

Executive Summary

BOARDWALK – Flagship Project – PEA Stage

- **5.2 Mt LCE (81.6 mg/L)** of Indicated and Inferred LCE resources*
- PEA Jan 2024 **Pre-tax US\$3.7B NPV***
- **17 km³** of lithium enriched brine

PARK PLACE – Resource Stage

- One of North America's largest NI 43-101 Inferred brine resource
- **15.2 Mt LCE (80.0 mg/L)** between the Leduc and Swan Hills Fm
- Multiple areas of >350m in combined reservoir thickness

DLE Technology

- Exclusive Licensed Technology has **low operating** costs and **high selectivity**
- Recent test work reports **>3,000 mg/L** & **98%** lithium recovery in eluate
- Controls one of the largest **DLE Pilot Plants** in North America

Proven Management Track Record

- Executive Chairman, Paul Matysek has multiple PubCo exits totaling **>\$2 billion**
- Over **\$40M** invested to date
- **~40%** owned by Insiders, Friends and Family

Boardwalk

Large Indicated and Inferred Lithium Resource, Strong Economics and Near-Term Catalysts

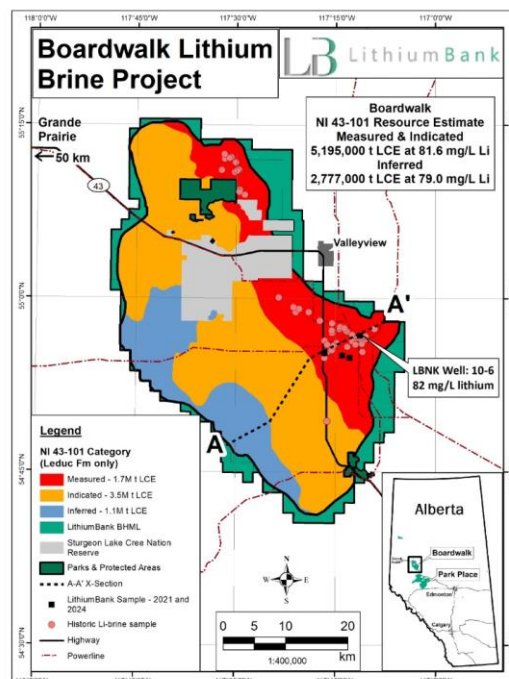
- Drill and sample reservoir – **H2 2024**
- Establish M&I resource – **H2 2024**
- Commence piloting Boardwalk brine – **H2 2024**

District Land Package:

- **5.2 Mt LCE** Measured and Indicated (**81.6 mg/L**) and **2.8 Mt Inferred @ 79 mg/L** Lithium
- **395,308** contiguous acres
- **100% crown/no** freehold royalties
- No carbon sequestration (pore space) overlap
- **No active O&G** production

2024 Boardwalk PEA* Highlights

Description	Units	
LHM Sales	t/year	34,005
LHM Price	US\$/t	26,000
Site Operating Unit Cost	US\$/t sold	4,588
EBITDA	US\$/year	715
Project Life	years	20
Initial Capital Cost	US\$M	2,160
Sustaining Capital Cost	US\$M	131
USD/CAD Exchange Rate	US\$/C\$	0.73
Pre-Tax NPV @ 8%	US\$M	3,679
After-Tax NPV @ 8%	US\$M	2,305
Pre-Tax IRR	%	25.0
After-Tax IRR	%	20.6
Pre-Tax Payback	operating yrs.	3.5
After-Tax Payback	operating yrs.	3.9



*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.

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

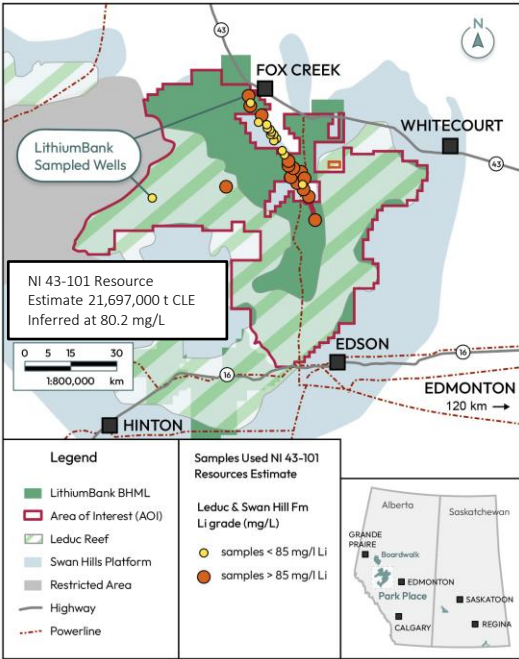
* The mineral resource NI 43-101 Technical Report for the Boardwalk Project, with effective date Dec. 20, 2022, identified 395,000 t LCE Indicated and 5.73 Mt LCE inferred and the NI 43-101 Preliminary Economic Assessment, Technical report, with effective date January 16, 2024, are available on LithiumBank's website (www.lithiumbank.ca/investors/documents) and SEDAR+ (sedarplus.ca)

Park Place

- **15.2M tonnes LCE** (80.0 mg/l) between the Leduc and Swan Hills Fm
- **538,359** acres of crown mineral titles **~95%** of the Leduc reef lithium brine bearing complex at Fox Creek, AB
- 100% owned crown/no freehold royalties

Project Highlights:

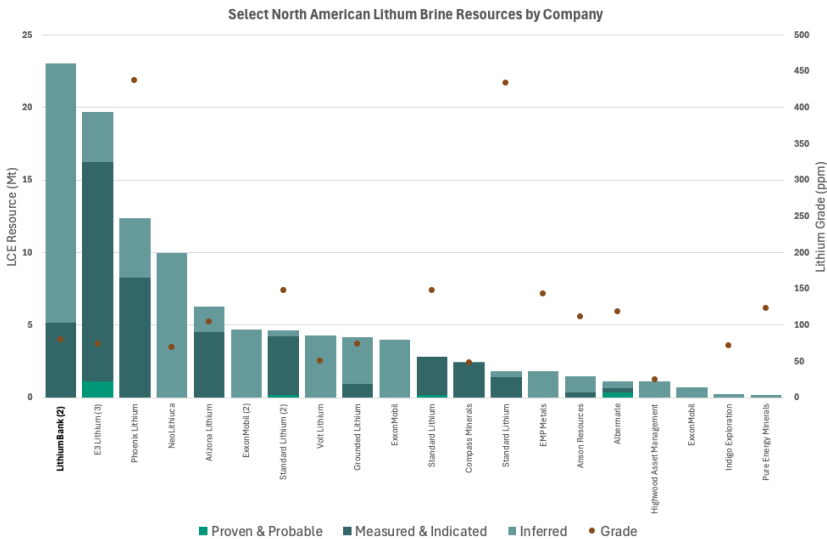
- **Highest grade lithium** resource estimates in **Alberta** at 80.9 mg/L in the Leduc Fm and 79.4 mg/L in the Swan Hills Fm
- **SLB** conducted subsurface reservoir modelling aided by 3D & 2D seismic over 450 wells with 40 Li brine samples
- Multiple areas of **>350m** in combined reservoir **thickness**



Alberta Advantage

- Awarded **\$3.9M** in Non-Dilutive Funding from **Emissions Reduction Alberta** to Advance Boardwalk Lithium Brine Project
- The **ERA Program will refund** the Company 50% of eligible expenditures for each milestone as it is completed
- Funding will be used for:
 - Complete an additional drill hole through the Leduc formation reservoir at Boardwalk to support an advanced reservoir model and collect additional brine
 - Complete a Feasibility Study at Boardwalk that assesses a low Capex, modular approach to lithium production.

Globally Significant Lithium Portfolio



Capital Structure

Shares O/S

63,133,138

Options

7,059,625

Warrants

11,684,787

Fully Diluted

81,877,550