



# SURGE

## BATTERY METALS

Exploring For Clean Energy Metals to Drive Tomorrow's Electric Vehicles

TSXV: **NILI** | OTC PINK: **NILIF** | FRA: **DJ5**

[surgebatterymetals.com](https://surgebatterymetals.com)

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## Qualified Persons

Alan Morris, CPG, is the QP who has reviewed the technical contents of this presentation with respect to the Nevada Lithium claims. Jacques Houle, P.Eng. is the QP who has reviewed the technical contents of this presentation with respect to the Nickel Project. Qualified Persons are defined in National Instrument 43-101 and based on standards established by the Canadian Institute of Mining, Metallurgy and Petroleum (CIM).

# GROWING COMPANY

Surge Battery Metals Inc. is a Canadian based exploration company focused on locating & developing high value deposits of clean energy battery metals that are vital to the rapidly growing electric vehicle (EV) market.

**MINING**  
[DOT] **COM**

**Low carbon  
world needs \$1.7  
trillion in mining  
investment**

May 10, 2021



\$3.4M CAD in the  
Treasury



Targeting battery metals  
with rapid demand growth



Advancing 3 lithium  
projects in Nevada



Advancing 1 nickel  
project in BC



# ESG MANDATED

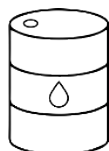


As an ESG (Environmental, Social and Corporate Governance) committed company, we're focused on battery metals that will advance the adoption of electric vehicles (EVs) to create a cleaner world while building new industries.



## Carbon-Neutral Opportunities

Testing shows Mg rich mining tailings can capture significant CO<sub>2</sub>. This natural process is expected to enable carbon-neutral nickel mining operations.



## Reducing Oil Demand

EVs displace 1M+ barrels per day. By 2050, EVs and fuel cell vehicles are expected to displace 21M barrels per day.

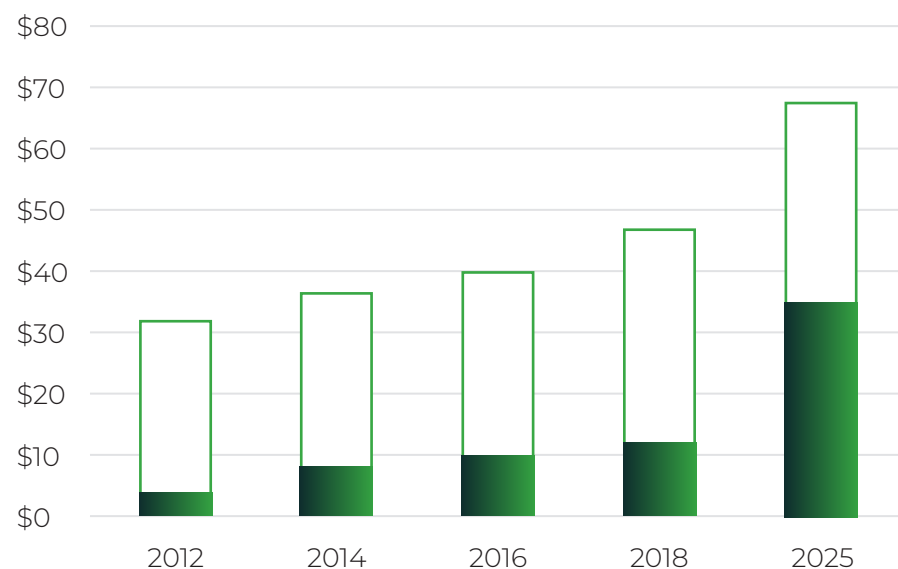


## Less Electricity Than Expected

If almost all road transport was fully electrified by 2050, it would only add 25% to global electricity demand.

## The Rise of ESG-Mandated Investing

ESG-mandated assets to **grow almost 3x as fast** as non-ESG-mandated assets to hit 50% by 2025.



■ ESG-mandated  
□ non-ESG-mandated



# PROVEN TEAM



Our team has the know-how to grow the Company rapidly and sustainably, from business building to strategy, marketing, capital markets and administration.

## **GREG REIMER** *President & CEO*

Former Executive Vice President of Transmission and Distribution for BC Hydro, British Columbia's electric utility serving 4 million customers with \$5.5 Billion in annual revenue. Prior experience includes Deputy Minister of Energy, Mines and Petroleum Resources, Chair of the BC Oil and Gas Commission and Deputy Minister of Provincial Revenue. Greg has solid knowledge in the energy industry and organizational governance from serving on many corporate and industry boards.

## **GRAHAM HARRIS** *Director*

Mr. Harris was the Founder, Chair and Director of Millennial Lithium Corp., which was recently acquired by Lithium Americas for \$490M. With more than four decades of experience in the finance industry, Mr. Harris has held senior VP positions at Canaccord Genuity Corp. and Yorkton Securities. He has successfully raised over \$400 million in development and venture capital for public and private companies. Additionally, he co-founded Cap-Ex Iron Ore Ltd. and served as a founding director of M2 Cobalt Corp., which was acquired by Jervois Global Ltd. Currently, Mr. Harris holds the position of Senior VP, Capital Markets, and director at Millennial Potash Corp.

## **IAIN SCARR** *Director*

Mr. Scarr is the founder of IMEX Consultants, an industrial minerals consultancy that operates across the entire value chain. With over 30 years at Rio Tinto, he served as Commercial Director and VP of Exploration, spearheading several mineral discoveries in North and South America and Africa. Following his tenure at Rio Tinto, Mr. Scarr successfully guided three lithium projects in Argentina to the feasibility study stage before they were acquired.

## **ROBERT CULBERT** *Director*

Professional engineer with over three decades of international project and business experience. Over the past decade, he has served as an officer and director of several junior resource exploration and development companies.

## **GORDON JUNG** *Director*

35+ years experience in business operations, including retail, merchandising, marketing and product development. Gordon specializes in strategic planning, driving revenues, improving competitive market positions, procurement, and product marketing.

# EXPERIENCED ADVISORS



Our advisors give us the advantages of expertise in resource finding & development, and successfully navigating regulations and international projects.

## **JEREMY HANSON, P.ENG.**

### *Geological Advisor*

Over a decade of experience in mineral exploration throughout Canada. Broad geological knowledge with experience in magmatic Ni-Cu, porphyries, epithermal, lode gold, and VMS deposits.

## **JAMES HELLWARTH**

### *Strategic Advisor*

Managing partner of Xander Capital. 13 years of experience establishing relationships with high net-worth individuals and organizations; small cap company business development & strategy; raising capital & creating new opportunities.

## **ALAN MORRIS, CPG**

### *Geological Advisor*

Certified Professional Geologist with 37+ years in minerals industry. Experience with lithium brine deposits in Nevada. Owner of Ruby Mountain GIS (property evaluations and acquisitions).

## **CHIP RICHARDSON**

### *Strategic Advisor*

Lifelong banker. Assistant VP, Investments for Wedbush Securities. Upon earning B.Sc. Economics, was hired as Financial Advisor by Dean Witter Securities, now Morgan Stanley. Worked at Paine Webber, now UBS.

# ESSENTIAL & DOMESTIC BATTERY METALS



Nickel and Lithium are the backbone of leading-edge battery technologies while representing the best opportunities to create secure, domestic supply solutions for North American auto makers and battery manufacturers.

## NICKEL 5%

- Provides higher energy density
- Lowers energy storage cost
- Enables longer drive ranges

## LITHIUM 2%

- Lithium-ion batteries have one of the highest energy densities
- Comparatively low maintenance
- No memory effect

# STRATEGIC BATTERY METAL TARGETS



We only target battery metals that have rapid demand growth forecasts and that are positioned to outperform in the market.

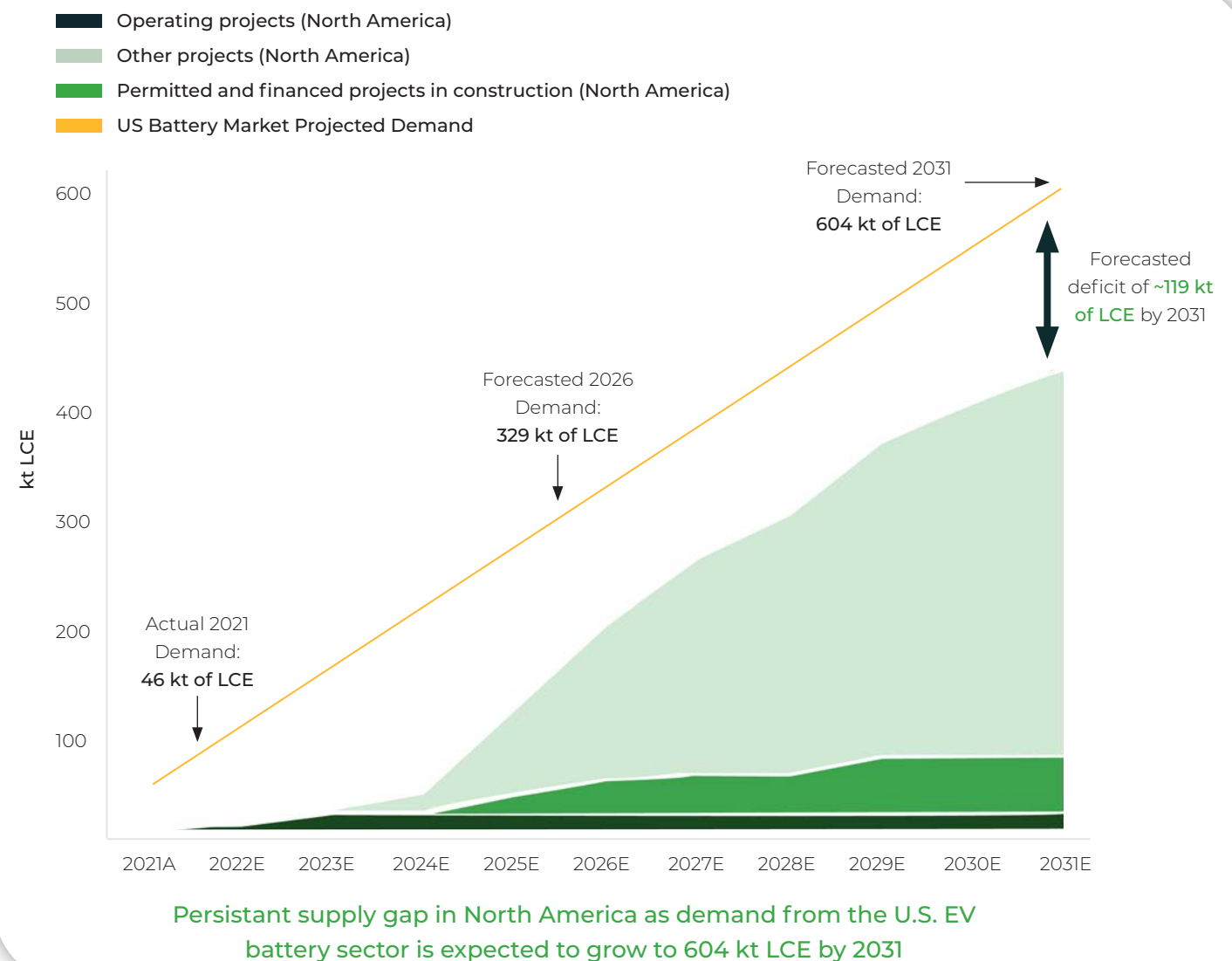


# US LITHIUM FORECAST - A LARGE DEFICIT



- Defense Production Act
- Inflation Reduction Act
- Streamline Permitting?

When President Biden signed the Inflation Reduction Act (IRA) into law, clean energy leaders recognised that this was the largest federal investment in alternative energy and sustainability in American History.



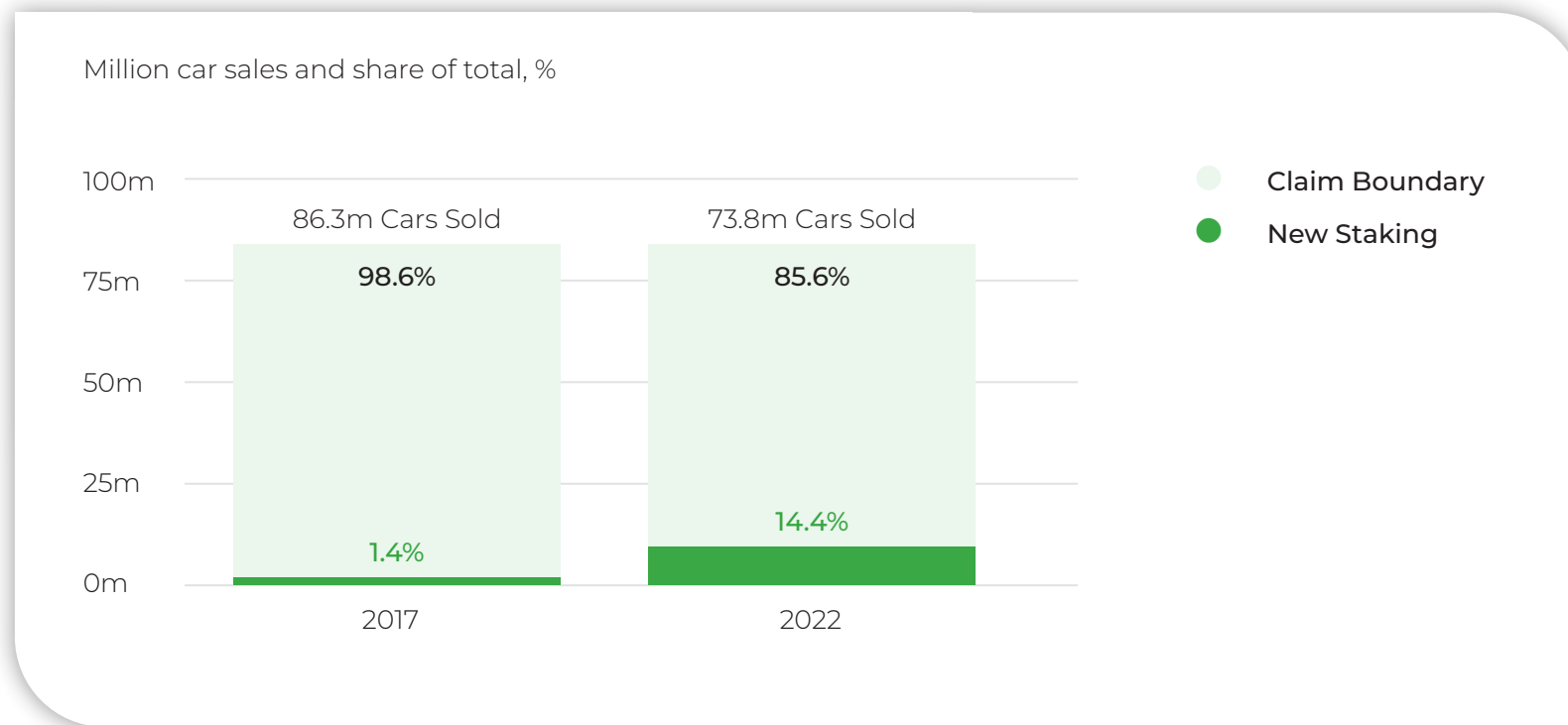
Sources: Benchmark Mineral Intelligence  
(1) North America includes Canada, US and Mexico  
(2) Gwh demand estimates converted into LCE using a 0.8t LCE per Gwh factor





## ONE IN EVERY SEVEN CARS SOLD GLOBALLY IS NOW AN EV...

...While conventional car sales are down by a quarter in five years



Source: IEA

# NEVADA



Nevada currently has the highest lithium production potential of any state in the US. This world-class mining region is home to America's only current lithium production and one of the country's largest lithium deposits while being ideally positioned to supply domestic and Asian markets.



**Mining-Friendly Regulations**



**Stable Political Environment**



**Producing Lithium Since 1966**



**Eco-Friendly Rail Lines**

1,770+ km (1,100+ miles)



**Top-Ranked Mining Jurisdiction**

Ranked #1 in the world by The Fraser Institute (2020)



**Effective & Successful Reclamation**

Strong ethic towards restoring mined land to a natural or economically usable state



**Local Demand Scaling Up**

Tesla's production target is 20M cars by 2030



## NEVADA NORTH



Our Nevada North Lithium Project's contains a potentially significant lithium clay deposit, the result of a maiden drill campaign. It shares similarities to Lithium America's Thacker Pass –one of America's largest lithium clay deposits and Nevada's Clayton Valley, home to America's only current lithium production. Follow up drilling will commence this spring to further expand the known lithium bearing clay horizons.



Hole ID	From ft	To ft	Thickness ft	From m	To m	Thickness m	Avg Li ppm
Hole #1	15	60	45	4.57	18.29	13.72	3826
	90	145	55	27.43	44.19	16.76	2958
	160	225	65	48.77	68.58	19.81	2388
		Total	165			50.29	
Hole #2	50	65	15	15.24	19.81	4.57	2065
		Total	15			4.57	
Hole #3	15	135	120	4.57	41.15	36.57	3895
	170	200	30	51.81	60.96	9.14	3210
	235	250	15	71.62	76.2	4.57	1480
		Total	165			50.28	
Hole #4	5	100	95	1.52	30.48	28.95	3929
	135	165	30	41.15	50.29	9.14	2563
		Total	125			38.09	
Hole #5	15	115	100	4.57	35.05	30.48	4000
	155	190	35	47.24	57.91	10.67	2020
	220	230	10	67.05	70.1	3.05	2216
		Total	145			44.2	
Hole #6	50	85	35	15.24	25.91	10.67	1590
Hole #7	50	155	105	15.24	47.24	32	4092
	165	225	60	50.29	68.58	18.29	4081
	245	365	120	74.67	111.3	36.57	3884
	375	435	60	114.29	132.6	18.29	3676
	465	495	30	141.73	150.9	9.14	
		Total	375			114.29	
Hole #8	25	70	45	7.62	21.33	13.72	3621
	80	260	180	24.38	79.24	54.86	3207
	270	285	15	82.29	86.86	4.57	1780
		Total	240			73.15	



# Important Lithium Bearing Clay Deposits in the USA


 **SURGE**  
BATTERY METALS

OTCPinks: **NILIF** \$0.18

## Surge Battery Metals

- Nevada North Lithium Project
- **8 drill holes** with average grade of mineralized horizons **3200 ppm**
- Claystone units modelled using a **1000 ppm** cutoff
- Estimated **10 year** forward looking price for Tonne of LCE: **US \$25,000**
- 133,336,458 Fully Diluted

Surgebatterymetals.com


 **NORMAN LITHIUM CORP**

OTCQB: **NRVTF** \$0.58

## Norman Lithium Corp

- Zeus Lithium Project
- Grade: **923 ppm lithium**
- Base Case at a 400 ppm lithium cut-off grade, the zeus deposit has 363 million tonnes measured + indicated resources, and 82 million tonnes lithium at 884 ppm lithium inferred resources.
- 103,300,000 Fully Diluted

Noramlithiumcorp.com

 **CENTURY LITHIUM CORP**

OTCQB: **CYDVF** \$0.75

## Century Lithium Corp

- Clayton Valley Lithium Project
- Grade: **905 ppm lithium**
- 1,304.2million tonnes averaging 904.7ppm Li in the Indicated Resource. The Inferred Resource is 236.4million tonnes averaging 759.6ppm Li
- Reserves and Indicated Mineral Resource based on cut-off grade of 400 ppm lithium
- 175,300,000 Fully Diluted

Cypressdevelopmentcorp.com


 **AMERICAN LITHIUM**

NASDAQ: **AMLL** \$3.37

## American Lithium Corp

- TLC Project
- Grade: **932 to 1256 ppm lithium**
- The 2019 drill program intersected samples up to 2,460 ppm lithium with numerous samples over 1,000 ppm lithium
- Surface grab samples taken on the TLC claims, assay from 220 ppm to 1810 ppm lithium, with multiple samples above 1,000 ppm lithium
- 255,000,000 Fully Diluted

Americanlithiumcorp.com

 **LONEER LTD**

NASDAQ: **IONR** \$0.28

## Loneer Ltd

- Rhyolite Ridge Project
- Grade: **1800 ppm lithium** +16,950 ppm boron
- 2020 Mineral Resource contains 77.6Mt at 1,800ppm lithium and 16,950ppm boron, the average grades of 1,600ppm lithium and 14,200ppm boron in the total Mineral Resource.
- 2,100,000,000 Fully Diluted

loneer.com

 **Lithium Americas**

NYSE: **LAC** \$28.25

## Lithium Americas Corp

- Thacker Pass Project
- Grade: **3283 ppm lithium**
- Cut-off grade: 2500 ppm
- Proven and Probable 179 million tonnes
- 135,000,000 Fully Diluted

Lithiumamericas.com

Data compiled by Surge Battery Metals

All Prices are in USD

# NEVADA NORTH



Mapping has identified regional rocks as being of similar age & composition as the McDermitt Tuff that hosts Lithium America's Thacker Pass lithium deposit, one of America's largest

- Exploration results to date have exceeded expectations
- A highly anomalous zone containing sample points of 1,000 ppm lithium extends ~1,700 meters east-west in 2 bands, each ~300-400 meters wide
- Results achieved include some of the highest lithium values (as high as 5,120 ppm) reported to date in Nevada
- Drilling in eight holes has confirmed the presence of an extensive lithium bearing clay deposit open to extension.**
- Phase 2 infill drilling estimated budget of USD\$500,000



100% Interest



0% NSR



243 mineral claims in 1 group



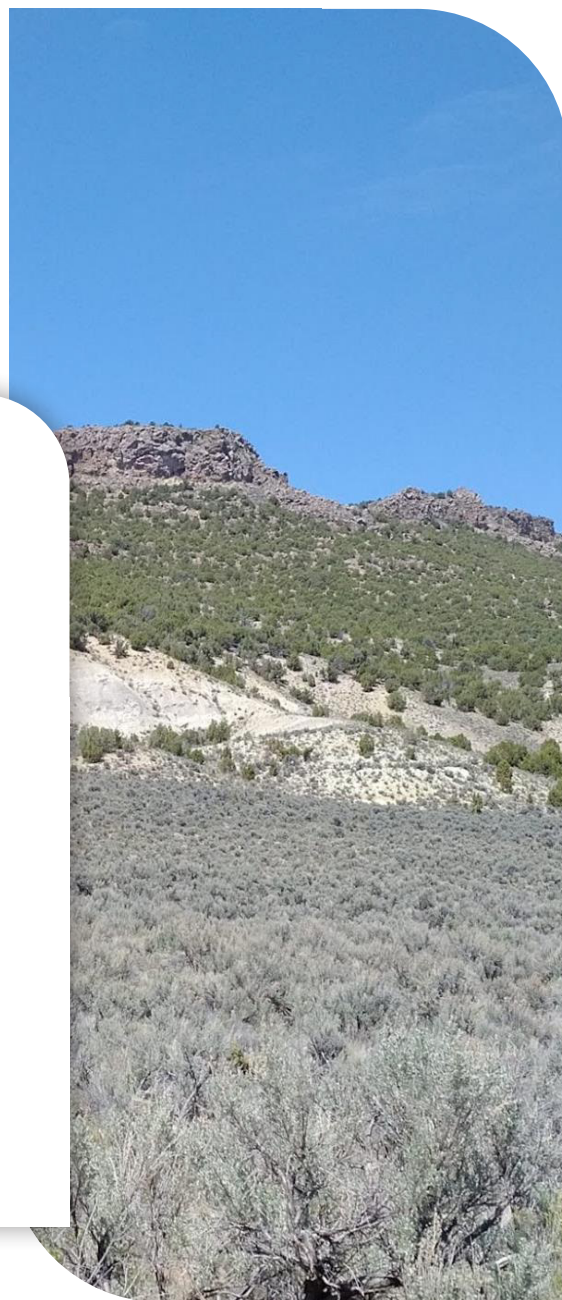
Elko County, Nevada, USA  
Granite Range



Major power line ~13 km (~8 mi) to the east



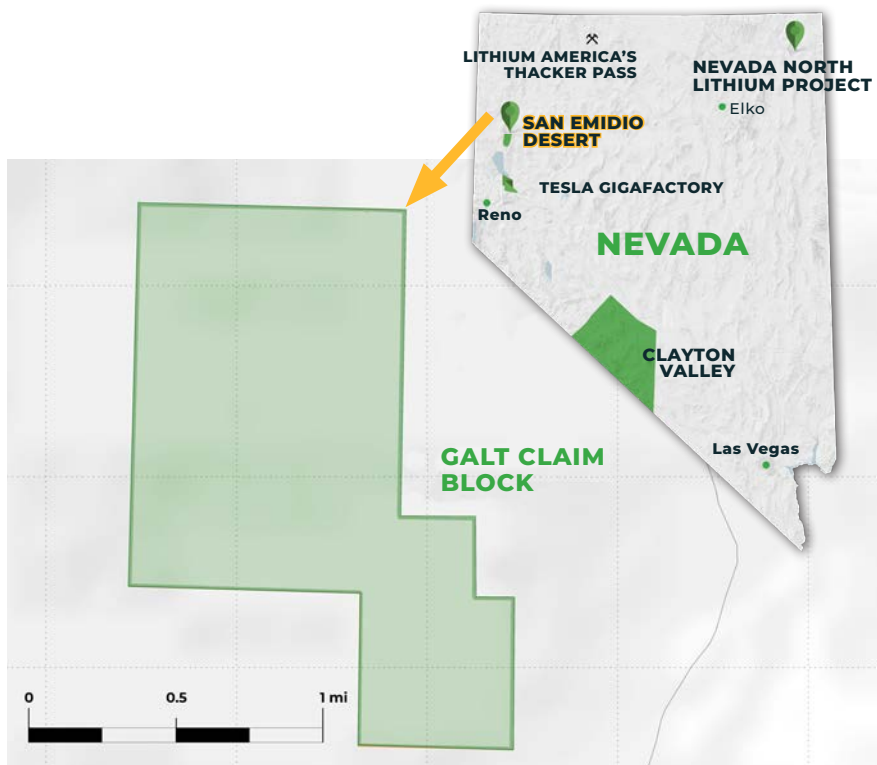
Property access by  
~32 km (~20 mi) of county-maintained gravel roads & ~5 km (~3 mi) of local roads



# SAN EMIDIO



The San Emidio Lithium Project's geologic setting, combined with the presence of lithium in both active geothermal fluids and surface salts within the San Emidio Property, match characteristics of lithium brine and clay deposits at Clayton Valley, Nevada - home to America's only current lithium production - and in South America.



- Geothermal fluids adjoining the claims are known to contain anomalous lithium values
- Recently completed sediment sampling showed up to 852 parts per million lithium (mean 365 ppm) while results from two 7-foot auger holes showed lithium concentrations up to 773 ppm
- Lithium in brine and clay potential of the playa has yet to be specifically studied
- Recent exploration results are highly encouraging and warrant a detailed exploration drilling for a Clayton Valley type brine and clay deposit



16 placer mining claims. ~259 hectares (640 acres)



60 miles (97 km) NE of Reno, Nevada, USA, the site of Tesla's lithium-ion battery "Gigafactory". San Emidio Desert



Option to earn undivided 80% interest (with 20% held by Lithium Corporation)





# TEELS MARSH WEST

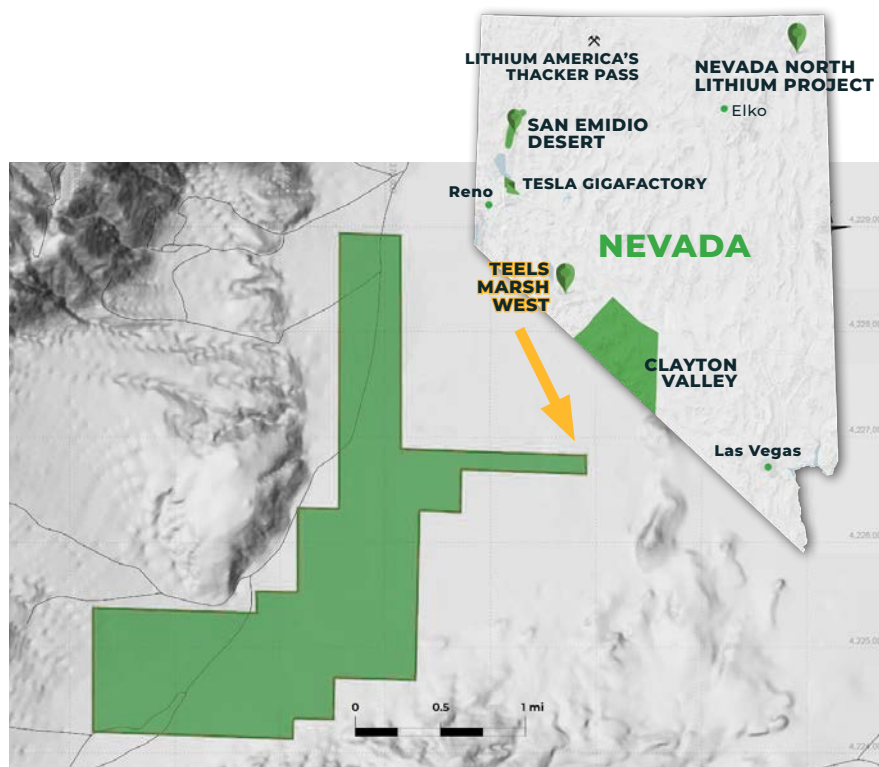
The Teels Marsh Lithium Project's geologic setting, combined with the presence of lithium in nearby active geothermal fluids and surface salts within the Property, match characteristics of lithium brine and clay deposits at Clayton Valley, Nevada –home to America's only current lithium production.

In 2016, shallow auger hole sampling resulted in lithium values ranging from 8.0 to 104.5 ppm

The two best sample results (93.2 and 104.5) were obtained downstream of thermal springs on the western part of the property

Lithium concentrations of up to 850 ppm have been reported from earlier sampling programs by the US Geological Survey (ORF: 76-567) at Teels Marsh

Detailed exploration program currently being planned for 2022



Adjacent to Daijin Lithium Corp.'s (TSXV: DJI) Teels Marsh project, where construction began in 2018 of engineered roads and drill pads in preparation for drilling 4 production sized exploration wells



Teels Marsh, Nevada



100% interest



100 placer claims. 809 hectares (2,000 acres)



Access via dirt road west of Hwy 95 & northwest of Hwy 360



# BRITISH COLUMBIA



British Columbia has the world's largest concentration of exploration companies and mining professionals for excellent reasons.



**Mining-Friendly Regulations**



**Stable Political Environment**



**Carbon Neutral Hydro Electricity**



**Eco-Friendly Rail Lines**

Close to most mining districts



**Top-Ranked Mining Jurisdiction**

Ranked 3rd best in the world by The Mining Journal (2017)



**Respect For Indigenous People**

Harmonious working relationship with & largest private sector employer of Indigenous people in Canada2

**BRITISH COLUMBIA**  
CANADA



**BRITISH COLUMBIA  
NICKEL PROJECT**

Prince George

Port Hardy

Kamloops

Kelowna

Vancouver

Victoria

0 25 50 mi



## Nickel Project:

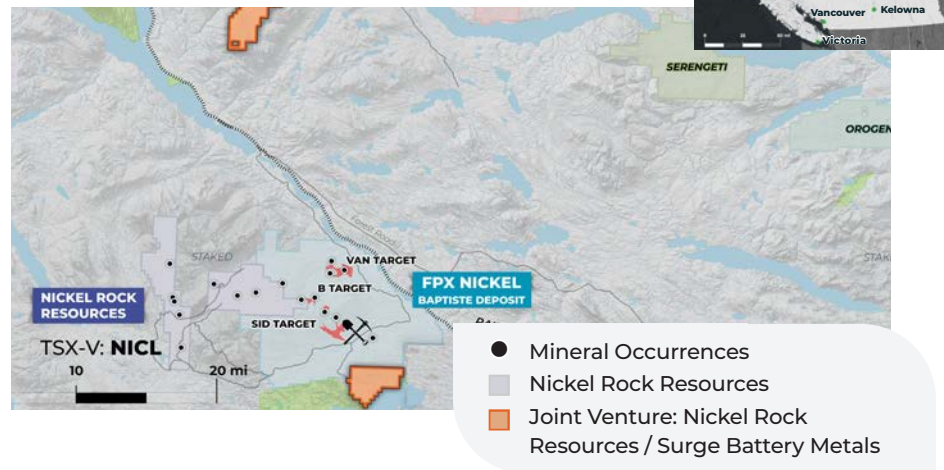
# BRITISH COLUMBIA

## NICKEL PROJECT



The BC Nickel project is comprised of the HN4 Nickel group and the N100 Nickel group. Both HN4 and N100 have confirmed elevated nickel values in soil and rock samples, and highly elevated magnesium content usually greater than 15%MG. HN4 is partially underlain by rocks like those hosting the Decar Project, in which FPX has invested ~\$25M to explore & develop to date.

The HN4 Claim Block's exploration targets are bordering or in close proximity to FPX Nickel Corp.'s Decar Project where their potentially carbon neutral Baptiste deposit has recently been confirmed as one of the world's most robust large-scale nickel projects. The N100 Group of claims has confirmed elevated values of nickel, cobalt and chromium in rocks and stream sediments, and documented presence of awaruite.



- Good access by paved and gravel roads & helicopter
- Hydroelectric power lines cross the region
- Inactive CNR rail line short distance to east [Hard Nickel] & BC Rail line ~12 km to south [Nickel 100]
- Work programs in 2021 and 2022 included prospecting, geological mapping, rock soil sampling and a 3 hole diamond drill program from which we await results.
- Exploration programs are awarded to Hardline Exploration of Smithers, BC.
- Surge Battery Metals filed a 43-101 Technical Report on Nov. 16, 2021
- Metallic mineralization includes nickel, cobalt and chromium
- Some nickel mineralization occurs as awaruite, a naturally occurring nickel-iron alloy first discovered in the area in 1983; awaruite is important in the manufacture of environmentally-friendly EV batteries
- Reports of exploration on and around the property are available dating back to 1974



Central BC, Canada



~100-130 km (~62-81 miles) NW of Fort St. James



2% NSR (3 claims -HN4 claim & the 2 southernmost claims of the N100 claims)



Option to earn 80% (with 20% held by Nickel Rock Resources)



2 claim blocks consisting of 6 mineral claims in the Mount Sidney Williams area (HN4) covering 1,863 hectares



# SHARE STRUCTURE & PERFORMANCE



## Share Structure

Issued & Outstanding: **117,074,272**

Options Outstanding: **10,773,000**

Warrants Outstanding: **28,571,074**

Fully Diluted: **156,418,346**

**\$23.09M**

Market Cap

**\$0.27**

Price as of 27-04-23

**\$0.46**

52-Week High

**\$0.04**

52-Week Low

**1,546,244**

Average Volume



Transfer Agent

**Odyssey Trust Company**

835-409 Granville Street Vancouver BC,  
Canada, V6C 1T2



Auditor

**DMCL Chartered Professional Accountants**

Suite 2700-650 West Georgia Street  
Vancouver BC, Canada V6B 4N9



Legal

**Christopher Dewick Farber**

**BA LLB (JD) MBA CMS**

Suite 106-1399 Barclay Street  
Vancouver, BC V6E 1H6

# BRIGHT FUTURE FOR BATTERY METALS



## BloombergNEF

“General Motors digs into mining business to lead race for EV metals”



## REUTERS®

“Albermale expects 40% Chinese EV market growth to drive lithium demand”

## BloombergNEF

“Piedmont Lithium, LG Chem sign equity investment and off-take agreements”

## CleanTechnica

“EV Revolution Activated: GM Puts \$650 Million Into Securing its Lithium Supply.”



# SURGE

## BATTERY METALS

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