



Investor Presentation

June 2023

ASX: AM7

[arcadiaminerals.global](https://www.arcadiaminerals.global)

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Compliance Statement and Competent Person Statement

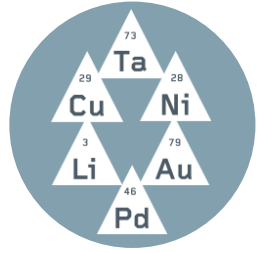
The Company confirms that the information in this presentation that relates to Exploration Results at the Company's projects have previously been released to the ASX inter alia in announcements dated 7 September 2021, 23 September 2021, 16 December 2021, 4 February 2022, 21 February 2022, 7 March 2022, 24 March 2022, 02 May 2022, 9 May 2022, 19 August 2022, 24 August 2022, 23 September 2022, 29 September 2022, 10 October 2022 and 11 October 2022 all of which will continue to apply and have not materially changed, and that the Company is not aware of any new information or data that materially affects the information that has been included in this presentation. The Company confirms that the form and context in which a Competent Person's findings are presented have not been materially modified from the original market announcements.

Mineral Resources

The Company confirms it is not aware of any new information or data that materially affects the information included in the Mineral Resource estimates of the Swanson and Bitterwasser Projects and all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed when referring to its resource announcements respectively made for Swanson on 23 September 2021 and 06 May 2022 and for Bitterwasser on 3 November 2021 and 24 August 2022. The Company confirms that the form and context in which a Competent Person's findings are presented have not been materially modified from the original market announcements. The independent geological experts have sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activities which they are undertaking to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (the JORC Code). Further details relating to the independence of the competent persons are detailed in the aforesaid announcements.

Cautionary Statement LR 5.16.4

A Diversified Battery-Metals Explorer



Prospect Generators Focusing on "New-Era" Metals



Exploration-to-Mine Philosophy



"Step-up" Value-Accretive Approach to Reduce Exploration Risk



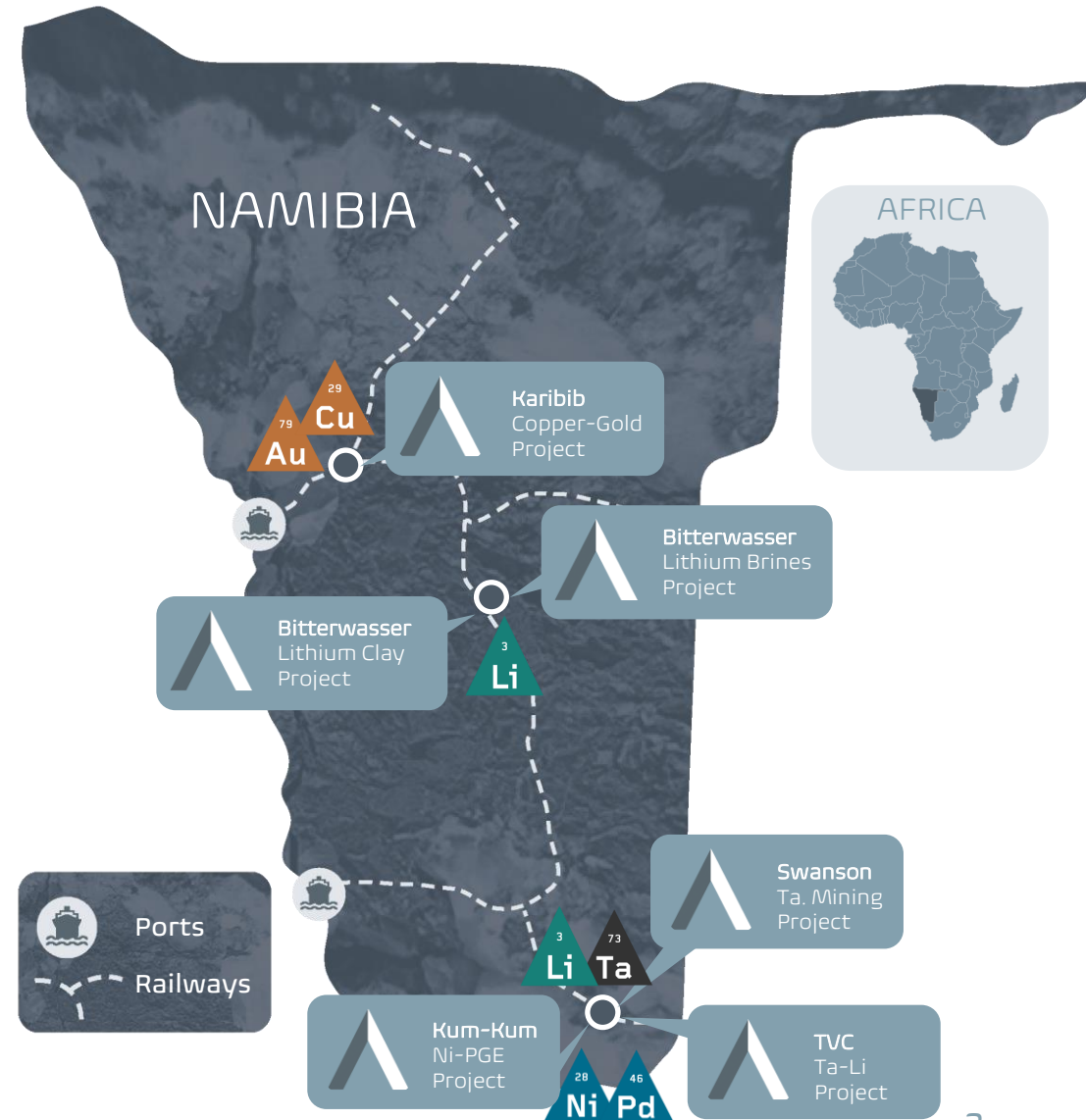
Proven Mine Finders



Focus on Potentially Company Transforming Assets



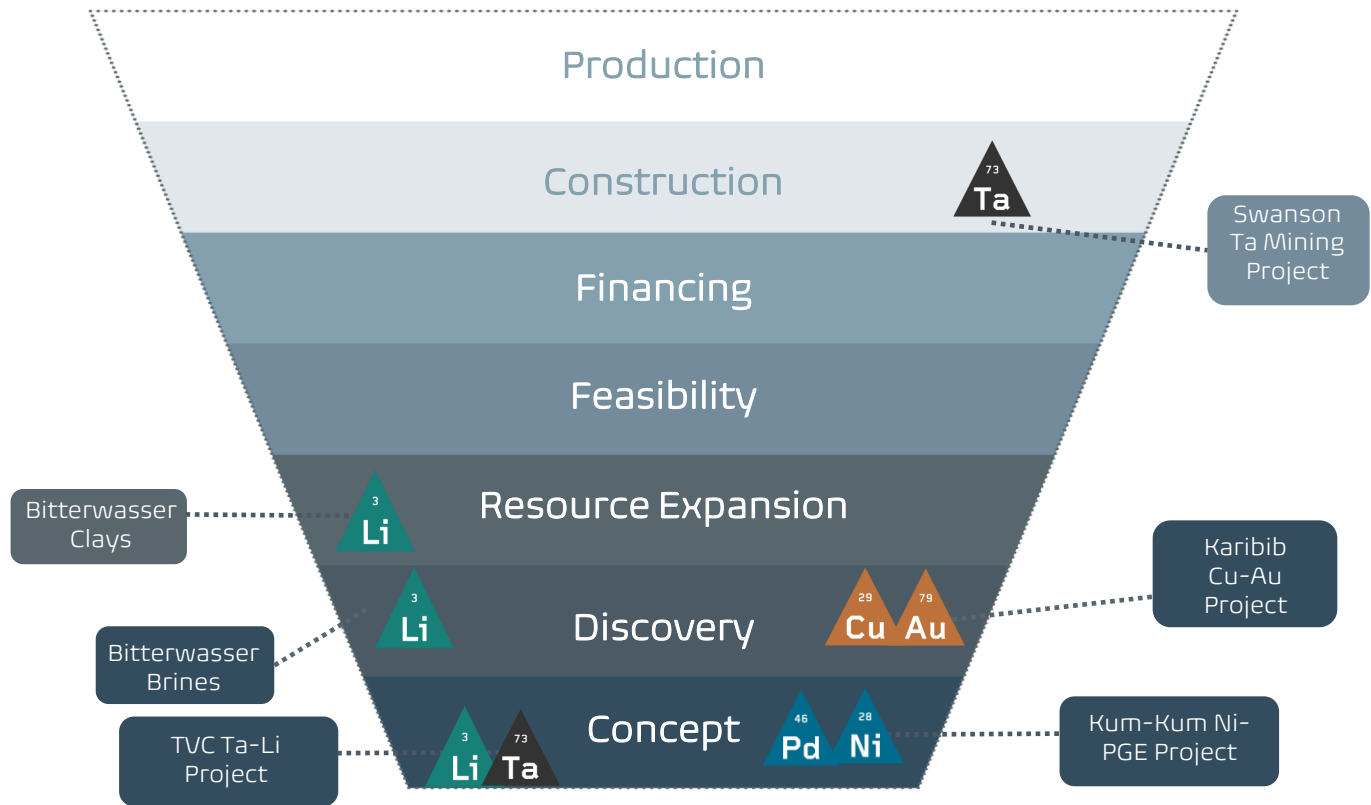
Large Tenements with Right Geology



Value Creation through targeted Exploration



	Clear Strategy: Battery Metals Explorer
	Bitterwasser Li Project: Significant Geophysical Anomaly, Growing MR = Globally Significant Lithium Province?
	Ta Project: Feasibility Underway & Potential Transaction with Hebei Construction
	Ta Project: Potential Cash Generator to Underpin Value
	Expanding JORC Resource Base at Swanson Mining License and at nearby exploration ground
	Cu-Au Project: 25km x 2km Structural Feature with Significant Mineralisation
	Ni-PGE Project: Mafic and Ultra-Mafic Stratiform Ni-Cu-PGE Disseminated Sulphide 'reef' Horizon with Mineralisation mapped



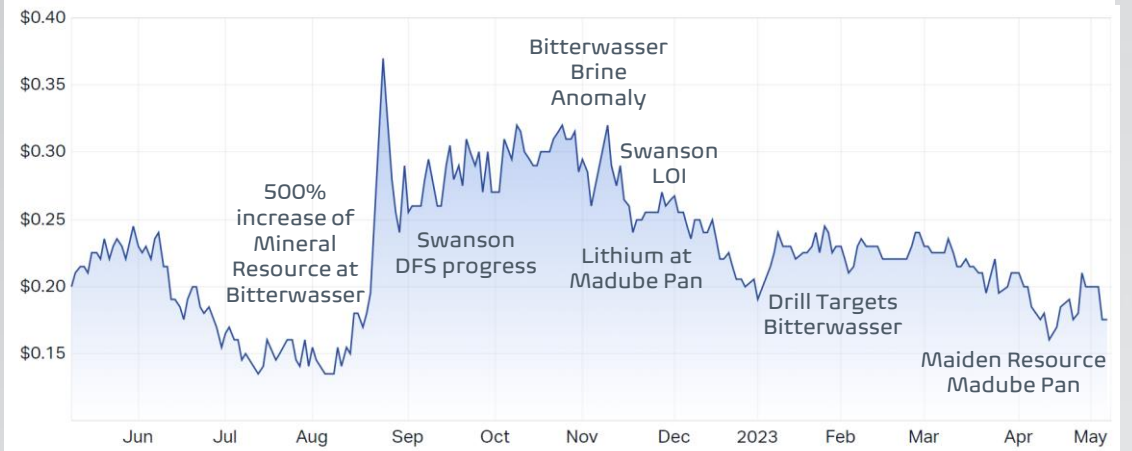


Corporate structure (ASX: AM7)

as at 9 May 2023

85,500,100 Shares in issue	99,050,100 Fully diluted
~\$14.96m Market Cap (Undiluted)	\$0.75m Cash (@ 31 March '23)
4,500,000 (1:1, 3 years, \$0.20 per share) vesting in two equal tranches at 30-Day VWAP ≥ \$0.40 and ≥ \$0.50 Options	500,000 (1:1, 3 years, \$0.20 per share) in favour of Raubex Options
11% (Directors) 76% (Top 20) Shareholders	8,550,000 Performance Shares
Au\$0.175 Share Price	Au\$0.13 – Au\$0.480 52-week range

AM7 Share Price & Volume



Top Shareholders

28% - Raubex | 14% - Management | 12.5% - RB Ltd | Other

Executive Directors & Management



Jurie Wessels	Philip Le Roux	Daniël Ellis	Lisias Pius	Dr. Ismael Kanguuehi
Executive Chairman Based in South Africa	Chief Executive Officer Based in Namibia	CFO Based in South Africa	Country Manager Based in Namibia	Geologist Based in Namibia
<p>Jurie has 26 years' experience in the exploration industry and co-founded a number of exploration and mining companies, including Bauba Resources Ltd (BAU.J), which owns two operating chrome mines, GoldStone Resources Ltd (GRL.L), which company is mining the Homase-Akrokerrri Gold Deposit in Ghana acquired and developed by GoldStone when Jurie was CEO, and Vanadium Resources Ltd that owns a tier 1 Vanadium Project undergoing fund raising for construction.</p> <p>Jurie has significant experience in the sourcing and assessment of exploration and exploitation projects and in the governance, funding and management of resource companies. He explored for various minerals in Africa, South America, the Indian sub-continent and Europe.</p>	<p>Philip has 30 years' experience in exploration, mining and economic geology, with extensive exposure in different geological terrains worldwide. He commenced his career as a Mine Geologist for Gencor Limited, then became a Mining Analyst for the Industrial Development Corporation of South Africa and operated as an independent consultant to several junior and mid-tier mining companies. Philip has progressed numerous projects from greenfields to feasibility and into production. Philip was responsible for progressing the projects that are the subject of the acquisitions by Arcadia from a technical point of view. Philip is member of the Geological Society of South Africa and registered member of Pri. Sci. Nat. (SACNASP) and holds an Honours Degree in Geology from the University of Stellenbosch.</p>	<p>Daniël is a practising Professional Accountant in Cape Town, South Africa and has 24 years' experience in the accounting industry. During the last nine years Daniël acted as accountant for a number of publicly listed companies, including AIM listed GoldStone Resources Ltd and ASX listed Vanadium Resources Ltd (ASX:VR8). Daniël holds B Acc and B Compt (Hons) degrees.</p>	<p>Lisias is an entrepreneur and businessman. He is a founding shareholder of ORP, Karibib and BME and is a Namibian resident. Lisias has business interests in farming and minerals exploration while. Lisias holds a B.Comp.Sc (Hons) Digital Forensics and B.Comp.Sc Degree in Systems Administration & Networks.</p>	<p>Ismael holds a Ph.D degree in Environmental Geochemistry from the University of Stellenbosch, having completed his Masters in Geology and B. Sc. (Hons) from the same institution. He completed his undergraduate degree from the University of Namibia, majoring in geology and environmental biology. He has vast experience in the management of base metal exploration and environmental geochemistry projects in Namibia and South Africa. Ismael is in the process of registering as a member of the Geological Society of Namibia and as a Pri. Sci. Nat. (SACNASP) geologist.</p>



Non-Executive Board



Michael Davy	Andrew Law	Johan le Roux
Independent Based in Australia	Independent Based in Australia	Non-Independent Based in South Africa
<p>Michael is an Australian Executive and Accountant with over 18 years' experience across a range of industries. Michael is currently a director and owner of numerous successful private businesses. During the past five years Michael has held directorships in several ASX listed companies and is currently the Non-Executive Chairman of Raiden Resources Limited (ASX: RDN), Non-Executive Chairman of Haranga Resources Limited (ASX: HAR) and a Non-Executive Director of Vanadium Resources Limited (ASX:VR8).</p>	<p>Andrew is a Mining Engineer with over 35 years' experience. He has extensive technical and management experience ranging from deep level underground mining environments to large open pit environments. Andrew fulfilled executive roles at Anglo American, Plutonic Resources, Downer Group, Placer Dome, Mundo Minerals and Optiro Limited. Until recently, Andrew was the Executive Director – Projects at Relentless Resources Limited.</p>	<p>Johan is a business development executive with an accounting background. For the past 12 years, he has been the Business Development Manager of SPH Kundalila (Pty) Ltd, a leading mining services provider that is a wholly owned subsidiary of JSE-listed Raubex Group Limited. Johan holds a Bachelor of Commerce degree from Stellenbosch University and a Master of Business Administration from the University of Stellenbosch Business School.</p>



Bitterwasser



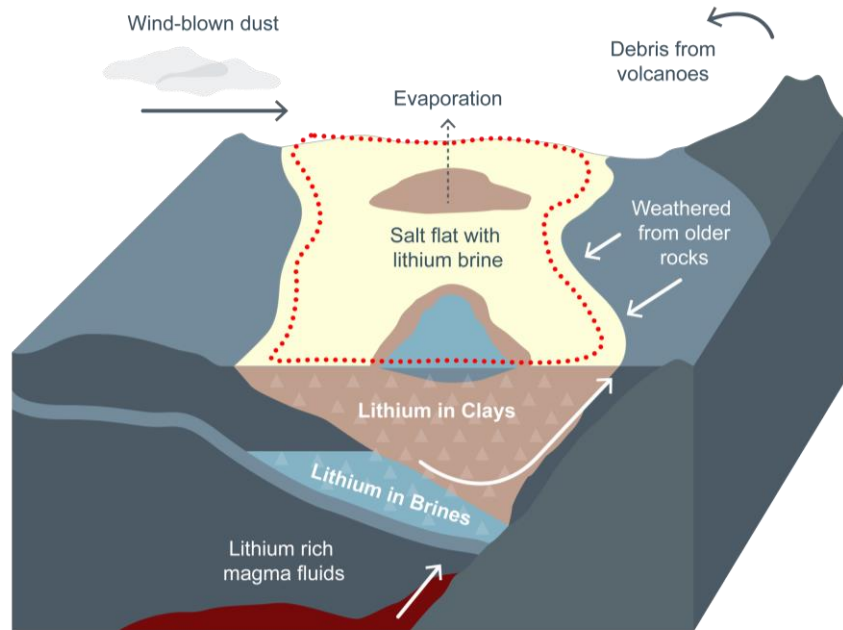
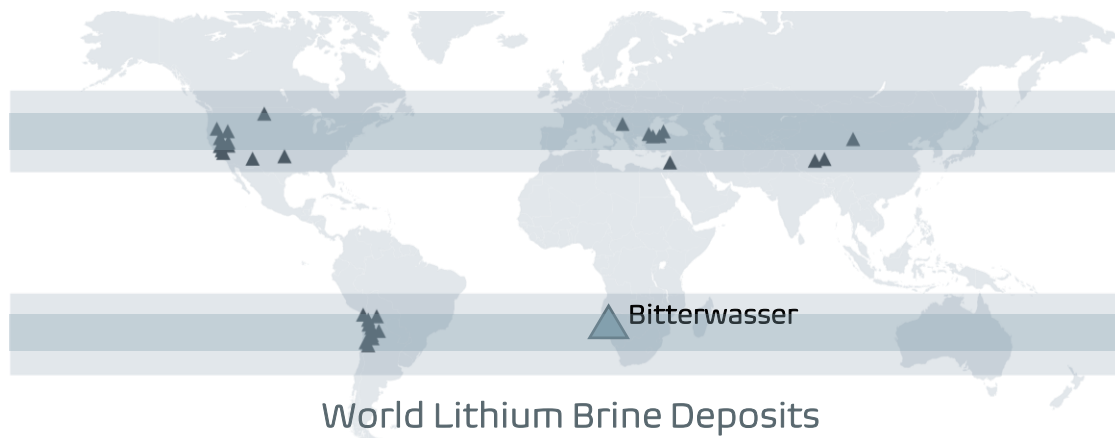


Figure: Schematic artist impression of an inferred model of the Bitterwasser Basin



FIRST ORDER REQUIREMENTS FOR LITHIUM BRINE DEPOSITS

Old, Deep, Closed-Basin and Aquifers



Lithium Clay Deposits



Lithium Sourced from Basement Rocks and Geothermal Activity



Arid Climate in the "Lithium-Latitudes"

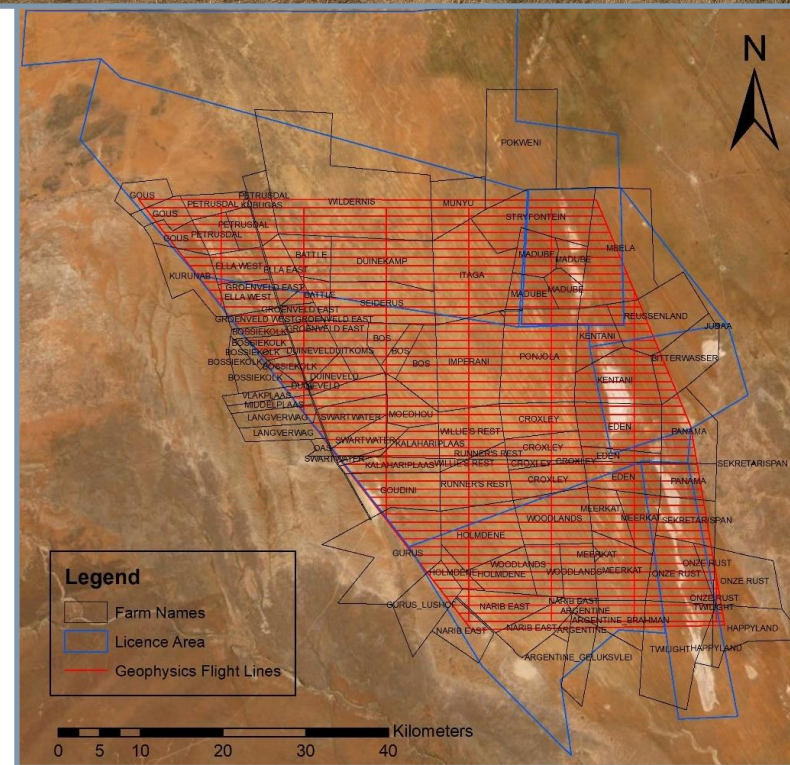
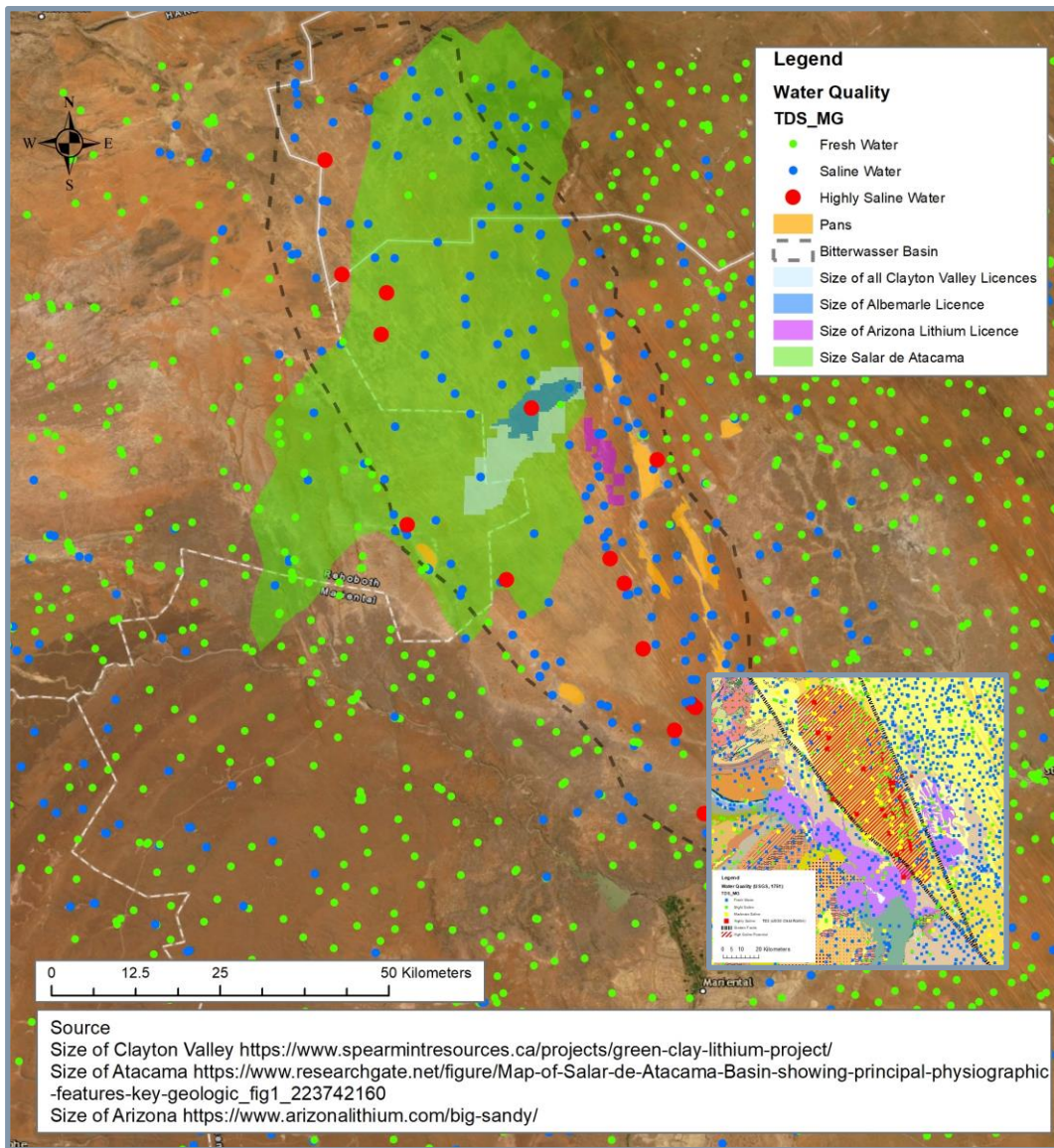


Saline water with high Boron and Potassium content



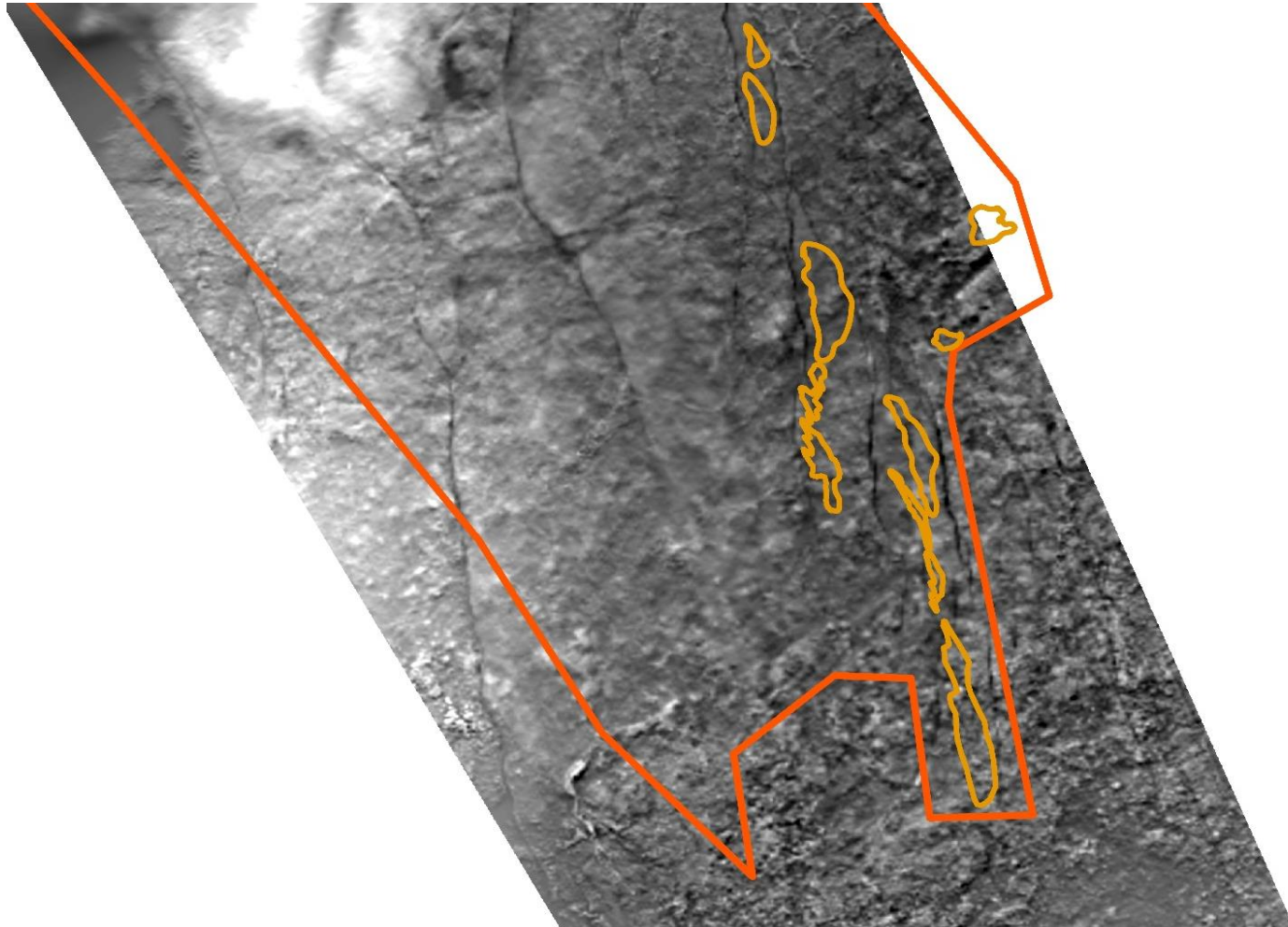
Lithium Brine Deposits (grades outstanding)



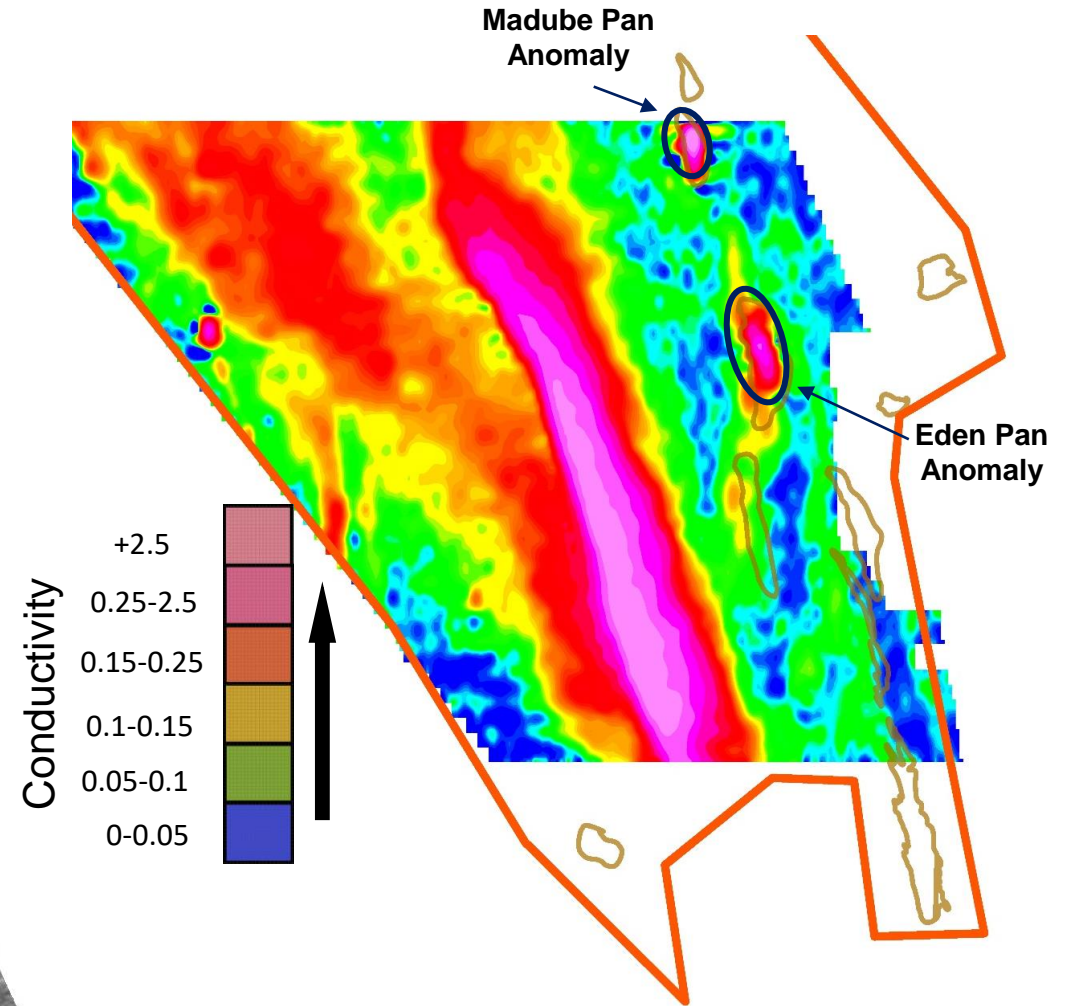


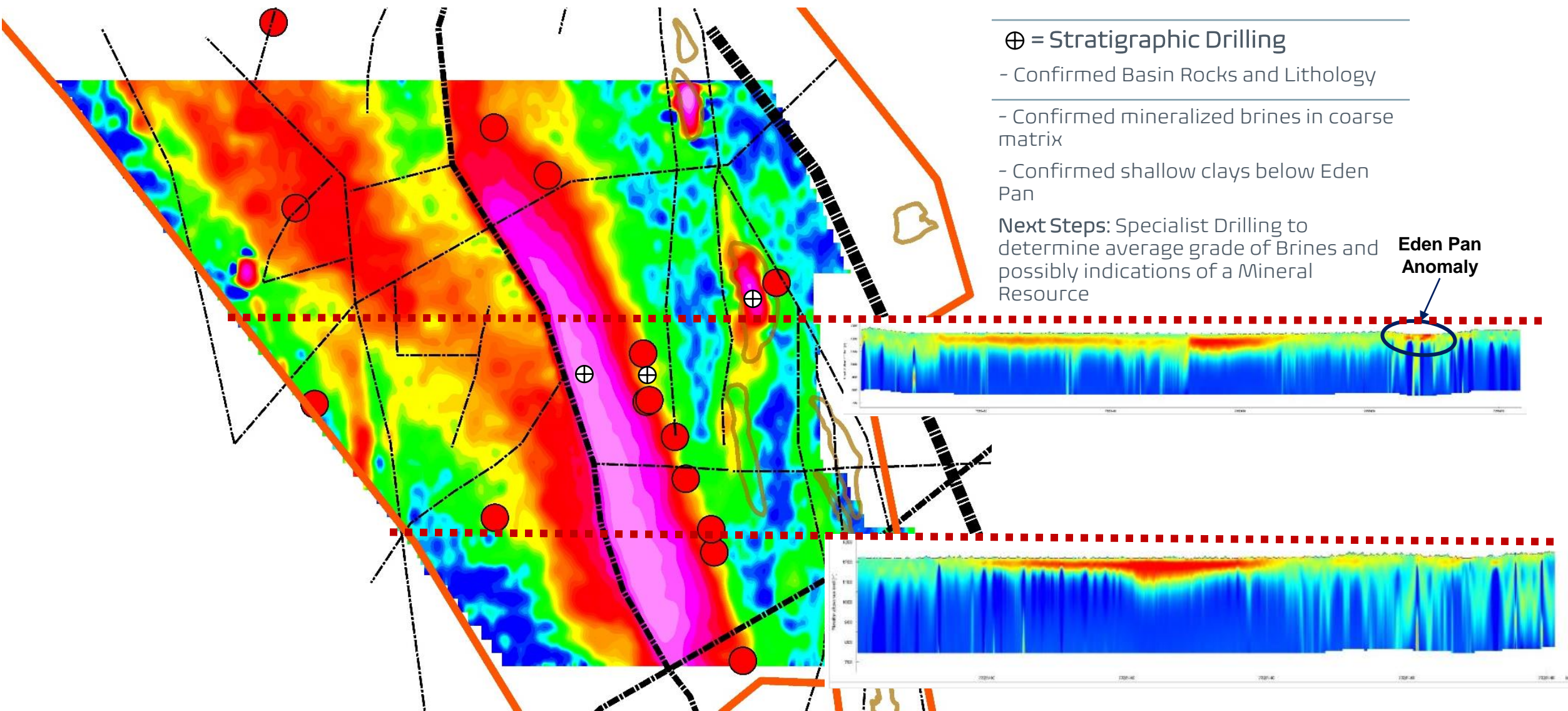


Magnetic Survey



TDM Survey





⊕ = Stratigraphic Drilling

- Confirmed Basin Rocks and Lithology

- Confirmed mineralized brines in coarse matrix

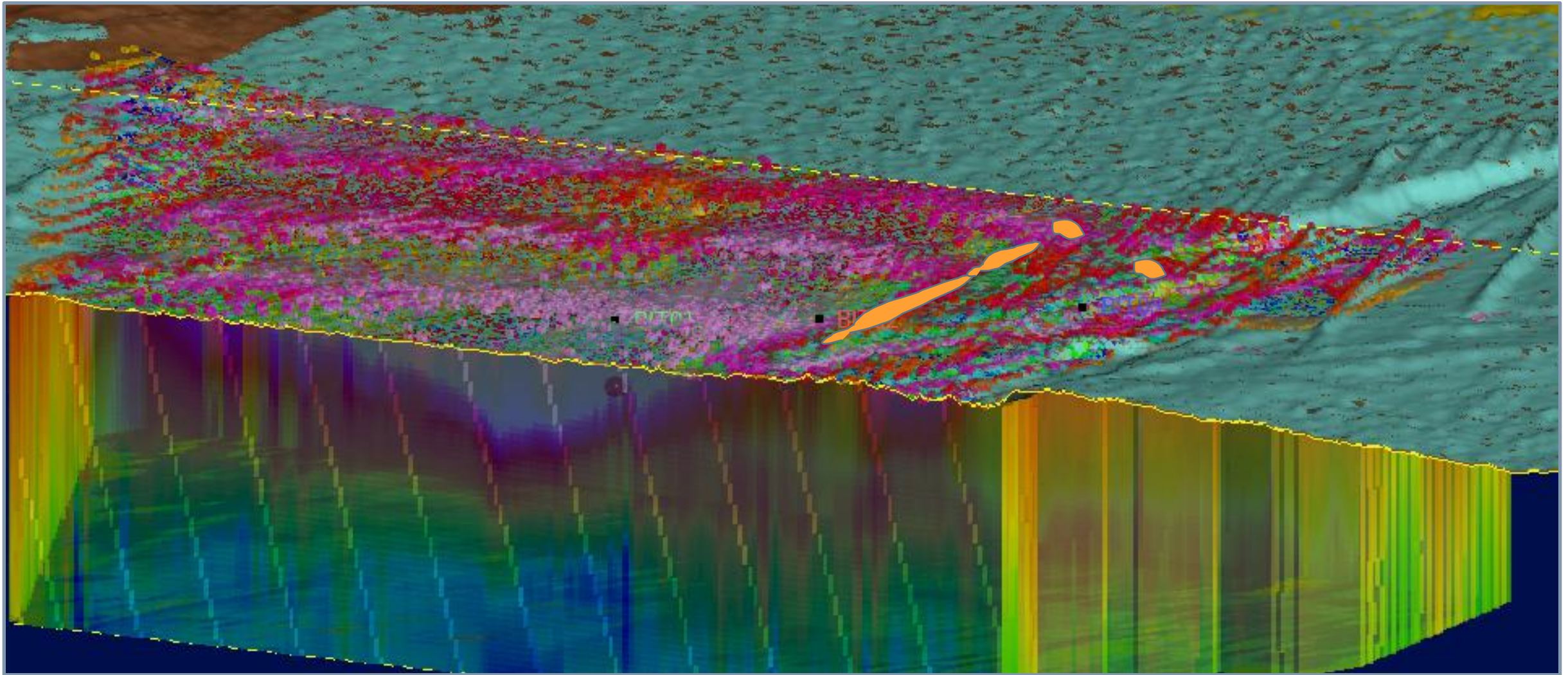
- Confirmed shallow clays below Eden Pan

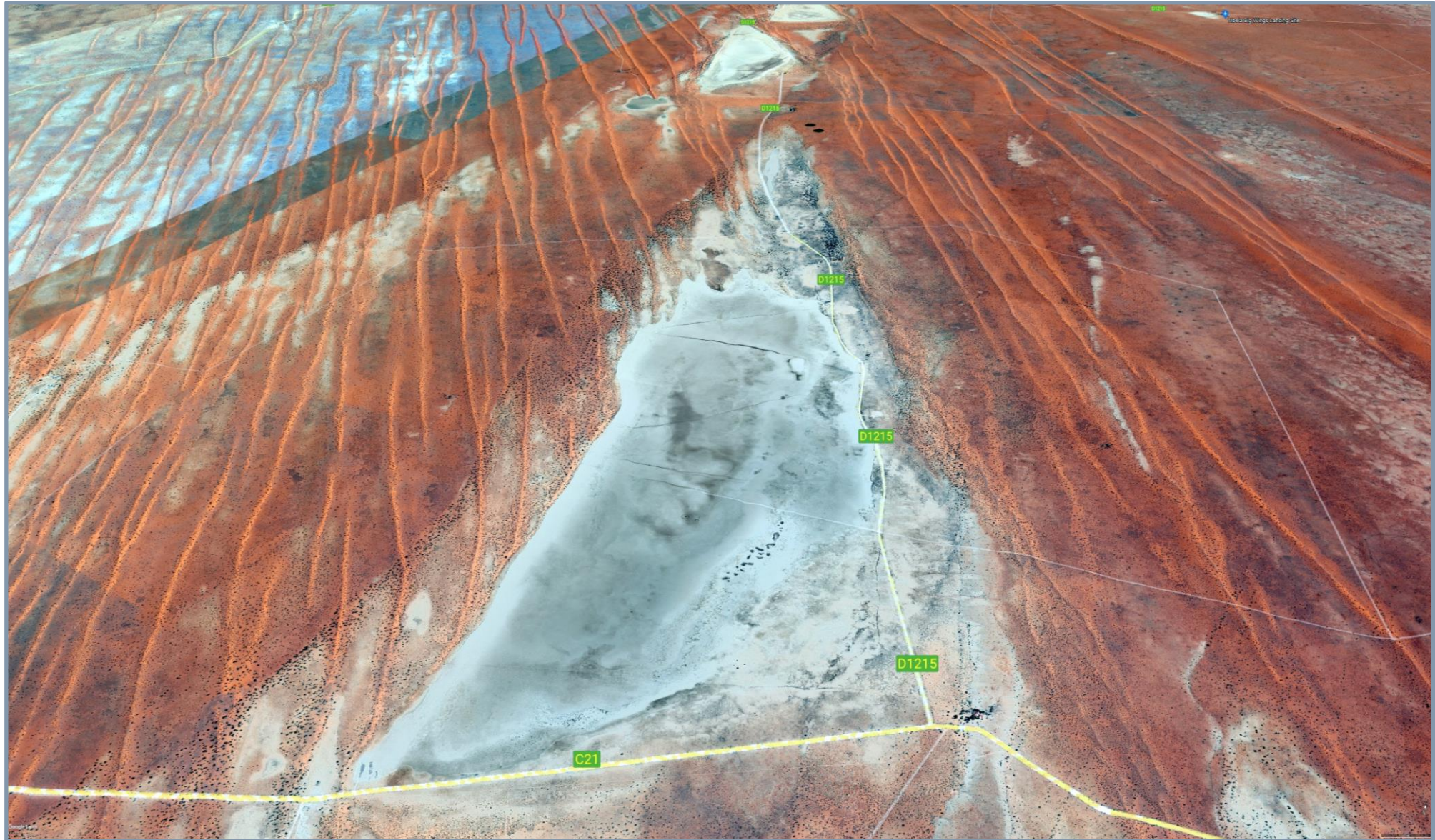
Next Steps: Specialist Drilling to determine average grade of Brines and possibly indications of a Mineral Resource

Eden Pan Anomaly



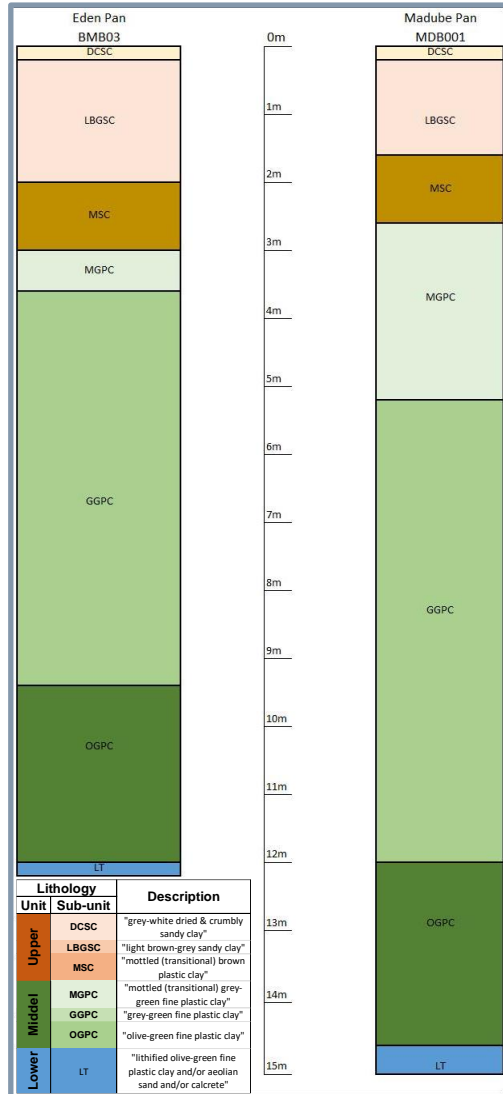
Bitterwasser Lithium in Brines







Madube / Eden Pans Stratigraphy compared



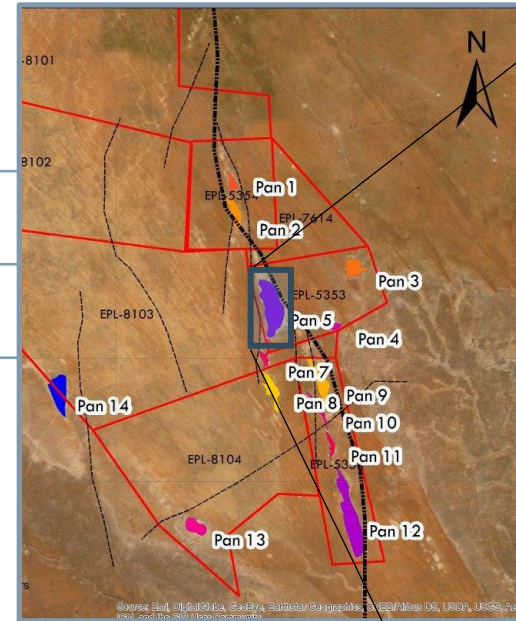
GROWING Li-Clay MINERAL RESOURCE

Five Pan districts in Southern Africa Investigated

Pan 2 and Pan 5: Mineral Resource Declared

Pan 1: Stryfontein Pan is Mineralised at surface

Further Drilling to Occur at other pans to possibly increase Li-Clay Mineral Resource



Pan 5 - Eden Pan: Mineral Resource of 287 kt of LCE

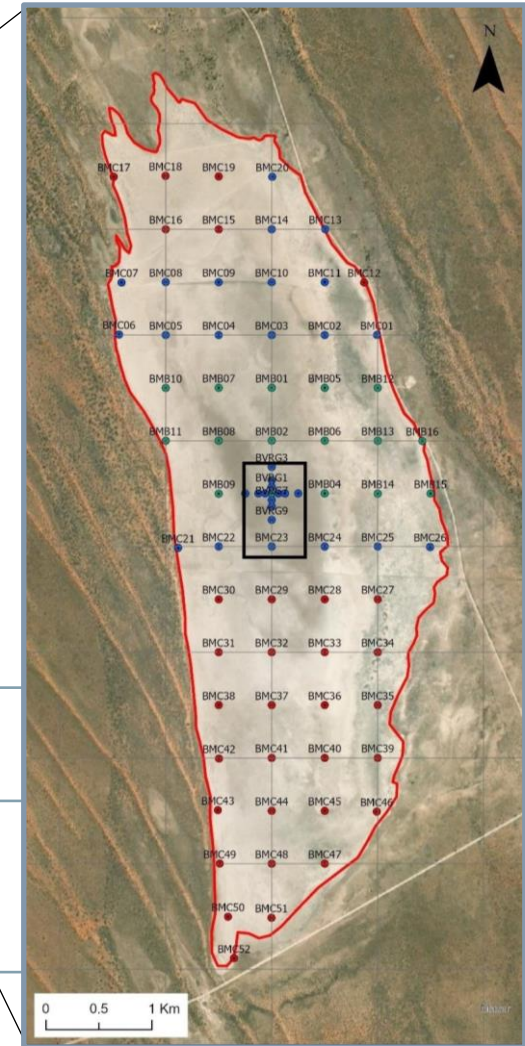
Pan 2 - Madube Pan: Mineral Resource of 40,3k tons of LCE

Eden Pan: Mineralisation from Surface to c.12m with Middle Green Clay Unit (MU) as Dominant Lithological Unit

Madube Pan: Mineralisation from Surface to c.18m with Middle Green Clay Unit (MU) as Dominant Lithological Unit

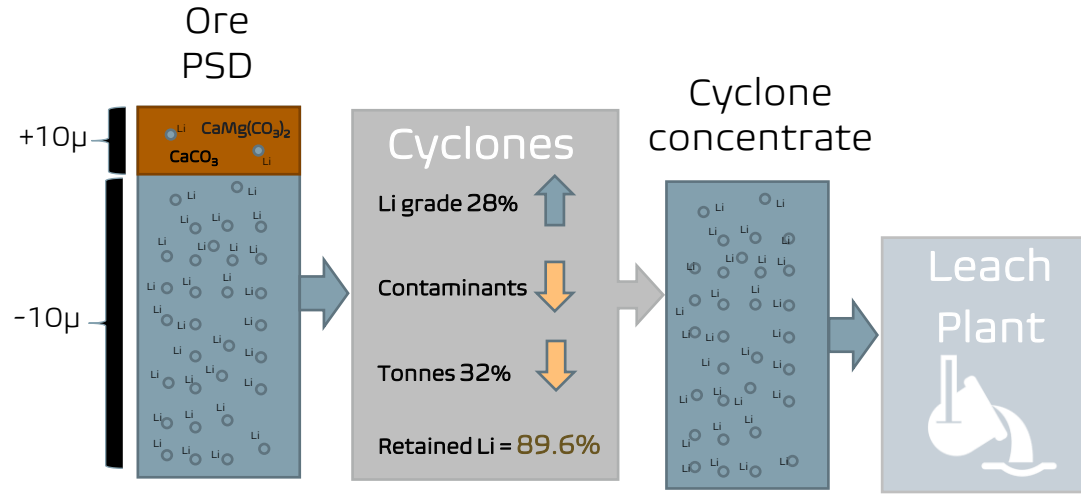
Overall Mineral Resources at Clay Project (Eden and Madube)

327,284 LCE tons (sufficient for 5.5 million EV's)





METALLURGY & PROCESSING



Conductive Clays for Extraction (Montmorillonite)



+80% Recoveries Using Organic Acid & +90% using Sulphuric Acid

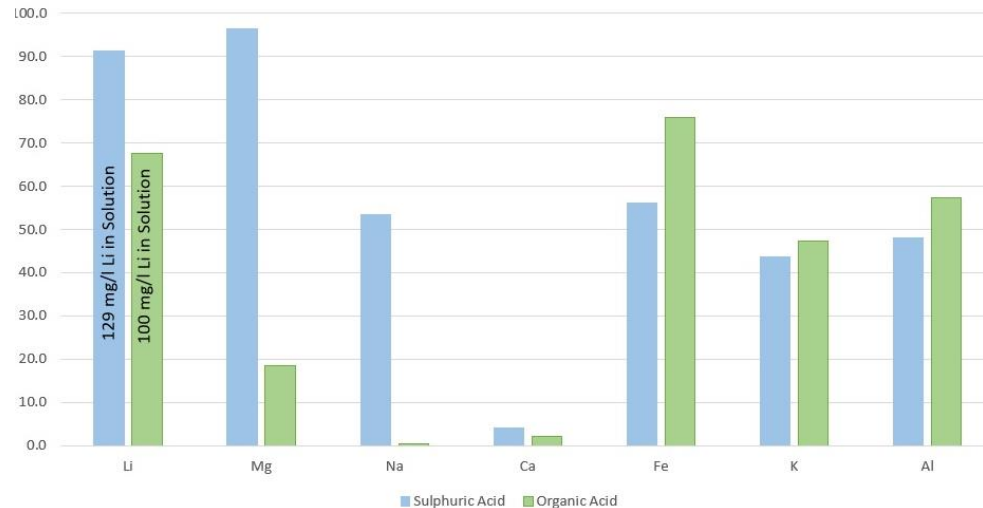


+85 % Li <10µ particles, 78 % ore <10µ Result: grade 28% ↑ @ 89.6% recovery



Organic Acid recovers only 10%-20% of Contaminants (Mg and Ca)

Bench Leach Test Results @ 6 Hours and 60 Degrees Celsius





	ARCADIA (ASX: AM7)	NORAM LITHIUM (NRM.CVE)^	CENTURY LITHIUM (CYP.CVE)^	BRADDA HEAD (BHL.LON)^^	ARIZONA LITHIUM (ASX: AZL)
Resource in tonnes	85.2 Mt	363Mt	1,304Mt	42,6Mt	32,5Mt
Resource Classification	Inferred	Meas. and Ind.	Indicated	Inferred	Indicated and Inferred
Cut-off	500ppm	400ppm	400ppm	400ppm	800ppm
Stage of Development	Resource	Pre-PEA	PFS	-	Resource Expansion
Average. Grade	633ppm	923ppm	904ppm	818ppm	1850ppm
Att. Interest	50%	100%	100%	Unknown	Unknown
Market Cap (as at 14 October 2022) ^CAD/AUD: 1.16 ^^GBP/AUD: 1.8	Au\$24.8M	Au\$49.41M	Au\$207.61M	Au\$60.8M	Au\$185.6M
Tenement Package	403,100 Ha	1,133 Ha	2,197 Ha	4,200 Ha	2,500 Ha
Brine Potential	To be determined	1.6km from Albermarle Corp's Silver Peak Brine operations.	Next to Pure Energy and Albermarle Lithium-in-Brine operations	To be determined	To be determined

The above table compares companies focussed on lithium exploration and compares companies with Mineral Resources at different stages of exploration development and diverse Mineral Resource classifications reported under distinct Mineral Resource Reporting Codes. The information tabled regarding to Mineral Resource tonnes, Classification, Cut-Off, Stage of Development, Av. Grade, Att. Interest, Tenement size and potential for Lithium Brine Mineralisation have been gleaned from the most recent public information available from the peers the Company compares itself. The following public information is referenced:

Arizona Lithium: <https://www.arizonalithium.com/big-sandy/>
 Braddahead: <https://www.braddaheadltd.com/projects/arizona-clays/>
 Cypress Development: <https://cypressdevelopmentcorp.com/projects/nevada/technical-reports/>
 Noram Lithium: <https://noramlithiumcorp.com/resource/clayton-valley/>



HIGHLIGHTS

+200 pegmatites mapped on 3 EPL's owned by Arcadia

Mining License, ECC, Land Use, Water Supply and Electricity Secured

Hebei Transaction: Fund MGS Plant to min. specs signed off by independent engineers and spend a min. of US\$7M in return for 38% in Swanson

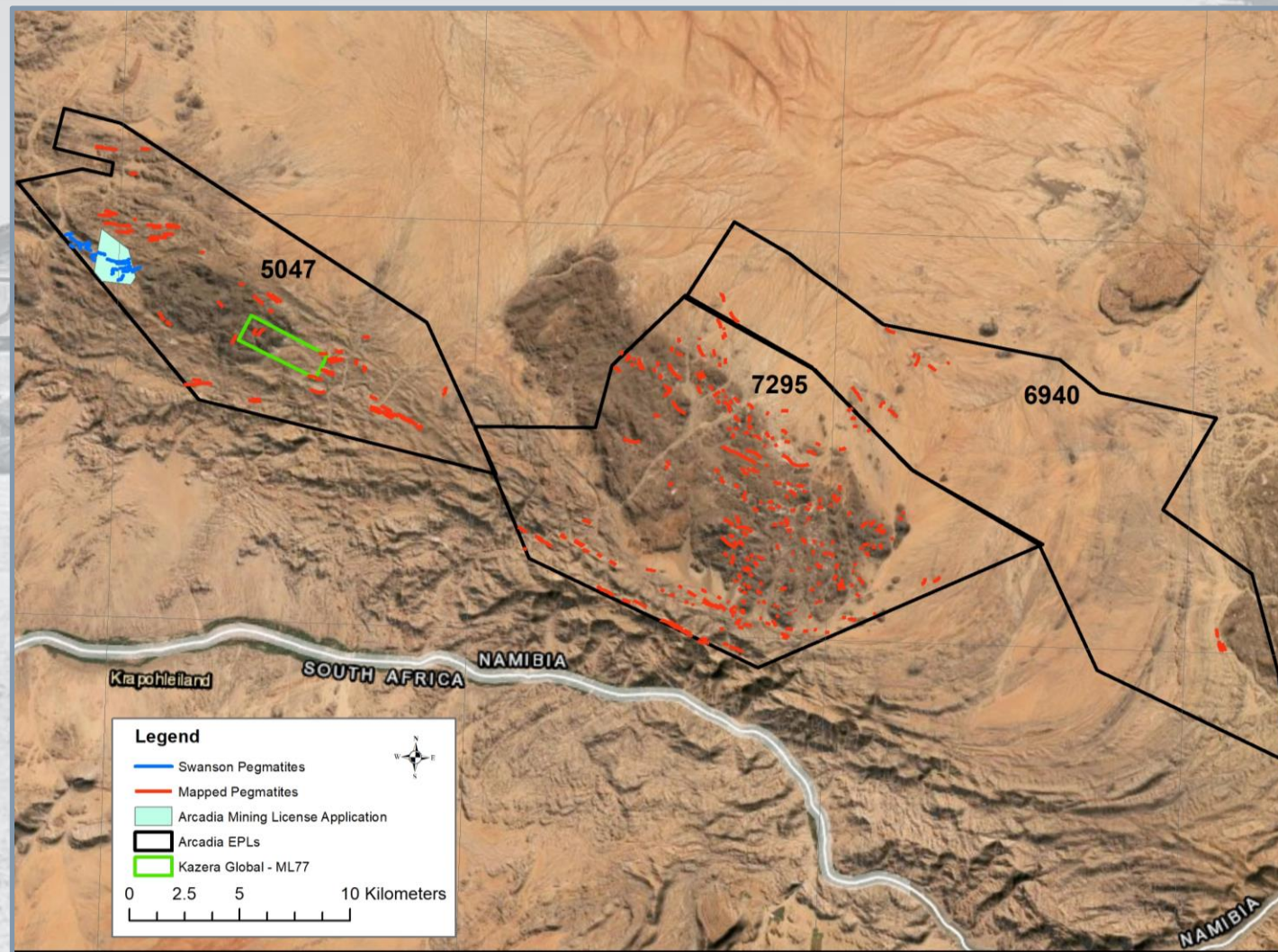
Swanson Pegmatites Gently Dipping (Opencast Potential)

Only 15 of +200 Pegmatites Explored

10 Pegmatites Drilled (at Swanson) for Mineral Resource of 2,582Mt @ 486ppm
DFS Completed

Tantalite: Semi-conductors, Capacitors, Turbine Blades, Medical Prostheses

Ta₂O₅ Price: USD233/Kg
(Source: Fastmarkets, 25-08-2022)



Swanson Feasibility Results



Au\$ **3.2M**
Attributable* Free
Cash Flows p.a.



Au\$ **7.6M**
Attributable*
NPV_{8%}



Au\$ **24M**
Attributable* LOM
EBITDA



Au\$ **6.4M**
Project Free
Cash Flows p.a.



Au\$ **15.4M**
Project
NPV_{8%}



Au\$ **48.4 M**
LOM EBITDA



8 Years
Life of Mine



3.2 Years
Payback

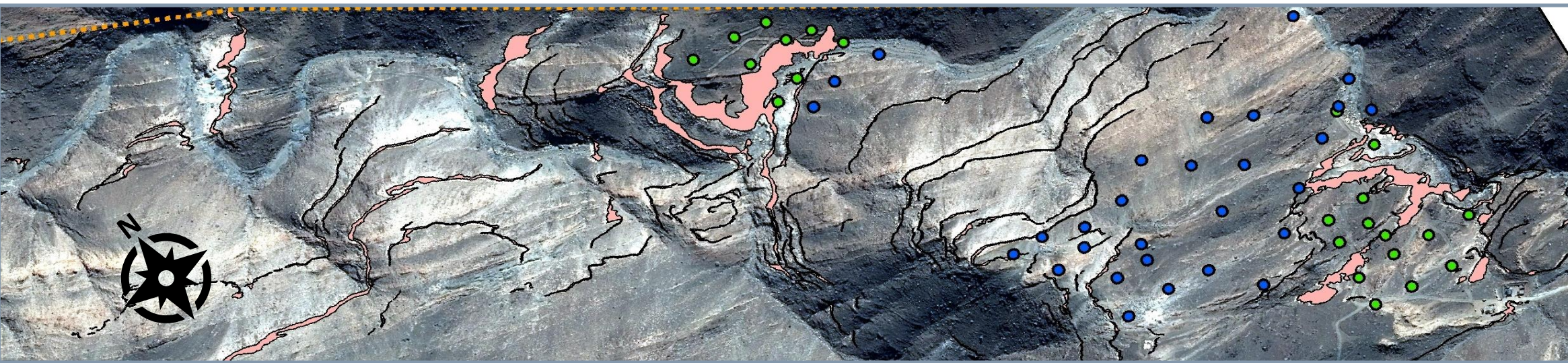
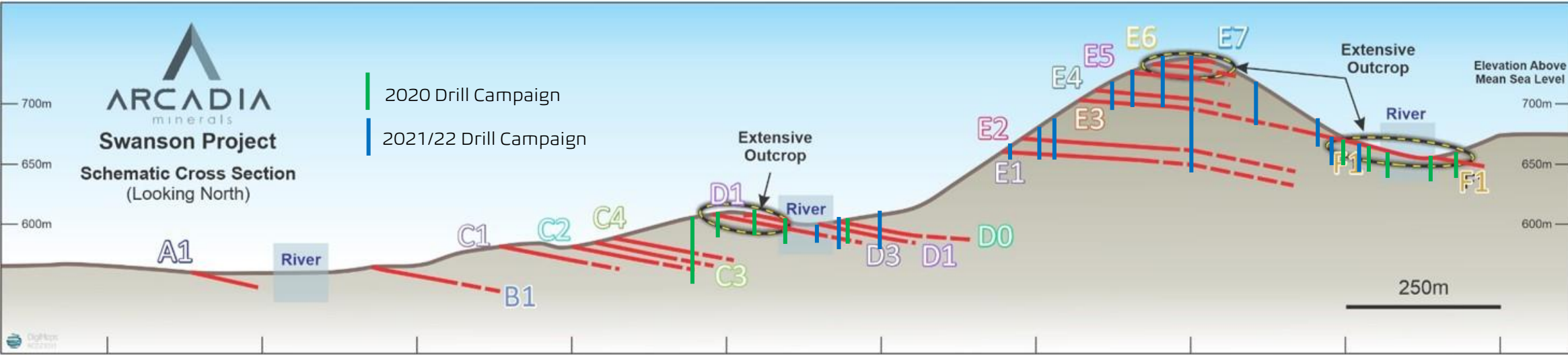


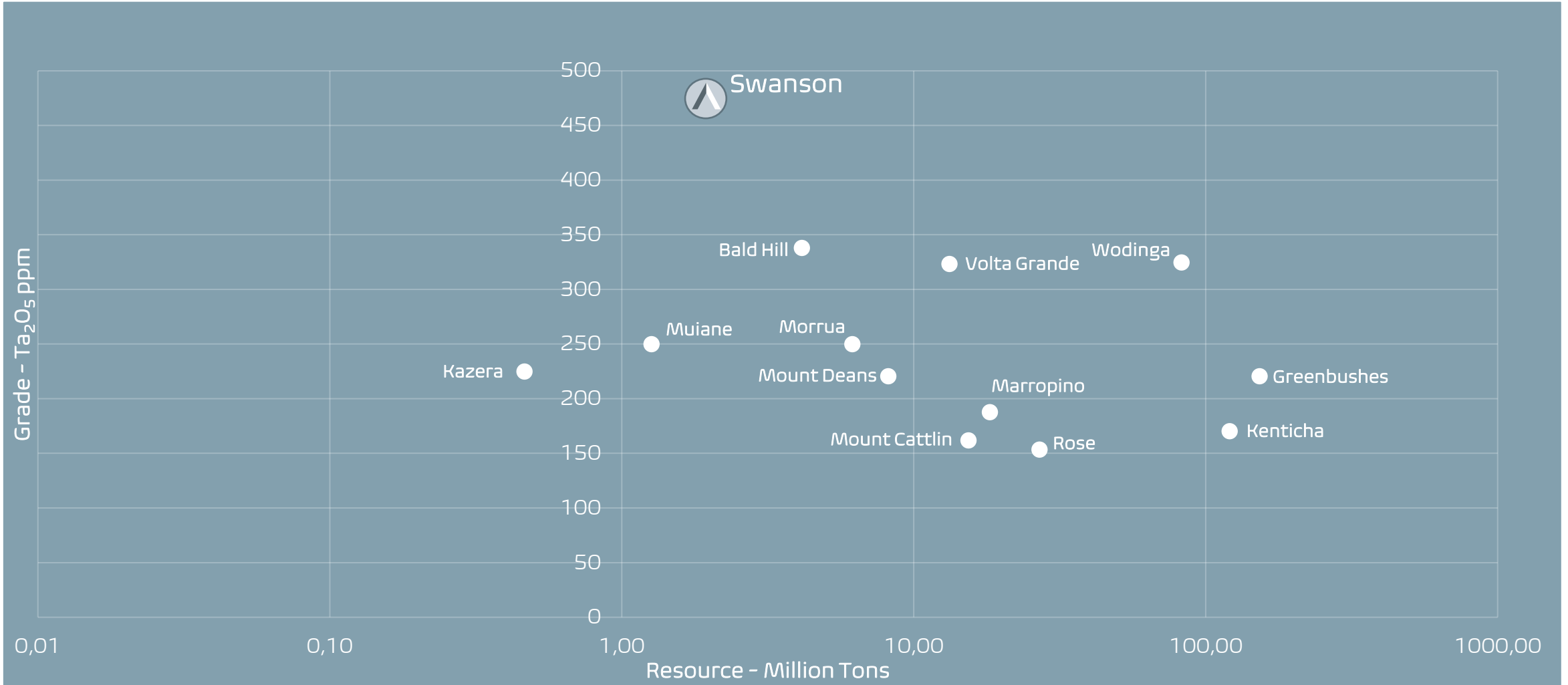
25.4 %
IRR (Post Tax)



Au\$ **14,8M**
Capex

Swanson Long Section

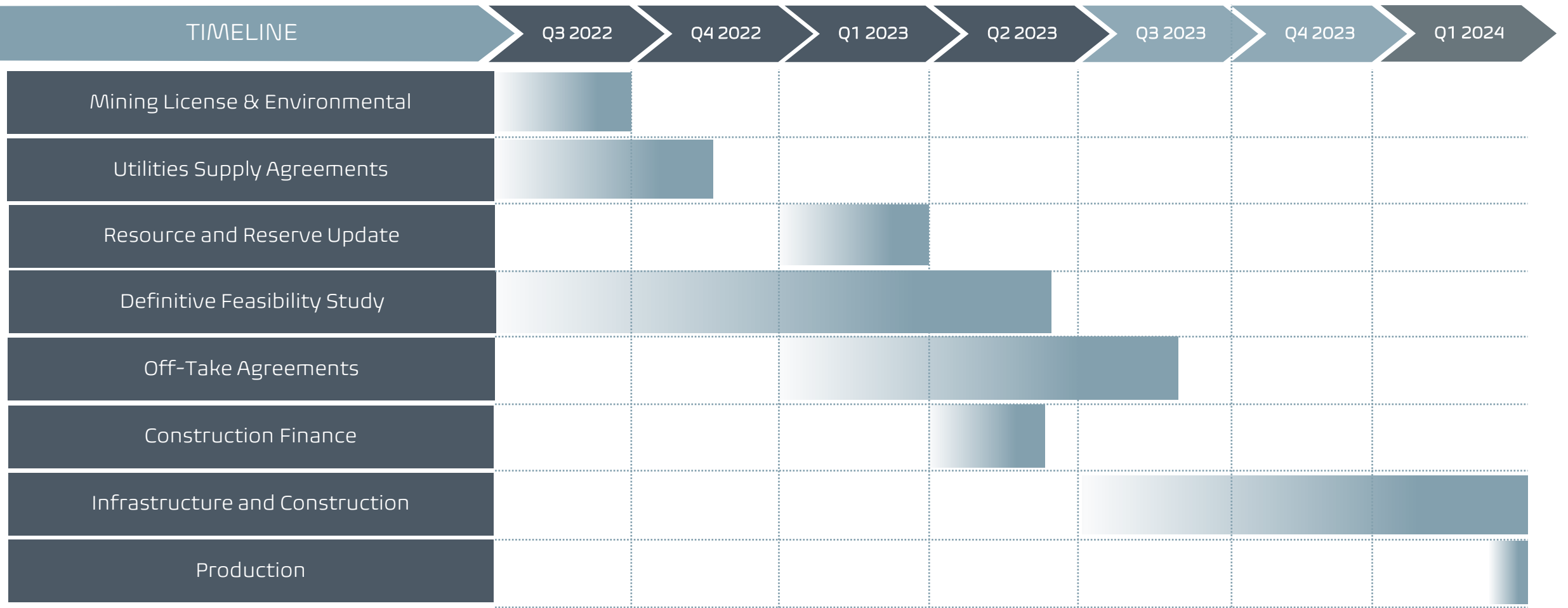




Sources and cautionary note: The above chart compares global Tantalum Mineral Resources and in situ grades reported in different Mineral Resource categories under differing codes, and references projects at varying stages of development, some of which are in production and/or don't primarily focus on Tantalum production but as a by-product of commercial value at varying quality and product grades. Information of Mineral Resources with a quoted Tantalum in situ grade derived from public information have been used and all relevant information to enable an informed and balanced view is referenced in the annexure titled "Ta₂O₅ Peer Comparison Table".



Planned Milestones and Expected Material Events





Two under-explored layered mafic complexes has been identified by the mineral systems investigation



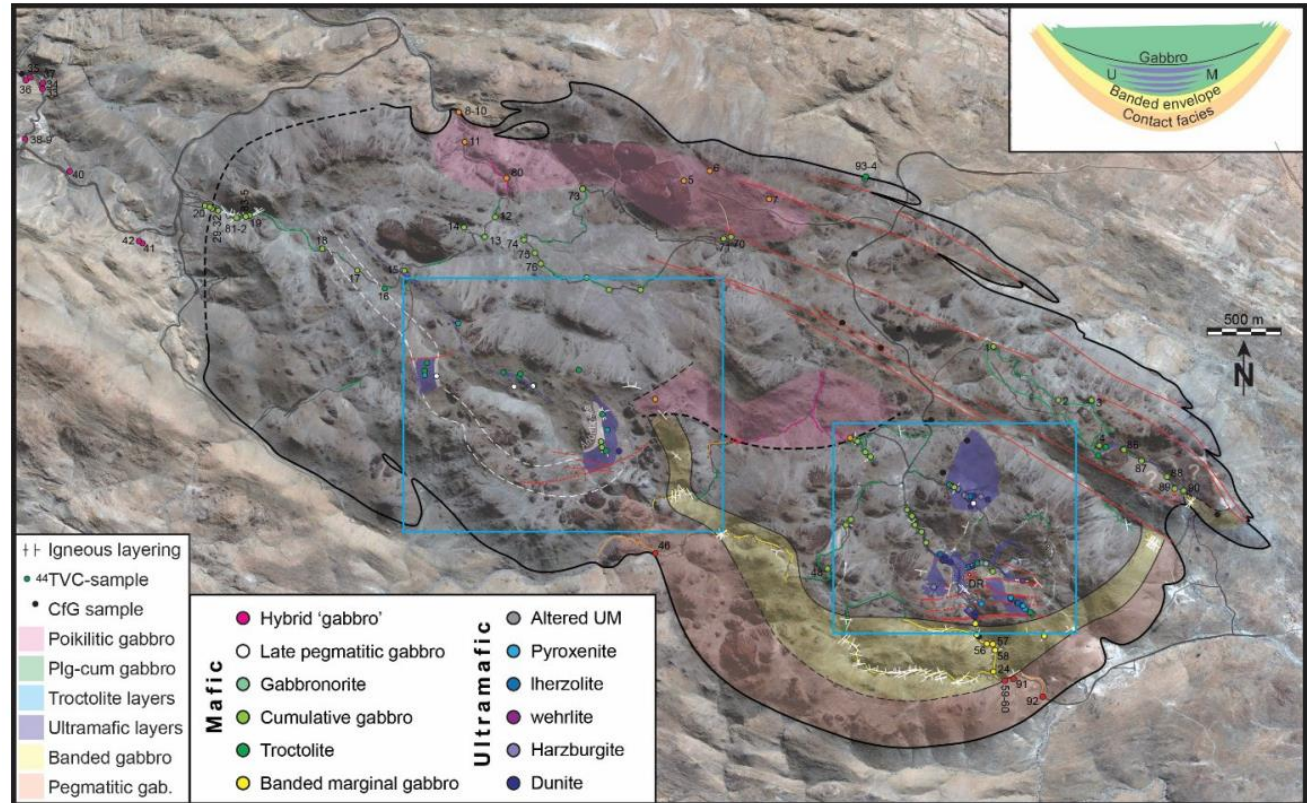
Best historical (1972-'76) intersections
 16m @ 0.65% Ni & 0.16% Cu
 6m @ 0.61% Ni & 0.3% Cu



Historical results untested for PGE's
 Sample analysis confirms PGE presence.
 Likely a Polymetallic Deposit (Ni, Cu, Au and PGE's)



Analyses of Historical Core
 Best results:
 0.28% Cu, 0.71% Ni, 0.84 g/t Pd, 0.4 g/t Pt
 0.3% Cu, 0.58% Ni, 0.69 g/t Pd, 0.31 g/t Pt. 0.26 g/t Au.



"The presence of primary magmatic sulphides within the mineralised pyroxenite emphasises that sulphide immiscibility has occurred somewhere within the stratigraphy of the TVC and that a stratiform Ni-Cu-PGE disseminated sulphide 'reef' horizon could exist somewhere in the TVC." Geological Overview and Sulphide Mineralisation Potential of the Tantalite Valley Complex. Report by Martin Klausen, Bjorn von der Heyden, Daniel Ferreira of the University of Stellenbosch



Known Deposits in the Karibib Gold Field

Navachab Mine – 8 Moz Au

Twin Hills Project- +2 Moz Au

Prospectivity - 25km x 2km metasedimentary structure defined

Similar geology to Navachab and Twin Hills

Historical small-scale mines at extremities of 25km Geophysical Feature

Two types of Mineralization

Skarn-type mineralization (44 grab samples over 20km)

Av. 4.32 % Cu (highest 28.40% Cu), Av. 1.49 g/t Au (highest 7.65 g/t Au)

Vein-type mineralization (13 grab samples over 20km)

Av. 1.94% Cu (highest 5.69% Cu), Av.2.06 g/t Au (highest 26.30 g/t Au)

Initial drilling program completed

KRC03 from 24m to 28m, width of 4m @ 1.35% Cu & 0.68 g/t Au

KRC08 from 9 to 13 m, width of 4m @ 1.98% Cu & 0.92g/t Au & 0.72% W



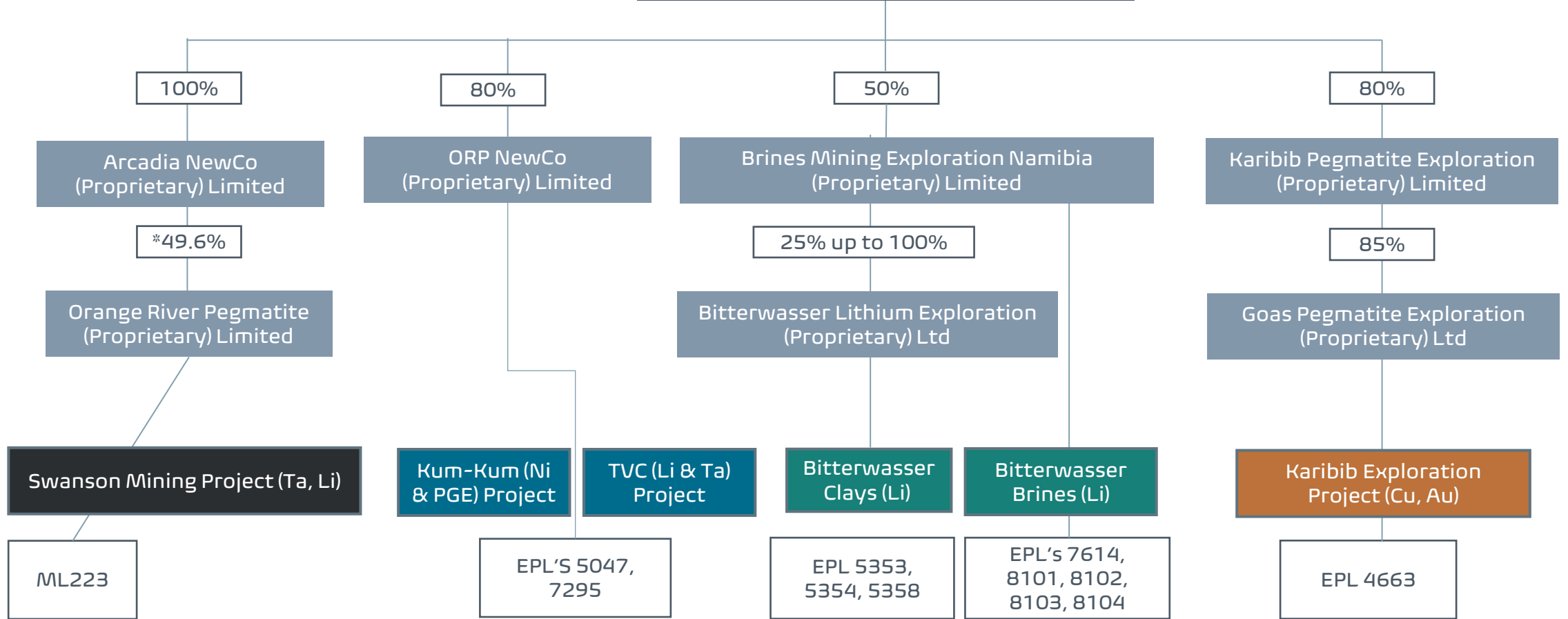


Additional Material

Corporate Structure



Arcadia Minerals Limited



Note *: Upon completion of Hebei Transaction.

Ta₂O₅ Peer Comparison Table



Company	Deposit	Primary Element	Resource Category	Development Stage	Resource Mt	Ta2O5 ppm	Information Source
Arcadia Minerals Limited	Swanson	Tantalum	Indicated & Inferred	Exploration	2.584	486	https://www.arcdiaminerals.global/wp-content/uploads/2022/02/61077892.pdf
Alliance Mineral Assets	Bald Hill	Lithium	Measured & Indicated	Production	4.40	336	https://www.boadicea.net.au/projects/eastern-goldfields/bald-hill-projects/
Global Advanced Metals	Wodgina	Lithium	Measured & Indicated	Production	86.50	320	http://clients3.weblink.com.au/pdf/MIN/02037855.pdf
Advanced Metallurgical Group	Volta Grande	Tantalum	Measured & Indicated	Production	14.7	318	https://amg-nv.com/news/amg-advanced-metallurgical-group-n-v-announces-tantalum-mineral-resources-update-volte-grande-mine/
Noventa	Morrua	Tantalum	Measured & Indicated	Production	7.77	248	https://www.investigate.co.uk/ArticlePrint.aspx?id=201010190700115939U
Global Advanced Metals	Greenbushes	Lithium	Measured & Indicated	Production	135.10	220	https://www.igo.com.au/site/PDF/4c55e99a-9216-420d-8223-3fb28e838ff2/IGOinvestsinGlobalLithiumJVwithTianqi
Aruma Resources Limited	Mount Deans	Lithium	Indicated & Inferred	Exploration	9.10	220	https://www.arumaresources.com/wp-content/uploads/2021/08/Update-on-Plans-for-Drilling-at-Mt-Deans-Lithium-Project.pdf
Kazera Resources	Kazera	Tantalum	Indicated & Inferred	Restarting	0.62	219	https://kazeraglobal.com/investments/tantalite-valley-drilling-reports/
Noventa	Marropino	Tantalum	Measured & Indicated	Production	21.70	190	https://www2.deloitte.com/content/dam/Deloitte/za/Documents/energy-resources/ZA_Mozambican_Cue_Card_221015.pdf
Ethiopian Mineral Petroleum and Bio-fuel Corporation	Kenticha	Tantalum	Reserve	Care & Maintenance	116.40	170	https://medcraveonline.com/MSEIJ/MSEIJ-02-00076.pdf
Galaxy Resources	Mount Cattlin	Lithium	Measured & Indicated	Production	17.16	155	https://wcsecure.weblink.com.au/pdf/GXY/02381236.pdf
Critical Metals	Rose	Lithium	Indicated & Inferred	Pre-Feasibility	31.90	148	https://www.cecorp.ca/wp-content/uploads/2020-05-11-news-release-CRE.pdf





Swanson Tantalum Project

Classification	Pegmatite	Mass (kt)	Ta ₂ O ₅ ppm	Nb ₂ O ₅ ppm	Li ₂ O %	Ta ₂ O ₅ tonnes
Indicated	Total D	568	365	87	0.270	207
	Total EF	577	578	65	0.070	334
	Subtotal	1,145	472	76	0.169	541
Inferred	Total D	444	365	79	0.340	162
	Total EF	995	557	69	0.050	554
	Subtotal	1,439	498	72	0.139	716
TOTAL		2,584				
Comparison to September 2021						
Indicated Sept 2021	Total	664	431	76	0.280	286
Inferred Sept 2021	Total	544	389	75	0.300	212

Bitterwasser Lithium Clay Project

Stratigraphic Unit	Tonnes	Average Value		Material Content	
		Li (ppm)	K%	Li (t)	LCE (t)
Upper	28 192 877	557	1.54	15 699	83 566
Middle	70 672 141	648	1.78	45 786	243 719
Total	98 865 018	622	1.71	61 485	327 285

The Company confirms it is not aware of any new information or data that materially affects the information included in the Mineral Resource estimates of the Swanson and Bitterwasser Projects and all material assumptions and technical parameters underpinning the estimate continue to apply and have not materially changed when referring to its resource announcements respectively made on 23 September 2021, 3 November 2021, and the updated Mineral Resource Statement for the Swanson Project in May 2022. The Company also confirms that the form and context in which a Competent Person's findings are presented have not been materially modified from the original market announcements.

PHOTO GALLERY – Swanson Tantalite and Nickel Project



PHOTO GALLERY – Bitterwasser Lithium Clay Project





PHOTO GALLERY – Karibib Copper & Gold Project



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