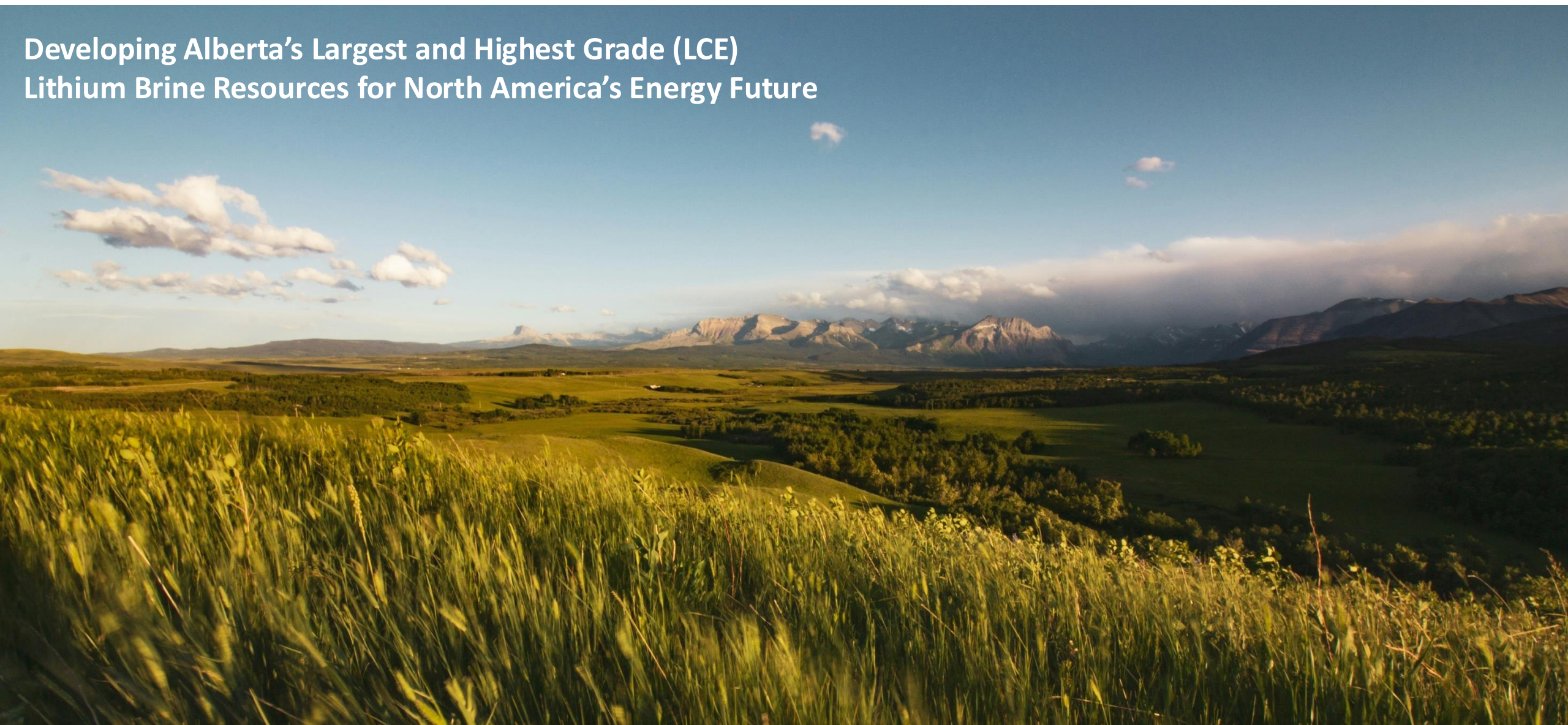


Developing Alberta's Largest and Highest Grade (LCE) Lithium Brine Resources for North America's Energy Future



DISCLAIMER & FORWARD LOOKING STATEMENTS

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The financial information included in this presentation is preliminary, forward-looking, unaudited and subject to revision.

This presentation contains "forward-looking information" and "forward-looking statements" within the meaning of applicable securities legislation (collectively, "forward-looking statements"). The forward-looking statements herein are made as of the date of this presentation only, and the Company does not assume any obligation to update or revise them to reflect new information, estimates or opinions, future events or results or otherwise, except as required by applicable law. Often, but not always, forward-looking statements can be identified by the use of words such as "plans", "expects", "is expected", "budgets", "scheduled", "estimates", "forecasts", "predicts", "projects", "intends", "targets", "aims", "anticipates" or "believes" or variations (including negative variations) of such words and phrases or may be identified by statements to the effect that certain actions "may", "could", "should", "would", "might" or "will" be taken, occur or be achieved. These forward-looking statements include, among other things, statements relating to: (a) the development timelines of the Company's Boardwalk and Park Place projects; (b) the timing of drilling and sampling reservoirs at the Boardwalk Project; (c) the implementation of the pilot plant brine testing and the corresponding expected timeframe; (d) the completion and publishing of an NI 43-101 Resource Estimate on the Park Place project in Q2 of 2024; (e) the expected benefits of the DLE pilot plant; (f) the Company's continued engagement with, and intention to engage, third parties to assist in the development of its products; and (g) the Company's general business plans and objectives. Such forward-looking statements are based on a number of assumptions of management, including, without limitation, that the Company's cost and timing expectations are accurate, that the Company will be able to achieve the expected results and derive the expected benefits from its DLE brine testing plant, that the Company will be successful in the deployment of its resources and personnel, that the timing, receipt and maintenance of approvals, licenses and permits from applicable government, regulatory or administrative bodies will align with management's current expectations; expectations generally about the Company's business plan and its ability to raise further capital for corporate purposes and to support its business plans; and assumptions relating to future financial or operating performance and condition of the Company and its business, operations and properties.

Additionally, forward-looking statements involve a variety of known and unknown risks, uncertainties and other factors which may cause the actual plans, intentions, activities, results, performance or achievements of the Company to be materially different from any future plans, intentions, activities, results, performance or achievements expressed or implied by such forward-looking statements. Such risks include, without limitation: the Company's operations could be adversely affected by possible future government legislation, policies and controls or by changes in applicable laws and regulations; public health crises such as the COVID-19 pandemic may adversely impact the Company's business; the volatility of global capital markets; the failure of the Company to attract and retain skilled personnel; new environmental, health and safety regulations adversely affecting the mineral exploration industry; poor staffing of exploration activities and poor access to services and supplies at its properties; changes in labour costs and other costs and expenses or equipment or processes to operate as anticipated; unanticipated costs; risks of the earlier termination of the Company's material contracts or business arrangements; and the risk factors set out under the heading "Risk Factors" in the Company's final long form non-offering prospectus dated March 1, 2022, available for review on the Company's profile at www.sedarplus.ca, many of which are beyond the ability of the Company to control or predict.

Technical information in this report has been reviewed by Mr. Kevin Piepgrass (Chief Operations Officer, LithiumBank Resources Corp.), who is a Member of the Association of Professional Engineers and Geoscientists of Alberta (APEGA) and the Association of Professional Engineers and Association of Professional Engineers and Geoscientists of the province of BC (APEGBC) and is a Qualified Person (QP) for the purposes of NI 43-101. Mr. Piepgrass consents to the inclusion of the data in the form and context in which it appears.

Mineral resources that are not mineral reserves do not have demonstrated economic viability.

* The mineral resource NI 43-101 Technical Report for the Boardwalk Project, with effective date Dec. 20, 2022, identified 393,000 t LCE Indicated and 5.8 Mt LCE inferred and the NI 43-101 Preliminary Economic Assessment, Technical report, with effective date February 22, 2024, are available on LithiumBank's website (www.lithiumbank.ca/investors/documents) and SEDAR+ (sedarplus.ca)

THE FUTURE OF CANADIAN LITHIUM

Development Agreement (DA) signed with Leading Energy Services and Technology Supplier

- ❖ DA to advance Boardwalk to commercial production
- ❖ Feasibility to be completed in 2026

Boardwalk: The highest-grade lithium project in Alberta

- ❖ Pro-development permitting regime
- ❖ No carbon sequestration (pore space) overlap

Abundant infrastructure

- ❖ Wells, pipelines, roads, power, water

Modular approach with 5,000 tpa LCE units

- ❖ Reduces CAPEX
- ❖ Compelling capital intensity

DLE technology proven at demonstration scale

- ❖ Boardwalk to use process established at commercial operations



CORPORATE PROFILE

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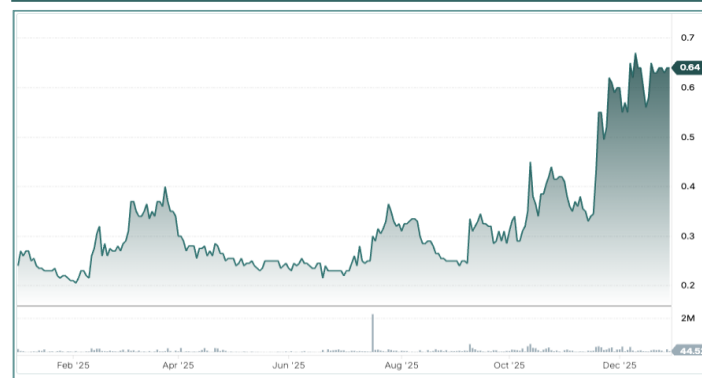
Development History

- ❖ Invested > \$40M in exploration and development
- ❖ Consolidated ~ 1.24M ac of Mineral Licenses
- ❖ Defined two National Instrument (NI) 43-101 lithium Resource Estimates
 - Boardwalk** – 5.2 Mt LCE M&I @ 81.6 mg/L Li & 2.8 Mt LCE Inferred at 79.0 mg/L Li
 - Park Place** – 15.1 Mt LCE Inferred @ 80.0 mg/L Li
- ❖ Boardwalk PEA – February 2024
- ❖ Completed multiple successful DLE piloting campaigns
- ❖ Engaged with SLB, completed feasibility level subsurface modeling and DLE piloting at Boardwalk
- ❖ Acquiring 2nd well for future production
- ❖ DA Signed to develop Boardwalk to Production

LithiumBank Resources Corp.

Share Price	\$0.64
Shares I/O	64.1 MM
Warrants & Options	16.3 MM
Insider Ownership	35%
Market Cap	\$40.4 MM
Debt	None

Share Performance



Boardwalk PEA Metrics

Annual LHM Production	34,005 tonnes
Opex	USD \$4,588/t
Post-Tax NPV ₈	USD \$2.3 BB
Insider Ownership	35%
Payback	3.5 Years

LITHIUMBANK BRINE HOSTED MINERAL LICENSES

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LithiumBank holds 502,082 ha of exploration and development lithium brine licenses in Western Canada

Alberta

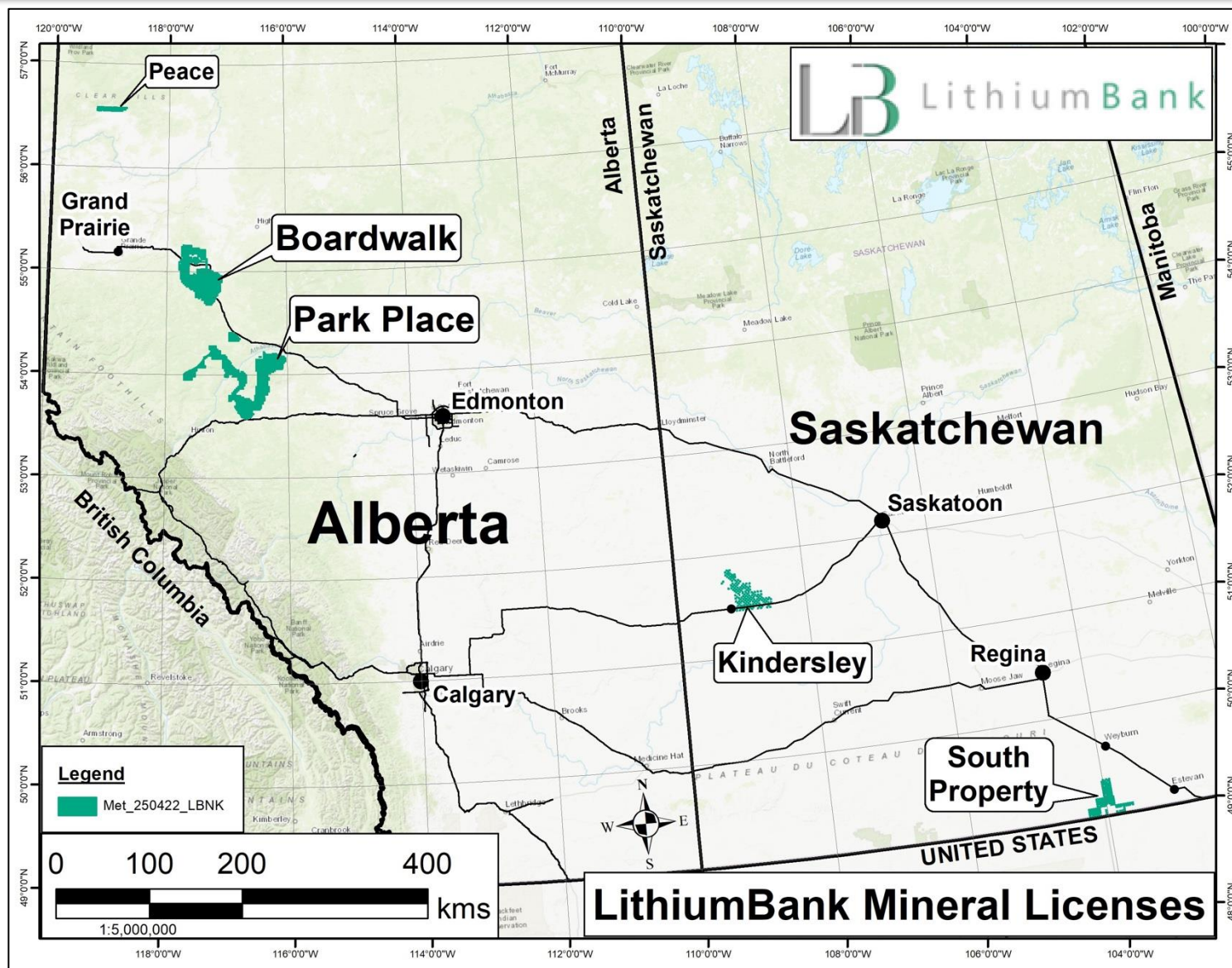
- ❖ Boardwalk: 159,979 ha
- ❖ Park Place: 226,683 ha
- ❖ Peace: 13,920 ha

Saskatchewan

- ❖ Kindersley: 47,306 ha
- ❖ South: 54,193 ha

Development Ready Holdings

- ❖ No carbon sequestration overlap
- ❖ Development ready assets without freehold



BOARDWALK PROJECT AND LEDUC RESERVOIR

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Project Metrics

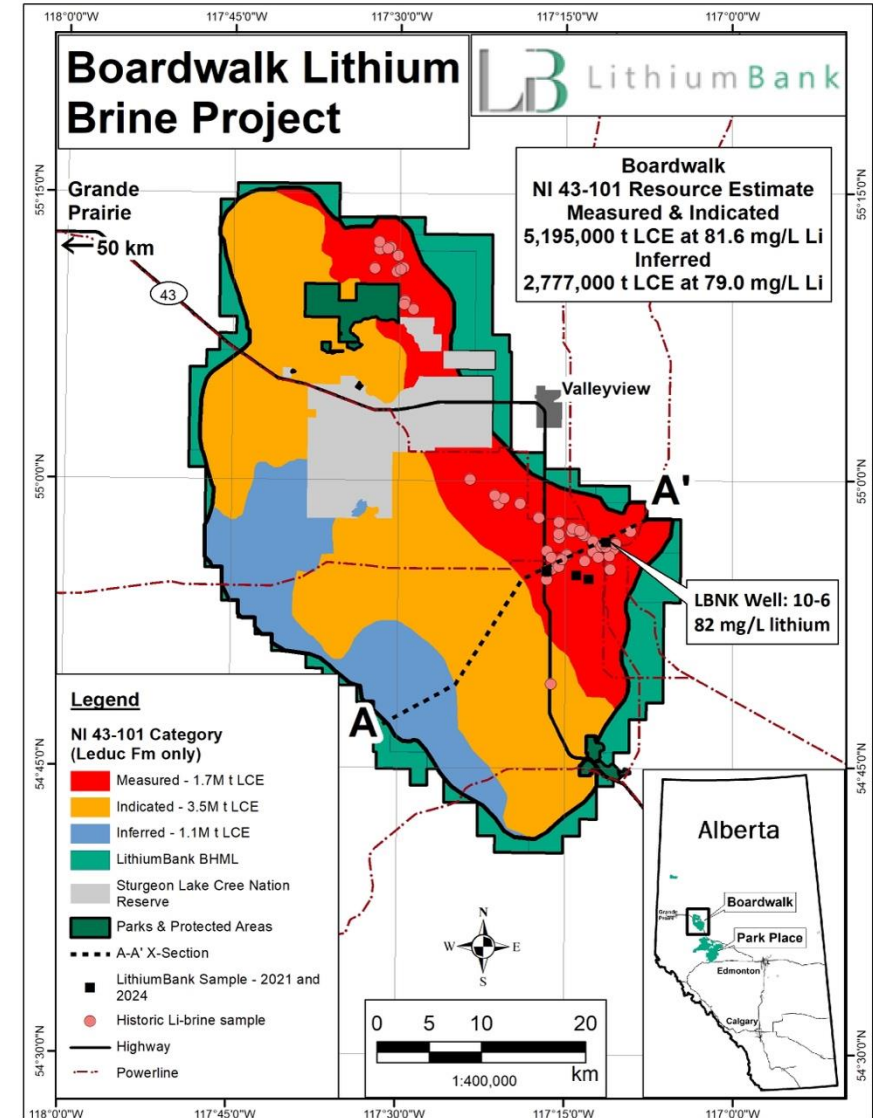
- ❖ Highest Grade M&I Lithium Resource in Alberta
- ❖ 5.2 Mt LCE M&I @ 81.6 mg/L Li & 2.8 Mt LCE Inferred @ 79.0 mg/L Li
- ❖ Planned Production rate of 34,005 tpa over 20 yrs
- ❖ Pre-Tax NPV₈ US\$3.7 Billion and EBITDA US\$715 Million

Leduc Geology

- ❖ Devonian aged dolomitic reef complex
- ❖ Extensive historic hydrocarbon production
- ❖ >400 wells in Leduc
- ❖ Over 230 m thick in project area
- ❖ Consistent deliverability, brine chemistry and lithium grades

Large Land Package And Simple Tenure

- ❖ 395,308 contiguous acres of mineral licenses
- ❖ 100% crown – no freehold royalties
- ❖ No carbon sequestration (pore space) overlap



BOARDWALK DEVELOPMENT AGREEMENT

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Advancing Boardwalk to Commercial Production with Construction Targeted for 2027

Strategic Partnership

- ❖ Signed DA Dec 2025 with Leading Energy Services and Technology Supplier (LESTS)
- ❖ Will develop Boardwalk to Commercial Production
- ❖ Includes attractive DLE royalty-based licensing terms

Why LESTS

- ❖ 100+ years global engineering expertise
- ❖ Leader in industrial + AI-enabled process tech.
- ❖ End-to-end DLE solution: low water/energy use and fewer reagents

Development Plan

- ❖ Initial phase: 2 DLE modules targeting 10,000 tpa LCE
- ❖ Modular: Scalable with 5,000 tpa LCE Units
- ❖ Improves capex efficiency

Technical Progress

- ❖ Complete: Subsurface modeling + extensive DLE testing
- ❖ Demonstrated ability to produce battery-grade LCE with
- ❖ Project will use commercially ready technology

Pathway to Production

FS → Detailed Engineering → Procurement → Phased Construction → Commissioning

BOARDWALK INFRASTRUCTURE

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Tier One Jurisdiction

Location

- ❖ Edmonton (Alberta's Capital City) <3 hour drive
- ❖ Grande Prairie <1 hour drive

Access

- ❖ 4-lane divided highway through production zone

Power

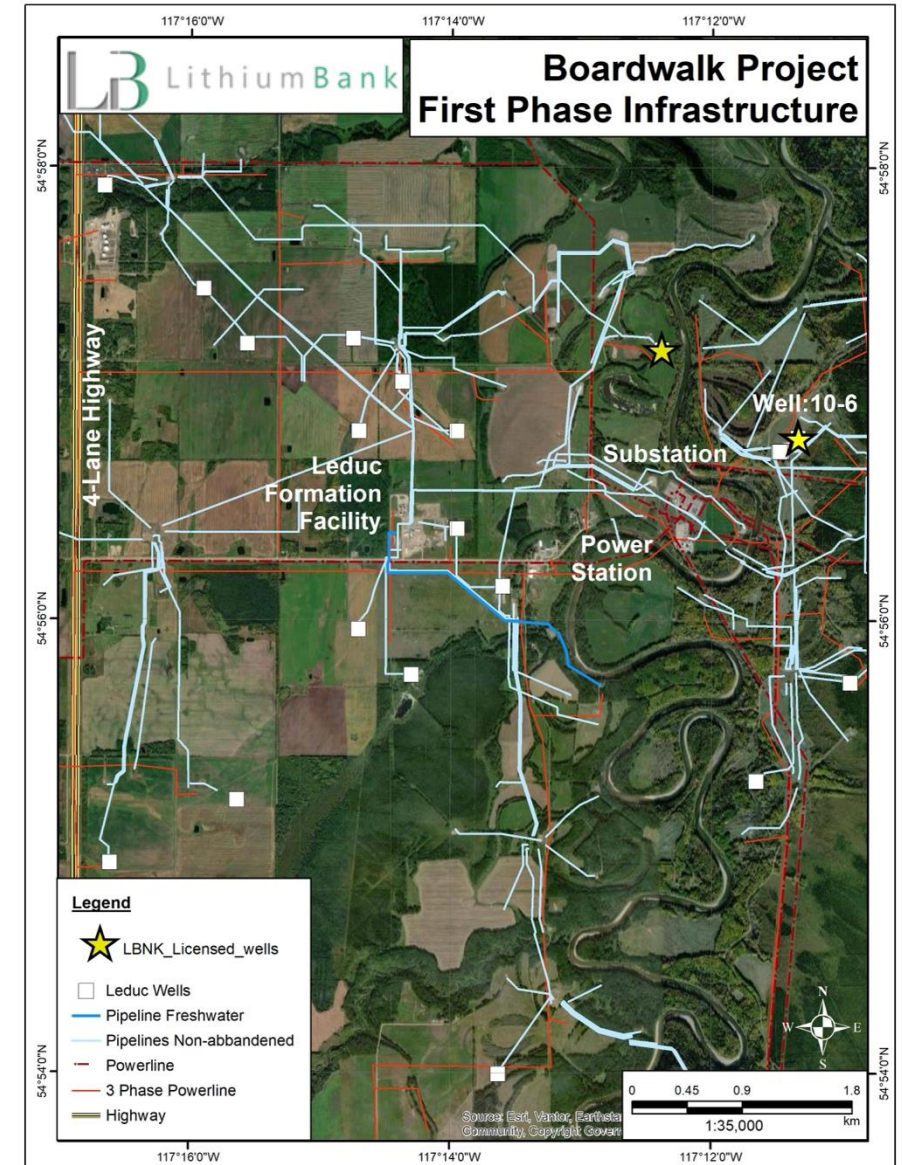
- ❖ 240 kV power lines through production zone

Water

- ❖ Little Smoky River through production zone

Current Infrastructure

- ❖ Leduc facility <3 km from 4-lane divided highway and Smoky substation and power station
- ❖ 3-phase power to most of the well network



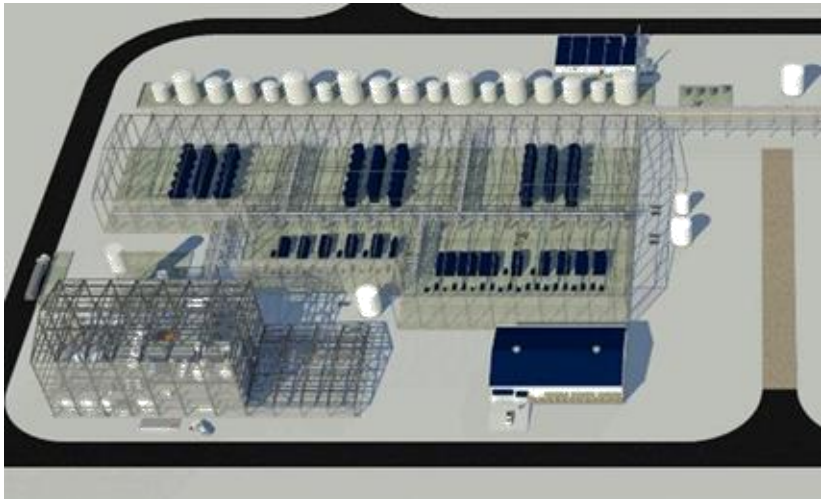
LITHIUMBANK'S DLE ADVANTAGE

SLB DLE-Based Process and Technology
Proven at Demonstration Scale at Clayton Valley

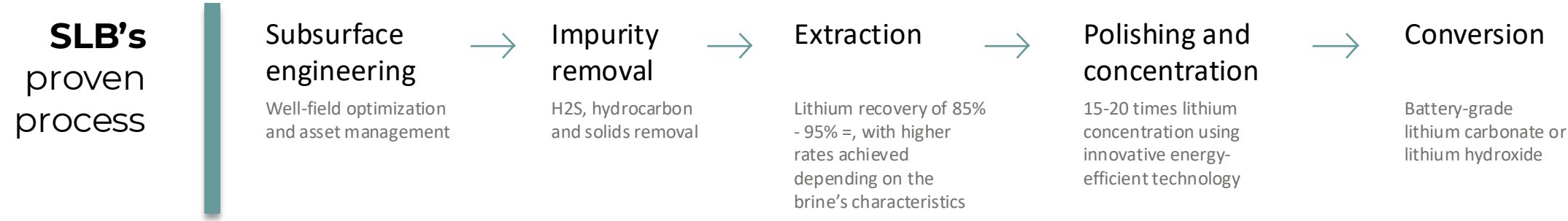


Nevada demonstration plant produced LCE on-site from sub-surface brine

Modular design **ensures cost-effective scalability** aligned with LBNK's growth objectives.

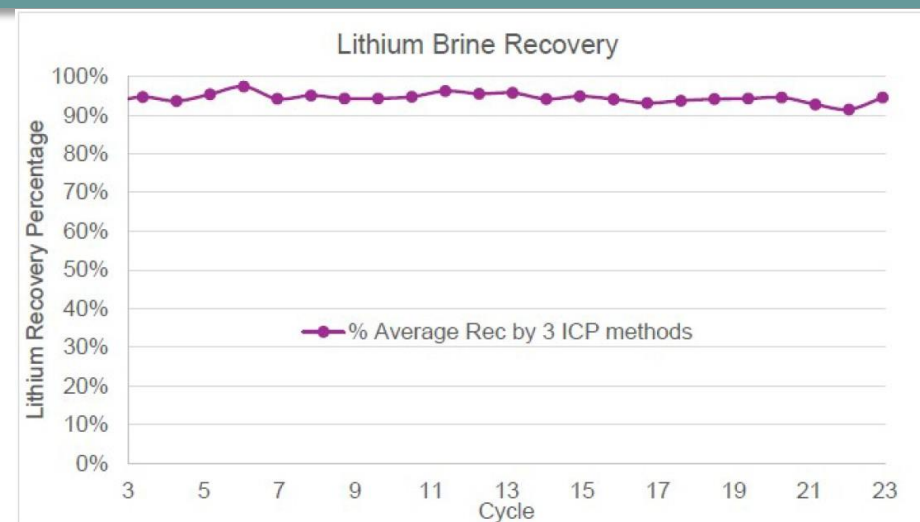


3 modules ~13,500 t LCE/yr

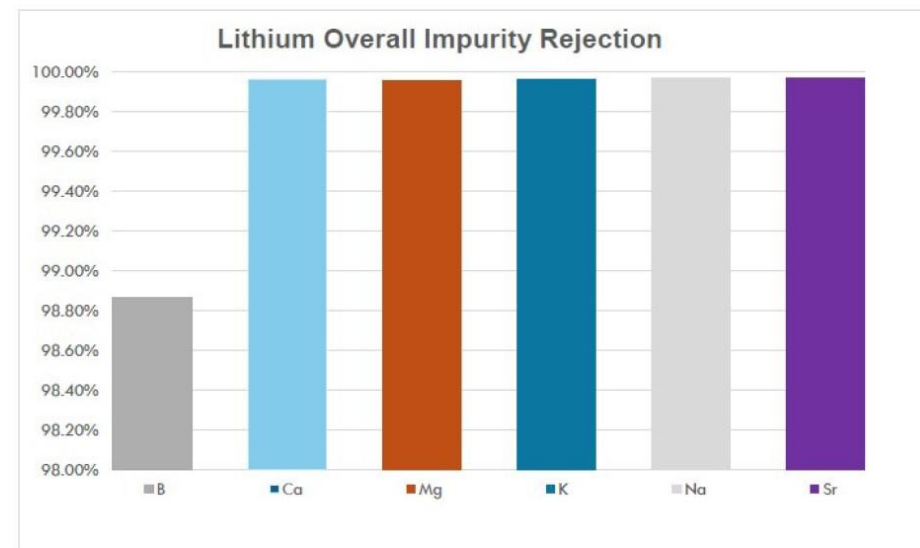


MATURE DLE PROCESSING TECHNOLOGY

- ❖ SLB has long history of working in the Alberta Energy sector
- ❖ LithiumBank has been working with SLB for almost 3-years on the subsurface and DLE
- ❖ Boardwalk brine achieved an exceptionally pure LiCl (eluate) product and 95% lithium recovery from recent pilot testing using SLB/ILiAD DLE technology
- ❖ DLE concentrates brine ~12x
- ❖ Second pilot campaign to commence December 2025 for optimization and downstream piloting to a battery grade Li_2CO_3
- ❖ SLB has built a demonstration scale pilot that is at 1/10th scale of a commercial scale module (Clayton Valley Nevada)
- ❖ Largest lithium brine demonstration pilot in the world which ran for ~1-year and produced ~10 tonnes lithium carbonate).



95% average Li recovery from SLB pilot testing



99.9% average overall impurity rejection

PARK PLACE PROJECT

Project Metrics

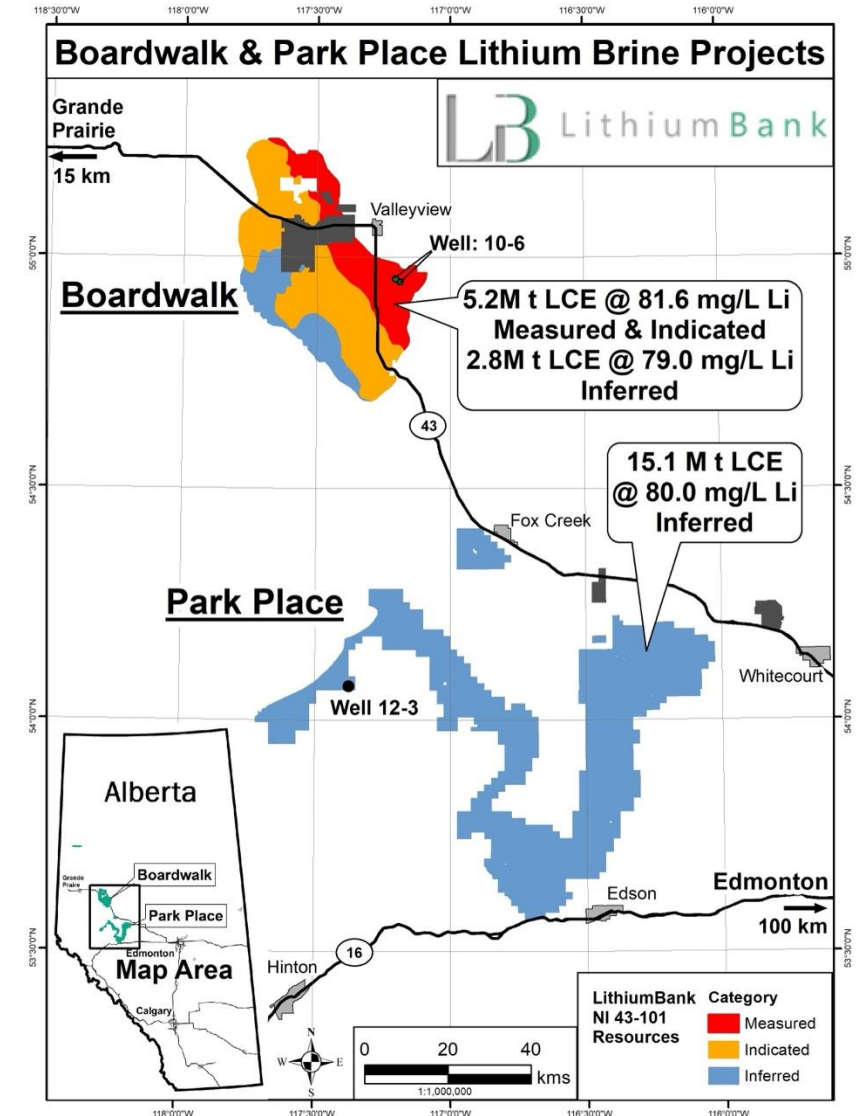
- ❖ High Grade Alberta resource
- ❖ 80.0 mg/L in the Leduc Fm and 79.4 mg/L in the Swan Hills Fm
- ❖ 15.1 Mt LCE Inferred @ 80.0 mg/L Li
- ❖ 3D & 2D seismic over 450 wells with 40 Li brine samples
- ❖ Reservoir >350 m thick in potential production

Large Land Package And Simple Tenure

- ❖ 538,359 contiguous acres of mineral licenses
- ❖ 100% crown – no freehold royalties
- ❖ No carbon sequestration (pore space) overlap

Recent Highlights

- ❖ SLB - DLE pilot test confirms ~95% lithium recovery and > 99% impurity rejection



MILESTONES ACHIEVED AND 2026 OBJECTIVES

Pathway to Commercial Production with Construction Targeted for 2027

Recent Accomplishments

Boardwalk Development Agreement

- ❖ DA to advance Boardwalk to commercial production

Boardwalk PEA

- ❖ Pre-Tax NPV₈ US\$3.7 Billion and EBITDA US\$715 Million
- ❖ 34,005 tpa over 20 yrs

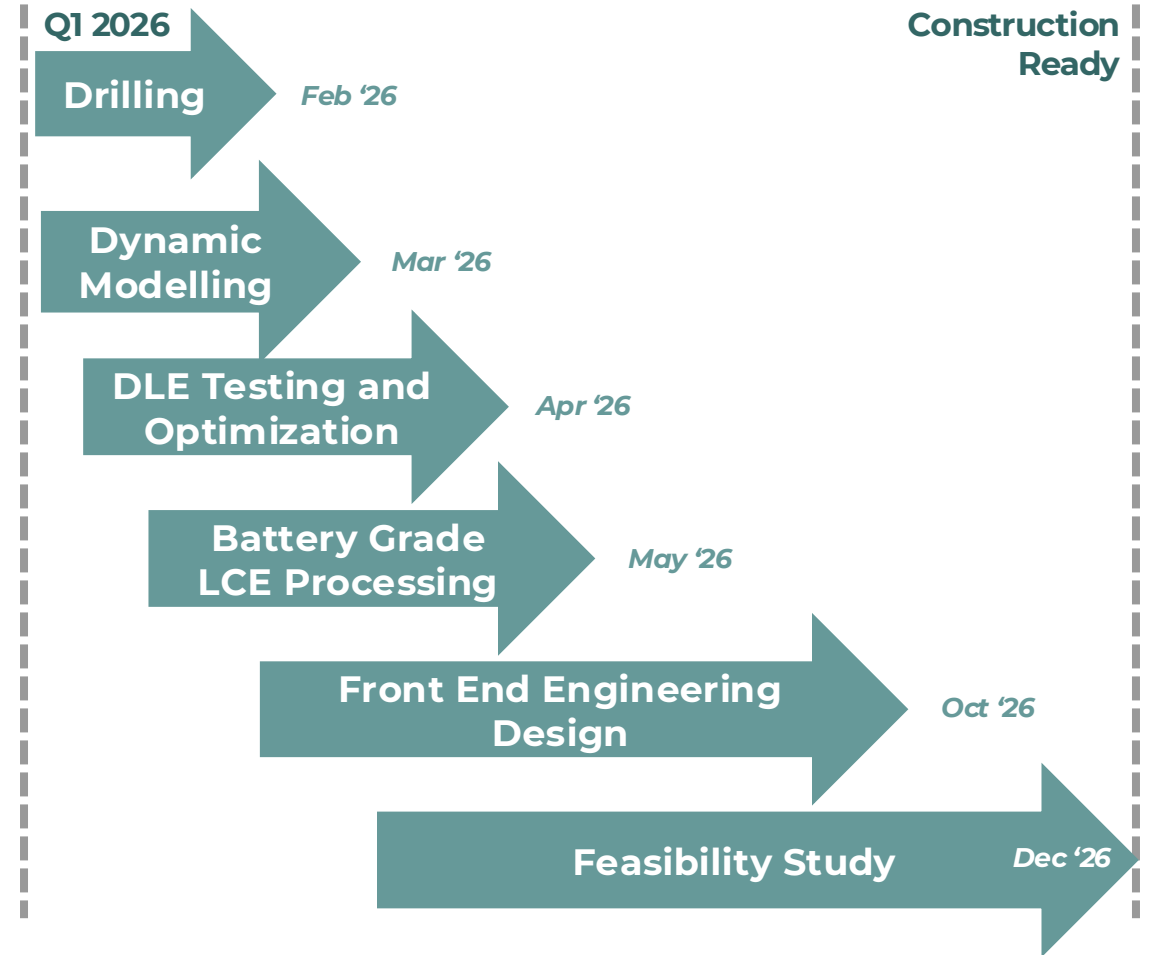
Park Place Resource

- ❖ Mt 15.1 LCE Inferred @ 80.0 mg/L Li

DLE Pilot Testing

- ❖ Complete end-to-end solution flowsheet proven

2026 Objectives



NORTH AMERICAN LITHIUM RESOURCES

LithiumBank holds the largest brine (LCE) resources by any company in North America

Boardwalk

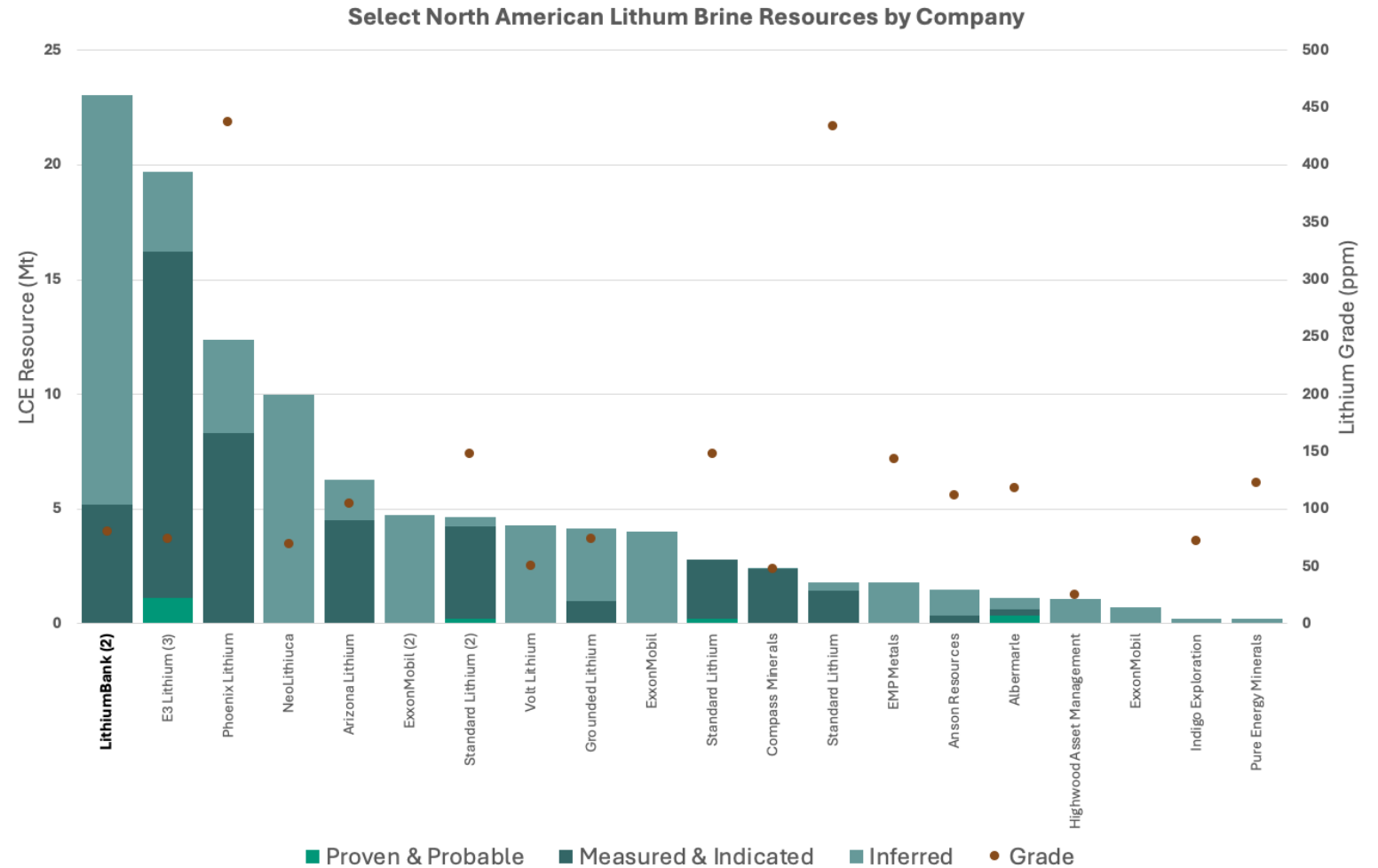
- ❖ 5.2 Mt LCE Measured & Indicated @ 81.6 mg/L Li
- ❖ 2.8 Mt LCE Inferred @ 79.0 mg/L Li

Park Place

- ❖ 15.1 Mt LCE Inferred @ 80.0 mg/L Li

Total

- ❖ 5.2 Mt LCE M&I
- ❖ 17.9 Mt LCE Inferred



ALBERTA – TIER ONE JURISDICTION

Provincial Funding Committed and Received for Development

Financing of Additional Brine Well

- ❖ ~\$2,500,000
- ❖ 50% refund from Emissions Reduction Alberta (ERA)

DLE & Mineral Processing to Battery-grade LCE

- ❖ \$850,000
- ❖ 50% refund from ERA

Feasibility Study, FEED, and FID

- ❖ ERA to refund 50% of expenditures up to \$2,100,000
- ❖ Additional funding opportunities in progress



“LithiumBank’s pilot plant is an important advancement for Alberta’s diverse energy and mineral landscape. We are a global leader in ethically produced energy and are working to be at the forefront of the development of energy transition minerals. This is another example of Alberta innovation and helping produce global solutions to reduce emissions”

Alberta Energy Minister Brian Jean
LithiumBank Facility July 10, 2024



LithiumBank continues to advocate for a competitive development environment

Meeting with Alberta
Premier Danielle Smith
July 15, 2025

Keystone holdings in an emerging lithium brine district

Kindersley

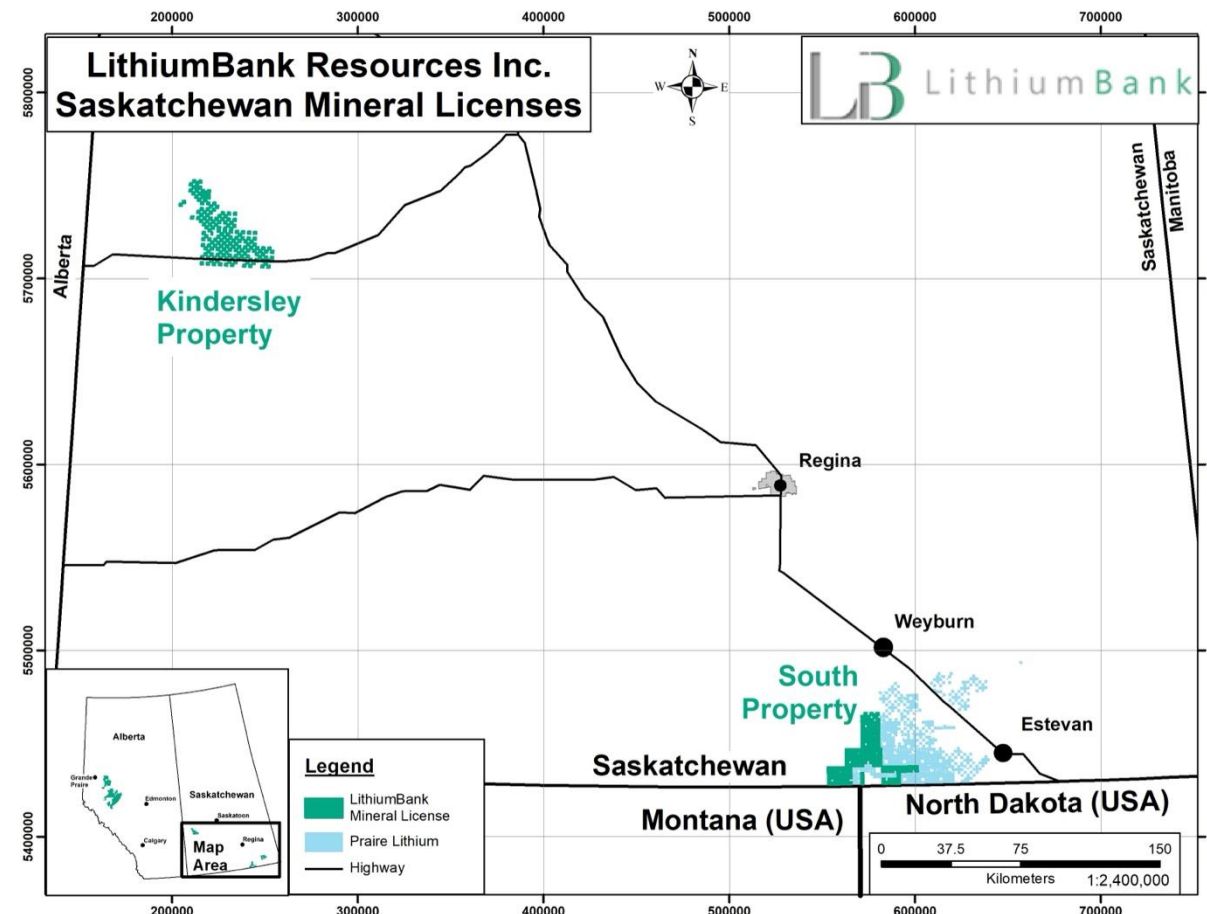
- ❖ 116,845 acres of Crown Land
- ❖ Adjacent to Grounded Lithium/Denison Mines PEA-level project

South

- ❖ 133,858 acres of Crown Land
- ❖ Adjacent to Prairie Lithium (ASX:PL9) core production area

Regional Transactions

- ❖ LithiumBank sold its Estevan project for \$15M in April 2024



PARTNERSHIPS

SLB



LithiumBank engaged SLB to complete a NI 43-101 Resource Estimate which includes detailed subsurface reservoir modeling, 3D seismic interpretation, and DLE test work.

Hatch



Hatch was engaged by LithiumBank to assess DLE processes and authored Boardwalk's updated PEA published in January 2024

Invest Alberta



LithiumBank signed a non-binding MOU with Invest Alberta to support the development of commercial lithium production.

ZS2 Technologies



Signed a nonbinding MOU with ZS2 to combine technologies to capture CO2 from LBNK, extract Mg from brine and sequester CO2 in Mg cement

LIHTIUMBANK TEAM



Paul Matysek, M.Sc. (Geochem) Executive Chairman

Mr. Matysek is a geoscientist by training, a successful alpha entrepreneur and consistent creator of shareholder value with over 40 years of experience in the mining industry. Since 2007, as either CEO or Executive Chairman, Mr. Matysek has sold six publicly listed mineral exploration and development companies, in aggregate worth over \$2.5 billion.



Rob Shewchuk Co-Founder, CEO & Director

Mr. Shewchuk began his career as a licensed Equities Trader and Stockbroker with Yorkton Securities in Calgary, Alberta in 1996. He joined Standard Securities Capital Corporation in 2004 and became Chairman in 2007. He merged Standard with Wolverton Securities Ltd. in 2009 where he was a Managing Director until it was sold to PI Financial Corp with \$6 Billion in AUM in 2016.



Kevin Piepgrass, P.Geo Chief Operating Officer

University of Alberta Graduate and Professional Geologist, registered at APEGBC & APEGBC. Over 20 years of experience managing the exploration and development of commodities including gold, silver, copper, lithium and rare earth elements. Mr. Piepgrass is a Qualified Person pursuant to National Instrument 43-101 standards for disclosure for mineral projects.



Christopher Murray
Director



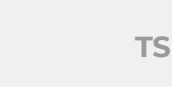
**Steven Piepgrass,
P.Eng, MBA**
Director



Katya Zotova
Director



Ann Fehr
CFO & Corp. Sec.



Jon LaMothe, M.Sc
VP Exploration

Leo Karabelas
Investor Relations

Nikolas Matysek
Director of
Communications



LITHIUM MARKET FUNDAMENTALS

Market Drivers

- ❖ Transportation, electrification and EV mandates will drive increasing demand for Lithium
- ❖ Continued global trade decoupling will increase the importance of domestic supply
- ❖ Demand is anticipated to outstrip supply from all sources by 2027
- ❖ Past lithium cycles have generated significant returns from trough to peak

North American Market Support

May 2025

Canada Commits \$550M to Critical Minerals Funding

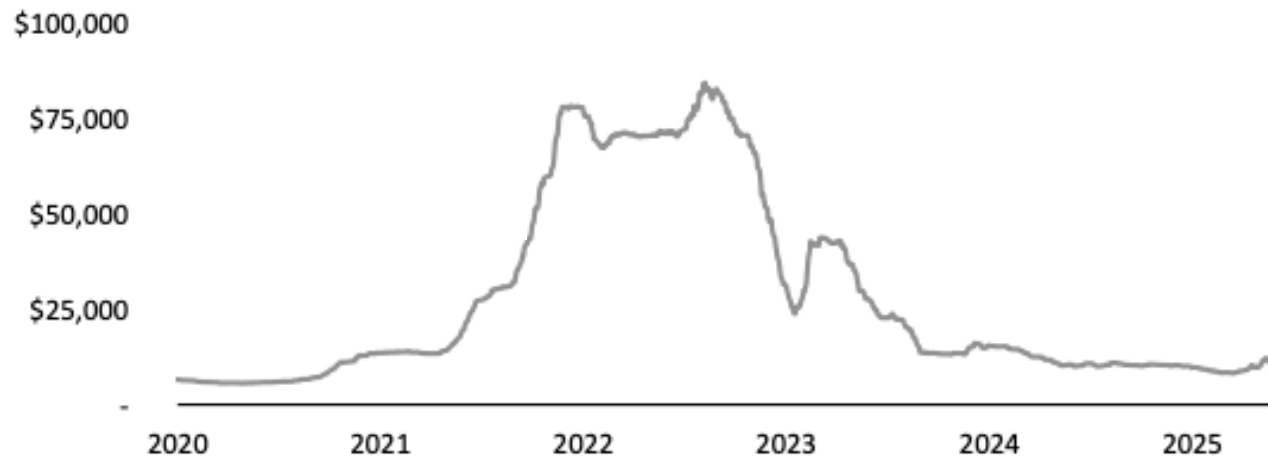
June 2025

G7 Critical Minerals Action Plan

August 2025

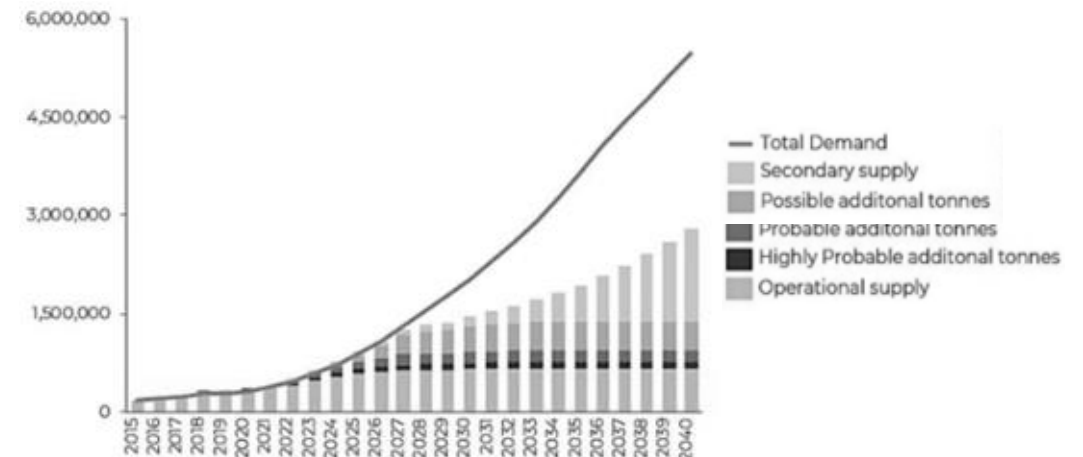
U.S. DOE \$1B Funding for Critical Minerals

Historical LCE Price Performance (USD/t)¹



1. Bloomberg Market data as of September, 2025
2. Source: Benchmark Mineral Intelligence

Supply Deficit²



INVESTMENT HIGHLIGHTS

Development Agreement signed with Leading Energy Services and Technology Supplier

Development Agreement to advance Boardwalk to **commercial production**
Feasibility to be completed in **2026**

Largest brine LCE Resources in North America and highest-grade lithium project in Alberta

Pro-development permitting regime
No CCUS/pore space overlap, freehold or **oil production**

Tier 1 jurisdiction with abundant infrastructure

Wells, pipelines, roads, power, water

Modular deployment

Reduces CAPEX
Compelling **capital intensity**

Proven Management Team

Created **>\$2B** in shareholder value over **8 transactions**

Contact Us

✉ rob@lithiumbank.ca

