



Minerals critical for the energy transition

Gold Coast Investment Showcase Presentation

23 June 2022



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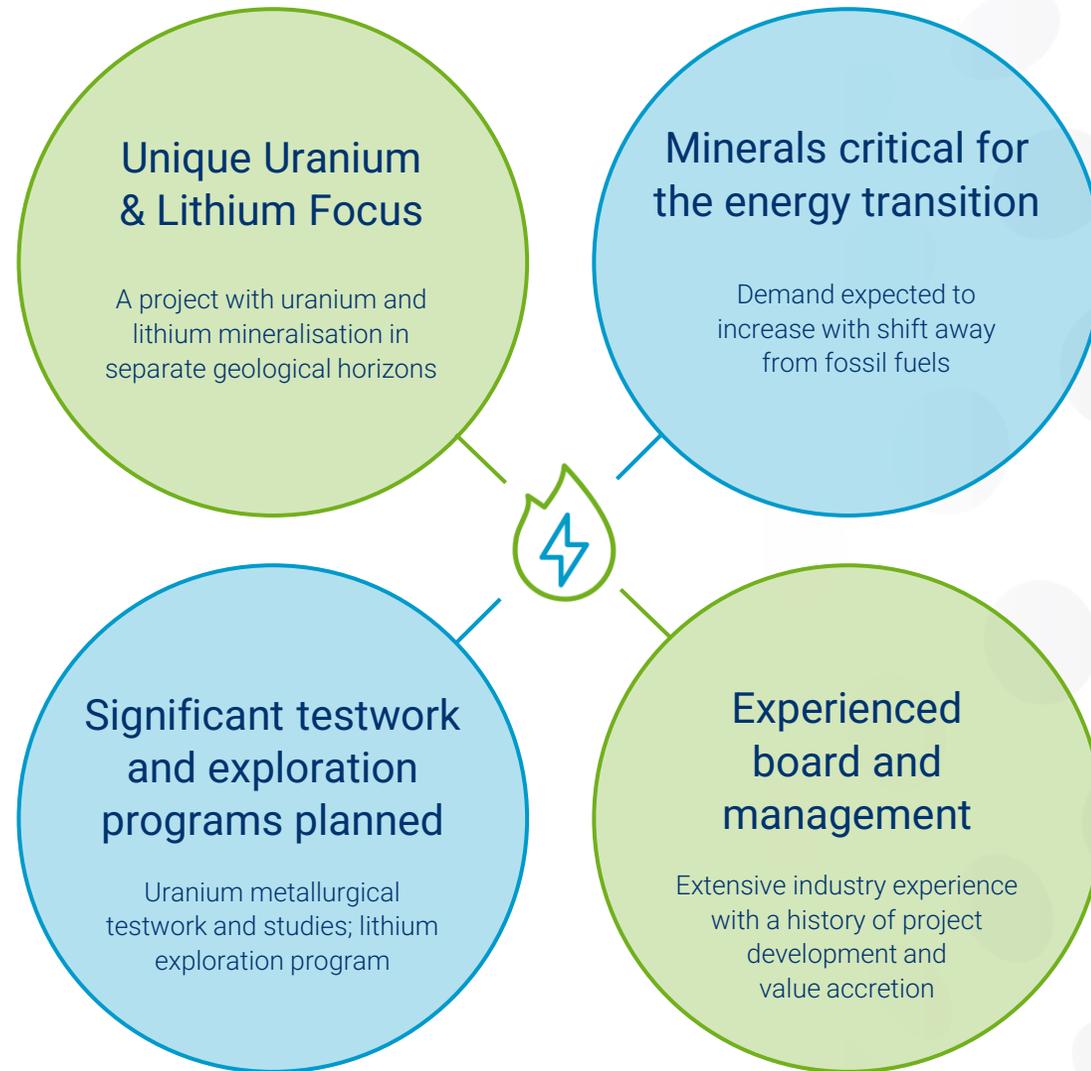
objectives of Aurora Energy Metals Limited are forward-looking statements that involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements.

The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the 'JORC Code') sets out minimum standards, recommendations and guidelines for Public Reporting in Australasia of Exploration Results, Mineral Resources and Ore Reserves. The information contained in this presentation has been presented in accordance with the JORC Code and references to "Inferred Resources" and "Indicated Resources" are to those terms as defined in the JORC Code.

Information in this presentation relating to Exploration results and Mineral Resources is based on information compiled by Mr Lauritz Barnes (a consultant to Aurora Energy Metals Limited and a shareholder) who is a member of The Australian Institute of Mining and Metallurgy and The Australian Institute of Geoscientists. Mr Barnes has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person under the 2012 Edition of the Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Barnes consents to the inclusion of the data in the form and context in which it appears.

This announcement has been authorised for release on the ASX by Greg Cochran, Managing Director.

Investment Summary



Corporate Overview

Well funded advanced explorer with a tight capital structure

Capital Structure (on an undiluted basis, as at 16/06/2022)

1AE

ASX Code

142.6m

Shares on Issue (inc. 26m escrowed)

\$37M

Market Cap (at \$0.26 per share)

8.8m

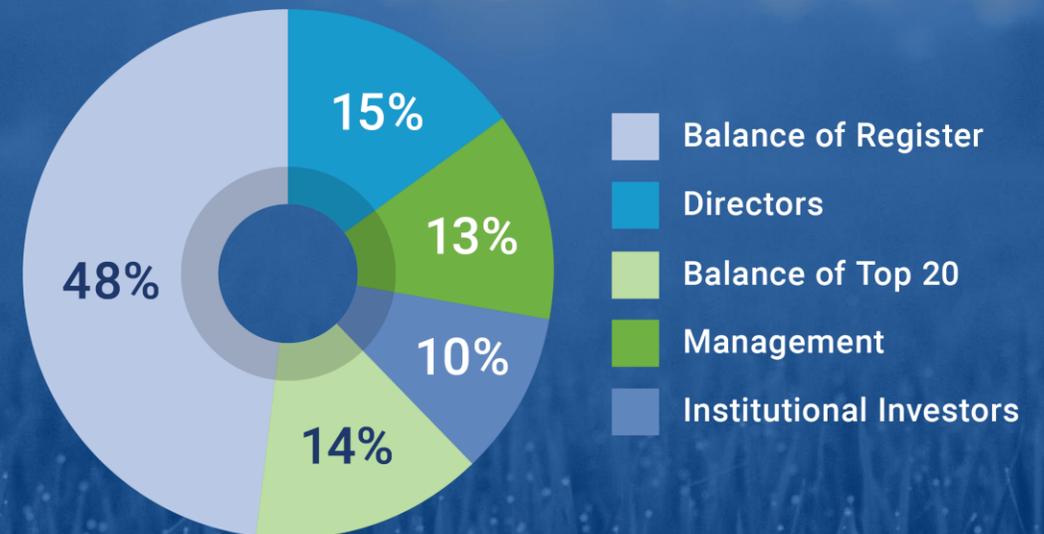
Options (6m @ \$0.20; rest at \$0.30)

~\$7.5M

Cash

~\$29.5m

Enterprise Value



Board & Management

Extensive industry experience with a history of project development and value accretion



PETER LESTER
Non-Executive Chairman

A mining engineer with over 40 years' industry experience. Has held senior executive positions with North Ltd, Newcrest Mining Limited, Oxiana/Oz Minerals Limited and Citadel Resource Group Limited. Peter's experience covers operations, projects and business development and general corporate activities including financial services.

He has served on several ASX listed and private mining boards and is currently Non-Executive Chairman of White Rock Minerals Ltd and Helix Resources Ltd and previously of Kidman Resources Ltd and Doray Minerals Ltd.

Peter is a member of the AICD and the AusIMM and holds a B.E. (Mining honours).



GREG COCHRAN
Managing Director

A highly experienced international mining executive with over 30 years' experience in technical and commercial roles, general management and executive positions globally.

Most recently, Greg was CEO of Reward Minerals and prior to that Managing Director of Namibian-focussed uranium developer Deep Yellow Limited (2011-16). He has extensive uranium experience, having also spent four years with Uranium One Inc (2006-09).

He is a graduate member of the AICD and a Fellow of the AusIMM. He holds a MSc. in Mining Engineering and Mineral Economics from the University of the Witwatersrand and an MBA from Cranfield School of Management (UK).



ALASDAIR COOKE
Non-Executive Director

Mr Cooke has over 30 years' experience in resource exploration and mining throughout Australia and internationally, initially as part of BHP Minerals Business Development Group and the last 20 years managing public resource companies as part of the Mitchell River Group (MRG).

MRG successfully incubated numerous resource companies and developed mining operations over the past twenty years, including Sally Malay Mining (now Panoramic Resources), Albidon, Mirabela Nickel and Exco Resources.

He holds a first-class honours degree in Geology and a bachelor's degree in Science from the University of Western Australia and is a member of the Australian Institute of Geoscientists.



STEVEN JACKSON
Company Secretary

A member of CPA Australia who graduated from the University of Western Australia in 2008 with a Bachelor of Economics. Majored in International Business Economics and Money and Banking.

Project Location and Highlights

Aurora Energy Metals Project

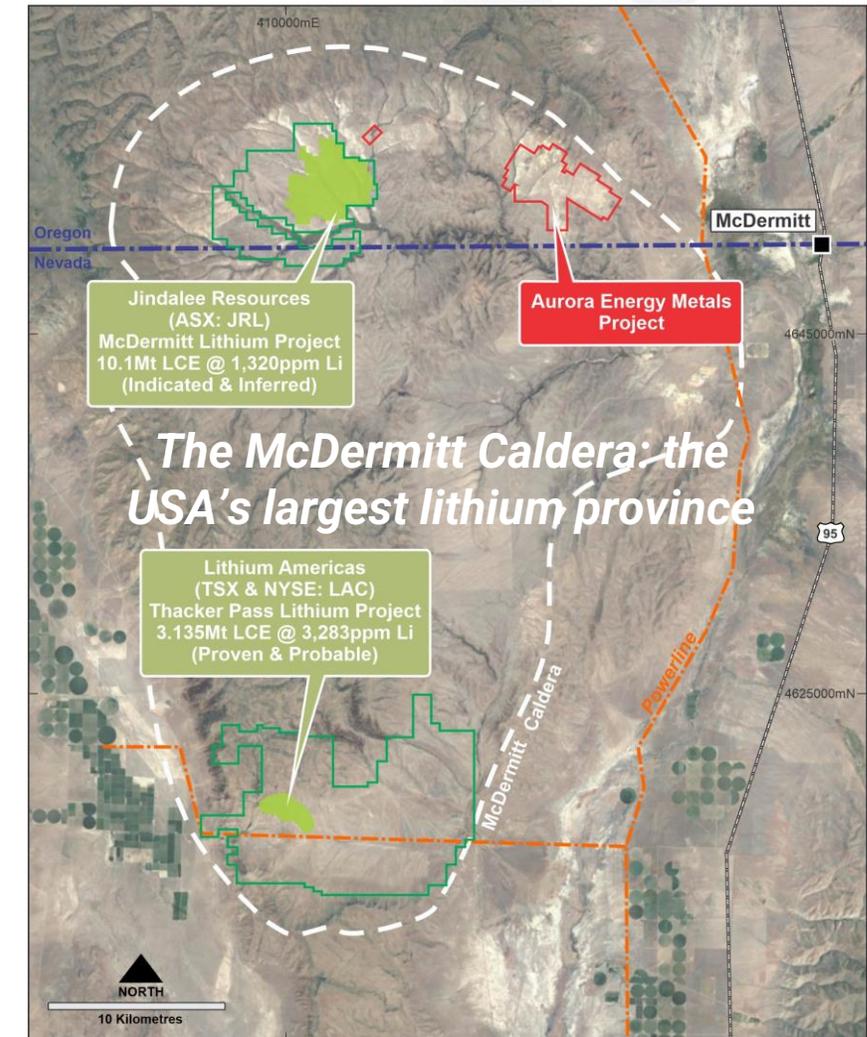
- Located in south-eastern Oregon, USA.
- Well-defined existing Uranium Mineral Resource of 69.3Mt @ 248 ppm eU₃O₈ for 37.9Mlb eU₃O₈.
- Confirmed lithium mineralisation in sediments overlying and surrounding the uranium resource.
- Close to two other major lithium projects.
- Proximal to Tesla's Gigafactory 1, near Reno, Nevada.
- Excellent infrastructure.
- Low-risk jurisdiction with bipartisan support for minerals critical to the world's energy transition.
- Well understood regulatory and permitting process with State and Federal agencies.

Tesla Gigafactory 1



Aurora Energy Metals Project (“AEMP”) Geological Overview

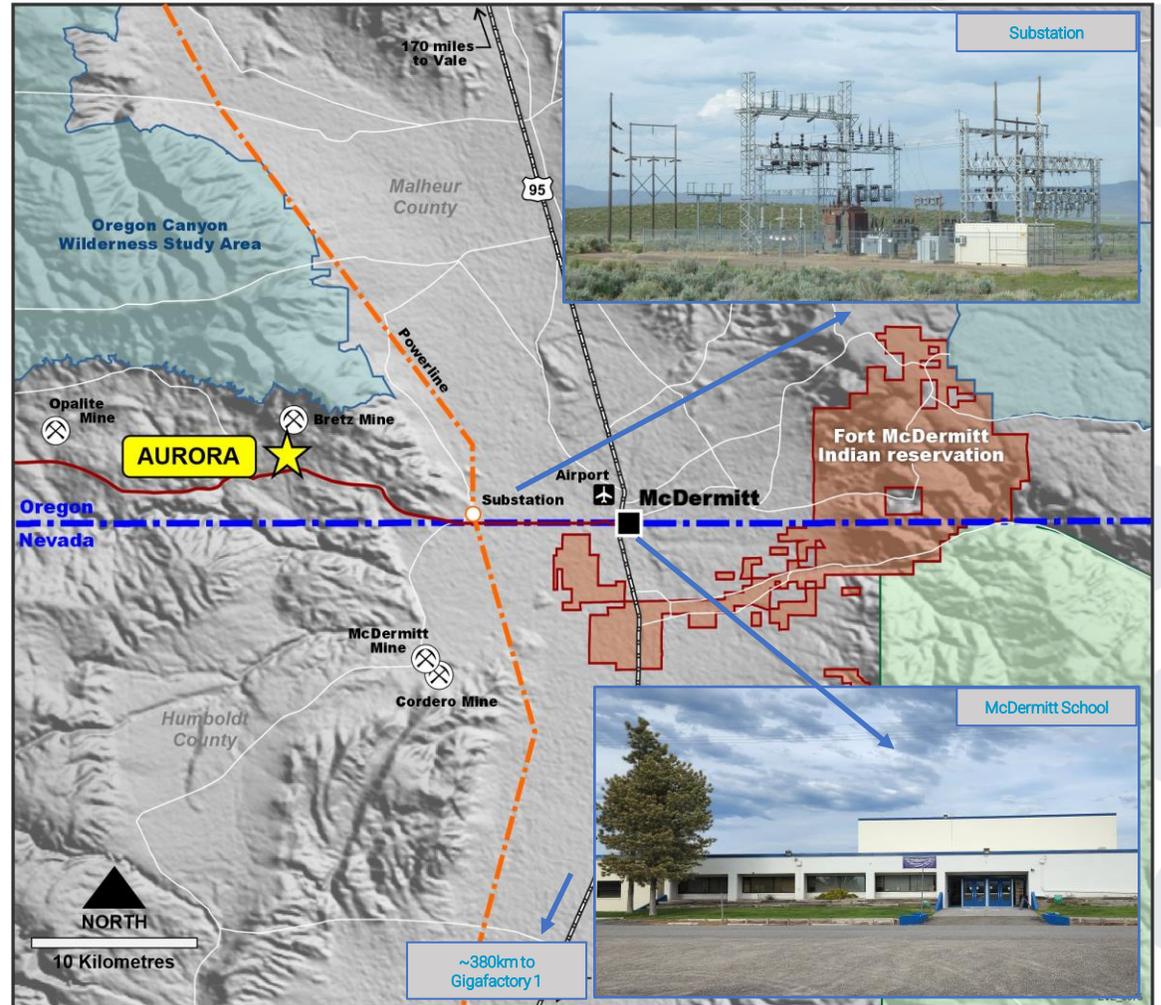
- Located in the McDermitt Caldera, the USA’s largest lithium province, on federal land.
- An existing, well-defined, significant Uranium Mineral Resource in shallow volcanics, with a high grade core at unconformity, below overlying lakebed sediments.
- Lithium mineralisation intersected above the uranium resource (e.g. 9.1m @ 2,414 ppm Li from 21.9m, 7.3m @ 2,431 ppm Li from 50.3m) hosted in lakebed sediments.
- Lakebed sediments thicken (~200m) in all directions beyond the uranium resource.
- Lithium mineralisation similar to nearby projects, such as Jindalee Resources’ McDermitt Li Project¹ (ASX:JRL, Indicated & Inferred MRE 1.43Bt at 1,320ppm Li for 10.1Mt LCE).
- Potential for two geologically separate resources to be simultaneously delineated and developed, providing commodity diversification and economies of scale.



1. Refer Jindalee Resources ASX Announcement 8 April 2021

AEMP – Uranium and Project Infrastructure

- Volcanic-hosted deposit, discovered in 1979.
- Over 600 drillholes completed, plus extensive metallurgical testwork and studies.
- Near surface, flat-lying geometry amenable to very low strip ratio open-pit mining.
- Low-cost mining possible due to free-dig lake sediment overburden.
- Majority of uranium contained within fine fraction, amenable to low-cost scrubbing and screening upgrades.
- Excellent infrastructure with sealed roads and renewable power (hydro) nearby – tangible ESG advantage.
- A historic mining district.



Excellent infrastructure

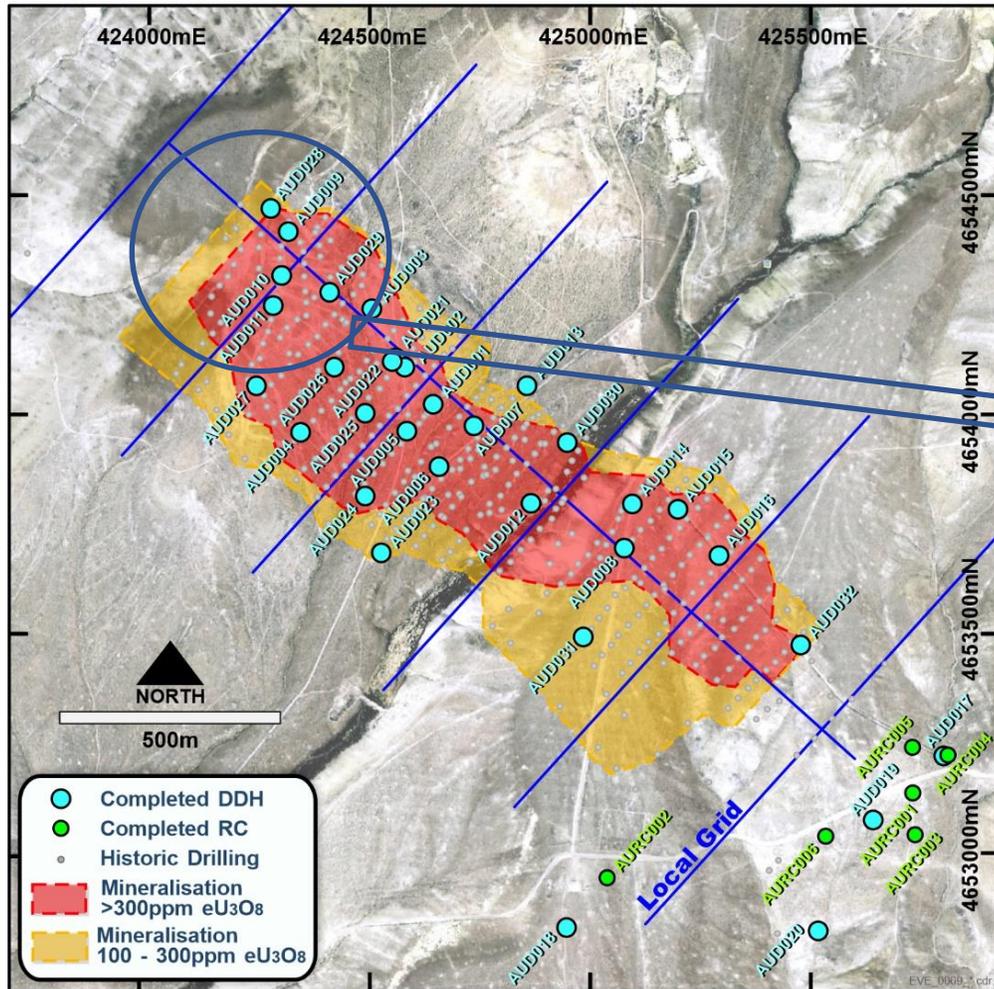
AEMP – Uranium

- Previous studies demonstrated a conventional open pit mine:
 - Shallow, low-strip ratio operation.
 - Overburden potentially free-dig.
- Indicated Resource: 36.7 Mlb U_3O_8 at 253 ppm eU_3O_8 .
- Higher grade, upper core zone of 18 Mlb at 444 ppm eU_3O_8 .
- On-site full or partial processing plants.
- Overburden is mineralised lakebed lithium sediments, which when removed could be stockpiled and processed later.



Previous Conceptual Layout (Uranium Only)

AEMP – Uranium – Potential Resource Upside



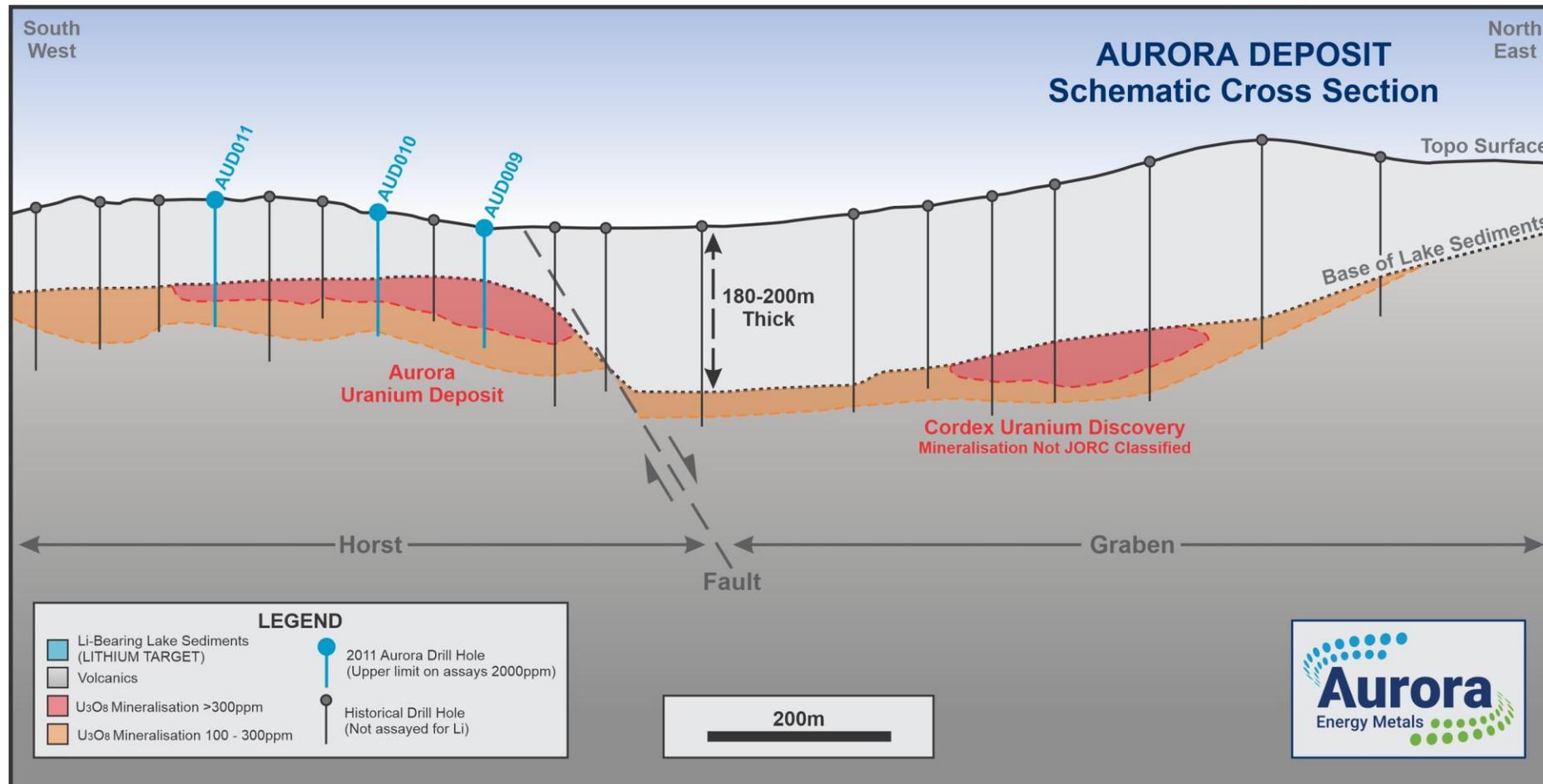
Hole ID	From (m)	To (m)	Interval (m)	eU ₃ O ₈ (ppm)
AUD009	62.2	70.4	8.2	753
AUD010	57.6	97.8	40.2	672
including	57.6	76.8	19.2	1161
including	85	88.7	3.7	584
AUD011	56.7	63.1	6.4	596
and	71.3	76.8	5.5	413
AUD028	86	131.7	45.7	488
including	86.9	93.3	6.4	712
including	101.5	130.8	29.3	545
AUD029	39.3	61.3	22	513
including	40.2	43.9	3.7	937
including	50.3	60.4	10.1	623
and	65.8	81.4	15.5	408

The 2011 results have not been incorporated into the current resource

Location of 2011 drill holes overlain on imagery and resource outline

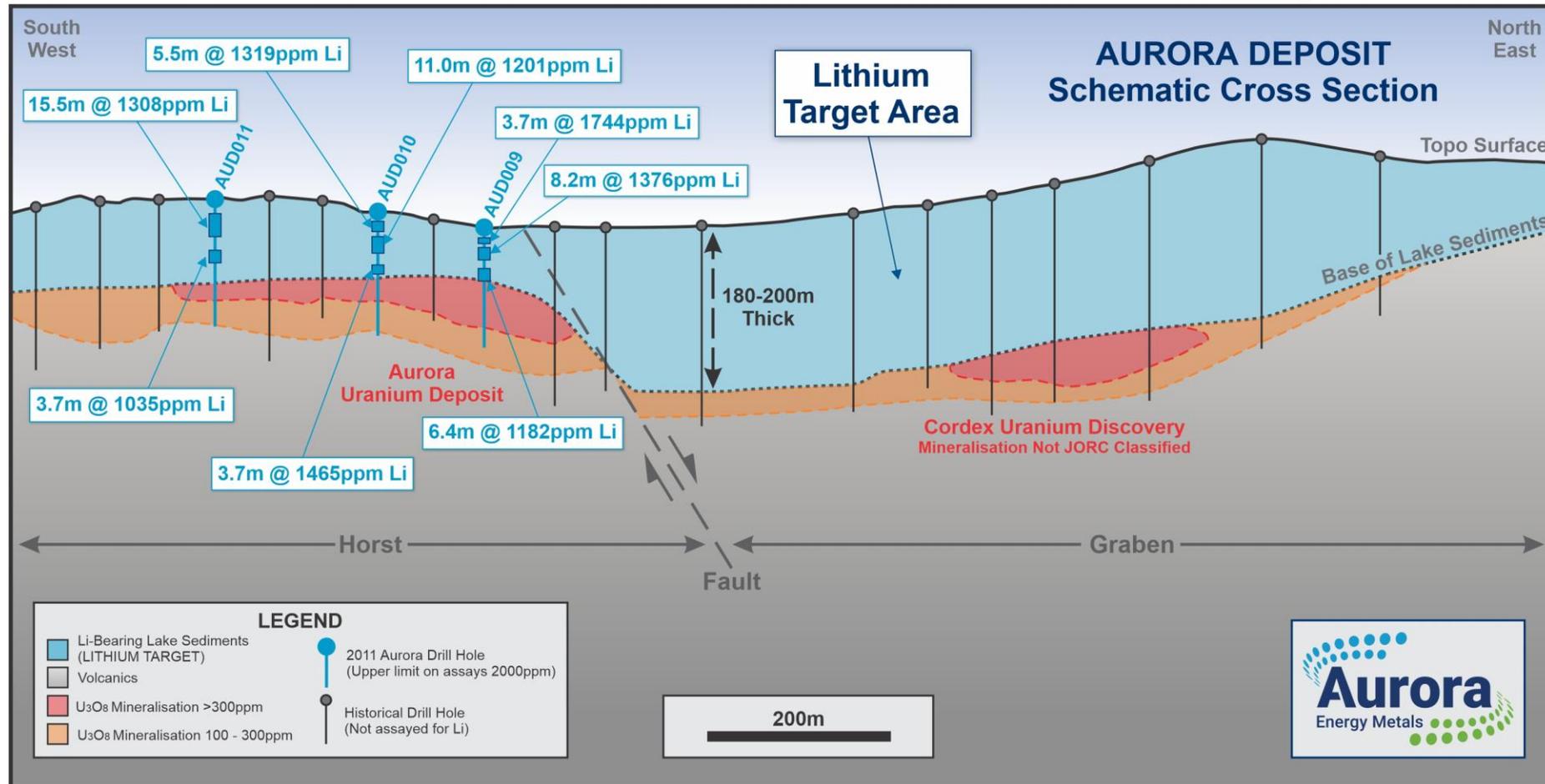
AEMP – Uranium *and* Lithium

- Historically, uranium was the only target since the 1970's
- Aurora's priority in 2011 was to confirm previous uranium exploration



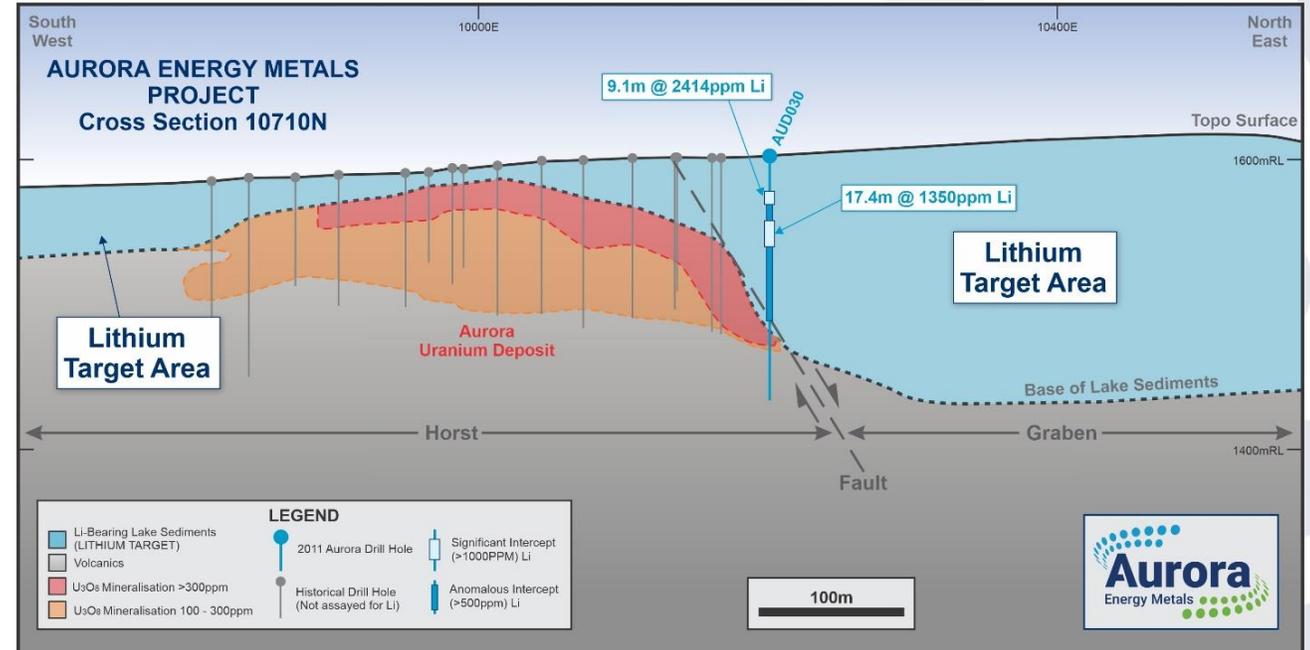
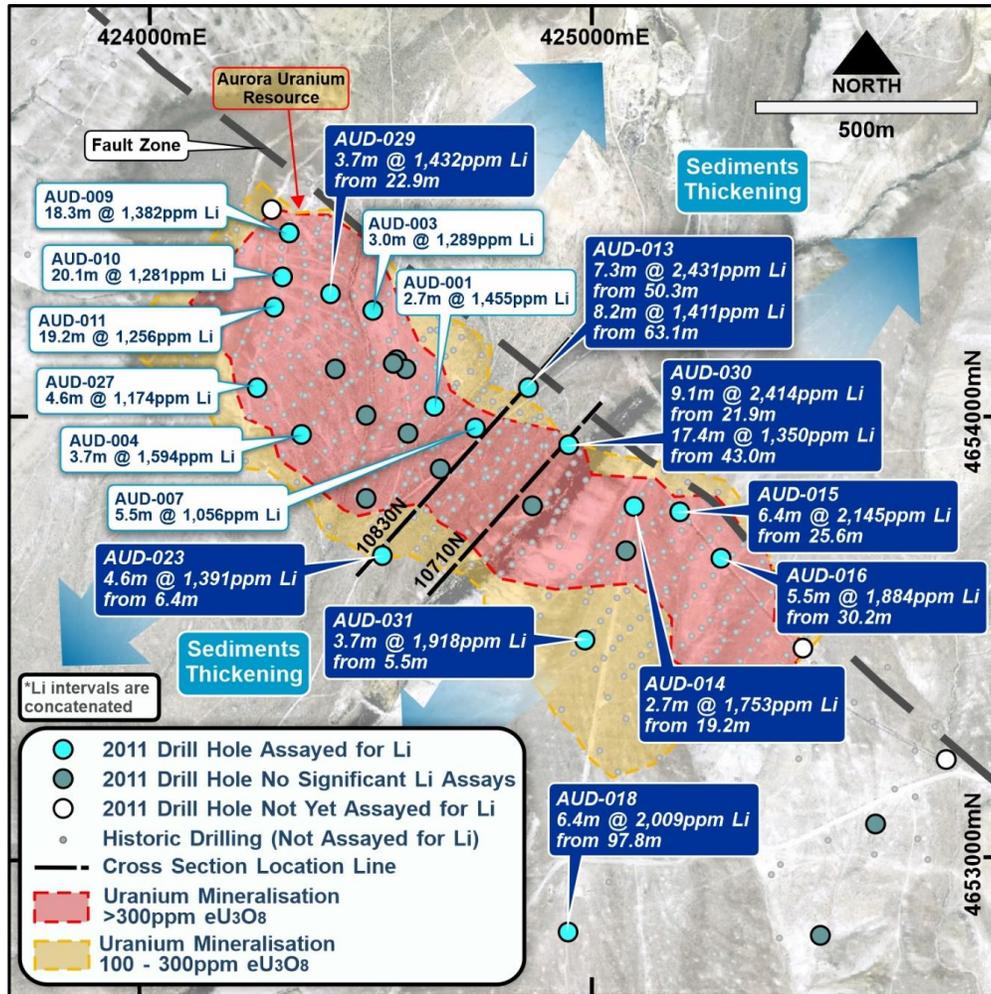
AEMP – Uranium *and* Lithium

- But with Lithium Americas' progress on its Thacker Pass Projects, Aurora assayed for lithium
- Lithium was confirmed, allowing the interpretation of a large lithium exploration target area



AEMP – Lithium

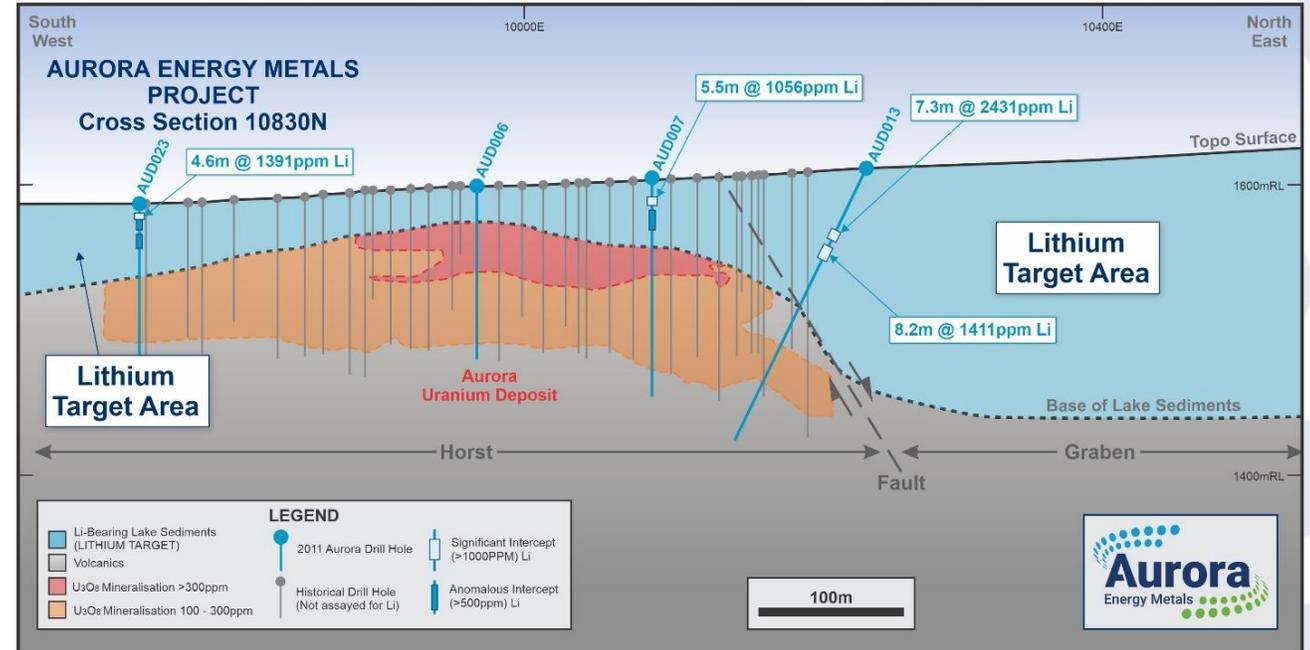
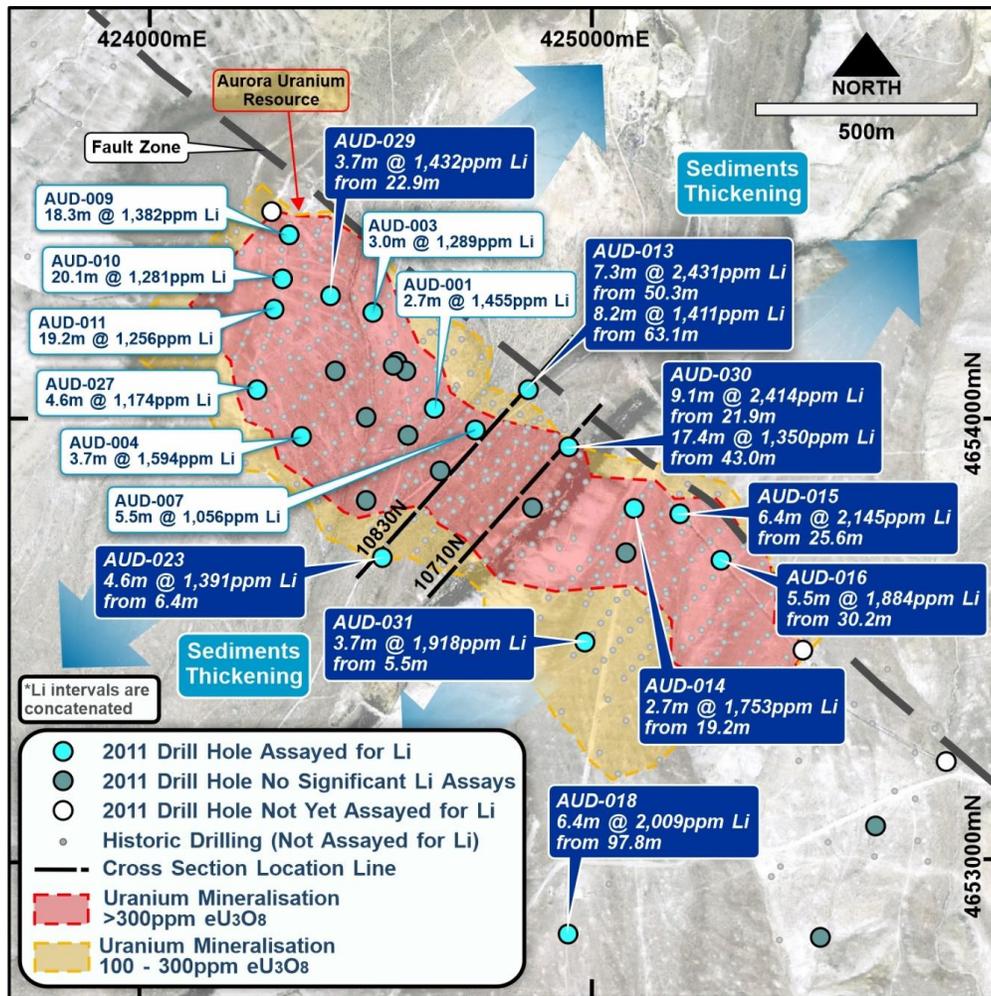
- The remaining core, securely stored for 10 years, has now been assayed for lithium, returning encouraging results



Note: 2414 ppm Li = 0.520% Li₂O

AEMP – Lithium

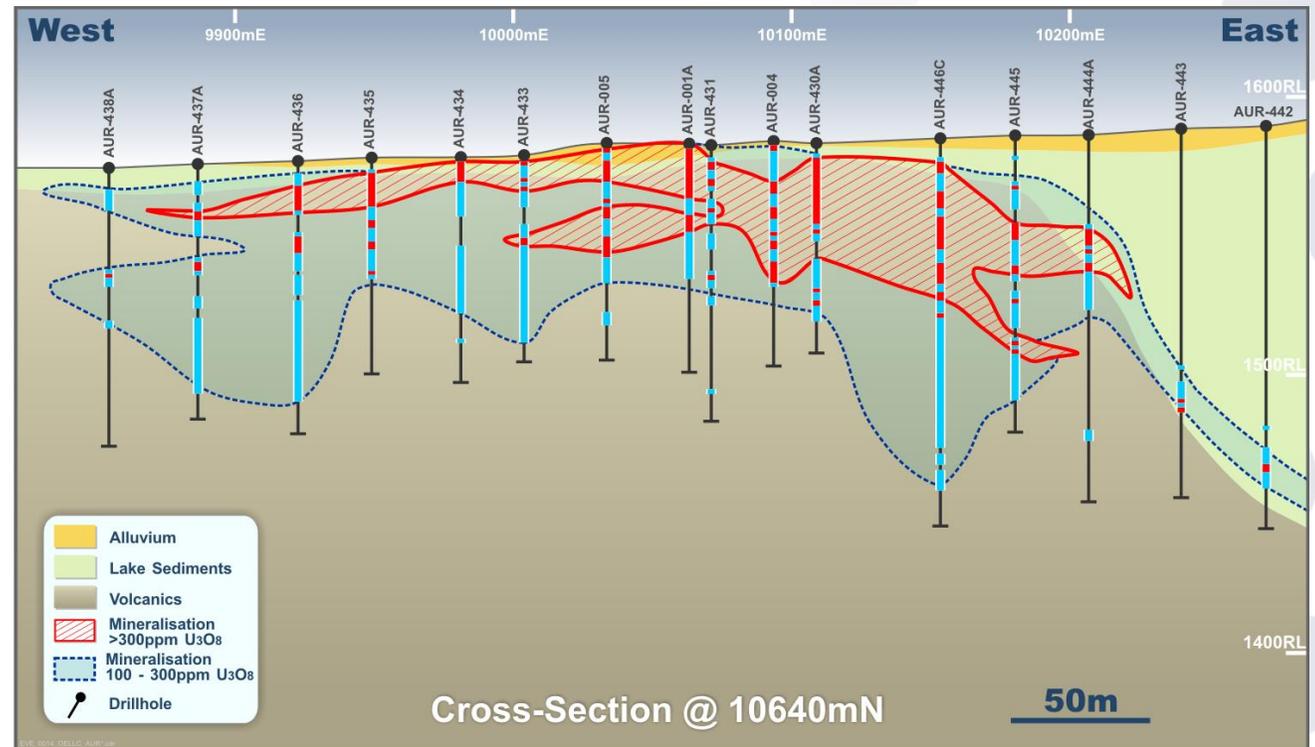
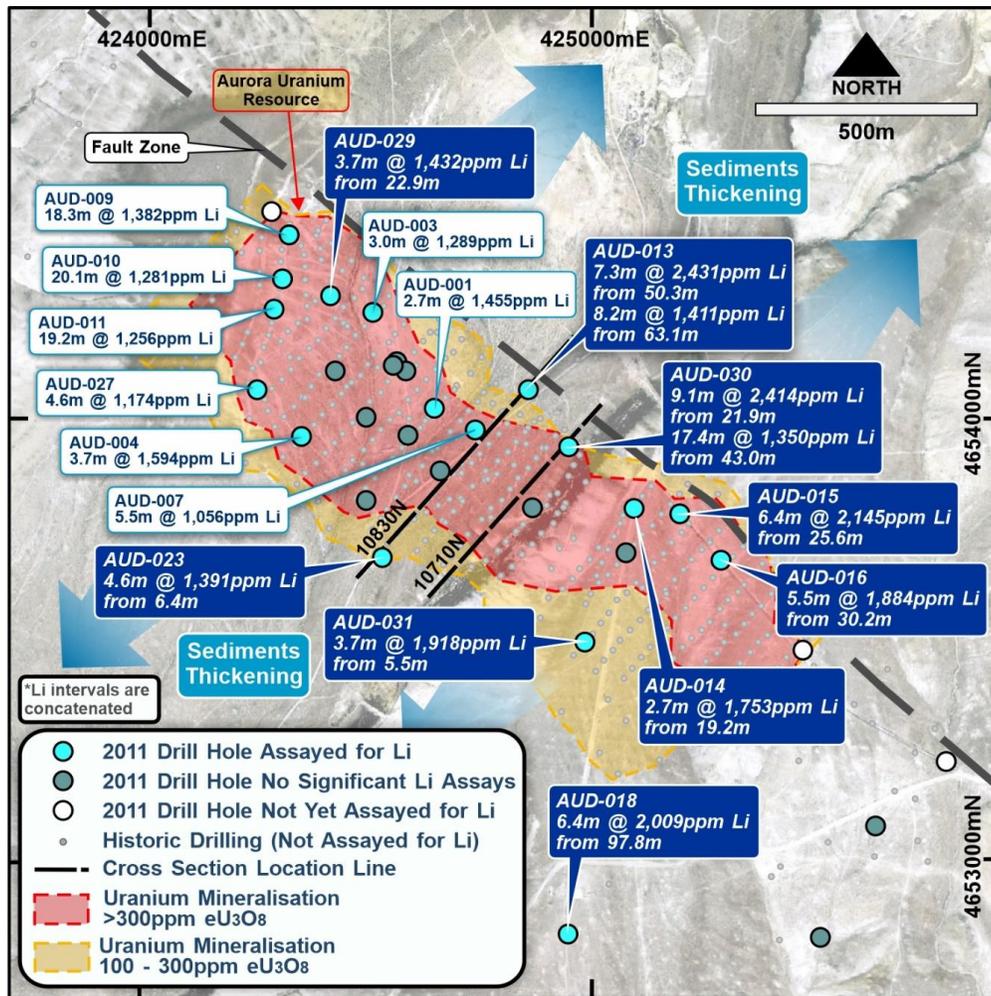
- The remaining core, securely stored for 10 years, has now been assayed for lithium, returning encouraging results



Note: 2431 ppm Li = 0.523% Li₂O

AEMP – Lithium

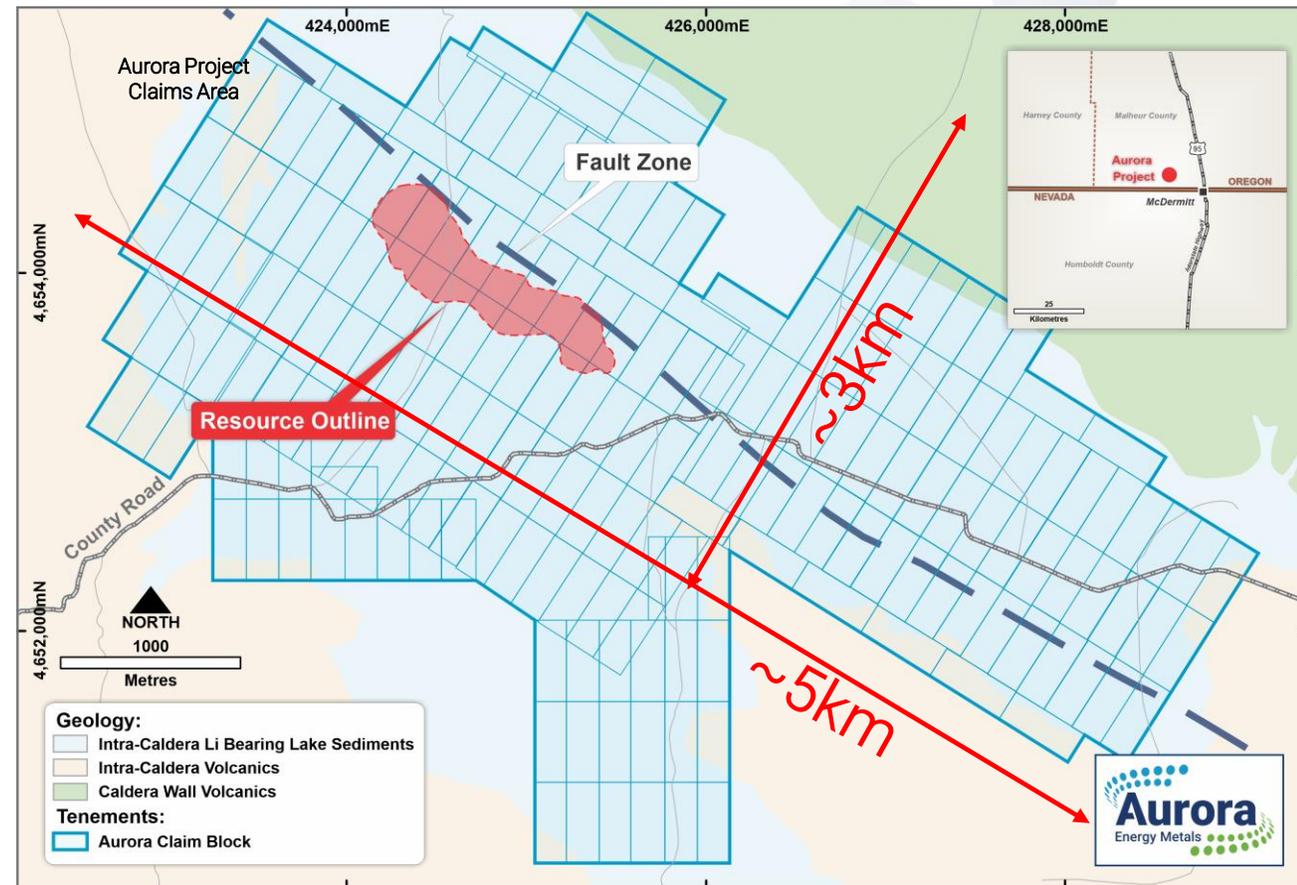
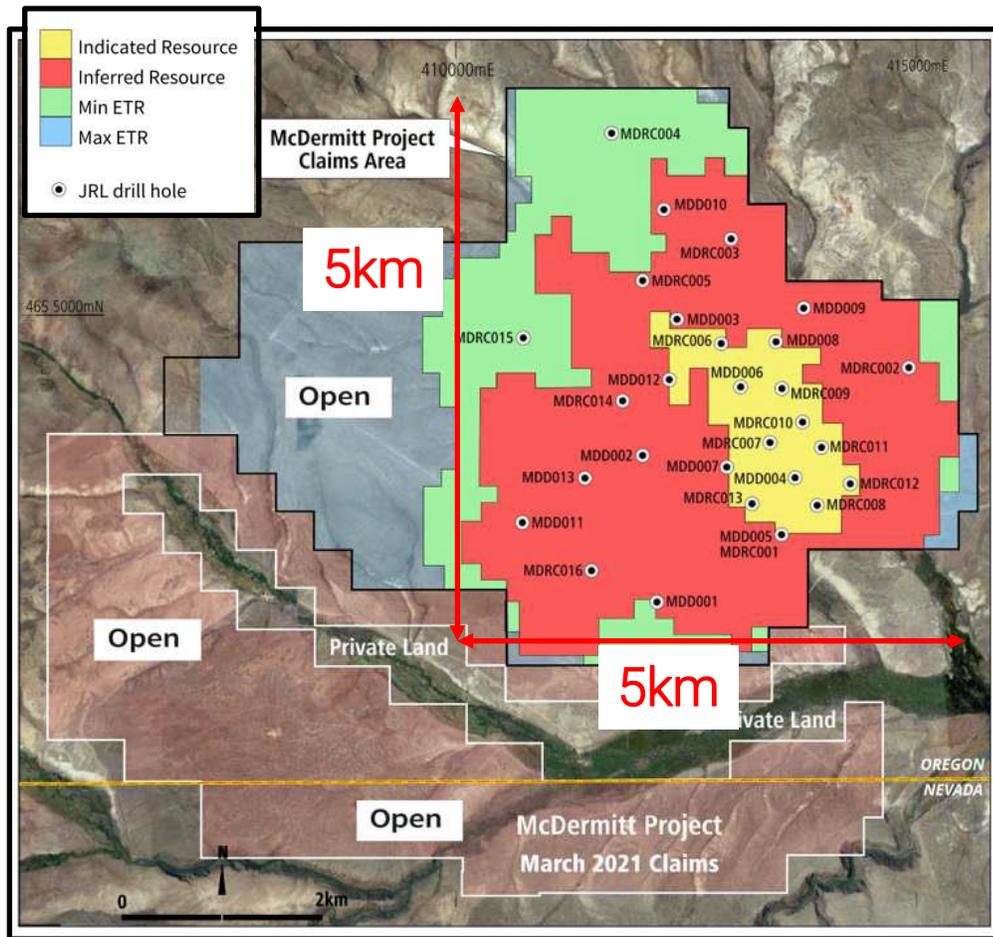
- The uranium deposit often runs close to surface, which explains the lack of significant lithium intersections along the centre line



Uranium Cross-Section 10640mN (Local Grid)
Looking Northwest – Placer Drilling

AEMP – Lithium Exploration Potential

- AEMP's current claim area is similar in size to Jindalee's McDermitt Lithium Project and the Aurora Uranium Deposit is only a small part of the claim area



US Vision for the Lithium-Battery Supply Chain

Federal Consortium for Advanced Batteries National Blueprint

“By 2030, the United States and its partners will establish a secure battery materials and technology supply chain that supports long-term US economic competitiveness and equitable job creation, enables decarbonization, advances social justice, and meets national security requirements.”

Goals to Achieve the Vision

AURORA'S
FOCUS

- Goal 1: Secure access to raw and refined materials and discover alternatives for critical minerals for commercial and defence applications
- Goal 2: Support the growth of a US materials-processing base able to meet domestic battery manufacturing demand
- Goal 3: Stimulate the US electrode, cell, and pack manufacturing sectors
- Goal 4: Enable US end-of-life reuse and critical materials recycling at scale and a full competitive value chain in the U.S.
- Goal 5: Maintain and advance U.S. battery technology leadership by strongly supporting scientific R&D, STEM education, and workforce development

Recent US Political Developments Support Industry



Bipartisan support for programs supporting critical minerals gathering momentum

In addition to the “Federal Consortium for Advanced Batteries National Blueprint” which was released recently, the “Permitting Action Plan” was announced on 10 May.

As the Biden administration continues to release additional funds from the Infrastructure Investment and Jobs Act, White House officials are also trying to speed-up project approval processes.

The Permitting Action Plan has 5 principle components

- Coordinating permitting activities among multiple federal agencies
- Setting clear goals for reviews and permitting schedules and deadlines
- Connecting early in the process with states, localities and tribal nations
- Making federal agencies more responsive by developing tools to help guide stakeholders through the project review process
- Increasing agencies’ resources to handle assessments of projects’ effects on the environment, local communities and impact on climate change

“These five elements will result in better permitting outcomes, enhanced predictability for project sponsors and increased accountability across federal agencies.” Brenda Mallory, chairwoman of the White House Council on Environmental Quality.

Sources:
1. The White House Briefing Room. FACT SHEET: Biden-Harris Administration Releases Permitting Action Plan to Accelerate and Deliver Infrastructure Projects On Time, On Task, and On Budget. May 11, 2022.
2. Engineering News-Record. White House Rolls Out 'Action Plan' to Speed Project Permitting. May 11, 2022.

Work Plan – Uranium News flow



- Drill permitting for existing uranium resource area (Q2 CY2022).
- Convert existing mineral resource to Measured status (Q3 CY2022). (No additional drilling required.)
- Drill program to test potential resource extension (& generate core for metallurgical testwork – TBD) (Q3 CY2022).
- Conduct metallurgical testwork review (Q3 CY2022).
- Metallurgical testwork (Q4 CY2022)
- Pre-Feasibility Study (H1 2023).



2011 drilling program

Work Plan – Lithium News flow



- Re-assay existing core from sediments overlying existing uranium mineral resource (Q3 CY2022).
- Drill permitting for area surrounding uranium resource (Q2/Q3 CY2022).
- Drill program (Q3 CY2022).
- Define lithium exploration target (assuming success from drill program) (Q4 CY2022).
- Targeting maiden lithium mineral resource (H1 CY2023).



Core relocated to laboratory in Reno for lithium assays

Investment Proposition



Minerals critical for the energy transition



Large advanced project with dual commodity focus



Accelerated exploration program planned



Quality management team

Four key reasons to invest in Aurora Energy Metals

Appendices

Uranium Resource Summary

- Total Resource of 38 Mlb @ 248 ppm eU₃O₈*.
- Indicated Resource of 36.7 Mlb @ 253 ppm eU₃O₈*.
- Shallow high-grade zone, Indicated Resource of 18 Mlb @ 444 ppm eU₃O₈*.
- High grade zone surrounded by low grade mineralisation; extends mineralised zone at depth.

Resource Zone	Indicated Resource			Inferred Resource			Total Resource		
	Mt	eU ₃ O ₈ ppm	Mlb eU ₃ O ₈	Mt	eU ₃ O ₈ ppm	Mlb eU ₃ O ₈	Mt	eU ₃ O ₈ ppm	Mlb eU ₃ O ₈
High Grade Zone ¹	18.4	444	18.0	-	-	-	18.4	444	18.0
Low Grade Zone ²	47.3	179	18.7	3.6	151	1.2	50.9	177	19.9
Total	65.7	253	36.7	3.6	151	1.2	69.3	248	37.9

1. High grade zone estimated using a 300 ppm eU₃O₈ cut-off
2. Low grade zone estimated using a 100 ppm eU₃O₈ cut-off

Notes:

1. Appropriate rounding applied
2. The term eU₃O₈ refers to an equivalent uranium oxide grade that is based on the conversion of a radiometric gamma log determination of radioactive mineral abundance to a calculated uranium content. True U₃O₈ values are obtained from direct chemical assay results.

JORC Disclaimer:

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Information in this announcement relating to Mineral Resources is extracted from the Prospectus released by the ASX on 16 May 2022. Aurora Energy Metals Limited confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the Mineral Resource continue to apply and have not materially changed. Aurora Energy Metals Limited confirms that the form and context in which the Competent Persons' findings are presented in this announcement have not been materially modified from the original market announcement.



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