LithiumBank

June 2026

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

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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, including construction targeted for 2027; (b) the timing and results of the Company's feasibility study and front-end engineering design, including anticipated completion in H1 2027; (c) planned production rates; (d) the economic metrics presented in the Preliminary Economic Assessment ("PEA"), including Pre-Tax NPV and EBITDA estimates; (e) expected market demand for lithium; (f) the Company's ability to secure additional funding and financing; (g) the Company's general business plans and objectives, including its intention to engage third parties to assist in the development of its projects; and (h) the expected benefits of DLE pilot plant.

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 DLE technology will perform at commercial scale consistently with the results achieved at pilot and demonstration scale; that commodity prices, including lithium prices, will remain at levels supportive of commercial production; that market demand for lithium will develop as anticipated; that the Company will be able to secure adequate financing for project development on acceptable terms; that results of the feasibility study will be consistent with the PEA; 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; 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: technological risks related to scaling DLE from pilot and demonstration scale to commercial operations; fluctuations in lithium and other commodity prices; risks inherent in the preliminary nature of the PEA; risks related to the Company's ability to obtain adequate financing on acceptable terms; the Company's operations could be adversely affected by possible future government legislation, policies and controls or by changes in applicable laws and regulations; risks related to global trade policies and critical minerals supply chain disruptions; risks related to competition from other lithium producers and alternative technologies; the volatility of global capital markets; the failure of the Company to attract and retain skilled personnel; environmental, health and safety risks; changes in labour costs and other costs and expenses or equipment or processes to operate as anticipated; unanticipated costs and delays; and the risk factors set out in the Company's filings on the Company's profile at www.sedarplus.ca.

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. There is no guarantee that all or any part of the mineral resource will ever be upgraded to a higher category. The estimate of mineral resources may be materially affected by geology, environment, permitting, legal, title, taxation, socio-political, marketing, or other relevant issues.

* The technical report entitled "LithiumBank Resources Corp. Boardwalk NI 43-101 Technical Report" dated effective February 20, 2025 and the technical report entitled "LithiumBank Resources Corp. Park Place NI 43-101 Technical Report" dated effective June 24, 2024, are available on LithiumBank's website (www.lithiumbank.ca/investors/documents) and SEDAR+ (sedarplus.ca). The preliminary economic assessment is inherently preliminary in nature. It includes inferred mineral resources that are too speculative geologically to have economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the results indicated in this preliminary economic assessment will be realized."

The cautionary statement "Mineral resources that are not mineral reserves do not have demonstrated economic viability" should be supplemented by a proximate caution wherever PEA-derived economics (e.g., NPV, IRR, production rates, etc.) are displayed to ensure equal prominence with the economic figures (see section 2.3(3) of NI 43-101). Therefore, consider retaining slide-level cautions on all slides presenting such metrics.

THE FUTURE OF CANADIAN LITHIUM

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

- DA to advance Boardwalk to commercial production
- DA includes binding licensing terms for SLB energy efficient end-to-end lithium brine processing solution
- Feasibility Study commenced and to be completed in H1 2027

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 DLE units

- Reduces CAPEX
- Compelling capital intensity

DLE technology proven at demonstration scale

CORPORATE PROFILE

Development History

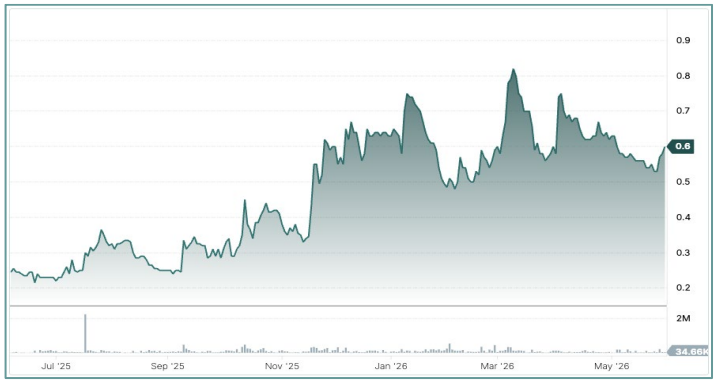
- Invested > $40M in exploration and development
- Consolidated ~ 1.24M ac of Mineral Licenses
- Defined two National Instrument (NI) 43-101 lithium Resource Estimates

  Boardwalk – 1.7 Mt LCE Measured @ 81.2 mg/L Li & 3.5 LCE Mt Indicated @ 81.8 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
- Acquired 2nd well for future production
- DA with SLB signed to develop Boardwalk to Production

LithiumBank Resources Corp.	
Share Price	$0.60
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[1]	
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

1. The preliminary economic assessment is inherently preliminary in nature. It includes inferred mineral resources that are too speculative geologically to have economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the results indicated in this preliminary economic assessment will be realized. The technical report entitled "LithiumBank Resources Corp. Boardwalk NI 43-101 Technical Report" dated effective February 20, 2025 is available on SEDAR+.

LITHIUMBANK BRINE HOSTED MINERAL LICENSES

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

Alberta

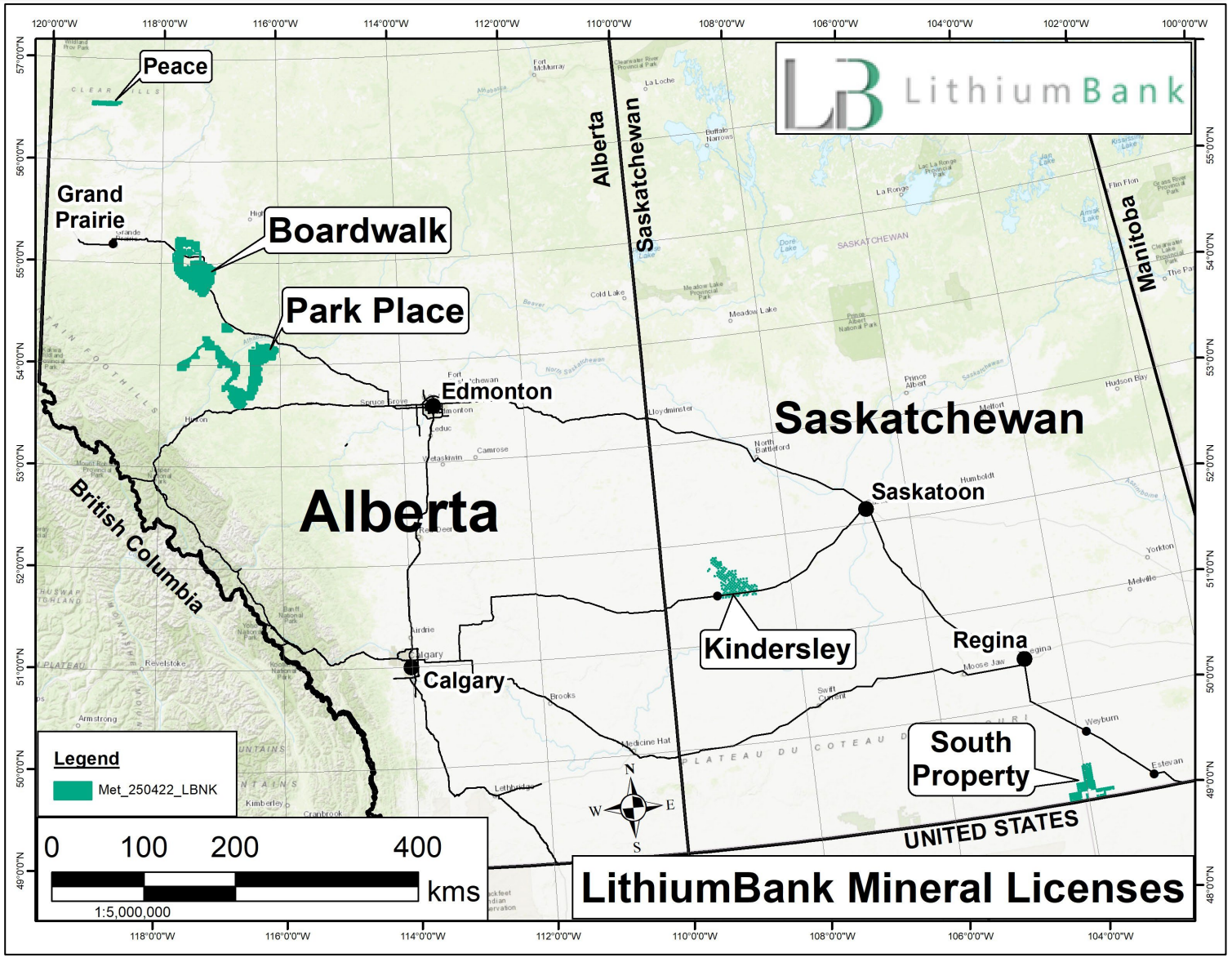
- Boardwalk: 159,979 ha
- Park Place: 226,683 ha
- Peace: 13,920 ha

Saskatchewan

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

Development Ready Holdings

- No carbon sequestration overlap
- Development ready assets without freehold – 100% crown mineral rights
- No freehold royalties



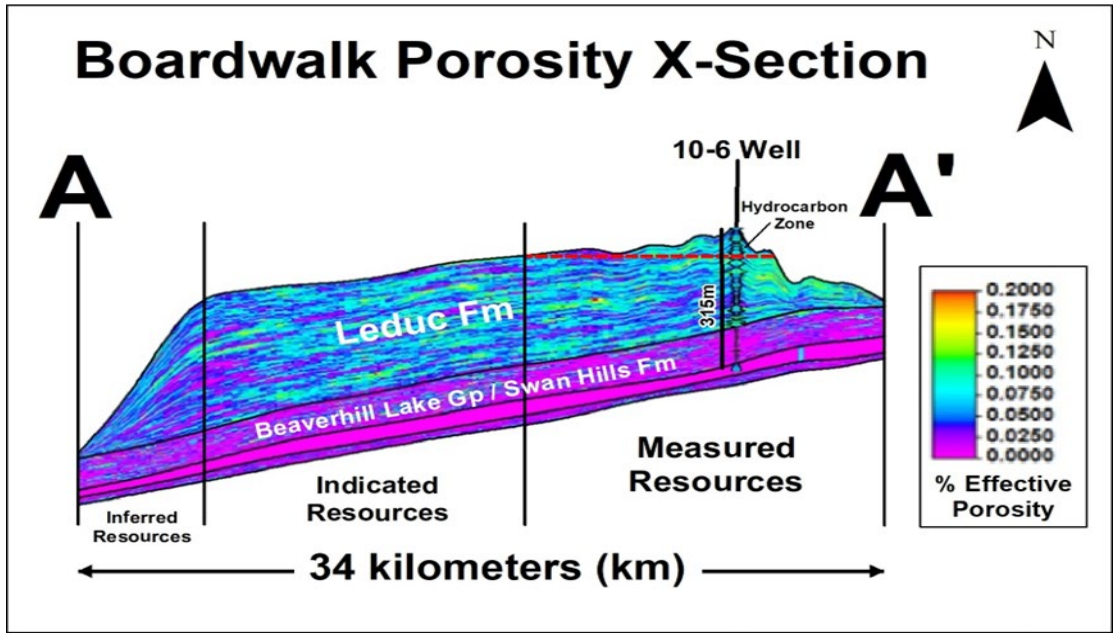
BOARDWALK PROJECT AND LEDUC RESERVOIR

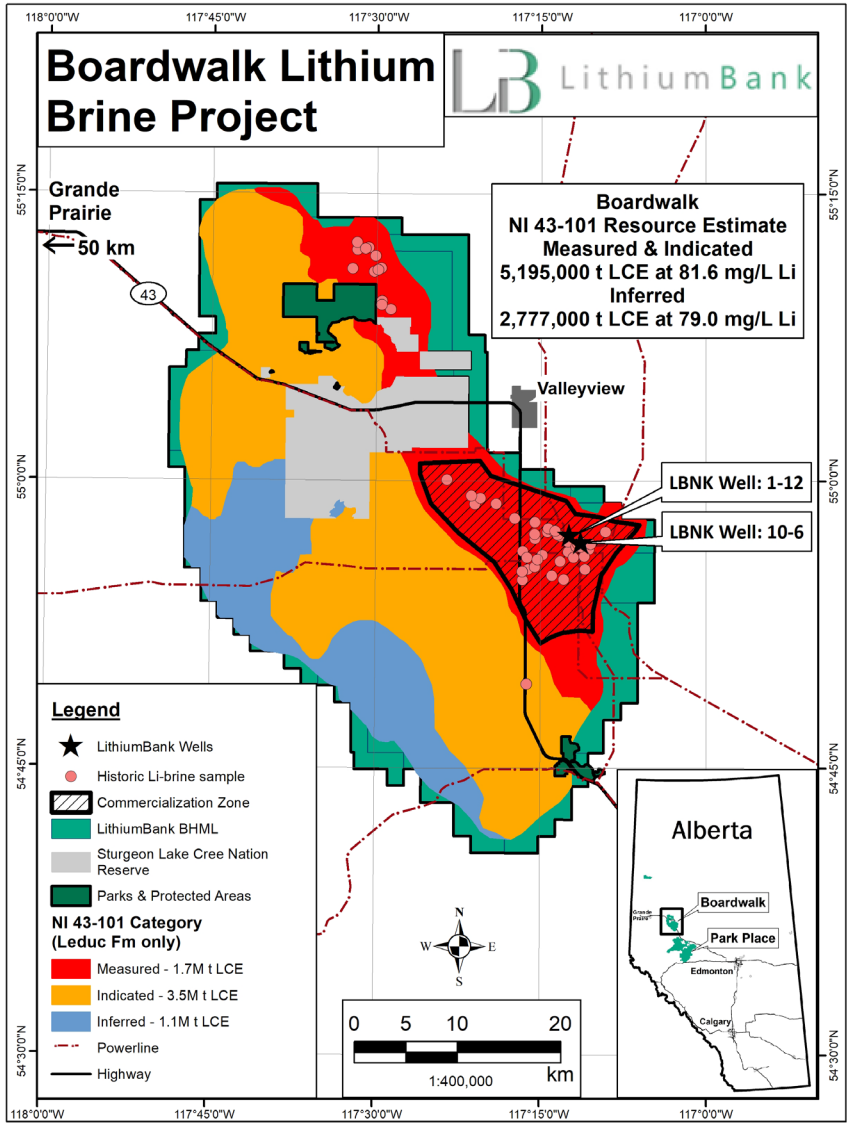
Project Metrics

- Highest Grade M&I Lithium Resource in Alberta
- 1.7 Mt LCE Measured @ 81.2 mg/L Li & 3.5 LCE Mt Indicated @ 81.8 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 NPV_8 US$3.7 Billion and EBITDA US$715 Million

Leduc Geology

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





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BOARDWALK DEVELOPMENT AGREEMENT

Advancing Boardwalk to Commercial Production with Construction Targeted for 2027

Strategic Partnership

- Signed DA Dec 2025 with SLB
- Will develop Boardwalk to Commercial Production
- Includes attractive DLE royalty-base, binding licensing terms for end-to-end mineral processing

Development Plan

- Initial phase: 2 DLE modules targeting 10,000 tpa LCE
- Modular: Scalable with 5,000 tpa LCE units
- Improves capex efficiency
- Reduced execution risk

Why SLB

- 100+ years global engineering expertise
- Leader in industrial + AI-enabled process tech.
- End-to-end lithium brine processing solution which includes DLE is commercial ready
- Technology is low water/energy use and minimal reagents

Technical Progress

- Completed: Resource definition & DLE pilot testing
- Demonstration of end-to-end Li brine processing to battery grade lithium carbonate
- Feasibility Study & Front-End Engineering Design to be completed H1 2027

Pathway to Production

FS → Detailed Engineering → Procurement → Phased Construction → Commissioning

BOARDWALK INFRASTRUCTURE

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

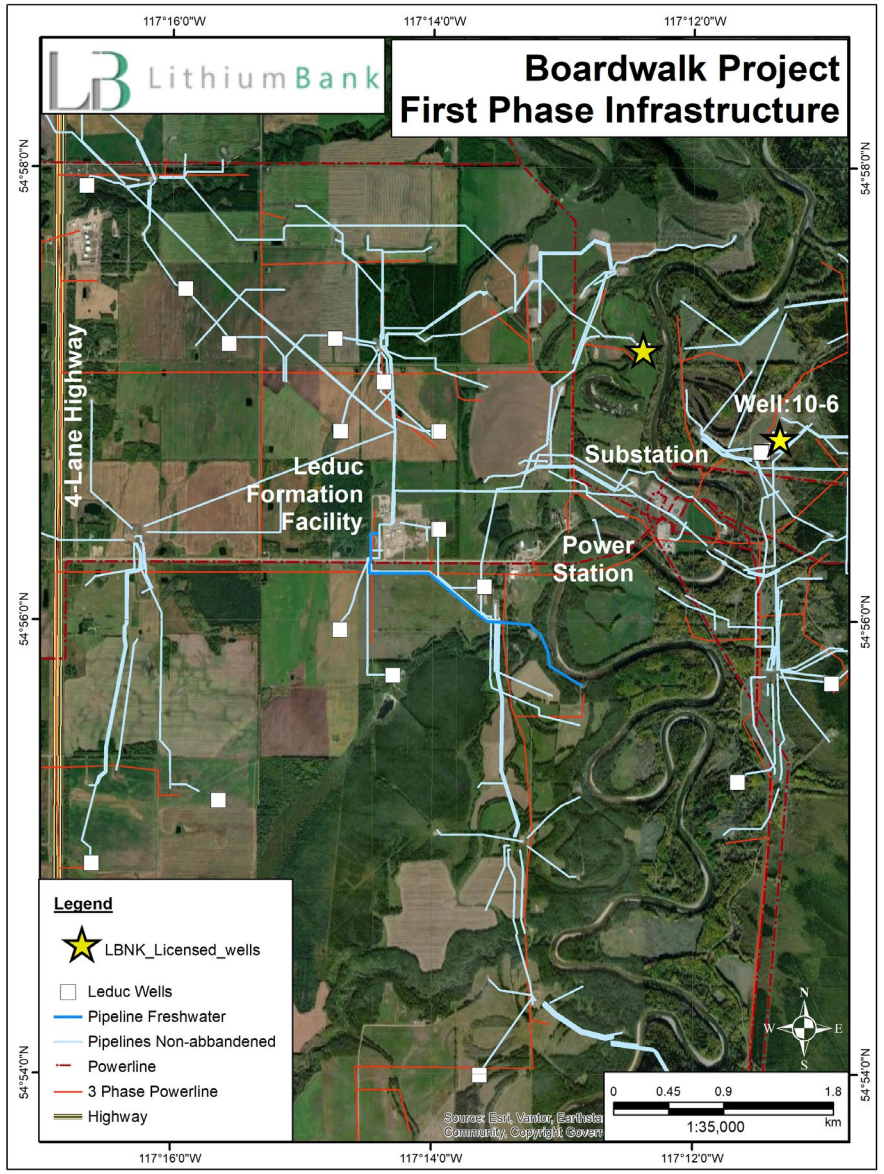
- 240 kV power lines through production zone

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

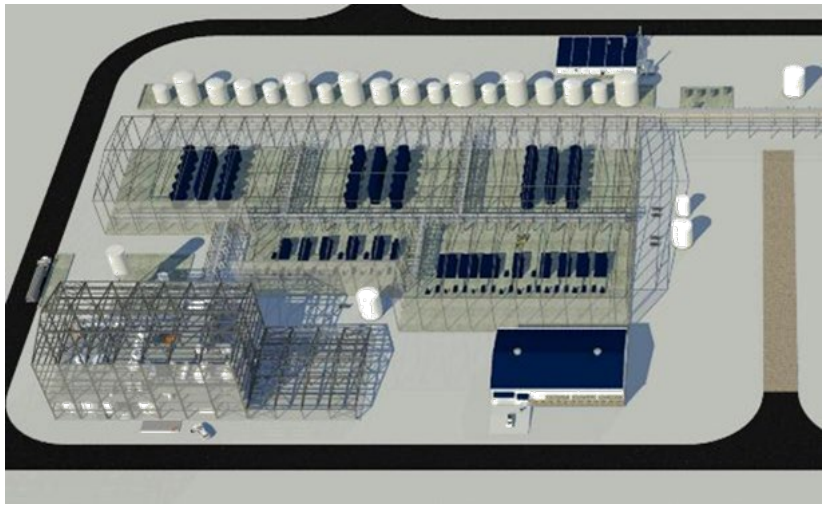


LITHIUMBANK'S DLE ADVANTAGE

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 ~15,000 t LCE/yr

SLB's Proven Process

Subsurface Engineering
Well-field optimization and asset management

→

Pre-Treatment
Degassing, removal of trace hydrocarbons and solids

→

Extraction
Lithium recovery up to 95%

→

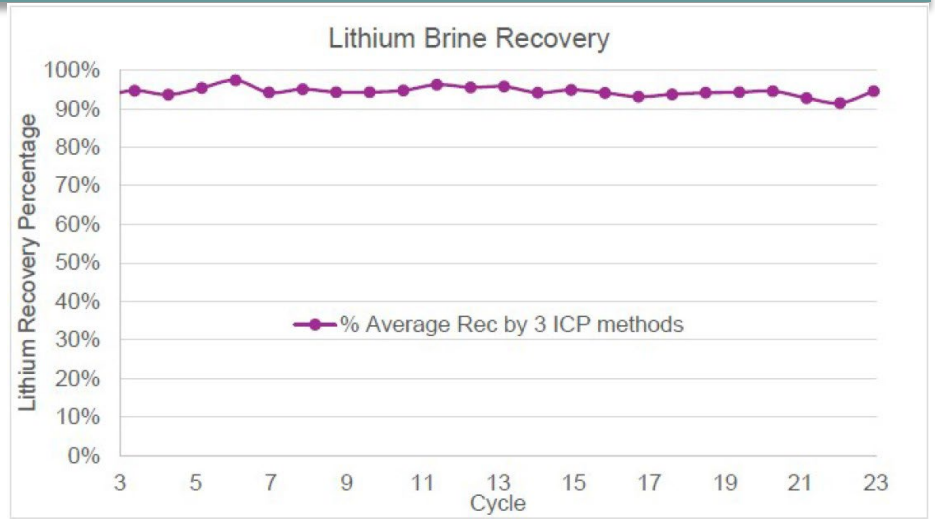
Polishing and Concentration
15-20 times lithium concentration using innovative energy-efficient technology

→

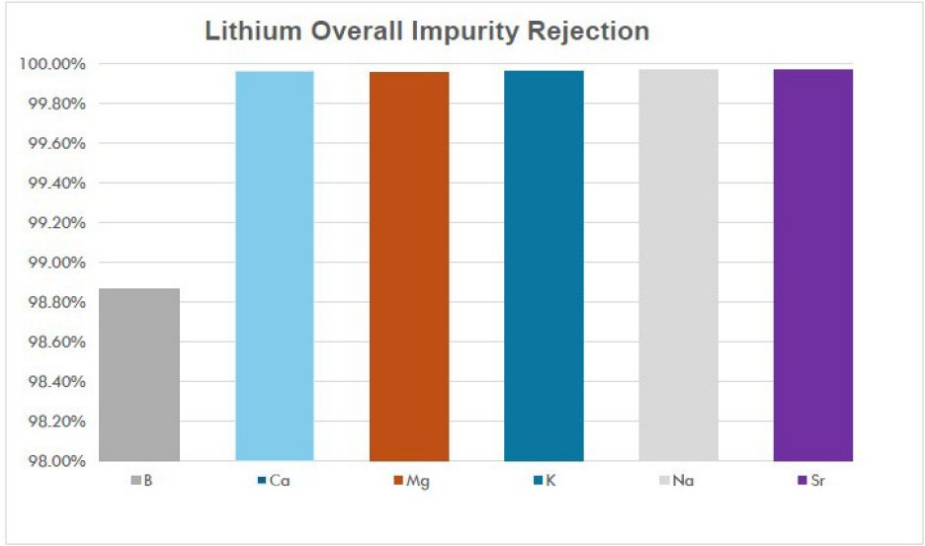
Conversion
Battery-grade lithium carbonate or lithium hydroxide

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[1]
- DLE concentrates brine ~12x
- Second pilot campaign to commence June 2026 for optimization and downstream piloting to a battery grade lithium carbonate
- SLB has built a demonstration scale pilot that is at 1/10th scale of a commercial scale module (Clayton Valley Nevada)
- The SLB well-to-product integrated lithium solutions demonstration plant—with the highest capacity in North America—starts a new era of more sustainable lithium production



95% average Li recovery from SLB pilot testing



99.9% average overall impurity rejection

1. For additional information regarding the DLE pilot testing results described above, readers are referred to LithiumBank's news release entitled "LithiumBank Confirms up to 95% Lithium Recovery and over 99% Impurity Rejection from DLE Pilot Testing Using SLB's Integrated Lithium Production Solution Technology on Boardwalk and Park Place Brines" dated April 14, 2025, which has been filed on SEDAR+.

PARK PLACE PROJECT

Project Metrics[1]

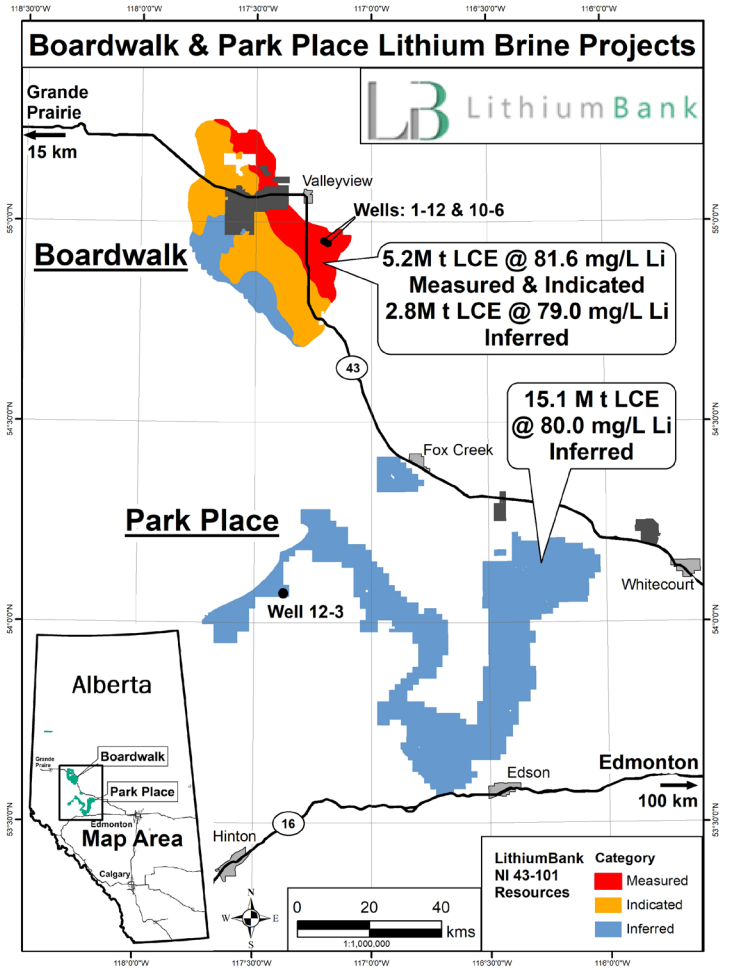
- High grade Alberta resource
- 80.0 mg/L in the Leduc Fm and 79.4 mg/L in the Swan Hills Fm
- 15.1 Mt LCE Inferred @ 80.0 mg/L Li
- 3D & 2D seismic over 450 wells with 40 Li brine samples
- Reservoir >350 m thick in potential production

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[2]

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



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Notes on Mineral Resources

1: Mineral resources are not mineral reserves and do not have demonstrated economic viability. There is no guarantee that all or any part of the mineral resource will ever be upgraded to a higher category. The estimate of mineral resources may be materially affected by geology, environment, permitting, legal, title, taxation, socio-political, marketing, or other relevant issues. 2: The weights are reported in metric tonnes (1,000 kg or 2,204.6 lbs). 3: Tonnage numbers are rounded to the nearest 1,000 unit. 4: In a 'confined' aquifer (as reported herein), effective porosity is an appropriate parameter to use for the resource estimate. 5: The resource estimation was completed and reported using a cut-off of 50 mg/L Li. 6: To describe the resource in terms of industry standard, a conversion factor of 5.323 is used to convert elemental Li to Li2CO3, or Lithium Carbonate Equivalent (LCE).

MILESTONES ACHIEVED AND 2026 OBJECTIVES

Pathway to Commercial Production with Construction Targeted for 2027

Recent Accomplishments

Boardwalk Development Agreement

- DA with SLB to advance Boardwalk to commercial production

Boardwalk PEA[1]

- Pre-Tax NPV_8 US$3.7 Billion and EBITDA US$715 Million
- 34,005 tpa over 20 yrs

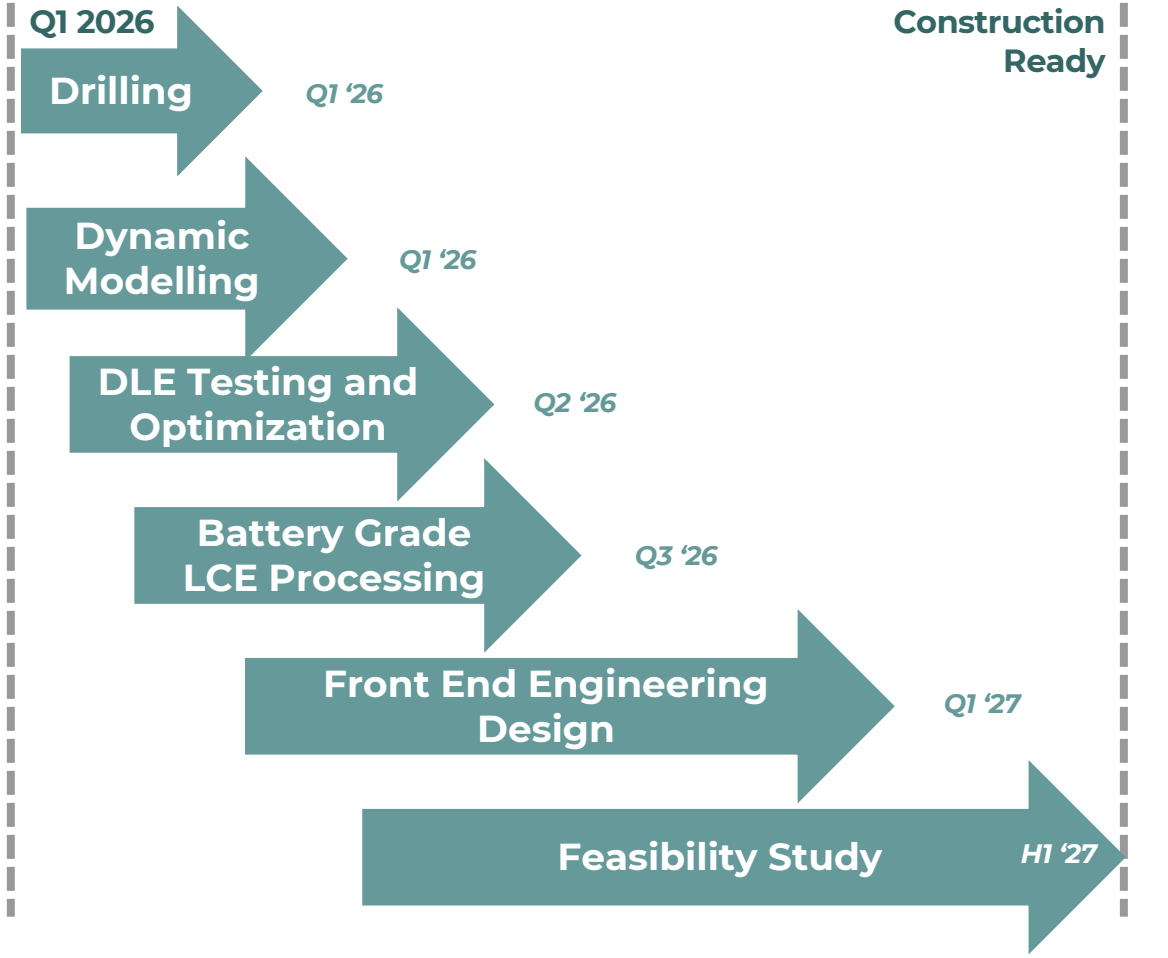
Park Place Resource[2]

- Mt 15.1 LCE Inferred @ 80.0 mg/L Li

DLE Pilot Testing

- Up to 95% lithium recovery from both Boardwalk and Park Place from DLE pilot testing

2026 Objectives



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NORTH AMERICAN LITHIUM RESOURCES

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

Boardwalk

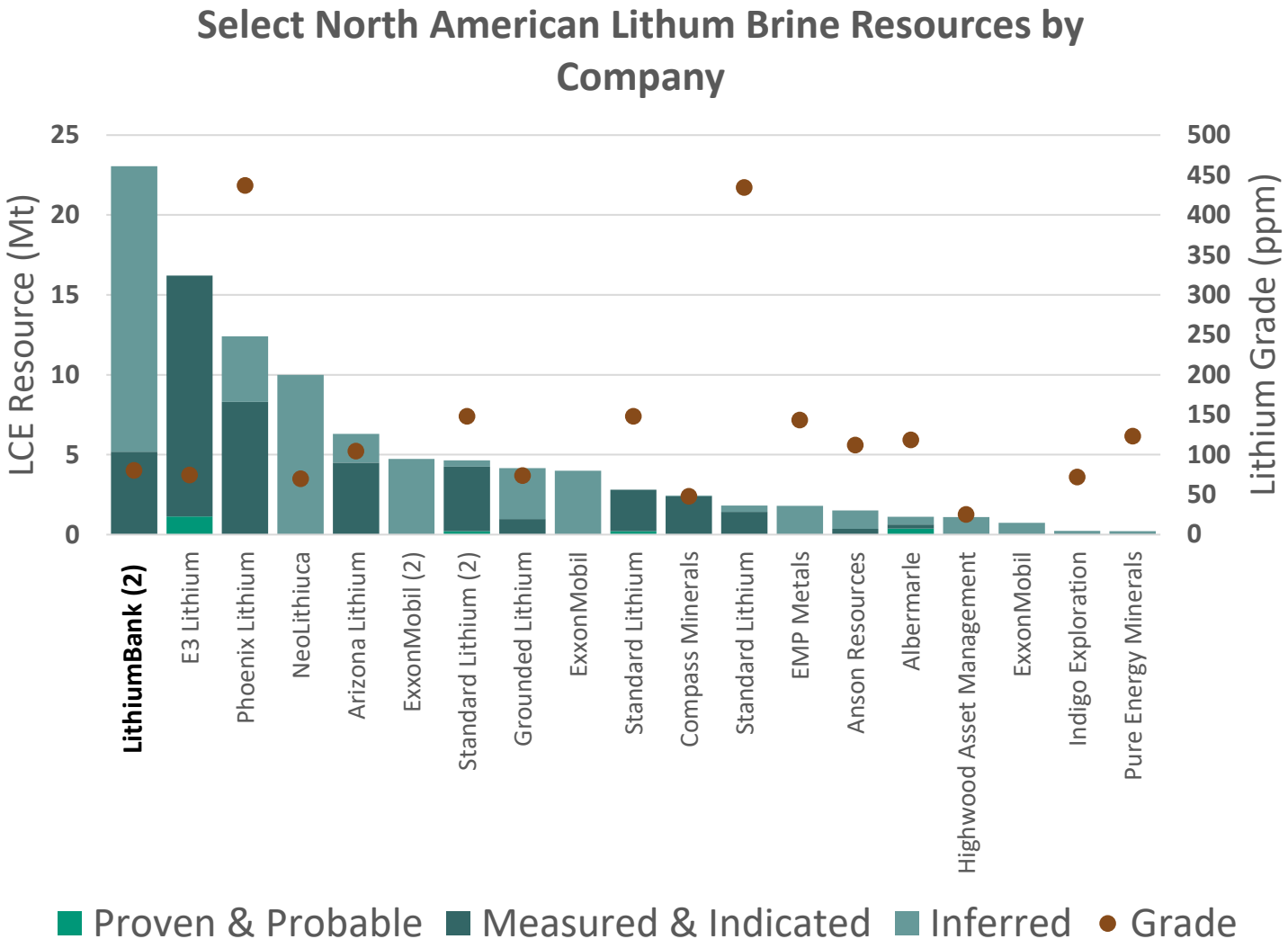
- 5.2 Mt LCE Measured & Indicated @ 81.6 mg/L Li
- 2.8 Mt LCE Inferred @ 79.0 mg/L Li

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

- $1,600,000
- 50% refund from Emissions Reduction Alberta (ERA)

DLE & Mineral Processing to Battery-grade LCE

- $860,000
- 50% refund from ERA

Feasibility Study, FEED, and FID

- ERA to refund 50% of expenditures up to $5,300,000
- 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

SASKATCHEWAN ASSETS

Keystone holdings in an emerging lithium brine district

Kindersley

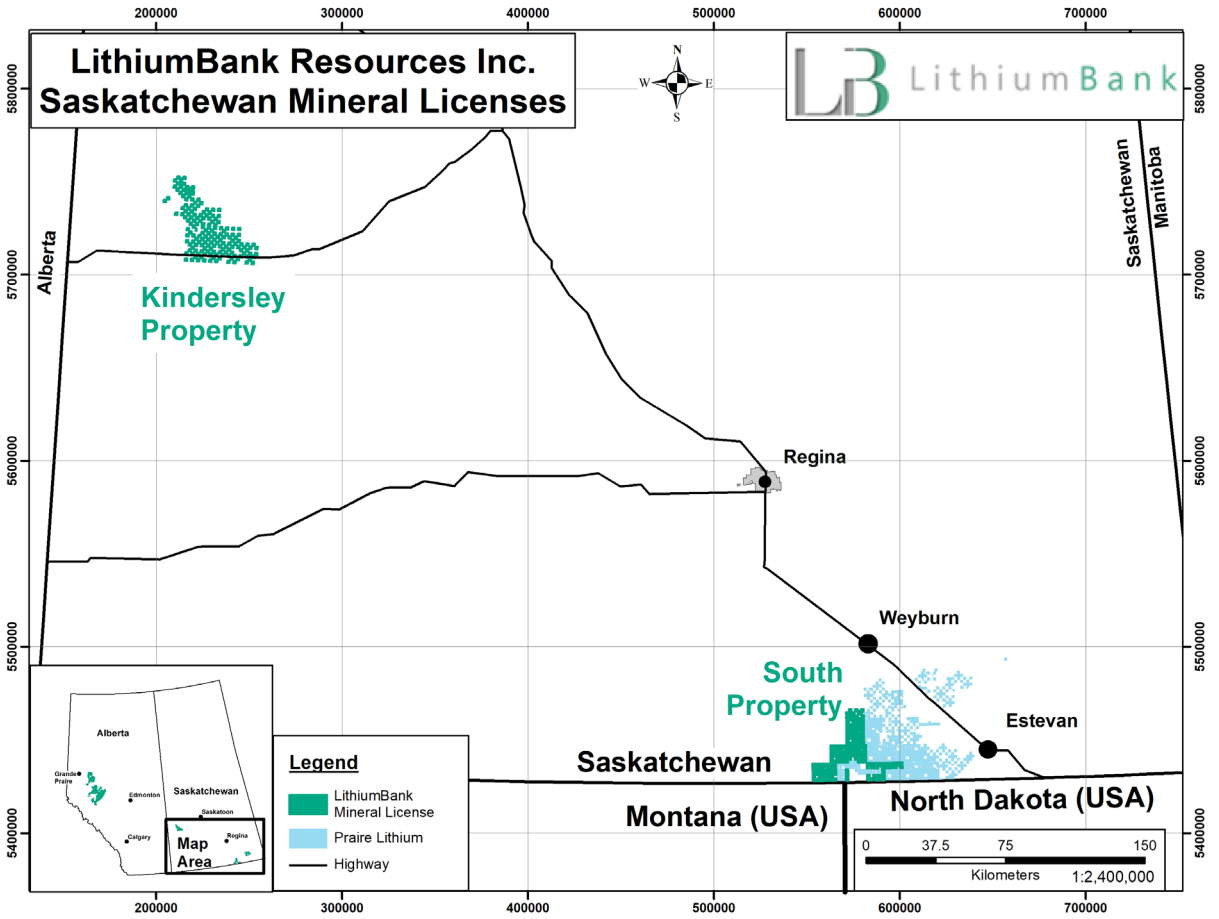
- 116,845 acres of Crown Land
- Adjacent to Grounded Lithium/Denison Mines PEA-level project

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

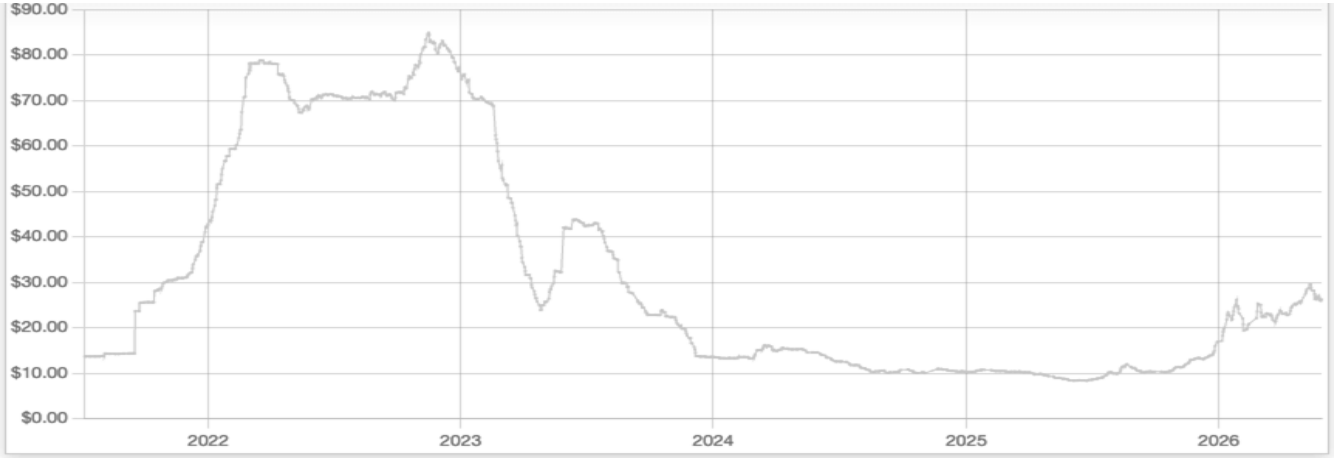
June 2025

G7 Critical Minerals Action Plan

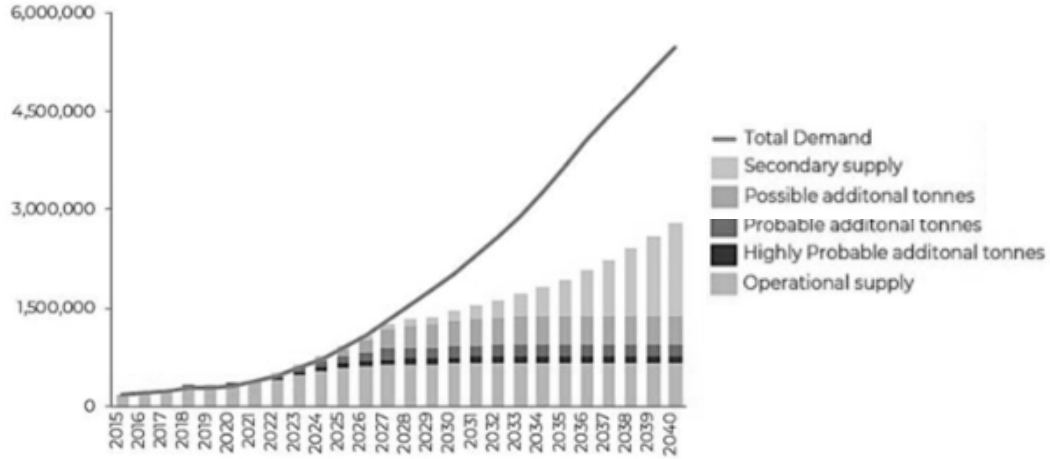
August 2025

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

Historical LCE Price Performance (USD/kg)[1]



Supply Deficit[2]



1. Dailymetalprice.com data as of June 2026
2. Source: Benchmark Mineral Intelligence

INVESTMENT HIGHLIGHTS

Development Agreement signed with SLB a Leading Energy Services and Technology Supplier

Development Agreement to advance Boardwalk to **commercial production**

Feasibility to be completed in H1 **2027**

Largest brine LCE Resources in North America and highest-grade lithium projects 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**

Historical performance is not necessarily indicative of future results

Contact Us

rob@lithiumbank.ca