



Corporate Presentation

February 2025
Mining Indaba

arcadiaminerals.global

ASX: AM7

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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, 11 October 2022, 20 November 2023, 5 February 2024 and 31 October 2024, 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

There is a low level of geological confidence associated with the inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resources or that production target itself will be realised,





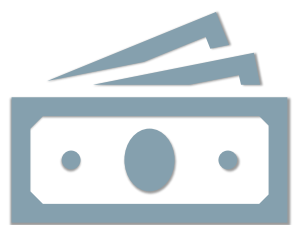
Executive Summary





1. Highly Prospective Namibian Exploration Assets

- ✓ Assets with **significant upside potential**, positioned in regions with **recent discoveries and corporate activity** (including acquisitions).
- ✓ **Multiple strategic JV discussions** currently underway could potentially enhance **funding and technical capabilities** to advance exploration.



2. Advanced Asset With Near-Term Cashflow Potential

- ✓ Swanson Tantalum Mine is at an **advanced stage of development** and is expected to be **strongly cashflow positive**.*
- ✓ Significant potential to **increase mine life and throughput rates** beyond the DFS with additional regional exploration of **~200 known pegmatites**.*



3. Strategic & High Growth Project Portfolio

- ✓ Exposure to an **array of future-facing critical and strategic minerals** with **high-growth potential**.
- ✓ Diversified asset base provides **flexibility** to allocate capital to **in-trend commodities**.

*Based on current spot prices for tantalum and lithium, as well as the projected performance of the mine according to the findings of the Definitive Feasibility Study (refer to the ASX release titled "DFS Confirms Swanson Project Significant Cash Generator" dated 31 May 2023). The Company's expectations are contingent upon successful financing for the Swanson Project.

Highly Prospective & Valuable Suite of Projects



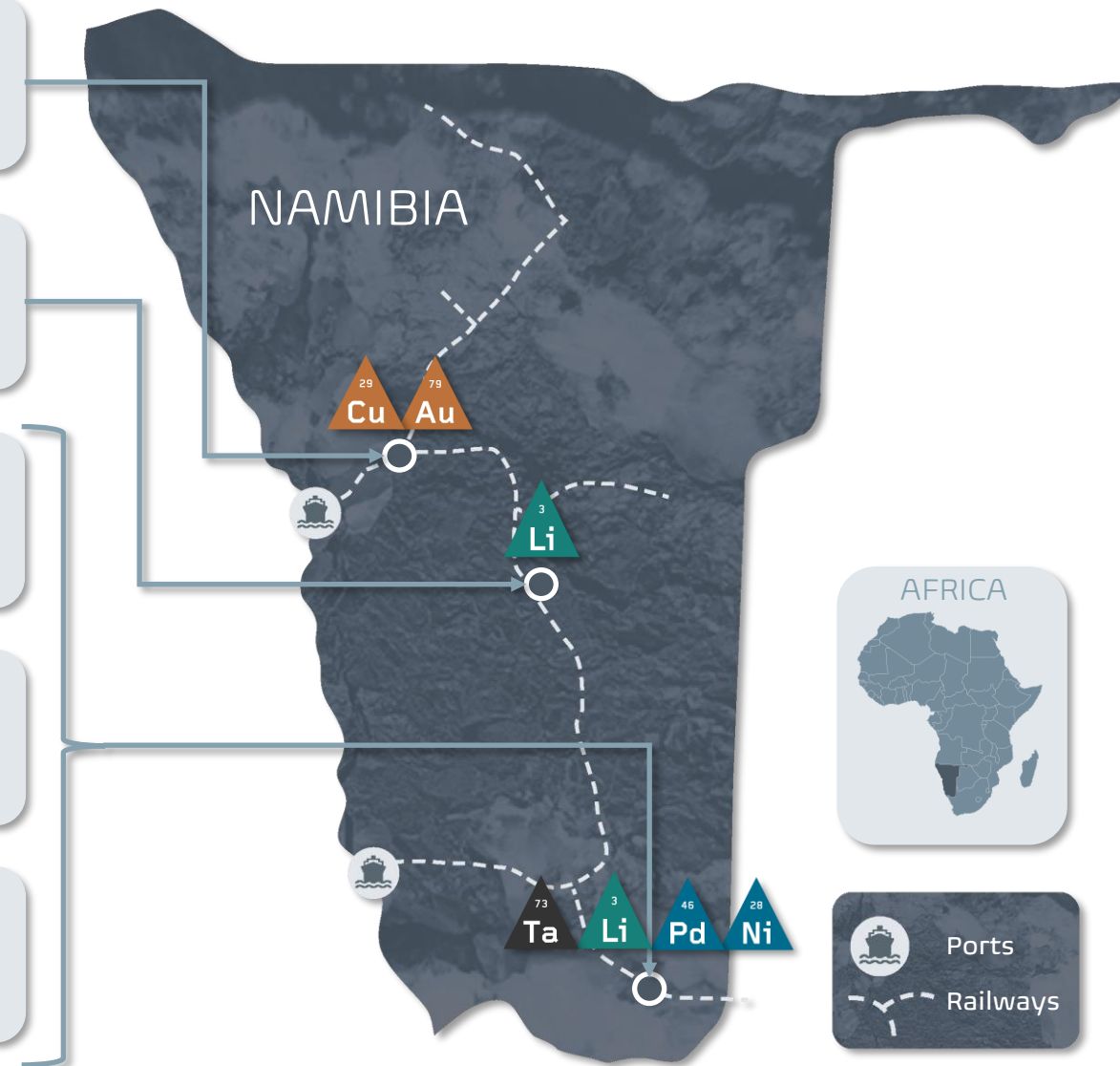
Karibib Project | 68% effective interest | Copper, Gold
Contains a 25km x 2km structural feature with mineralisation.
Located within geological setting similar to **Twin Hills** (acquired by Yintai Gold for ~US\$272m*), the **Navachab Gold Mine** and the **Kokoseb Gold Project**.

Bitterwasser Projects | 50% effective interest | Lithium
Lithium-in-Clays Project: Growing MRE, indicative positive processing results, PEA planned over Eden Pan. **Lithium Brines Project:** Drilling indicates large potential brine deposit. Further work required.

Swanson Tantalum Mine | 80% interest | Tantalum, Lithium
Mid-construction. Funding in progress. Definitive Feasibility Study (DFS), highlighted average annual free cash flows of AU\$6.38m (100% basis) using conservative assumptions.** Significant expansion potential over TVC project.

TVC Tantalum, Lithium Project | 80% effective interest
+200 Pegmatites in fertile Ta-Li Geological Terrain (relevant to Swanson).
Within regional-scale NW-SE-trending Pofadder shear zone.

TVC Nickel, PGE Project | 80% effective interest |
Mafic-ultramafic intrusion within Pofadder shear zone.
High discovery potential for magmatic-hosted Ni-Cu-(PGE)-(Au)-(V-Co-Cr-Fe) sulfide deposits. Exploration targets identified.



*For more information, refer to: <https://www.mining-technology.com/news/yintai-osino-resources/>

**Refer to the ASX release titled "DFS Confirms Swanson Project Significant Cash Generator" dated 31 May 2023 for more information.

Strategy for Maximising Shareholder Value



Arcadia Minerals' strategy emphasises shareholder value retention through JV's while advancing its **highly prospective asset base cost-effectively** in order to **maximise long-term value** for shareholders:

- ✓ Secure a new development partner to progress Swanson, with **free cash flows** from Swanson anticipated to **underpin Arcadia's corporate treasury** over the short & medium term.
- ✓ Continue to explore opportunities to maximise cashflow potential through **mine-life extensions and plant optimisation** at Swanson.
- ✓ Engage strategic equity partners to **accelerate advanced exploration** at the TVC Projects and Karibib, while applying **modern exploration technology** to fully unlock their **latent exploration value**.
- ✓ **Selectively undertake critical, low-cost** work at Bitterwasser to keep the asset in good standing, positioning it to benefit from an **anticipated resurgence** in lithium demand and sentiment.



Swanson Tantalum Mine Project



Karibib Copper-Gold Project



TVC Nickel-PGE & Ta-Li Project



Bitterwasser Project (Clays + Brine)

Executive Directors, Management & Non-Executive Board

**Jurie Wessels | Executive Chairman of Arcadia Minerals Limited | Based in South Africa**

Jurie has 27 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-Akrokerri 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.

**Philip Le Roux | Chief Executive Officer of Arcadia Minerals Limited | Based in Namibia**

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.

**Michael Davy | Independent Non-Executive Director of Arcadia Minerals Limited | Based in Australia**

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-Exec. Chairman of Raiden Resources Limited (ASX: RDN), Non-Exec. Chairman of Haranga Resources Limited (ASX: HAR) and a Non-Exec. Director of Vanadium Resources Limited (ASX:VR8).

**Andrew Law | Independent Non-Executive Director of Arcadia Minerals Limited | Based in Australia**

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.

**Johan le Roux | Non-Independent Non-Executive Director of Arcadia Minerals Limited | Based in South Africa**

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.

**Daniël Ellis | Chief Financial Officer of Arcadia Minerals Limited | Based in South Africa**

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).

**Lisias Pius | Country Manager of Arcadia Minerals Limited | Based in Namibia**

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.

**Dr. Ismael Kanguuehi | Geologist of Arcadia Minerals Limited | Based in Namibia**

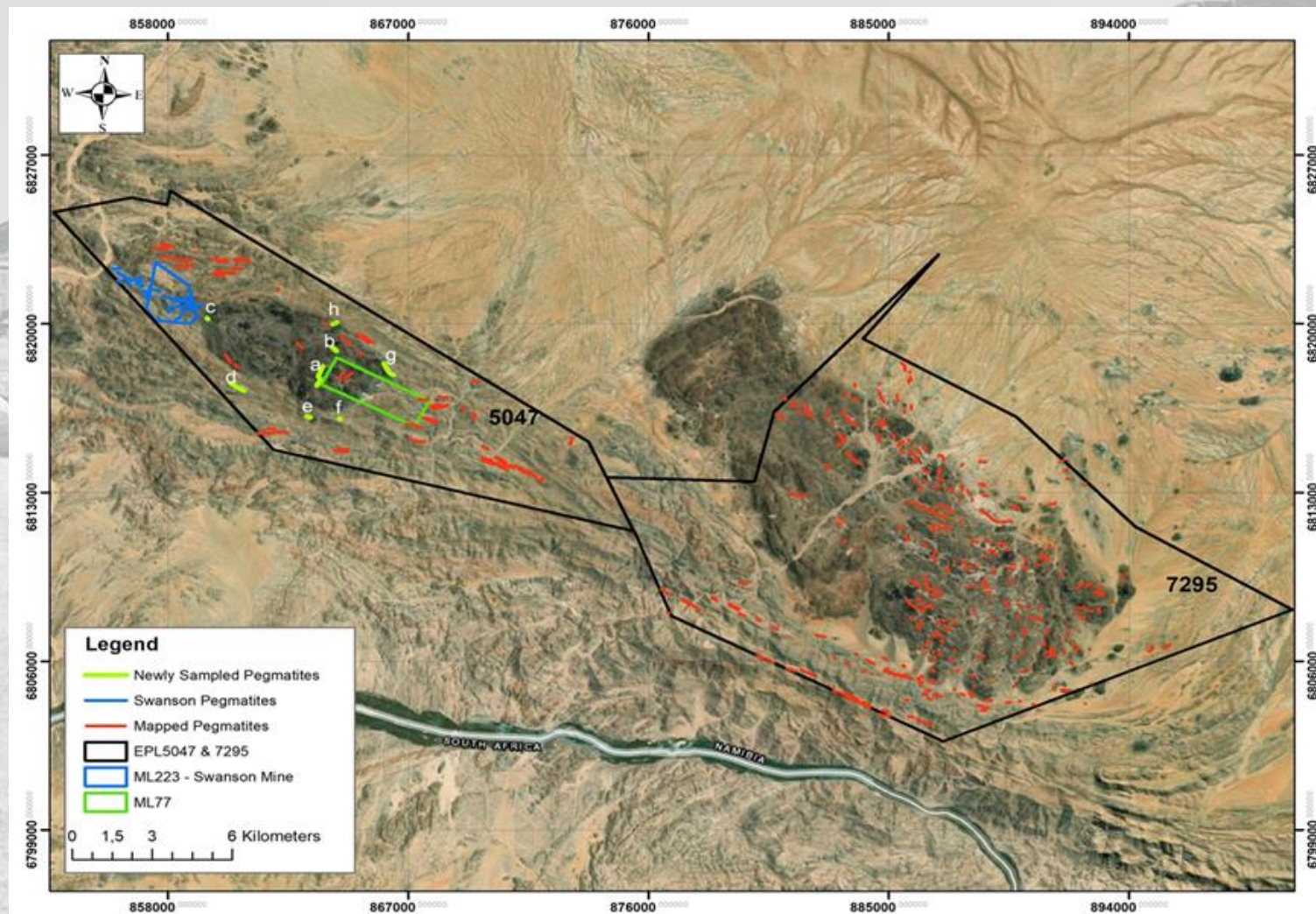
Ismael holds a Ph.D degree in Environmental Geochemistry from the University of Stellenbosch, having completed his Masters in Geology and B. Sc. (Hons) from the same institution. He completed his undergraduate degree from the University of Namibia, majoring in geology and environmental biology. He has vast experience in the management of base metal exploration and environmental geochemistry projects in Namibia and South Africa.



Swanson Tantalum Mine

HIGHLIGHTS

- ✓ **Development ready:** Fully Permitted, Land Use, Water Supply and Electricity Secured.
- ✓ **Established resource & high-grade:** 10 Pegmatites Drilled (at Swanson) for Mineral Resource of 2,582Mt @ 486ppm.
- ✓ **Exploration Upside:** To date only 15 of the more than 200 known pegmatites present over Arcadia's three licenses have been explored.
- ✓ **Cashflow:** Projected Annual Free Cash Flows: Au\$6.4m using conservative assumptions (assumed 12,500tpm throughput vs scope for up to 20,000tpm).
- ✓ **Scope for enhancements:** Potential to enhance the project through mine-life extensions, higher production rates and/or higher recoveries.
- ✓ **Tantalum supply:** Conflict free source of Tantalum, positioned to benefit from the growing demand in high-tech applications.



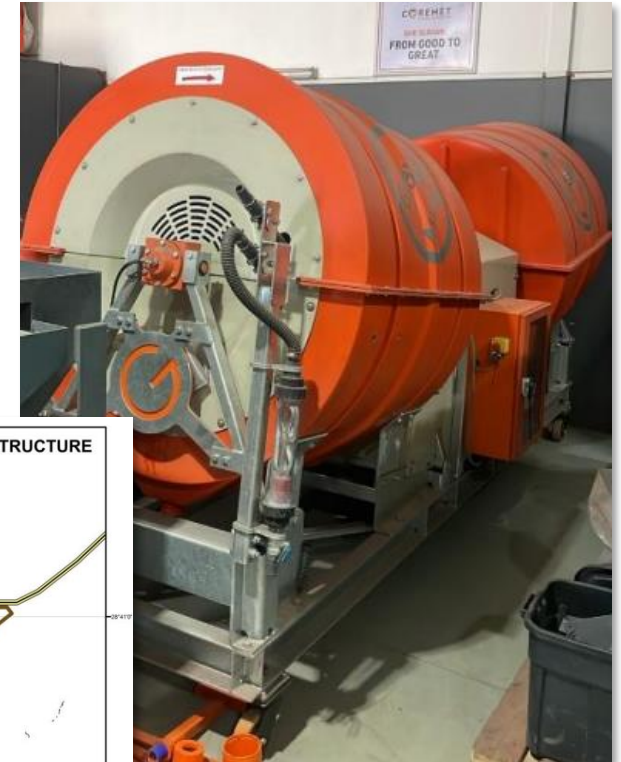
Swanson EPLs, Mining Lease & Pegmatites

Source: Replacement Prospectus, April 2021, Annexure A - Independent Geological Report the Tantalum Project; Asx Announcement 23 September 2021 "*Maiden Jorc Resource at Swanson Ta/Li Project*"; Asx Announcement 23 September 2021 "*Mineralogical Results Received & Bulk Sample Completed*"; Asx Announcement 4 February 2022 "*Impressive Drill Results Received from Swanson Tantalum Project*" and Asx Announcement 7 June 2022 "*Mining Licence Granted for Swanson Tantalum Project*"

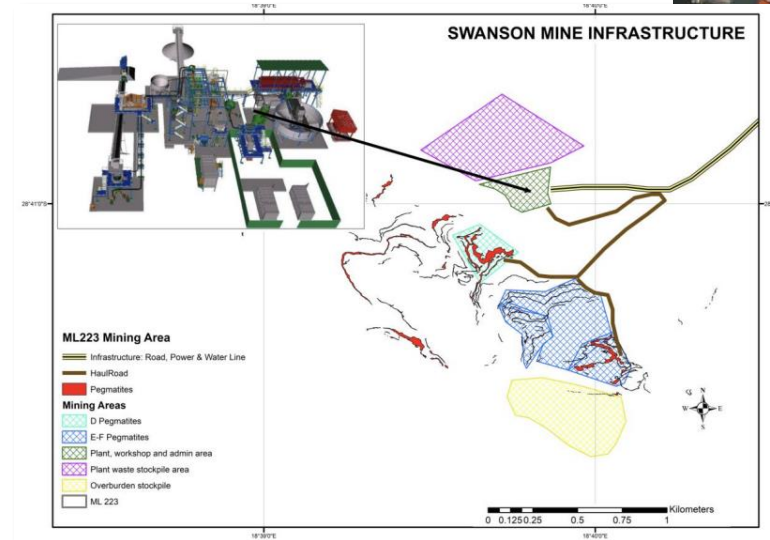
- Development slowed down significantly as a result of lack of funding from HeBei Xinjian Construction CC ("**HeBei**"), and the agreement with HeBei was consequently terminated by Arcadia.*
- Delay of delivery of the Multi Gravity Separators and Spiral Circuits due to non-payment of the final balance following previous deposits paid.
- Presently, the supplier has agreed to **keep equipment on hold for future delivery**, whilst the Company investigates **several available funding solutions**.***
- Arcadia has received **unsolicited interest** from several potential funders who **have the capacity to acquire HeBei's position by providing debt and/or equity to complete construction** of the Swanson Tantalum Mine.
- Information Memorandum towards a competitive bidding process distributed.



Swanson's 2 MGS C900s*



Swanson's MGS C902 Unit*



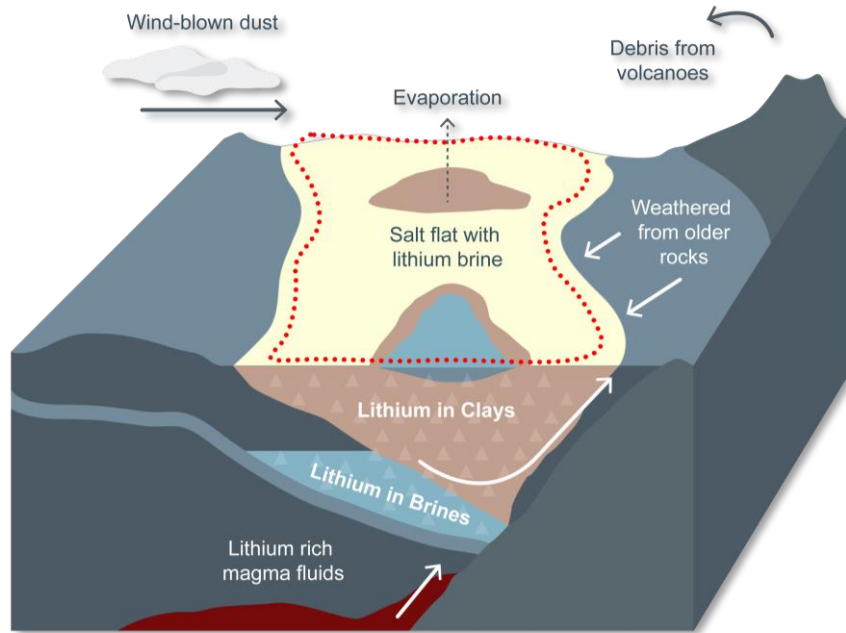
Swanson Mine Infrastructure Plan

*Refer to ASX release, "Swanson Tantalum Project Update", on 30 January 2025.

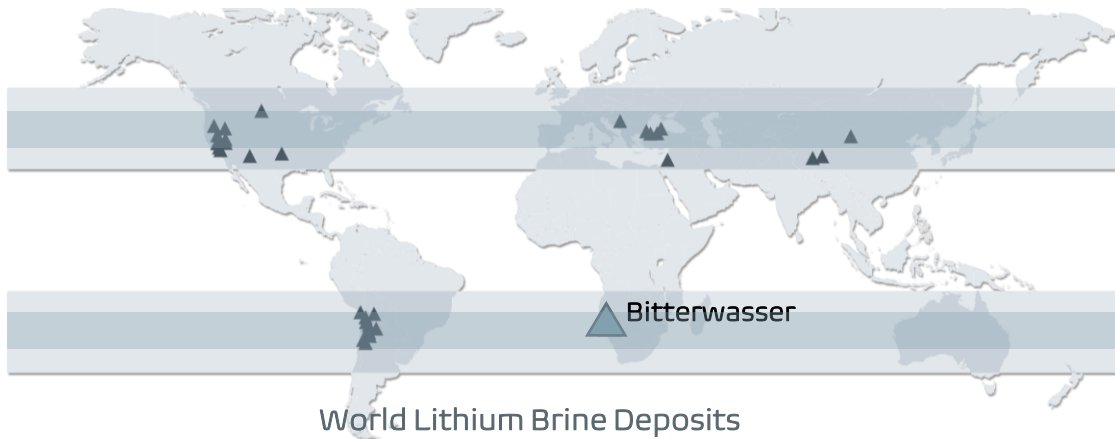
***Equipment pending delivery, contingent upon payment of final balance.



Bitterwasser Lithium Basin: Lithium Brines Project



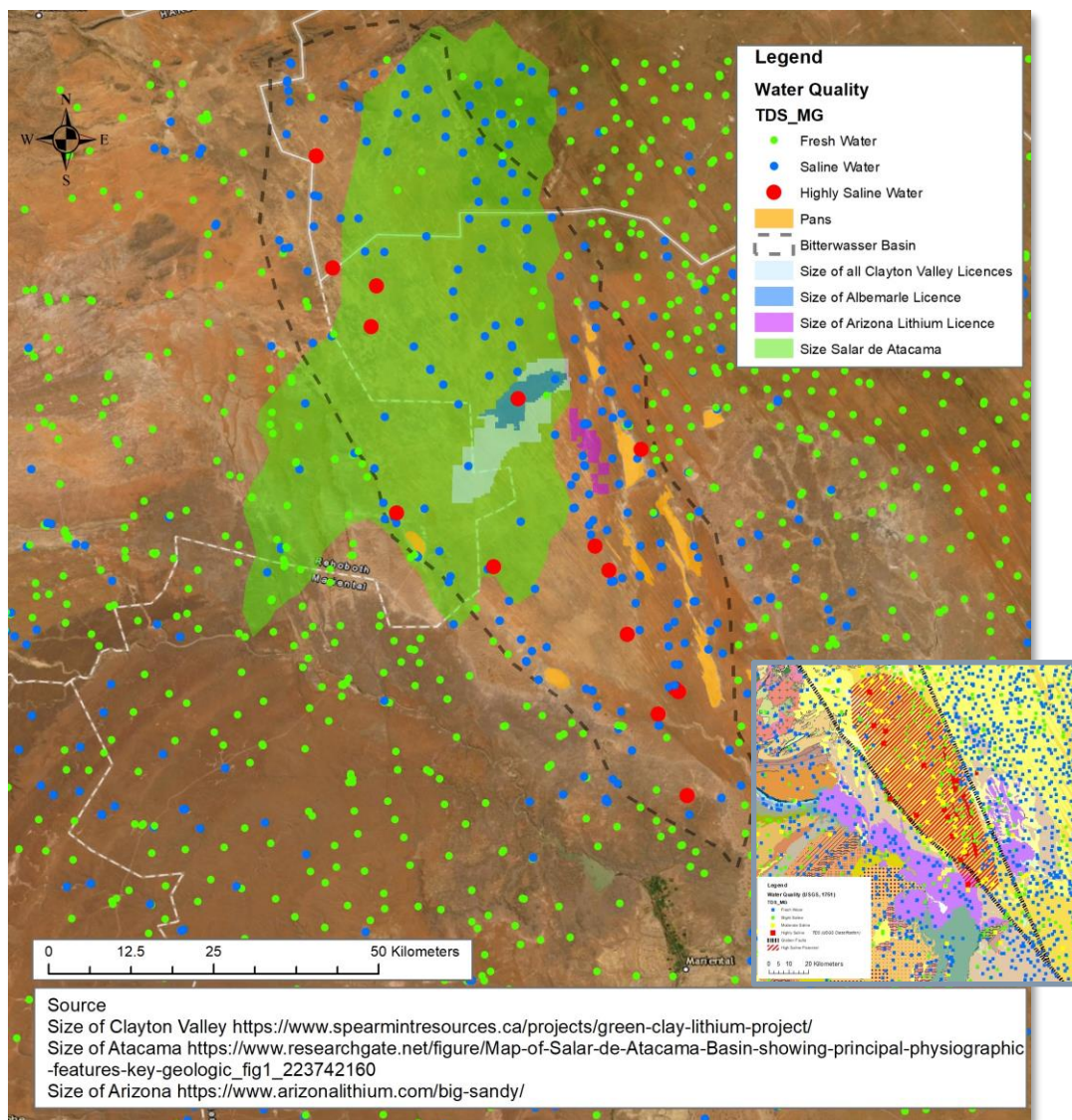
Schematic artist impression of an inferred model of the Bitterwasser Basin



World Lithium Brine Deposits

FIRST ORDER REQUIREMENTS FOR LITHIUM BRINE DEPOSITS

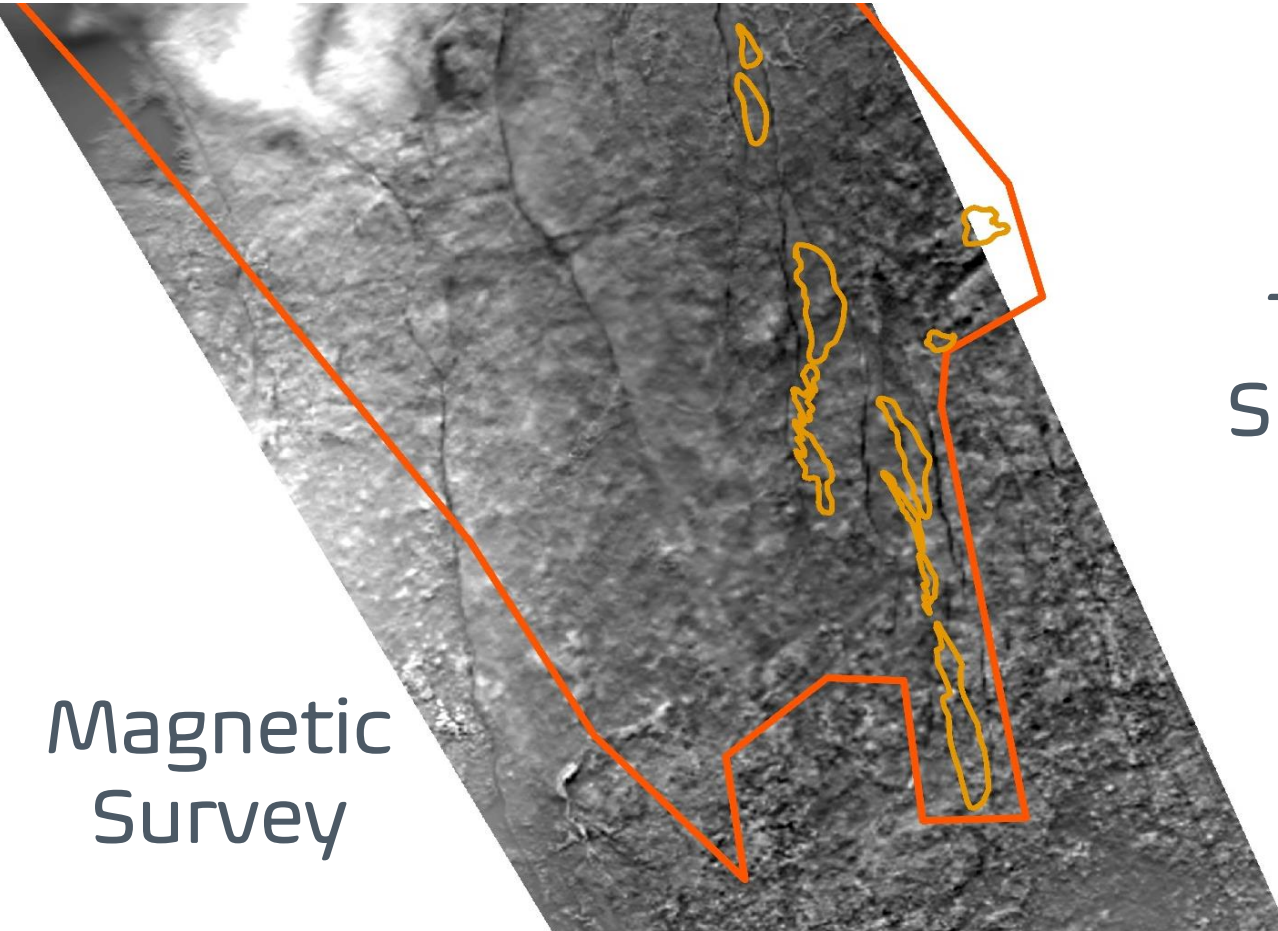
- ✓ Old, Deep, Closed-Basin and Aquifers
- ✓ Lithium Clay Deposits
- ✓ Lithium Sourced from Basement Rocks and Geothermal Activity
- ✓ Arid Climate in the "Lithium-Latitudes"
- ✓ Saline water with high Boron and Potassium content
- ✓ Lithium Brine Deposits (grades outstanding)



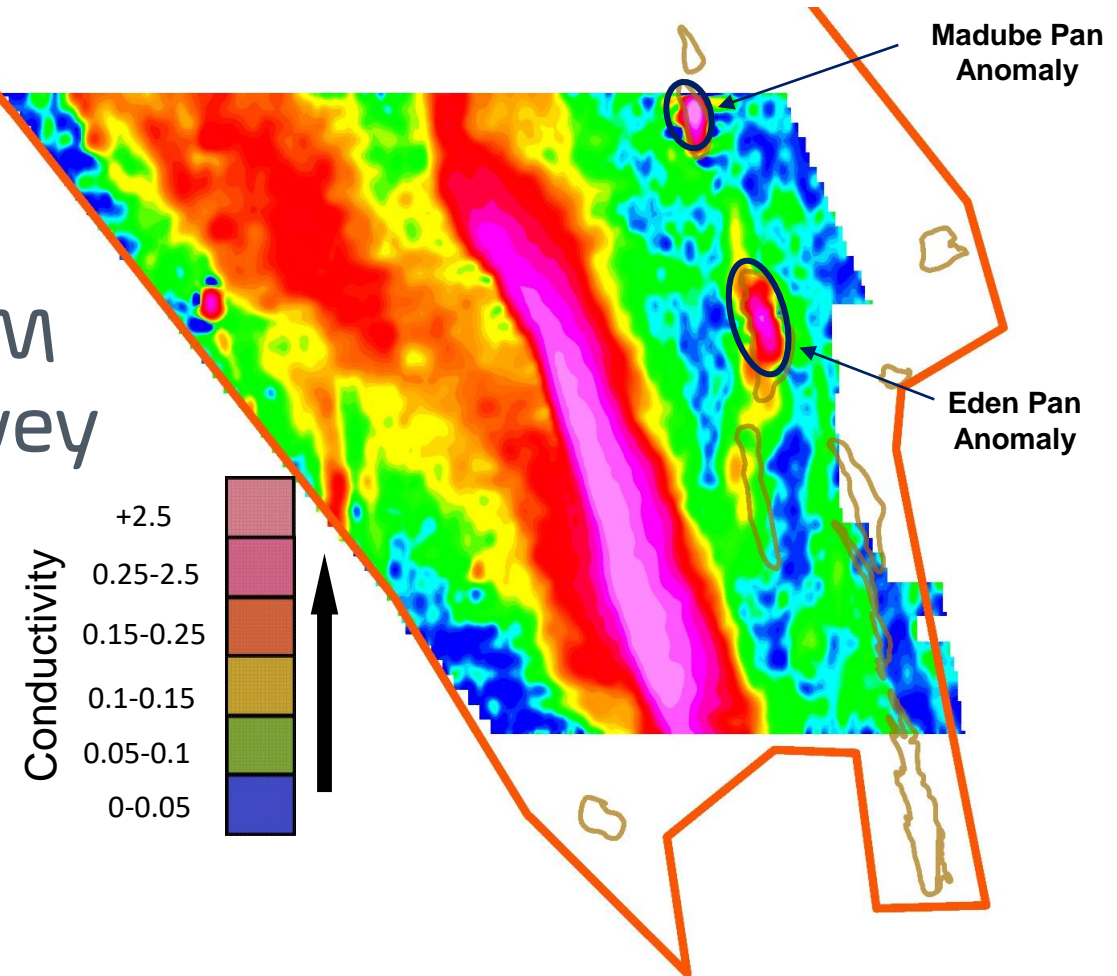
The Footprint of the Bitterwasser Lithium Basin compares favourably to well-established projects which include:

- Bacanora Minerals Ltd at its Sonora Lithium Project (8,154 ha) in Mexico, which was acquired by China's Gangfeng Lithium for £284.8 million.
 - Century Lithium Corp's Clayton Valley Project (2,197 ha) in Nevada, which recently reported a net present value (NPV) of US\$3 billion in its feasibility study.
 - Arizona Lithium's (ASX:AZL, Market cap ~A\$60m) Big Sandy Project and South America's Salar de Atacama Basin (>15% of the world's lithium reserves).
- <https://www.mining.com/bacanora-lithium-accepts-ganfengs-391-million-takeover-offer/>
 - <https://www.centurylithium.com/news/2024/century-lithium-announces-positive-feasibility-study-for-theclayton-valley-lithium-project-Nevada>
 - <https://www.fastmarkets.com/insights/negotiations-for-worlds-largest-lithium-reserve-in-brine-can-be-win-win-for-sqm-and-chile/>

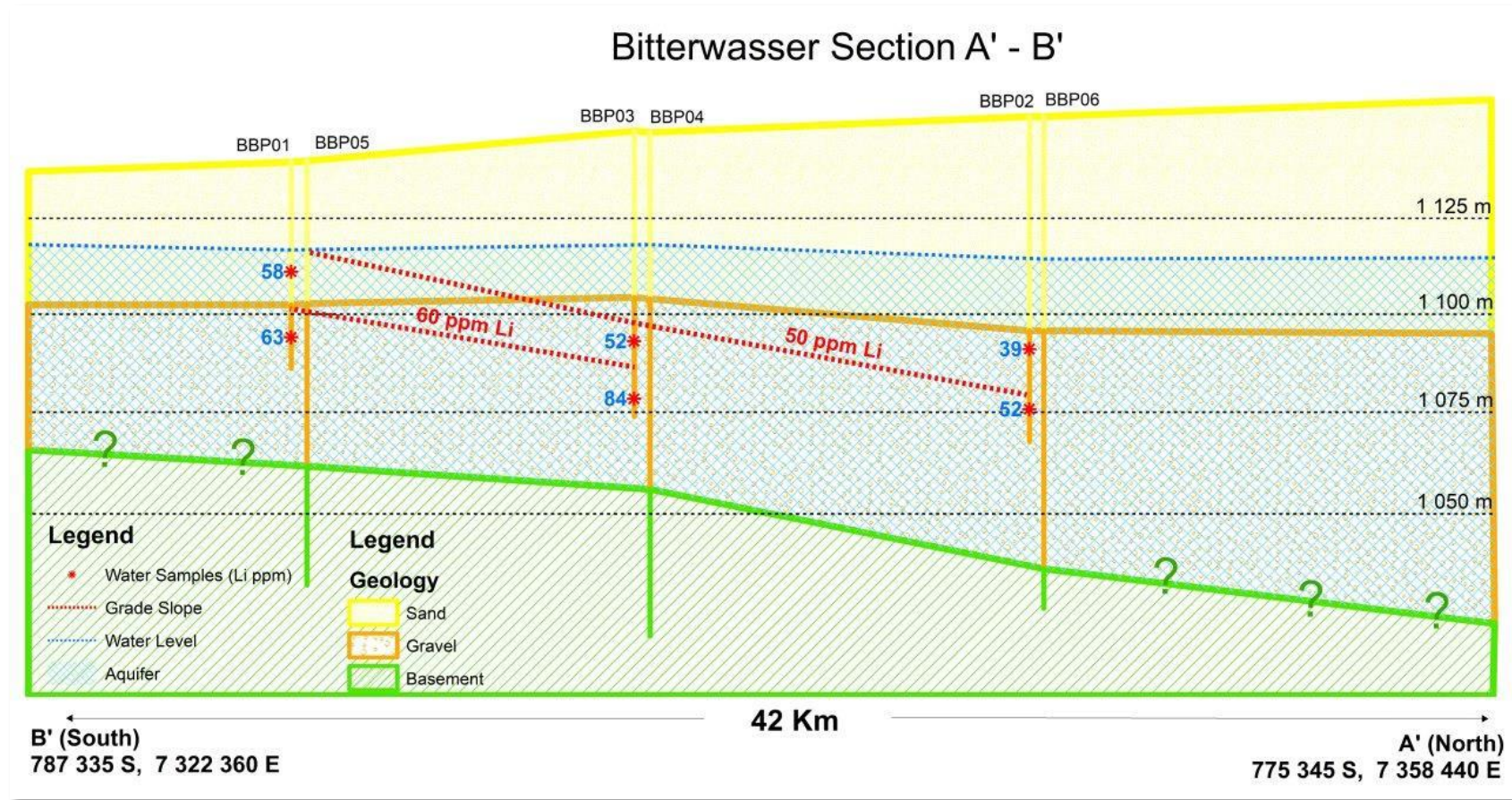
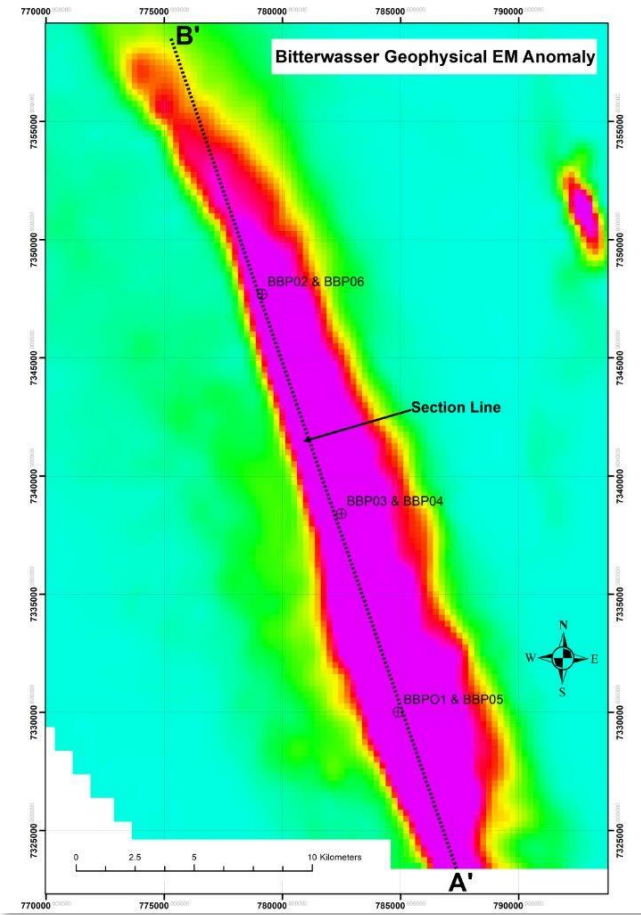
Magnetic
Survey



TDM
Survey



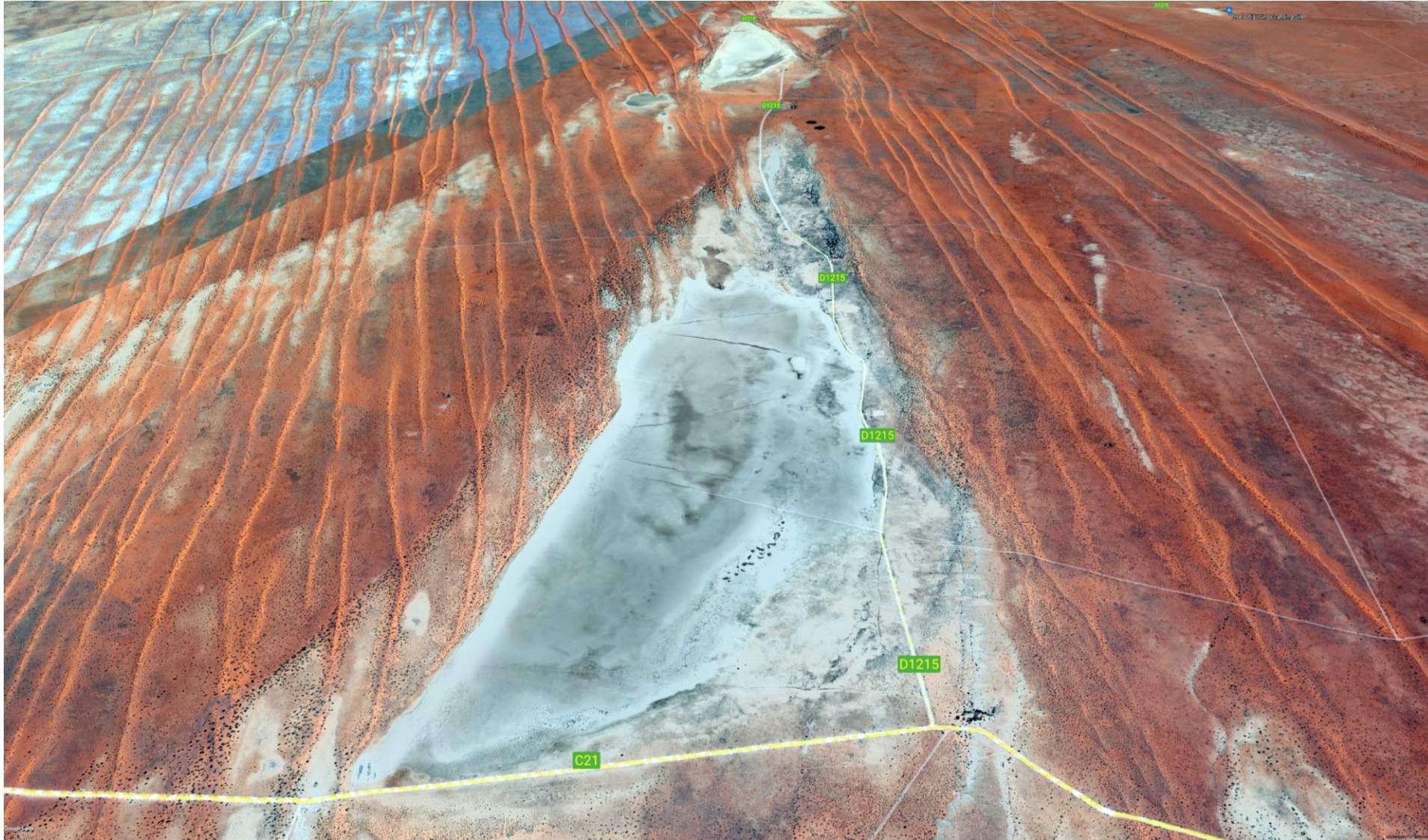
Exploration data indicates **strong potential** for the Bitterwasser Basin to host a **large-scale, world-class** lithium brine deposit.



Drilling at Bitterwasser has already shown evidence of lithium concentrations aligned with the visible geophysical EM anomaly.



Bitterwasser Lithium Basin: Lithium-in-Clays Project



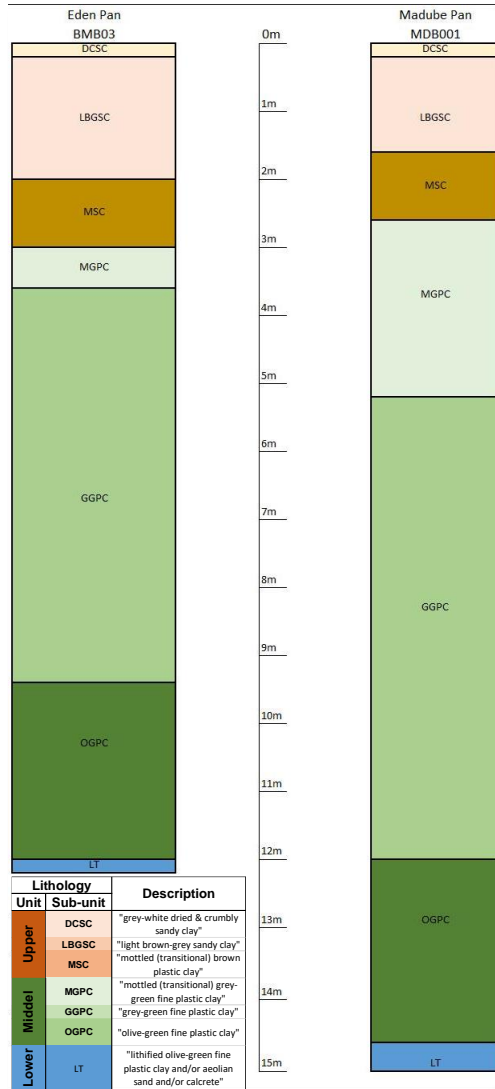
Large-scale clay targets

Follow up exploration targets already developed

Easily accessible, flat terrain and close to roads.

Early test work completed.

Madube / Eden Pans Stratigraphy compared



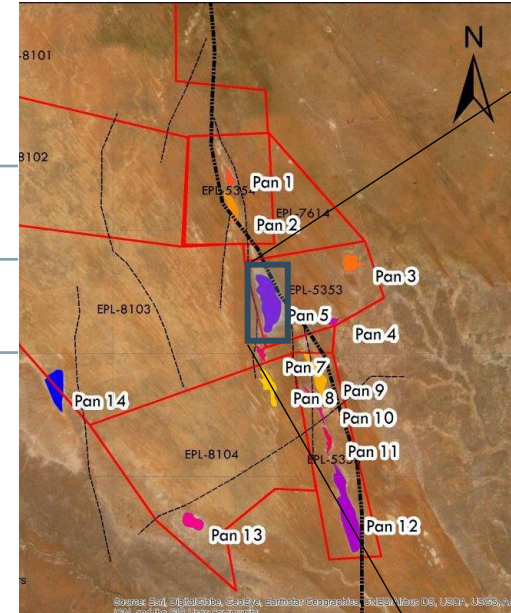
GROWING Li-Clay MINERAL RESOURCE

Five Pan districts in Southern Africa Investigated

Pan 2 and Pan 5: Mineral Resource Declared

Pan 1: Stryfontein Pan is Mineralised at surface

Further test work to be conducted towards processing methodologies



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

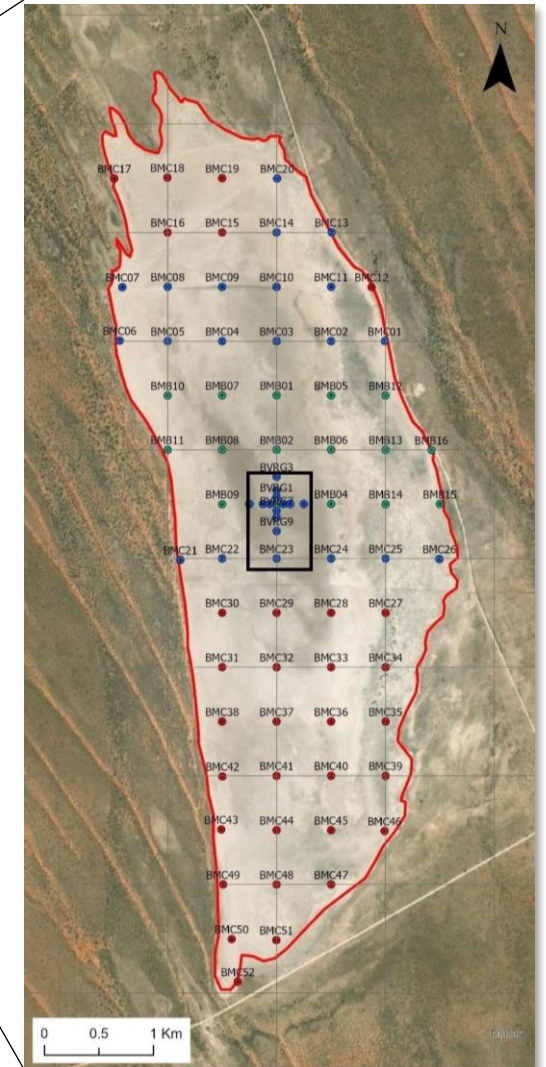
Pan 2 - Madube Pan: Mineral Resource of 40.3kt of LCE

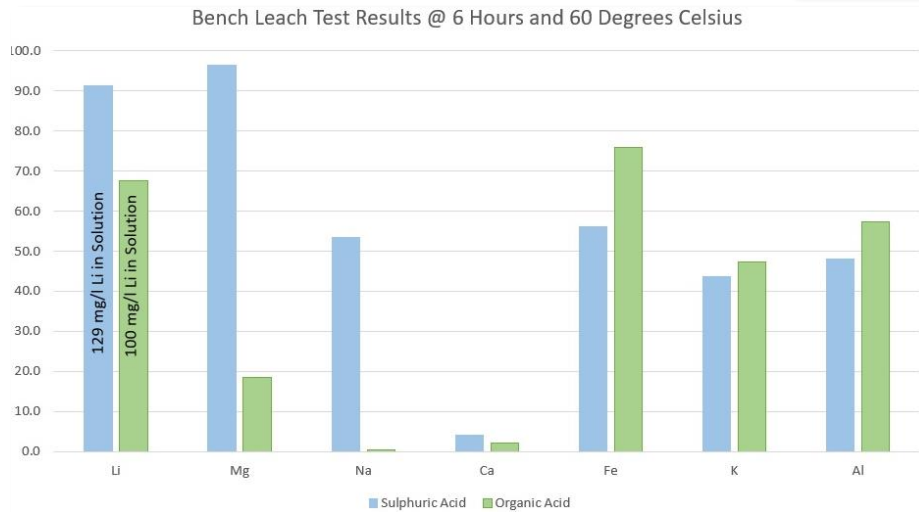
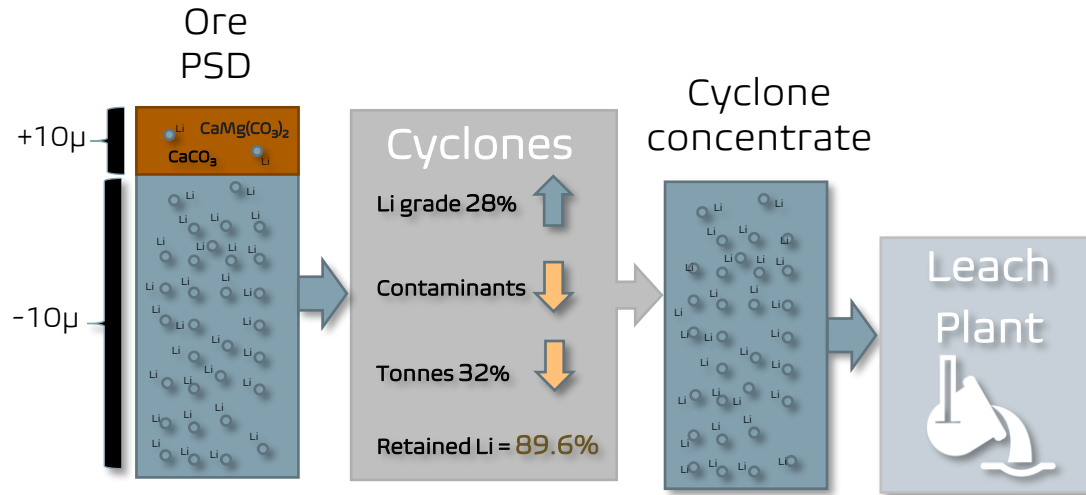
Eden Pan: Mineralisation from Surface to c.12m with Middle Green Clay Unit (MU) as Dominant Lithological Unit

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% recoveries: 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)

Metallurgical test work to date has demonstrated potential for **high & cost-effective recoveries** using **environmentally friendly** methods with **minimal chemical use**.

A microscopic image showing a variety of mineral grains. Some grains are dark and angular, while others are lighter and more crystalline. The texture is complex, with different mineral phases visible. A dark, elongated object, possibly a tool or a large mineral grain, is visible in the upper left corner.

TVC Ni-PGE and Ta-Li Projects & Karibib Copper Gold Project



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



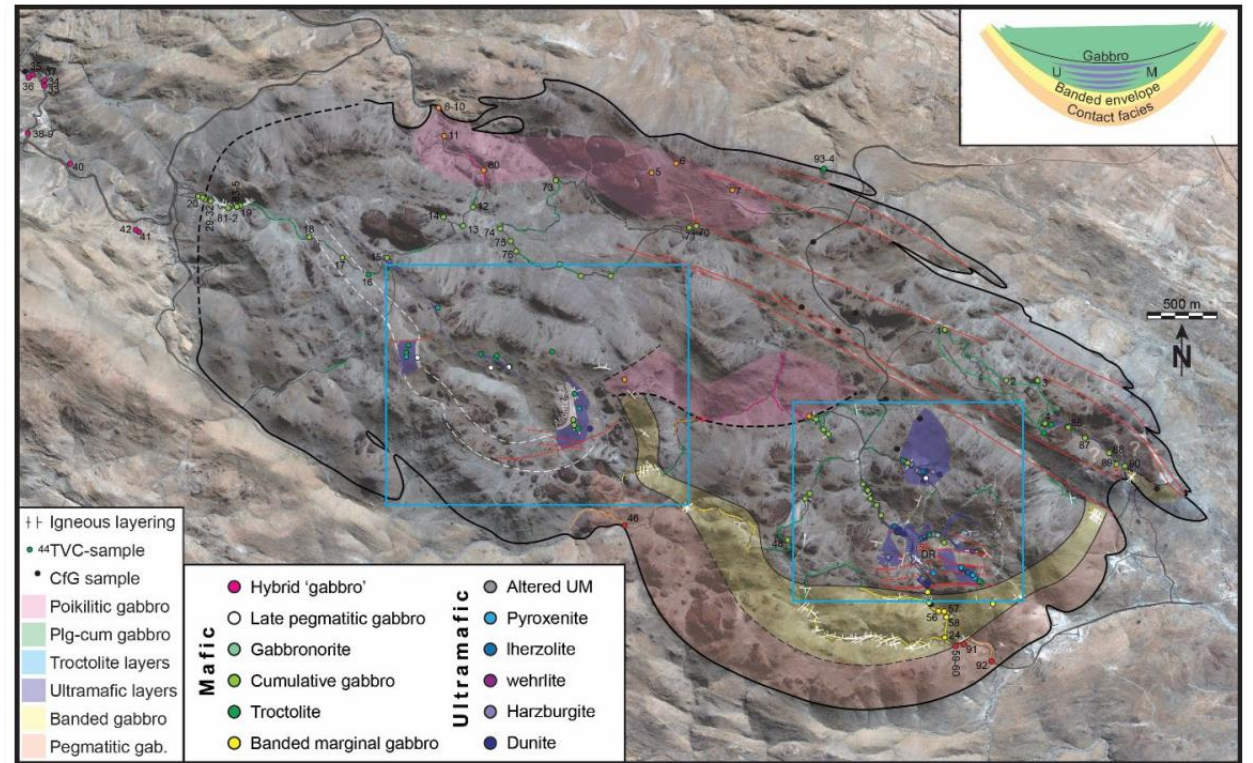
Historical results **untested** for PGE's
Sample analysis confirms PGE presence.
Likely a **Polymetallic Deposit** (Ni, Cu, Au and PGE's)



Actively in discussions regarding a **potential exploration joint venture** at the project-level, which may include funding and technical collaboration.



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 – Namibia's oldest and second largest gold mine.

Twin Hills Project – Acquired for US\$272m in early 2024.*

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 mineralisation

Skarn-type mineralisation (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)

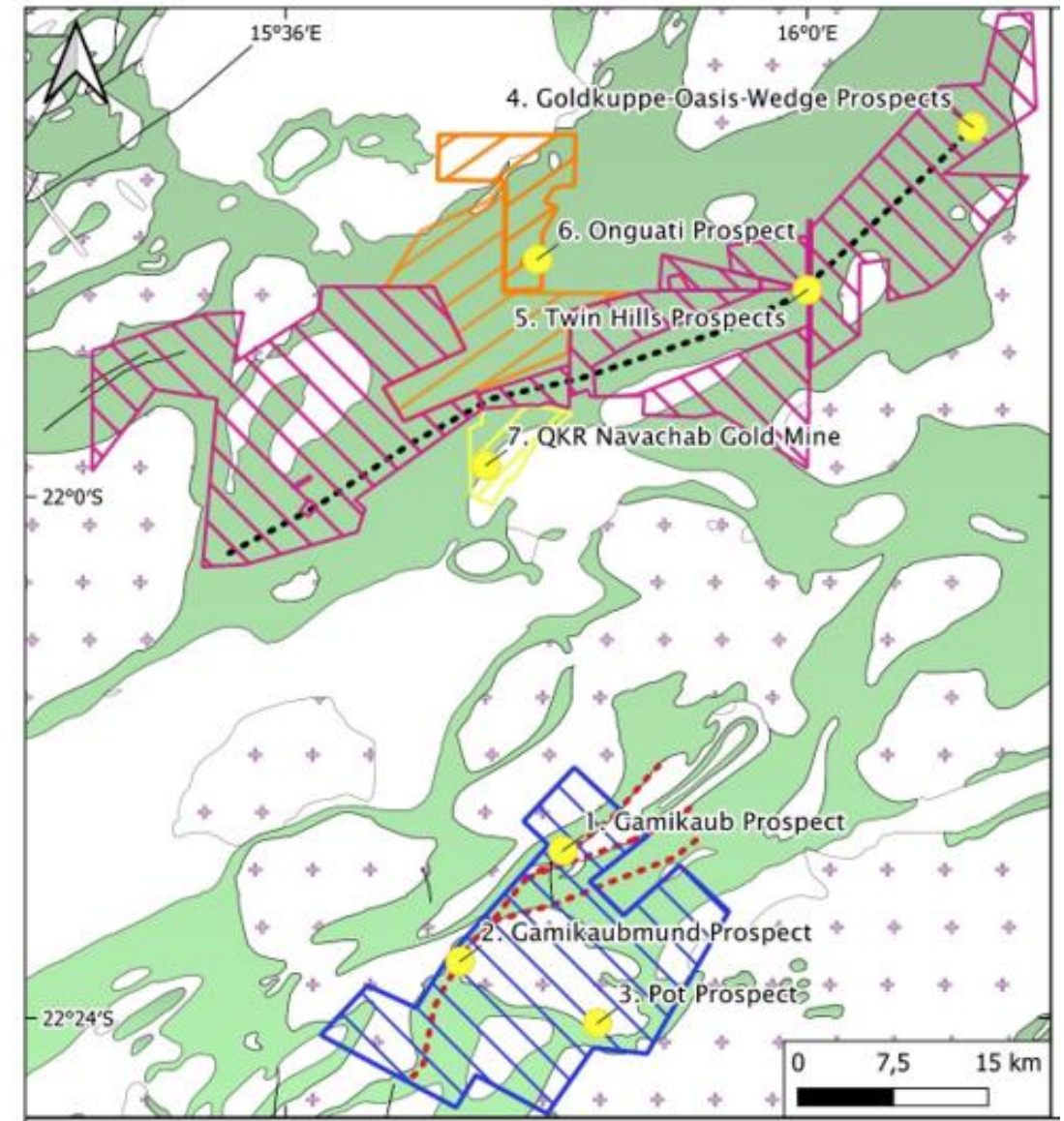
Vein-type mineralisation (13 grab samples over 20km)

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



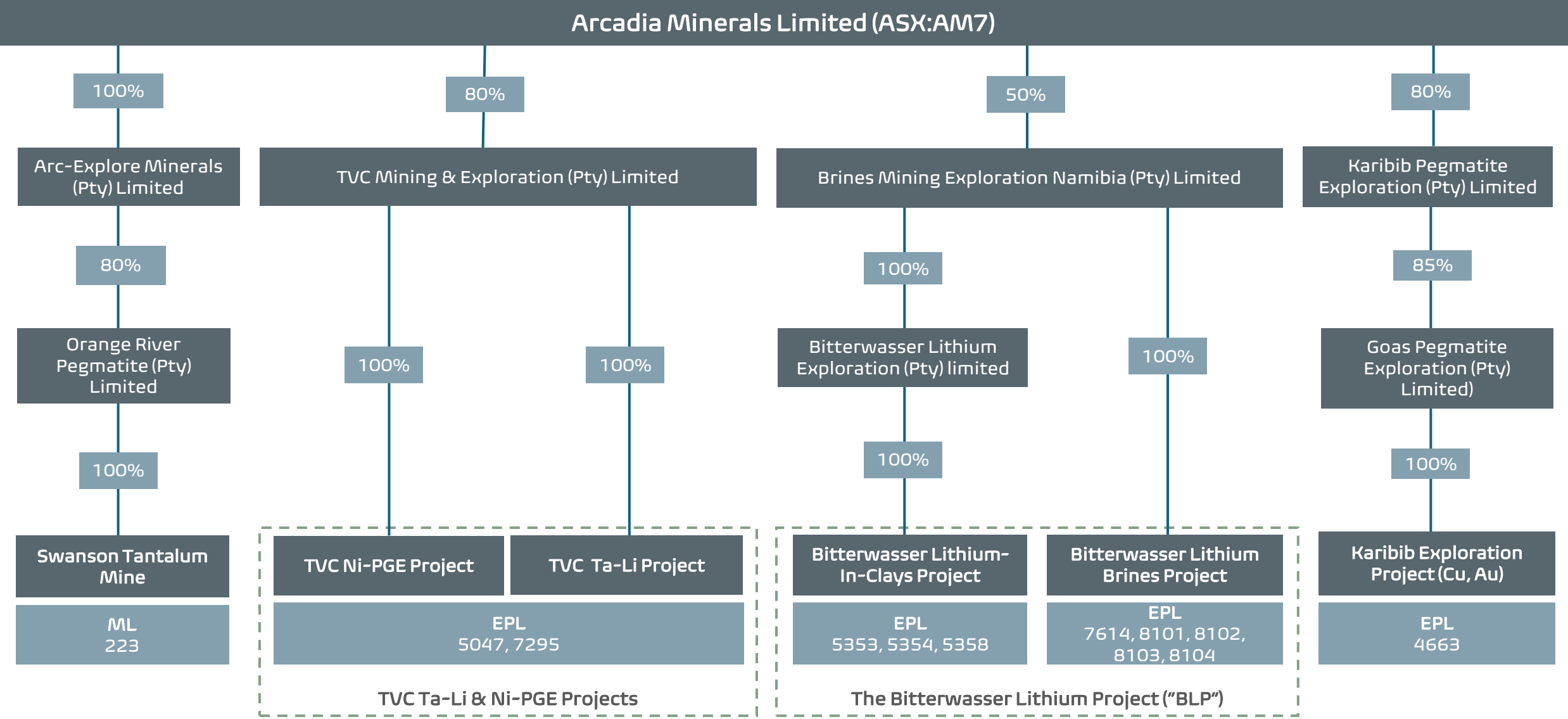
*For more information, refer to: <https://www.mining-technology.com/news/yintai-osino-resources/>

Source: Asx Announcement 7 September 2021 "High Grade Sampling Results at Karibib Copper and Gold Project" & 1 May 2023 "Drilling at Karibib intersects Sulphide Copper and Gold Mineralisation"

The background of the slide is a photograph of several large, white, woven sacks filled with grey, irregularly shaped rocks. A dark, thick strap with white stitching is visible, running diagonally across the sacks. A semi-transparent dark grey horizontal band is overlaid across the middle of the image, containing the text 'Additional Material' in white.

Additional Material

Corporate Structure





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.

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