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LB Lithium Bank

Developing a Large Portfolio
of Deep Brine Lithium Projects
in North America

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🌐 www.LithiumBank.ca

December 2025



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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)

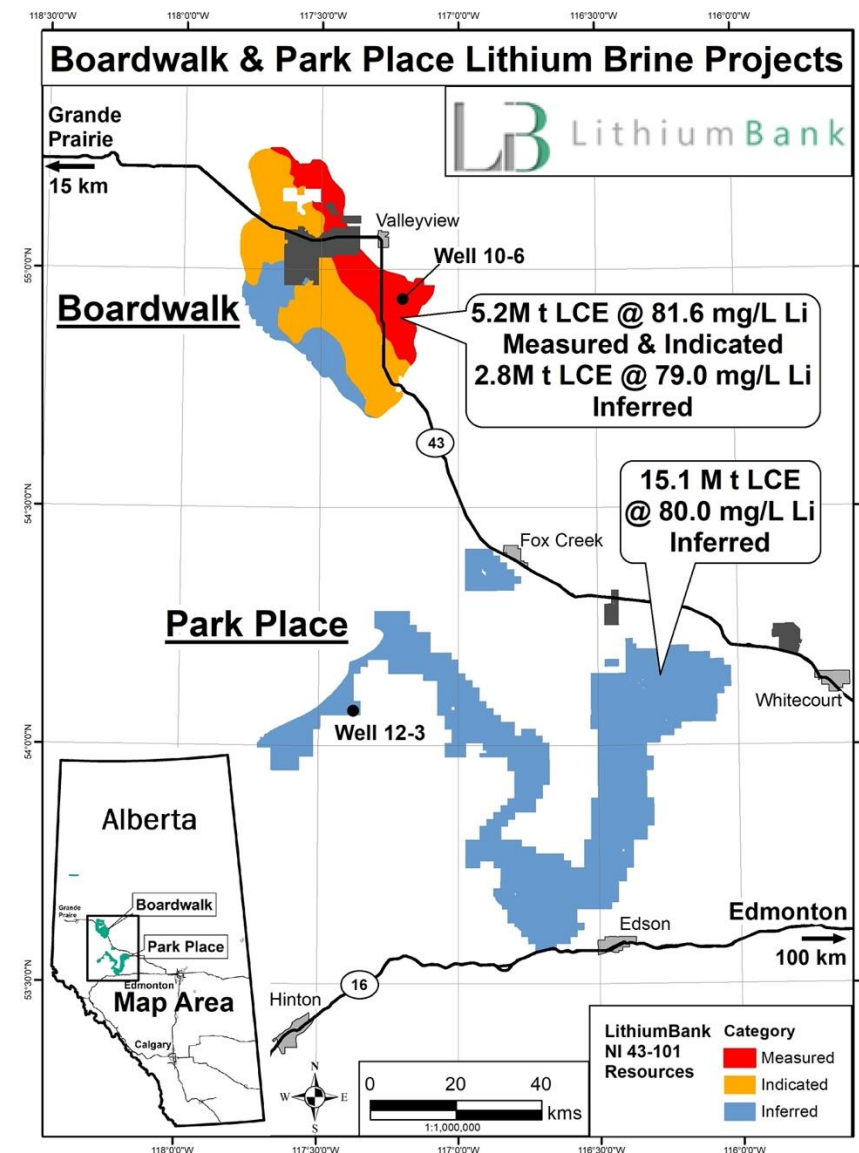
LithiumBank Highlights

- ❖ Development Agreement (DA) signed with Leading Energy Services and Technology Supplier (LESTS) to advance Boardwalk to commercial production
 - ❖ Feasibility to be completed in 2026
- ❖ Management team experienced in identifying and delivering producing assets
- ❖ **Boardwalk**: The highest-grade lithium brine project in Alberta
- ❖ The most straight forward project to permit (2-years)
 - NO CCUS/pore space overlap
 - NO freehold land in the area
 - NO oil production
- ❖ Abundant infrastructure within project area
 - Wells, pipelines, roads, power, water
- ❖ Modular approach with 5,000 tpa LCE per module
 - Multiple modules possible on Boardwalk
- ❖ Low initial CAPEX
- ❖ DLE technology proven at demonstration scale



Since Founding in 2019, LithiumBank Has:

- ❖ Invested > \$40M in exploration and development
- ❖ Consolidated ~ 1.24M ac (from 4.2M ac) of Brine Hosted Mineral Licenses (“BHML”) focusing on Boardwalk and Park Place located near Grande Prairie, Alberta
- ❖ Defined two National Instrument (NI) 43-101 brine hosted lithium Resource Estimates.
 - **Boardwalk** - 5.2 Mt LCE Measured and Indicated, the highest lithium grade in Alberta, @ 81.6 mg/L lithium & 2.8 Mt Inferred at 79.0 mg/L lithium (Feb. 20, 2025)
 - **Park Place** – 15.1 Mt LCE Inferred at 80.2 mg/L Li
- ❖ Published a Preliminary Economic Assessment (PEA) at Boardwalk (February 2024)
- ❖ Completed multiple successful DLE piloting campaigns and achieved battery grade lithium carbonate
- ❖ Engaged with SLB, completed feasibility level subsurface modeling and DLE piloting at Boardwalk
- ❖ Acquiring 2nd well to use as future production well



LithiumBank – Development Agreement (DA)

ADVANCING BOARDWALK TO COMMERCIAL PRODUCTION WITH PROJECT EXECUTION TARGETED FOR 2027

Strategic Partnership

- DA Signed Dec 2025 with Leading Energy Services and Technology Supplier (LESTS)
- to Develop Boardwalk to Commercial Production Includes binding DLE licensing terms

Development Plan

- Initial phase: two DLE modules targeting 10,000 tpa LCE
- Modular approach enables scalable 5,000 tpa LCE increments with improved capex efficiency.

Why LESTS

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

Technical Progress

- Culmination of 3 years of collaboration: subsurface modeling + extensive DLE testing completed.
- Demonstrated ability to produce battery-grade lithium carbonate with commercial ready technology

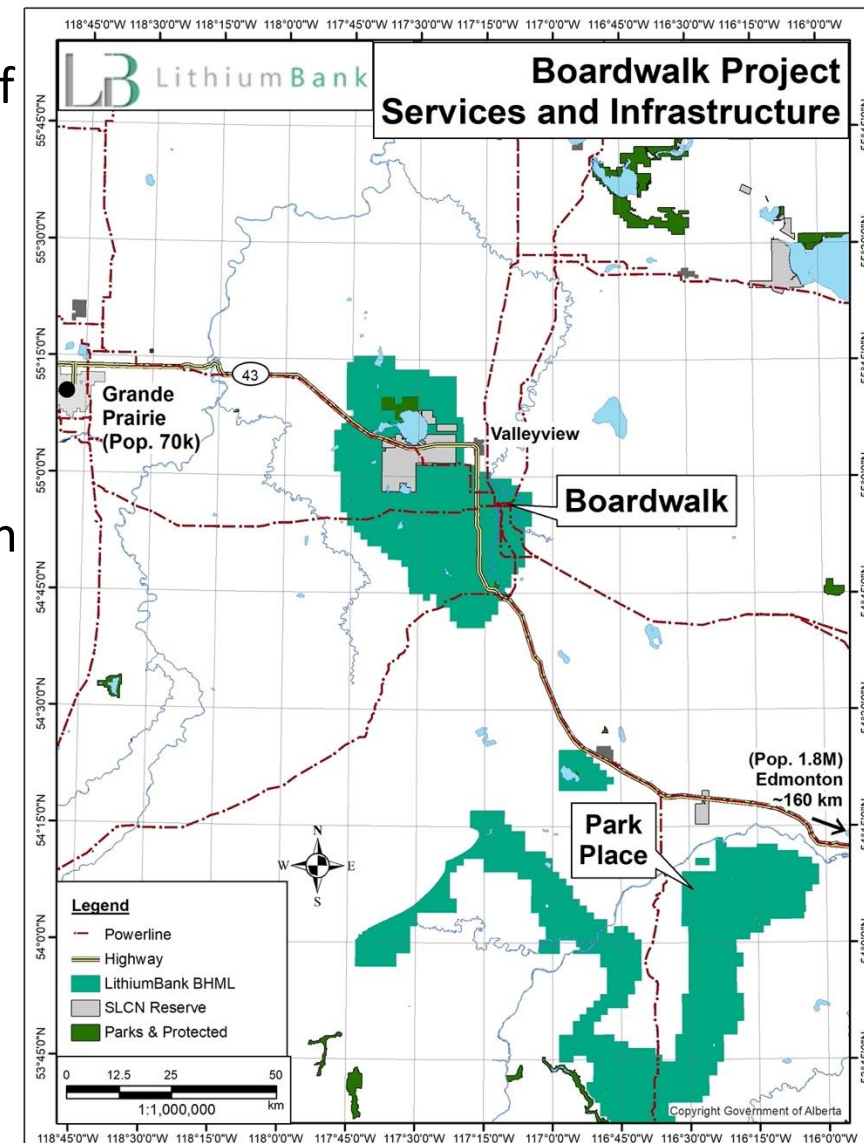
Path to Production

- FS → Detailed Engineering → Procurement → Phased Construction → Commissioning

Infrastructure and Services

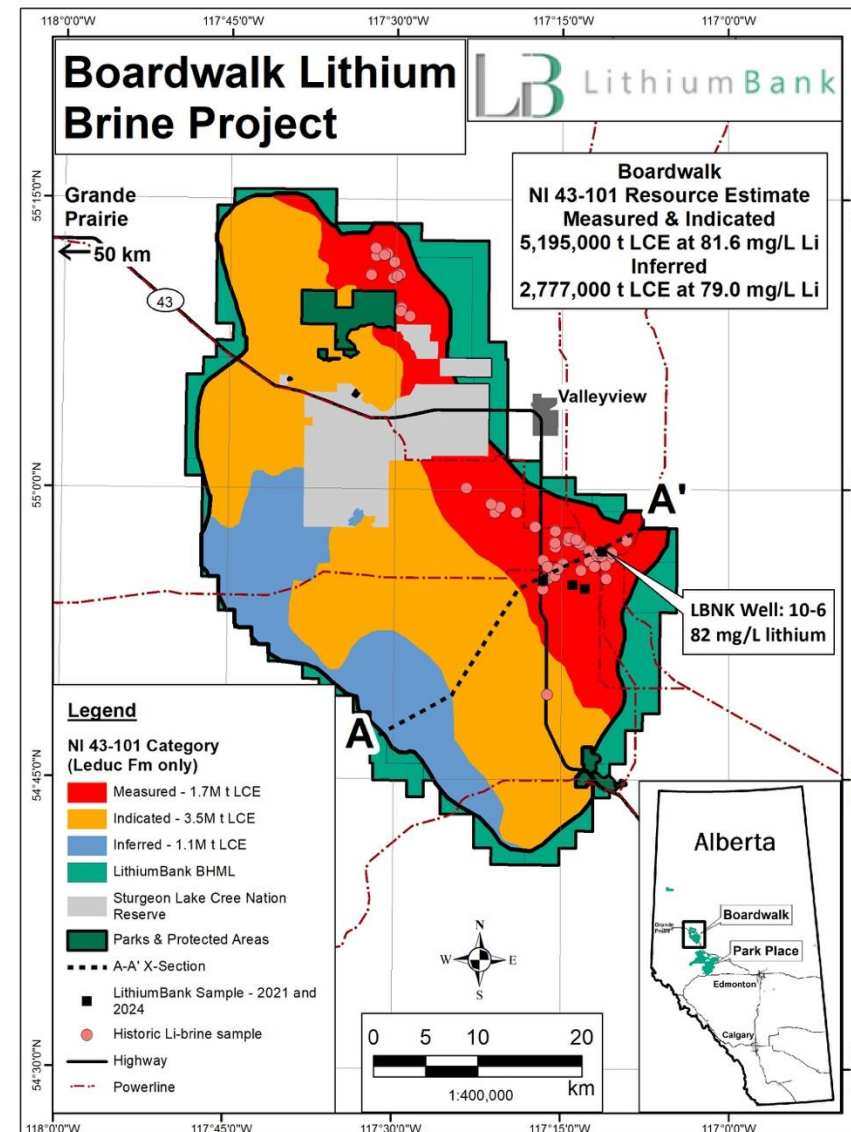
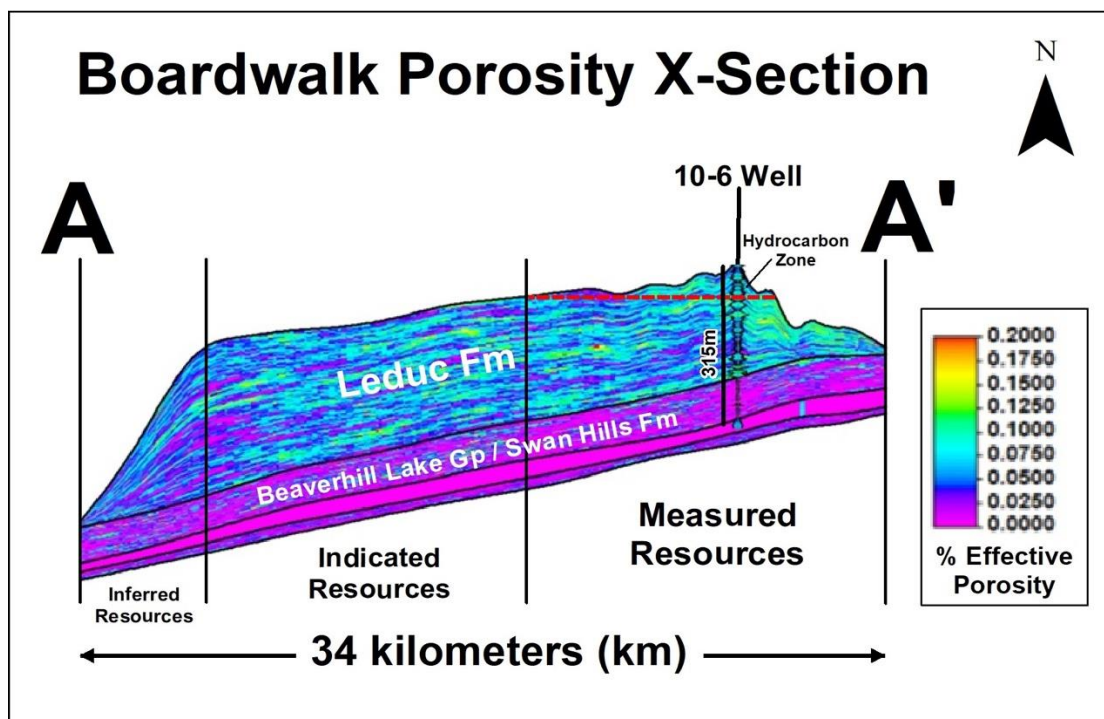


- ❖ Location: Edmonton (population of metro area 1.8M) ~2.5-hour drive from Boardwalk
- ❖ Grande Prairie City (population ~70k) <1 hour drive
- ❖ Access: 4-lane divided highway through production zone
- ❖ Power: 240 kV power lines through production zone
- ❖ Water: Little Smoky River through production zone
- ❖ Leduc facility ~2.5 km from 4-lane divided highway and Smoky substation and power station
- ❖ 3-phase power to most of the well network



Boardwalk Project - Geology

- ❖ Devonian aged Leduc Fm
- ❖ Dolomitized reef
- ❖ >400 wells in Leduc
- ❖ Extensive data set of historic production
- ❖ Over 230m thick Leduc Fm
- ❖ Consistent deliverability over the long-term
- ❖ Consistent lithium grades
- ❖ Consistent brine chemistry



PARK PLACE PROJECT

ONE OF THE LARGEST KNOWN REPORTED NI 43-101
INFERRED LITHIUM BRINE RESOURCE ESTIMATES IN
NORTH AMERICA AT 15.1 M TONNES LCE AT 80.0 MG/L LI

Project Highlights:

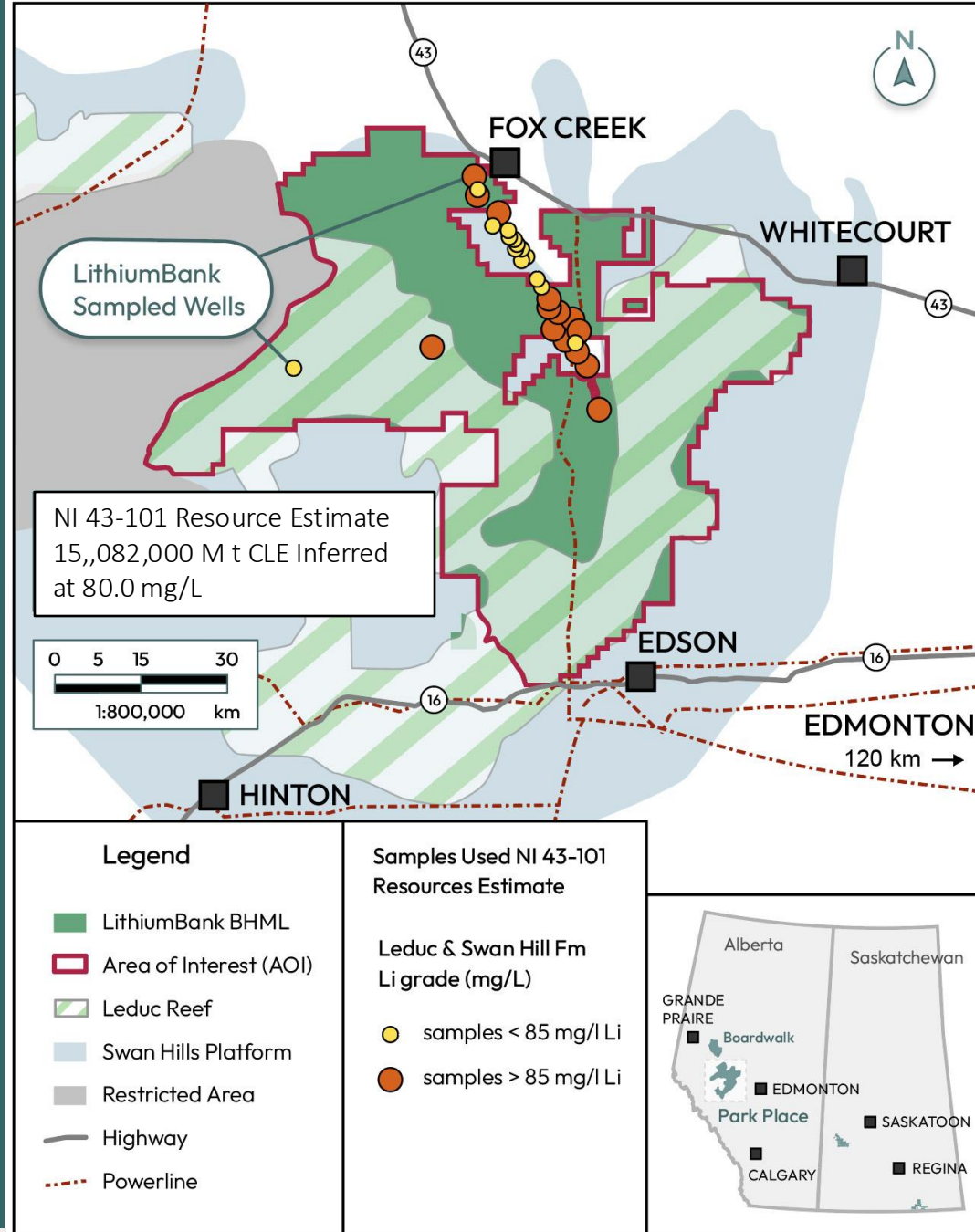
- Among the highest-grade lithium resource estimates in Alberta at 80.0 mg/L in the Leduc Fm and 79.4 mg/L in the Swan Hills Fm
- SLB conducted subsurface reservoir modelling aided by 3D & 2D seismic over 450 wells with 40 Li brine samples
- Multiple areas of >350m in combined reservoir thickness to be considered for PEA

Recent Highlights:

- DLE pilot test confirms up to 95% lithium recovery and over 99% impurity rejection from DLE pilot testing using SLB's integrated lithium production solution technology

Large Land Package & Simple Tenure:

- 538,359 contiguous acres BHML's
- 100% owned crown/no freehold royalties
- NO CCUS overlap and O&G production in resource area



Significant Lithium Brine Resources In North America

LithiumBank is among the global leaders in corporate holdings of lithium (LCE) resources

Boardwalk

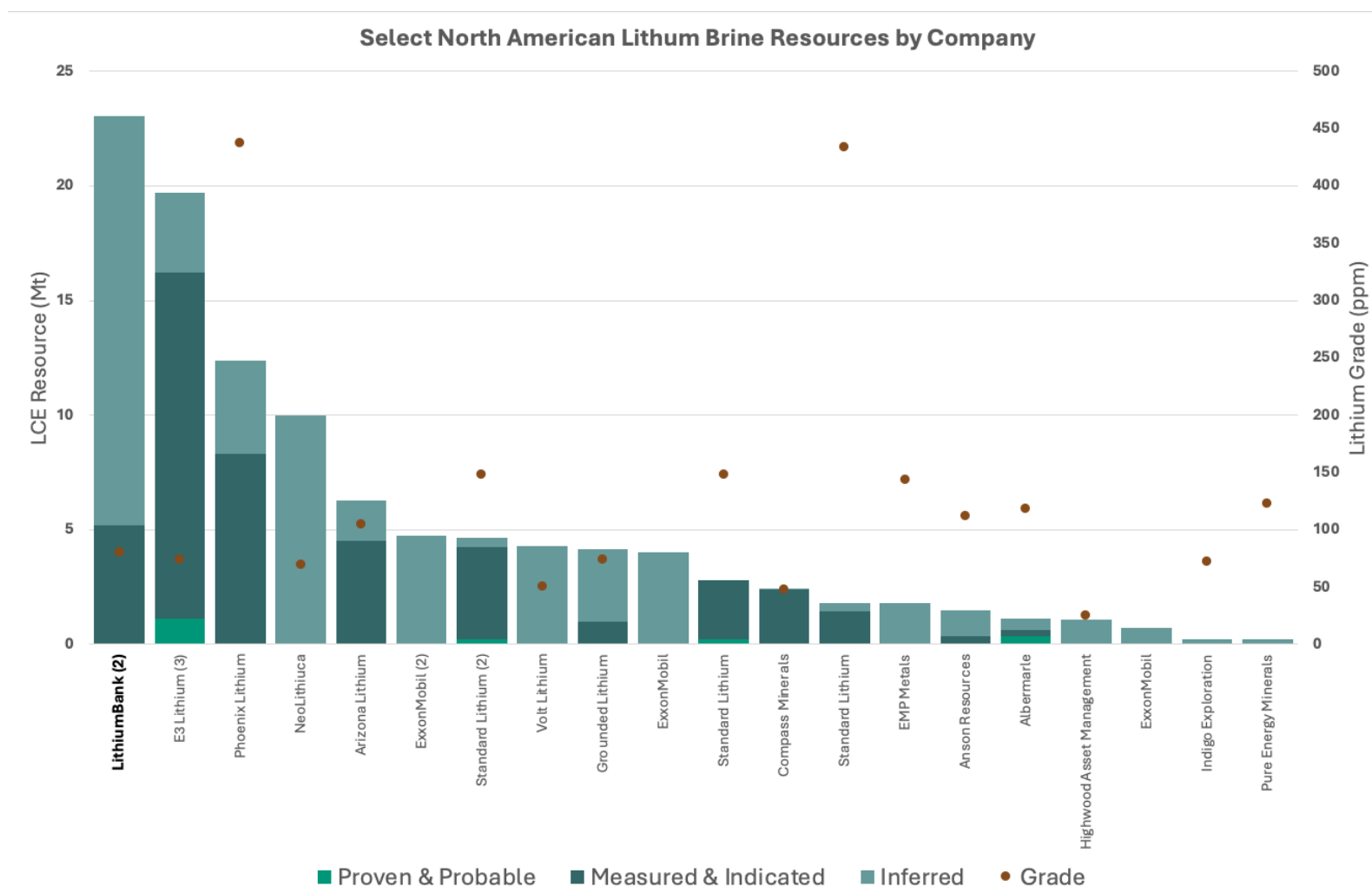
- ❖ 5.2 Mt LCE Measured & Indicated @ 81.6 mg/L Li
- ❖ 2.8 Mt LCE Inferred @ 79.0 mg/L Li

Park Place

- ❖ 15.1 Mt LCE Inferred
- ❖ Inferred
- ❖ At 80.0 mg/l Li

Total

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



Alberta Support for LithiumBank

Drilling 2nd Well

- ❖ ~\$2,500,000
- ❖ Emissions Reduction Alberta (ERA) to refund 50% of these costs

DLE & Mineral Processing to Battery-grade Li Carbonate

- ❖ \$850,000
- ❖ ERA to refund 50% of these costs

Feasibility Study, FEED (FEL 3), and FID

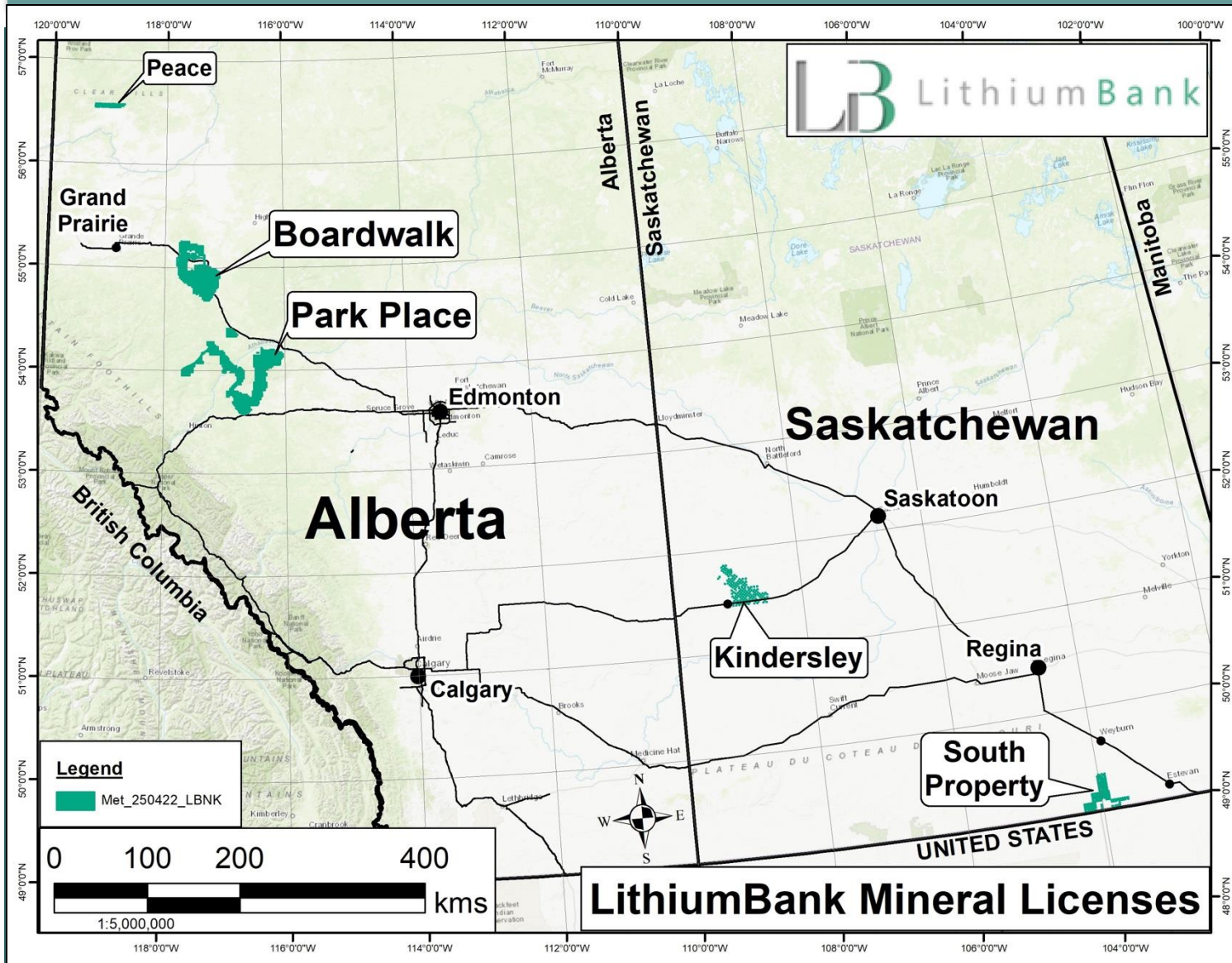
- ❖ ERA to refund \$2,100,000
 - ❖ PrairiesCan application pending

Continuous Communication with Alberta government to create the most competitive development environment



July 15th, 2025, LithiumBank meeting with Premier Danielle Smith

LithiumBank Brine Hosted Mineral Licenses



Alberta BHML

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

NO Pore space or CCUS overlap
NO Freehold land in area

Saskatchewan BHML

- Kindersley – 47,306 ha
- South – 54,193 ha

Total = 502,082 ha

SASKATCHEWAN ASSETS

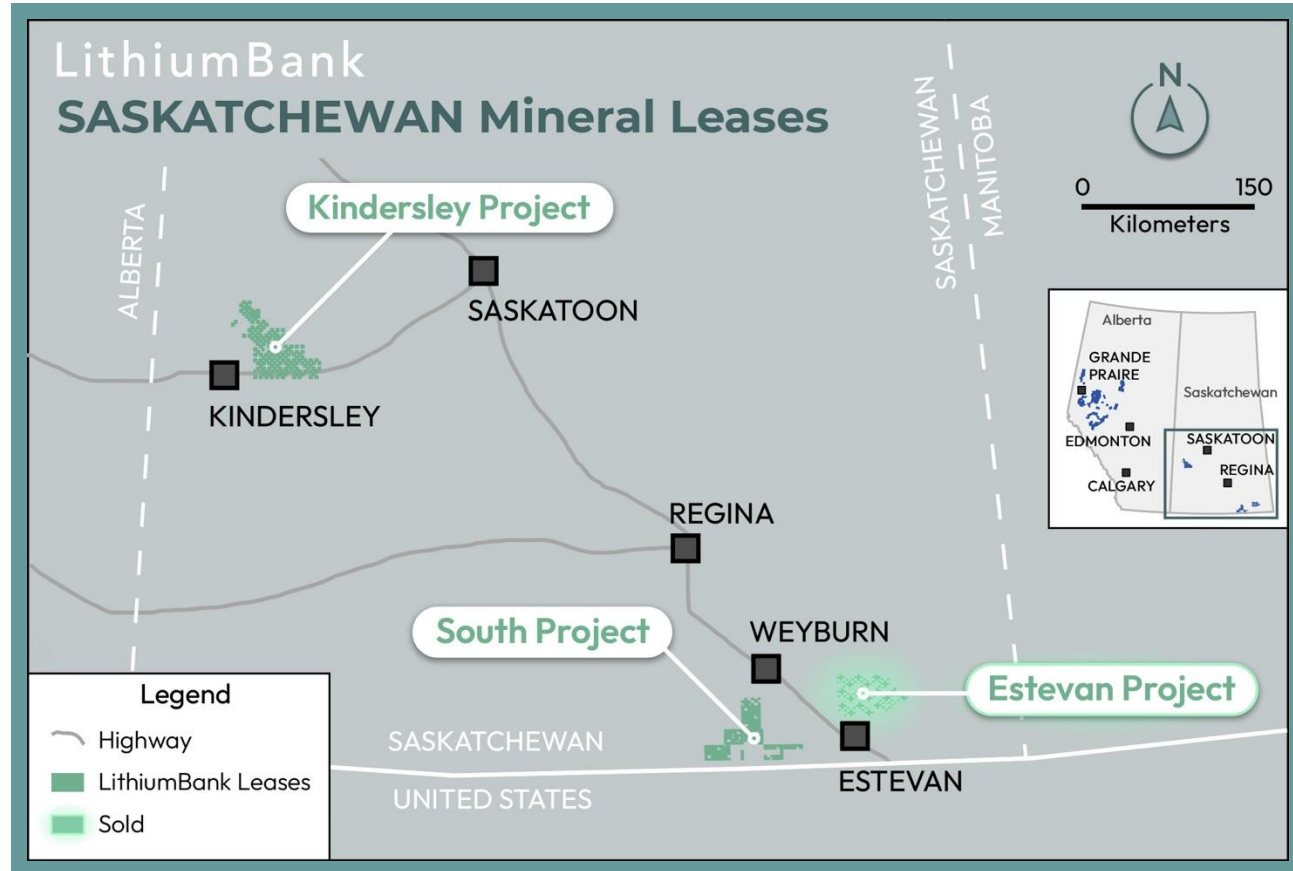
>15x Return on the Sale of Estevan Property
A Repeatable Model

Strategic Purchase and Sale

- In 2021 LithiumBank purchased a portfolio of 3 distinct projects totaling 338,753 acres
- On March 27, 2024, LithiumBank completed the sale of its Estevan project for **\$15 million** to an energy company valuing the project at **\$165/acre** for 90,883 acres

Kindersley & South

- Kindersley represents 116,845 acres of crown land adjacent to Grounded Lithium/Denison Mines' freehold asset that posted a positive PEA with Pre-Tax NPV of \$1B and a 48% IRR
- South represents 133,858 acres of crown land adjacent to Arizona Lithium (ASX:AZL) who purchase Prairie Lithium's Williston Basin project for \$70M (~\$200/acre) in cash and shares in early 2023



ENGAGEMENTS



[View Press Release](#)

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



[View Press Release](#)

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



[View Press Release](#)

Hatch was engaged by LithiumBank to assess DLE processes available globally to form the basis of Boardwalk's updated PEA published in January 2024



[View Press Release](#)

Signed a Memorandum of Understanding (MOU) – nonbinding, with ZS2 to combine technologies to capture CO2 from LBNK, extract Mg from brine and sequester CO2 in Mg cement

SHARE STRUCTURE

*Insiders ~35% S/O

Including Insiders, Friends, Family as of December 2025

64,133,138

Shares
Outstanding

6,359,625

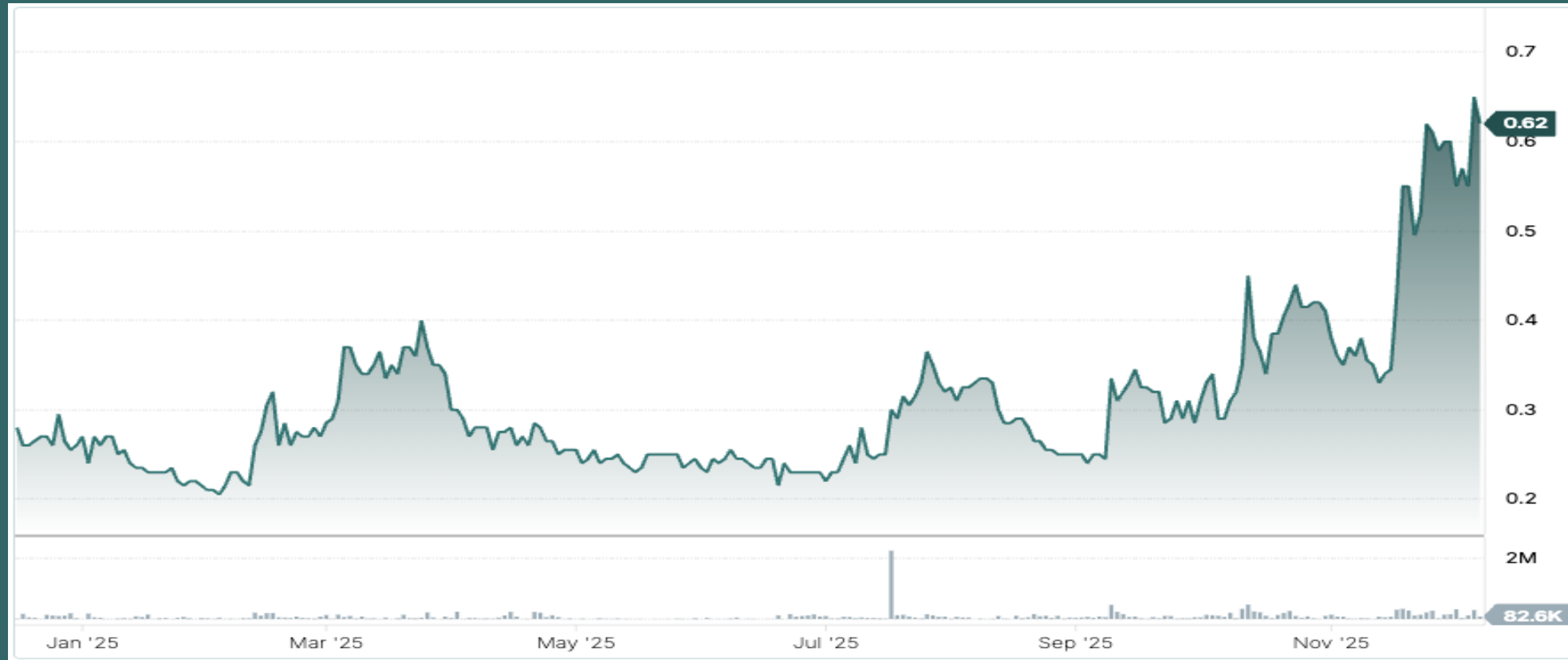
Options

9,988,560

Warrants

80,481,323

Fully Diluted



LITHIUMBANK 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 Stock Broker 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.

Rob is currently CEO & Director of LithiumBank Resources Corp (LBNK-TSXv), Chief Architect and Director of Caerus Capital Partners Inc, and a licensed Dealer Representative at EMD TriView Capital Ltd.



Kevin Piepgrass, P.Geo

COO

University of Alberta Graduate and Professional Geologist, registered at 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.

LITHIUMBANK TEAM



Christopher Murray
Director



Steven Piepgrass, P.Eng, MBA
Director



Katya Zotova
Director



Ann Fehr
CFO & Corporate Secretary



Jon LaMothe, M.Sc
VP Exploration



Leo Karabelas,
Investor Relations



Nikolas Matysek
Director of Communications

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