# **EXPLORING AND** LITHIUM **DEVELOPING THE** CHILE **LITHIUM TRIANGLE** TSX-V: LITH OTCQB: LTMCF

**May 2023** 

LITHIUM CHILE HAS OWNERSHIP IN THE LARGEST HIGH-GRADE LITHIUM RESERVES IN THE WORLD COMPRISING OF 111,978 HECTARES IN CHILE AND 20,800 HECTARES IN ARGENTINA.

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#### FORWARD-LOOKING STATEMENTS

Statements included in this presentation that do not relate to present or historical conditions are "forward-looking statements". Forward-looking statements are projections in respect of future events or the future financial performance of Lithium Chile. In some cases, you can identify forward-looking statements by terminology such as "may", "should", "intend", "expect", "plan", "anticipate", "believe", "estimate", "predict", "potential", or "continue", or the negative of these terms or other comparable terminology.

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1. General economic conditions and market uncertainty, including business competition;

- 2. Changes in laws and regulations;
- 3. General political and social uncertainties;
- 4. The viability and marketability of Lithium Chile's mining operations.
- 5. The Company's failure to successfully implement its marketing plan;
- 6. The development of superior technology by the Company's competitors;
- 7. Risks and uncertainties associated with the Company's ability to raise additional capital;

8. Risks associated with the failure to retain and attract key management and personnel.

- 9. Other factors beyond the Company's control; and
- 10. Other risk factors detailed in Lithium Chile's reports filed on SEDAR and available at www.sedar.com.









# **COMPANY OVERVIEW**



TSX -V : LITH | OTCOB : LTMCF

- Lithium Chile has one of the largest land portfolios in the junior mining sector with properties on 13 salars, totaling over 130,000 hectares.
- ------ Ownership in a total of **111,978** hectares of lithium rich land in **Chile**.
- ------ Control of **20,800** hectares in the 'white gold rush' Salta province in **Argentina**.
- **2,587,000** tonne Lithium Carbonate Equivalent Resource from two wells in Argentina.
- The Phase Two **Exploration & Development Program in Argentina** on-going with the third production well and fifth & sixth exploration hole currently underway.
- An **Exploration Program in Chile** on three key properties, each with historical results showing high grade lithium, beginning in the second quarter of 2023.
- Significant cash position with an experienced Management & Operational Team.

# **PROPERTY LOCATIONS**

PROJECT NAME	AREA	TYPE/AREA	HECTARES
Aguilar	Chile	Lithium	1,078
Aquas Caliente	Chile	Lithium	2,500
Atacama	Chile	Lithium	6,000
Coipasa	Chile	Lithium	11,300
Helados	Chile	Lithium	25,100
Laguna Blanca	Chile	Lithium	14,700
Llamara	Chile	Lithium	35,500
Los Morros	Chile	Lithium	1,700
Mariposas	Chile	Lithium	1,200
Rio Salado	Chile	Lithium	2,900
Talar	Chile	Lithium	1,500
Turi	Chile	Lithium	8,500
Arizaro	Argentina	Lithium	20,800
Apolo	Chile	Gold,Silver,Copper	2,529
Carmona	Chile	Gold,Silver,Copper	7,500
La Fontuna	Chile	Gold,Silver,Copper	7,700
Sancarron	Chile	Gold,Silver,Copper	2,700
TOTALS			153,207



# **LITHIUM COMPANIES – CONSOLIDATION AND RACE FOR ASSETS**



Lithium M&A Activity has seen an astonishing acceleration in 2021 /2022...

- April 2021: Lithium miners Galaxy Resources and Orocobre announced a US\$3.1bn merger
- August 2021: Bacanora Lithium agreed to cash offer of £284.8m from Ganfeng Lithium
- September 2021: Sibanya Stillwater buy half of ioneer's lithium project in US\$490m deal
- November 2021: In a bidding war, Lithium America acquired Millennial Lithium for \$4.70/share
- December 2021: Rio Tinto buys Argentina lithium mine for \$825m from private equity buyers
- January 2022: Neo Lithium completes acquisition with Chinese state-owned firm, Zijin Mining Group LTD \$6.50/share
- May 2022: Chengxin Lithium Group invested over \$34m into Lithium Chile Inc.
- August 2022: China's Ganfeng Lithium offers \$962m to buy Lithea Inc Assets in Salta Province
- ----- December 2022: Lithium America acquires Arena Minerals for US\$227 million.

**ARIZARO, ARGENTINA PROJECT** 





The Project is located in the Arizaro Salar located in the Salta province of northwest Argentina.



Lithium Chile controls 20,800 ha of legal concessions located mainly in the central part of the salar which is strategically located close to the best water supply area.

# **ARGENTINA - ARIZARO PROJECT**



- Logged on October 19 and 20, 2021, in the Arizaro salt flat.
- In the first 300 m of the well, the presence of compacted halite can be observed. However, there are thin levels where the halite is mixed with sand.
- Below 302 m there is a clastic section that increases in depth where two domains can be distinguished:
- Between 302 380 m the section contains lower sand content with the presence of frequent halite layers;
- From 385 m onwards, the section has a higher sandy domain and no halite.



# **ARIZARO PROJECT – ARGENTO 1**

- Argento-1 reached a depth of 470 meters below land surface (bls).
- Hydra-sleeve samples yielded values up to 446 mg/l of Li. Using the inflatable packer system, lithium samples returned values up to 555 mg/ls.
- Dilutions caused by mesh casing during pump testing resulted in an average of 298 mg/lt of Li used in the resources calculation.
- On its first well, an initial resource estimate totaled
  1,420,000 tonnes of lithium carbonate equivalent
  consisting of 895,000 tonnes of Indicated and 535,000
  tonnes of Inferred lithium carbonate equivalent (LCE).



# **ARIZARO PROJECT – PHASE TWO PROJECT**

Lithium Chile commenced its **Phase Two Program** in June 2022 with the goal of establishing a measured resource and increasing the lithium carbonate equivalent grade on the Salar de Arizaro.

### Phase Two Program Highlights include:

- Size Five to seven Exploration holes (Diamond Drill Rig)
- Sour to five **Production holes** (Rotary Rig)
- One fresh-water well
- Metallurgical Studies
- An updated 43-101 report after each production hole.
- A **preliminary Economic Assessment** (PEA); analysis of the potential viability of the mineral resources.



Drill Rig on the Salar Arizaro

# **ARIZARO PROJECT – ARGENTO 2**

### **Production Hole Highlights:**

Argento-2, has been completed and drilled to a total depth of **649 metres.** 

- Argento-2 encountered the target brine aquifer between 343 metres and 598 metres.
- The aquifer on Argento-02 was **255 metres thick**, or 123 metres thicker than the Company's initial Argento-1 discovery.
- Samples taken between 360 metres to 450 metres on Argento-2 returned assays results as high as **350 mg/l** lithium.
- Total Indicated and Inferred resource from second well is **1,167,000 metric tonnes** of lithium carbonate equivalent.



Rotary Drill Rig on the Salar Arizaro

### **ARIZARO PROJECT: 43-101 Report**

- Total Indicated and Inferred resource from Argento-1 is **1,420,000** metric tonnes of lithium carbonate equivalent
- Total Indicated and Inferred resource from Argento-2 is **1,167,000** metric tonnes of lithium carbonate equivalent.
- Total Indicated resource from the first two wells is 1,337,000 metric tonnes and Inferred resource is 1,250,000 metric tonnes for a total of **2,587,000** metric tonnes of LCE.

RESOURCE CATEGORY	BRINE VOLUME (m3)	AVG. Li (mg/l)	IN SITU Li (tonnes)	Li2CO3 EQUIVALENT (tonnes)	
INDICATED	8.83E+08	284	251,000	1,337,000	
INFERRED	7.59E+08	310	235,000	1,250,000	1164

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# **ARIZARO PROJECT – ARGENTO 3**

- The third production well, **Argento-3**, began drilling January 9, 2023, and has been completed to a depth of 577-metres.
- Brine mineralization potential has been established from depths of 350 to 470-metres.
- Results are consistent with the brine mineralization in the Company's first two production wells.
- Argento-03 is currently being widened to allow for the installation of casing and liners.
- Once widened, a pump test will be performed which is anticipated to be completed by the end of April. Pump testing results will be released when received.



Drilling on the Salar de Arizaro

# **ARIZARO PROJECT – WATER WELL**



Water is critical to produce lithium carbonate whether using traditional evaporation methods or new direct lithium extraction (DLE) technologies.

- The Company's first water well, CHASCHA SUR-01, has been drilled, completed, and cased on the southern border of the Salar de Arizaro.
- Data from the well was submitted to the Salta Provincial Water Ministry in support of a future application to use a percentage of the water for a **lithium carbonate production plant of 15,000 tons** per year and to be used in camp for approximately eighty people .
- The requested flow corresponds to 70 m3/h, with 24 hours of pumping, resulting in a daily flow of 1680 m3.



Water Well on the Salar de Arizaro

# **ARIZARO PROJECT – METALLURGICAL STUDIES**



- **2,000 litres of brine** collected from the first production well.
- Tests include advanced chemistry studies at the Company's lab in Jujuy Province to determine best production processes for lithium extraction, conducting evaporation tests to determine concentrations that will yield optimum recovery of lithium.
- **Evaporation tests will also allow for the precipitation of impurities associated with these brines.**
- Test work is underway for Direct Lithium Extraction (DLE) a technology that can reduce production time, increase recovery rates, eliminate large evaporation ponds and reduce the environmental footprint.
- Brine was delivered to Chengxin's DLE facility in China for production tests as well as Summit Nanotech in Calgary, Alberta for analysis.



Evaporation tests using the Company's brines

# **ARIZARO PROJECT – ON THE GROUND**



- The Company's camp on the Salar de Arizaro accommodates 50 employees as a result of significantly expanded operations.
- The camp is complete with a kitchen, dining room and health & safety modules.
- The on-site camp allows for non-stop operations and significantly reduces the Company's travel costs.
- The Company has passed three separate inspections and has been commended for the care and attention used in minimizing the impact on the environment.
- Mitigating the impact mining operations has on the environment is a key component of maintaining our privilege to operate.



Onsite Camp on the Salar de Arizaro



**Onsite Waste Separation** 

### **2023 CHILEAN PROJECTS**

LLAMARA A **35,500-hectare** property with historic drill results showing lithium grades up to 343 mg/l. Currently completing a 74-kilometer TEM geophysical program over the new claims to define the highly conductive target on the Salar de Llamara. Conditional on the TEM results, a **three to five well, exploration drill program** is planned in the second half of 2023.

LOS Morros A 1,700-hectare property covers about 30% of the Los Morros Salar. Recent brine sampling shows lithium grades of up to **700mg/l** with a low magnesium impurity. A **1,500-meter drill program** has been planned following the program at Llamara.



### **2023 CHILEAN PROJECTS**

AQUAS CALIENTES Detailed surface brine, sediment and rock sampling will begin in January on this 2,500-hectare property. Prior government sampling returned lithium values of up to **380 mg/l** from surface brine pools. Existing permits on part of the claims for borax mining will benefit the Company's overall permitting process.

**COIPASSA** 11,300-hectare property on the Andean Salar Belt on the border of Northern Chile and Bolivia. Near-surface brine samples assaying **up to 1410 mg/l.** Grades comparable to production grades at the SQM and Albemarle's Salar de Atacama production plants. Negotiating access rights with the indigenous community of Ancovinto is a priority for LITH in 2023.

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### **JOINT VENTURES - CHILE**



*Joint Ventures are consistent with the Company's goal to maximize the return of the Chilean assets while focusing on developing the Arizaro project through the Phase Two Program.* 

#### LAGUNA BLANCA – 14,700 hectares

Joint Venture with Monumental Minerals Corp. for an option to acquire up to 75% Cash Payments of \$1.5M over 3 years, Project Expenditures of \$1.5M over 3 years, 9.9% Ownership in Monumental (payment shares)

#### TURI - 8,500 hectares

Joint Venture with Monumental Minerals Corp. for an option to acquire up to 50.01% Cash Payments of \$700K over 2 years, Project Expenditures of \$1.4M over 2 years, Retention of 9.9% ownership in Monumental (payment shares) following the next Monumental financing

#### LAS GARILLAS – 1,900 hectares

Joint Venture with Volos Minerals Inc. for an option to acquire up to 51% Cash Payments of \$100K over 2 years, Project Expenditures of \$250K over 2 years, Ownership in Volos (payment shares) = 9.9% upon listing, additional 9.9% after 1 year

# FINANCIALS AND SHARE STRUCTURE



Share Price (Six Months)	\$0.54 - \$1.13
Market Capitalization	\$106M - \$221M
Cash Balance (December 2022)	\$39,000,000
Marketable Securities	\$1,900,000
Debt	\$0
Shares: Issued and Outstanding	196,685,347
Unexercised Warrants	5,774,279
Options & RSU's Granted	7,000,000
Fully Diluted	214,159,626
Insider & Key Stakeholder Ownership	43%

# RECOGNITION



Lithium Chile was awarded "**Best Lithium Company of the Year**" at the 2022 International Mines and Money Event in London.



### **MANAGEMENT TEAM**



#### STEVE COCHRANE PRESIDENT & CEO

Mr. Cochrane has 36 years of investment industry experience during which he has been instrumental in raising in excess of \$500m for "small cap" public companies. Mr. Cochrane's extensive capital market experience will be an invaluable asset as Lithium Chile continues with the roll-out and expansion of its lithium strategy. CAPITAL MARKETS/OPERATIONS



#### MICHELLE DECECCO VICE PRESIDENT & COO

Ms. DeCecco brings deep capital markets, investor relations, and corporate development experience to Lithium Chile, with over 20 years in the public mining sector. Expertise in developing and executing corporate strategies including acquisitions, JV's and strategic partnerships. Michelle holds a Masters Degree in Business. CAPITAL MARKETS/CORPORATE DEVELOPMENT



#### JOSÉ DE CASTRO ALEM MANAGER OF LITHIUM OPERATIONS

Chemical Engineer with deep experience in international mining operations and commercial management. Specializing in process engineering, mining, and resources management operations. Jose has held key operations & executive positions in mining orgs. in Argentina & Chile. LITHIUM EXPLORATION & DEVELOPMENT



#### TERRY WALKER VP EXPLORATION & CHIEF GEOLOGIST

Terry Walker, M.Sc., P.Geo. is a highly experienced exploration geologist and technical team leader. He has spent over 27 years in Chile's mining industry, with a particular focus on lithium, and is well connected throughout the sector. Terry is the co-founder of GeoServicios Piedra Dorada – an exploration and development services company. LITHIUM EXPLORATION & DEVELOPMENT



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