



First Lithium Minerals Corp.

LITHIUM AND ALKALI METALS EXPLORATION AND DEVELOPMENT COMPANY

CSE:FLM | OTC:FLMCF | FSE:X28

September 2025

Disclaimer

Cautionary Statements

Information set forth in this presentation contains forward-looking statements that are based on assumptions as of the date of this presentation. These statements reflect management's current estimates, beliefs, intentions and expectations. They are not guarantees of future performance. Words such as "expects", "anticipates", "targets", "goals", "projects", "intends", "plans", "believes", "seeks", "estimates", "continues", "may", variations of such words, and similar expressions and references to future periods, are intended to identify such forward-looking statements. First Lithium Minerals Corp. ("First Lithium" or the "Company") cautions that all forward-looking statements are inherently uncertain, and that actual performance may be affected by a number of material factors, many of which are beyond First Lithium's control. Such factors include, among other things: risks and uncertainties relating to metal prices, changes in planned work resulting from weather, logistical, technical or other factors, the possibility that results of work will not fulfill expectations and realize the perceived potential of First Lithium's mineral properties, uncertainties involved in the interpretation of drilling results and other tests, the possibility that required permits may not be obtained in a timely manner or at all, risk of accidents, equipment breakdowns or other unanticipated difficulties or interruptions, the possibility of cost overruns or unanticipated expenses in work programs, the risk of environmental contamination or damage resulting from the exploration operations, the need to comply with environmental and governmental regulations and the lack of availability of necessary capital, which may not be available to First Lithium on terms acceptable to it, or at all. First Lithium is subject to the specific risks inherent in the mining business as well as general economic and business conditions. Accordingly, actual and future events, conditions and results may differ materially from the estimates, beliefs, intentions and expectations expressed or implied in the forward-looking information. Except as required under applicable securities legislation, First Lithium undertakes no obligation to publicly update or revise forward-looking information. First Lithium does not intend, and does not assume any obligation, to update these forward-looking statements, except as required under applicable securities legislation.

The Corporate Presentation contains information which was accurate at the time of posting but may be superseded by subsequent disclosures.

For more information on First Lithium, readers should refer to First Lithium's website at www.firstlithium.ca.

Historical Results – This presentation contains historical exploration results. The Company has not verified historical results, unless stated otherwise, and there is a risk that any future confirmation work and exploration may produce results that substantially differ from the historical results. The Company considers these historical results relevant to assess the mineralization and economic potential of the properties.

Qualified Person

The content of this presentation has been reviewed and approved by Aldo Moreno Salinas, the Qualified Person, as defined by National Instrument 43-101. Mr. Moreno is a Public Registered Person for Reserves and Resources N° 328 in Chile and is also registered in the Colegio de Geólogos de Chile under N° 437.

First Lithium Minerals Corp. (CSE: FLM | OTC: FLMCF | FSE: X28) is a Canadian lithium and alkali metals exploration and development company with the brine project in northern Chile and gold/LCT prospect in northwestern Ontario, Canada.

Salar de Ascotan Project: 1,800 ha of exploration concessions, 100% ownership, no royalties. Hydrogeologic setting of the Andean plateau ("lithium triangle")

Excellent infrastructure:

- Powerlines, geothermal powerplant - 70km
- Major continental railroad (The Ferrocarril de Antofagasta a Bolivia) and highway - onsite
- Major export seaport Tocopilla - 350km
- City of Calama, major copper mines in the area- 150km

Successful completion of property-wide TEM geophysical surveys 47 line-km. Geophysical anomalies and highly conductive zones up to 400m from Magneto Telluric (MT) geophysical survey

Advancing to inaugural exploration and resource drilling program in H2/2025.

Environmental Approval from Environmental Evaluation Service of Chile (SEA) and signed Cooperation Agreement with The Cebollar-Ascotan Indigenous Community

Lidstone gold / LCT pegmatite prospect in northwestern Ontario, Canada.

- Gold mineralization potential, quartz vein assayed 0.272 g/t Au (March 2025)
- 17,600 ha mining claims, 100% ownership, no royalties



Corporate Profile

CSE: FLM

Shares outstanding 95.4 million

Share price \$0.055

Market capitalization (Sep. 10, 2025) \$5.25MM

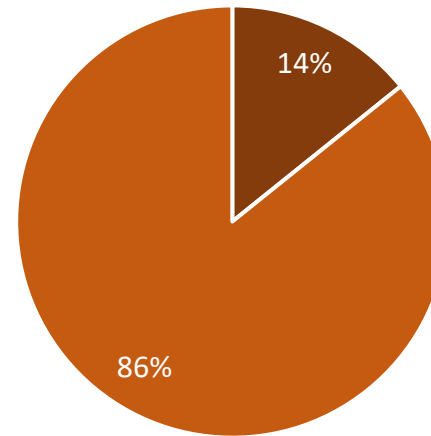
Cash (Q2/25) \$1.4 MM

No Debt

No warrants

Options 4,350,000 @ \$0.08 expiry Dec. 20, 2028

Shareholder Ownership



■ Mgmt & Board ■ Retail & Individual Investors



Rob Saltsman | President, CEO and Director

Mr. Saltsman has 25 years of experience in venture capital and public investments and is the Founder of First Lithium Minerals Corp., a company he founded in 2017. He served as the CEO of Compel Capital Inc. and RMM Ventures Inc., and as Vice President of Georgian Capital Corp. where he focused on investing and consulting services in private equity. He is currently a President and Managing Partner of Paige Capital Inc., a venture capital investment company, and is a founding partner of South America Finance Corp SAS, a private merchant banking group in Colombia.

Claude Ayache | CFO

Mr. Ayache is a bilingual CPA, CMA with over 35 years of experience, more than half of which was served at the CFO/CEO level of publicly reporting companies in Canada and the US. He has also served on the board of several private companies and non-profit organizations.

Aldo Moreno | VP Exploration

Mr. Moreno is a seasoned geologist with 40 years of experience in exploration and evaluation of metallic and non-metallic mineral deposits and worked with several mining projects in Chile, Argentina, Bolivia, Peru, Ecuador, Brazil, Colombia, Venezuela, Cuba, Honduras, Mexico, and the United States. Mr. Moreno has a degree in geology from Universidad de Chile, is a member of the Chilean Professional Association of Geologists No. 437 and registered in the Public Records of Competent Persons No. 328.

Peter Espig | Director

Mr. Espig has been the President and CEO of Nicola Mining Inc. since 2013. The former Goldman Sachs banker and Olympus Capital Partners executive founded TriAsia Capital, a private equity and consulting firm focused on raising capital for mid-sized companies and pre-initial public offering investment in 2006. Mr. Espig is a founding director of Promontory Therapeutics, a private biopharmaceutical company, and has been a board member since November 2010. He is an independent director of Element 29 (TSX.V: ECU) and is an independent director of NAVCO Pharmaceuticals Inc. (formerly, BMGB Capital Corp.) (TSXV). Mr. Espig is a pioneer of SPACs, having completed two mega transactions with a combined value of greater than US\$1.0 BN and served as a board member of Star Bulk Carriers (NASDAQ: SBLK) from 2006 to 2013. Mr. Espig received his MBA from Colombia Business School, where he was a Chazen International Scholar.

Ernest Mast | Director

Mr. Mast is the former President & CEO of Primero Mining Corp. and Minera Panama S.A., a subsidiary of Inmet Mining Corp., which was subsequently acquired by First Quantum Minerals for \$5.1 B. He received an MBA from Universidad Catolice de Chile and holds a Master's degree in Mining & Metallurgical Engineering. He is fluent in Spanish and worked as a Technical Director of Noranda Chile's operation and Lomas Bayas Copper Mine.

Management and Board

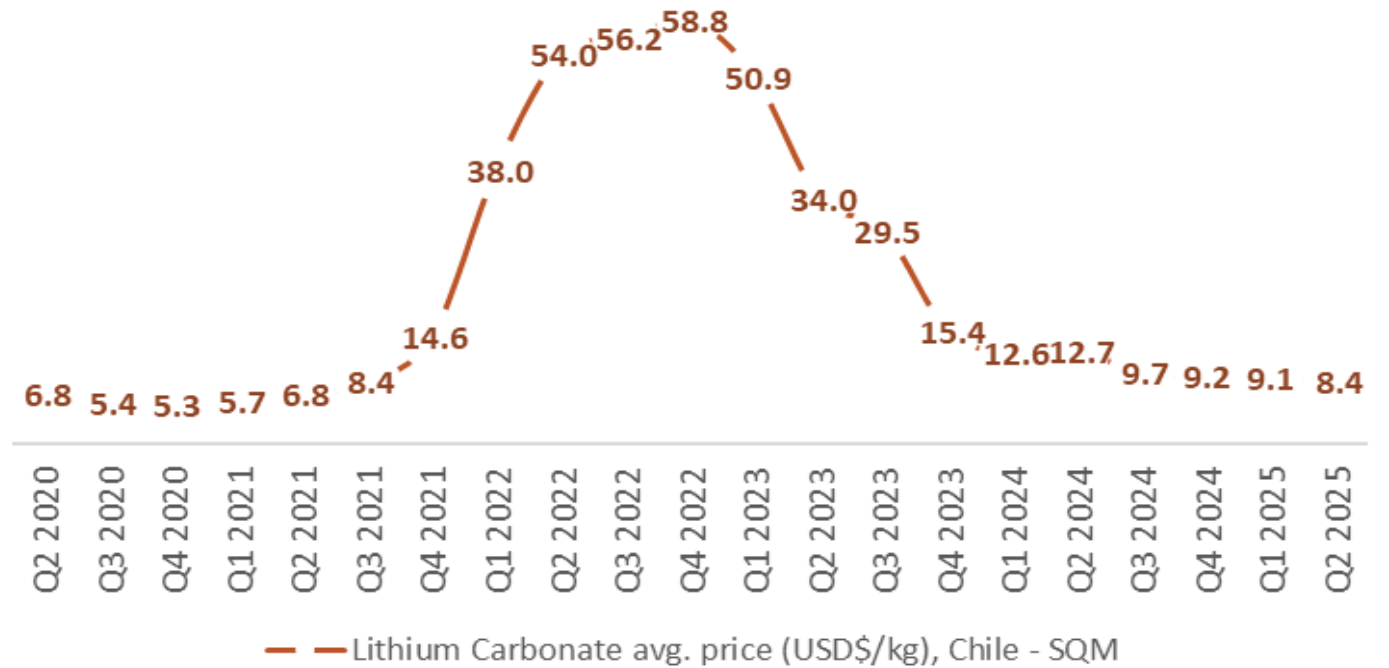
Lithium Price

Slower global EV sales resulted in suppressed lithium demand in 2025

LC prices remain at approx. \$9/kg in YTD 2025

Lithium demand is expected to sustain long-term upper price momentum as supply is not expected to catch up in the long-term

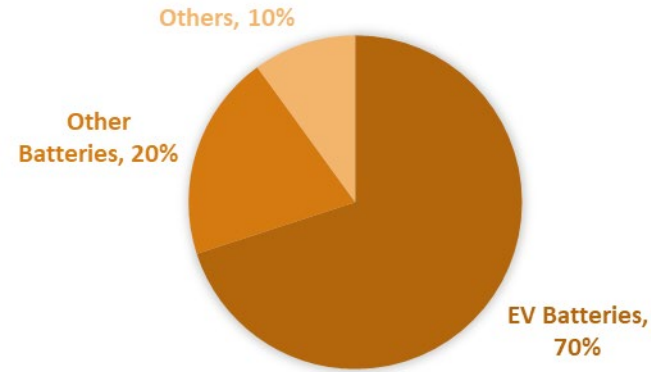
While off the multi-year highs, Chile lithium carbonate producer contract prices remain supportive and economically attractive for brine producers



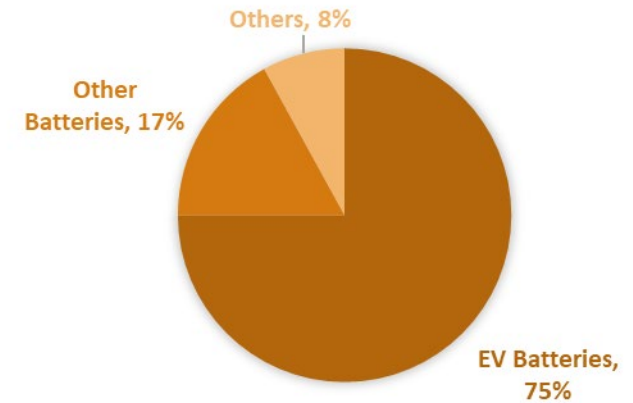
Lithium Demand

Lithium demand is expected to continue be driven by EV, consumer electronics, grid, and mobility

LITHIUM CHEMICAL DEMAND (2025)
~1,300 KMT LCE



LITHIUM CHEMICAL DEMAND (2030E)
~2,800 KMT



Lithium Supply

Global lithium production ~ 1.3 million tpy LCE

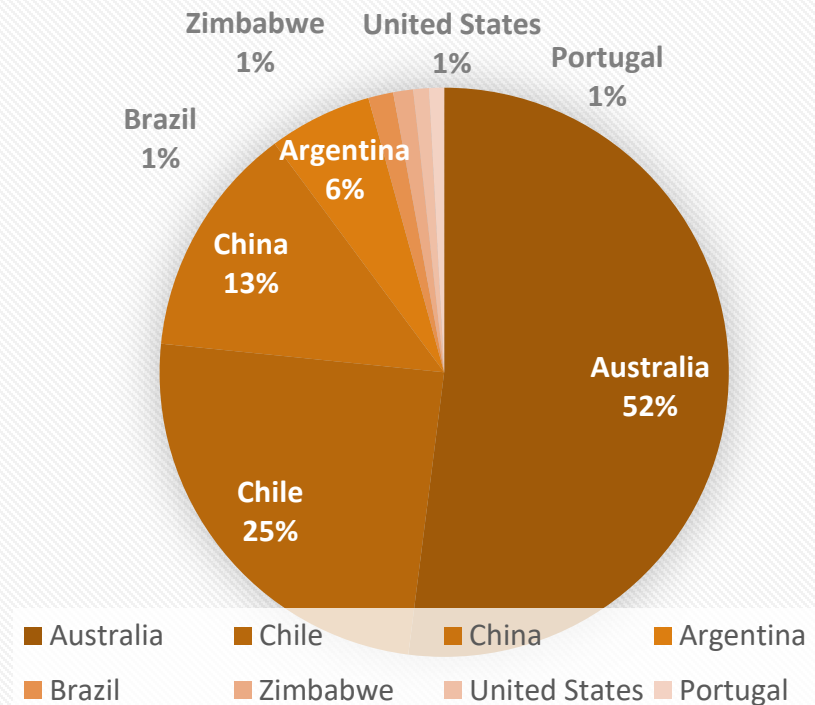
Inelastic nature of supply

Long time to bring new capacity online

The excess in lithium capacity is expected to continue in 2025

Widening supply-demand gap by 2030

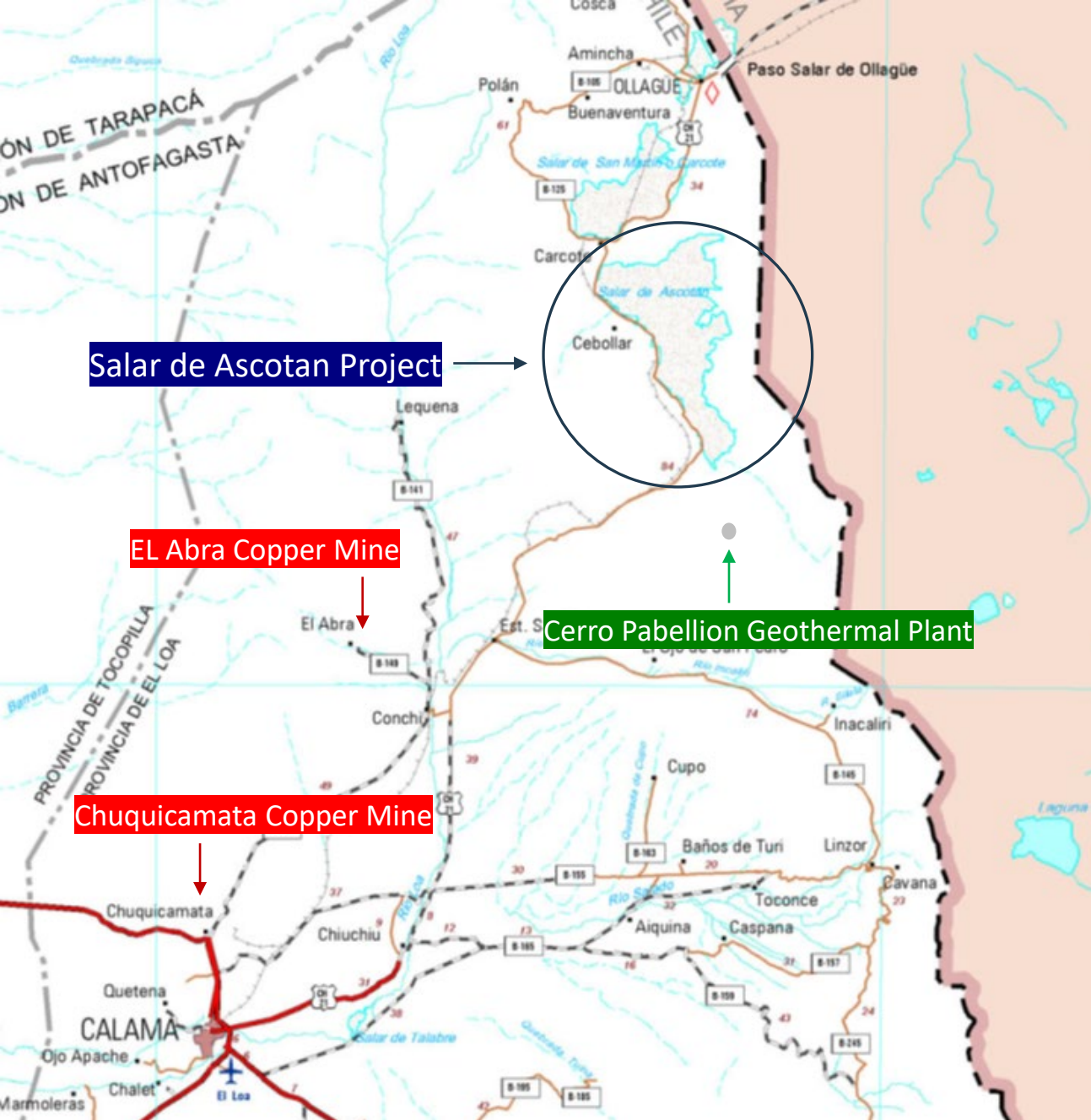
Share of lithium minerals and brine production LCE tpy (%)





Salar de Ascotan Project

Project Location and Infrastructure

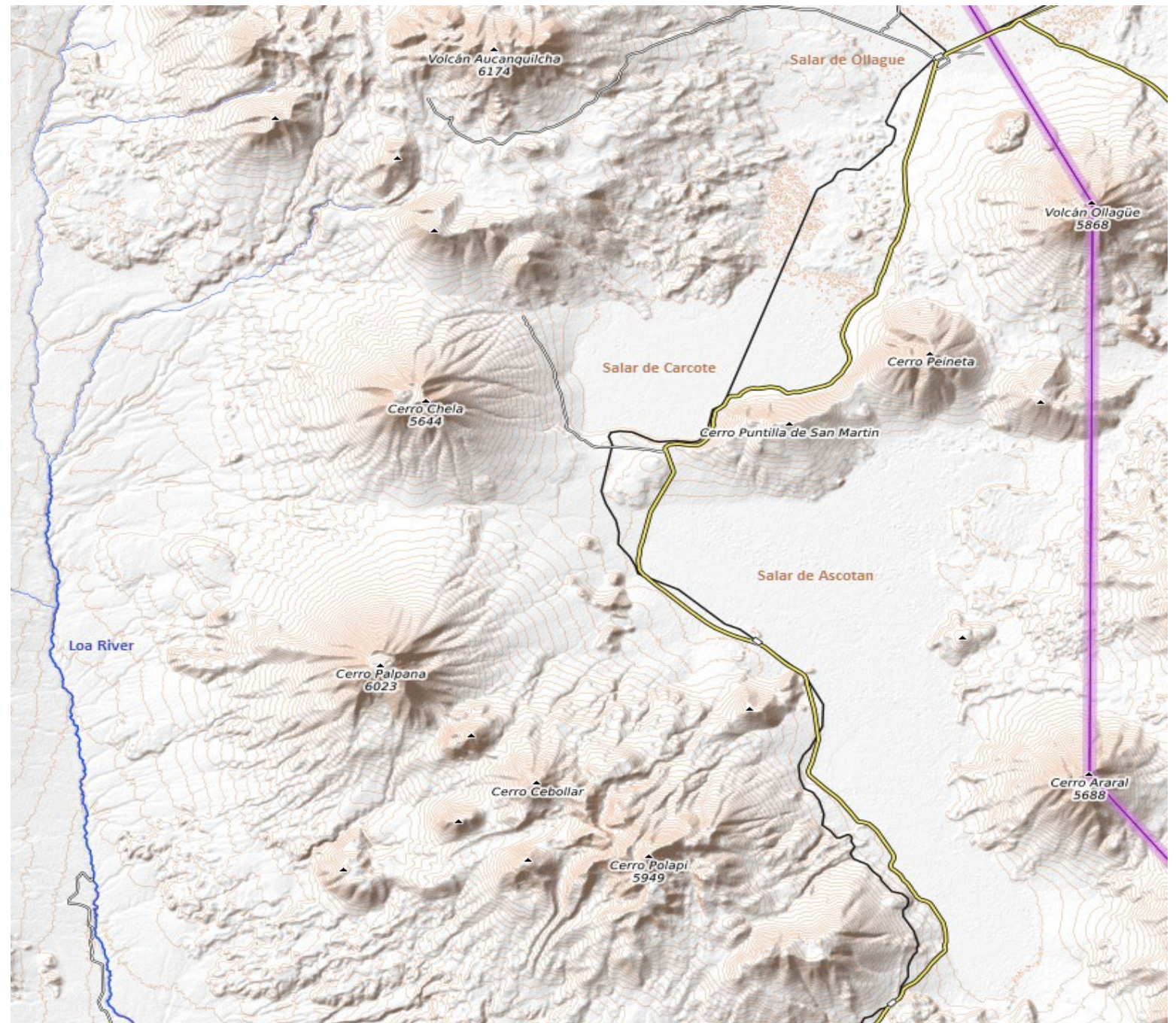


- The mineral exploration concessions that form the OCA Salar de Ascotan Project located in the Salar de Ascotan, within the hydrogeologic settings of the Andean plateau bordering Bolivia
- The OCA Salar de Ascotan Project is accessed from the town of Calama, Chile via Highway 21, 150 km
- The town of Ollague is at an elevation of 3,700 meters above sea level and is the closest to the OCA Salar de Ascotan Project
- The railway (The Ferrocarril de Antofagasta a Bolivia, "FCAB") that passes through Ollague forms the major transportation corridor between the port city of Antofagasta, Chile and the capital city of Bolivia, La Paz
- Historically, primary traffic on the railway has been minerals such as lead-zinc concentrates, nitrates, and copper
- Cerro Pabellon Geothermal Power Plant located approximately 70km south of the project
- Multiple operating copper mines in the area

Topography of the Salar de Ascotan

The salar basin is bordered on the north by the Salar de Carcote basin, on the east by volcanic chains bordering Bolivia

To the south, the basin is bordered by the San Pedro de Inacaliri River basin, while to the west the basin is cut-off by a volcanic chain summits from the drainage of the Upper Loa River



Salar de Ascotan Exploration Target

Project Focus Area for
Resource Delineation

- 1,800 ha of exploration concessions that form the project focus area (eastern sector) for on-going exploration and potential resource delineation target

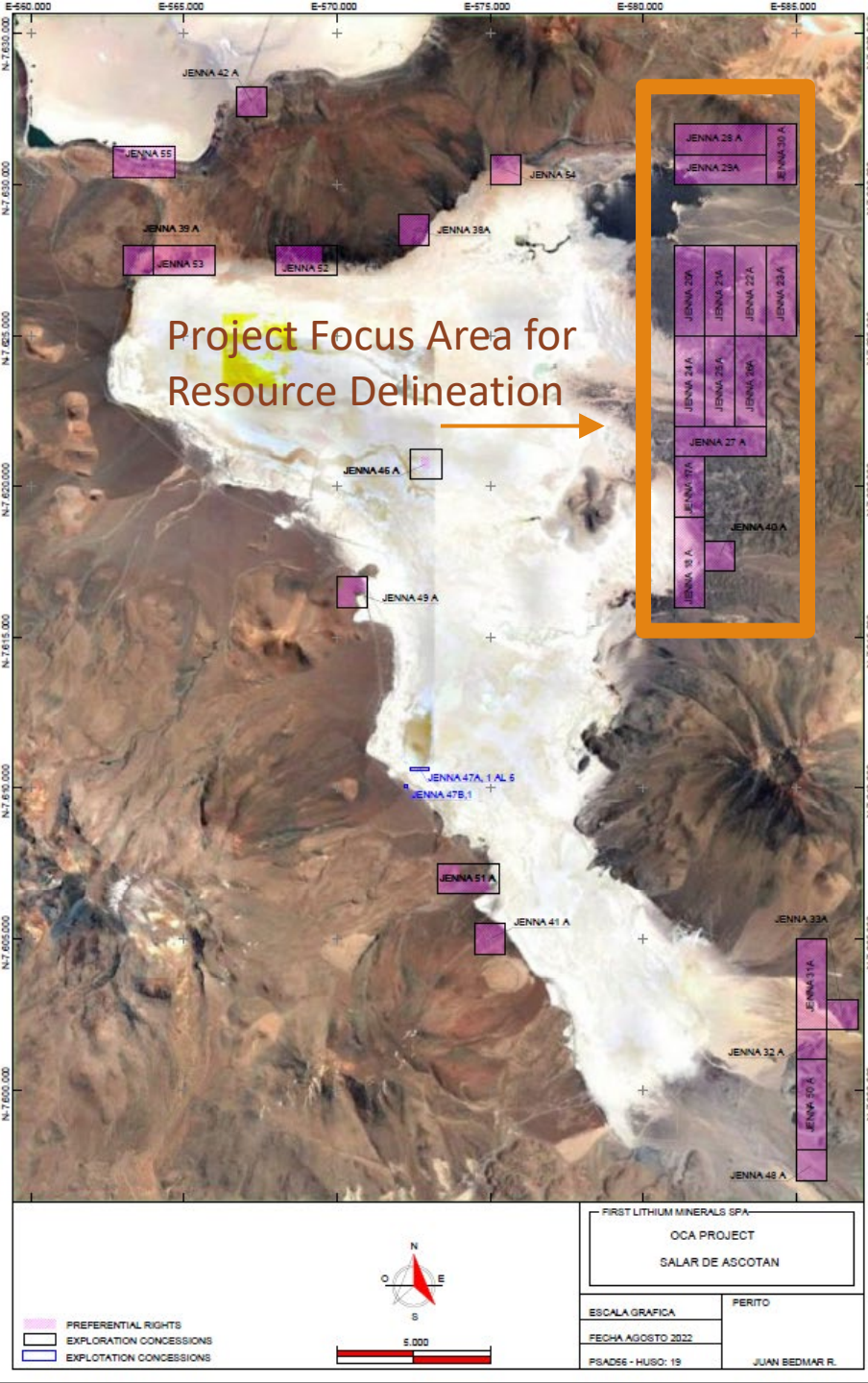
- The eastern flank is at the continental divide formed by the Andes: the Paruma de Portezuelo mountain (5,582 meters above sea level), the Ollagüe volcano (5,868 meters asl), the Ascotán mountain (5,187 meters asl) and the Toconce mountain (5,411 meters asl)

- Climate is arid, with average annual precipitation < 100 mm
- Little to no biodiversity in the targeted exploration sector

- Project altitude 3,716 msnm
- Desert environment
- Soft and hard saline crusts and clay playas

- Existing commercial production of borates on the western flank of the salar

Source: 43-101 Technical Reports on The OCA Prospect, Comuna De Ollague, Province of El Loa, Region of Antofagasta Chile (Nov 2019), Company Reports



Mineralization

Mineralization in the Salar de Ascotan Project is primarily represented by three different fractions:

- ❑ Liquid, represented mainly by chloride and sulfate brines
- ❑ Dendritic material, consisting of sand, silt and clay intercalated in the salar sediments
- ❑ Various precipitated salt compounds resulting from salts reaching respective solubility and concentration limits



Hydrogeology

Salar de Ascotan corresponds to a classic continental 'saline deposit' type or the Salar

Lithium (Li), potash (K), boron (B), sodium (Na) and magnesium (Mg), among others, are leached and transported from rocks in the catchment, and then accumulated and concentrated by evaporation in the Salars

Geology and hydrogeology extensively studied and investigated by SQM, Codelco and Chilean Geological Surveying

➤ Salar de Ascotan: 1,757 km² (basin area), 243 km² (surface area)

The Salar is a terminal lake with sediments intermixed with salt compounds, undersurface brine, and a surface crust composed primarily of gypsum and halite

Groundwater of the Salar show characteristics of a typical brine observable a few meters below the surface



Exploration Program

TEM and MT Geophysics

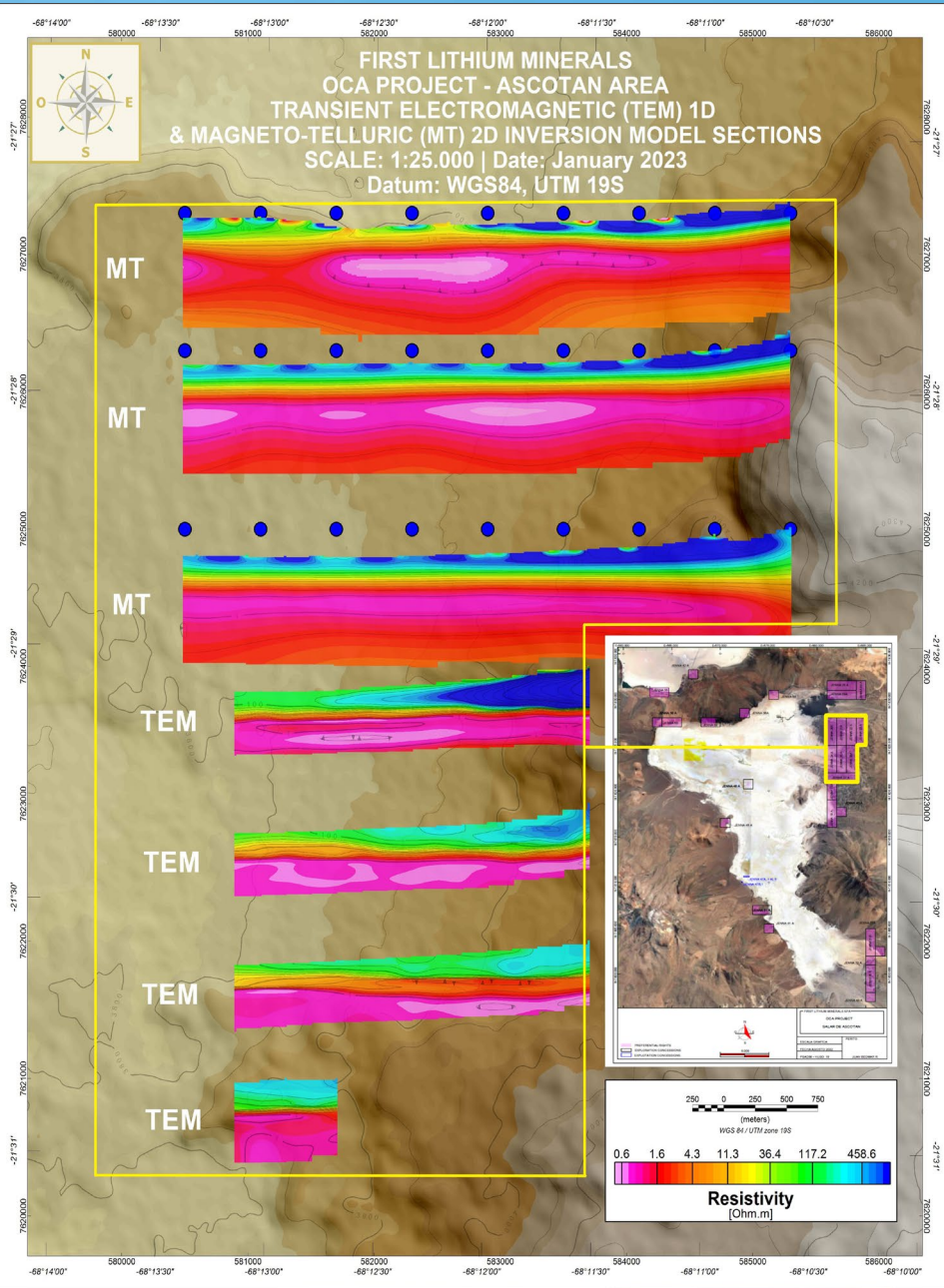
Completed extensive property-wide Transient Electromagnetic (TEM) geophysical surveys (December 2022)

TEM contiguously spaced stations along 28 profiles for a total of 47.8 line-km

Highly conductive zones across concessions up to 400m at less than 1.0 Ohm-m beneath the surface at 100-200m

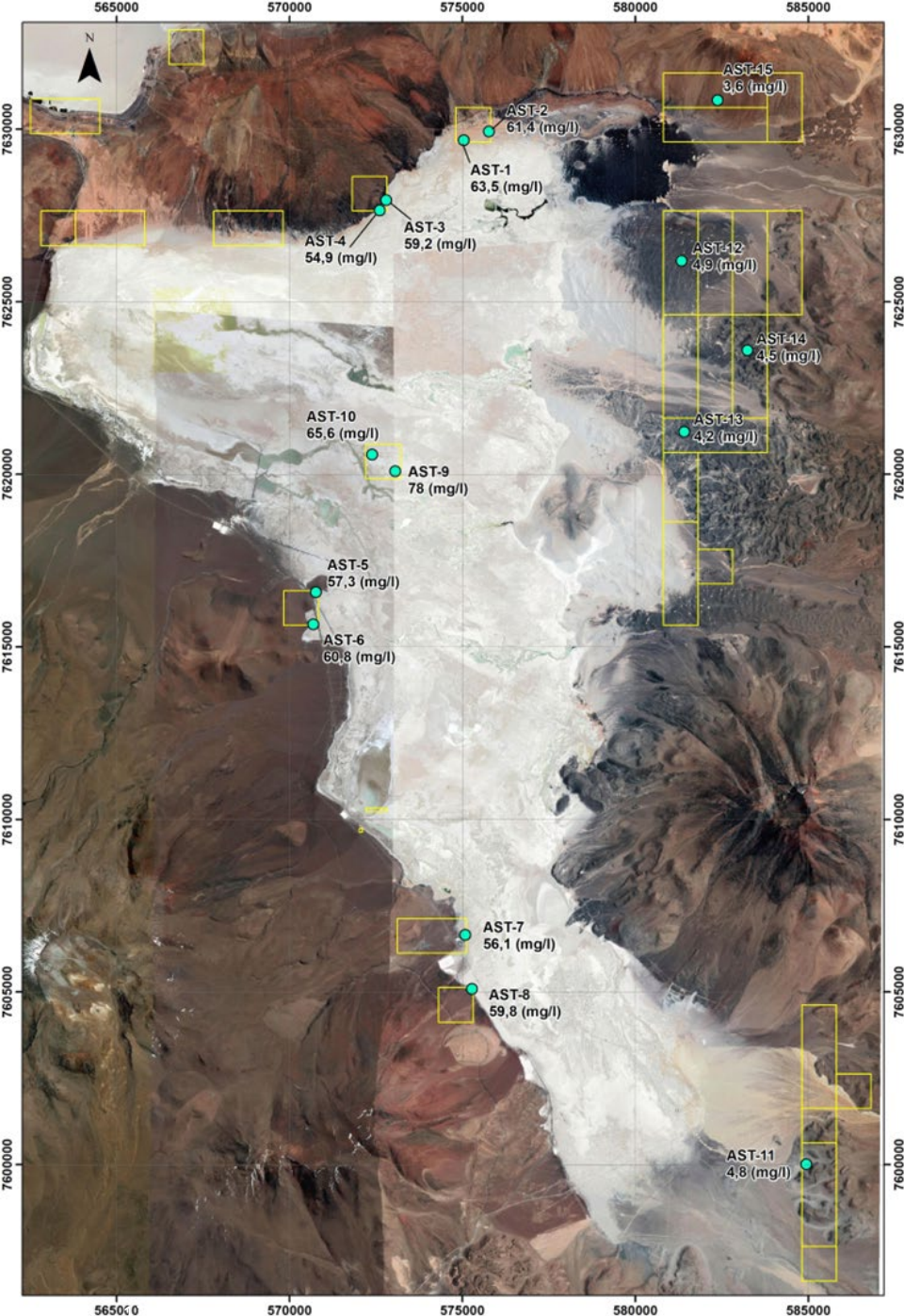
Defined target area with resistivity less than 0.2 Ohm-m at the Salar de Ascotan (approx. 1,775 ha)

Magneto-Telluric (MT) surveying identified pronounced geophysical anomalies and high conductivity up to 400m zones typically indicative of brine mineralization (March 2023)



Salar de Ascotan Surface Brine and Brackish Water Sample Locations

- Highs of 78 Li mg/l at surface brine and brackish water samples validate Salar de Ascotan as a strong exploration target and potential future resource
- Salar de Ascotan mineralization is expected to exhibit typical hydrogeological conditions of the salars in northern Chile where deeper brine enrichment is encountered at depth



BRINE SAMPLES MAP

Surface Brine and Brackish Water Sampling Program

15 brine and brackish water samples collected directly off the surface in the salar at depths of up to 0.3 meter and in the alluvium surrounding the salar surface

Assays of the complete sample set range from trace to 78 Li (mg/l), with the average of 42.6 Li (mg/l) and median of 57.3 Li (mg/l)

Number	Coordinates UTM		Element					
Sample	East	North	B	Ca	Li	K	Na	Mg
	(m)	(m)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
AST-1	575,042	7,629,681	169.3	1,901.9	63.5	1,445.0	15,148.6	999.7
AST-2	575,765	7,629,933	166.9	1,926.5	61.4	1,454.5	14,222.4	1,007.8
AST-3	572,797	7,627,938	162.4	1,908.8	59.2	1,440.2	15,047.0	1,001.3
AST-4	572,609	7,627,646	148.5	1,788.1	54.9	1,355.9	12,865.6	964.3
AST-5	570,767	7,616,586	155.2	1,975.7	57.3	1,482.1	15,818.2	1,022.7
AST-6	570,693	7,615,647	170.3	2,153.1	60.8	1,597.4	18,454.4	1,099.3
AST-7	575,087	7,606,651	158.8	2,014.9	56.1	1,503.3	15,418.0	1,036.0
AST-8	575,278	7,605,089	171.2	2,033.4	59.8	1,532.2	14,884.9	1,043.6
AST-9	573,064	7,620,083	225.8	2,465.9	78.0	1,832.6	17,668.6	1,237.8
AST-10	572,392	7,620,570	187.4	1,989.6	65.6	1,510.4	16,353.8	1,017.7
AST-11	584,941	7,600,005	143.4	86.5	4.8	102.5	2,488.2	31.1
AST-12	581,340	7,626,179	146.9	108.8	4.9	112.2	2,624.5	34.3
AST-13	581,416	7,621,226	125.0	83.8	4.2	93.4	2,197.9	28.0
AST-14	583,239	7,623,593	134.4	89.5	4.5	101.8	2,380.7	29.8
AST-15	582,382	7,630,840	107.4	56.4	3.6	79.1	1,862.7	22.7
Average			158.2	1,372.2	42.6	1,042.8	11,162.4	705.1
Median			158.8	1,908.8	57.3	1,445.0	14,884.9	1,001.3

Surface brine and brackish water samples. OCA Salar de Ascotan Project, August 2023

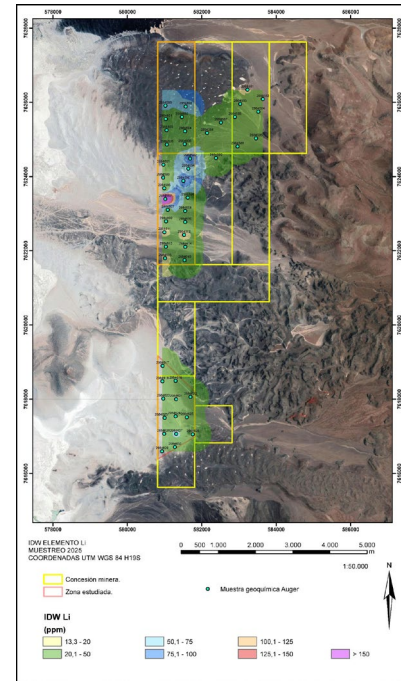
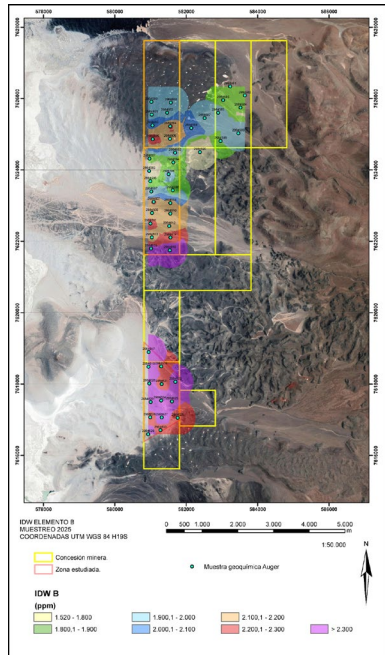
Near Surface Sediment Geochemistry

A semi-systematic near surface sediment sampling program was completed over identified geophysical and drill targets at the Ascotan Project (April 2025)

50 samples were taken using portable auger drill at a depth between 0.5-1.5 meters with an average depth of 0.8 meters

Li values up to 245 ppm

B values up to 2,420 ppm



Environmental Approval and Cooperation Agreement with The Cebollar-Ascotan Indigenous Community

- ❑ Favorable official response from the Environmental Evaluation Service of Chile “*Servicio de Evaluación Ambiental (SEA)*” to the OCA Salar de Ascotan Project “*Consulta de Pertinencia de Ingreso al SEIA del Proyecto de Sondajes OCA*”
- ❑ Signed Cooperation Agreement that formalizes the Company's relationship with The Cebollar-Ascotan Indigenous Community “*Comunidad Indígena Cebollar-Ascotán*” at the Salar de Ascotan
- ❑ Formation of a long-term mutually beneficial partnership for the Community to benefit from the participation in the employment opportunities and social infrastructure improvements
- ❑ Full focus on a social license to operate and contribution to environmental sustainability and socio-economic health of the Community





Salar de Ascotan Project exploration program - timeline estimates

- ❑ Property-wide TEM geophysical surveys 47 line-km – completed Q4/22
- ❑ Magneto-Telluric (MT) geophysics - completed Q1/23
- ❑ Drill target definition – completed Q2/23
- ❑ Surface brine geochemical sampling program – completed Q3/23
- ❑ Environmental Approval – completed Q1/24
- ❑ Community engagement and social licensing – completed Q1/24
- ❑ Sediment geochemical program in drill target sectors – completed Q1/25
- ❑ Hydrogeological model - ongoing
- ❑ Drilling contractor selection and drilling program logistics - ongoing
- ❑ Exploration drilling to test brine units' depth, controls and continuity of geochemical composition – est. H1/26
- ❑ Porosity and permeability analysis – est. H1/26



Lidstone

Gold and LCT Pegmatite Prospect

Northwestern Ontario

Lidstone

Gold and Lithium-Cesium-Tantalum pegmatite prospect

The property is located approximately 120 km northeast of the town of Armstrong, Ontario, which is approximately 270 km directly north of the City of Thunder Bay along highway 527

Network of logging roads allows the property access from the west via a truck and from the east via a truck and on foot (approx. 1.5km)

17,600 ha of mining claims

100% owned

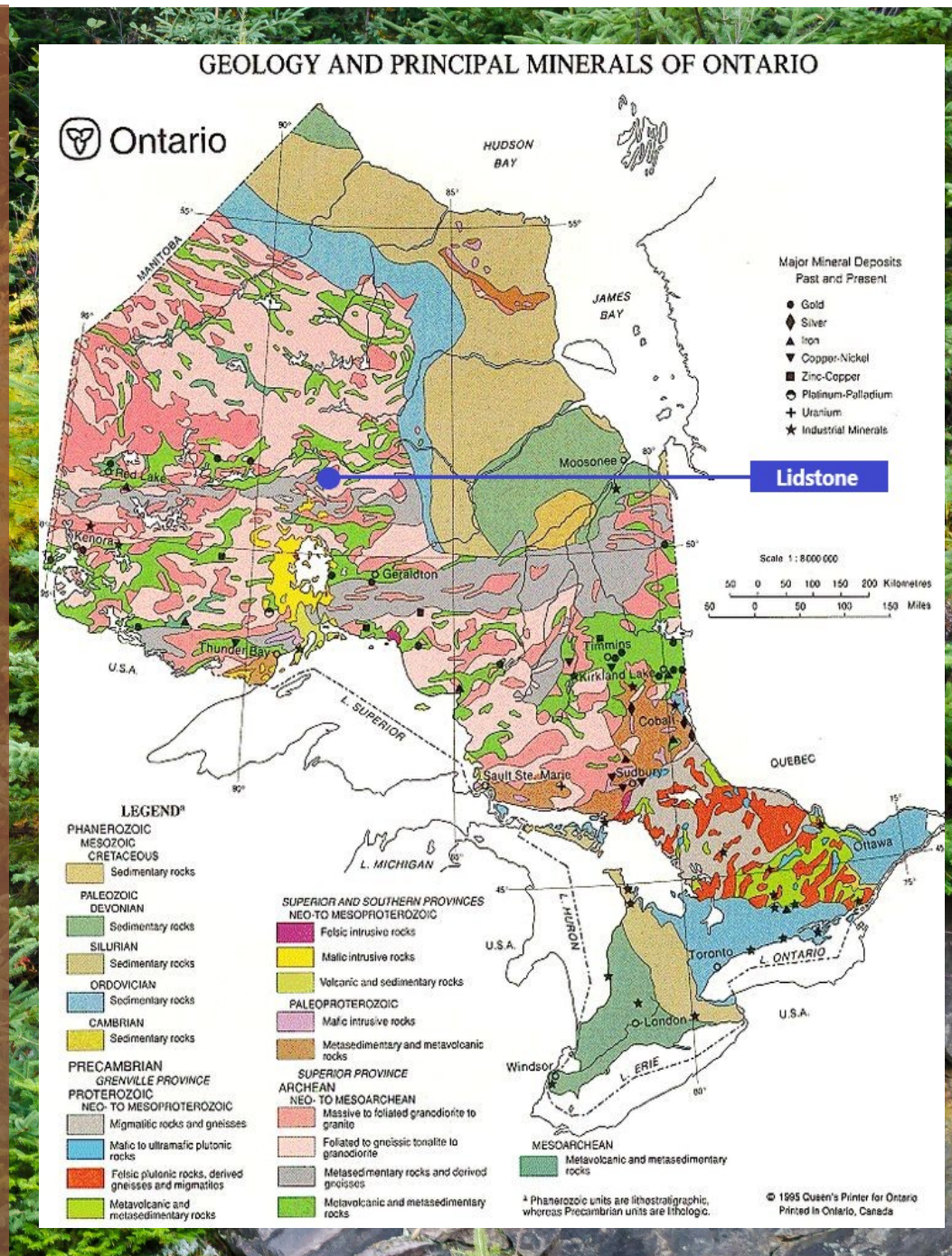
No royalties

First field exploration program collected 54 rock samples (Oct. 2024)

Quartz vein returned 0.272 g/t Au (Mar. 2025)

Exploration to follow up on gold mineralization prospectivity in the 2025 field season

23



Prospect Geology

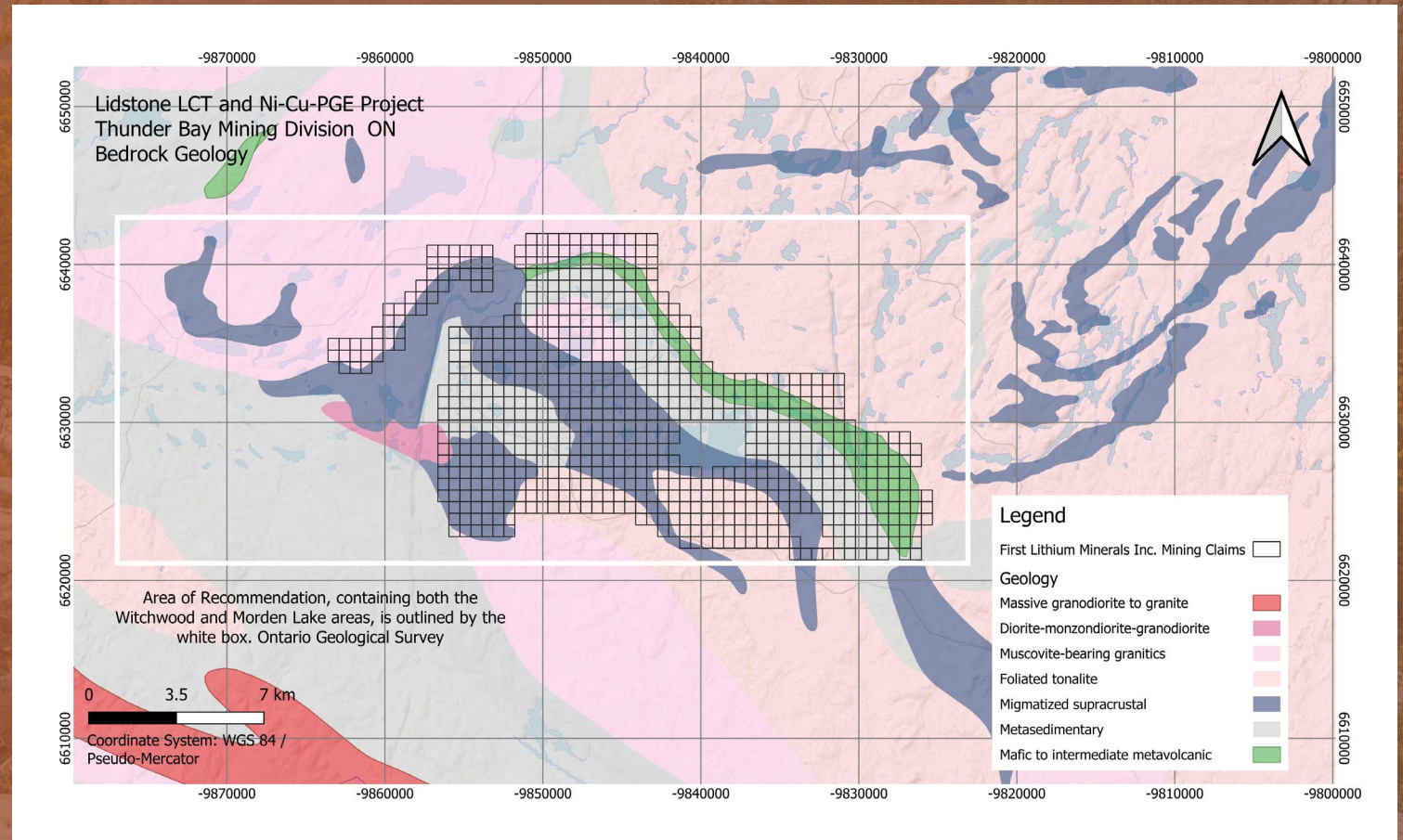
Mineral deposit types known to occur within the English River sub province include the formation of extensive Fe formation of wacke-turbidite association, RE pegmatites subprovince boundary zones, Cu-Ni-Co-PGM sulfides in meta-ultramafic pods, and polymetallic VMS within the greenstone enclaves

Immediately to the north-east of Lidstone prospect is the documented Sim Lake Occurrence, which hosts a two-phase, 350m x 800m mafic-ultramafic intrusive bearing disseminated and net-textured Cu-Ni-Co-PGM-sulphide mineralization

Historical exploration described the intrusion as mineralized gabbroic core surrounded by an outer zone of mineralized pyroxenite, suggesting that the intrusion is layered.

Historical surface sampling ran as high as 1.95% Ni and 1.72% Cu (Source: OGS, June 2006, "Diamond Drill Report on the Sim Lake Property")

This style of geology and mineralization is the target of the proposed exploration for the Lidstone property



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Geophysics

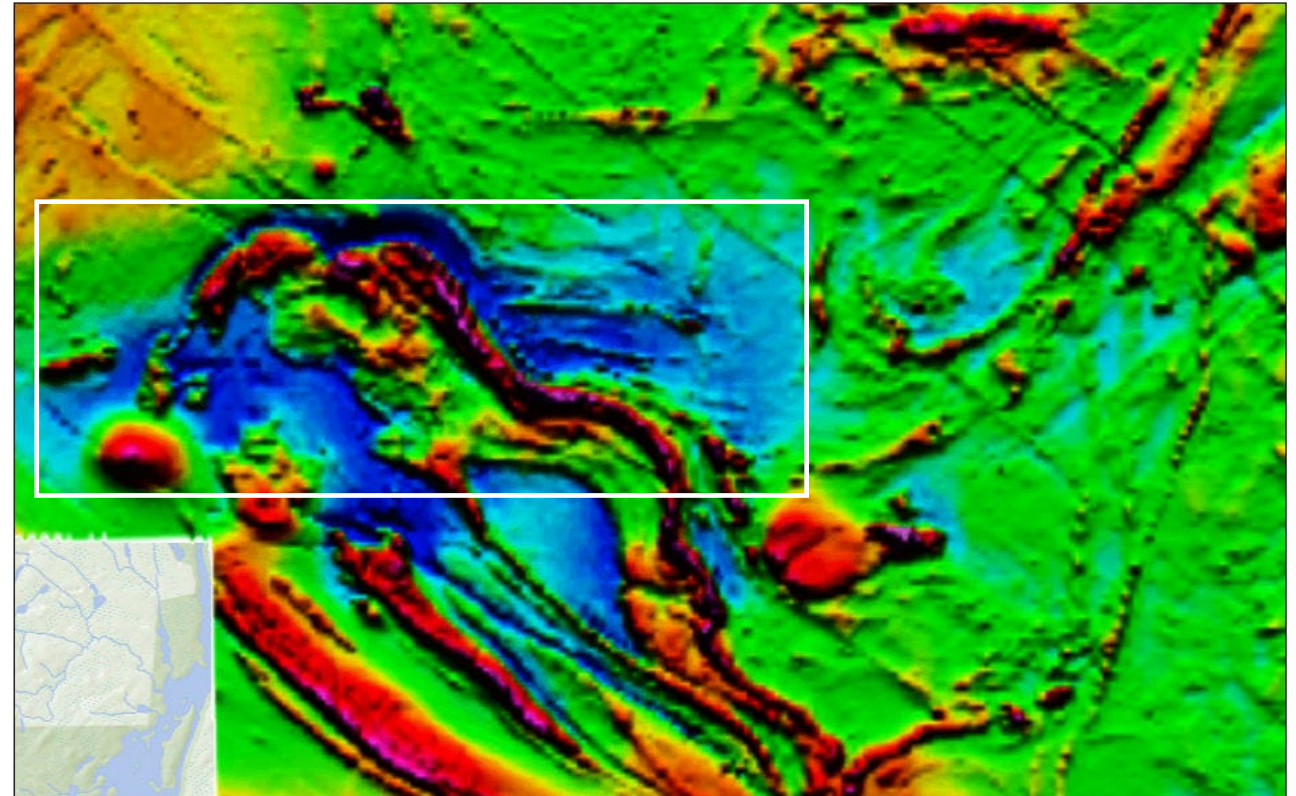
The prospect area consist of coincident magnetic abrupt highs and lows and zones of high electromagnetic (EM) conductance

Multiple areas of interest suggests historical work overlooked a significant exploration opportunity in the prospect area

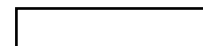
The area shows shear strike that extends north-west through the central part of the prospect with the magnetic high defining the mafic and tonalite units which show high potential magnetic / iron signatures that can be part of a catalyst for Ni-Cu-PGE deposition

Magnetic data in combination with lithology from historical drilling demonstrates potential scale and prospectivity for a near surface mineralization

Ontario High Resolution Aeromagnetic Residual Magnetic Intensity



6/20/2024, 1:09:34 PM



- Lidstone Project area

1:288,895
0 1.5 3 6 mi
0 2.5 5 10 km

Ontario Geological Survey, 2017, Ontario Airborne Geophysical Surveys, Magnetic Data, Grid Data (ASCII and Geosoft Formats), Magnetic
Ontario Geological Survey
King's Printer for Ontario

Lidstone Exploration Program

Reconnaissance exploration 2025 field season

- ☐ Geologic mapping
- ☐ Geophysical survey
- ☐ Geochemical survey
- ☐ Line cutting
- ☐ Drill target definition



Rusted quartz vein (right) collected from weakly altered metasedimentary rocks (above) returned an assay of **0.272 g/t** gold.



Contact us

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