



Anson Resources

Paradox Lithium Project

**Stage 1 Target Production Capacity – 10,000tpa of
Battery Grade Lithium Carbonate**



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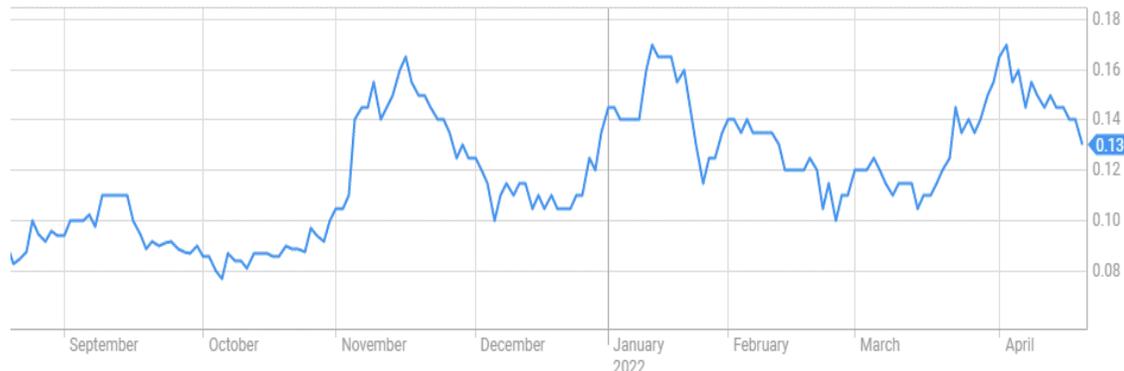
Corporate Snapshot

Overview

ASX code	ASN
Issued Capital	1,019 million
Market Capitalisation (3 June 2022)	\$138 million
52 week high – low	\$0.059 – 0.185

Shareholding

Chia Tai Xingye International	12.5%
Directors and Management	4.4%
Top 20	30.83%



Bruce Richardson, B.A (Hons) – Executive Chairman and CEO

Proven track record of 13 years in exploration, mining and production in public and private companies. Over 30 years of international business experience. Raised over \$170 million of investment for mining projects.



Peter (Greg) Knox, B.Sc. (Geology) – Director

Qualified geologist with over 30 years of experience in exploration, mine development and mining operations. Has worked on projects from grass-roots exploration through to mine development and production.



Michael van Uffelen, B.Com, CA – Director

Experienced Director, CFO and company secretary. Chartered Accountant with over 30 years experience gained from working with major accounting firms, investment banks and public companies.

Paradox Lithium Project, Utah, U.S.A. (100% owned)

- **Large High Quality Brine Resource**

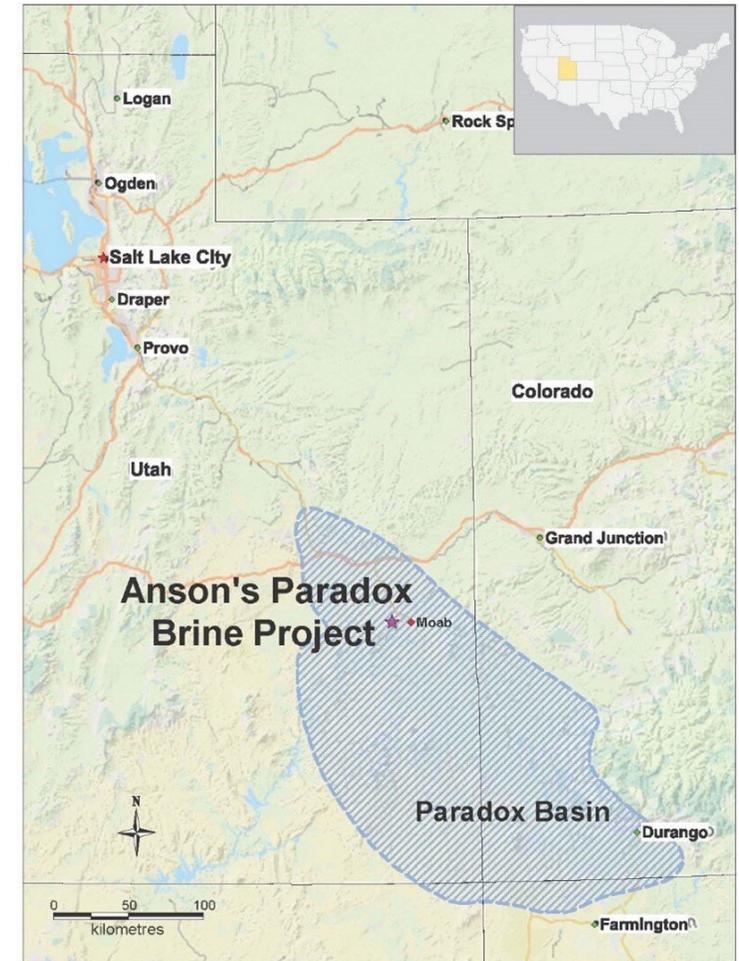
- High concentration of Li and Bromine
- JORC Resource of 322 Mt of Brine containing 186kt Lithium Carbonate Equivalent (LCE) and 1,012kt Br₂¹
- Similar pressure of 4500 psi across the entirety of the 100 sq km project area
- No pumping required, brine flows to surface under own pressure, reducing fossil fuel emissions – positive ESG impacts
- Significant resource expansion potential – major resource expansion program ongoing

- **Suited to Direct Lithium Extraction Method**

- No requirement for time-consuming and water intensive evaporation to extract lithium from brine
- Processed brine reinjected into original formation

- **Strategic Tier 1 Jurisdiction**

- USA is a net importer of LCE with growing EV Battery Industry
- Lower taxes and political risk



Paradox Lithium Project Location

The Paradox Basin

The Paradox Basin consists of various formations which host large volumes of brines rich in Lithium and Bromine, among other minerals. It is located within a mature oil and gas district, providing Anson access to valuable historic data.

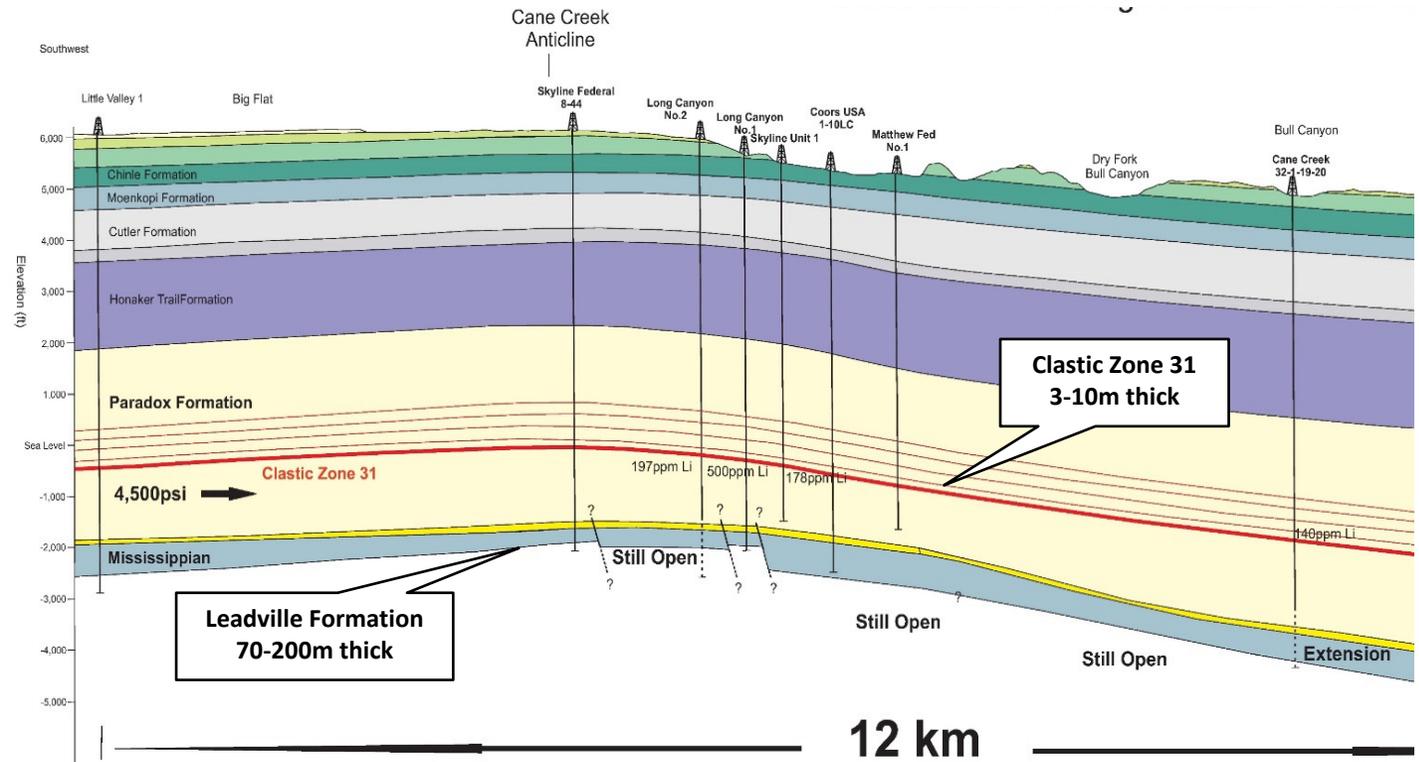
Target horizons comprise:

Paradox Formation

- 6,500 ft below the surface, has been the target of Anson's exploration activities to date.
- **Current Mineral Resource Estimate is based on clastic zones within the Paradox Formation only.**

Mississippian (Leadville) Formation

- 1,500 ft below Paradox and **significantly thicker** than the Paradox Formation (70-110m versus 3-10m).
- Historical data confirms **massive supersaturated brine aquifer** in the Mississippian (Leadville) Formation similar to the Paradox Formation.
- Current phase of resource expansion program is focused here



Schematic Cross Section through the Paradox Basin Project

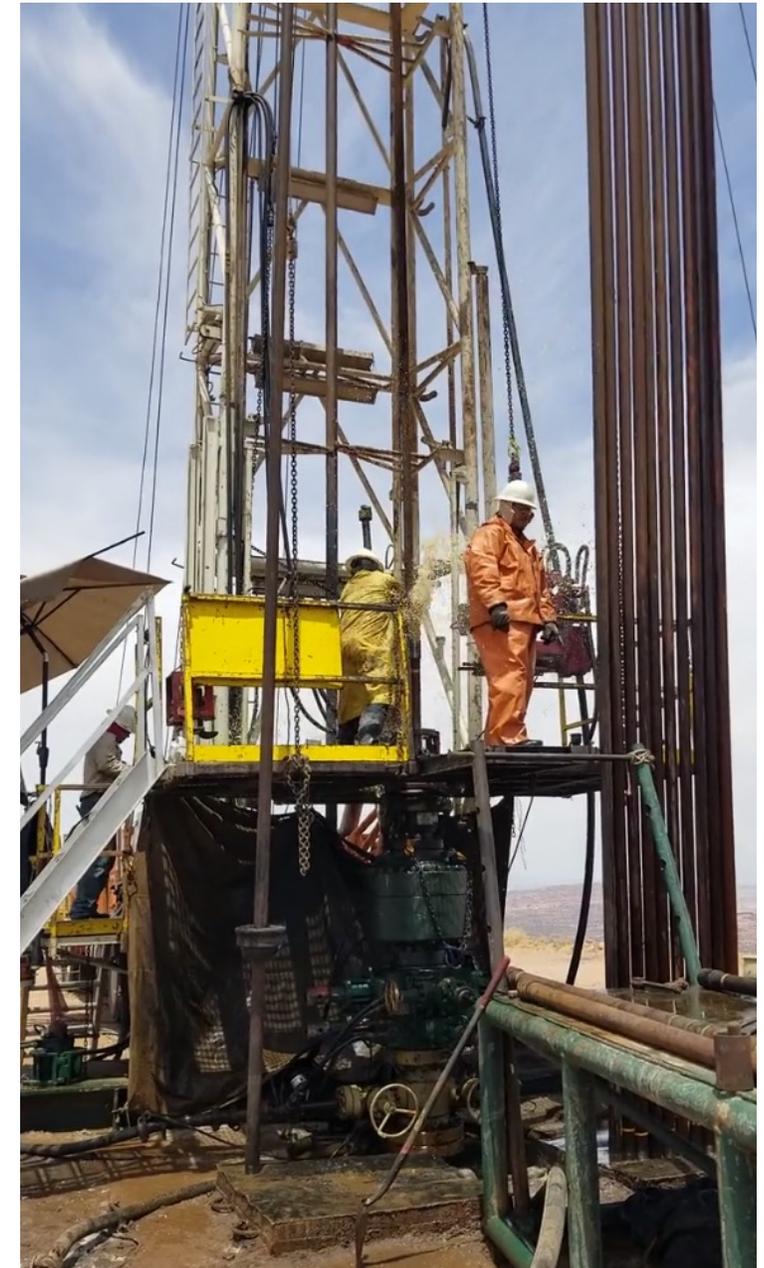
First Brine Flows achieved from Thick, Minerals-Rich Mississippian Zone



Brine being collected for sampling from the Mississippian units at the Paradox Lithium Project Long Canyon #2 Well.



Large amount of salt coming out of the Paradox Lithium Project Long Canyon Long Canyon #2 well (an indicator of the presence of brine) on approaching the start of Mississippian Zone, at a depth of 2346m.



Drilling at the at the Long Canyon #2 well at the Paradox Lithium Project.

**Stage 1 Target
Production Capacity:**

**10,000tpa Battery Grade
Lithium Carbonate**



Production Capacity: 10,000tpa Lithium Carbonate

Substantial developments in the lithium market, combined with the unique attributes of the Paradox Lithium Project, have driven **plans to increase Stage 1 Lithium Carbonate production capacity to 10,000tpa.**

This represents a **275% increase in production capacity** from the 2,674tpa published in the Project's Updated Preliminary Economic Assessment.¹

Key Drivers for expanded Lithium Carbonate Production Capacity:

1

Expected upgrades to the Project Resource resulting from the **Resource Expansion program**

4

Continued investment into planned **battery manufacturing facilities in the United States**

7

US Government commits to >US\$20 Billion of low interest financing for development of US lithium battery supply chain and energy transition

2

Higher (91.5%) lithium recoveries achieved from Anson's Direct Lithium Extraction test work

5

Superior performance of Anson's 99.95% purity Lithium Carbonate indicating longer battery lifespan

3

+1,000% demand driven Lithium Price Increase in past 24 months

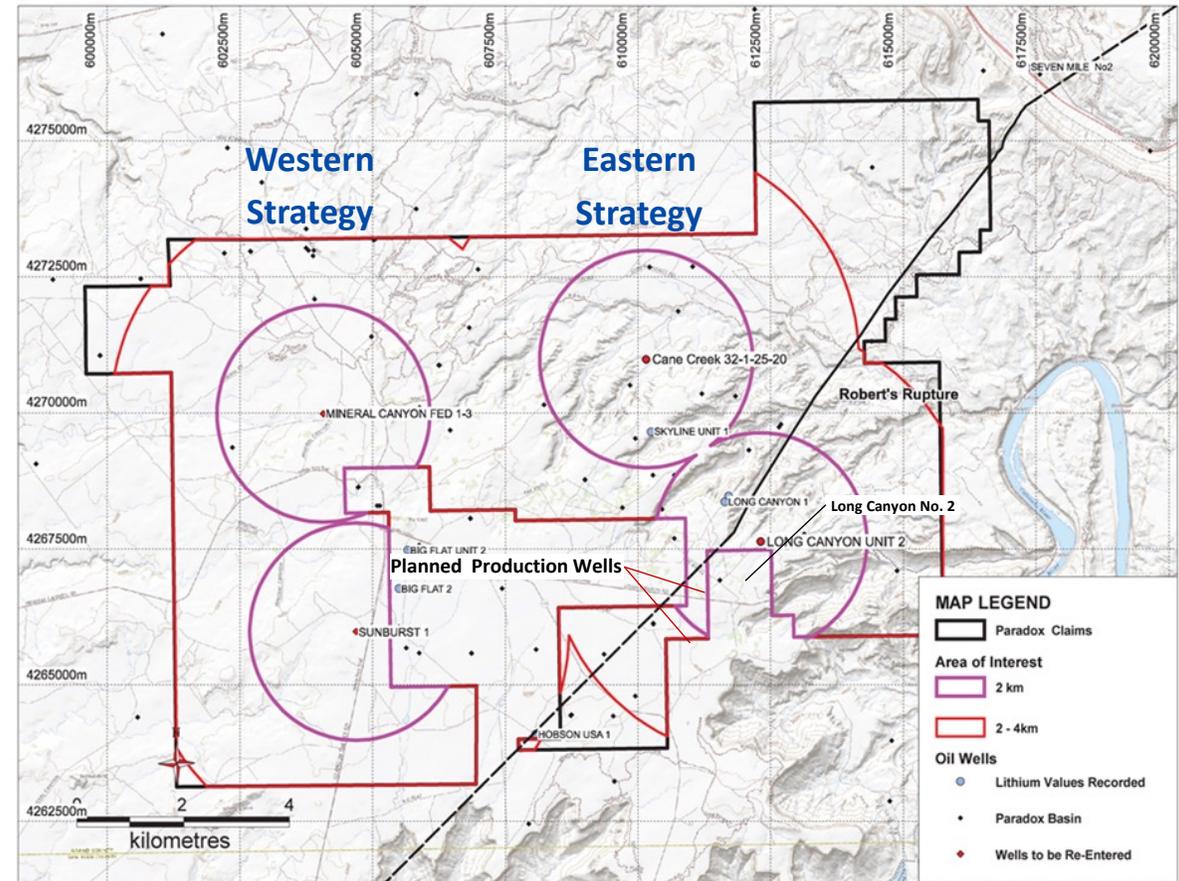
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Lithium has been designated a **Critical Mineral** by the US Government

1

Resource Expansion Program

- The Mississippian (Leadville) and the Paradox Formations have a combined **Exploration Target of 0.65 – 1.9Mt LCE and 3.3 – 6.5Mt of Bromine¹**.
- Anson is targeting a Resource upgrade in size and category on the back of:
 - ✓ **A 20% increase in the Paradox Basin project area via the pegging of 128 new claims (18.4km²) along the western margin. 8.5km² of new area within existing Area of Influence, to be included in Resource update.**
ASX announcement 18 October 2021
 - ✓ **Successful execution of the Eastern Strategy –**
 - **Drilling at Long Canyon No.2 well, reaches massive Mississippian brine source – first brine flows achieved**
ASX announcement 2 June 2022
 - **Approval for Drilling granted at priority Cane Creek re-entry, to commence on completion of Long Canyon No.2 drilling**
ASX announcements 17 January 2022, 28 March 2022, 23 May 2022 & 1 June 2022
- New core data from the above drilling program will allow a Resource update to include the Mississippian formation (previously unexplored for lithium).**



Projected anticipated Resource for Mississippian Formation upon completion of Western and Eastern Strategy.

2 Direct Lithium Extraction (DLE) Process

Industry leading 91.5% Lithium recovery from brine confirmed by pilot plant test work¹

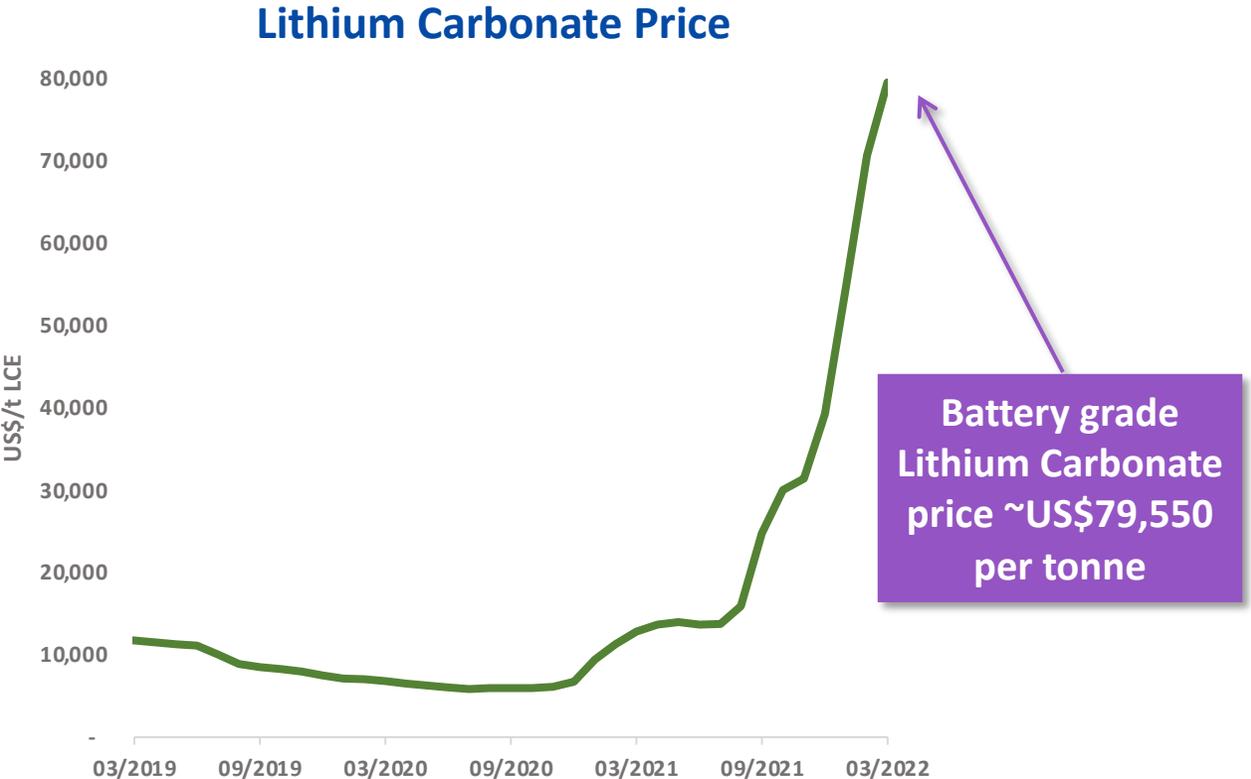
De-risked, Proven Process - 91.5% Li recoveries

- ✓ Existing extraction technology, commercialised by **established chemicals company**
- ✓ Brine based lithium carbonate **plants using DLE already in operation¹**
- ✓ Batch testing and lab scale pilot plant test work completed
- ✓ Superior result to ~50% Li recovery via evaporation and 80% Li recovery via Lilac (previously tested by Anson) and other DLE methods.



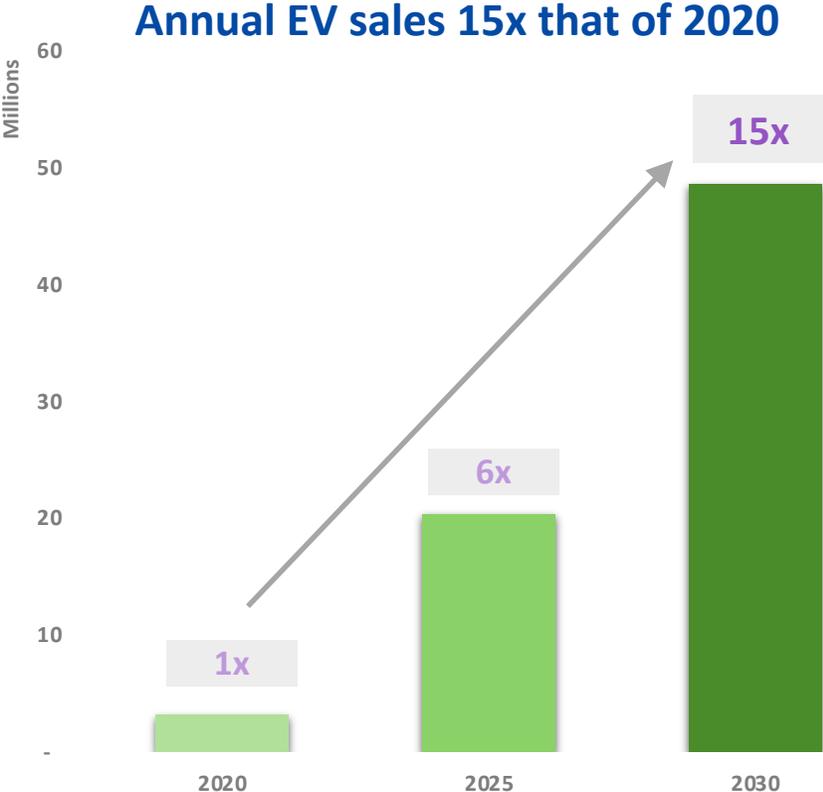
3 +1000% demand driven increase in price

Lithium production must quadruple to 2Mt Lithium Carbonate Equivalent (LCE) between 2020 and 2030 to meet growing demand¹.



Source: Battery Grade Lithium Carbonate Price China EXW as at 31 March 2022, Source S&P Capital IQ

Battery grade Lithium Carbonate price ~US\$79,550 per tonne



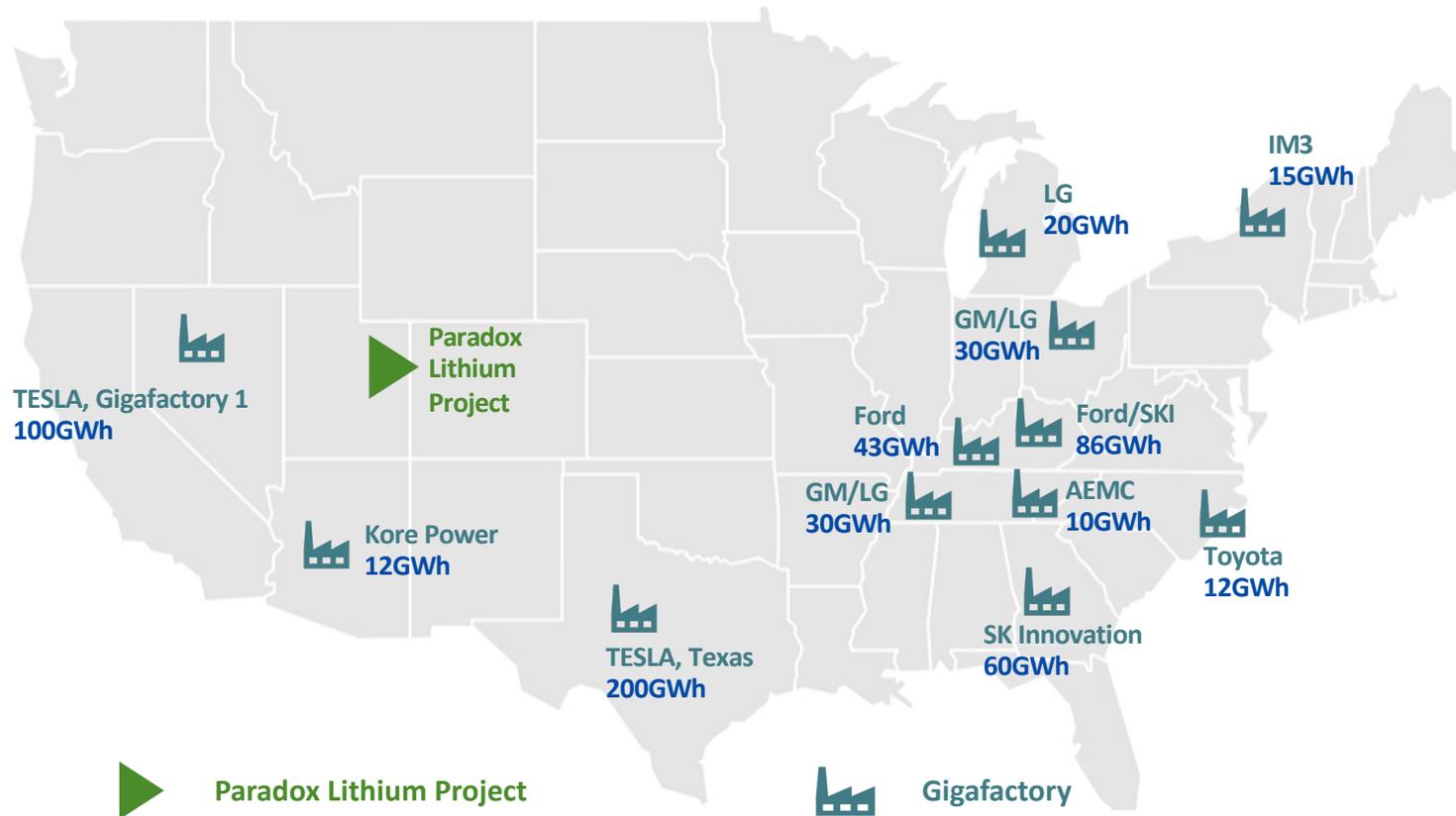
Source: IEA (2021), Global EV Outlook 2021, IEA, Paris <https://www.iea.org/reports/global-ev-outlook-2021>

1. Fastmarkets, Lithium Supply and Demand to 2030 (22 July 2021)

4

Greater Battery Manufacturing Capacity

Investment into U.S. battery manufacturing facilities continues to increase, with US car manufacturers committing to an all-electric product range.



U.S. Lithium Advantage

Lithium listed as critical mineral in the U.S. Greater focus towards **supply chain security** and local assets

12 battery mega factories in operations, **10 new giga factories in pipeline¹** to produce by 2025

Albemarle's Silver Peak Mine is the **only producing lithium mine in the U.S.¹**

5

Superior Performance – Li Battery Testing

- Anson’s Lithium Carbonate demonstrates lower capacity loss during initial charge cycles
 - Lower resistance growth in Anson Li battery¹
- Anson’s Lithium Carbonate supports a **more stable battery**
 - 1.5 - 2x less gas production within battery
 - Lower rate of self discharge at high temperature (60°C)
- **Improved battery efficiency** expected due to low impurities
 - Less unwanted “parasitic” reactions – 99.95% pure

NOVONIX

UHPC Results

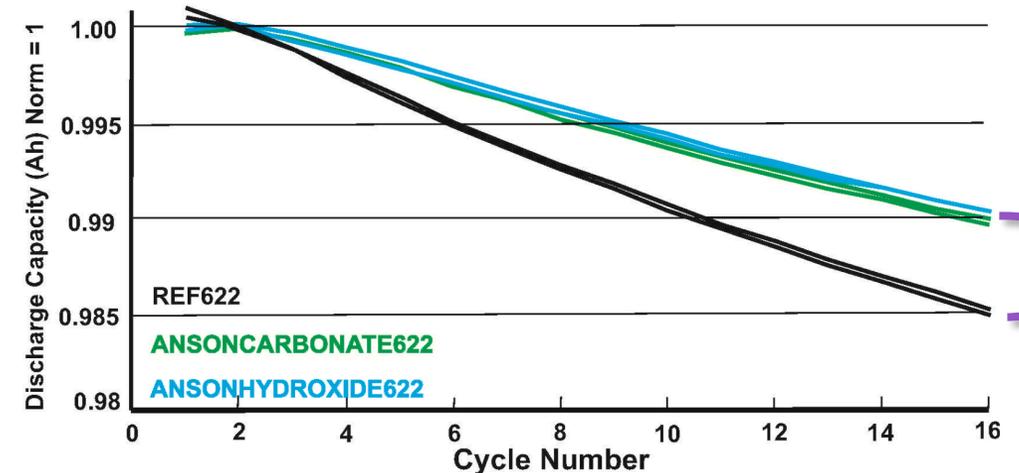


Figure: Ultra-high precision coulometric (UHPC) cycling test, ASX release 9 September 2021

Lower loss of battery capacity during charge cycles¹

6 Lithium – A Critical Mineral in the USA

- Lithium designated a “critical mineral” by the US Government
- Only 750,000 tons of Lithium Reserves in the United States¹
 - <3.5% of world’s lithium reserves
- US lithium-ion battery manufacturing capacity² is forecast to rise –
 - **By 2025 – 10x to 382GWh p.a.**
 - **By 2030 – 17x to 620GWh p.a.**



7

>US\$20 Billion Funding by US Government

- The United States Department of Energy is proposing to deploy **US\$17.7 billion in financing** to support development of domestic US based lithium-ion battery supply chain
- Dept of Energy loans available at low interest for long tenors under the Advanced Technology Vehicles Manufacturing Loan (ATVM) program.
- Additionally, the **Biden government has announced >US\$3 billion of grant funding for fast-tracking** the development of the domestic battery supply.



Bromine Production Capacity:

**Providing Anson with
outstanding opportunity
to access the growing US
renewable energy
storage market**



Bromine Production Capacity

Bromine production capacity at the Paradox Project is to be added progressively, to align with forecast substantial increase in demand for zinc-bromine batteries (to support electricity networks and renewable energy storage) and other bromine derivative products such as calcium-bromide (CaBr) and sodium-bromide (NaBr), which are used in multiple industrial applications.

- Strong demand anticipated for zinc-bromine batteries being deployed at large scale in the United States
- Lithium Carbonate and Bromine plant to **share infrastructure**
- **High Grade Resource** with over 3,500 ppm of Br in Paradox Basin¹, one of the highest grades among existing producers
- Anson's Updated Preliminary Economic Assessment included Prefeasibility Study (PFS) work for a **15,000tpa sodium bromine plant**. *See ASX announcement 1 September 2021.*
- TETRA Technologies (NYSE:TTI) MoU has been extended² and expanded to include TETRA's proprietary technology to **produce TETRA PureFlow™ ultra-pure zinc-bromide used in stationary storage batteries**

Stationary Energy Storage – Flow Batteries

**Bloomberg New
Energy Forum**

A 122-fold boom in stationary energy storage over the next two decades will require **US\$662 billion of investment**

100% Renewable Energy needs lots of storage. 278GWh of grid storage required in the US alone for a 100% renewable power generation

**Inside Climate
News**

**US. Dept of
Energy**

Flow cells are potentially cost-effective and viable for widespread adoption as they are **not limited by natural earth abundance**

Zinc-Bromine flow battery technology **addresses safety issues** with other storage solution technologies

**Engineers
Australia**

Energy Storage – Flow Batteries

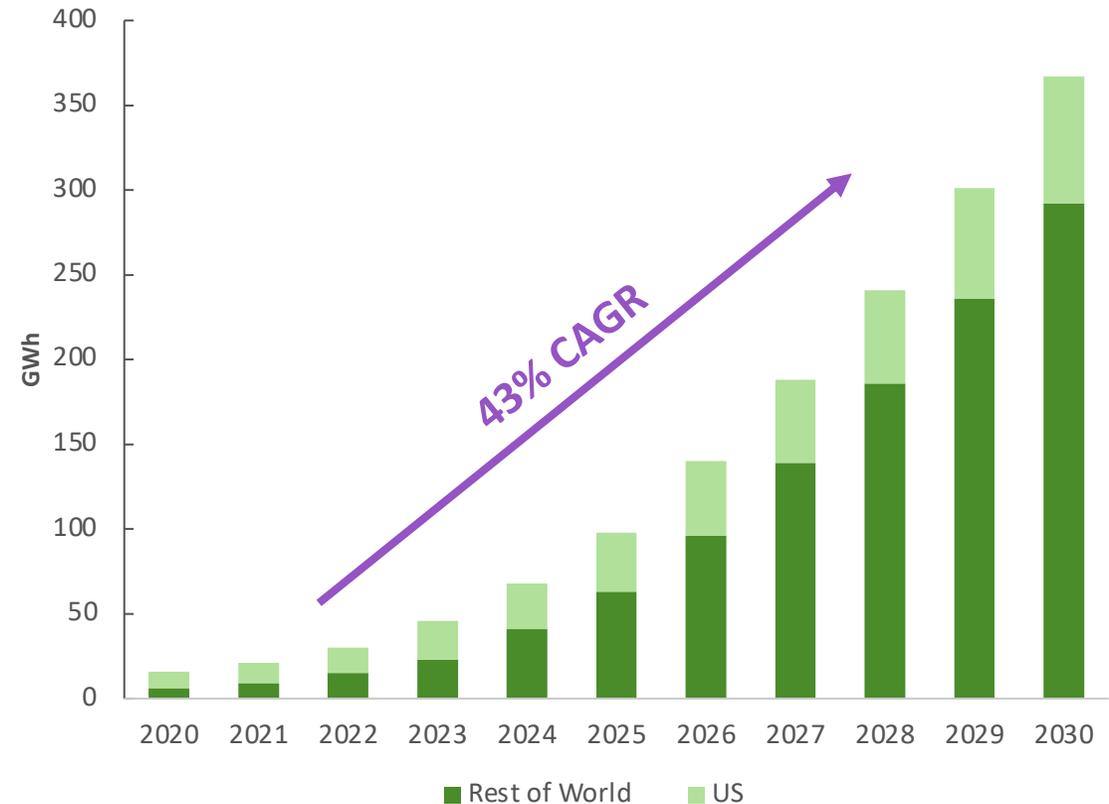
Global Energy Storage Market expected to be **36x larger in 2030 compared to 2020**

Cairn Energy Research Advisors (US)

“**Flow batteries** are potentially going to be a big contributor in stationary energy storage, like the grid level stationary energy storage”

Australia Chief Scientist Alan Finkel

Stationary Energy Storage Forecast



Source: Cairn Energy Research Advisors, 2021

Sustainability



What is Clean Lithium?

Direct Lithium Extraction
High Purity, Low Footprint

Production of High Purity >99.95% Li_2CO_3

Delivery of Longer Battery Life 

Direct Lithium Extraction

No mining / reduced ground disturbance
Processed brine to be returned

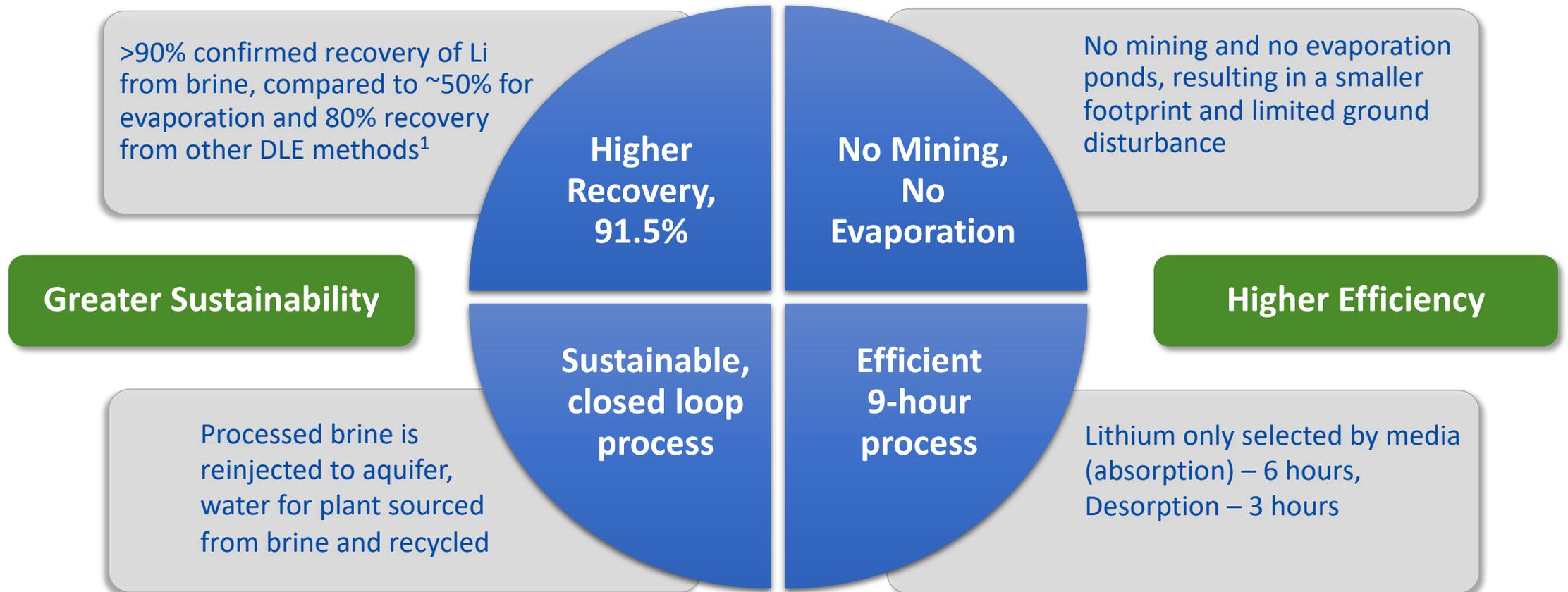
Low Energy and Water Consumption

Lowering emissions



Direct Lithium Extraction (DLE)

Low-cost production of High Purity Lithium with lower emissions



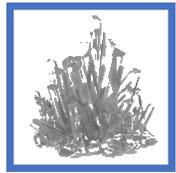
Next Steps



Indicative Timeline



Thank You



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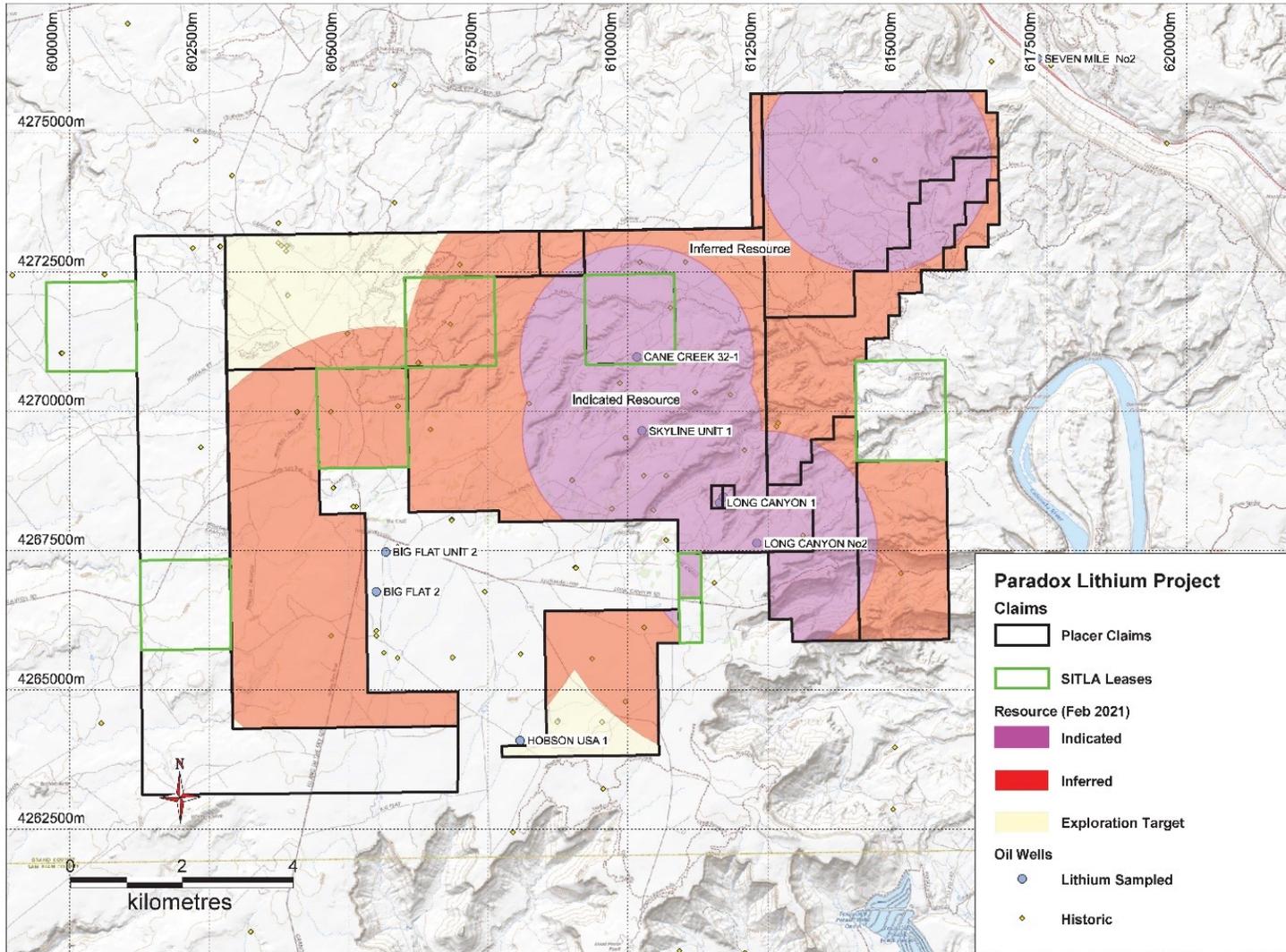
Paradox Lithium Project: Resource & Exploration Target

Resource Category	Formation	Clastic Zone	Brine (Mt)	Contained ('000 t)	
				Li ₂ CO ₃	Br ₂
Indicated	Pennsylvanian, Paradox Formation	31	38	35	126
Inferred			73	68	185
Total Resource		31	111	103	311
Indicated	Pennsylvanian, Paradox Formation	17, 19, 29, 33	39	15	131
Inferred			172	68	570
Total Resource		17, 19, 29, 33	211	83	701
Total Resource			322	186	1,012

Exploration Target		Porosity (%)	Density	Brine (Mt)	Li Grade (ppm)	Li ('000 t)	Li ₂ CO ₃ ('000 t)	Br (ppm)	Br ₂ ('000 t)
Mississippian, Leadville Formation	MIN	14	1.27	1,300	80	104	553	2,000	2,600
	MAX	14	1.27	1,800	140	252	1,340	3,000	5,400
Pennsylvanian, Paradox Formation	MIN	14	1.27	365	50	18	97	2,000	730
	MAX	14	1.27	700	300	110	582	3,000	1,095
Total Exploration Target	MIN			1,655			650		3,330
	MAX			2,500			1,922		6,495

The Exploration Target is conceptual in nature as there has been insufficient exploration undertaken to define a mineral resource for the Leadville Limestone. It is uncertain that future exploration will result in a mineral resource.

Paradox Lithium Project: Resource & Exploration Target



Competent Person's Statement

Competent Person's Statement 1: The information in this presentation that relates to exploration results and geology is based on information compiled and/or reviewed by Mr Greg Knox, a member in good standing of the Australasian Institute of Mining and Metallurgy. Mr Knox is a geologist who has sufficient experience which is relevant to the style of mineralisation under consideration and to the activity being undertaken 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 and consents to the inclusion in this report of the matters based on information in the form and context in which they appear. Mr Knox is a director of Anson and a consultant to Anson.

Mr Knox has reviewed and validated the Exploration Target that was based on an audit and review completed by Auralia Mining Consulting, using historical data used by Anson to calculate the Exploration Target and consents to the inclusion in this report of the matters based on information in the form and context in which they appear.

Competent Person's Statement 2: The information contained in this presentation relating to Exploration Results and Mineral Resource Estimates has been prepared by Mr Richard Maddocks, MSc in Mineral Economics, BSc in Geology and Grad Dip in Applied Finance. Mr Maddocks is a Fellow of the Australasian Institute of Mining and Metallurgy with over 30 years of experience. Mr Maddocks has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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.

Mr Maddocks is an independent consultant to Auralia Mining Consulting Pty Ltd. Mr Maddocks consents to the inclusion in this announcement of this information in the form and context in which it appears. The information in this announcement is an accurate representation of the available data from exploration at the Paradox Brine Project.

Information is extracted from reports entitled 'Anson Obtains a Lithium Grade of 235ppm at Long Canyon No 2' created on 1 April 2019, 'Anson Estimates Exploration Target For Additional Zones' created on 12 June 2019, 'Anson Estimates Maiden JORC Mineral Resource' created on 17 June 2019, 'Anson Re-enters Skyline Well to Increase Br-Li Resource' created on 19 September 2019, 'Anson Confirms Li, Br for Additional Clastic Zones' created on 23 October 2019, 'Anson Granted Additional Paradox Brine Project Claims' created 30 March 2021, 'Paradox Brine Stage 1 Sodium Bromide/Lithium Updated PEA' created 1 September 2021, and all are available to view on the ASX website under the ticker code ASN.

The Group confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Group confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.