



**NORTH STAWELL MINERALS**  
BETTER SCIENCE, BETTER EXPLORATION

# North Stawell Minerals: The blueprint for success

## The Australian Gold Conference 2023

*We acknowledge the traditional owners of the land on which we meet, the Gadigal peoples, and pay our respects to elders past and present.*

28-30 August 2023 | Sydney, NSW

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## **Competent Persons Statement**

The information that relates to Exploration Targets, Exploration Results and Mineral Resources is based on information compiled by Mr. Bill Reid, a Competent Person who is a Member of The Australian Institute of Geoscientists (AIG) and Head of Exploration of North Stawell Minerals. Mr. Reid 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' (2012 JORC Code). Mr. Reid consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

## **New Information and Previous Results**

For previously reported results, North Stawell Mineral is not aware of any new data or information that materially affects the information as originally disclosed.

All results in the presentation are previously reported. All results and announcements are found on the Company website ([www.northstawellminerals.com](http://www.northstawellminerals.com)) and the ASX (<https://www2.asx.com.au>)



# PROJECT OVERVIEW-KEY ASSETS

**120m**

Shares on Issue

**\$0.07**

Share price  
(Aug '23)

**\$8.4m**

Market Cap  
(Aug '23)

## A secure and high calibre Project

- **Capital Structure:** **Tight** (66% same ownership as Stawell Gold Mines).
- **Strong Board** **Over 115 years' experience**, Jerry Ellis, Graham Brown, Alistair Wadell, Campbell Olsen
- **Tenements:** **500km<sup>2</sup> 100% approved** and in good standing, access to 75% of land
- **Ground Position** **Highly Prospective** and continuous holdings, shallow cover 20-50m
- **Exploration Advantage:** **Geophysics** delivers effective vectoring to targets.
- **Exploration Potential:** **Shallow, multi-million ounce Stawell-type** preserved by a blanket of cover.
- **Pathway to mining:** **Uncomplicated** – proximal to an operating Gold Mine (SGM)
- **Support:** **Mature support structures** -from Stawell Gold Mine



Aircore drilling



# LOCATION LOCATION



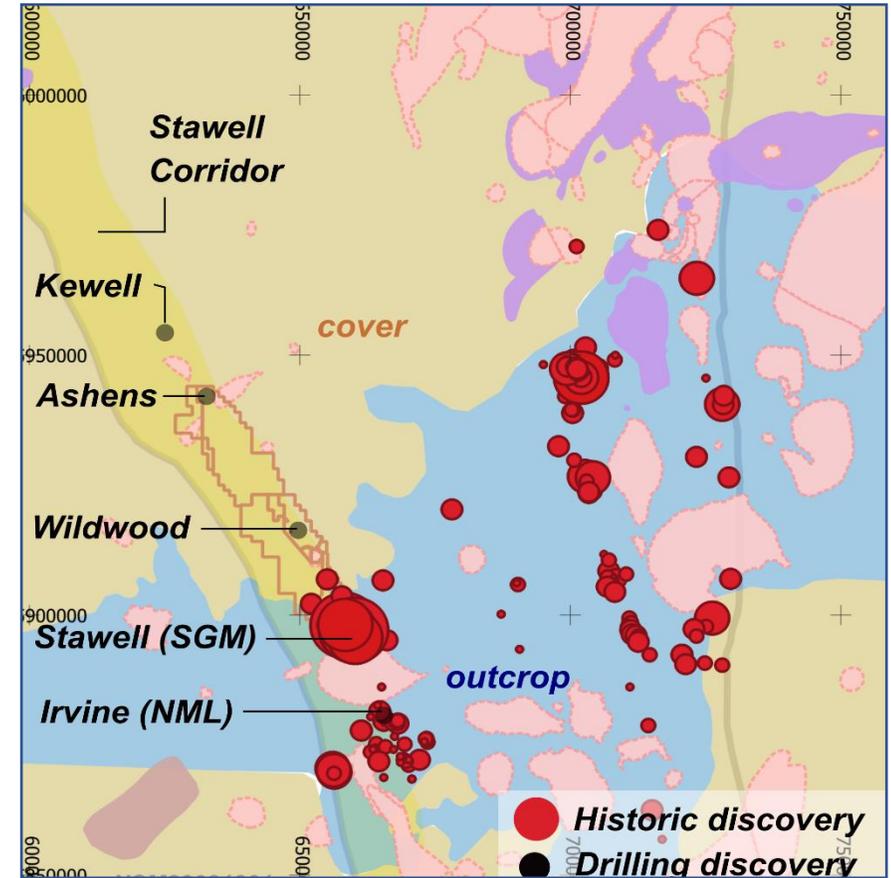
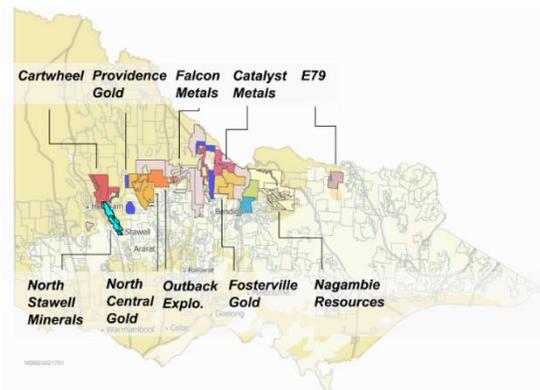
## Stawell's Golden History

- Stawell Gold Field production is over 5 Moz Au and increasing.
- Stawell is the 4<sup>th</sup> largest goldfield in Victoria.
- An end member of the golden triangle.



## Stawell's Golden Opportunities

- The gold under the Stawell Corridor can hide no longer.
- Cover depths typically 20-50m.
- A Gold Undercover Report – up to 32 Moz Au remain undiscovered in northern Victoria<sup>1</sup>.
- The Stawell Corridor has basalt slabs that gold-bearing structures wrap around.
- We are not alone.



Historic prospecting has a formidable discovery record in Victoria – the blanket of un-mineralised sediments (cover) were a total barrier to discovery.

<sup>1</sup>Lisitsin et al 2009. Gold Undercover Report 13

# THE "STAWELL MODEL" – AN EXPLORATION TREASURE MAP



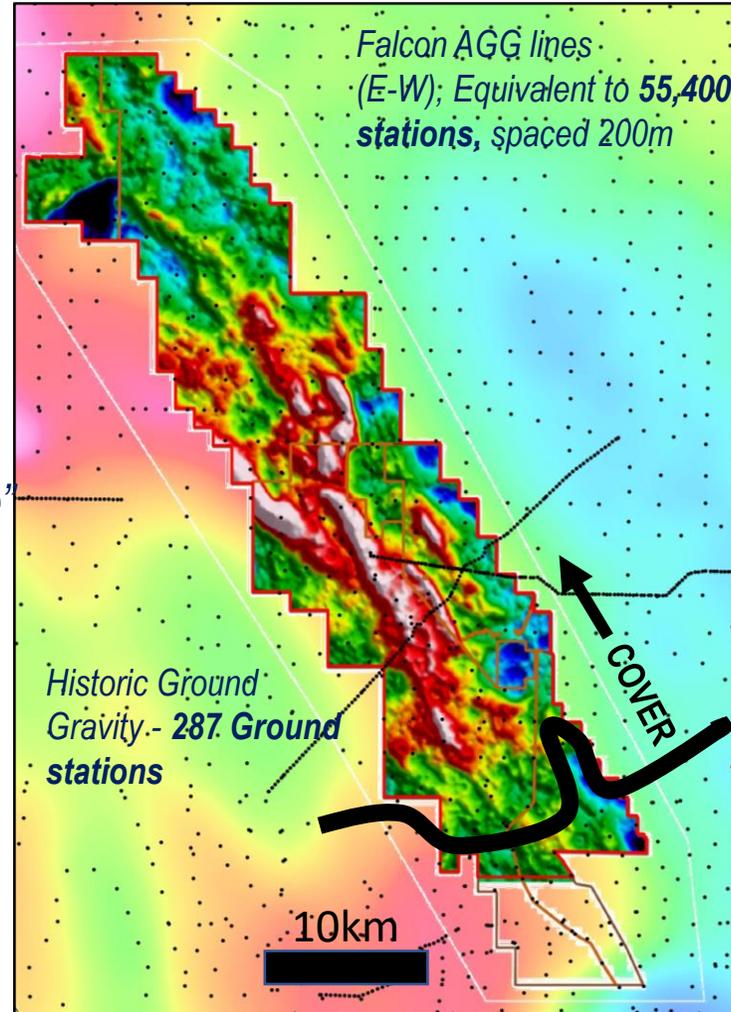
Targeting the margins of basalt domes to realise a deeper system analogous to Stawell.

Sediment-hosted splays of mineralisation propagate into the pressure shadow above the basalt buttress (dome).

The Mariners at Stawell is the "near-surface" expression of the ~2 Moz Au Central Lode-Golden Gift mineralisation.

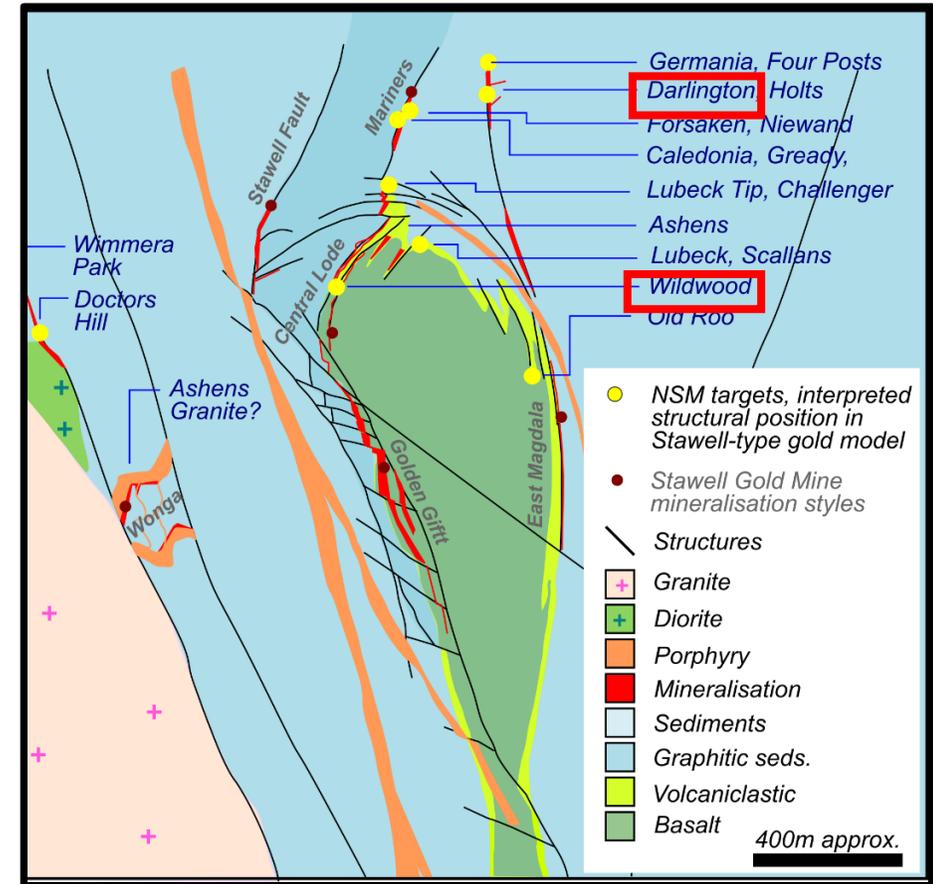


Mariners Reef (NSM geos)



AGG (gravity) data

Stylised cross section of Stawell with the relative structural position of NSM prospects shown.

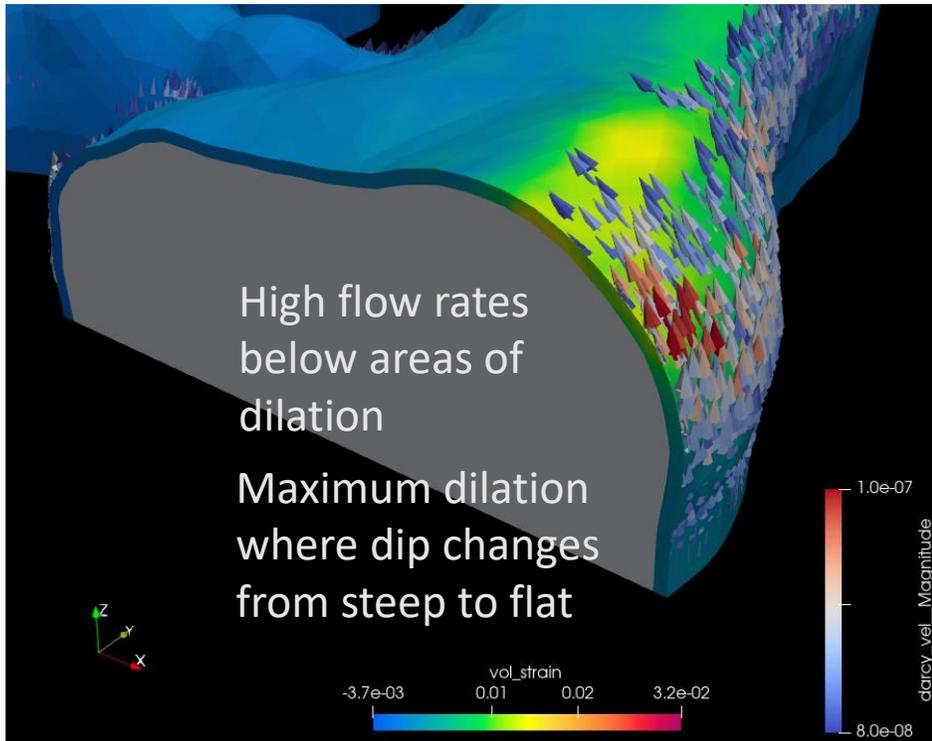


Schematic cross section and interpreted position c.f. Stawell

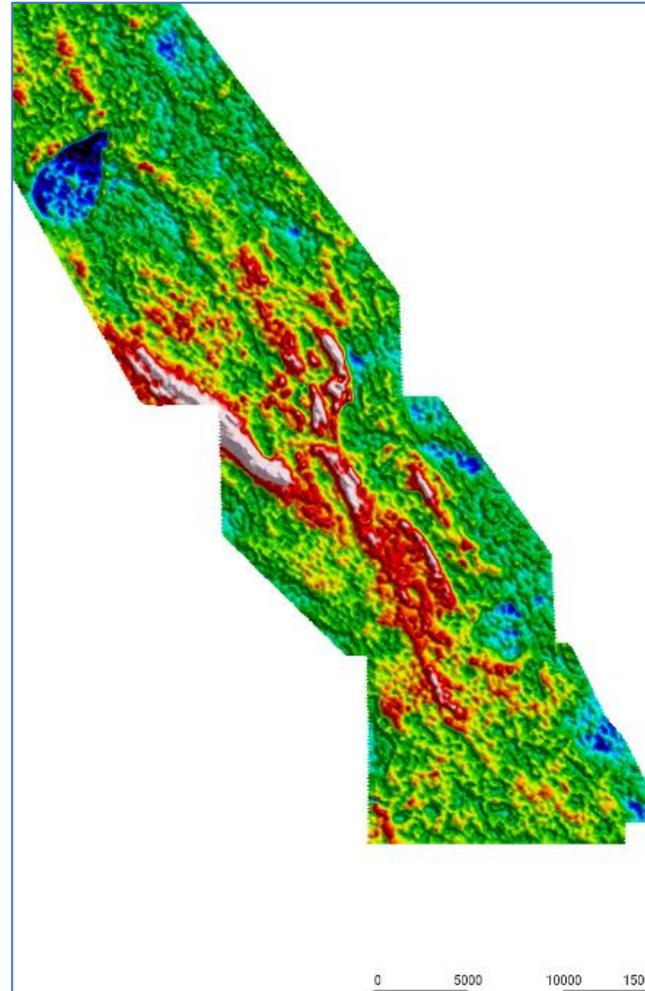
# CSIRO FLUID FLOW MODELLING- “BETTER SCIENCE”



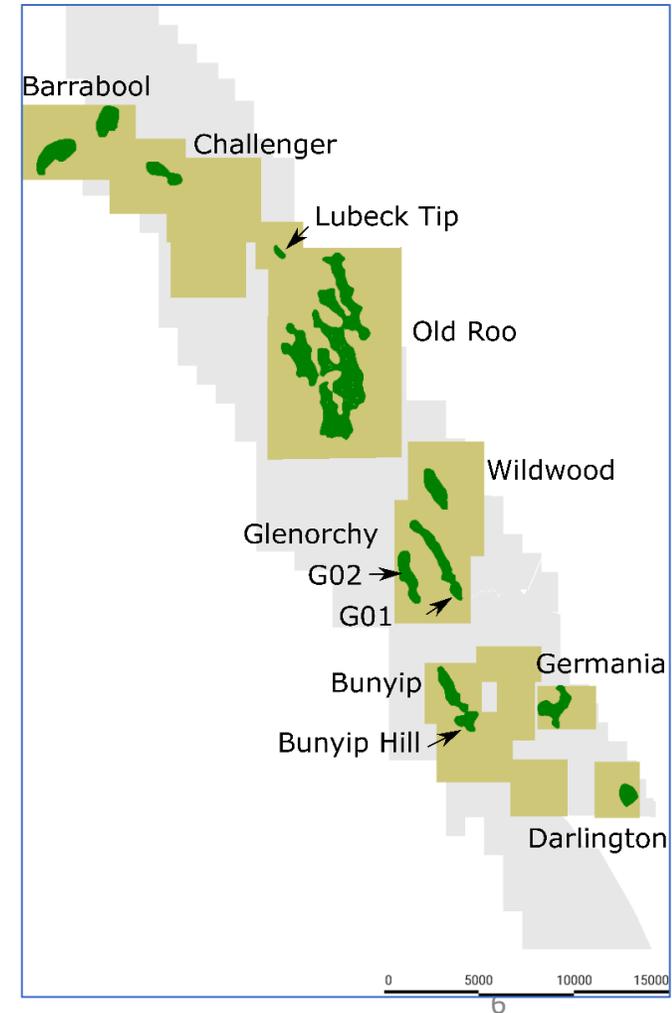
Fluid flow models are aimed at determining **likely** dilation and fluid flow patterns around basalt bodies at the time of peak gold mineralisation (440 Ma).



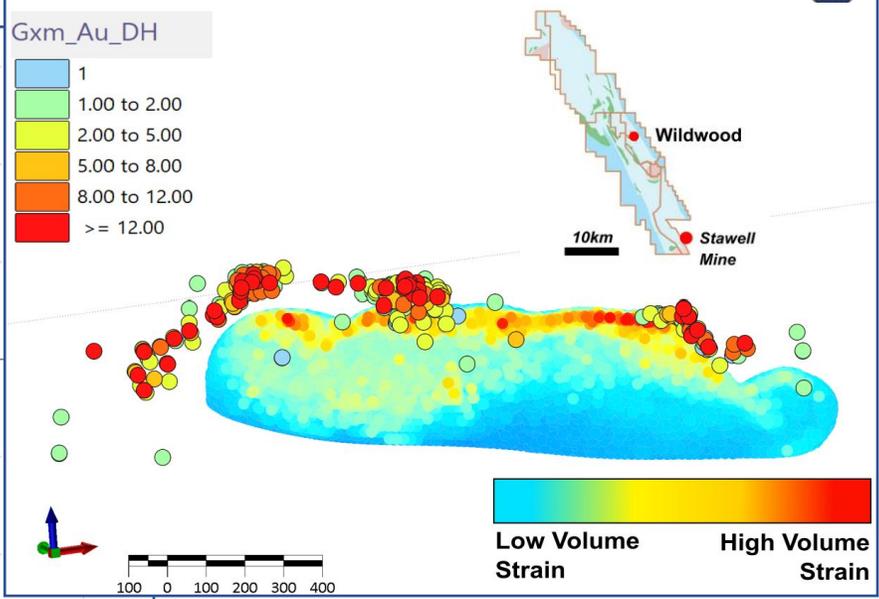
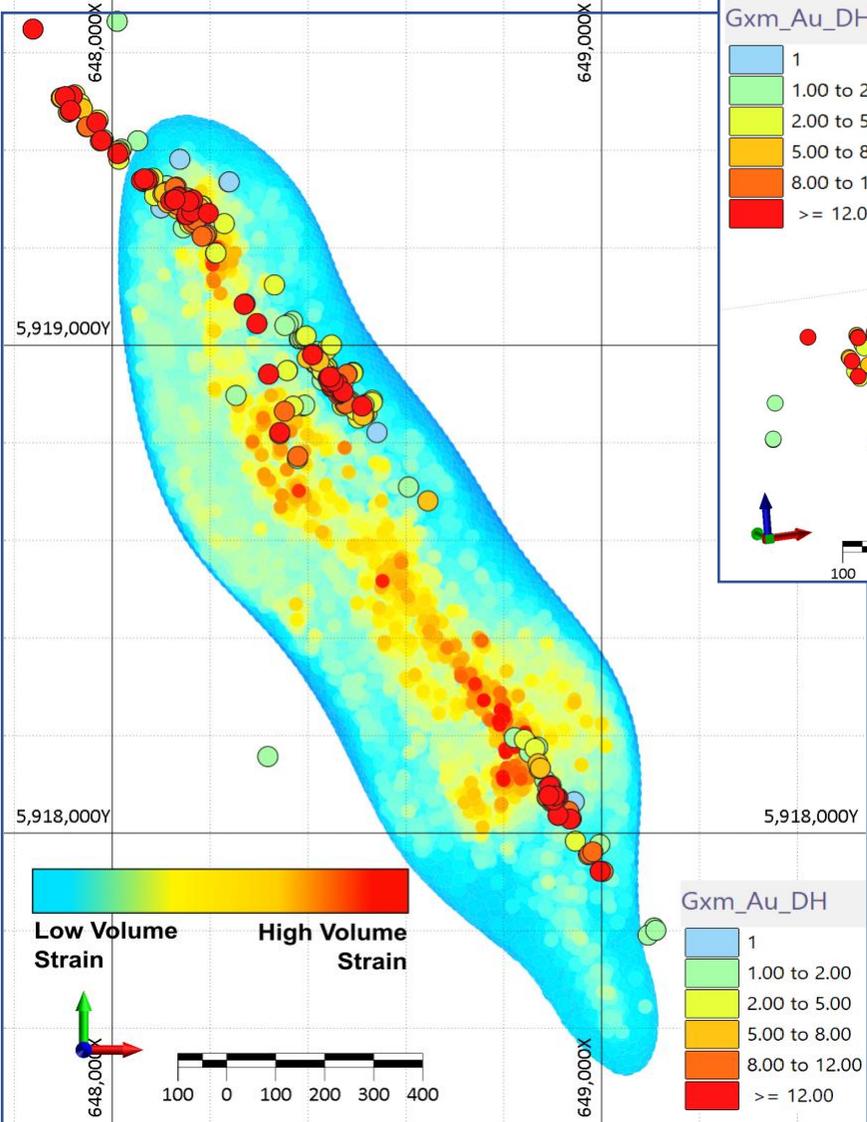
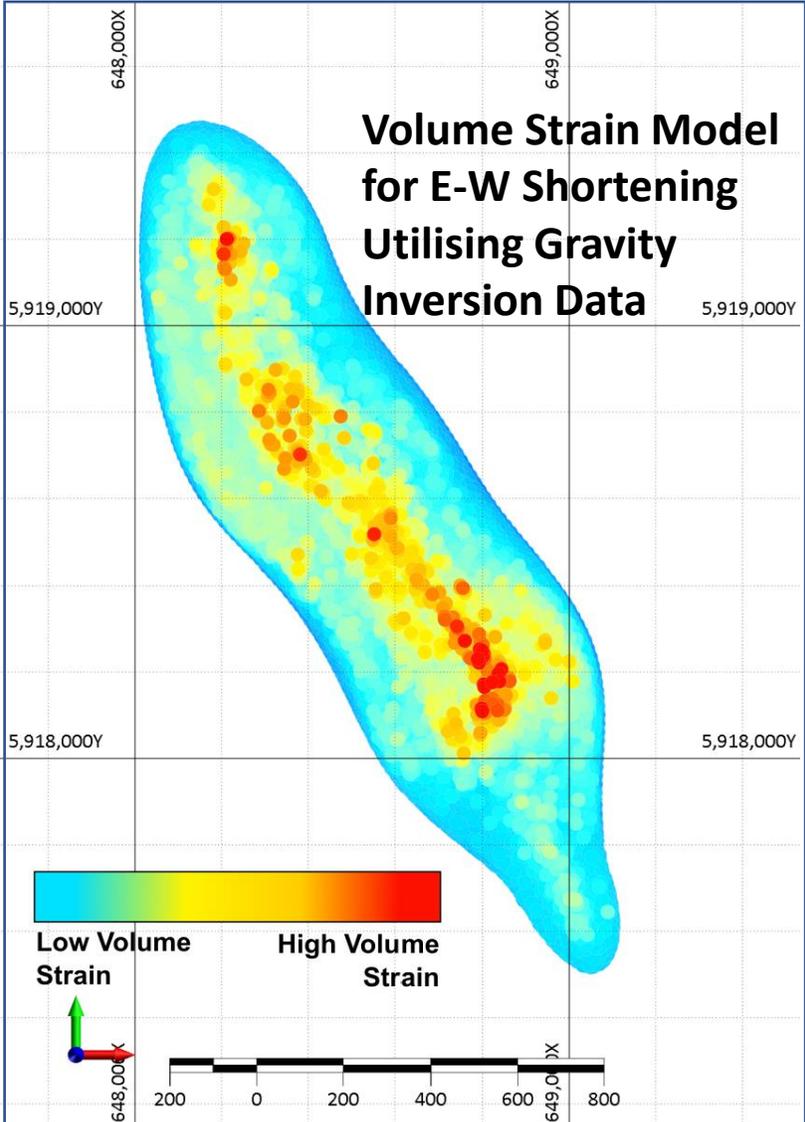
### Airborne Gravity



### Survey areas



# PROOF OF FLUID FLOW CONCEPT – WILDWOOD DOME



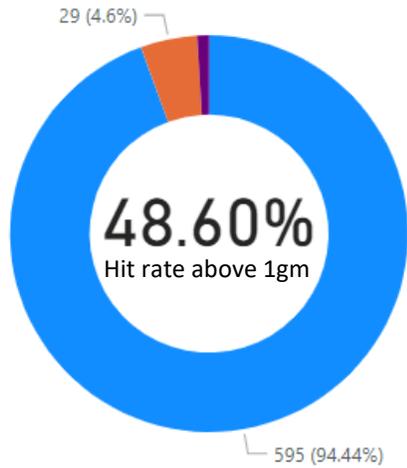
## Wildwood Significant Intersects on Volume Strain Model:

- Plan View, Left.
- Oblique view (looking NW), above.
- Max dilation from steep to shallow dip of dome.

# NSM GETTING “BETTER” RESULTS

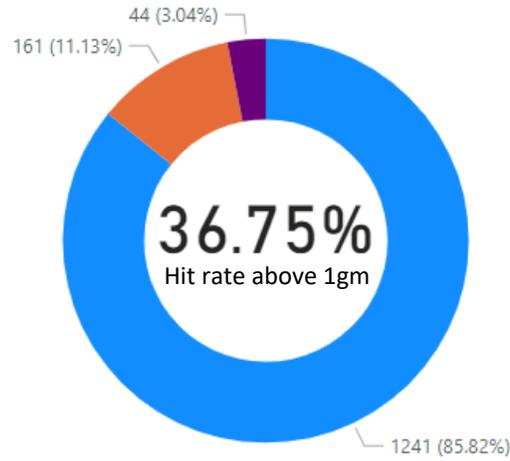


## NSM



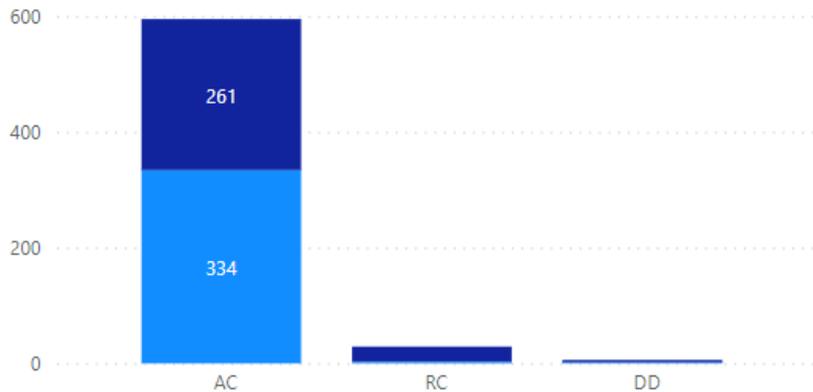
Drill Type  
 ● AC  
 ● RC  
 ● DD

## Historic

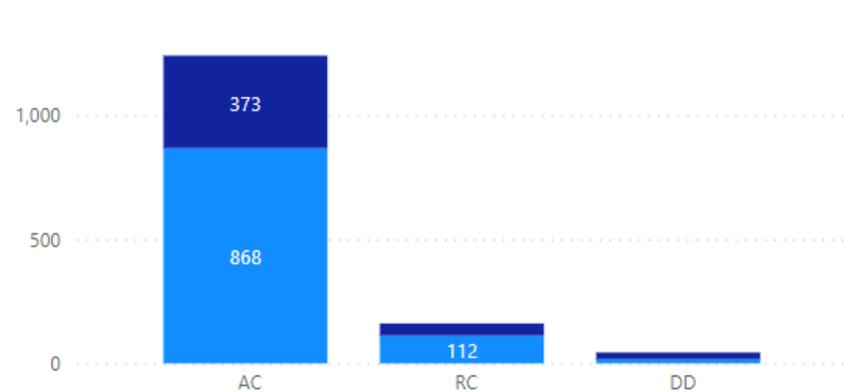


Drill Type  
 ● AC  
 ● RC  
 ● DD

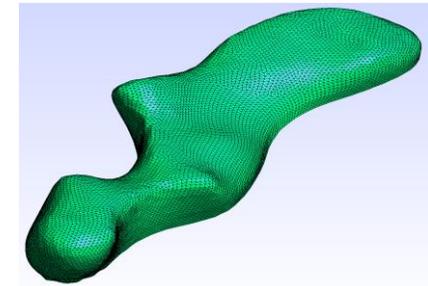
Has Intercept ● False ● True



Has Intercept ● False ● True



“BETTER SCIENCE, BETTER EXPLORATION”

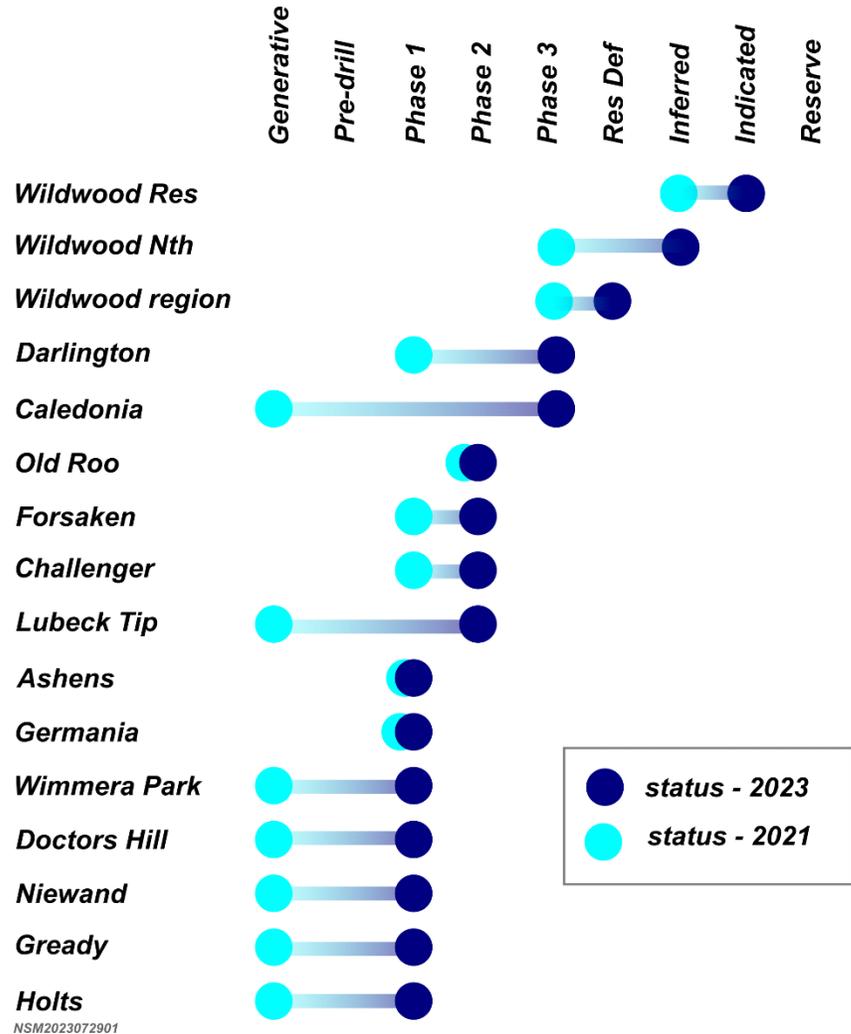


Better targetting

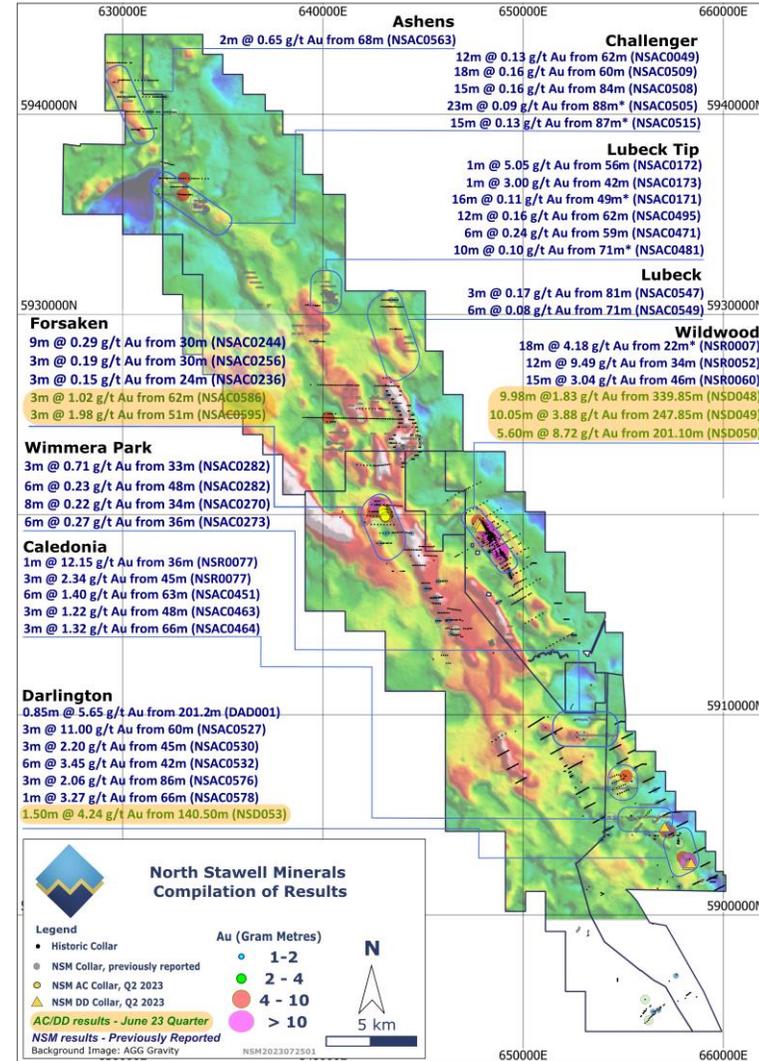


Better depth penetration

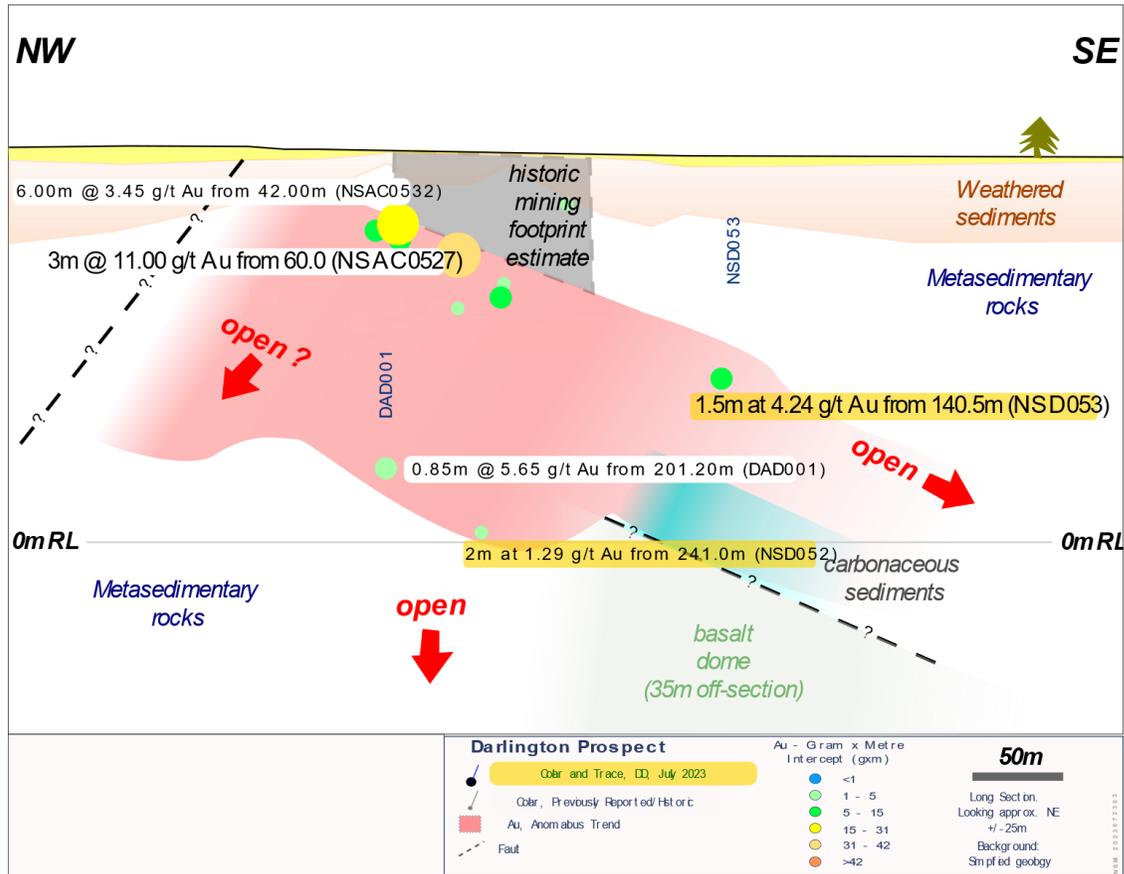
# REGIONAL PIPELINE- STRONG RECENT RESULTS



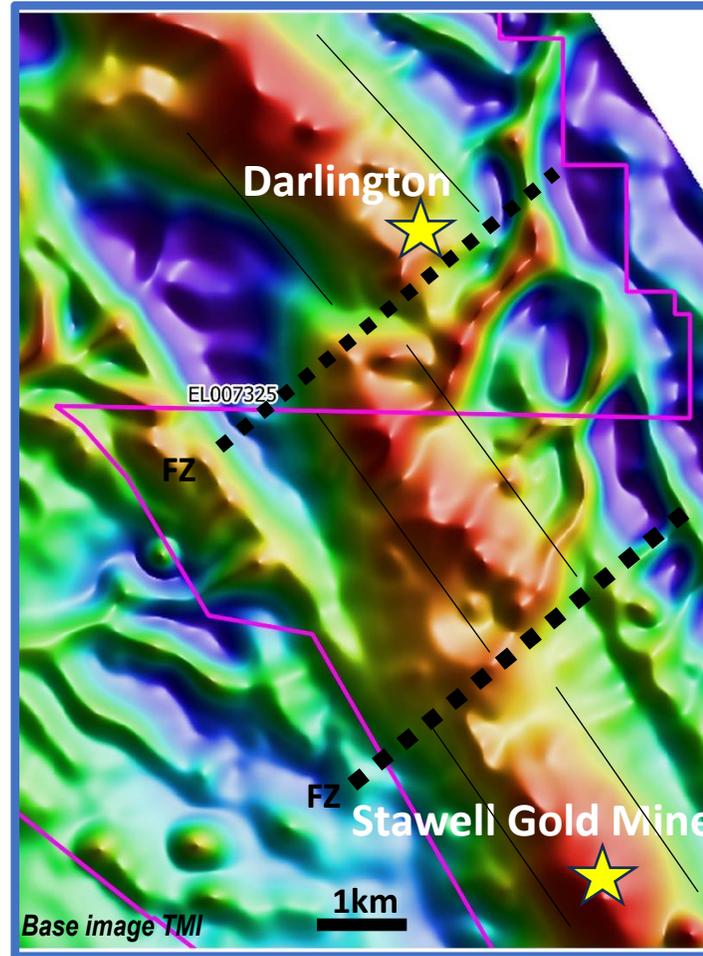
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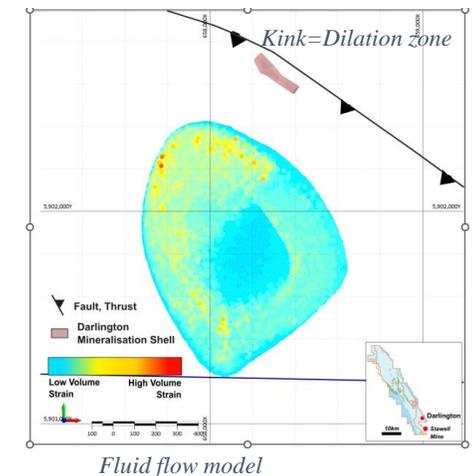
# DARLINGTON EXCITEMENT



Test down-plunge extents of the higher grade central zone following success from AC and DD.



Structural repetition of Stawell mineralised feature



# WILDWOOD RENAISSANCE



Wildwood discovery snapshot:

Regional magnetics flown 1993.

First hole: WAC001 Aug 1999.

Discovery hole: WAC078 Apr 2002.

Declared resource: 2006.

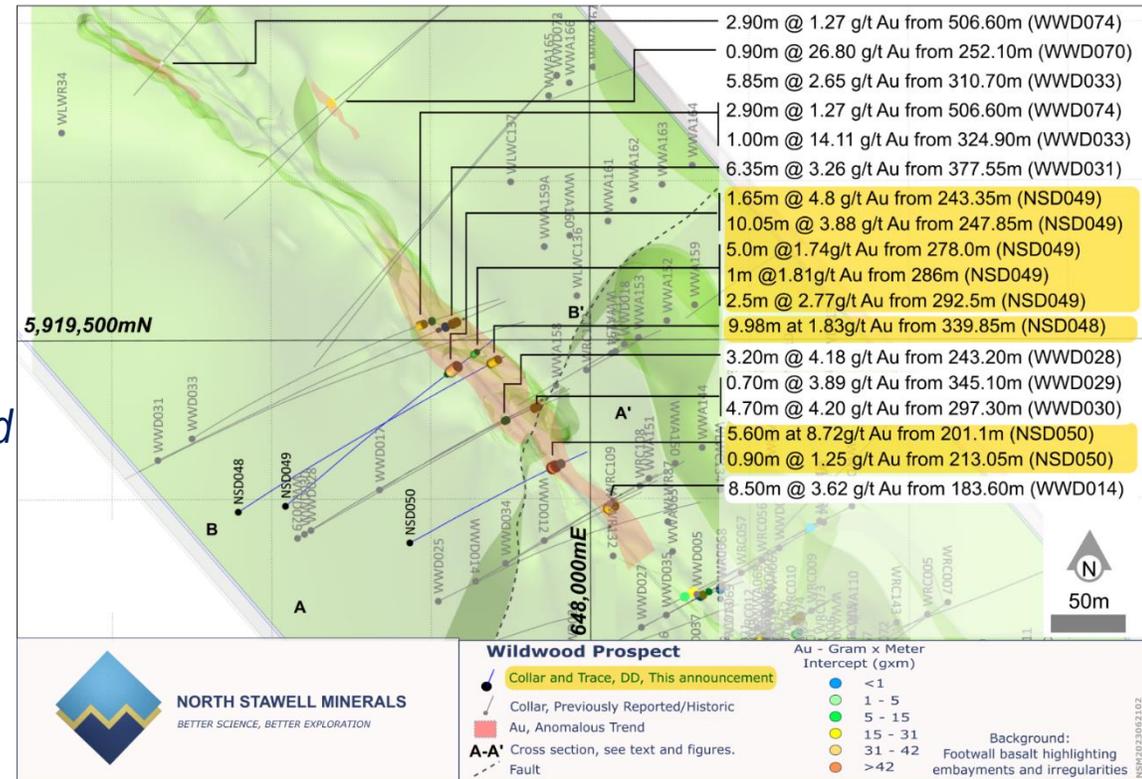
Inferred Mineral Resource (2019)<sup>1</sup>:

**875,000t at 2.0 g/t Au for 55,000 oz Au (1g/t cutoff)**

2023 program 3 Diamond holes 905m.

Drilling consolidated an ore shoot down plunge (not included in historic Inferred Resource. Best Results below<sup>2</sup>:

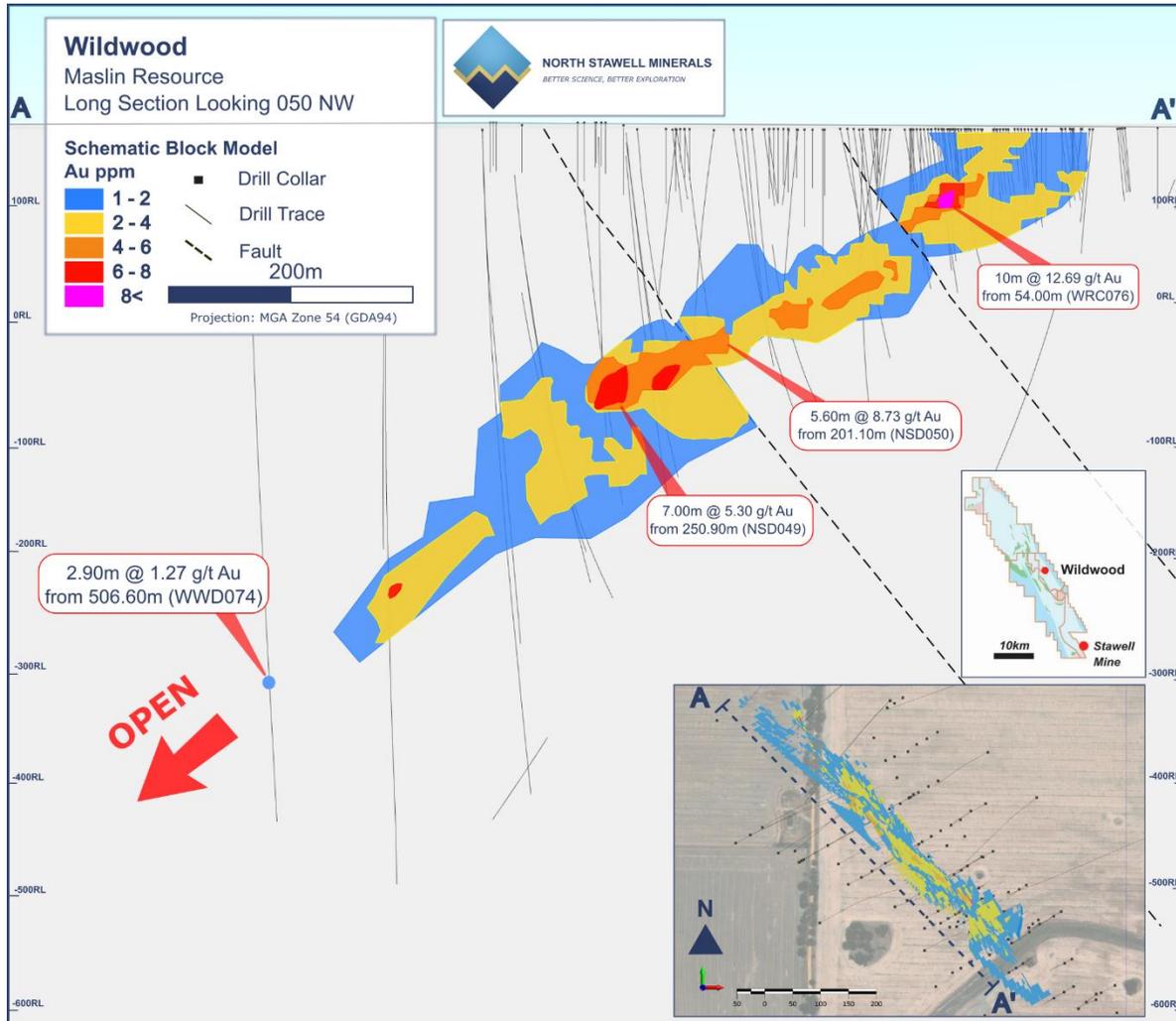
- **5.60m at 8.72g/t Au from 201.1m (NSD050)**
- **10.05m at 3.88g/t Au from 247.85m (NSD049)**
- **9.98m at 1.83g/t Au from 339.85m (NSD048)**



<sup>1</sup> Source: NSM Prospectus, 2019. [www.northstawellminerals.com](http://www.northstawellminerals.com)

<sup>2</sup> Wildwood revisited, ASX Release 23/6/23. [www.northstawellminerals.com](http://www.northstawellminerals.com)

# WILDWOOD- MINERAL RESOURCE UPDATE



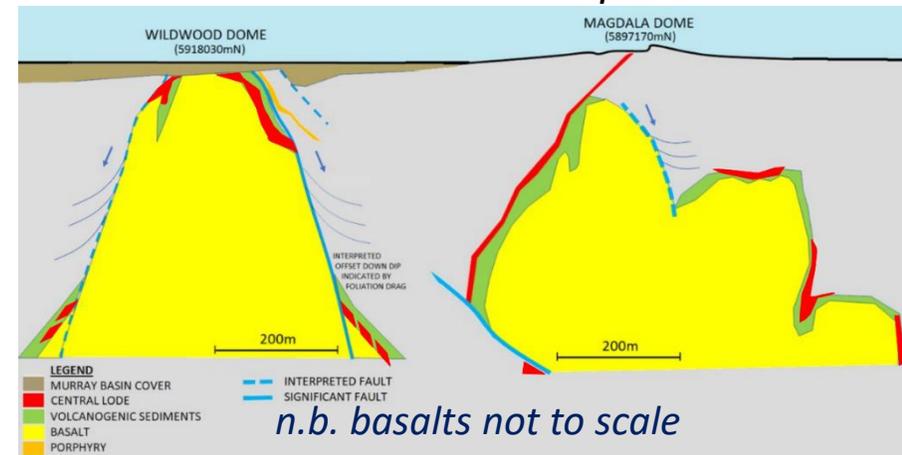
Stylized Longsection through Maslin deposit, Wildwood.

## Mineral Resource Update 2023

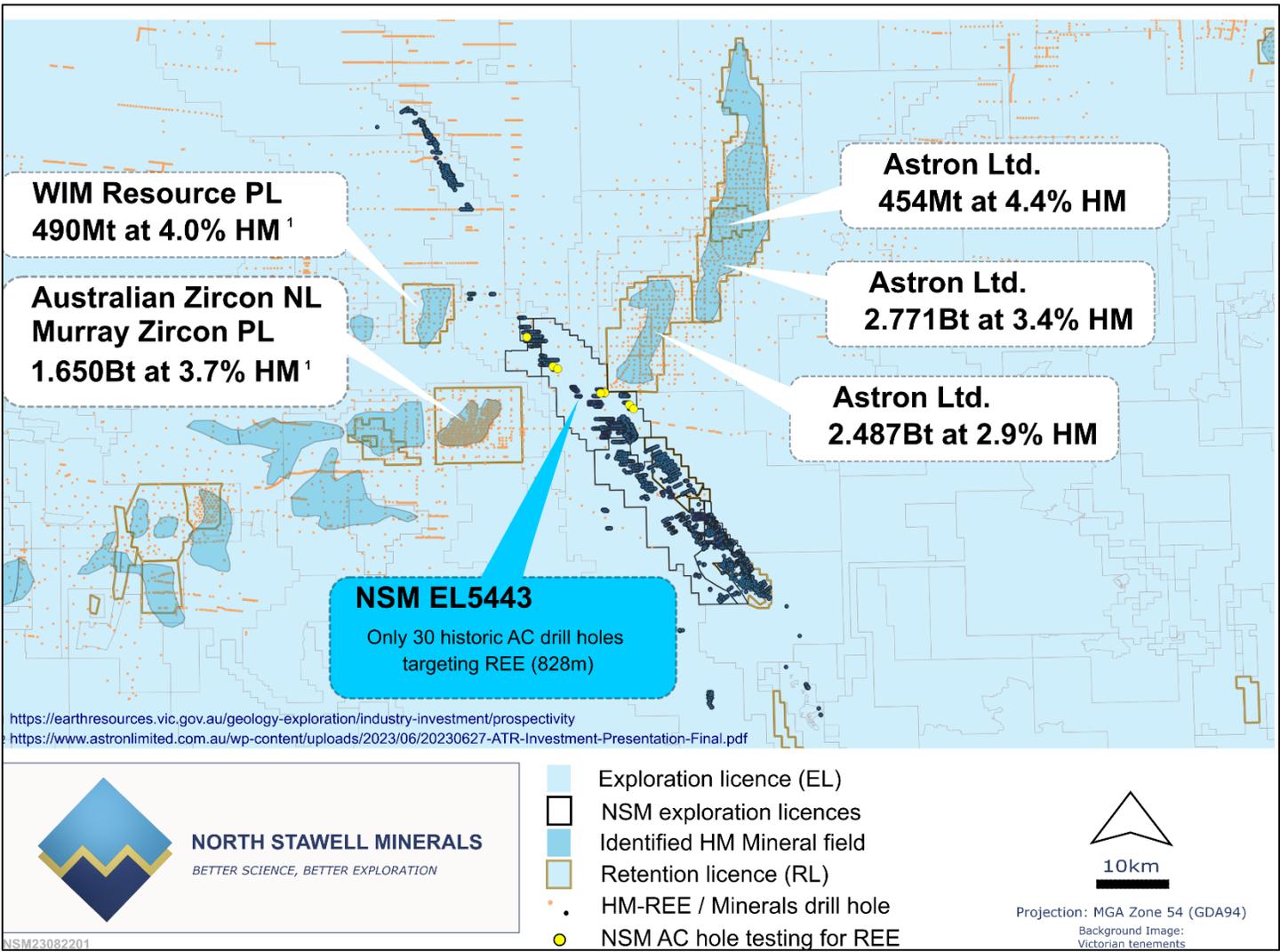
	Tonnes (t)	Grade (g/t Au)	Ounces (oz Au)
Inferred	564,600	2.4	42,700
Indicated	590,300	2.4	44,600
<b>Total</b>	<b>1,154,900</b>	<b>2.4</b>	<b>87,300</b>

All figures reported in accordance with JORC Code 2012, cut off 1g/t  
ASX Release 29<sup>th</sup> June 2023

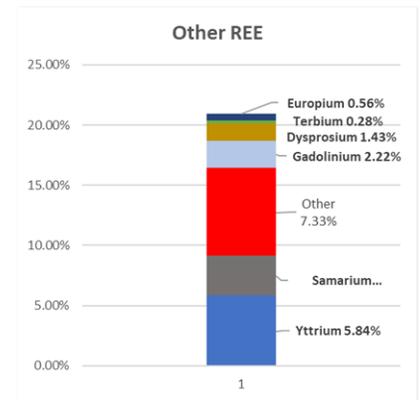
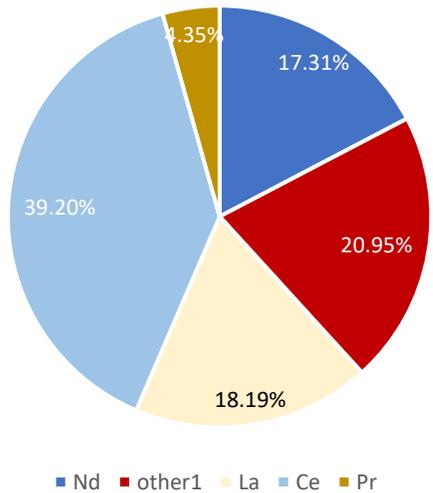
## Wildwood-Stawell Blueprint



# NSM- REE POTENTIAL



REE Distribution NSM



Interesting signatures, in holes aiming at deeper Gold targets.

# NSM- CORPORATE ADVANTAGE



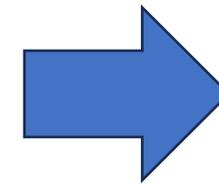
A strong relationship with with Stawell Gold Mines brings maturity to “back-end” structures well beyond a typical junior.



**Better Science, Better Exploration** through inversion modelling and Fluid flow dynamics. REE opportunities.



Blueprint for success-**We can touch and visualize Stawell Type model.**



**Working together with all stakeholders for a sustainable, productive and responsible outcome.**

# NSM- CORPORATE ADVANTAGE- ESG



## Integrity and Transparency

Strong relationships built on trust - Clear and transparent communication with stakeholders, investors and our community.



## Diversity and Inclusion

Creating local employment and growth opportunities in regional Victoria. 60% of our workforce are women.



## Environment Conscious

Strong land stewardship practices across zero-to-low impact exploration, waste management, equipment sourcing and rehabilitation post-exploration.

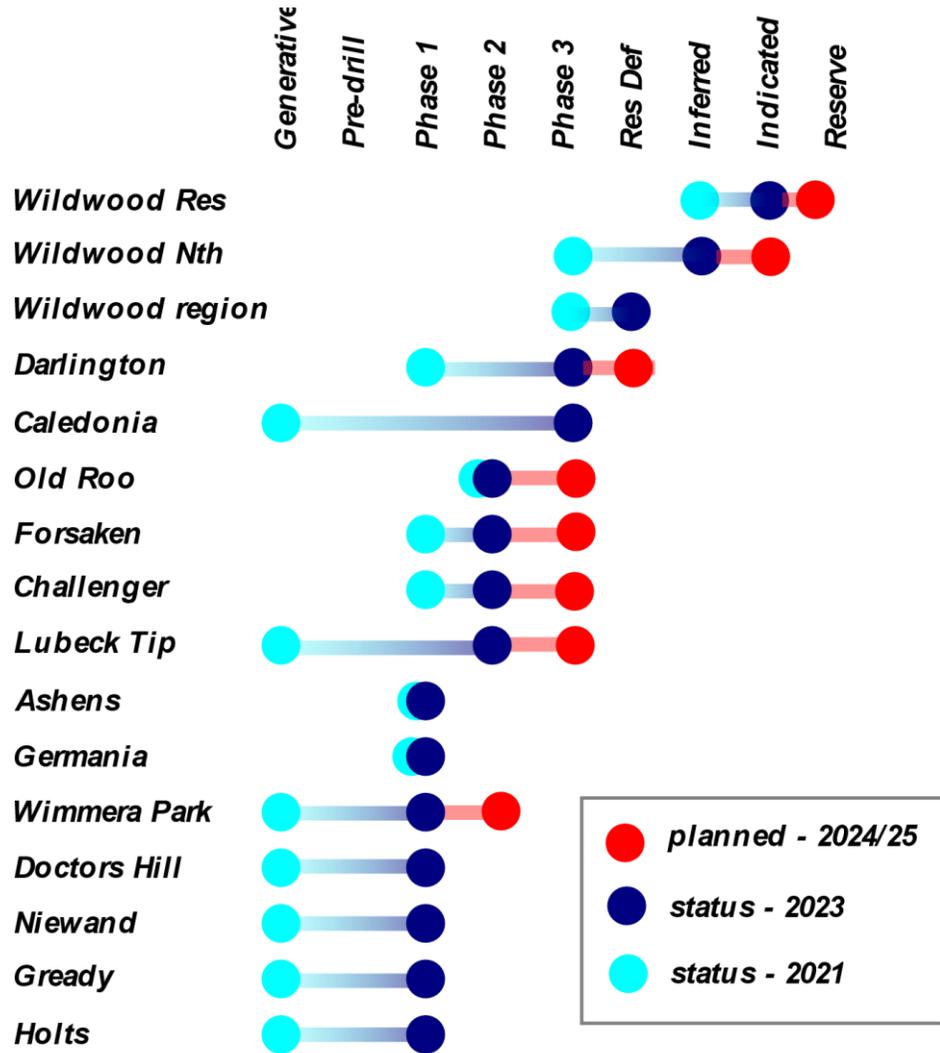


## Accountability

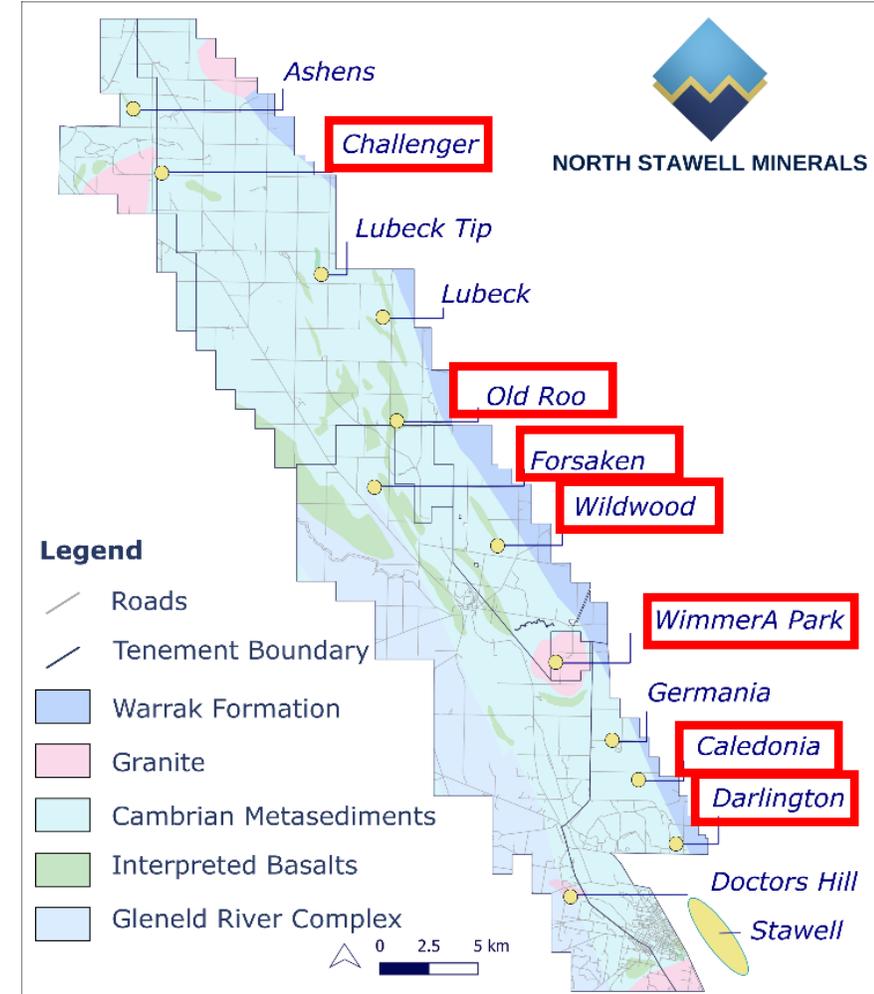
All of our policies are publicly available online, as are our reports. Our land access agreements for all exploration efforts are lodged with governing body, Earth Resources.



# REGIONAL PIPELINE- 2024/2025



NSM 2023072901



NORTH STAWELL MINERALS

**THANK YOU FOR YOUR ATTENTION**



**Come and visit us @ Booth 29**