EXPLORATION & DRILLING

- Field mapping extends mineralized Strike Length to 3,250m
- 2 major mineralized clusters MAX & HUE
- Contains 7 mineralised dykes ready for drill testing
- Enhanced winter drilling program prepared
- Land Use Permit (exploration permit) submitted

STUDIES

- Environmental baseline
- Test work & flowsheet
- Scoping
- Feasibility



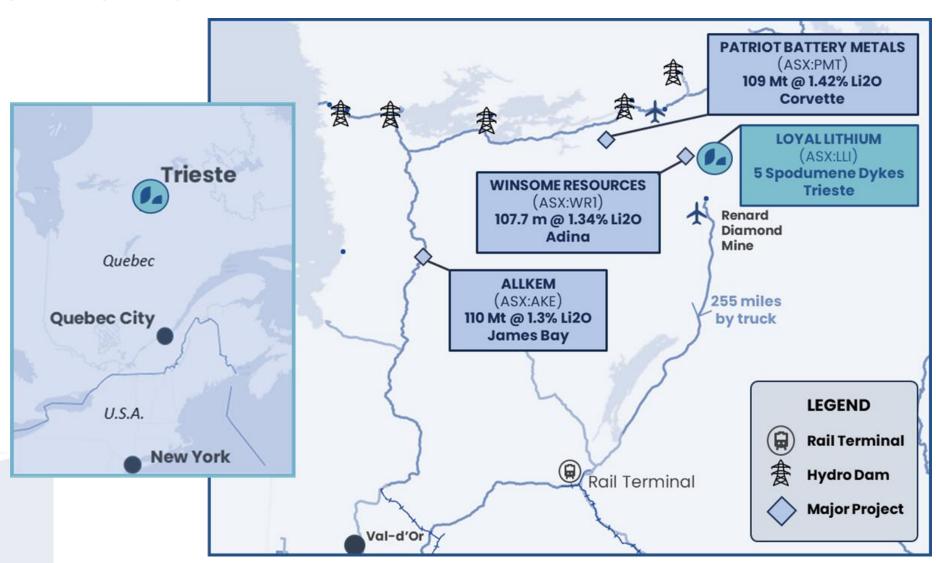
LOYAL LITHIUM

JAMES BAY LITHIUM DISTRICT

Surrounded by large scale advanced lithium projects in the Tier I mining jurisdiction of Quebec, Canada.

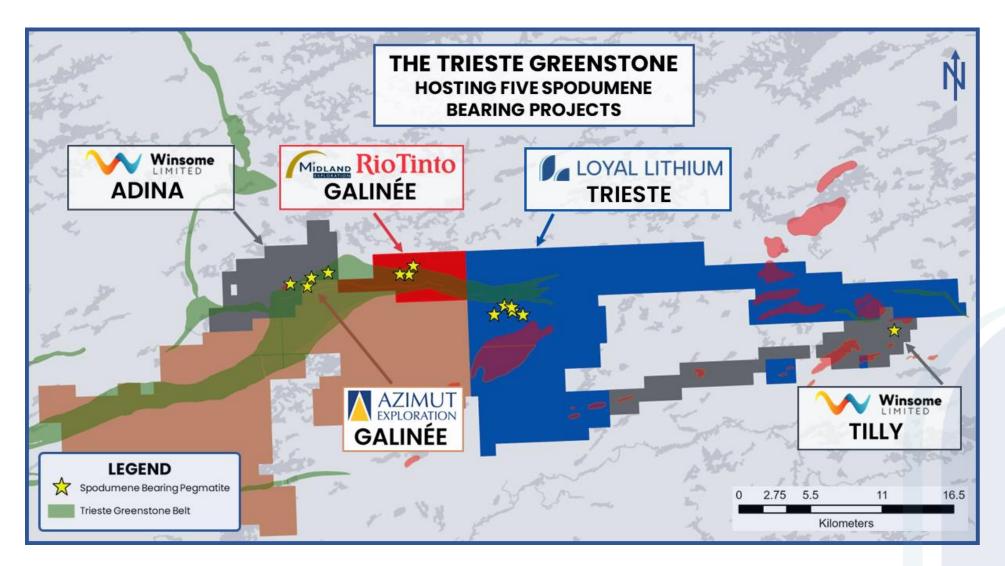
Five spodumene bearing pegmatites discovered in maiden field program.

Fast-tracked maiden drilling program at Dyke #01 intercepts spodumene bearing pegmatite in all drill holes.





ALL EYES ON THE TRIESTE GREENSTONE REGION

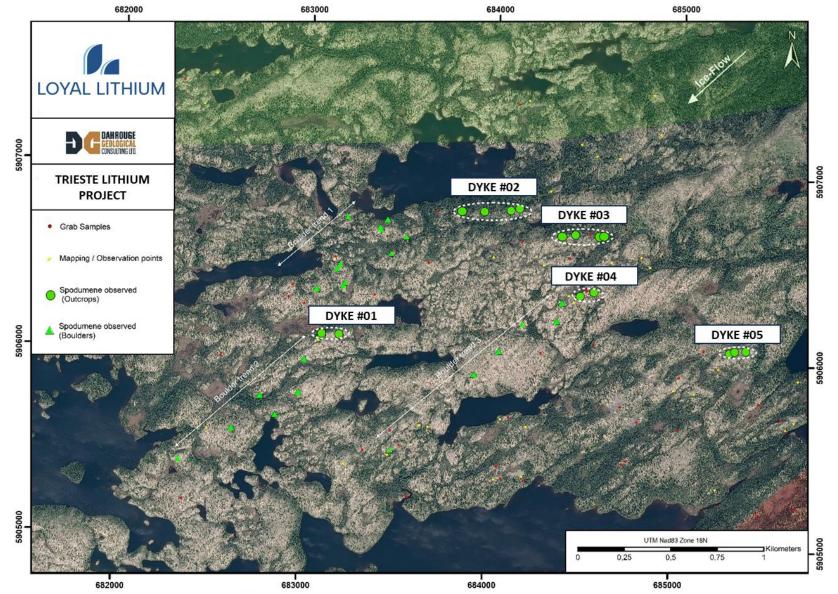


MOU WITH WINSOME RESOURCES

"Although early days
- discoveries to date
indicate that the
Trieste greenstone
region could play an
important role in the
emerging North
American lithium
supply chain."

Adam Ritchie
Managing Director
Loyal Lithium

AUGUST 2023 SPODUMENE DISCOVERY





FIVE SPODUMENE BEARING PEGMATITE DYKES DISCOVERED

The five spodumene bearing pegmatite dykes, with aligned implied continuous outcrops, have been identified within a 6km² area to the south of the Trieste greenstone belt, situated in a metasediment host.

FAST-TRACKED DRILLING PRGRAM

ALL DRILL HOLES AT DYKE #01 INTERCEPTED SPODUMENE BEARING PEGMATITE

DYKE #01 REMAINS OPEN IN ALL DIRECTIONS

Notable drilling pegmatite cumulative spodumene bearing intercepts:

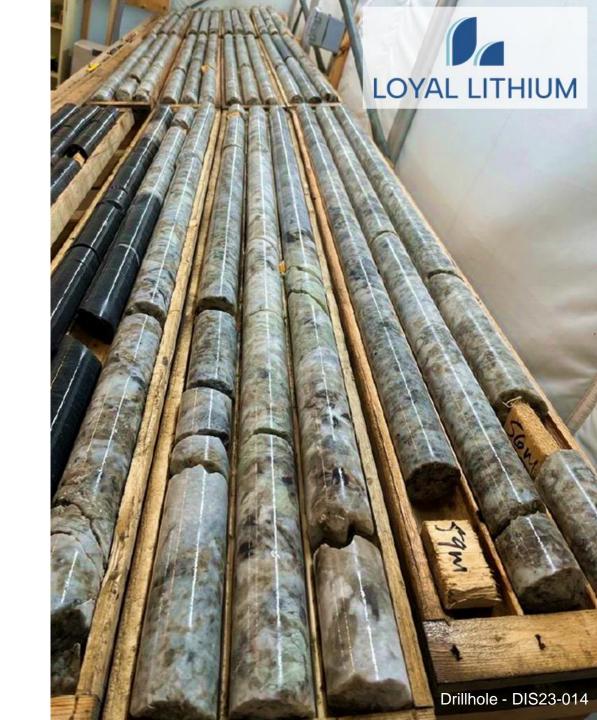
74.77m - DIS23-014

30.44m - DIS23-011

27.96m - DIS23-004

26.74m - DIS23-006

24.22m - DIS23-005



EARLY DRILL CORE VISUALS







SPODUMENE CRYSTALS ARE LARGE AND ABUNDANT

"We are delighted to have been able to commence this maiden drilling program just 6 weeks after the discovery at the Trieste Lithium Project."

"The visual spodumene crystals within the core are large and abundant - in line with what we've seen at surface across the project. We will now have the core sent for assaying and commence planning for a more substantial drilling program in the winter."

Adam Ritchie Managing Director Loyal Lithium

TRIESTE APPROACH



FAST-TRACKED EXPLORATION IN MOTION

2023

2024

FIELD MAPPING

RESULTS & INTERPRETATION

- Five spodumene bearing pegmatites discovered
- Rock chip & channel sample assays pending
- LiDAR surveys completed

DYKE #01 DRILLING

RESULTS & INTERPRETATION

- Dyke #01 initial target largest outcropping dyke
- Drill core assays pending
- Results & Interpretation to support winter drilling program

WINTER DRILLING

- Larger wide scale program
- Inform desktop studies





SEDIMENT HOSTED LITHIUM EXPLORATION TARGET DEFINED

SCOTTY LITHIUM PROJECT, NEVADA USA

Drilling assays confirm the presence of a ~165m deep mineralised lithium basin at the 100% owned Scotty Lithium Project, with an average grade of 1,120ppm lithium¹.

Geological modelling has determined a large and robust independent exploration target.³

Lower Range

Upper Range

460 Mt

@ 1145 ppm^{1,2,3}

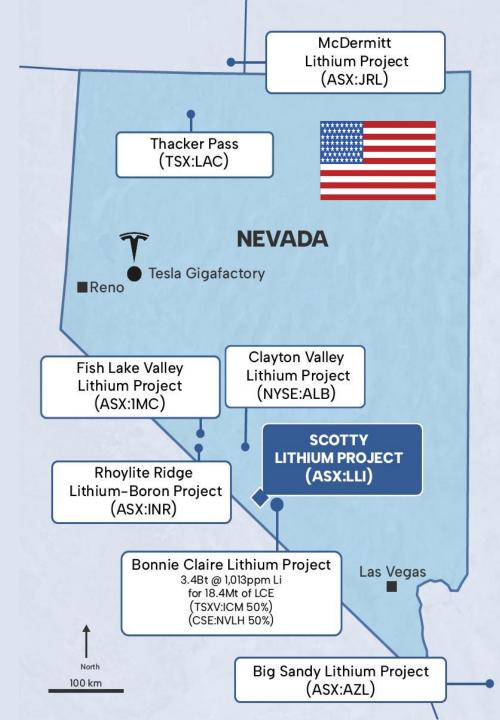
837 Mt

@ 1175 ppm^{1,2,3}

1. At a 700ppm lithium cut-off-grade.

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

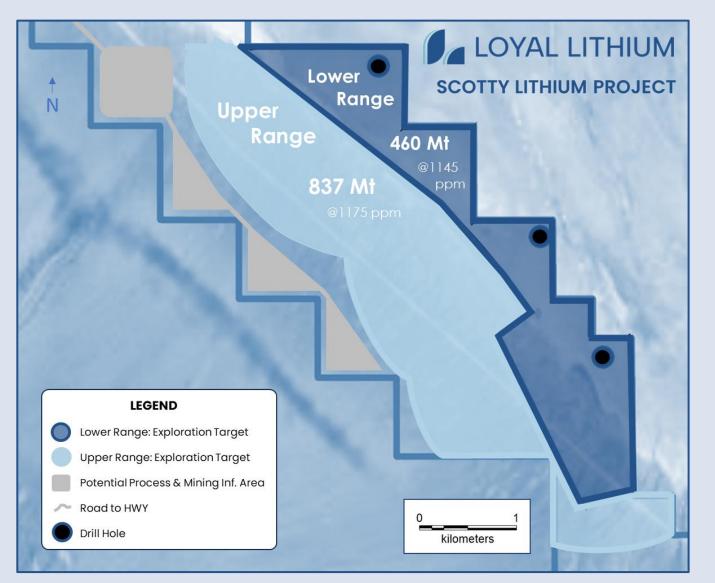
3. LLI ASX Announcement 29 September 2023 - Sediment Hosted Lithium Exploration Target Defined at the Scotty Lithium Project, Nevada, USA.



EXPLORATION TARGET IS LARGE & ROBUST



SHALLOW MINERALISATION - DEVELOPMENT CONCEPTS



SHALLOW MINERALISATION

With strong mineralisation from **near surface** and close to the western edge of the basin, Scotty has the potential to adopt a traditional mining solution which supports strong development concepts.

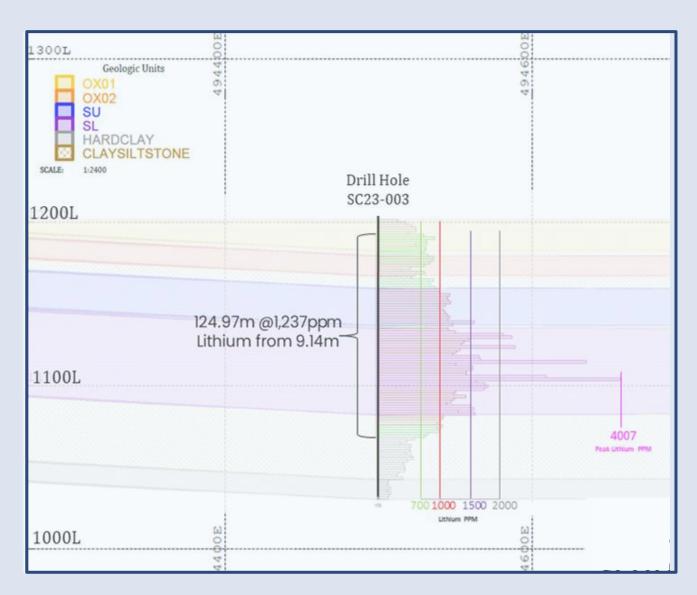
DEVELOPMENT CONCEPTS

- Mining Solution: Traditional Truck & Shovel
 - Like Iron Ore and other bulk commodities
- Mining Parameters: Potentially Low Strip Ratio
 - Mineralisation from near surface
- Process & Mining Infrastructure: Western Edge
 - Alluvial fan basin edge is ideal for entering the potential pit and housing mining & processing infrastructure

DRILLING RESULTS



REPRESENTING SIGNIFICANT RESOURCE POTENTIAL



"The Scotty Lithium Project continues to deliver with outstanding drilling assay results confirming strong lithium mineralisation, representing significant resource potential."

"Nevada lithium is alive, and the Scotty Lithium Project has shown its potential to play a significant role in the emerging North American lithium supply chain."

Adam Ritchie Managing Director Loyal Lithium

Drill Hole	Intercept Metres	Lithium Grade ppm	Depth From metres	Lithium Max Assay ppm over 1.52m
SC23-001	117.35	813	15.24	1,228
SC23-002	82.30	1,106	21.34	2,156
SC23-003	124.97	1,237	9.14	4,007

LITHIUM EXPLORATION



NEWSFLOW AHEAD

Q4 2023

Q1 2024 Q2 2024

ONGOING

Hidden Lake Lithium Project, NWT, Canada

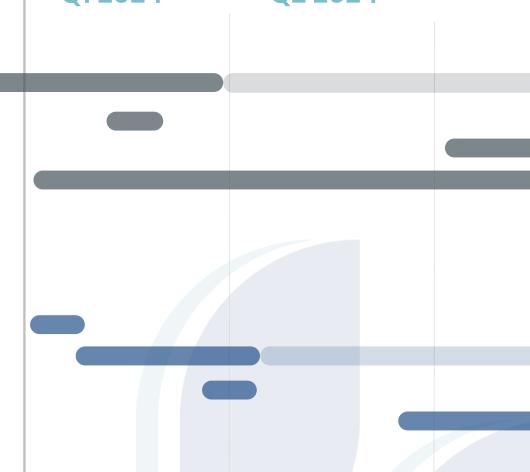
- Winter Drilling Campaign
- Early Drill Core Visuals
- Drill Core Assay Results
- Environmental Baselining

Trieste Lithium Project, James Bay Quebec, Canada

- Fast-Tracked Drilling Campaign
- Field Mapping Assay Results & Interp.
- Fast-Tracked Drilling Core Assay Results & Interp.
- Winter Drilling Campaign
- Winter Drilling Early Drill Core Visuals
- Summer 2024 Field Program (TBD)

Scotty Lithium Project, Nevada, USA

- Exploration Target
- Development Concept Study & Next Steps



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