



● TSXv: LBNK · OTC: LBNKF · FRA: HT9

SCALABLE · SUSTAINABLE

# Lithium Brine

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**Canada's Nearest Term Prospective  
Large Scale Direct Brine Producer**

**Rob Shewchuk**

Co-Founder, CEO & Director

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www.LithiumBank.ca

**July 2026**

# Corporate Profile

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LithiumBank.ca

## Boardwalk PEA Metrics <sup>1</sup>

**34,005** tonnes  
Annual LHM Production

**\$4,588**/t  
Opex · USD

**\$2.3** <sub>BB</sub>  
Post-Tax NPV<sub>8</sub> · USD

**3.5** Years  
Payback

## Capital Structure

Share Price **\$0.45**

Shares I/O **68.0 MM**

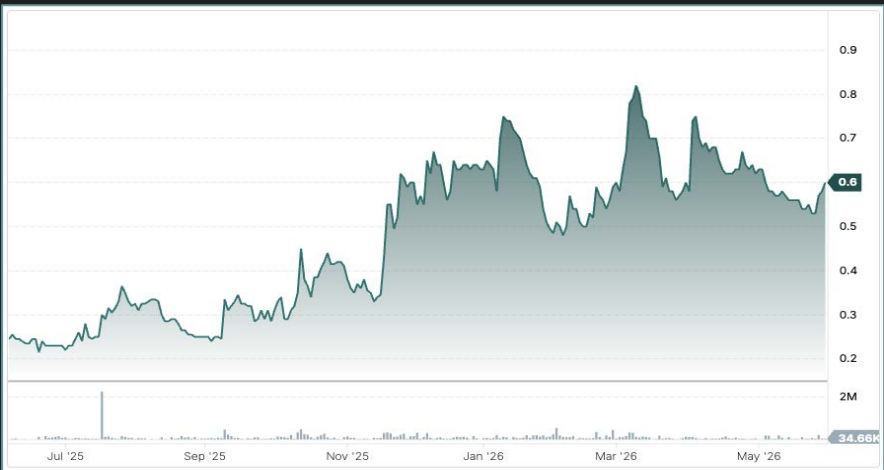
Warrants & Options **13.3 MM**

Insider Ownership **35%**

Market Cap **\$31.3 MM**

Debt **None**

## Share Performance



## 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
- **Development Agreement with SLB signed to take Boardwalk to Production**

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+.

# Brine is the Next Generation

## ADVANTAGES OF OILFIELD BRINES



### Boardwalk Project

- ✓ Uses Direct Lithium Extraction (DLE) Technology
- ✓ Speed to Market – Production in 2030
- ✓ Low Capex – Infrastructure advantage and modular
- ✓ Lowest Environmental Impact existing infrastructure

### Conventional Sources



### Hard Rock

- ✗ High Capex
- ✗ High Opex
- ✗ ~10 years to permit
- ✗ Environmentally Challenging

~60%



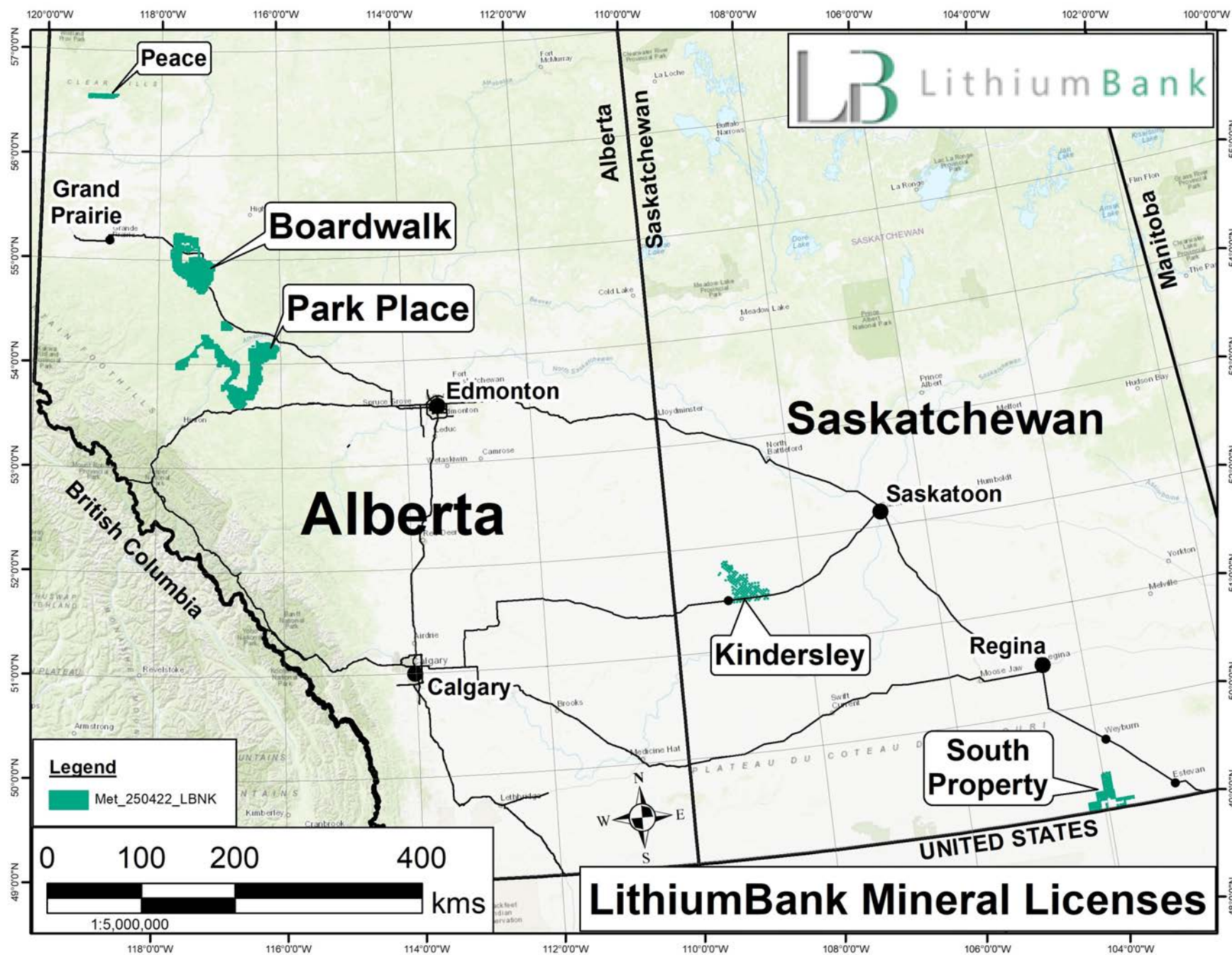
### Salars

- ✗ South America Centric
- ✗ High Capex
- ✗ Long Development Timelines
- ✗ Environmentally Challenging

~40%

LAND POSITION

# 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 |

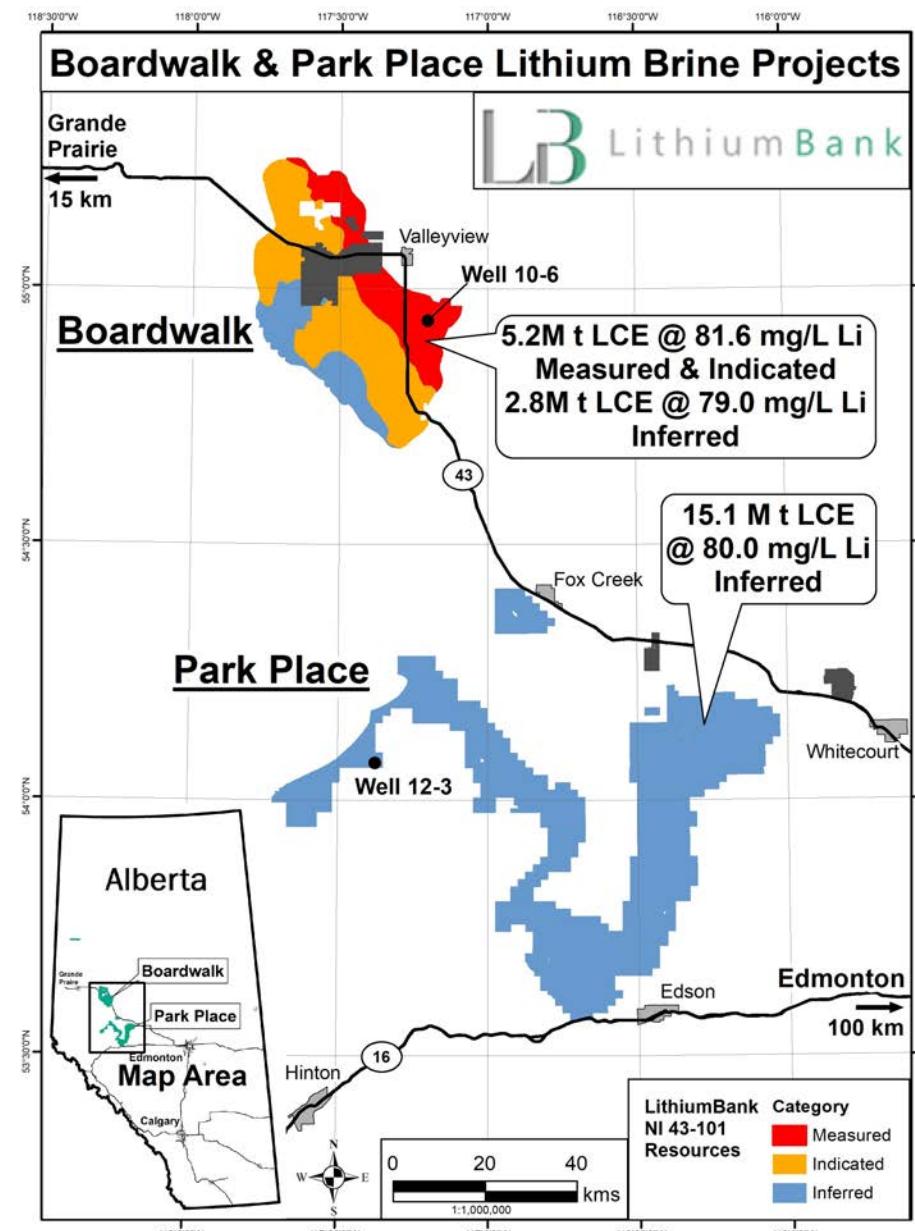
**Total** 502,082 ha

# LithiumBank Update

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## MISSION

Commercialize Boardwalk with the lowest cost of capital within the shortest timeframe while having the lowest environmental and social impact



## New and Developing

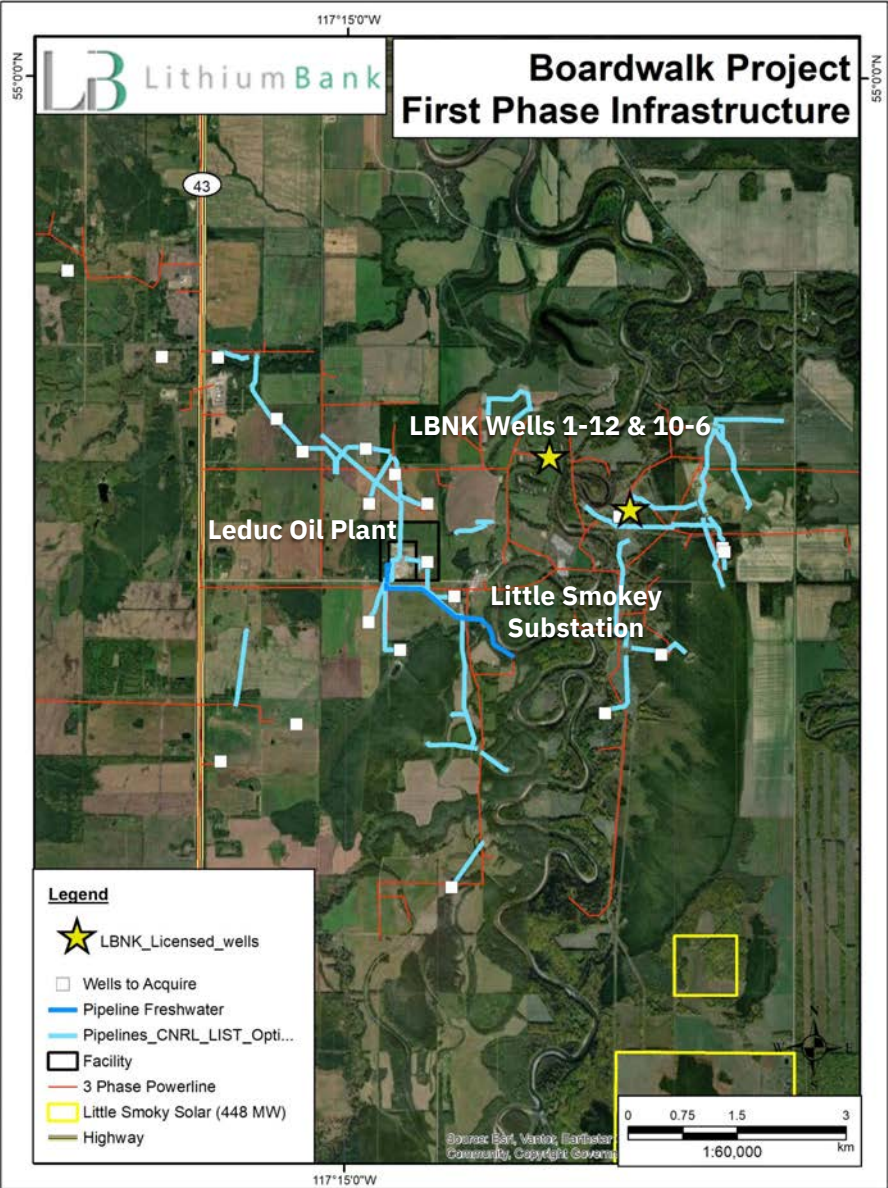
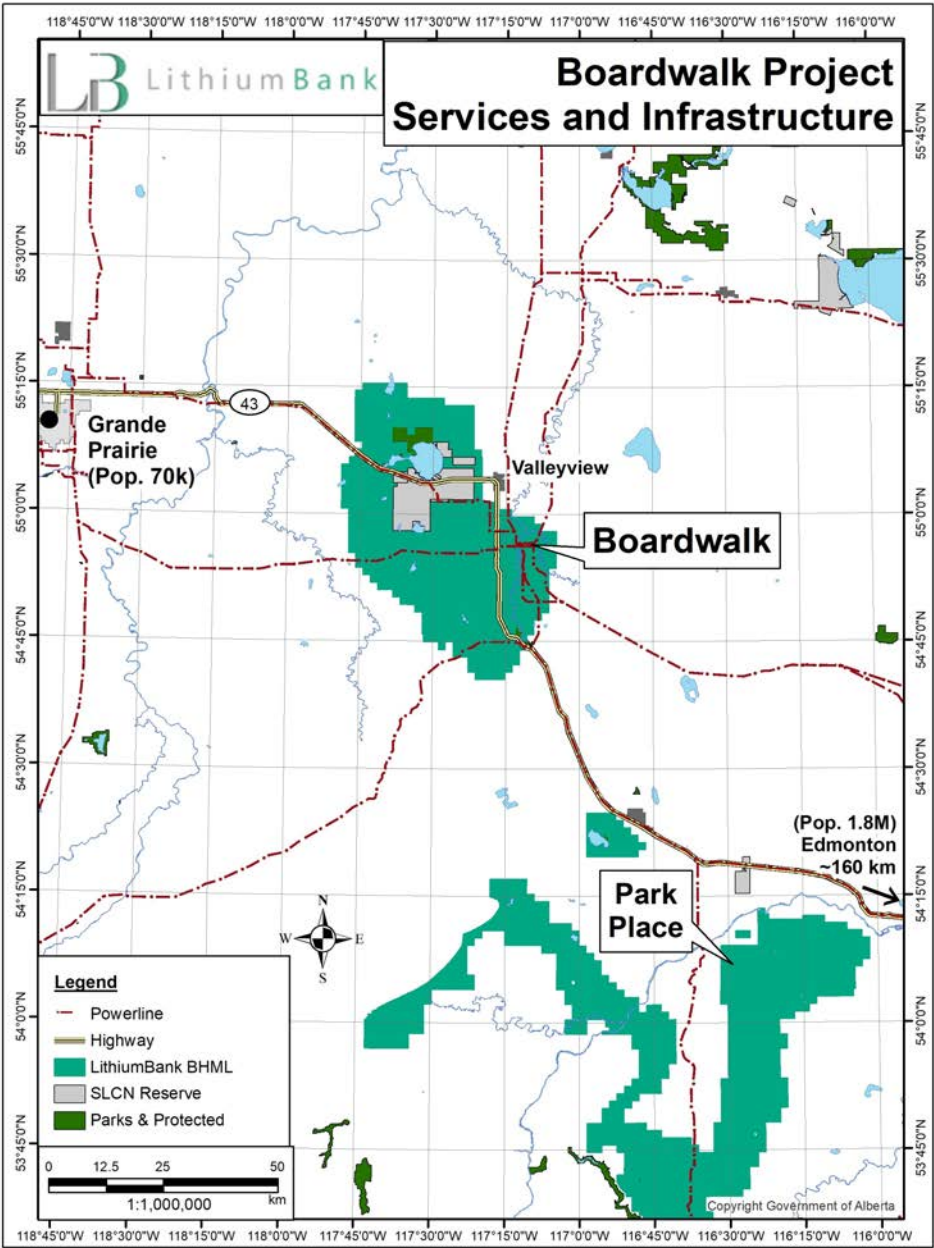
- LOI signed for project scale production infrastructure
- Development Agreement signed with SLB which includes binding licensing fee terms
- \$3.9M Emissions Reduction Alberta funding non-dilutive
- ERA Milestone 1 completed – 150m<sup>3</sup> brine collected
- ERA Milestone 2 started – DLE optimization and production of battery grade Li carbonate for offtake partners
- Initiating Feasibility Study/FEED on Boardwalk to be completed by Q1 2027 (Milestone 3)
- Detailed Engineering and FID by Q3 2027
- Initial scope – two USD \$300M DLE modules @ 10,000 tpa LCE
- **Currently engaging with Sturgeon Lake Cree Nation**
- **Appointed former ExxonMobil Project Development Director Logan Harris as VP Project Development**

# Location, Infrastructure and Services

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|               |                                                                                                                              |
|---------------|------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                   |
| Wells         | 25 past producing Leduc wells identified for re-use                                                                          |
| Pipelines     | ~25km of saltwater pipelines identified for re-use                                                                           |
| 3-Phase Power | Most of the well network                                                                                                     |

Industrial brownfield project area

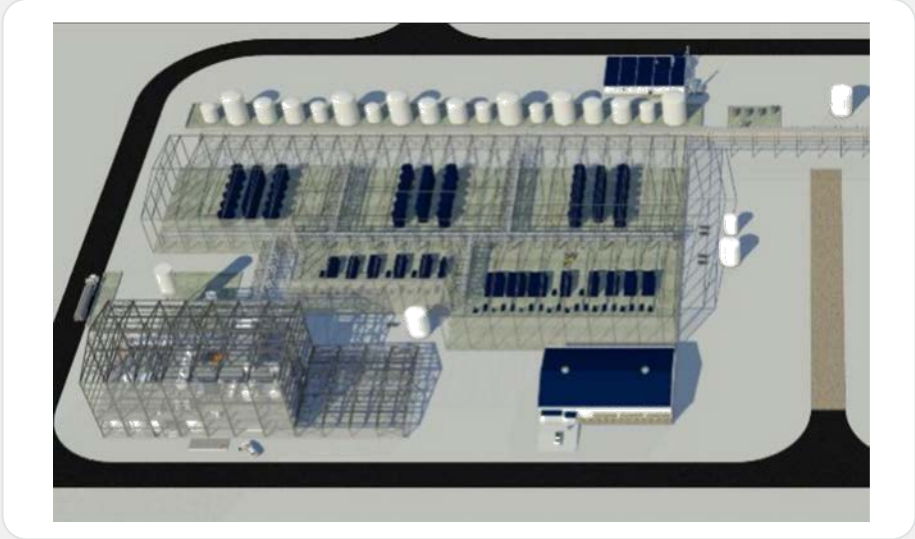


# LithiumBank’s DLE Advantage – Schlumberger (SLB)

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

**3 modules**  
**~15,000 t LCE/yr**  
Modular design ensures cost-effective scalability with processing done on site



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

## SLB’s proven process

**01**  
**Subsurface engineering**  
Well-field optimization and asset management

**02**  
**Impurity removal**  
H2S, hydrocarbon and solids removal

**03**  
**Direct Lithium Extraction**  
Lithium recovery of 85% - 95%, with higher rates achieved depending on the brine’s characteristics

**04**  
**Polishing and concentration**  
15-20 times lithium concentration using innovative energy-efficient technology

**05**  
**Conversion**  
Battery-grade lithium carbonate or lithium hydroxide

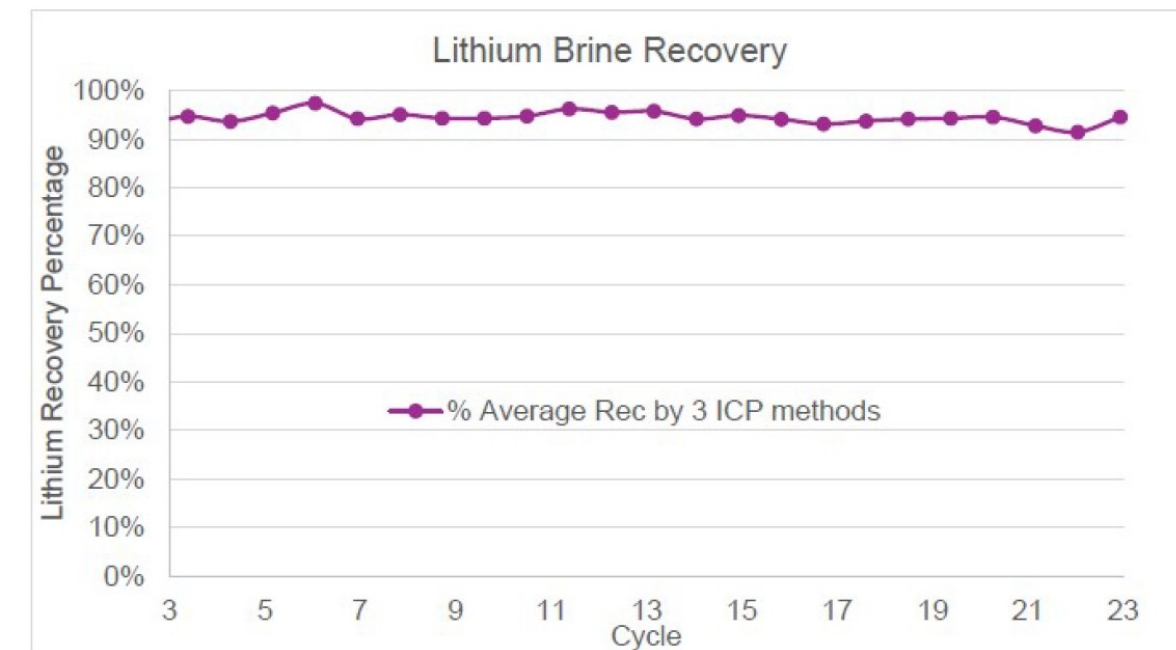
PROVEN AT SCALE

# Mature DLE and Processing Technology

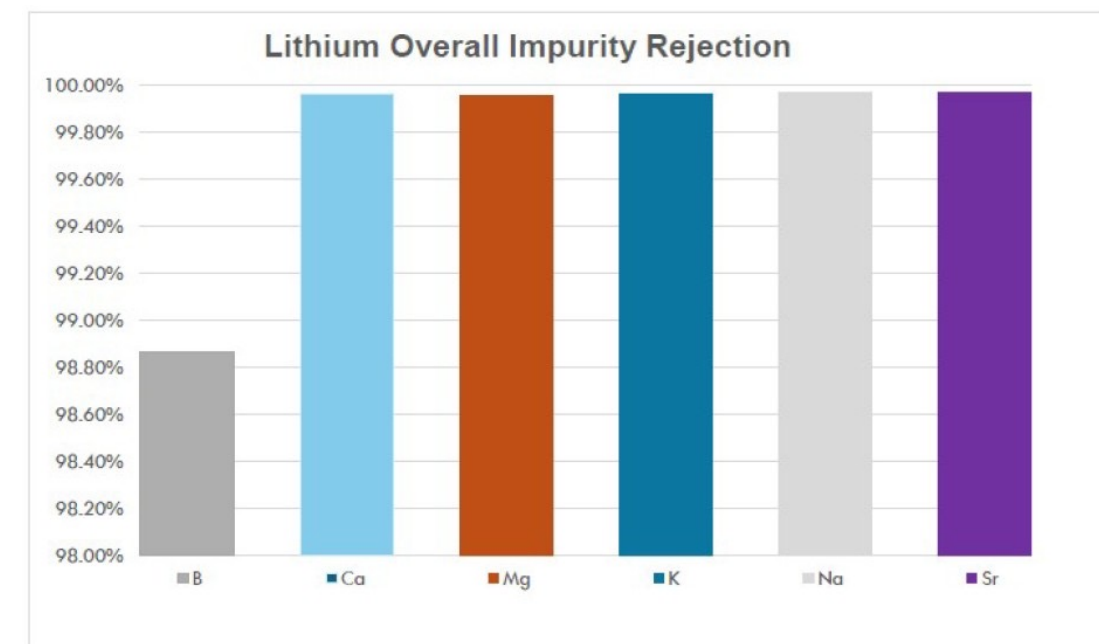
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- SLB has long history of working in the Alberta Energy sector
- LithiumBank has been working with SLB for almost 3-years on the subsurface and DLE
- Boardwalk brine achieved an exceptionally pure LiCl (eluate) product and 95% lithium recovery from recent pilot testing using SLB/ILiAD DLE technology
- DLE concentrates brine ~12x
- Second pilot campaign commenced June 2026 for optimization and downstream piloting to a battery grade Li<sub>2</sub>CO<sub>3</sub>
- 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



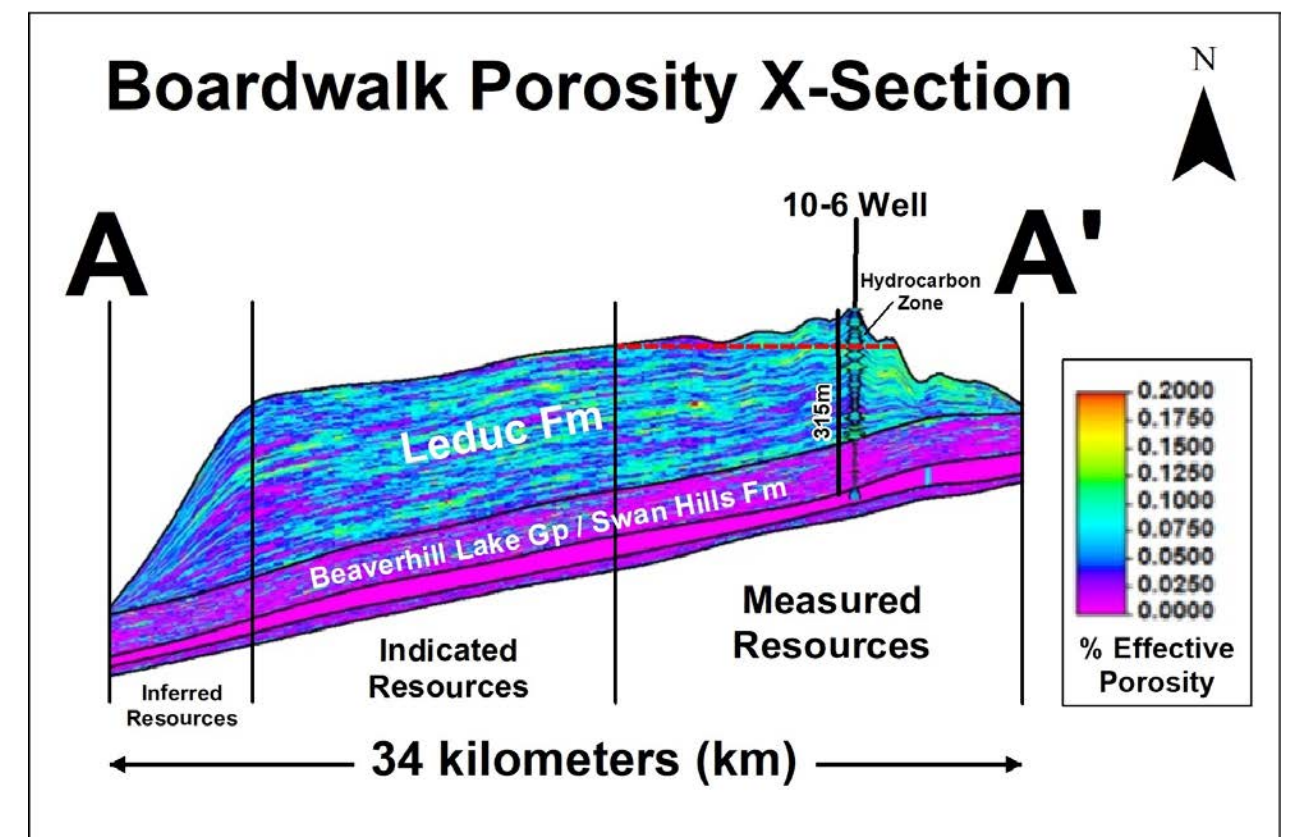
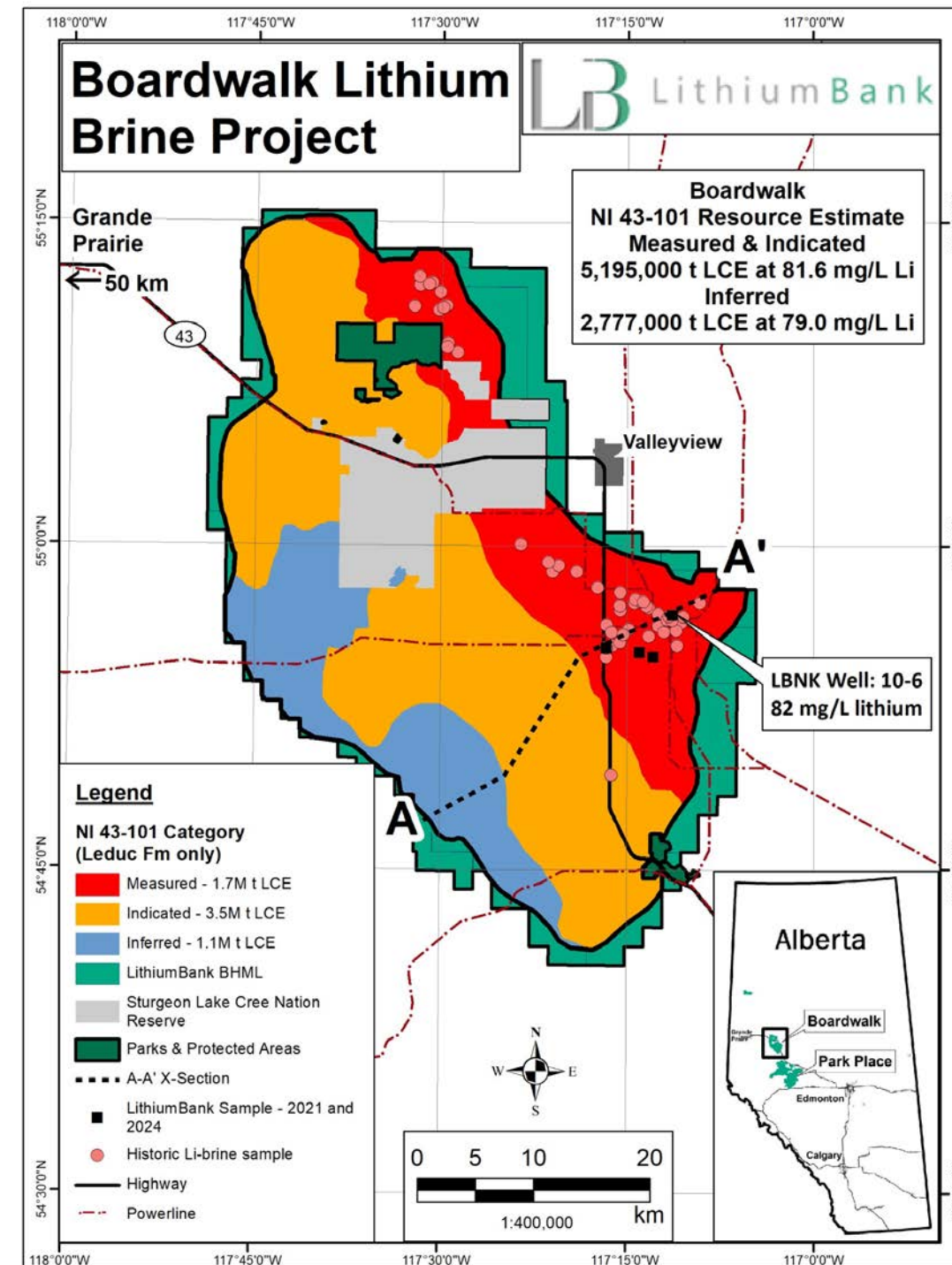
**99.9%** average overall impurity rejection



# Boardwalk Project Geology

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- 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**



# Boardwalk – The Best Brine Investment Opportunity

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## Simple Projects Get Built First

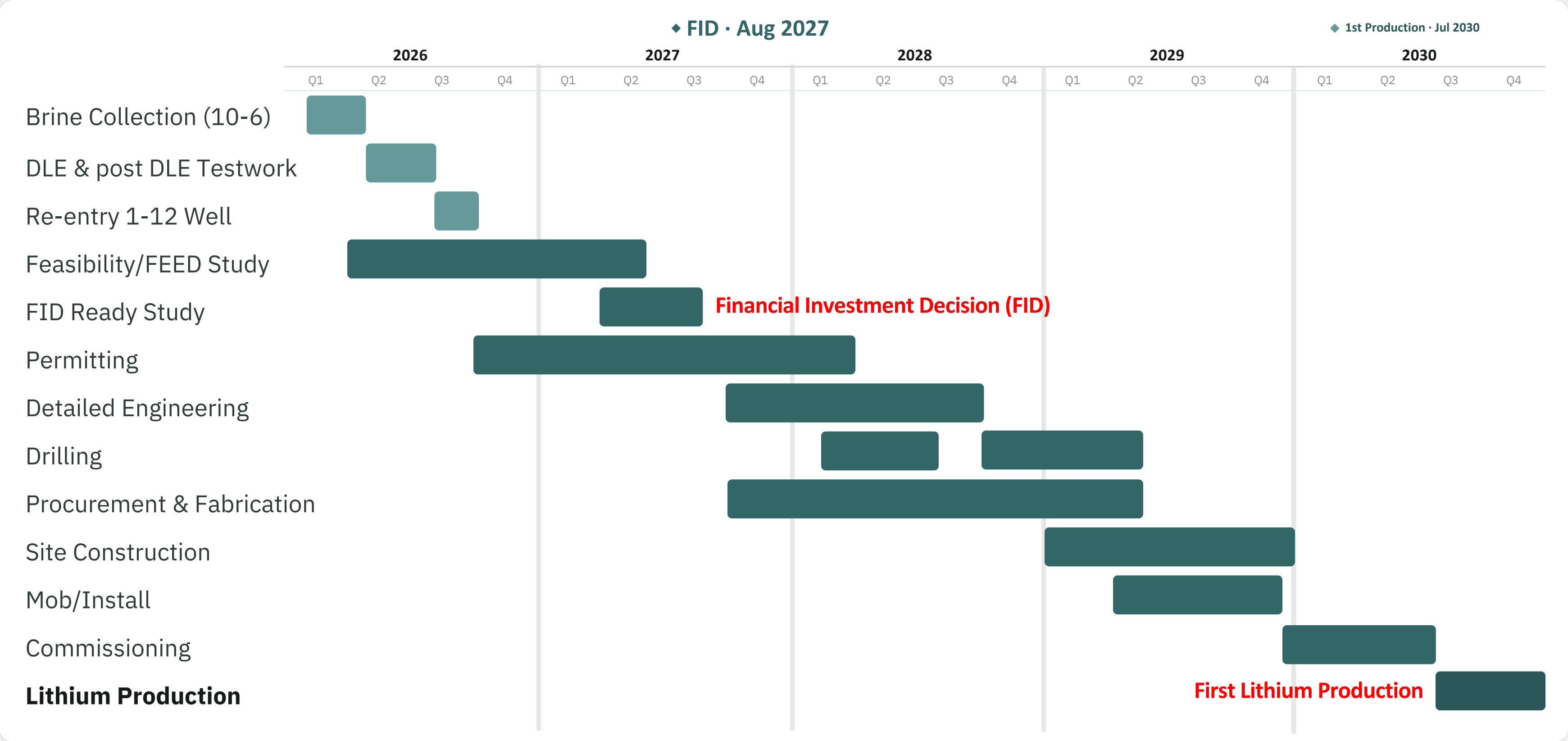
- ✓ The most straight forward brine project to permit (<2-yrs)
- ✓ NO CCUS/pore space overlap
- ✓ NO freehold land in the area
- ✓ NO oil production in the Leduc formation
- ✓ Abundant infrastructure within industrialized project area — wells, pipelines, roads, power, water, permits
- ✓ Modular approach with up to 5,000 tpa LCE per module
- ✓ Low initial CAPEX and scalable
- ✓ DLE technology by SLB commercial ready
- ✓ Energy efficient
- ✓ Low environmental and social impact



# Boardwalk Timeline to Financial Investment Decision (FID)

FID  
August 2027

1ST LITHIUM PRODUCTION  
July 2030





LITHIUMBANK

# Supplementary Slides

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RESOURCE SCALE

# Significant Lithium Brine Resources In North America

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

Boardwalk

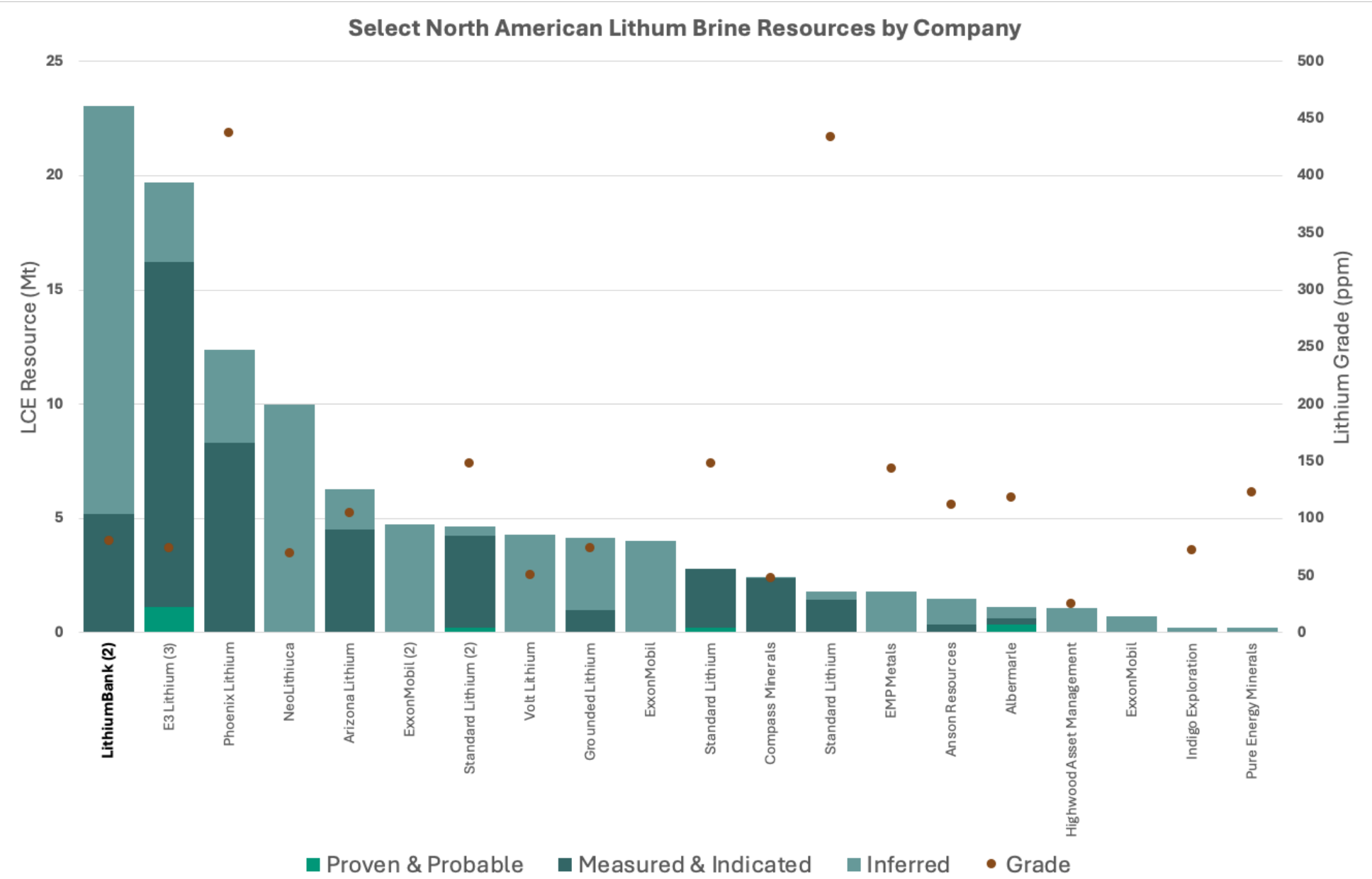
5.2 Mt LCE Measured & Indicated @ 81.6 mg/L Li  
2.8 Mt LCE Inferred @ 79.0 mg/L Li

Park Place

15.1 Mt LCE Inferred @ 80.0 mg/L Li

Total

5.2 Mt LCE M&I  
17.9 Mt LCE Inferred



## NON-DILUTIVE FUNDING

# Alberta Support for LithiumBank – \$3.9M from ERA

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### Re-entry and drilling 2nd Well

Emissions Reduction Alberta (ERA) to refund 50% of these costs

~\$2,500,000

### DLE & Mineral Processing to Battery-grade Li Carbonate

ERA to refund 50% of these costs

\$850,000

### Feasibility Study, FEED (FEL 3), and FID

ERA to refund \$2,100,000

\$6,800,000

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



July 15<sup>th</sup>, 2025, LithiumBank meeting with Premier Danielle Smith

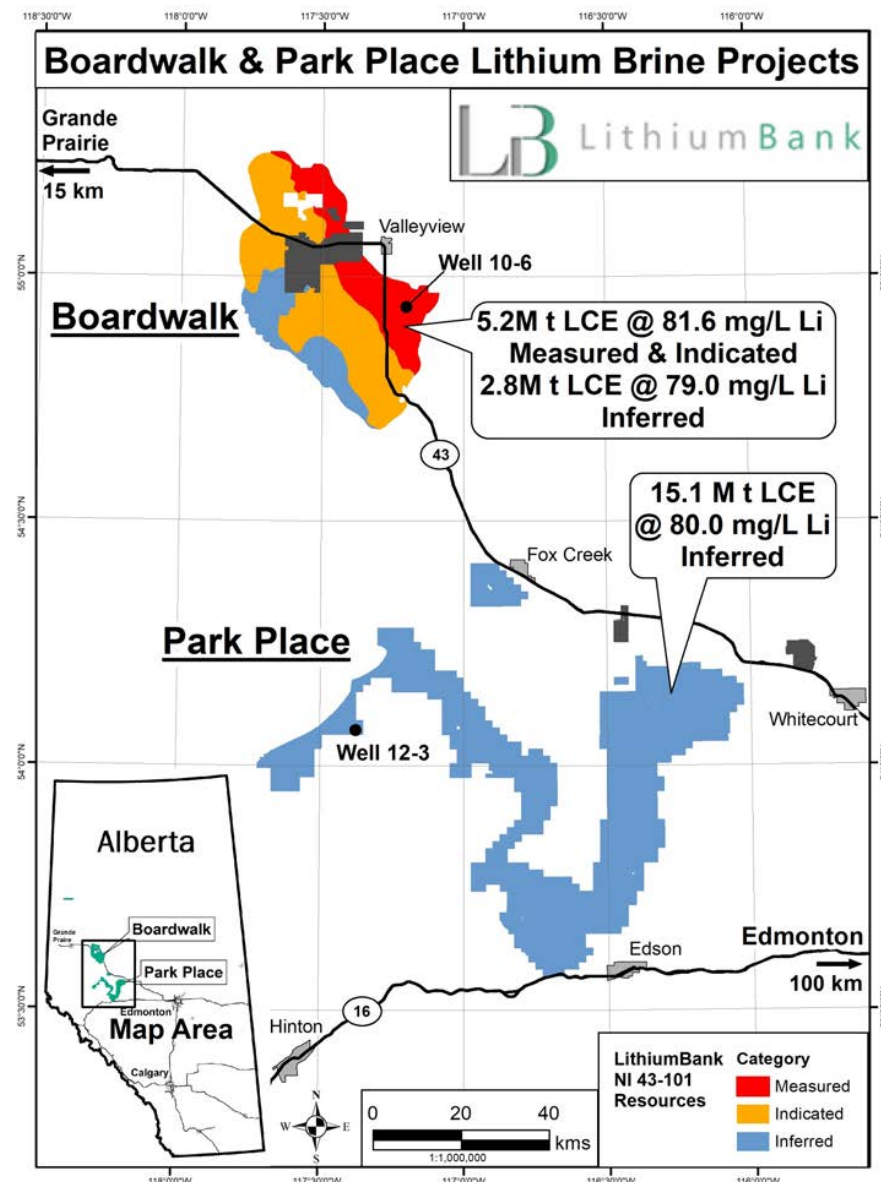
# LithiumBank Overview

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## MISSION

Commercialize Boardwalk with the lowest cost of capital per kg of battery grade lithium carbonate within the shortest timeframe while having the lowest negative environmental and social impact

Initial scope – two USD \$300M DLE modules @ 10,000 tpa LCE



## Status

- Invested greater than \$40M in exploration and development
- Defined two National Instrument (NI) 43-101 brine hosted Lithium Resource Estimates.

**Boardwalk** - 5.2 Mt LCE Measured and Indicated (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 80.0 mg/L lithium

- **Initiating Feasibility Study/FEED on Boardwalk to be completed by H1 2027**

# LithiumBank Team

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**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. Four of these assets he has sold have become producing mines.



**Rob Shewchuk**  
Co-Founder, CEO & Director

Mr. Shewchuk began his career with Yorkton Securities in Calgary, Alberta in 1996. He joined Standard Securities Capital Corp in 2004 and became Chairman in 2007 later merging with Wolverton Securities Ltd in 2009. He was 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**  
Chief Operating Officer

Mr. Piepgrass is a University of Alberta graduate and Professional Geologist registered with APEGBC and APEGA. Kevin has over 20 years of experience managing the exploration and development of commodities including gold, silver, copper, lithium, and rare earth elements.



**Logan Harris**  
VP Project Development

Having spent 18 years at ExxonMobil and the past several years positioned as Project Development (Global) Director, Mr. Harris brings a combination of analytical discipline and forward-thinking creativity across new venture development, strategic transformation, and organizational problem-solving. He builds structure from ambiguity, translates complex challenges into concise, actionable narratives that align stakeholders and drive executive-level decisions. He is a deliberate adopter of AI and digital tools; consistently creating more value with less friction. He thrives in growth-stage and transformation environments where both rigor and imagination are required. Known for results-orientated leadership that brings teams together around a clear mission and moves work forward with precision and purpose.

# LithiumBank Team

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**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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# Thank You

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**Rob Shewchuk**

Co-Founder, CEO & Director

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**July 2026**