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Furthermore, cost over-runs or unexpected changes in commodity prices in any future development could make the projects uneconomic, even if previously determined to be economic under feasibility studies. Accordingly, notwithstanding the positive results of one or more feasibility studies on the Company's projects, there is a risk that the Company would be unable to complete development and commence commercial mining operations at one or more of the mineral properties which would have a material adverse effect on the Company's business, financial condition, results of operations and prospects.

Mineral exploration and development are highly speculative and are characterized by a number of significant inherent risks, which may result in the inability to successfully develop our projects for commercial, technical, political, regulatory or financial reasons, or if successfully developed, may not remain economically viable for their mine life owing to any of the foregoing reasons, among others. There is no assurance that the Company will be successful in achieving commercial mineral production and the likelihood of success must be considered in light of the stage of operations.

For a more comprehensive overview of the risks related to the Company's business, please review the Company's continuous disclosure documents, including the section titled 'Risk Factors' in the Company's current Annual Information Form, each filed under the Company's profile at www.sedar.com.

HIGHLIGHTS: CORPORATE OVERVIEW



Capital: ~\$35 million in cash and ~750k shares traded daily in Canada, USA, and Germany

Location: "Lithium Triangle" surrounded by multi-billion-dollar producers and established infrastructure

Results: NI-43-101 Resource Estimate; constructing pilot plant; DLE and production process has yielded over (i) 9,000 mg/L lithium concentrate and (ii) high-grade LiOH and Li₂CO₃

TOLILLAR

- 27,500 hectares
- 100% Alpha no competitors
- · 24 exploration wells drilled
- Significant fresh water supply
- 2.1m tonnes LCE Indicated
- 1.2m tonnes LCE Inferred
- Only 32% explored
- Lithium grades ~350 mg/L

HOMBRE MUERTO

- 5,000 hectares
- Increasing land base
- Lithium concentrations reported up to 1,200 mg/L with low impurities (2.5:1 Mg:Li)
- Borders shared with Livent, POSCO, Allkem



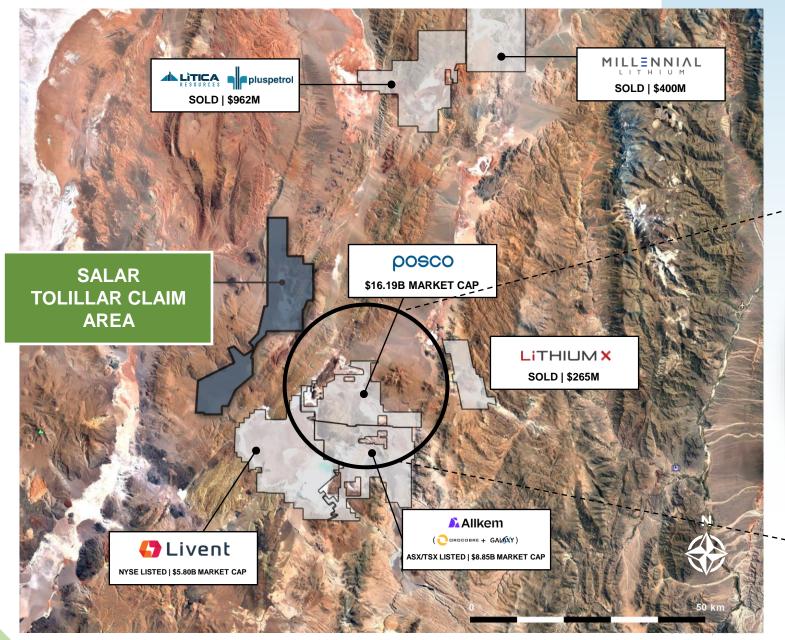
MARKET COMPARABLES: VALUE GAP



Company	Alpha (NEO-listed)	Pozuelos / Pastos Grandes (Litica) (sold to Ganfeng)		Rincon Millennial Lithium (sold to Rio Tinto) (sold to Lithium Americas)		Eramine (Eramet) (50% JV with Tsingshan)		Neo Lithium (sold to Zijin)	Lake Resources (ASX-listed)	Argosy (ASX-listed)	
Project	Tolillar ONLY	Pozuelos	Pastos Grandes	Rincon	Pastos Grandes	Kachi	Ratones	Centenario	Tres Quebradas	Kachi	Rincon
Location	Salta	Salta	Salta	Salta	Salta	Catamarca	Salta	Salta	Catamarca	Catamarca	Salta
Bronorty size (hostores)	27,500	10,787	2,683	83,000	14,000	11,000	na	na	35,000	70,000	2,794
Property size (hectares) 27,500 (1)		13,470		83,000	25,000		22,500		35,000	70,000	2,794
Other owners in same salar	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Regional Infrastructure	Lithium mining "Central Hub" with extensive infrastructure	Some existing infrastructure in general area	Some existing infrastructure nearby	Infrastructure in general area	Some existing infrastructure nearby	Some existing infrastructure in general area	Infrastructure in general area	Infrastructure in general area	Very little infrastructure in the area	Remote, with very little or no existing infrastructure	Infrastructure in general area
Contemplated Production (LCE tonnes/year)	50,000 ⁽⁵⁾	25,	000	50,000	24,0	000	24	,000	20,000	50,000	10,000
Planned Life of Mine	40+ ⁽⁵⁾	40		40	40		40		35	25	16.5
Development Stage	PEA underway	PEA ur	nderway	PEA	DFS				DFS	PFS	Construction
Fresh water availability	Exclusive access to >583 m3/h freshwater ⁽²⁾	Limited	Competitive	Limited	Sufficient	Limited	Sufficient	Sufficient	Sufficient	Extremely limited	Limited
Lithium conc. (mg/L)	>350 ⁽³⁾	465	470	250	439	592	330	383	637	212	325
LCE measured (tonnes)		620,000	197,468	4,899,600	2,262,000		2,02	23,000	1,897,000		
LCE indicated (tonnes)	2,119,000(4)	2,040,000	571,850	902,800	1,858,000		3,22	26,000	3,472,000	2,200,000	245,120
LCE inferred (tonnes)	1,158,000 ⁽⁴⁾	7,470,000	192,800	5,965,500	798,000		4,68	39,000	2,261,000	3,100,000	
Price / Market Cap (US\$)		Sold: US\$962 million		Sold: US\$825 million	Sold: US\$400 million		Sold: US\$750 million (implied value based on terms of JV)		Sold: US\$737 million	Market cap: US\$801 million EV / Production:	Market cap: US\$687 million EV / Production:
Valuation		Sold to Ganfeng Lithium		Sold to Rio Tinto	Sold to Lithium Americas,		Entered 50-50 JV with Tsingshan,		Sold to Zijin	\$14k / tLCE	\$63k / tLCE
		(Oc	(-22)	(Mar-22)	(Jan	1-22)	(Nov-21)		(Oct-21)	EV / Resource: \$128 / tLCE	EV / Resource: \$2,579 / tLCE

Source: Factset as of 1/11/23, Company information.

(1) Only 32% of Salar explored, (2) Conhidro completed water recharge study which determined flow of ~13,998 m3/day (583 m3/h) could be exploited without affecting the freshwater reserves, (3) Dec 19, 2022 news release, recent drill samples indicate >350 mg/L grade, (4) Based on Sept, 2022 Resource Estimate, which only included 12 of today's 24 wells, (5) These figures represent the parameters under which the Company's proposed 50ktpa LCE PEA is being prepared by Ausenco, see January 9, 2023 news release for more information.



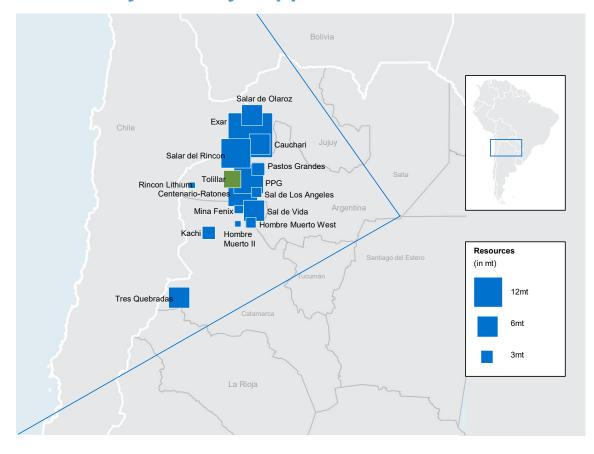
AREA OF OPPORTUNITY



MOMENTUM FOR LITHIUM IN ARGENTINA



Increasing number of new projects has positioned the country as a key supplier towards the future



Most appealing opportunity in the Lithium Triangle

- Lithium Triangle accounts for 56% of global lithium resources, of which 21% correspond to Argentina
 - ☐ Argentina ranks #3 in terms of largest proven reserves globally
- Favorable regulatory framework has positioned Argentina as the fastest growing player in the region
 - ☐ Lithium production in Chile is concentrated in the Atacama Salar, with Albermarle and SQM being the two only major producers, under a strict regulatory regime and recently put under state control
 - ☐ Bolivia's strategy has been focused on state control of the lithium value chain, except for the industrialization process, which can be performed by private companies only via partnerships with the government

Lithium supply from Argentina is expected to grow 10x by 2037



STRATEGIC GLOBAL PLAYERS HAVE ANNOUNCED INVESTMENTS IN ARGENTINA



Lithium investment announcements in Argentina

(in US\$m)

\$450 2018 Equity investments

posco

\$160 2019

Lithium Americas

Ganfeng Lithium

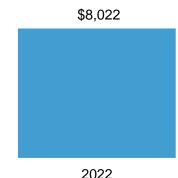
\$519 2020



\$1,368 2021





















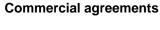










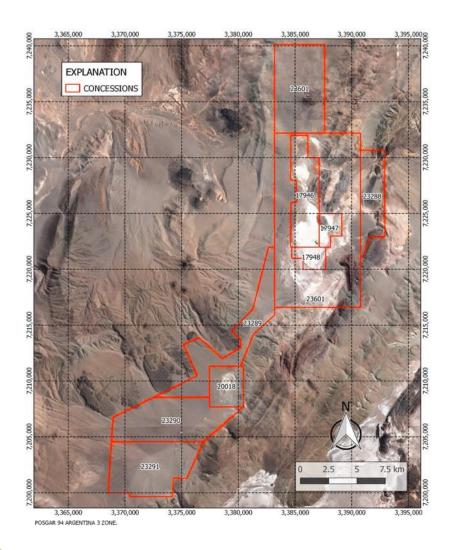






TOLILLAR PROJECT DETAILS





- 27,500-hectare salar
 Alpha is sole owner of entire salar
 9,000 hectares (32%) explored
 24 exploration wells drilled and completed, including two freshwater wells
 160 geophysics points / 85km of lines, all Vertical Electrical Sounding ("VES")
- Preliminary Resource Estimate, September 2022
 2.11 million tonnes of indicated resource (LCE)
 1.16 million tonnes of inferred resource (LCE)
 Additional 18,500 hectares (68%) not yet explored
- Production favourable for (i) traditional pond evaporation and (ii) DLE production Proprietary DLE technology has produced over 9,000 mg/L lithium concentrate Proprietary DLE+production process has produced high-grade Li₂CO₃ and LiOH
- Uncontested access to high flow rate fresh water (>75m³/hour)
 Initial recharge studies indicate renewable and environmentally sound source
- Regional infrastructure includes local skilled workforce, high-grade roads, rail, airport, high-voltage electrical grid, natural gas pipelines and trucking infrastructure

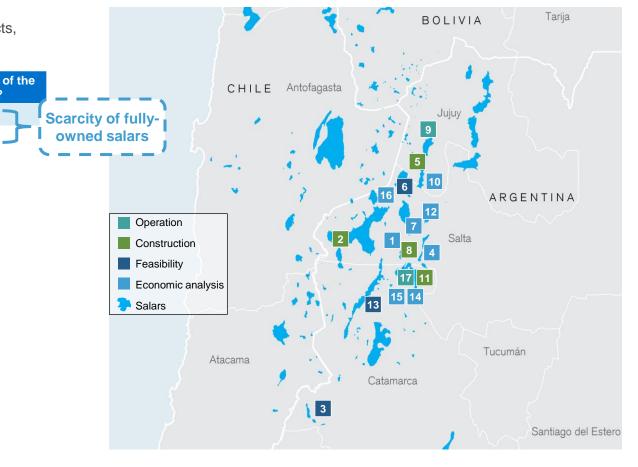
ALPHA CONTROLS 100% OF TOLILLAR SALAR WITH NO COMPETING CLAIMS



 While other projects in the area have a fragmented ownership composition, Alpha Lithium owns 100% of the salar

☐ Regulation is still unclear regarding resource sharing among adjacent projects, leading to a resource competition among firms

#	Project	Salar	Province	Company	Sole owner o salar?	
1	Tolillar	Tolillar	Salta	Alpha Lithium	✓ •	
2	Mariana	Llullaillaco	Salta	Ganfeng	✓ .	
3	Tres Quebradas	Tres Quebradas	Catamarca	Zijin	X	
4	Sal de Los Ángeles	Diablillos	Salta	Lithium X	X	
5	Exar	Cauchari	Jujuy	LAC / Ganfeng	X	
6	Salar del Rincon	Rincon	Salta	Rio Tinto	X	
7	PPG	PPG	Salta	Ganfeng	X	
8	Centenario-Ratones	Ratones	Salta	Eramet / Tsingshan	X	
9	Salar de Olaroz	Olaroz	Jujuy	Allkem	X	
10	Cauchari	Cauchari	Jujuy	Allkem	X	
11	Sal de Vida	Hombre Muerto	Catamarca	Allkem	X	
12	Pastos Grandes	Pastos Grandes	Salta	Lithium Americas	X	
13	Kachi	Kachi	Catamarca	Lake Resources	X	
14	Hombre Muerto West	Hombre Muerto	Catamarca	Galan Lithium	X	
15	Hombre Muerto II	Hombre Muerto	Catamarca	Lithium South	X	
16	Rincon Lithium	Rincon	Salta	Argosy Minerals	X	
17	Mina Fenix	Hombre Muerto	Catamarca	Livent Corporation	X	



AMPLE FRESH WATER FOR USE WITH BESPOKE DLE PRODUCTION TECHNOLOGY



Alpha's Water Resource – 3 Main Highlights

- 1. Already proven water basin supplies enough fresh water to produce more than 50,000 tpa LCE
- 2. Abundant fresh water supply is extremely high quality, with very low TDS (technically "potable", 1,442 mg/L), exceeding requirements for even "industrial fresh water"
- 3. Based on observations, two other fresh water basins are believed to exist on the Tolillar property

Alpha's DLE Technology – 3 Main Highlights

- 1. More than 2 years invested in developing a bespoke process made specifically for Tolillar but applicable elsewhere
- 2. Achieves 1,600 mg/L lithium concentration immediately following DLE and eliminates the need to add additional heat or pressure during the purification process. Rerverse Osmosis allows further concentration to over 9,000 mg/L
- 3. Alpha's proprietary DLE resin has an increased functional life, reducing the operating cost of frequent replacement

Tolillar has an abundance of high quality water, and an expertly developed technology to facilitate efficient production of LCE

PILOT PLANT



Latest updates

- Required permits are granted
- Advanced Detailed Engineering is complete
- Procurement is underway partially complete
 - RFP for Effluent Treatment Plant of Camp was issued
 - New proposals for Reverse Osmosis units received, continuing technical analysis
- Construction started in December 2022
- Steel columns, perimeter beams and foundation are complete
- Completion of concrete pouring, compaction/leveling verified, formwork installed, rebar installed in all reinforced concrete





TOLILLAR RESOURCE ESTIMATE



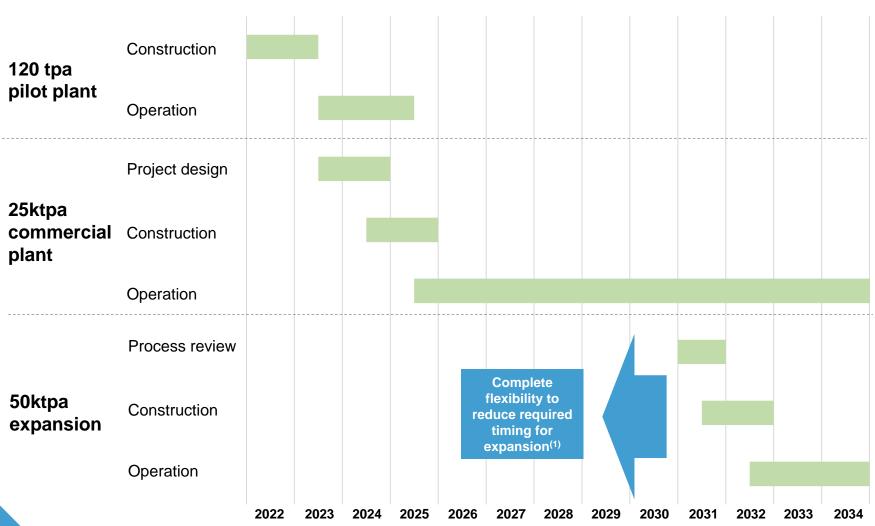
Resource Category	Brine Volume (m³)	Avg. Li (mg/L)	In situ Li (tonnes)*	Li ₂ CO ₃ Equivalent (tonnes)*	Avg. K (mg/L)	In situ K (tonnes)*	KCI Equivalent (tonnes)*
Indicated	1.6 billion	242	398,000	2,119,000	2,315	3,873,000	7,387,000
Inferred	1.1 billion	191	218,000	1,158,000	2,201	2,510,000	4,786,000

- Average drainable porosity of 13%
- Current resource estimate represents only 32% of the property
- Maximum depth drilled of 400 metres (maximum sample depth of 349 metres) with 345 mg/L lithium reported
- Additional resource may be added "horizontally" through areal expansion drilling
- Additional resource may be added "vertically" through deeper drilling and capturing additional volume
- Additional resource may be added "vertically" through deeper drilling and capturing improved lithium quality

PATH FORWARD



Timeline



Key milestones

- 1. Explored ~9,000 hectares of the salar
- 2. Acquired 160 points of VES, a total of 85 km of VES lines
- 3. Drilled 22 exploration wells
- 4. Constructed a 100-person camp and built infrastructure on-salar
- 5. Discovered significant fresh water resource and completed recharge study
- Produced resource estimate
- 7. Started construction of pilot plant

Milestones ahead

- 1. Complete on-site pilot plant and operate under salar conditions
- 2. Improve resource estimate (i) quality and (ii) size through additional drilling
- 3. Complete economic assessment and define best extraction process

HOMBRE MUERTO: PROJECT DETAILS



- 5,000+ hectares in world's top lithium brine location, Hombre Muerto Alpha is still actively acquiring additional property Salta Province ranked best in Argentina for Mining Policies* Salta Province ranked 3rd in South America for Investment Attractiveness*
- World-class lithium brine quality, purity, production, cost, regime Worldwide "central hub" of lithium brine mining Extensive infrastructure thanks to 25-year production history
- Vertical Electrical Sounding ("VES") surveys reveal significant brine presence Expected lithium grades of up to 1,200 mg/L of high-purity brine (Mg:Li ~2.6)
- Bordered by POSCO and Livent 10km to freshwater source and 100-person camp at Tolillar Attractive mining regime attracts high asset valuations
- Extensive team experience, specifically in Hombre Muerto
 Alpha team previously closed significant asset transactions in Hombre Muerto



HOMBRE MUERTO: MILESTONES



Hombre Muerto Milestones ACHIEVED...

- Acquired 5,000 hectares
- Completed 56 VES points and a total of 28.5 km of VES lines
- Received REMSA approval for an expanded personnel camp
- Received drilling licenses for 12 wells and preparing drillsites
- Accumulated significant 3rd party interest

Hombre Muerto Milestones AHEAD...

- More than double the size of Alpha's properties
 - ~ 5,700 additional hectares being pursued, subject to final documentation
- Acquire additional VES surveys to determine depth and areal extent of brine body
- Begin drilling exploratory wells
- Complete resource estimate
- Utilize pilot plant to potentially blend brines and determine optimal purification method
- Complete economic assessment

SENIOR MANAGEMENT





Brad Nichol
President & CEO, Director, P. Eng., MBA

Throughout his +25-year career he has served as both senior executive and director of a number of public and private enterprises across the finance and resource sectors. He has led successive organizations through multiple rounds of private and public project financings, initiated and executed dual listings, established key international and domestic financial relations, oversaw M&A, technical, operational, HR, investor relations, legal and regulatory functions as well as closing several accretive asset acquisitions and financings in multiple jurisdictions. Previously, Mr. Nichol worked at Schlumberger in various technical, managerial, marketing and sales roles in North America, South America and Europe. Mr. Nichol earned his MBA at the London Business School (Honors 2003) and also holds a BSc. in Mechanical Engineering from the University of Alberta and has been a registered Professional Engineer since 1994.



Nathan Steinke Chief Financial Officer

Mr. Steinke is a well respected finance professional with over 15 years of experience for both public and private companies in the international resource sector. Since 2003, Mr. Steinke's responsibilities have comprised of all financial aspects of companies, including debt and equity financings, corporate structure design and management, cash flow management and forecasting, legal and regulatory compliance, stakeholder engagement and reporting, dual listing execution and management, and risk management.



David Guerrero
Country Manager

Mr. Guerrero brings 20 year's worth of international experience in the mining industry, 12 of them specifically related to lithium as a specialty product. He has held various roles with mining major Rio Tinto as well as senior management positions with Canadian Lithium 1 and with Australian-based Galaxy Resources (ASX: GXY), where he undertook a key functional role in a recent USD \$280M M&A transaction with giant Korean steel maker POSCO for mineral resources at the Hombre Muerto salar, the best quality brine producing district in Argentina. Former President to Salta Mining Providers Chamber, and AUSCHAM Argentina chapter's Vice President, Mr. Guerrero also brings indispensable local knowledge and communal leadership in Argentina's Northern Region.



Darryl Jones
Executive Director

With over 15 years of capital market experience and an established financial network, Mr. Jones was an Investment advisor with PI Financial Corp Canada and Raymond James Ltd Canada. He was responsible for raising significant risk capital for growth companies in all sectors, with a particular focus on natural resources. Mr. Jones has held senior management and director positions in several resource extraction companies and is currently the CEO of Alpha Copper

BOARD OF DIRECTORS





Foster Wilson Director

Mr. Wilson has over 30 years of experience in exploration and development ranging from reserve drilling and estimation, feasibility studies, mine permitting and development. He has worked in various capacities for Placer Dome, Echo Bay, American Bonanza Gold and various junior exploration companies. Foster also currently serves as President of Mesa Exploration.



Sean Charland
Director & Corporate Secretary

Mr. Charland is a seasoned communications professional with experience in raising capital and marketing resource exploration companies. His network within the financial community extends across North America and Europe. Mr. Charland also serves as a Director of several public companies including, Zimtu Capital Corp. and Aurvista Gold Corp.



Chris Cooper Director

Mr. Cooper has over 20 years of experience in management and finance in the oil and gas, mining and technology industries. Mr. Cooper received his B.A. from Hofstra University and his M.B.A. from Dowling College, both in New York State. He has been involved in the creation and funding of several oil and gas issuers including Choice Resources Corp., an intermediate oil and gas producer before it was taken over in August 2007 by Buffalo Resources Corp. Mr. Cooper also sits on the board of other junior public companies, including: Counterpath Corporation; Westridge Resources Inc. (CSE); Bullion Gold Resources Corp. (TSX.V); and Planet Mining Exploration Inc. (TSX.V). He has sat on the audit committee of many public companies in several different industry sectors and has a broad comprehensive knowledge of financial reports.



Andrew HallettDirector

Mr. Hallett is an established commodities professional with over 15 years of experience in banking, trading and asset management across metals and mining, emissions, and energy transition sectors. Mr Hallett brings a significant amount of commercial and commodity specific expertise to the board. Mr. Hallett is currently a Principal at Anglo American Marketing, with a focus on clean energy and carbon investments and trading opportunities. Mr. Hallett previously held senior transactional roles at Rice Capital Partners, BTG Pactual Commodities, and Deutsche Bank. Mr. Hallett received his BA in Economics from the Augustana Faculty of the University of Alberta, and an MSc in Finance from the London School of Economics.



Share Capital Summary (April 2023)

March 2020: \$2 million @ \$0.25

June 2020: \$3.7 million @ \$0.37

September 2020: \$5.75 million @ \$0.65 (bought deal)

February 2021: \$23 million @ \$0.81 (bought deal)

December 2021: \$25 million @ \$1.00 (bought deal)

CAPITALIZATION TABLE **TOTAL ISSUED and OUTSTANDING:**

176.8 million

Warrants and Options:

Warrants: 13.4 million warrants @ \$1.45, expiring Dec 2023

Options: 15.4 million options @ average \$0.74

TOTAL ISSUED and OUTSTANDING, FULLY DILUTED: 205.6 million

Total cash on hand: \$35 million



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