

Developing the Largest Portfolio of Unconventional Direct Brine Lithium Projects in North America

Rob Shewchuk Co-Founder, CEO & Director

⊠ rob@lithiumbank.ca

www.LithiumBank.ca

November 2023

TSXV: LBNK OTC: LBNKF FRA: HT9

DISCLAIMER/FORWARD LOOKING STATEMENTS

This presentation is not, and nothing in it should be construed as, an offer, invitation or recommendation in respect of LithiumBank Corp., or an offer, invitation or recommendation to sell, or a solicitation of an offer to buy, the facilities or any of the Company's securities in any jurisdiction. Neither this presentation nor anything in it shall form the basis of any contract or commitment. This presentation is not intended to be relied upon as advice to investors or potential investors and does not take into account the investment objectives, financial situation or needs of any investor. All investors should consider such factors in consultation with a professional advisor of their choosing when deciding if an investment is appropriate.

The Company has prepared this presentation based on information available to it, including information derived from public sources that have not been independently verified. No representation or warranty, express or implied, is provided in relation to the fairness, accuracy, correctness, completeness or reliability of the information, opinions or conclusions expressed herein. These projections should not be considered a representation of the Company's potential cash generation performance in any way.

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", "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 completion of a Preliminary Economic Assessment ("PEA") on the Company's Boardwalk and Park Place projects and the corresponding expected timeframes for completion of the PEAs; (c) the implementation of the pilot plant brine testing at the Company's Boardwalk and Park Place projects and the corresponding expected timeframe; (d) the completion and publishing of an NI 43-101 Resource Estimate on the Park Place project in QI of 2024; (e) the shipping of G2L Greenview's Pilot Plant to Alberta in November of 2023; (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

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.sedar.com, 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 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 June 16, 2023, are available on LithiumBank's website (www.lithiumbank.ca/investors/documents) and SEDAR+ (sedarplus.ca)

Hard Rock



Greenbushes. Western Austra

Australia/China

Challenges:

- Lengthy & Costly Exploration
- **Longer Permitting Timelines**
- **Higher Operating Expenditures**
- **Environmentally Challenging**

Salars



SOM's Lithium Salt Flat Mine in Chile -Atacama

South America/China

Challenges:

- Higher Water Usage
- Longer Development **Timelines**
- **Environmentally & Socially** Challenging

NEXT GENERATION

Unconventional Brines

Advantages:

- North America based
- Large Production Rate Capacity
- Shorter Development Timelines
- Quicker to Permit
- Lower water Consumption

Less Mining, More Refining

<u>LITHIUM-RICH BRINE VOLUMES >93 km³</u>

BOARDWALK - Flagship Project - PEA Stage

- 6.2M tonnes (70.1 mg/l) of Indicated and Inferred LCE resources*
- PEA June 2023 Pre-tax US\$2.7B NPV*
- 17 km³ of lithium enriched brine*

PARK PLACE - Resource Definition Stage

- The largest reported lithium-rich brine project, by volume, in North America at 76 km^{3**}

CATALYSTS

BOARDWALK:

- DLE Preliminary Testing Results Nov 2023
- Updated PEA Dec 2023
- Pilot Plant Brine Testing Q1 2024
- Drilling and Well Sampling Q1 2024

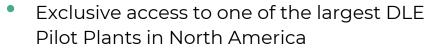
PARK PLACE:

- Drilling and Well Sampling Q1 2024
- Resource Estimate Q1 2024
- Pilot Plant Brine testing Q1 2024

DLE TECHNOLOGY

G2L GREENVIEW EXCLUSIVE DLE LICENSE:

- 2 years DLE review study with Hatch Ltd.
- 5 months of testing culminated in negotiating an exclusive license for primary DLE lithium production in Alberta and Saskatchewan



 Pilot Plant testing of Boardwalk and Park Place brines commencing Q1 2024



EXPERIENCE

INDUSTRY EXPERTISE:

Hatch, SLB, G2L Greenview, ZS2 Technologies, Invest Alberta

PROVEN MANAGEMENT TRACK RECORD:

LithiumBank's team includes Paul Matysek and Rob Shewchuk. Mr. Matysek was instrumental in the sale of Lithium X, Lithium One as well 4 other publicly listed solution mining companies for value received in excess of \$2B*

"Historical performance is not necessarily indicative of future results

^{**} See Press Release - Feb 27,2023

^{*} 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 June 16, 2023, are available on LithiumBank's website

[www.lithiumbank.ca/investors/documents] and SEDAP+ (sedarnlus ca)

DEVELOPING 2 DISTRICT-SCALE 2 PROJECTS IN ALBERTA

Boardwalk

Flagship Property

Park Place

- Resource Friendly Jurisdiction Alberta is a resource driven economy with a legacy of large-scale resource development projects, low risk mineral tenure, quick to permit, safe and secure
- **Pro-active Government -** Implemented legislation and regulation for Lithium brine production Bill C-82 and Directive 090
- Infrastructure Brownfield, 4 lane divided highway, rail, well pads, gas line network, power, water, local skilled labour force



BOARDWALK PROJECT

LARGEST PROPOSED LHM BRINE PRODUCTION IN NORTH AMERICA AT 31,350 TPA

Large Indicated and Inferred Lithium Resource and Encouraging Economics:

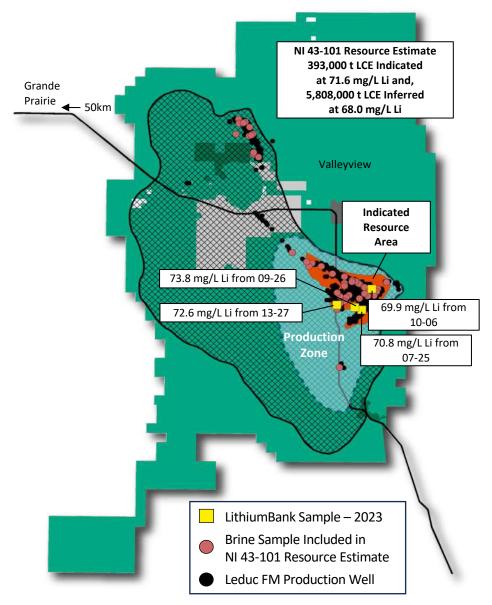
- 6.2 Mt LCE Indicated & Inferred (70.1 mg/l)
- Planned Production rate of 31,350 tpa over 20 yrs
- Pre-Tax NPV US\$2.7 Billion and EBITDA US\$586 Million

Large Land Package:

- Consolidated 572,237 contiguous acres
- 100% crown/no freehold royalties
- No carbon sequestration (pore space) overlap
- No active O&G production

Brine Tested DLE Technology:

- 2-years testing numerous DLE technologies with Hatch
- Based on extensive test work selected and negotiated an exclusive licensed DLE technology for primary lithium production in Alberta and Saskatchewan (G2L Greenview)
- Expected 10,000 liter/day Pilot Plant being delivered by Q4



^{*}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 June 16, 2023, are available on LithiumBank's website (www.lithiumbankca/investors/documents) and SEDAR+ (sedarplus.ca)

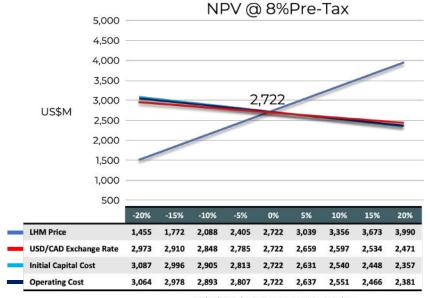
BOARDWALK PEA

HIGHLIGHTS

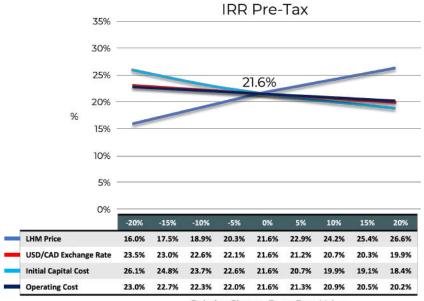
Description	Unit				
LHM Sales	t/year	31,350			
LHM Price	US\$/t	26,000			
Site Operating Unit Cost	US\$/t sold	6,941			
Site Operating Cost	US\$M/year	214			
EBITDA	US\$M/year	586			
Project Life	years	20			
Initial Capital Cost	US\$M	2,092			
Sustaining Capital Cost	US\$M	129			
USD/CAD Exchange Rate	US\$/C\$	0.74			
Pre-Tax NPV @ 8%	US\$M	2,722			
After-Tax NPV @ 8%	US\$M	1,657			
Pre-Tax IRR	%	21.6			
After-Tax IRR	%	17.8			
Pre-Tax Payback	operating years	4.1			
After-Tax Payback	operating years	4.5			
MAY 2023: CURRENT PRICING ENVIRONMENT FOR A PEA IN NORTH AMERICA					

^{*}A PEA is preliminary in nature as it includes a portion of inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized.

Strong leverage to LHM Price 7



Relative Change From Base Value



Relative Change From Base Value

^{*} 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 June 16, 2023, are available on LithiumBank's website (www.lithiumbank.ca/investors/documents) and SEDAR+ (sedarplus.ca)

BOARDWALK PEA II

UPGRADES



Capital Expenditure Reductions

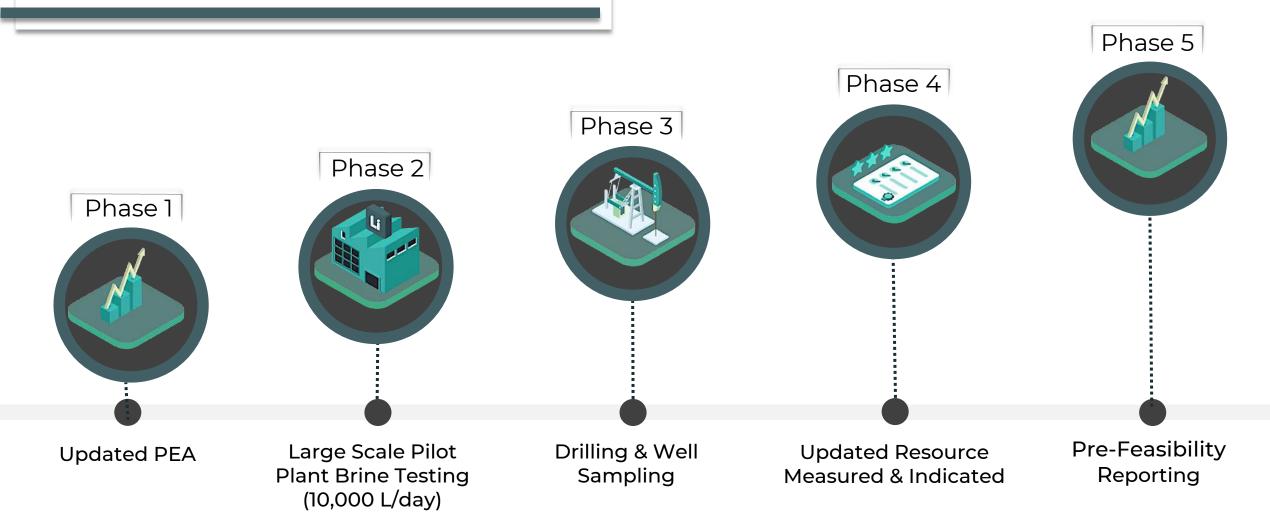
- Repurposing of existing oil and gas wells and surface infrastructure expected to significantly reduce capital expenditures
- Applying Provincial and Federal Tax Credits for critical minerals

Operating Expenditure Reductions

- Applying benefits of G2L Greenview test results to the PEA
- Reduction of well and power requirements through enhanced 3-D reservoir modelling and new drilling information
- Utilize ZS2 Technologies Inc. to capture and sequester CO₂ emissions to produce carbon credits, and lower brine reinjection amounts by at least 10%

BOARDWALK

OBJECTIVES FOR NEXT PHASES



^{*} While these reflect the Company's intentions, they are subject to a number of risks and uncertainties and there is no guarantee that they will occur.

12 Month Pre-Feasibility Objectives

PARK PLACE PROJECT

THE LARGEST REPORTED LITHIUM-RICH BRINE PROJECT BY VOLUME IN NORTH AMERICA AT 76 km^{3*}

Large Land Package:

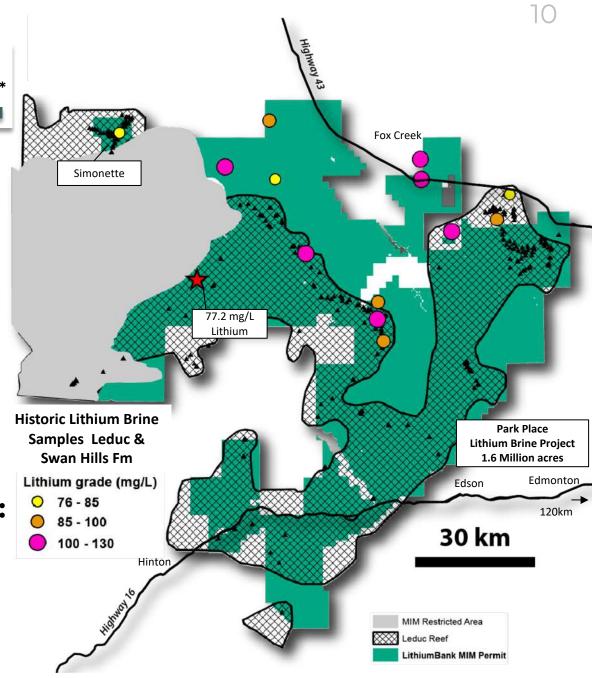
- Consolidated 1,571,364 acres of crown mineral titles ~95% of the Leduc reef lithium brine bearing complex
- Minimal overlap of carbon sequestration permits

Project Highlights:*

- Historic Li-brine samples assayed 76-130 mg/L Li
- Dec, 2022 brine sample reported 77.2 mg/L lithium
- 76.3 km³ (76.3 B m³) of lithium-bearing brine
- Max thickness: Leduc 350 metres & Swan Hills 250 metres

Development Objectives - Near term catalysts:

- Complete 3D seismic interpretation, detailed reservoir modelling, and DLE test work (SLB) by Q1 2024
- Publish NI 43-101 Resource Estimate (SLB) in Q1 2024
- Pilot testing of Park Place brine in H1 2024

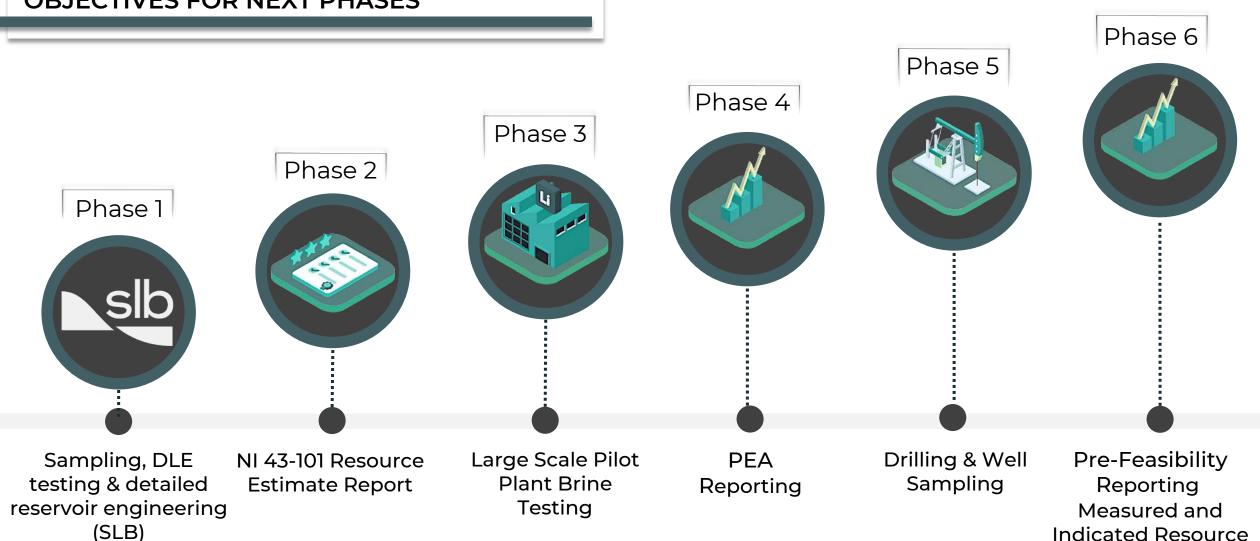


^{*} See Press Release - Feb 27, 2023

^{**} While these reflect the Company's intentions, they are subject to a number of risks and uncertainties and there is no guarantee that they will occur.

PARK PLACE

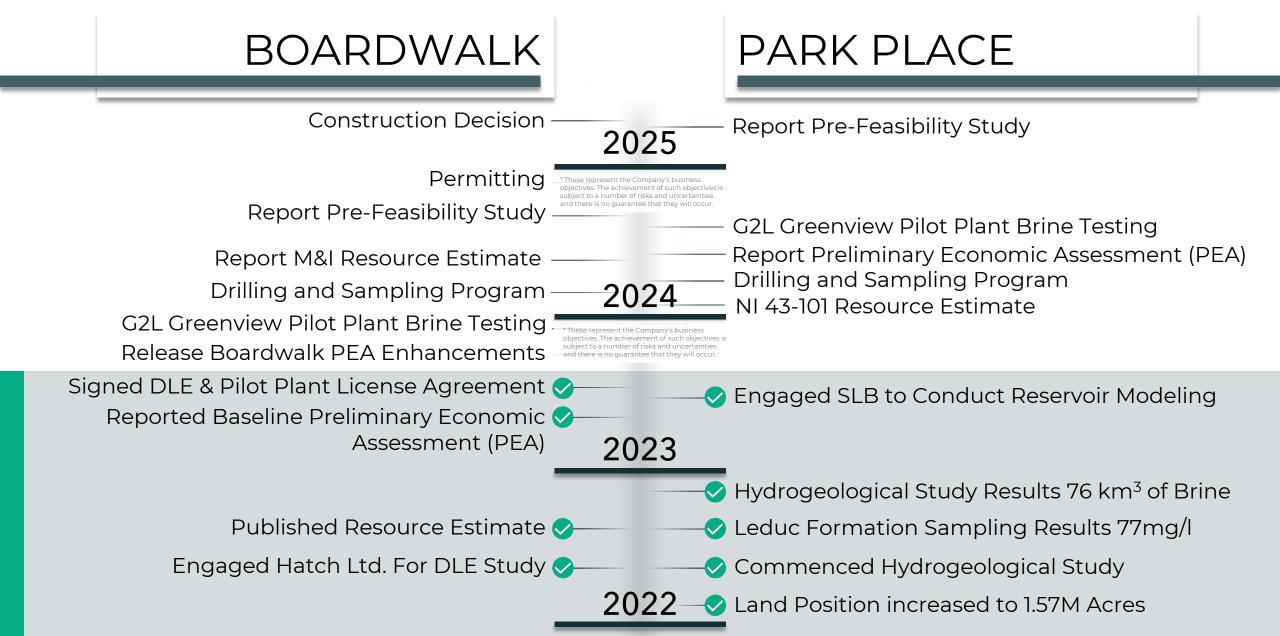
OBJECTIVES FOR NEXT PHASES



^{*} While these reflect the Company's intentions, they are subject to a number of risks and uncertainties and there is no guarantee that they will occur.

18 Month Pre-Feasibility Objectives

PROJECT DEVELOPMENT TIMELINE OBJECTIVES



SASKATCHEWAN PORTFOLIO

THREE SASKATCHEWAN PROPERTIES READY FOR NEXT STAGE OF DEVELOPMENT

Kindersley

Adjacent to Grounded Lithium (TSX-V:GRD), an active operator in the freehold land within Pristine's crown land position that announced a positive PEA with Pre-Tax \$1B in NPV and a 48% IRR.

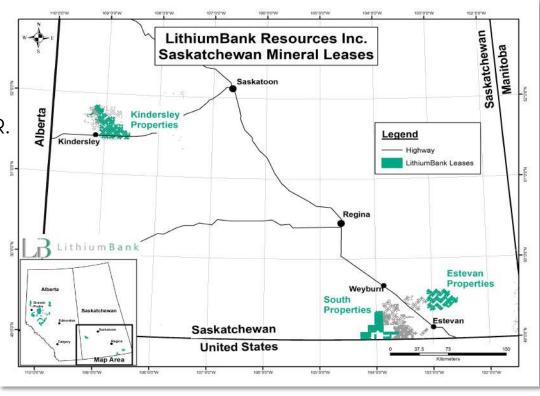
South Property

Southwest of Arizona Lithium (ASX:AZL) who purchase Prairie Lithium's Williston Basin project for \$70M representing ~C\$195/acre in early 2023.

Estevan

Located in an area with the highest reported lithium grades in Western Canada – EMP Metals (CSE:EMPS) reported well sampling results of up to 148mg/L Li on January 26th, and 259mg/L Li on February 21st, 2023.

Adjacent Properties Cumulative Valuation in Excess of \$120M



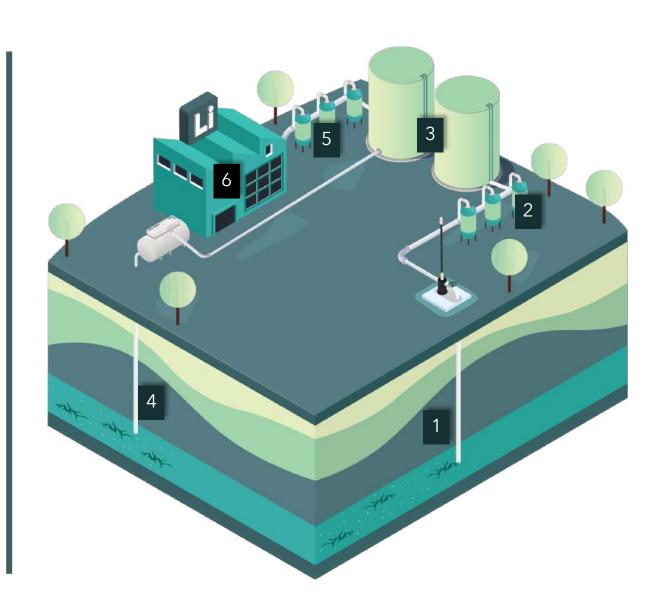


<u>July 31, 2023</u> - LithiumBank entered into a definitive asset purchase agreement with Pristine Lithium Corp whereby the company will sell Pristine all 3 Saskatchewan Properties in exchange for:

- \$2 Million cash
- Additional \$1 Million in cash or stock upon
 Pristine filing a PEA on any of the properties
- 40 Million shares representing ~47% ownership of Pristine
- 20 Million warrants to purchase additional 20 Million shares of Pristine at 45c/share for 2 years from date of issuance

PRODUCTION PROCESS

- Brine is extracted from a reservoir using traditional methods, potentially utilizing pre-existing O&G infrastructure.
- 2 Brine pre-treatment.
- Direct Lithium Extraction (DLE) method using G2L Greenview proprietary technology. This is highly effective in concentrating lithium.
- The lithium depleted brine is re-injected into the formation.
- Lithium concentrate then goes through traditional processes of polishing and electrolysis. Fresh water used in this process is largely recycled.
 - High purity, battery grade lithium hydroxide is produced on site as the end product.



LITHIUMBANK'S DLE ADVANTAGE

ION EXCHANGE TECHNOLOGY WITH OVER 20 YEARS OF OPERATIONAL EXPERIENCE

- Invested over 2 years and \$1M in search of efficient and high performing DLE technology
- Test work indicates the Licensed Technology can reduce operating costs by increasing lithium recovery and selectivity, reducing reagent costs, and improving the lithium concentrate
- Exclusive to LithiumBank in Alberta and Saskatchewan as a primary Lithium producer
- Exclusive access to one of the largest DLE Pilot
 Plants in North America up to 10,000 litres/day



Commercial facility using Clean TeQ's continuous Ion Exchange processing design

Visit Go2Lithium.com

G2L Greenview is a 50/50 joint venture with Computational Geosciences Inc. (CGI), a subsidiary of the Robert Friedland-chaired Ivanhoe Electric Inc. (NYSE:IE) and Clean TeQ Water (ASX:CNQ)

LITHIUMBANK

DLE BRINE TESTING TIMELINE OBJECTIVES

2023 Q2-Q3 5 Months of test work with G2L demonstrated the technology is well suited for Boardwalk brine

2023 November

Pilot Plant expected to be shipped to LithiumBank by November

2023 December

Installation & Commissioning

2024 Q1

Pilot Plant Testing



3D Render of the G2L Greenview Pilot Plant to be shipped to LithiumBank in November 2023

BOARDWALK - CLEARWATER

CLOSED THE GAP TO INTENDED PRE-FEASABILITY FROM >4 YEARS TO <6 MONTHS</p>



*These represent the Company's business objectives. The achievement of such objectives is subject to a number of risks and uncertainties and there is no guarantee that they will occur.

Drilling & M&I Resource Upgrade **Pilot Plant Studies** Updated PEA Release

Baseline PEA Release

I&I Resource Upgrade

Pilot Plant Studies

2023 Drilling & M&I Resource Upgrade

I&I Resource Upgrade

PEA Release

2022

Inferred Mineral Resource

Project Acquisitions ~4M acres

2021

2020

2019

2018

2017

Inferred Mineral Resource

10/02/2023



\$270M

Market Cap Million

Million Tonnes M&I (Clearwater LCE)

4.3

6.2

Million Tonnes I&I (Boardwalk LCE) \$49M

Market Cap 10/02/2023

2016

Project Acquisitions ~1.4M acres

^{*}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 June 16, 2023, are available on LithiumBank's website (www.lithiumbank.ca/investors/documents) and SEDAR+ (sedarplus.ca)



COMPARABLE INVESTMENT METRICS

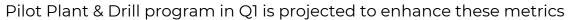
BOARDWALK / CLEARWATER





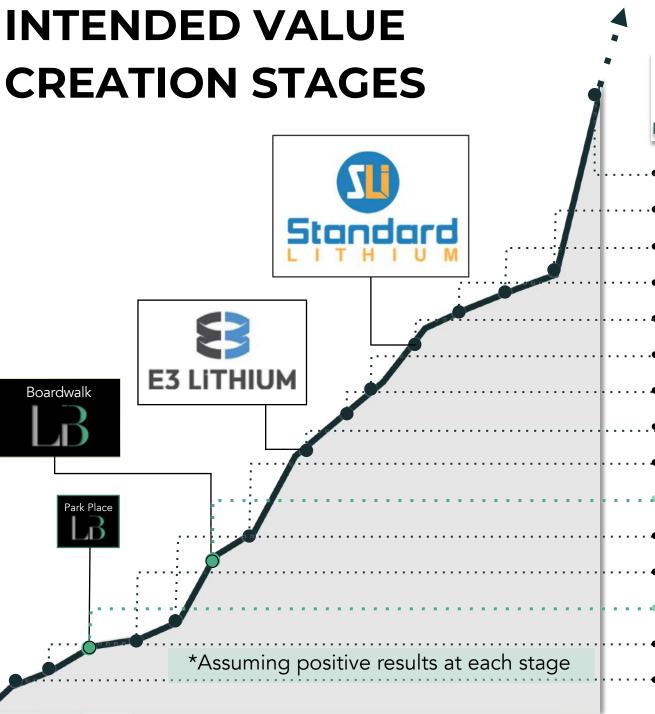
Category	Description	Boardwalk	LB	(3)	Clearwater
Corporate	Established Location Development Partners Production Product DLE Type Est. Production Date	2019 Central Alberta Schlumberger (SLB) LHM Ion Exchange 2027			2017 Central Alberta Imperiall Oil (IMO) LHM Ion Exchange 2027
	Stage	*Pilot Plant Production Q4 2023 (~10k l/d)		>	Pilot Plant Production Q3 2023 (~2k l/d)
	Market Cap OS (\$M) (Oct 2/23)	\$49	<		\$270
Tenure	Permit Size (Hectares) Permit Type	211,809 100% Crown	۲۲		157,305 55% Crown
	Freehold Royalties Payable	No	/		Yes
	Brine Volume (km3)	17	>		11
	Carbon Sequestration Overlap	0%	\		100%
	Active Oil & Gas Production Overlap	No	/		Yes
Resources	PEA tpa	31,350	\		20,000
	Measured & Indicated (Mt LCE)	TBA Q1 2024		V	4.3
	Indicated & Inferred (Mt LCE)	6.2			-
	Lithium Grade (mg/L)	70.1		>	74.5
Reservoir	Porosity (%)	5.3		>	6.63
	Primary Formation	Leduc			Leduc
	Rock Type	Dolomite			Dolomite
	Aquifer Thickness (m)	Confined 206			Confined 205
	Depth (m)	2,500			2,500
Chemistry	pH	6.7			7.04
	Tempurature (Degrees Celcius)	75			75
	Total Dissolved Solids	200,000			220,000







Projected



Intended Exploration & Development Stages

- Produce Direct Brine Lithium Hydroxide
- Commence Commercial Construction
- Financing
- Bankable Feasibility Study
- Commercial Demonstration Plant Success
- Permitting
- Pre-feasibility Study
- DLE piloting
- Resource Upgrade and Expansion

Preliminary Economic Assessment (PEA)

- Initial Resource Estimate
- DLE Test work

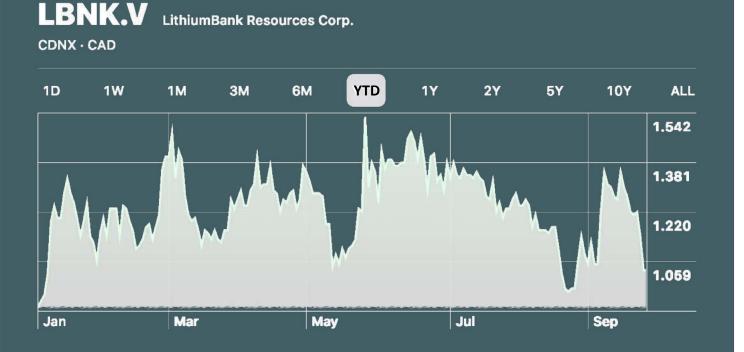
Hydrogeological Study

- Sampling Program
- Project Acquisition

SHARE STRUCTURE

*Insiders ~35% S/O

*Including Insiders, Friends, Family at June 30th, 2023



49,882,939Shares Outstanding

5,639,625 Options

7,357,959

Warrants

62,880,523 Fully Diluted

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.

GO2L/THIUM

View Press Release

LithiumBank has an exclusive license agreement with G2L Greenview for its DLE processes for primary lithium brine projects in Alberta and Saskatchewan.

HATCH

View Press Release

Hatch was engaged by LithiumBank to assess DLE processes available globally to form the basis of Boardwalk's baseline PEA published in May 2023.



View Press Release

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



View Press Release

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

WHY LITHIUMBANK?

2 District Scale Projects In North America

EXCLUSIVE DLE TECHNOLOGY

LARGE-SCALE PILOT STAGE

NEAR TERM PRODUCTION

EXPERIENCE SELLING LARGE SCALE PROJECTS TO MAJORS

6 PUBLIC TAKE OUTS BY MAJORS TOTALING OVER \$2 BILLION

LITHIUMBANK TEAM



Paul Matysek, M.Sc. (Geochem)

Executive Chairman

Sold 6 publicly listed exploration and development companies, in aggregate worth over \$2 billion.

- Energy Metals Corp.
- Lithium X Energy Corp.
- Lithium One
- Gold X Mining
- Goldrock Mines Corp.
- Potash One

Rob Shewchuk Co-Founder, CEO & Director

Former Chairman of Standard Securities Capital Corp. Merged it with Wolverton Securities Ltd. and sold to PI Financial Corp. with \$6 Billion in AUM.

Director of:

- Caerus Capital Partners Inc.
- Graphene Manufacturing Group Pty.
- DCARB Cleantech Solutions
- Spectre Capital Corp.

Kevin Piepgrass, P.Geo

University of Alberta Graduate and Professional Geologist, registered at APEGBC. Over 15 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

