



PATAGONIA LITHIUM

ASX:PL3

Q2 2024 Investor Presentation

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Unless otherwise stated, all dollar values are in Australian Dollars (A\$).



Board of Directors



Phil Thomas Executive Chairman

- Phillip has more than 20 years' experience working in Argentina on Pocitos, Guayatayoc, Salinas Grandes, Pozuelos, Rincon, Incahuasi and now Pocitos and Cilon salars.
- He is COO of Recharge Resources, and past CEO of A.I.S. Resources Ltd and chairman and CEO of Admiralty Resources NL (ASX:ADY) where he and his team explored and developed a pilot plant at the Rincon Salar in 2003-2008. He is both QP for NI43-101 and CP for JORC in lithium brines.He is Non-Executive Chairman of copper producer, Austral Resources Australia Ltd (ASX:AR1).
- Phillip is President of Panopus Plc a Singapore based resources and banking consultancy that specialises in valuations and appraisals of mining projects, exploration programs for lithium, advisory, capital raising, and banking feasibility studies.



Rick Athon Non-Executive Director

• Rick Anthon is an independent Non-executive Director who joined the Board of Patagonia Lithium Limited from 19 February 2024. Rick has a BA LLB from Australian National University. He is a lawyer with over 30 years' experience in both corporate and commercial law practicing exclusively in the resource sector. Rick has worked both as a director and adviser to numerous resource companies and has extensive skills in project planning, acquisition and development, capital raising and corporate governance. Rick's most recent role was as head of Corporate Development for 8 years for Allkem Limited (formerly Orocobre Limited) where his responsibilities included capital raisings, the strategic partnership with Toyota Tsusho Corporation, Orocobre's 2021 merger with Galaxy Lithium and ultimately Allkem's recently completed \$10Billion merger with Livent Corporation to form Arcadium Lithium.





Feiyu (Sam)Qi Non-Executive Director

- Mr Feiyu (Sam) Qi has substantial experience in the lithium product and related battery and EV markets. He represents one of our largest shareholders Fuyang Mingjin New Energy Development Co., Ltd (Mingjin) which holds 17.08% of the Company's shares on issue.
- Sam graduated from Shanghai University with a major in project management and has more than 20 years' experience providing professional services. He is CEO of Mingjin and a non-executive director of Octava Minerals Limited (ASX:OCT), a lithium, gold and PGM explorer.
- Through his work at Mingjin he has developed strong relationships with several world class battery manufacturers cooperating to provide lithium carbonate and battery manufacturing equipment

Overview of projects

Formentera Project

- The Formentera Project is the Company's flagship project.
- 1,752 hectares (17.52 km²) and located in an area dominated by clastic and saline sedimentation.
- It is prospective for lithium and boron.
- Lilac Corp is drilling 6km away
- Nearby tenements include Allkem (ASX:AKE), Lake Resources (ASX:LKE) & Lithium Americas (NYSE:LAC)

Cilon Project

- The Cilon Project is adjacent to the Formentera Project.
- 199 hectares (1.99 km²) and located in an area dominated by saline sedimentation.
- Historically operated as a Ulexite borate mine.
- Jujuy Province, northwest of the Argentina, being prospective for Borates and lithium.
- Close to town of Jama (12km away).

Tomas III Project

- 571 hectares (5.71 km²) and is located in an area dominated by volcanics and sits about 300-600m above the surface of the salar.
- Drill permit issued May 2023
- Close to Power Minerals (ASX:PNN) – others on salar include Ganfeng (1772.HK), REMSA, Allkem (ASX:AKE).
- Tolar Grande town is 45km away.

Photo of Formentera (Paso Salar)



4 Brazil projects REE Niobium Pegmatites

- 41,000 hectares over three states Minas Gerias, Gaois, Mato Grosso.
- 19/25 permits issued
- Close to CMOC Niobium mine and Cataloa I REE carbonatite
- Significant satellite geophysics, completed, field trips for sampling in road cuttings and channels



Highlights – Exceptional Results



Picture of the drill hole 3 location and site geologists looking north west with salt on surface from evaporation

Geological team completed sampling in May 2023 at Formentera Salar with 1,122ppm highest Lithium assay*

- **0.3-0.9** Ω.m
- Drill hole one highest Li was 591ppm
- Drill hole two Highest Li was 582 ppm
- Porosity range for Well one 27-47% total porosity •
- 48hr pumping test highly successful with only 9m cone of depression, 72,000 litres pumped
- Ekosolve system recovered 92.1% Lithium, 1000t plant being built USA
- Need 4 holes to do indicated resource estimate
- Project has excellent infrastructure located 2km • from sealed highway
- Staff available in Jama and Susques
- Strong relationship with Mr Vidal, the community leader

Formentera" on 18 June 2024.



MT geophysics shows **substantial conductive layers at**

Project Milestones

- Jan 2023 drill permits issued for Formentera
- Mar 2024 drilling commenced, packer tests, brine assays, 48 hour pump tests, plan for10 wells, 4 needed for resource
- April 2024 First well completed
- May 2024 Second well completed
- July 2024 Third well to commence
- July 2024 Cilon drill permit issued
- August 2024 Fourth well to commence
- October 2024 JORC resource estimate draft
- November 2024 JORC resource estimate finalised
- November 2024 Brine recharge tests completed, report submitted
- December 2024 production plan EIA submitted

Photo of Formentera (Paso Salar)





Formentera/Cilon Project

Assays

Alex Stewart	Sample								Mg:Li					Packer Flow
Assay - Zone	No	from	to	Inte	erval	SG	Lithium	Magnesiun	n ratio	Boron	Potassium	Conductivity	ЭΗ	rate
		Μ	Μ	Μ		g/ML	ppm	ppm		ppm	ppm	uS/cm		L/Min
upper aquifer	1	. 75.	79	80.5	4.71	1.002	1		9 9.00	11	. 32	1.95	7.1	9.52
	2	102.	79 1	.07.5	4.71	1.001	<1	1	1 0.00) 4	29	1.71	7.4	12.50
sands	3	141.	79 1	45.1	3.31	1.055	132	73	9 5.60	276	5 1522	92.21	7.1	8.33
	4	157.	29 1	61.5	4.21	1.05	121	65	3 5.40	260	1463	84.47	6.9	11.11
	5	177.	29	182	4.71	1.096	254	89	7 3.53	342	2478	150.29	6.9	10.53
	6	222.	79 2	227.5	4.71	1.096	256	90	2 3.52	345	2486	151.48	7	2.08
	7	239	9.5 2	245.5	6	1.113	327	99	1 3.03	354	2811	166.59	6.9	8.33
	8	260).5 2	269.5	9	1.161	474	97	9 2.07	447	3761	205.69	6.8	7.14
	g	283	1.5 2	296.5	15	1.174	506	96	9 1.92	. 471	. 3980	210.33	6.8	6.90
lower aquifer	10	302	2.5 3	814.5	12	1.182	510	101	2 1.98	503	4250	214.01	6.7	8.00
gravels, sands	11	. 302	2.5 3	335.5	33	1.189	580	93	7 1.62	2 501	4008	217.89	6.7	8.00
		EOH	347	.00										
												Total		
SGS Assay -	Sample							Mg:Li				Dissolved		
Zone	No fr	om t	0	Interval	SG	<mark>Lithium</mark>	Magnesiu	ım ratio	Boron	Potassium C	onductivitypH	Solids	Ра	cker Flow rate
	М	1	4	Μ	g/ML	ppm	ppm		ppm	ppm	uS/cm	рр	m L/I	Min
upper aquifer	1	76	81	4.71	L									9.52
aanda	2	103	108	4./1										12.50
sanus	3	142	145	3.3	1									8.33
	5	177	182	4.23	1									10.53
	6	223	228	4.71	- [2.08
QA/QC Standard	Li 400				1.21	.34 415.0	00 1425	.00 2.49	459.00	3024	291400.0 1.	00		
	9.00	281.50	296.50	15.00	1.18	92 <u>534.</u>	<mark>00</mark> 921	.00 1.63	493.00	4143	216800.0 6	6.8 2836	50	7.14
	10.00	302.50	314.50	12.00) 1.17	'40 <mark>572.</mark>	<mark>00</mark>	.00 1.70	507	4570.00	222700.0 6	6.7 26530	00	6.90
lower aquifer	Dup 10	302.50	314.50	12.00	1.18	92 <mark>564.</mark>	<mark>00</mark> 959	.00 1.70	508	4587	215700.0 6	6.7 28380	00	8.00
gravels, sands	11.00	302.50	335.50	33.00	1.18	92 <mark>582.</mark>	<mark>00</mark> 985	.00 1.69	503	4474	215700.0 6	6.7 28380	00	8.00
		EOH	347.00		A	vg 55	8							



Geophysics – outstanding low resistivity provides bullseye drill targets



		SAMPLE		PERME	ABILITY				
	CLIENT	TOP	BOTTOM	CONFINING STRESS (800psi)		TOTAL	EFFECTIVE	GRAIN	
SAMPLE	SAMPLE	DEPTH	DEPTH	Kinf	Kair	POROSITY	POROSITY	DENSITY	
NUMBER	ID	(m)	(m)	(md)	(md)	(%)	(%)	(g/cc)	
1	-	44.35	44.50	266	283	41.9	40.8	2.359	
2	-	64.34	64.48	3.30	4.61	35.5	9.6	2.727	
3	-	107.28	107.45	128	145	42.9	41.7	2.410	
4	-	123.66	123.84	41.8	48.3	12.7	9.3	2.588	
5	-	171.12	171.29	10.9	15.2	34.7	24.0	2.553	
6	-	219.37	219.55	67.0	75.1	33.9	33.2	2.483	
7	-	236.04	236.23	5170	5200	47.3	37.3	2.445	
8	-	281.86	282.02	304	334	28.8	23.7	2.647	
9	-	357.30	357.50	546	583	25.3	23.6	2.704	

Effective porosity range 9.3%-41.7%

See ASX announcement "Survey Results Identify Excellent Drill Targets" on 13 June 2023.



The geophysics show two hot spot zones with a resistivity below 0.5 Ohm-m on each surveyed line where lithium brines are likely to concentrate



Formentera/Cilon Projects

- The Cilon concession area is located on the southern boundary of Formentera. 199 hectares and located in an area dominated by clastic and saline sedimentation.
- The Cilon Project includes an exploration application lodged in the Susques department, Jujuy Province, northwest of the Argentina, being highly prospective for borates and lithium.
- Historically operated as a Ulexite borate mine.



Aqua lines are no drill areas western lagoon is available to discharge brine



Ekosolve Processing Results

Lithium Carbonate Production at Pilot Plant

Table 5 Compositions of white crystals from crystallization process from Patagonia brine strip liquor

Sample name	Number of	Unit in mg/L							
Sample name	hot washing	[B]	[Ca]	[Fe]	[K]	[Li]	[Mg]	[Na]	
Patagonia strip liquor – 1W	1	0.0345	0.30	0.09	8.33	2035	0.07	3.13	
Patagonia strip liquor – 2W	2	0.0352	0.37	0.11	0.72	2090	0.09	0.26	
Patagonia strip liquor – 3W	3	0.0363	0.41	0.11	0.40	2136	0.08	0.20	

The purity of all cations is calculated in mg cation/g crystal based on mass and in % cation/total cations based on concentration. The results are presented in Table 6.

Table 6 The purity of all cations in white crystals from Patagonia brine strip liquor after 3 hot washings

Sample name	В	ased on	Lithium	Lithium%					
	В	Ca	Fe	K	Li	Mg	Na	Grade	LIUIIUIII70
Patagonia strip liquor – 1W	0.003	0.028	0.009	0.769	187.8	0.007	0.289	99.890%	99.415%
Patagonia strip liquor – 2W	0.003	0.033	0.010	0.065	187.8	0.008	0.023	99.986%	99.925%
Patagonia strip liquor – 3W	0.003	0.036	0.009	0.036	187.8	0.007	0.018	99.989%	99.942%
*Lithium Grade = (1	Mass _{Li2} co M	₃ –Mass _{in} ass _{Li2} C03	npurities)	, Lithiun	n%= <u></u>	Mass _{Li} ^S Li+impur	ities		

Lithium Extraction Efficiency



• EkosolveTM Direct Lithium Extraction (DLE) technology pilot plant test work at University of Melbourne achieves 92.1% lithium extraction efficiency from brines with average lithium concentration of 267 ppm lithium.

• Lithium recovered from 267ppm Li in brine was 246 ppm Lithium.

Formentera and Cilon Projects (Paso Salar)





Formentera and Jama salars where it only rains in Jan Feb about 3mm.



MT Geophysics at Tomas III – low resistivity unit means conductor layer – lithium brines may be present in the aquifer – drilling is next step



See ASX announcement "Patagonia Lithium completes geophysics survey on Tomas III" on 29 May 2023.





Brazil Projects – Lithium, REE and Niobium – 41,746Has



REE Ranking



Brazil Projects – REE and Niobium carbonatite deposit



The white areas on the figure on the left are the most probable to have been fenetized and concentrated rare earths





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www.patagonialithium.com.au

For further information please contact the authorising officer:

Phillip Thomas **Executive Chairman** Patagonia Lithium Ltd M: +61 433 747 380 E: phil@patagonialithium.com.au

> Patagonia Lithium Ltd ACN 654 004 403 Level 6, 505 Little Collins Street Melbourne VIC 3000