



# Investor Update February 2025

Unearthing South Australia's Hidden Treasures

**ASX: MEU** 

### **CORPORATE SNAPSHOT**



Capital Structure	
Shares on Issue	1,178 m
Options	0
Unlisted Options	11.5 m
Market Cap (at \$0.055 / share)	~ \$ 64 m
Cash (at 24 Feb 2025)	\$ 6.1m
Debt	\$0

Top 20	~ 40%
Top 50	~ 53%
Top 100	~ 65%



Board & Management



**Dr Colin Rose**Executive
Chairman



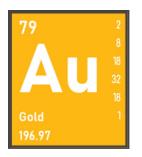
Neville Bergin Non-Executive Director



Aaron Brown
Executive
Director

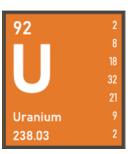
- > Lower costs
- > Less dilution
- > More exploration

### **Three outstanding Projects**



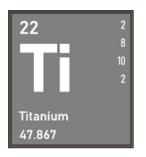
#### GOLD AURORA TANK

Aurora Tank exploration wrapping up. Commencing JORC, resource work, pit design, scoping study.



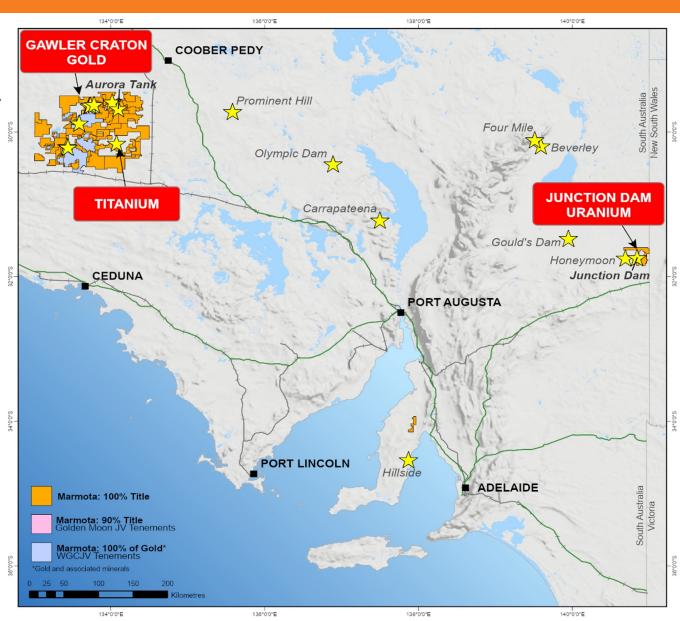
#### **URANIUM JUNCTION DAM**

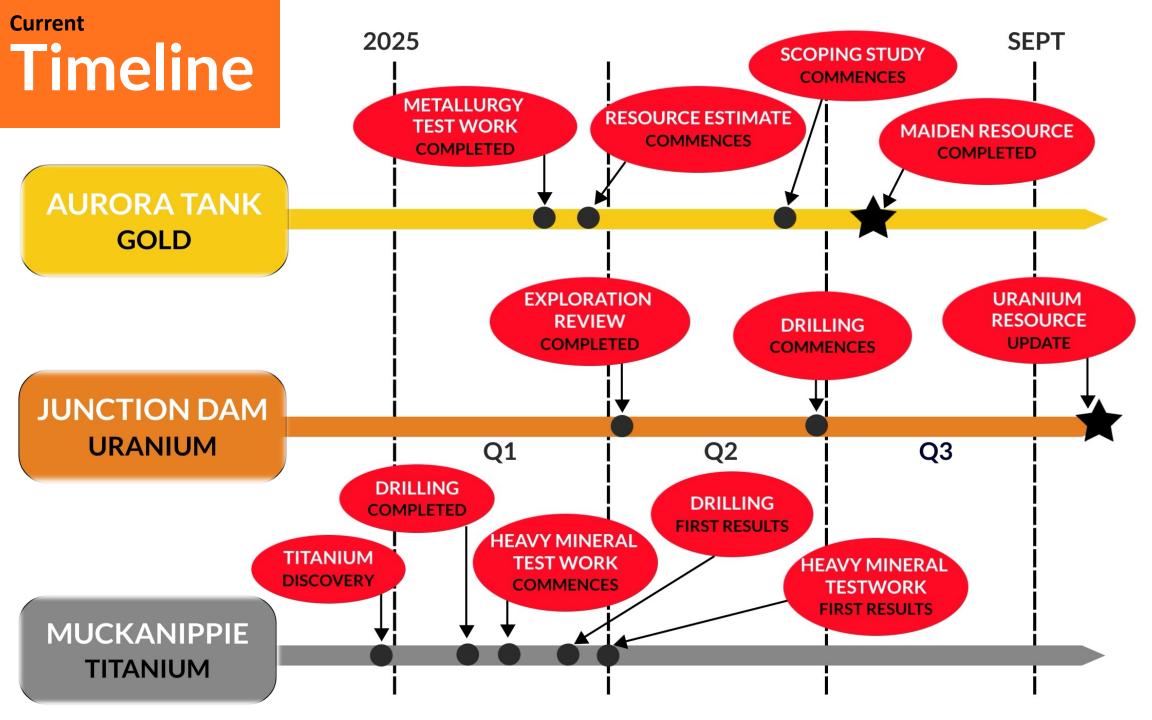
As Aurora Tank wraps up, 2025 exploration focus shifts to grow our uranium resource and new titanium discovery.



#### TITANIUM MUCKANIPPIE

The cherry on top! Exceptional thick rich titanium mineralisation, making Marmota a multi-commodity play.





# **GOLD**



**Fundamentals** 

2022 AGM

2023 AGM

2024 AGM

Gold Price (AUD\$/OZ)

~AUD \$ 2,500

~AUD \$ 3,050

~AUD \$ 4,050

### 24-month Gold Price (AUD)



ASX:MEU



# Aurora Tank Gawler Craton

# Aurora Tank Gold

# ~ 100 g/t Au over 1m in 5 different zones

Grade	Location	Depth from Surface	HoleID	Date of Result
93 g/t	Central east zone	28 m	17ATAC021	ASX:MEU 4 Sept 2017
105 g/t <sup>2</sup>	Bottom of NW flank	33 m	18ATRC104	ASX:MEU 7 May 2019
120 g/t	South zone	18 m	19ATAC049	ASX:MEU 19 Sept 2019
197 g/t	extension to NW flank	57 m	20ATRC324	ASX:MEU 4 Feb 2021, 22 Feb 2022
217 g/t	extension to SW	103 m	22ATRC024	ASX:MEU 29 Sept 2022

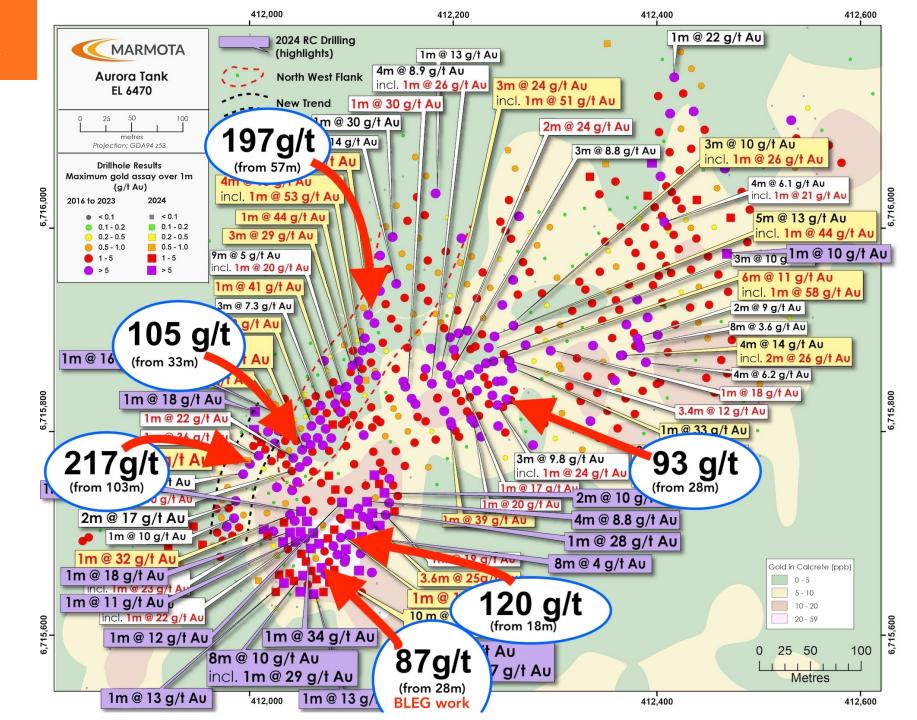
### **Aurora Tank**

### Plan view

Location and grade of best intersections over 1m (circled)

(Depth from surface)

2024 RC drilling highlights in purple boxes



Source: ASX:MEU 20 Jan 2025

# November 2024 assay results

RC program designed to try close off open sections ... instead found thick rich high-grade extensions at south

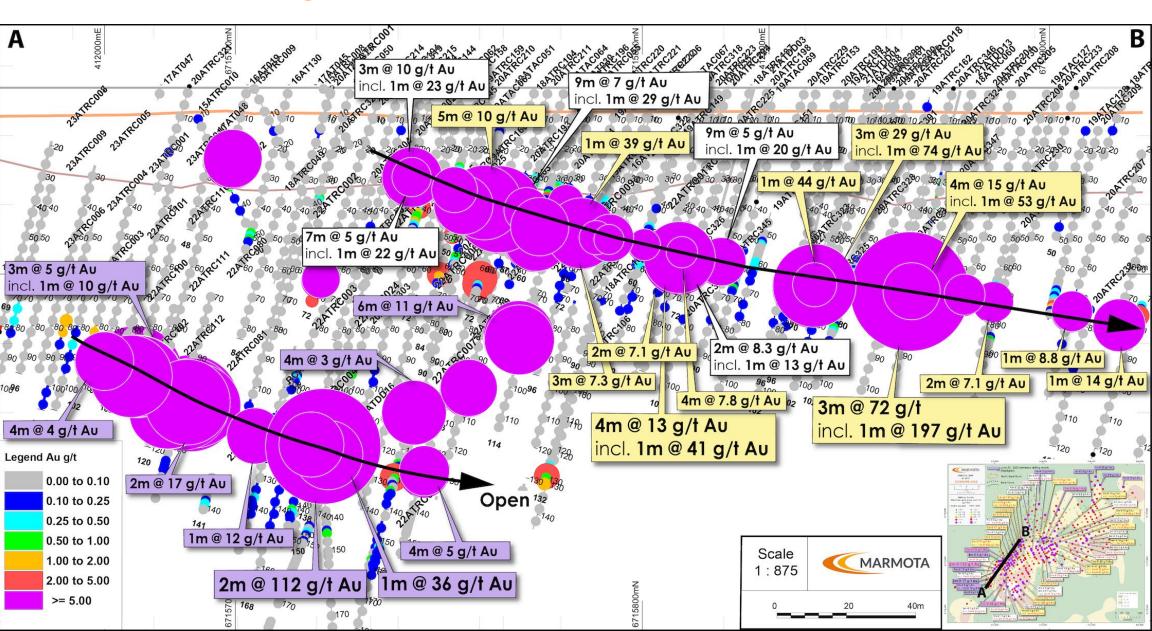
New high-grade 1m intercepts over 14 g/t gold include:

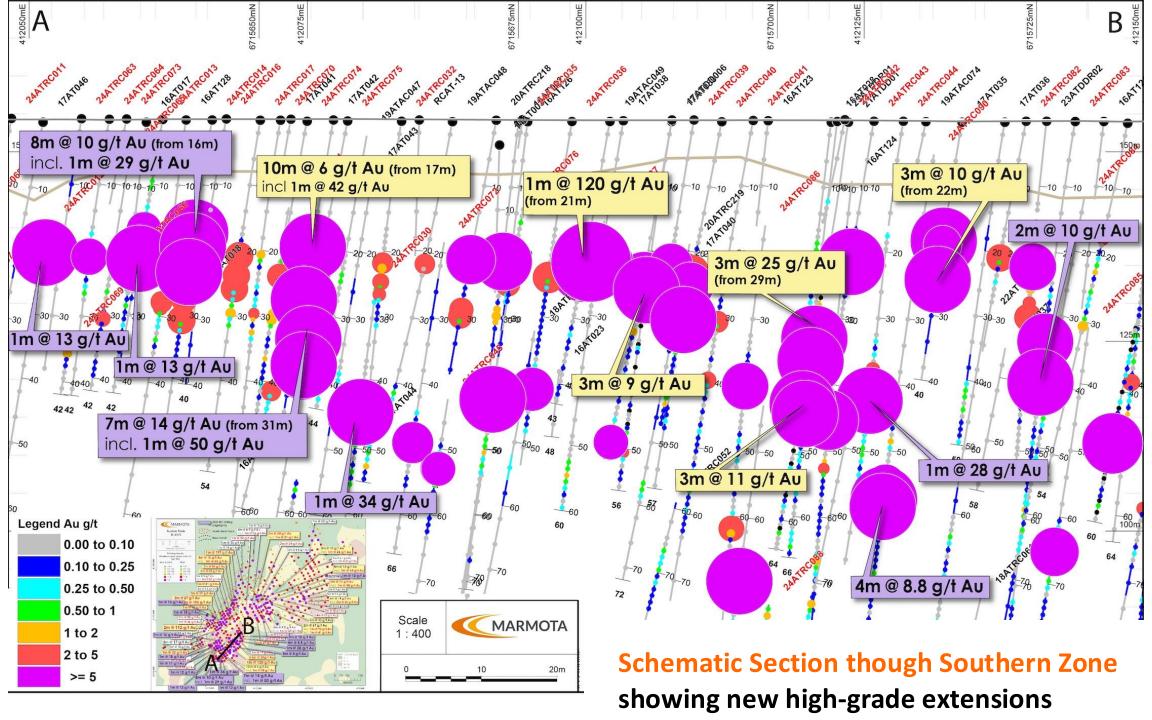
```
1m @ 87 g/t gold (from 32m downhole) in Hole 24ATRC075
                                                                ( 7m @ 19 g/t gold )
1m @ 34 g/t gold (from 43m downhole) in Hole 24ATRC030
                                                                ( 3m @ 12 g/t gold )
1m @ 29 g/t gold (from 22m downhole) in Hole 24ATRC014
                                                                ( 8m @ 10 g/t gold )
                                                                ( 2m @ 16 g/t gold )
1m @ 28 g/t gold (from 41m downhole)
                                         in Hole 24ATRC044
                                                                ( 7m @ 19 g/t gold )
1m @ 23 g/t gold (from 36m downhole) in Hole 24ATRC075
                                                                ( 8m @ 10 g/t gold )
1m @ 18 g/t gold (from 16m downhole)
                                         in Hole 24ATRC014
                                                                ( 8m @ 10 g/t gold )
1m @ 18 g/t gold (from 18m downhole)
                                         in Hole 24ATRC014
                                                                (10m @ 4.4g/t gold )
1m @ 18 g/t gold (from 15m downhole)
                                         in Hole 24ATRC020
1m @ 18 g/t gold (from 141m downhole)
                                                                ( 3m @ 7 g/t gold )
                                         in Hole 24ATRC025
1m @ 16 g/t gold (from 39m downhole)
                                                                ( 5m @ 4.9 g/t gold )
                                         in Hole 24ATRC033
                                                                ( 2m @ 13 g/t gold )
1m @ 16 g/t gold (from 96m downhole)
                                         in Hole 24ATRC059
1m @ 16 g/t gold (from 38m downhole) in Hole 24ATRC083
                                                                ( 2m @ 10 g/t gold )
1m @ 15 g/t gold (from 29m downhole) in Hole 24ATRC040
                                                                ( 8m @ 4.0 g/t gold )
1m @ 14 g/t gold (from 56m downhole) in Hole 24ATRC090
                                                                ( 4m @ 8.8 g/t gold )
```

Our biggest problem at Aurora Tank is .... we keep on finding more gold.

(not a bad problem to have)

### Aurora Tank drilling Schematic Long-section through NW flank





### **Aurora Tank Summary Highlights**

-	2m at	112 g/t	gold	from 117m	- Hole 22AT024	( incl	1m @ 217g/t	gold from 118m)
	3m at	<b>72</b> g/t	gold	from 66m	- Hole 20AT324	(incl	1m @ 197 g/t	gold from 66m)
•	2m at	<b>67</b> g/t	gold	from 32m	- Hole 17AT021	(incl	1m @ 93 g/t	gold from 32m)
•	3m at	41 g/t	gold	from 21m	- Hole 19AT049	( incl	1m @ 120 g/t	gold from 21m)
	5m at	27 g/t	gold	from 38m	- Hole 18AT104	( incl	1m @ 105 g/t	gold from 38m)
•	3m at	<b>29</b> g/t	gold	from 63m	<ul><li>Hole 20AT200</li></ul>	( incl	1m @ 74 g/t	gold from 64m)
•	3m at	25 g/t	gold	from 29m	<ul> <li>Hole 21ATDD1</li> </ul>	( incl	1m @ 36 g/t	gold from 31m)
•	3m at	<b>24</b> g/t	gold	from 34m	- Hole 18AT065	( incl	1m @ 51 g/t	gold from 35m)
	7m at	<b>14</b> g/t	gold	from 31m	- Hole 24AT075	( incl	1m @ 50 g/t	gold from 32m)
•	8m at	<b>10</b> g/t	gold	from 16m	<ul> <li>Hole 24AT014</li> </ul>	( incl	1m @ 29 g/t	gold from 22m)
•	4m at	15 g/t	gold	from 67m	- Hole 19AT162	(incl	1m @ 53 g/t	gold from 69m)
	4m at	<b>13</b> g/t	gold	from 54m	<ul><li>Hole 20AT224</li></ul>	( incl	1m @ 42 g/t	gold from 55m)
•	6m at	<b>11</b> g/t	gold	from 40m	- Hole 18AT074	( incl	1m @ 58 g/t	gold from 44m)
•	6m at	<b>11</b> g/t	gold	from 76m	<ul><li>Hole 22AT025</li></ul>	( incl	1m @ 42 g/t	gold from 77m)
•	5m at	<b>13</b> g/t	gold	from 41m	<ul> <li>Hole 17AT022</li> </ul>	( incl	1m @ 44 g/t	gold from 45m)
	4m at	14 g/t	gold	from 32m	- Hole 17AT011	( incl	1m @ 42 g/t	gold from 33m)
•	4m at	<b>10</b> g/t	gold	from 25m	- Hole 16AT043	( incl	1m @ 39 g/t	gold from 27m)
•	9m at	<b>7.5</b> g/t	gold	from 41m	- Hole 20AT201	( incl	1m @ 29 g/t	gold from 49m)
•	2m at	<b>24</b> g/t	gold	from 42m	<ul> <li>Hole 22AT034</li> </ul>	( incl	1m @ 28 g/t	gold from 43m)
•	2m at	<b>20</b> g/t	gold	from 46m	<ul> <li>Hole 19AT065</li> </ul>	( incl	1m @ 39 g/t	gold from 47m)
•	2m at	<b>21</b> g/t	gold	from 120m	<ul> <li>Hole 20AT303</li> </ul>	( incl	1m @ 36 g/t	gold from 120m)
•	2m at	<b>17</b> g/t	gold	from 100m	<ul><li>Hole 22AT080</li></ul>	( incl	1m @ 22 g/t	gold from 101m)
	3m at	<b>10</b> g/t	gold	from 28m	- Hole 18AT070	( incl	1m @ 24 g/t	gold from 29m)
•	3m at	<b>12</b> g/t	gold	from 29m	- Hole 17AT045	( incl	1m @ 20 g/t	gold from 30m)
•	3m at	<b>11</b> g/t	gold	from 22m	<ul><li>Hole 16AT019</li></ul>	( incl	1m @ 23 g/t	gold from 22m)
•	3m at	<b>10</b> g/t	gold	from 58m	<ul><li>Hole 18AT120</li></ul>	( incl	1m @ 26 g/t	gold from 59m)
•	3m at	<b>10</b> g/t	gold	from 22m	<ul><li>Hole 17AT035</li></ul>	( incl	1m @ 19 g/t	gold from 23m)
•	3m at	<b>10</b> g/t	gold	from 28m	<ul><li>Hole 20AT144</li></ul>	( incl	1m @ 23 g/t	gold from 28m)
-	10m at	<b>6</b> g/t	gold	from 17m	- Hole 17AT042	( incl	1m @ 42 g/t	gold from 18m)
	9m at	<b>5</b> g/t	gold	from 52m	- Hole 20AT198	( incl	1m @ 20 g/t	gold from 52m)
•	4m at	9 g/t	gold	from 28m	- Hole 17AT026	(incl	1m @ 26 g/t	gold from 31m)

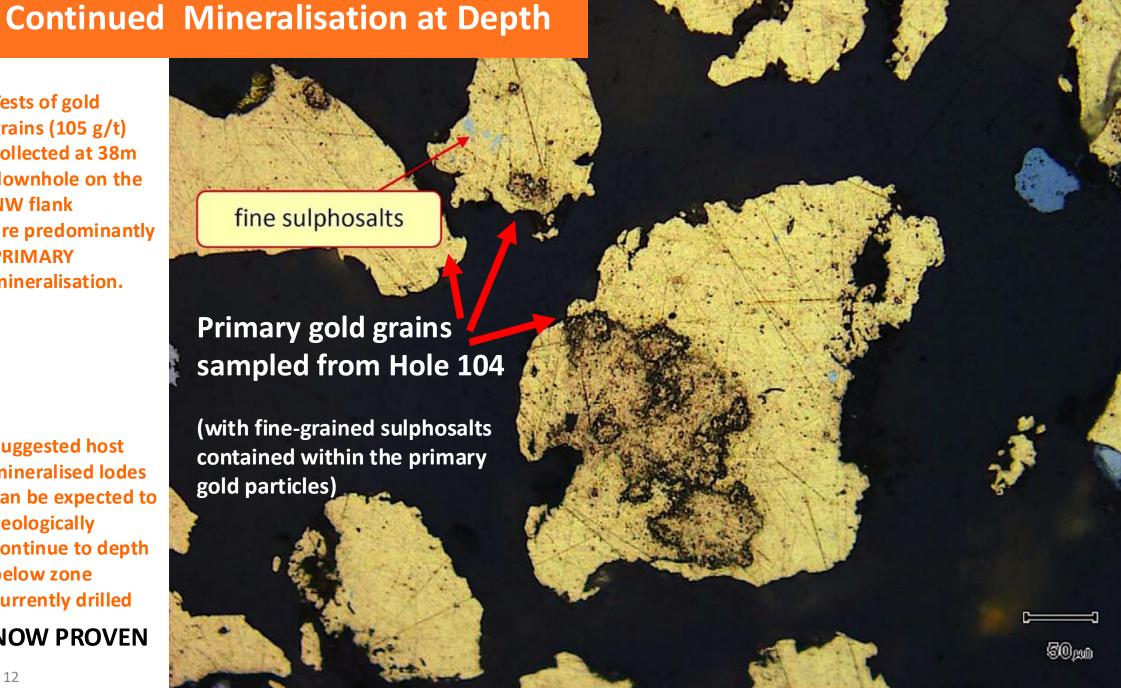
**Tests of gold** grains (105 g/t) collected at 38m downhole on the

are predominantly **PRIMARY** mineralisation.

**NW flank** 

**Suggested host** mineralised lodes can be expected to geologically continue to depth below zone currently drilled

**NOW PROVEN** 



# Low-cost Low-capex Heap Leach Pathway

Marmota has been investigating the optimal pathway to production at Aurora Tank. Excellent column leach test gold recoveries (now being optimised) suggest that Aurora Tank is amenable to low-cost low-capex heap leach techniques.

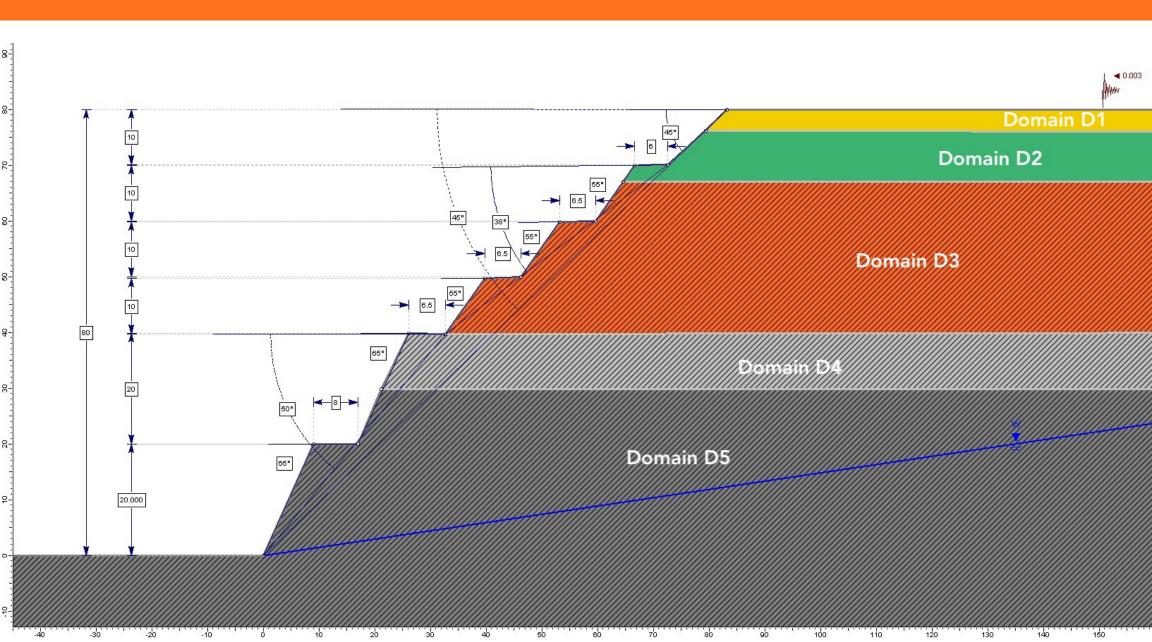
A heap leach means that Marmota would not need to construct a mill, nor share revenue with external parties for toll treatment in a mill. This is a highly desirable outcome for both the Company and our shareholders.

### Marmota has water source at Aurora Tank





# **First Pit Wall Parameters**



# **Transitioning from Discovery to Production**

### **Metallurgical, Infrastructure and Approvals**

- Optimised metallurgical work (awaiting report)
- . Camp running
- Environmental studies completed
- . Ticking off the boxes for the remainder
- high-grade intersections, predominantly close to surface, with excellent metallurgy, making Aurora Tank amenable to low-cost low capex open-pit heap leach methods. The metallurgical testwork is about to complete and as soon as that is done, we progress to resource work, open-pit design and PFS ... all underpinned by surging gold fundamentals.



ASX:MEU 17

# Key Takeaways



Aurora Tank is very fortunate to have:

- ✓ Outstanding High-grade gold intersections
- ✓ Mineralisation Close to surface
- Excellent Gold recoveries (metallurgy)
- ✓ Soft ground
- ✓ Primary mineralisation (potential to continue deeper)

Company focusing on potential for:

Low-cost Open-pit

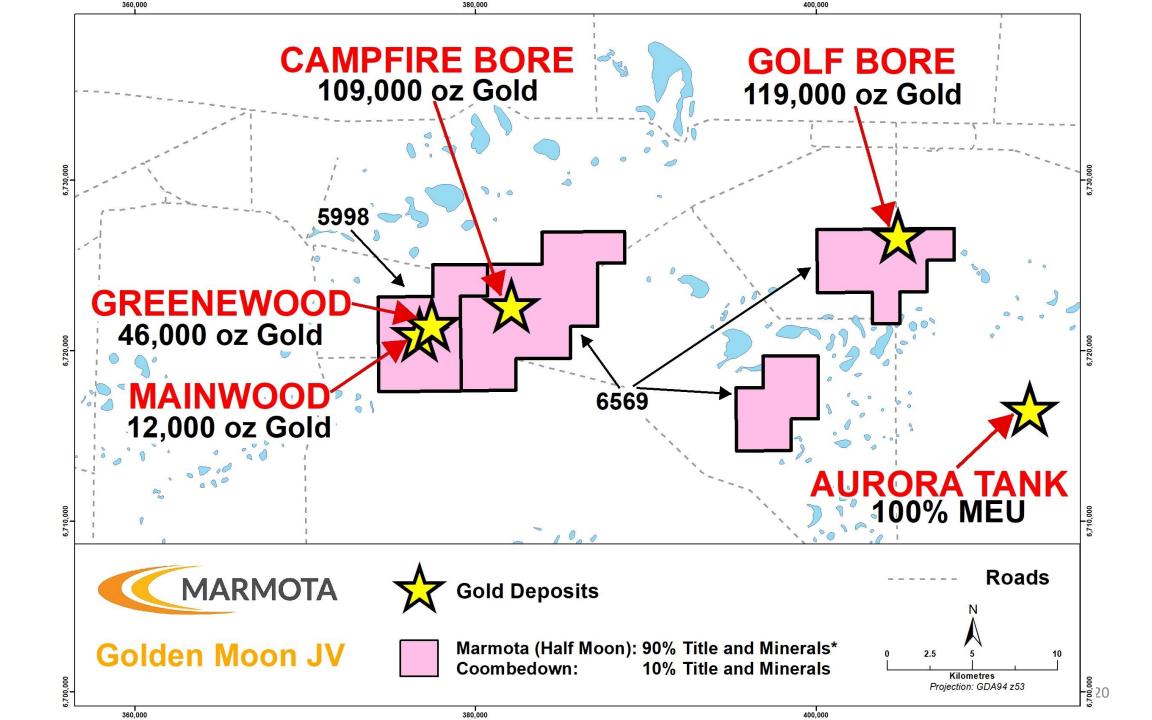
Low-capex Heap leach pathway



# Golden Moon JV

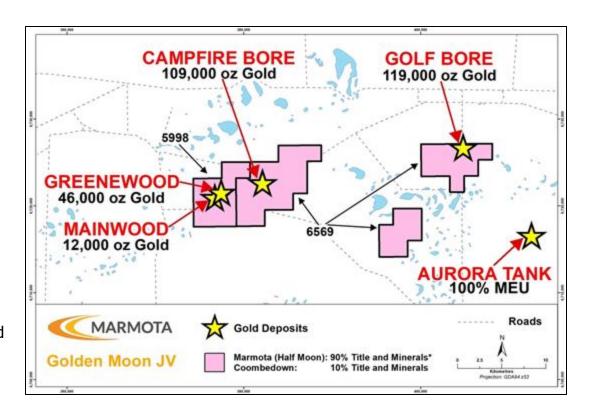






### **Golden Moon JV Deposits**

- Golden Moon JV together with partner Coombedown Resources
- Golden Moon deposits have minimal drilling compared to Aurora Tank and is not as advanced
- Have enormous potential for growth
- All reported resources are close to surface (within 100m from surface)
- Amenable to low-cost open pit mining.
- Current gold price (~A\$4600) is more than double the gold price at the time the resource work was done in 2018 (~A\$1680)



#### Golden Moon JV gold deposits Mineral Resource Estimates (May 2018) [using 0.5 g/t cut-off grade]

Deposit	Indicated Resources		Infe	Inferred Resources			Total Mineral Resources		
0.5 g/t cut-off grade	Mt	Au g/t	Au koz	Mt	Au g/t	Au koz	Mt	Au g/t	Au koz
Golf Bore	0.57	1.0	18	3.22	1.0	100	3.79	1.0	119
Campfire Bore				2.78	1.2	109	2.78	1.2	109
Greenewood	0.14	1.4	7	0.75	1.6	39	0.9	1.6	46
Mainwood	-			0.35	1.1	12	0.35	1.1	12
Golden Moon Sub-total	0.71	1.1	25	7.1	1.15	260	7.82	1.14	286

ASX:MEU: New Golden Moon JV to grow Gawler gold resources (4 October 2024)

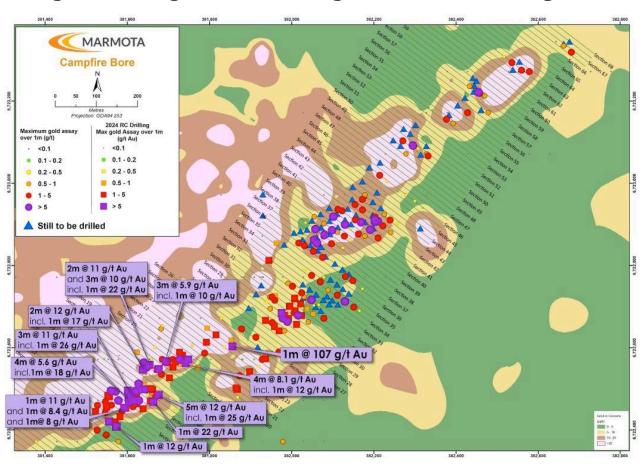
### MEU first ever drilling at Campfire Bore yields 107 g/t Au

### First MEU drilling at Campfire Bore (Stage 1) see ASX:MEU 29 Jan 2025

- 107 g/t gold from 57m to 58m below surface in Hole 24CBRC062 in an area previously undrilled
- 5 intersections over 20 g/t gold
- 13 intersections over 10 g/t gold including 5m @ 12g/t, 3m @ 11 g/t and 3m @ 10 g/t

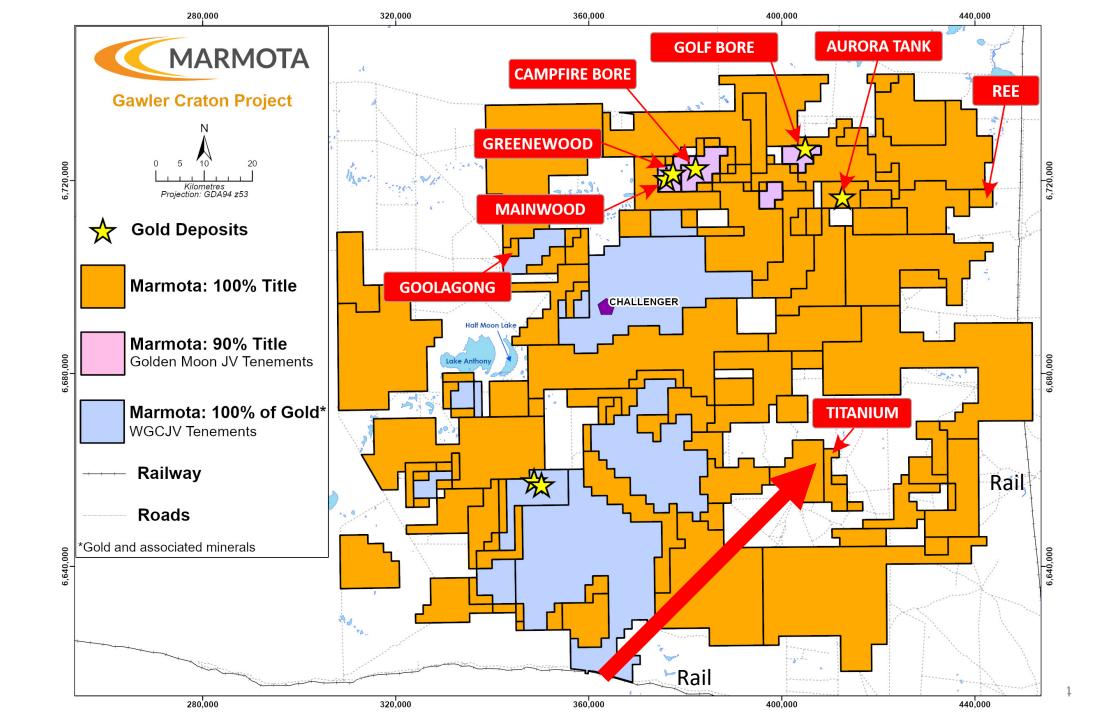
The program has already identified and developed a high-grade zone to the south.

Almost the entire southern block appears open to S and E.



# **MARMOTA**

# Titanium



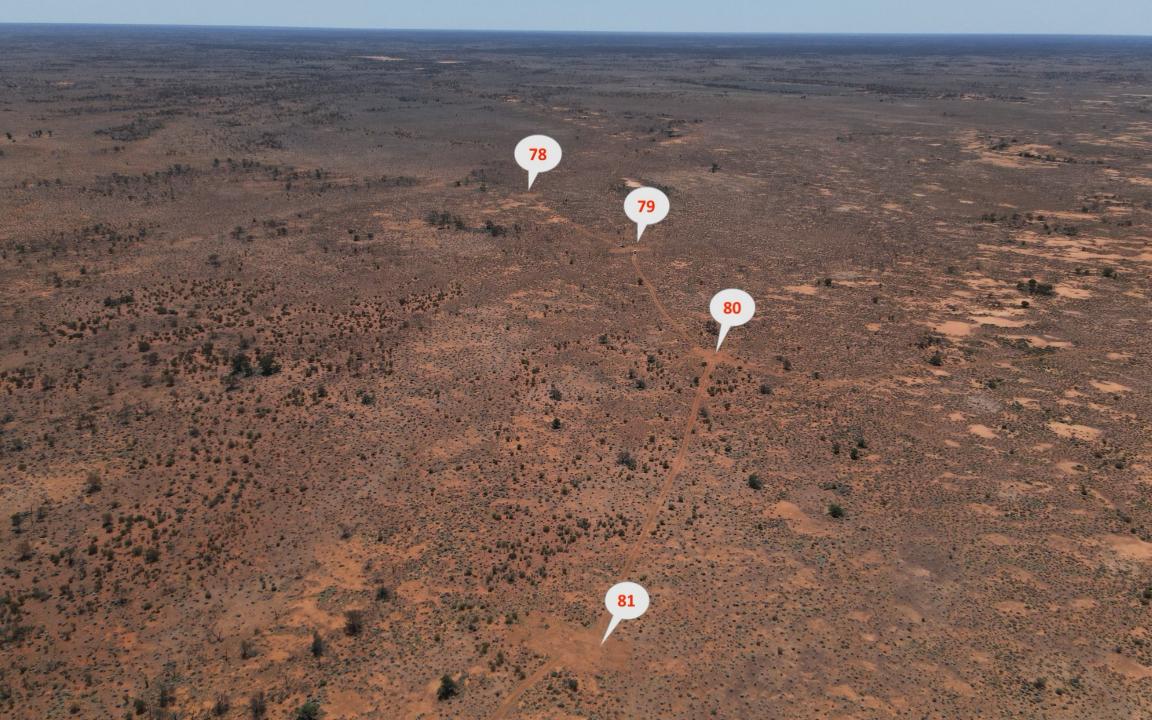
# **Exceptional Titanium discovery** Nov 2024

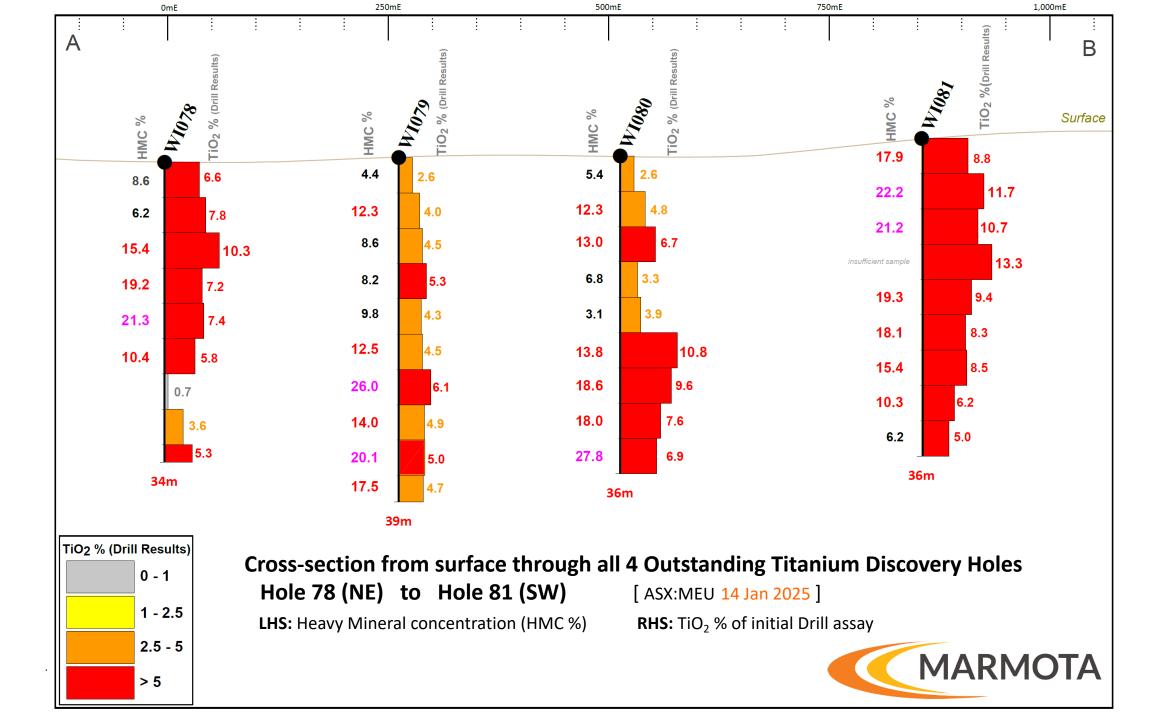
See ASX:MEU 13 Nov 2024

Nov 2024: Marmota discovered **exceptional thick rich titanium** mineralisation at Muckanippie [ASX:MEU 13 Nov 2024] from surface, *in every discovery hole* 

```
from 0m (from surface)
                                                                               [ incl 4m @ 13.3 % ]
28m @ 10.1 % TiO<sub>2</sub>
                                                            [ Hole WI-081 ]
                             from 0m (from surface)
                                                                               [ incl 4m @ 10.8 % ]
36m @
         6.2 % TiO<sub>2</sub>
                                                            [ Hole WI-080 ]
39m @ 4.6 % TiO<sub>2</sub>
                             from 0m (from surface)
                                                            [ Hole WI-079 ]
                             from 0m (from surface)
                                                                               [ incl 4m @ 10.3 % ]
24m @ 7.5 % TiO<sub>2</sub>
                                                            [ Hole WI-078 ]
```

- Exceptional TiO<sub>2</sub> grades over 10% [ASX:MEU 13 Nov 2024]
- Discovery is open in all directions
- Close to key rail infrastructure
- ✓ Titanium is one of the critical minerals identified by governments worldwide.





# **Outstanding Heavy Mineral %**

### ASX:MEU 14 Jan 2025

January 2025 assay results [ ASX:MEU 14 Jan 2025 ] yielded outstanding Heavy Mineral (HM) concentrate percentages, with every discovery hole featuring bonanza HM grades over thick wide intervals from surface:

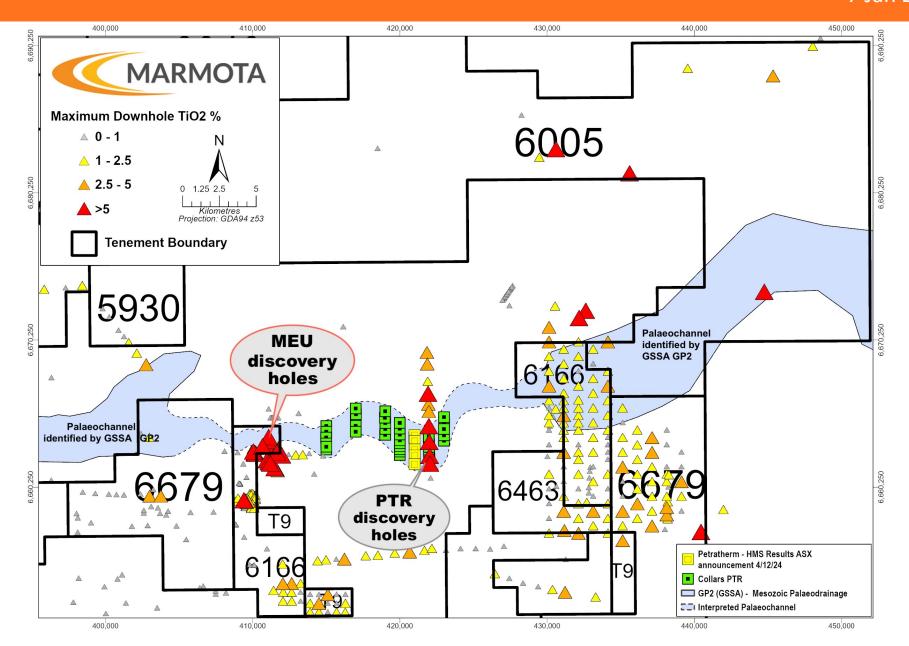
Hole WI-081	28m @	19.2 % HM	from <b>0m</b> (from surface)	including	4m @ 22.2 % HM
Hole WI-080	36m @	13.5 % HM	from <b>0m</b> (from surface)	including	4m @ 27.8 % HM
Hole WI-079	39m @	13.2 % HM	from <b>0m</b> (from surface)	including	4m @ 26.0 % HM
Hole WI-078	24m @	13.5 % HM	from <b>0m</b> (from surface)	including	4m @ 21.3 % HM

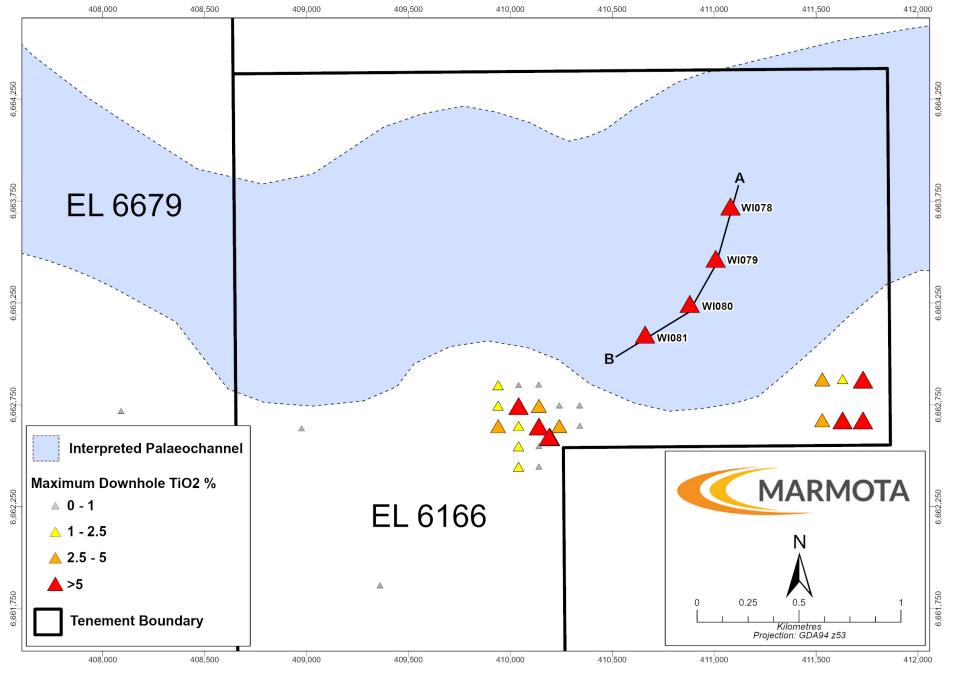
Table 2: Australian Mineral Sand Projects and Heavy Mineral HM %

Company	Project	HM %
Tronox <sup>1</sup>	Western Australia: COOLJARLOO - Dredge Mine	1.6
	Western Australia: DONGARA - Planned Dry Mine	3.9
	New South Wales: ATLAS-CAMPASPE - Dry Mine	3.0
	New South Wales: KARA/CYLINDER	4.1
Iluka Resources Ltd <sup>2</sup>	Eucla Basin: ATACAMA + JACINTH AMBROSIA	4.9
	Murray Basin: EUSTON, WIMMERA & BALRANALD	6.5
	Perth Basin: TUTUNUP, CATABY	5.5
Strandline Resources Ltd <sup>3</sup>	Coburn WA	1.2
Image Resources Ltd <sup>4</sup>	Various Dry Mining Deposits	1.5
	Various Dredge Mining Deposits	2.1
Diatreme Resources Ltd <sup>5</sup>	Cyclone, WA	2.3

For source references, see ASX:MEU 14 Jan 2025

### Palaeochannel-hosted Titanium Model





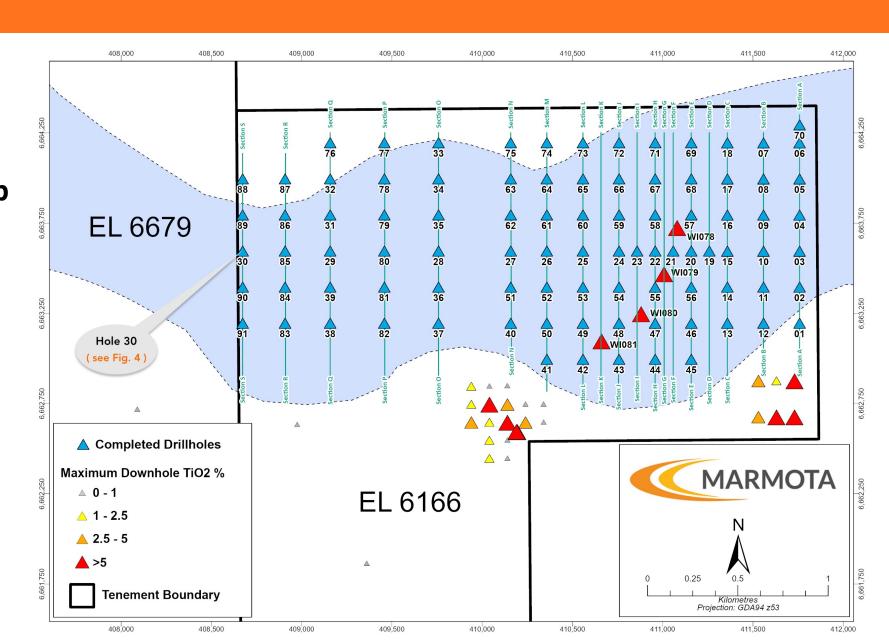
Detail: Palaeochannel interpretation over Marmota's Titanium Discovery on EL 6166

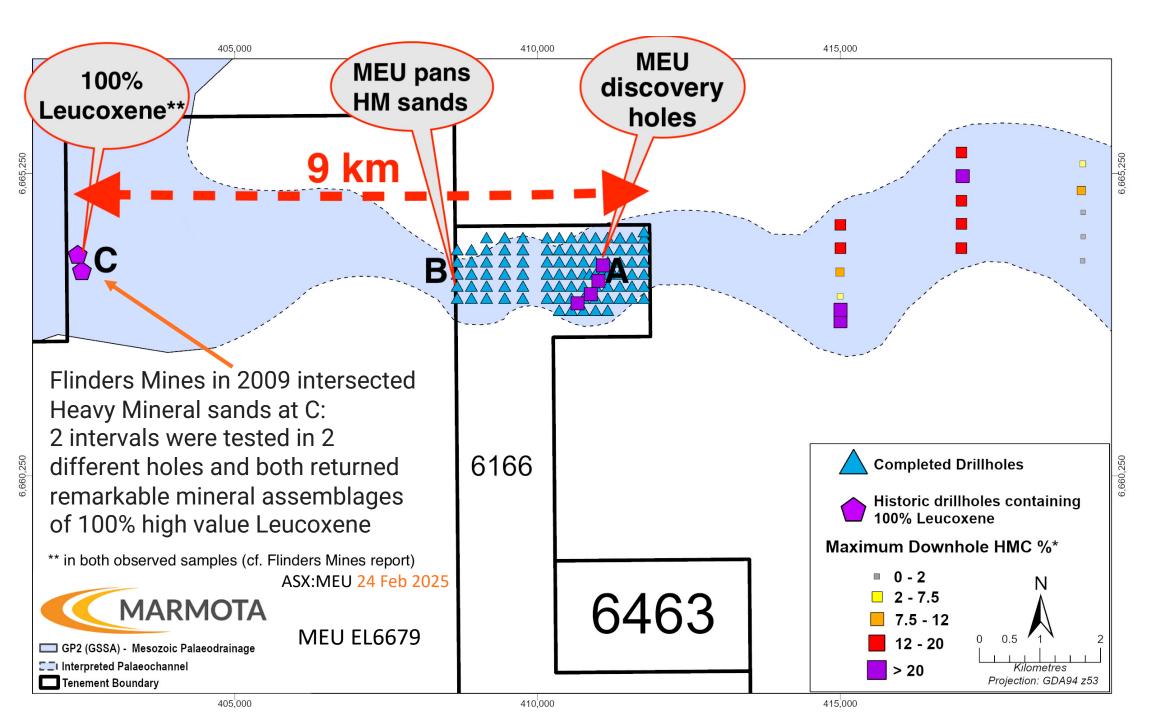
# Maiden drill program: 91 follow-up holes

ASX:MEU 10 Feb 2025

Drilling completed

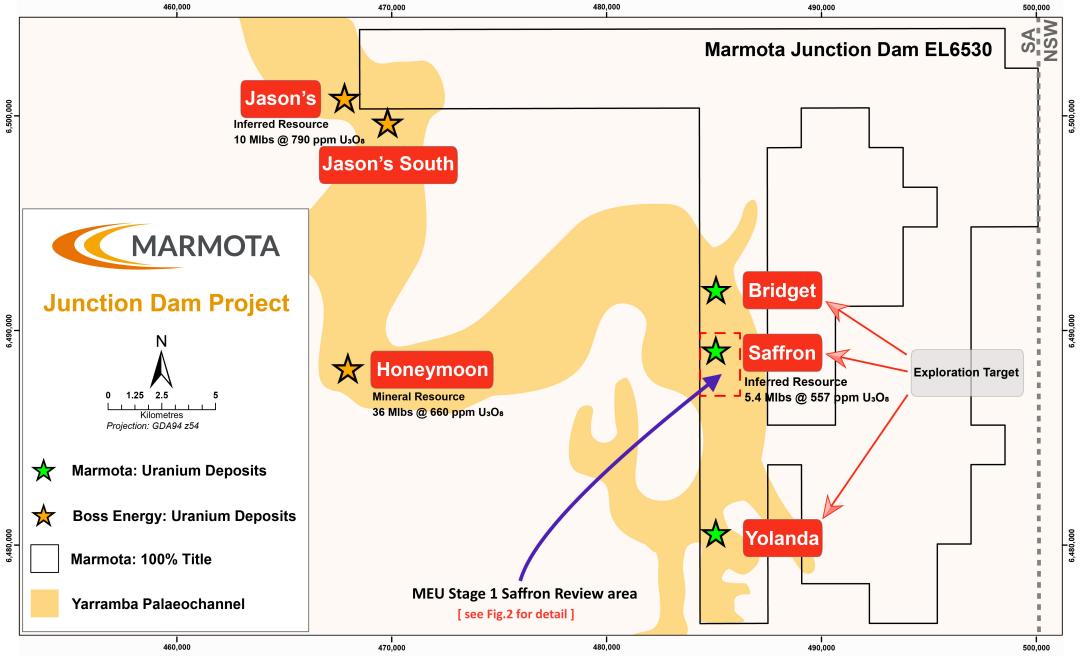
Samples now in lab





# **MARMOTA**

# Uranium



The Junction Dam uranium tenement (100% MEU) bookends both sides of the palaeochannel of the Boss Energy Ltd (ASX:BOE market cap ~ \$1.1 billion) Honeymoon uranium plant

### PREPARATION TO RESTART MEU URANIUM PROGRAM

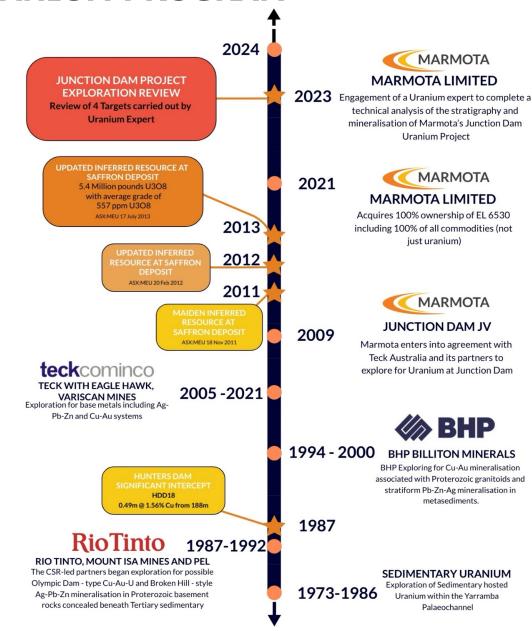
#### 2014

MEU spent over A\$8 million developing Junction Dam uranium\*.

#### 2024

MEU announced decision to re-commence exploration at Junction Dam, to substantially grow the Company's uranium resource\*\*.

- MEU announced engagement of uranium expert Mark Couzens to:
  - Conduct stratigraphic and mineralisation review
  - Design first drill program for Junction Dam restart
- Making superb progress
- Exceeding all expectations
- Stage 1, 2, 3 & 4 Review all COMPLETED
- Drill program design almost completed only Stage 4 left

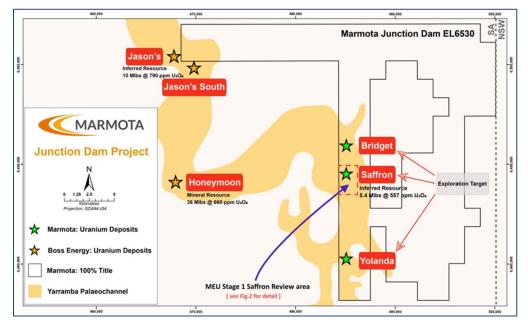


<sup>\*)</sup> ASX Announcement: June 2014 Financial Report (29 September 2014)

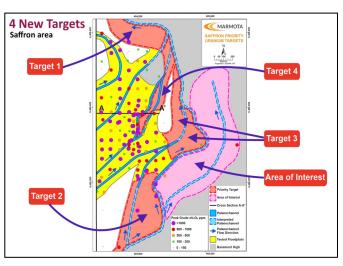
<sup>\*\*)</sup> ASX Announcement: Marmota to grow Junction Dam uranium resource (26 October 2023)

### **AREA 1: SAFFRON**

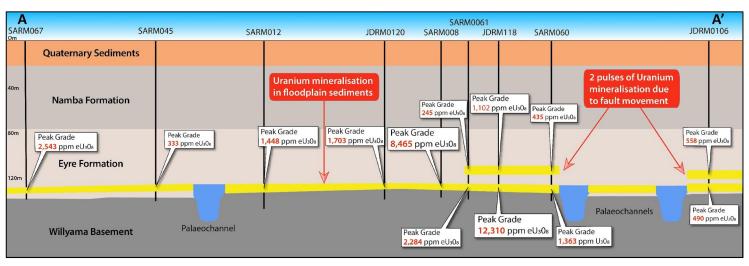
- Existing inferred uranium resource
- $\sim$  5.4 million pounds @ 557 ppm  $U_3O_8^*$
- Exploration stopped due to market downturn
- Potential to significantly increase resource
- Multiple high-priority Targets in a large untested area of interest
- 164 Drill holes currently planned



The Junction Dam uranium tenement (100% MEU) bookends both sides of the palaeochannel of the Boss Energy Ltd (ASX:BOE market cap  $\sim $1.1$  billion) Honeymoon uranium plant



New drill targets at Saffron.



Schematic cross-section with a width of 600 metres across the Saffron Uranium Deposit

ASX:MEU 3

<sup>\*</sup> ASX:MEU 18 Nov 2011, 20 Feb 2012, 17 July 2013

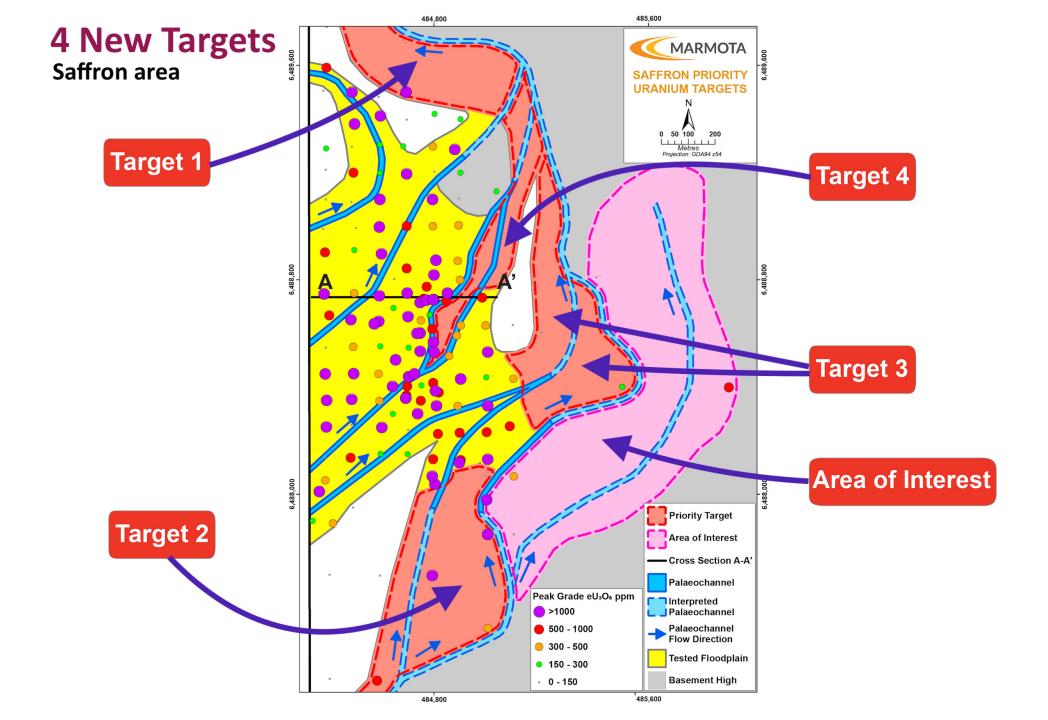
# Area 1: Saffron

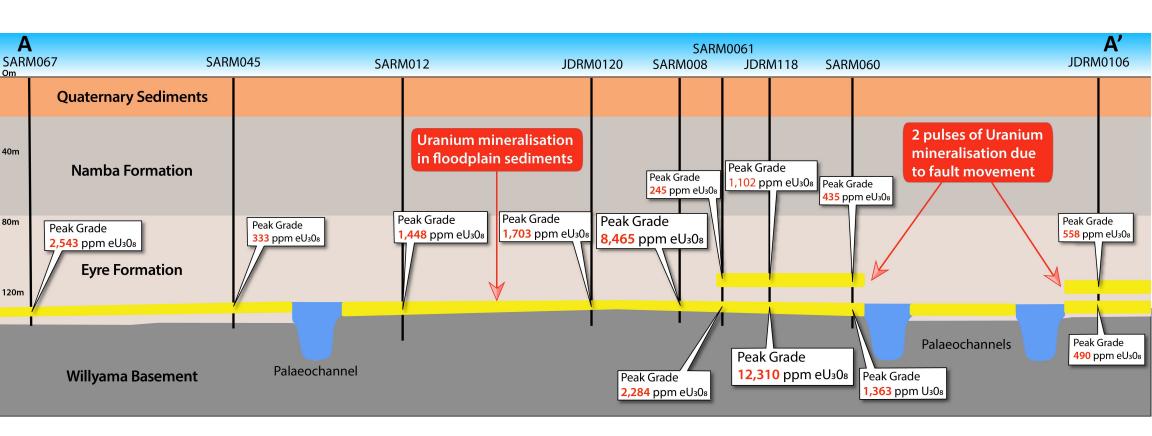
Existing inferred uranium resource
 5.4 million pounds @ 557 ppm U<sub>3</sub>O<sub>8</sub>

ASX:MEU 18 Nov 2011, 20 Feb 2012, 17 July 2013

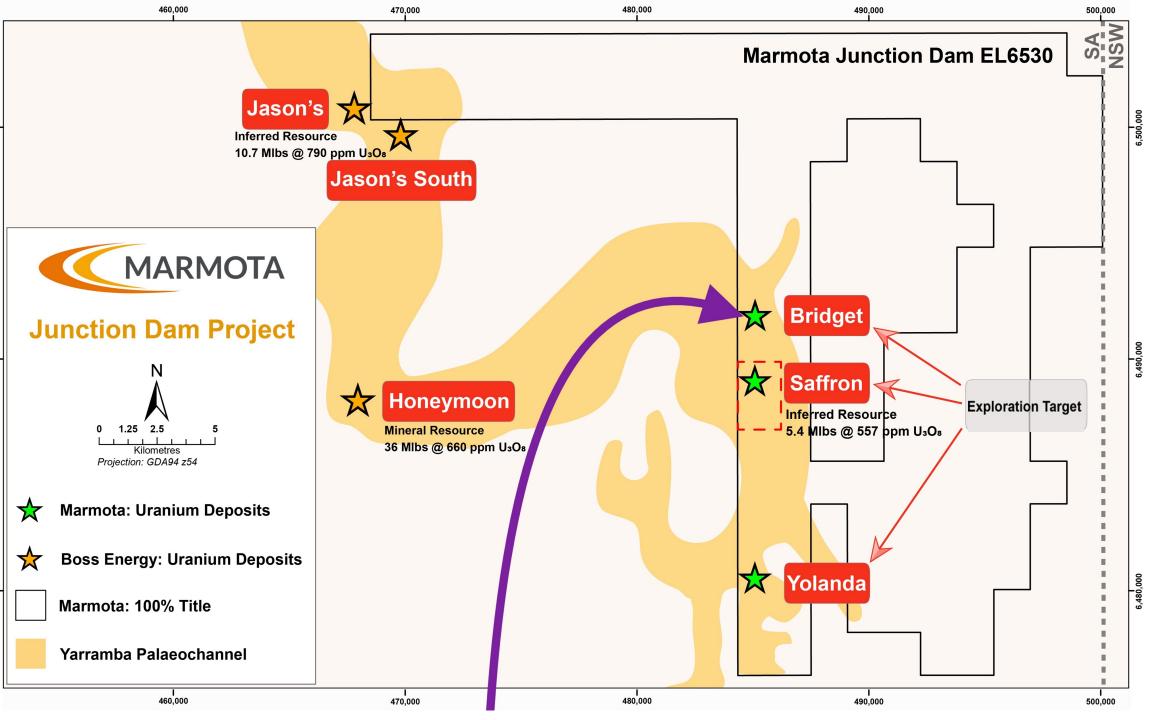
Exploration stopped due to market downturn.

- Potential to significantly increase resource.
- Multiple high priority Targets
- Large untested area of interest
- 164 Drill holes currently planned





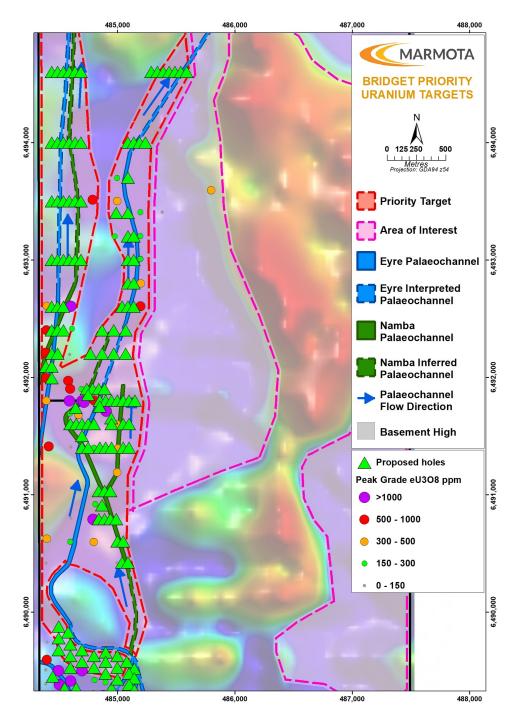
Schematic cross-section with a width of 700 metres across the Saffron Uranium Deposit



# Area 2: Bridget

Enormous potential to host a large uranium resource.

- 2 distinct uranium systems, from 2 different geological ages
  - —— both coincident at Bridget.
- HUGE 20m high stacked uranium roll-front similar to what is seen at the Four-Mile Uranium Deposits (Beverley Uranium Mine).
- Beverley-style mineralisation.



The Bridget project review has identified:

- two separate Eyre Formation palaeochannels shown in the blue colour, as well as
- two Namba Formation palaeochannels shown in the dark **green** colour .

Priority targets have been identified from the stratigraphic interpretation completed.

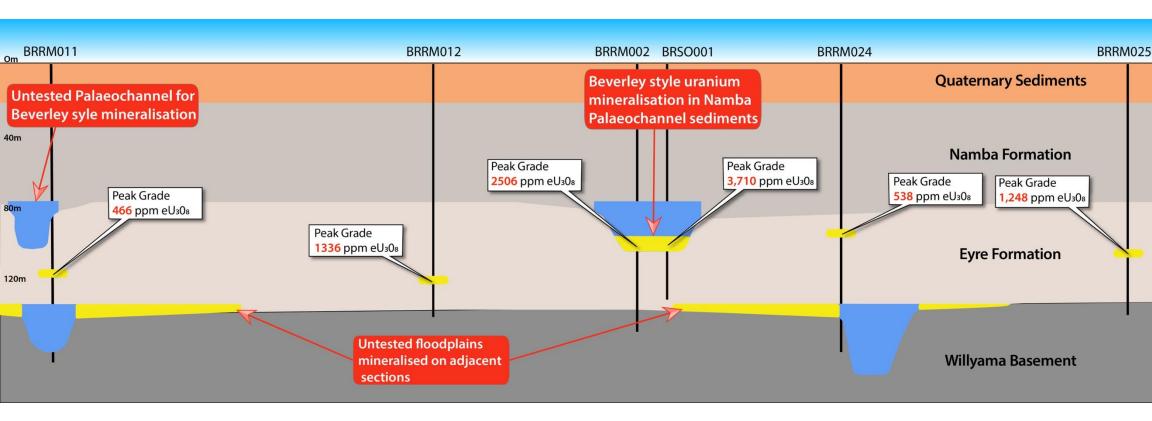
114 Drillholes Planned.

## Junction Dam Re-start

More exciting than we could possibly have imagined.

Completely changed our concept of the size and scope of uranium mineralisation at Junction Dam."

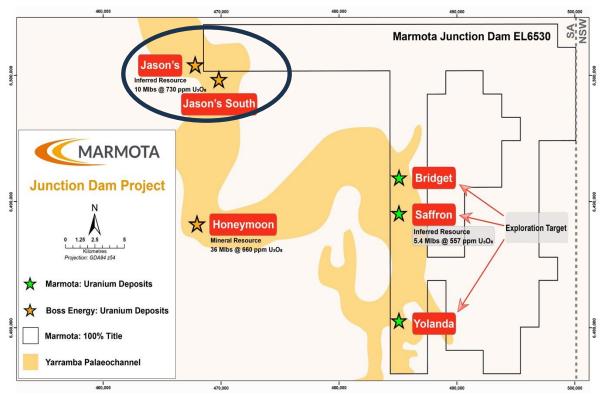
# Bridget Stratigraphic Model



## Area 4: Jasons

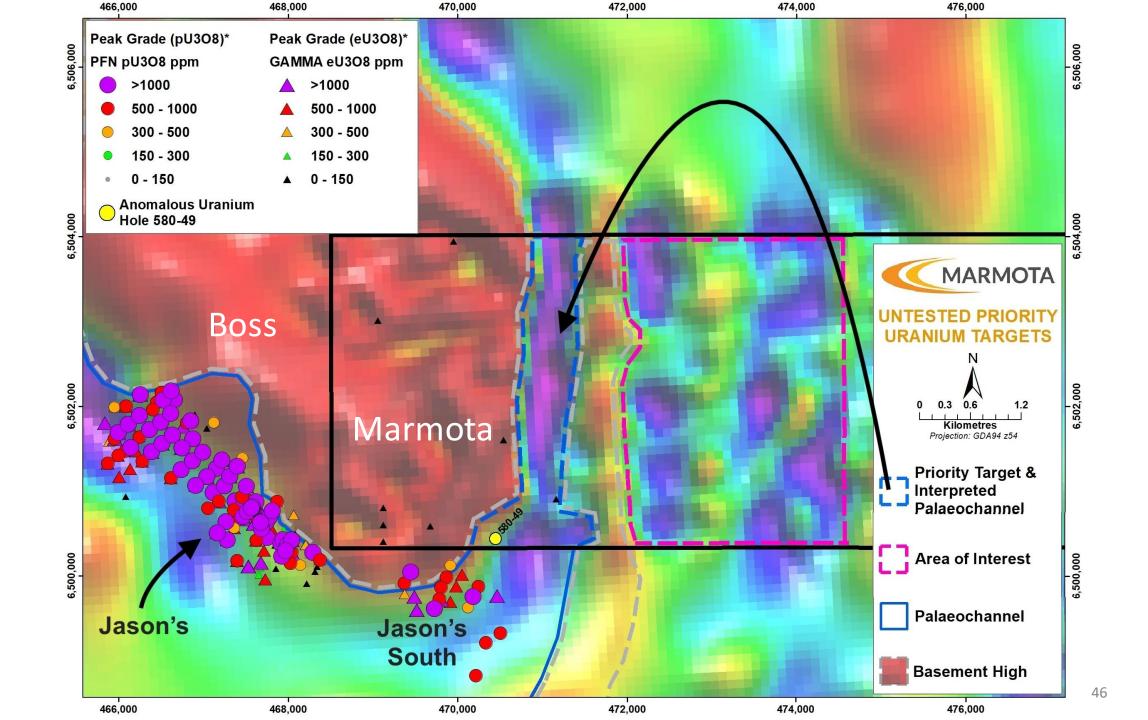
 Jasons is the highest-grade uranium resource that Boss has.

 Just across the tenement boundary from MEU.



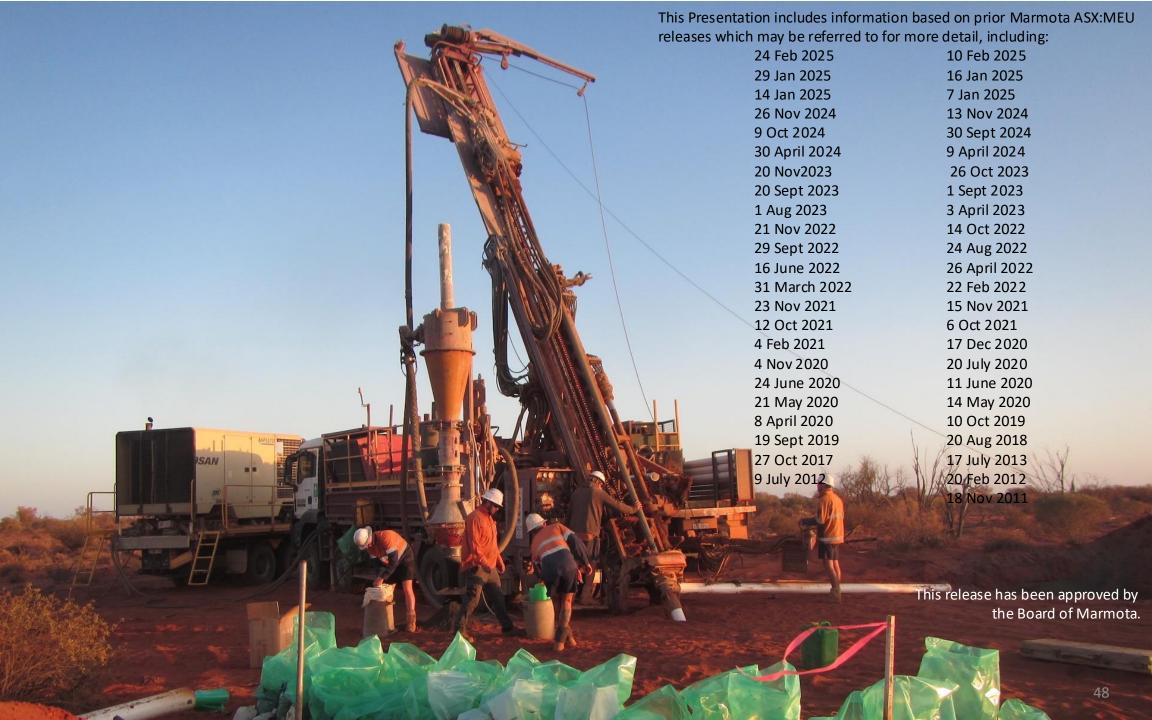
- New model suggests Palaeochannel continues onto our side!
- No drill holes in the area. Target palaeochannel essentially untested.
- Potential for New High Grade deposit.

ASX:MEU 45



# Key Takeaway

- ✓ Junction Dam is one of the most exciting uranium deposits in SA, in the premier uranium jurisdiction of Australia
- ✓ Dramatic change in perception of the potential of Junction Dam
- Sector is booming, and Marmota is perfectly located
- ✓ Both Aurora Tank gold and Junction Dam uranium provide Marmota shareholders with outstanding upside.
- ✓ New Titanium discovery is the cherry on the top.



## Disclaimer

#### Disclaimer

This presentation has been prepared by Marmota Limited ("MEU"). The information contained in this presentation is a professional opinion only and is given in good faith. Certain information in this document has been derived from third parties and though MEU has no reason to believe that it is not accurate, reliable or complete, it has not been independently audited or verified by MEU. Any forward-looking statements included in this document involve subjective judgement and analysis and are subject to uncertainties, risks and contingencies, many of which are outside the control of, and may be unknown to, MEU. In particular, they refer only to the date of this document, they assume the success of MEU's strategies, and they are subject to significant regulatory, business, competitive and economic risks and uncertainties.

Actual future events may vary materially from those in the forward looking statements. Recipients of this document are cautioned not to place undue reliance on such forward-looking statements. MEU makes no representation or warranty as to the accuracy, reliability or completeness of information in this document and does not take responsibility for updating any information or correcting any error or omission which may become apparent after this document has been issued. To the extent permitted by law, MEU and its officers, employees, related corporations and agents, disclaim all liability, whether direct, indirect or consequential for any loss or damage arising out of, or in connection with, any use or reliance on this presentation or information.

### **Cautionary Statement**

Any estimates of exploration target sizes mentioned above should not be misunderstood or misconstrued as estimates of Mineral Resources. The estimates of exploration target sizes are conceptual in nature and there has been insufficient results received from drilling completed to date to estimate a Mineral Resource compliant with the JORC Code guidelines. Furthermore, it is uncertain if further exploration will result in the determination of a Mineral Resource.

### **Forward Looking Statement**

This report may contain forward looking statements that are subject to risk factors which are based on MEU's expectations relating to future events. Forward-looking statements are subject to risks, uncertainties and other factors, many of which are outside the control of MEU, which could cause actual results to differ materially from such statements.

MEU makes no undertaking to update or revise the forward-looking statements made in this report to reflect events or circumstances after the date of this release.

### **Competent Persons Statement**

Information relating to Exploration Targets, Exploration Results and Mineral Resources is based on information compiled by Aaron Brown, who is a Member of The Australian Institute of Geoscientists and an employee of Marmota. He has sufficient experience which is relevant to the styles of mineralisation, metallurgical testwork and types of deposits under consideration and to the activities being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves." Mr Brown consents to the inclusion in this report of the matters based on this information in the form and context in which it appears. The information in this announcement that relate to Mineral Resource estimates that are now within the Golden Moon JV come from the Tyranna ASX:TYX release of 30 May 2018, and is based on information compiled by Richard Maddocks who is a Fellow of the Australasian Institute of Mining and Metallurgy, and who was an independent consultant to Tyranna Resources Ltd. Please see the Tyranna release for more details. The Company 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.

Where results from previous announcements are quoted, Marmota confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

For further information, please contact: **Dr Colin Rose** Executive Chairman

Email: colin@marmota.com.au

Phone: (08) 8294-0899

