



ASX Code: TRT

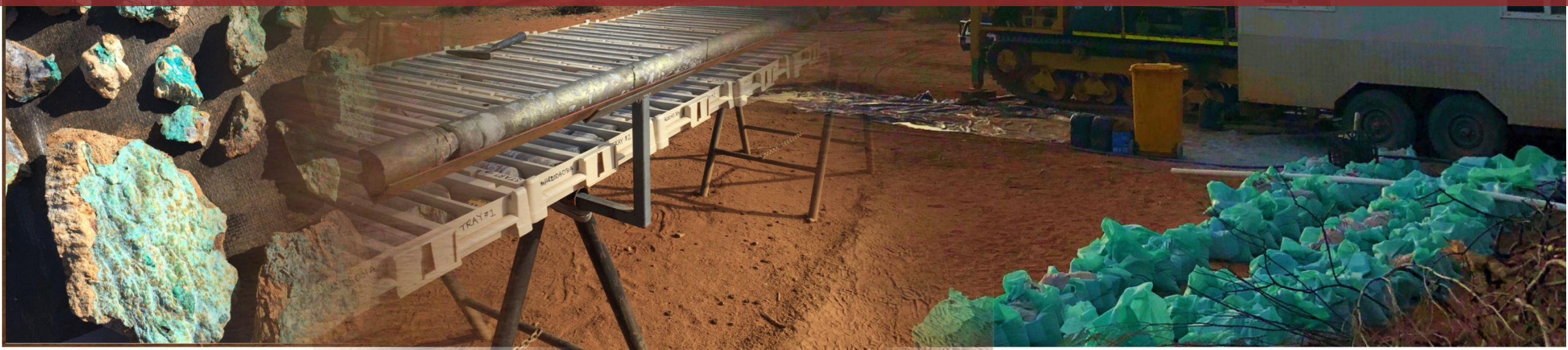


**TODD RIVER  
RESOURCES**

## Resource Rising Stars – Gold Coast

*Will Dix, Managing Director*

*June 2019*





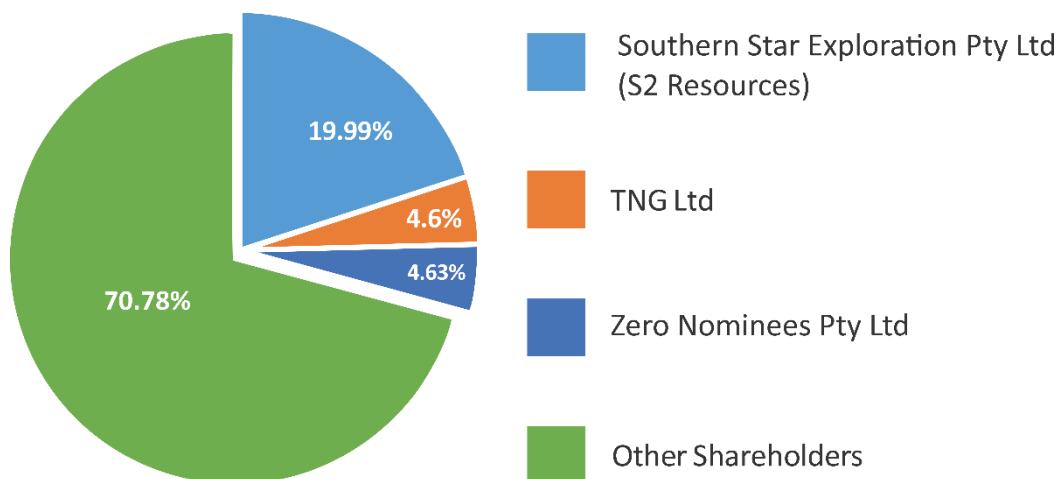
# Todd River Resources: Corporate Overview



## Key Corporate and Financial Data

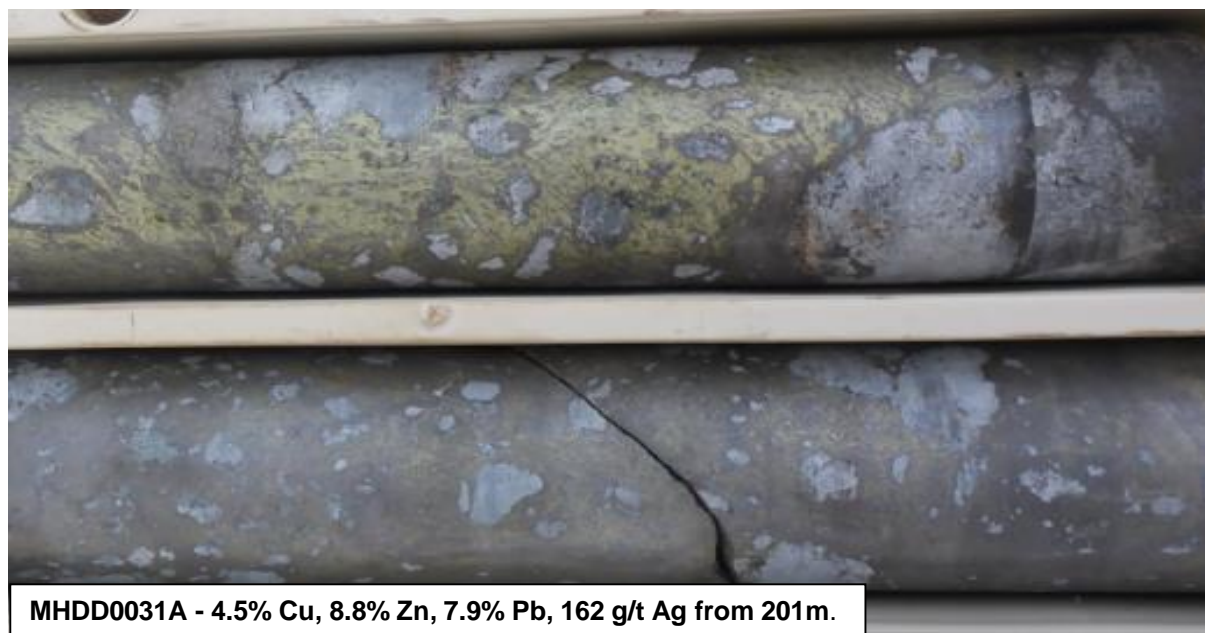
<b>ASX code:</b>	<b>TRT</b>
<b>Shares on issue:</b>	<b>151.5M</b>
Market Capitalisation (at 6.0c):	\$9.0M
Unlisted Options (various pricings):	24.5M
Listed Options (\$0.25 March 2020):	31.4M
<b>Cash (March 2019):</b>	<b>\$3.6M</b>

## Major and Significant Shareholders



## Board of Directors

<b>Edward Fry</b>	Non-Executive Chairman
<b>Will Dix</b>	Managing Director
<b>Mark Bennett</b>	Non-executive Director
<b>Stuart Crow</b>	Non-executive Director



# Our Projects – The Last 12 Months



## Mount Hardy (100% TRT): Copper-Zinc Discovery

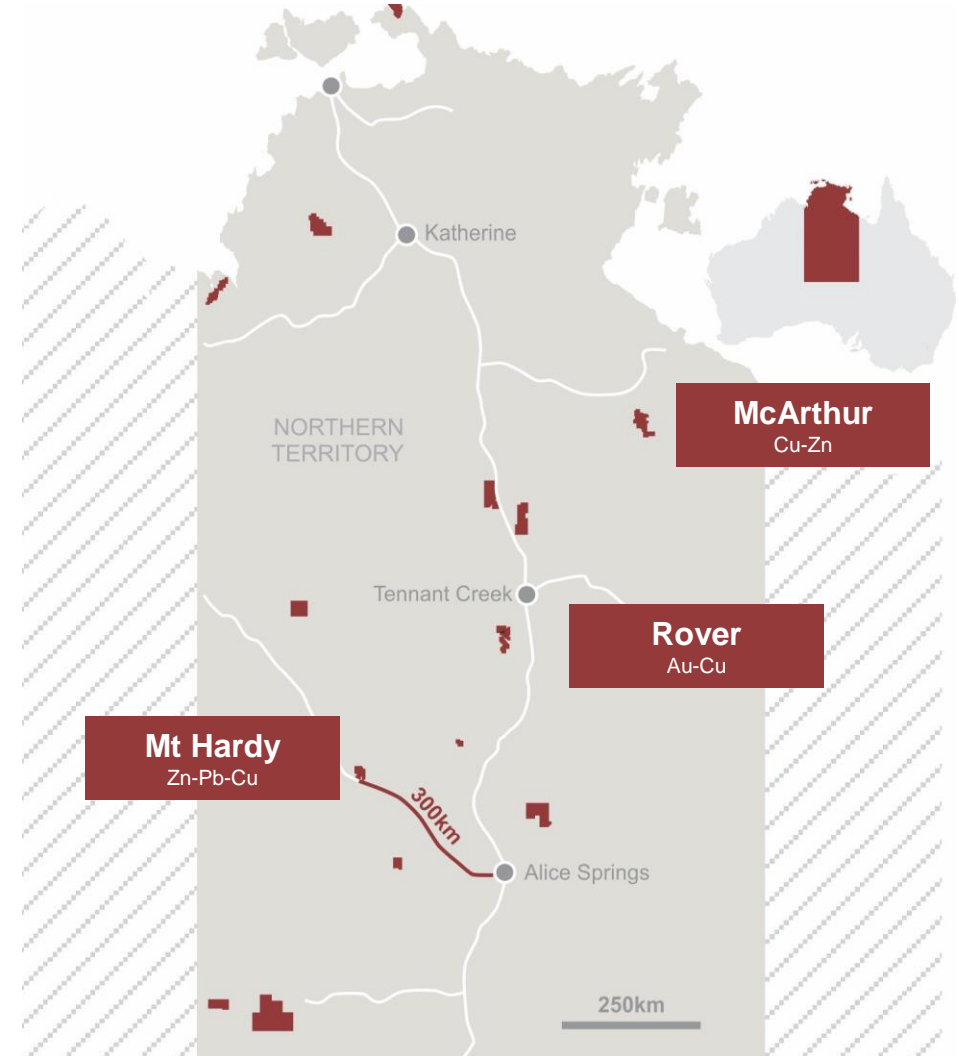
- **Hendrix base metal Discovery - DRILLING ONGOING**
- Extensional Geophysics – ONGOING
- Structural geological modelling – UNDERWAY
- Regional drilling – UNDERWAY
- Additional targets being evaluated

## Rover (100% TRT): Gold-Copper

- Drill priority (top 2) “mag high” Au-Cu targets – COMPLETED (assays to come)
- Simple, well understood exploration model
- Along strike from Westgold’s Rover 1 deposit (1.2M Oz Au equiv)

## McArthur River (100% TRT): Copper-Zinc

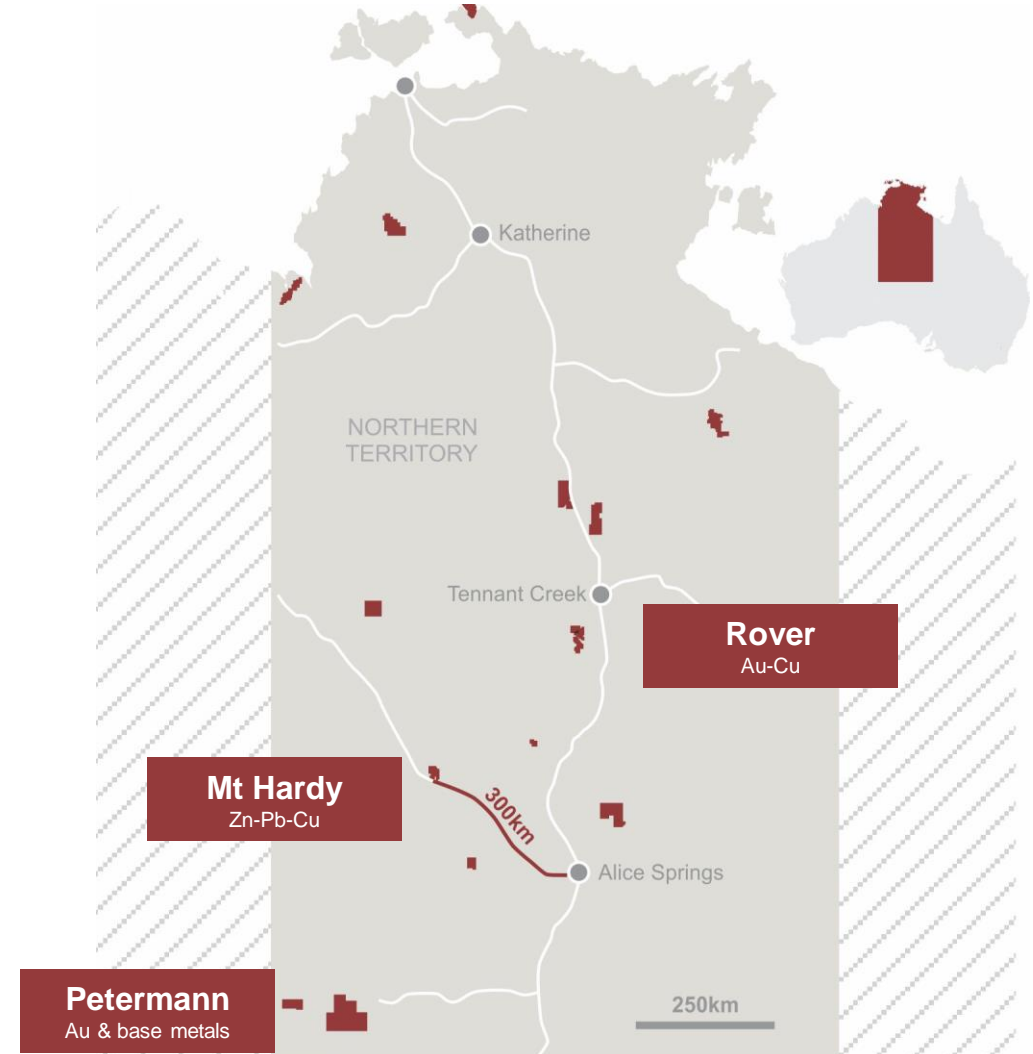
- Mapping and sampling completed in 2017
  - Up to 44.5% Cu in rock chip samples
- Drilling of initial 3 hole program completed in 2018 - minor sulphides in MCDD0004
- Currently a CSIRO collaborative geophysics/basin analysis project underway – TRT cost subsidised by Fed Gov grant and CSIRO



# 2019 Expanding the Exploration Footprint



- New Board and technical management - **NEW APPROACH**
- **BASE METAL DISCOVERY AT MT HARDY (Hendrix)**  
Expansion along strike and infill ONGOING
- Ground EM and downhole EM surveying continuing at Mt Hardy to cover high priority targets/holes,
- Drilling new targets - Lennox, Browns - **UNDERWAY**
- Drilling just finished at Rover (collaborative Funding) – waiting on assays
- **Petermann Range Project – significant land position in the Musgrave Province - moving to grant.**
- Well Funded with solid capital structure and very supportive new cornerstone investor - **HIGHLY LEVERAGED TO SUCCESS**



# Mount Hardy Copper-Zinc Project – The Path to the Hendrix Discovery



## 2012 and 2013:

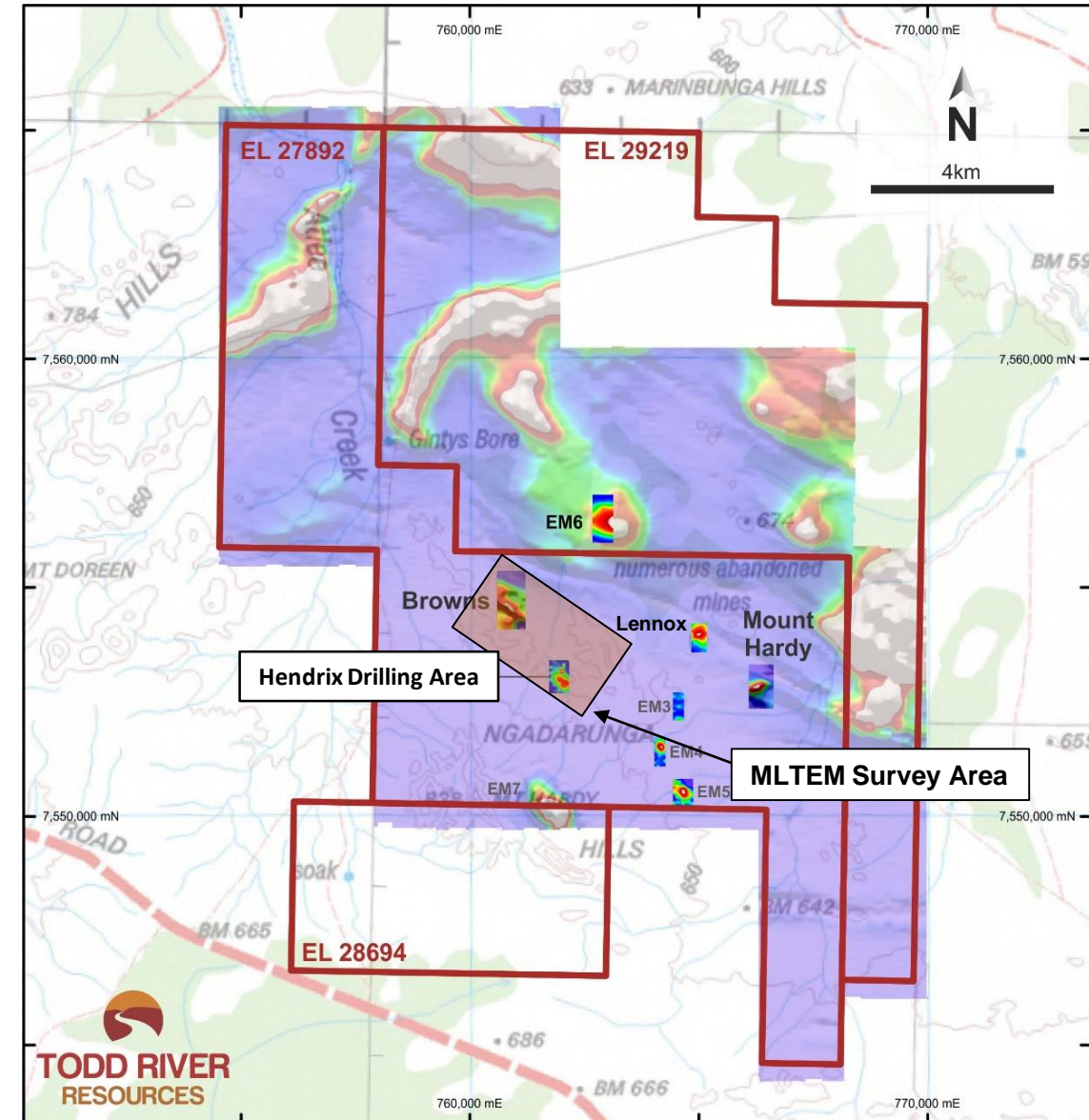
- TNG Ltd purchased ELs from Walla Mines Ltd;
- 900line/Km HELITEM survey **identified 23 airborne EM targets;**
- 7 RC holes drilled to test 4 targets confirmed mineralisation ~100-200m deep at Hendrix – **HANGINGWALL ZONE;**
- Completed IP & Gravity surveys;
- 15 DD holes drilled and minor mineralisation intersected at Browns, Mt Hardy and **Hendrix (MHDD0010, 21m at 6.8% combined BM);**
- Outstanding Downhole EM Conductor Identified

## 2017 – Mt Hardy transferred from TNG to TRT in spin-out

- 14 DD holes drilled targeting surface and DHEM conductors

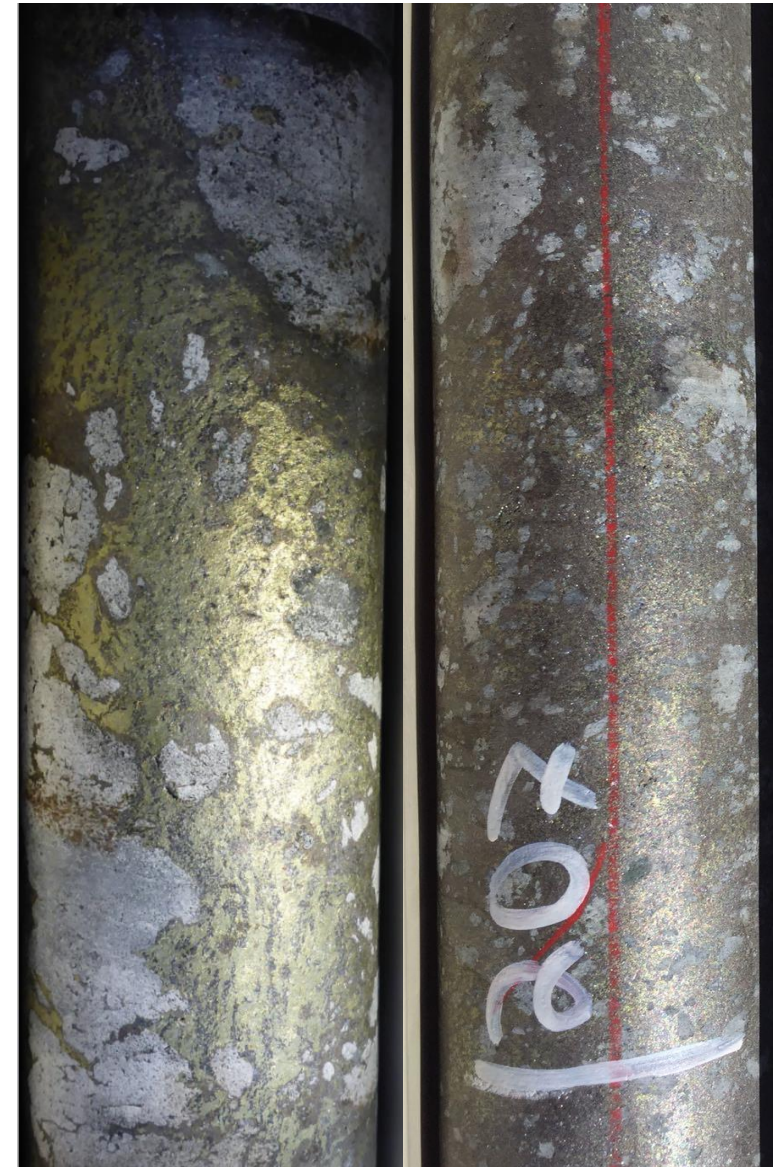
## 2018 - Drilling planned to test downhole EM conductor in MHDD0010 which intersected 21m @ 6.8% combined BM

- **First 2018 Hole at Hendrix - MHDD0031A intersected:**
- **25.15m @ 2.4% Cu, 4% Zn, 3.1% Pb from 184m**  
**Incl: 9.15m @ 4.5% Cu, 8.8% Zn, 7.6% Pb and 162g/t Ag**





# Discovery Hole - MHDD0031A mineralisation

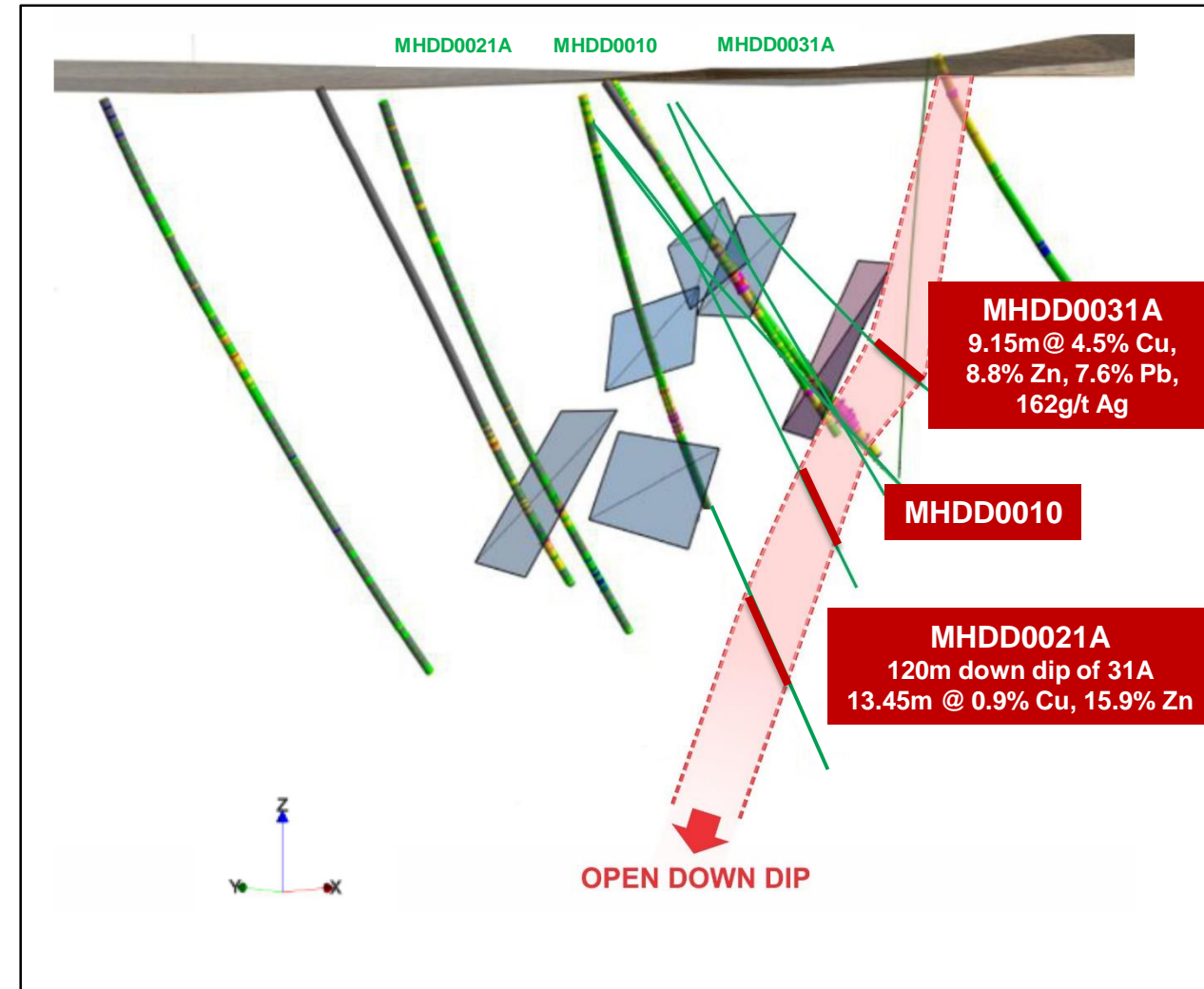




# Mount Hardy Copper-Zinc Discovery



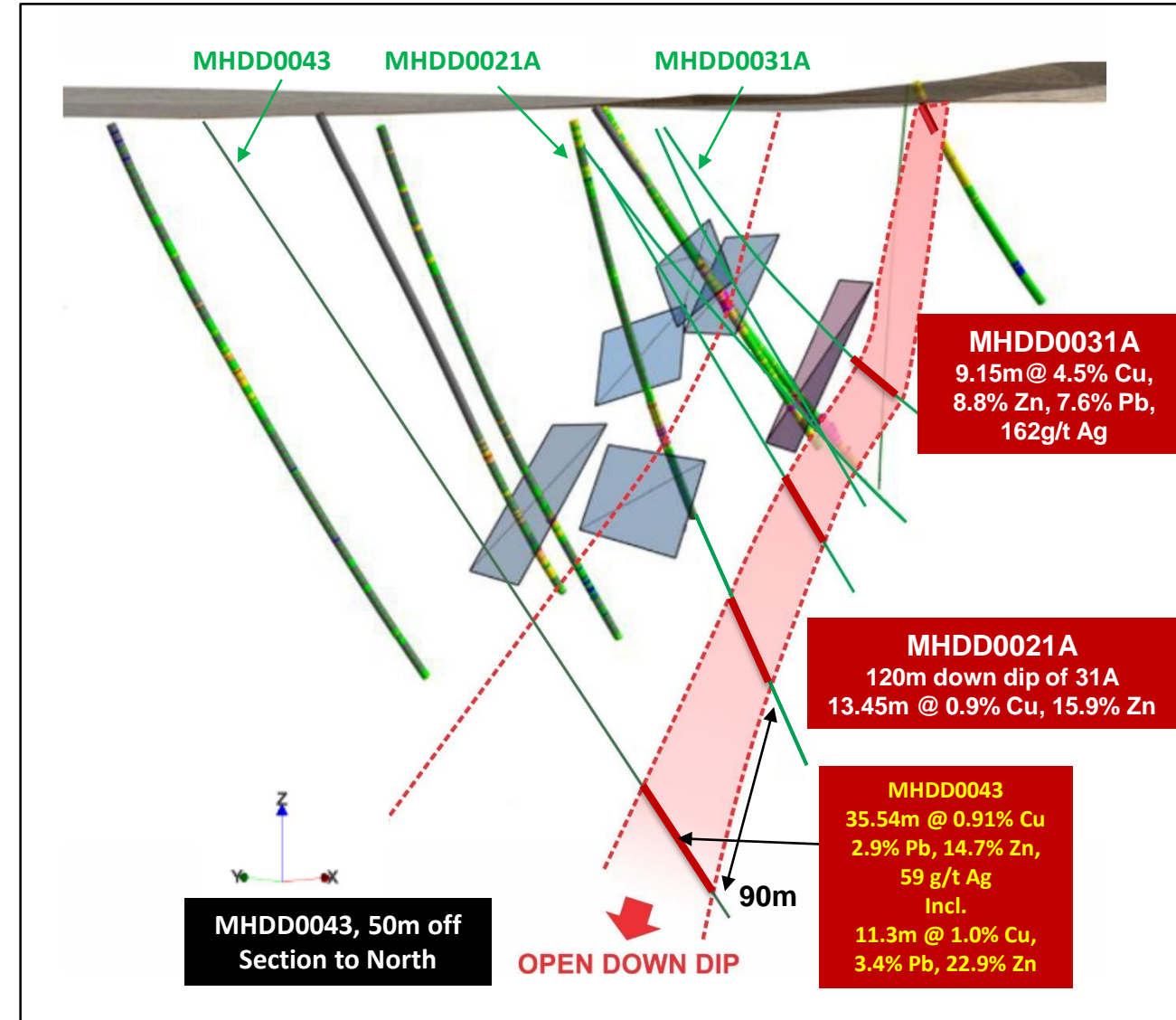
- First hole of 2018 (MHDD0031A) intersected significant base metal mineralisation. Assays returned:
  - 25.15m @ 2.4% Cu, 4% Zn, 3.1% Pb from 184m  
**Incl: 9.15m @ 4.5% Cu, 8.8% Zn, 7.6% Pb and 162 g/t Ag**
- Identified other opportunities within existing drilling;
- Extension of old hole MHDD0021 drilled as follow up;
- Hole MHDD0021A intersected further significant base metal mineralisation **120m down plunge** from MHDD0031A:
  - **13.45m @ 0.9% Cu, 15.9% Zn, 5.75% Pb from 358.55m**
- Down Hole EM used to expand the exploration search window
  - Identified additional target areas below and north of 21A



# Mount Hardy Copper-Zinc Discovery – Phase 2 Immediate Success

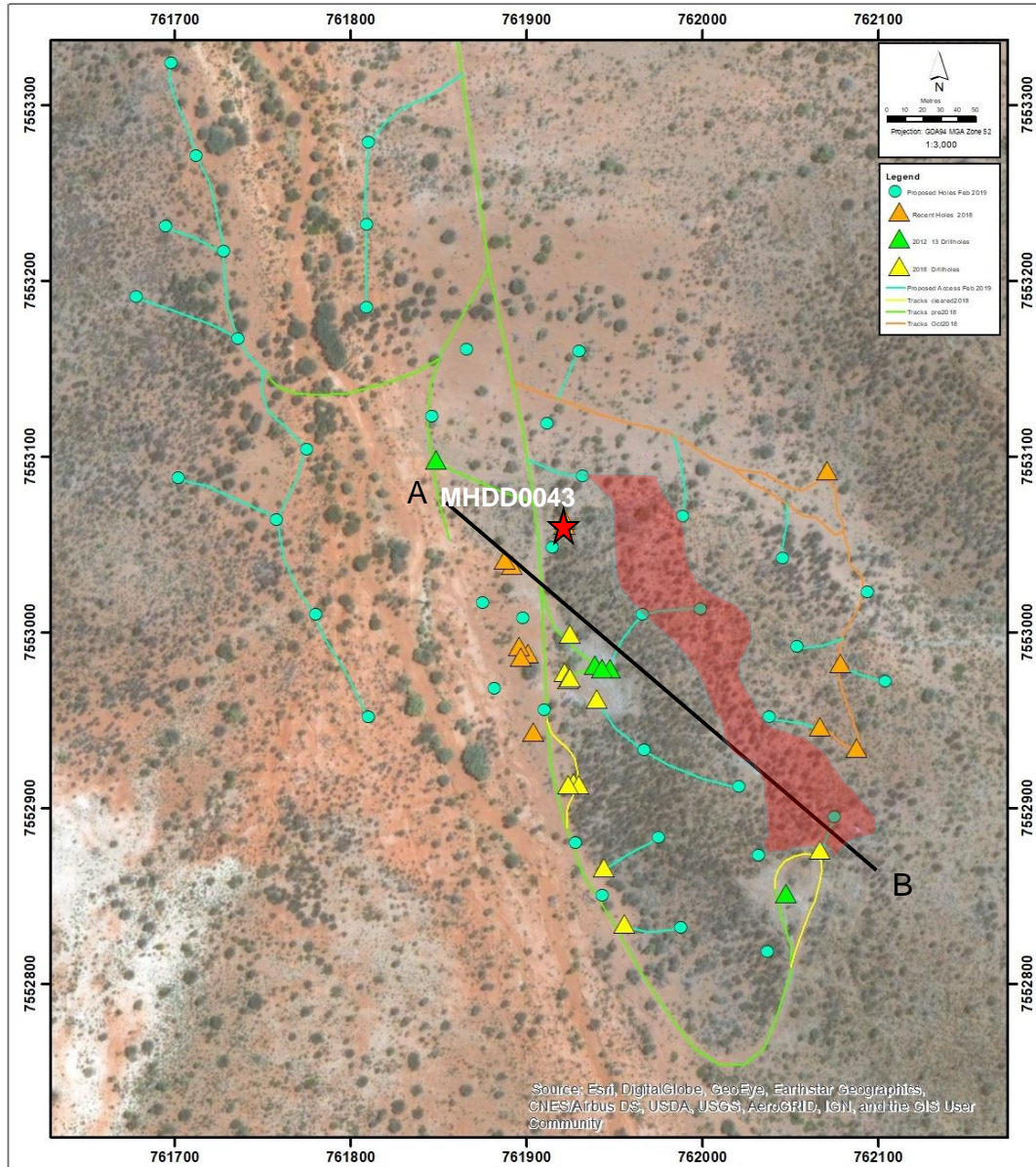


- Stage 2 drilling (up and down dip and along strike) Completed mid-December 2018
- Hole **MHDD0043** deeper and NORTH - significant base metal mineralisation **90m down dip and 50m north** of MHDD0021A:
  - **35.54m @ 0.91% Cu, 2.9% Pb, 14.7% Zn incl:**
  - **11.3m @ 1.0% Cu, 3.4% Pb, 22.9% Zn**
- **MHDD0042** deep and SOUTH of MHDD0043:
  - **24.54m @ 0.68% Cu, 0.29% Pb and 4.86% Zn**
- Geophysics suggests the thicker more continuous zone of mineralization is 80m north



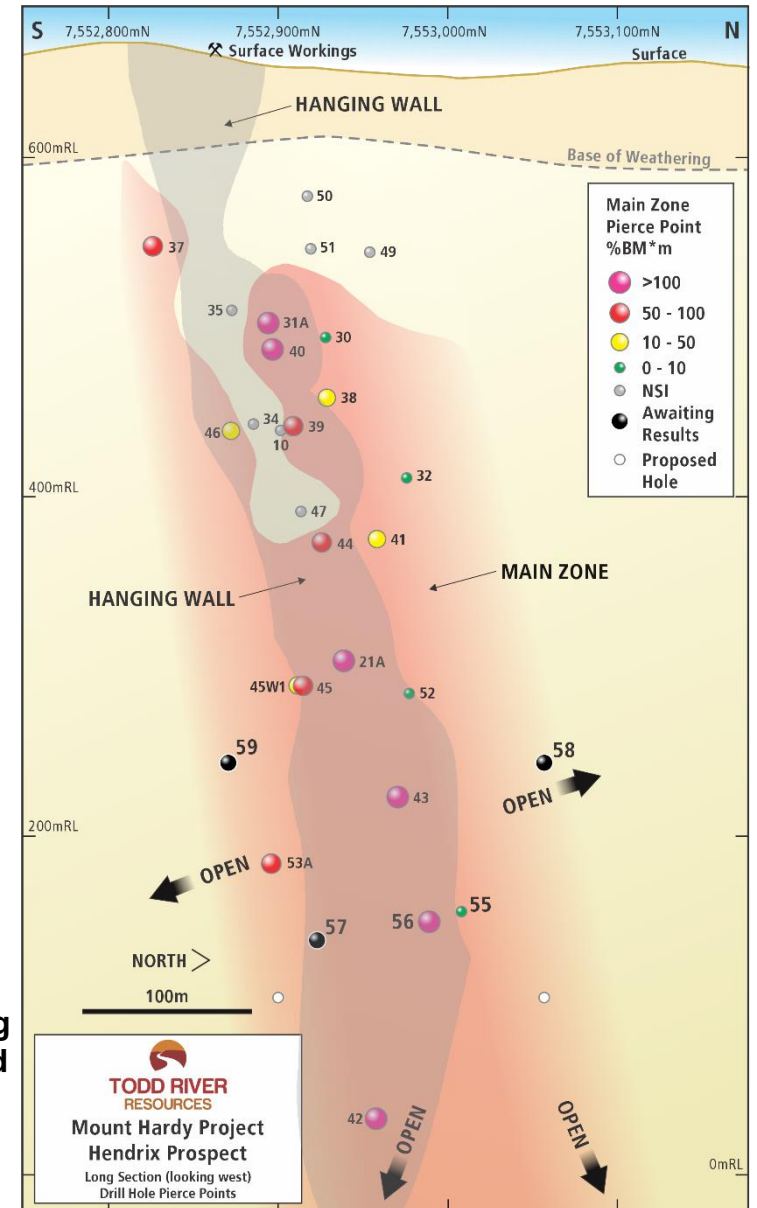


# Hendrix Copper-Zinc Discovery – Plan and Long Projection



Collar location plan with X-section line showing completed and planned 2019 holes and approximate projection of the main mineralisation.

Long Projection looking ENE showing combined base metals and planned 2019 phase 1 pierce points.





## Metallurgical Sighter Program – designed to determine 3 things:

- Does the sulphide float?
- Can the metals be separated into individual concentrates?
- Are there obvious deleterious elements we need to worry about?

## Outcomes:

- **3 separate high quality Concentrates Produced - Copper, lead and Zinc**
- **Zinc concentrate values (55%) indicate a premium product with low impurities**
- Recoveries exceeding 85% with improvement expected through optimisation of the flowsheet
- No sign of significant deleterious elements in any of the 3 concentrates
- Further work at a time to be determined to focus on improving overall grades and recoveries



Copper Concentrate



Lead Concentrate



Zinc Concentrate





## Downhole geophysics on selected holes (EM and Magnetics)

- Atlantis probe to investigate the geometry of the mineralisation at depth and where pegmatites have been intersected
  - Where does it thicken?
  - How much further can it be seen down plunge and where along strike?

## Structural Mapping and drill core analysis

- Correlation of geometries logged with structural surface mapping
  - Similarities
  - Also relevant for drilling underway at Lennox and Browns

## Drill planning July onwards

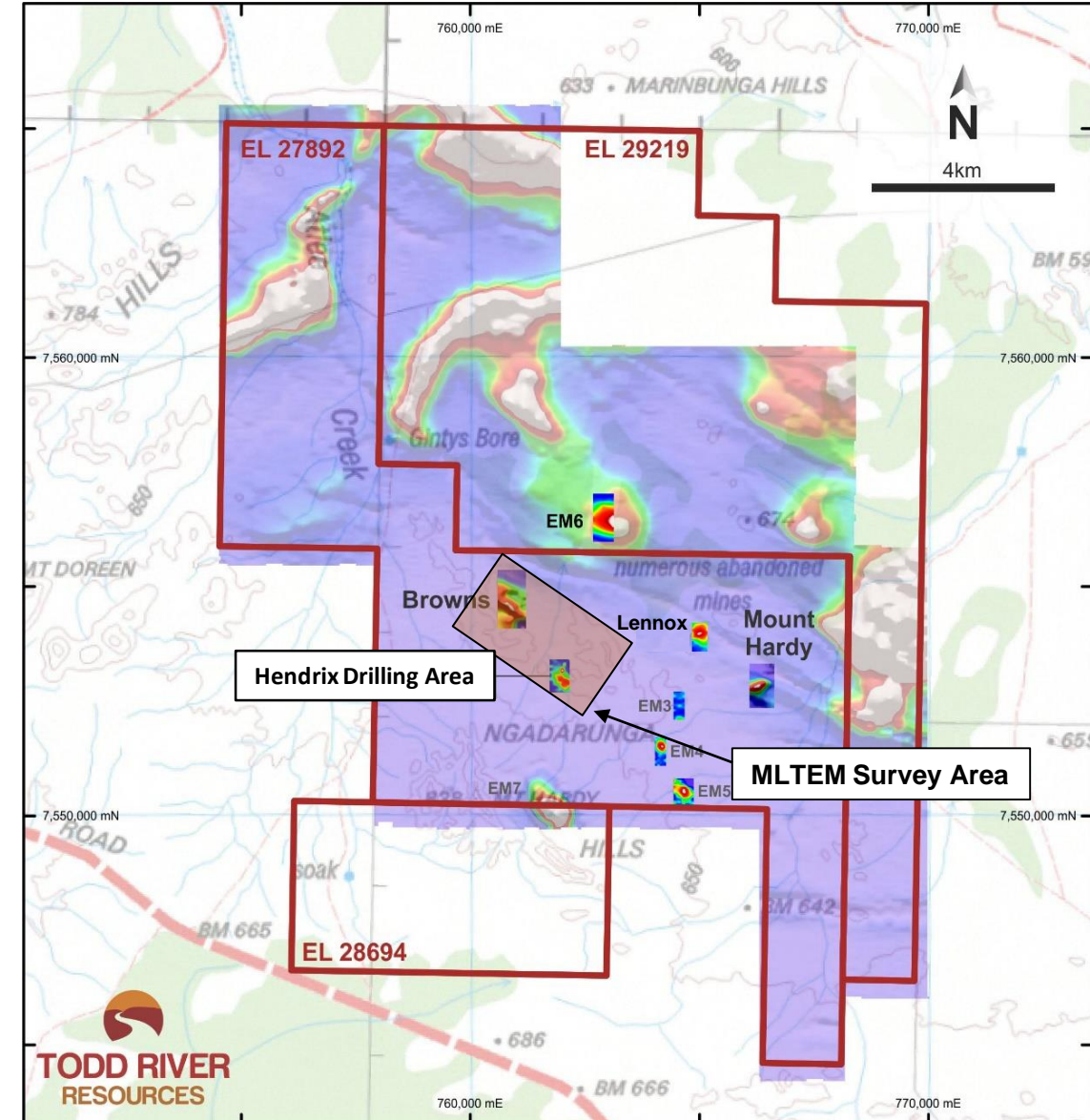
- Outcomes of geophysics and geological mapping/logging to optimise deeper holes and drilling north of Hendrix – targeting thickest zones and possible extensions
- Vectoring to new zones away from Hendrix
- Program design to be finalised in June



# Mount Hardy Copper-Zinc Project – Regional Exploration



- MLTEM survey completed coverage over Browns and immediately to the south – highly resistive terrain with some unresolved conductors
- Regional mapping corridor between EM5 and Browns to constrain MLTEM **underway**
- Follow up drilling at Browns (**13m @ 1.17% Cu & 1.9% Zn drilled in 2013**) **Underway and on-going**
- Review of Lennox area identified additional drill targets from previously acquired DHTEM data (similar to Hendrix)
- Previously identified stringer sulphide mineralisation requires follow up to explain large EM conductor plate drilling underway
- Review of Mt Hardy – EM6 trend (Mt Hardy - 1m @ 9.44g/t Au) – requires follow up and further work – 2<sup>nd</sup> half of 2019
- Other Heli-TEM conductors being reviewed and re-assessed

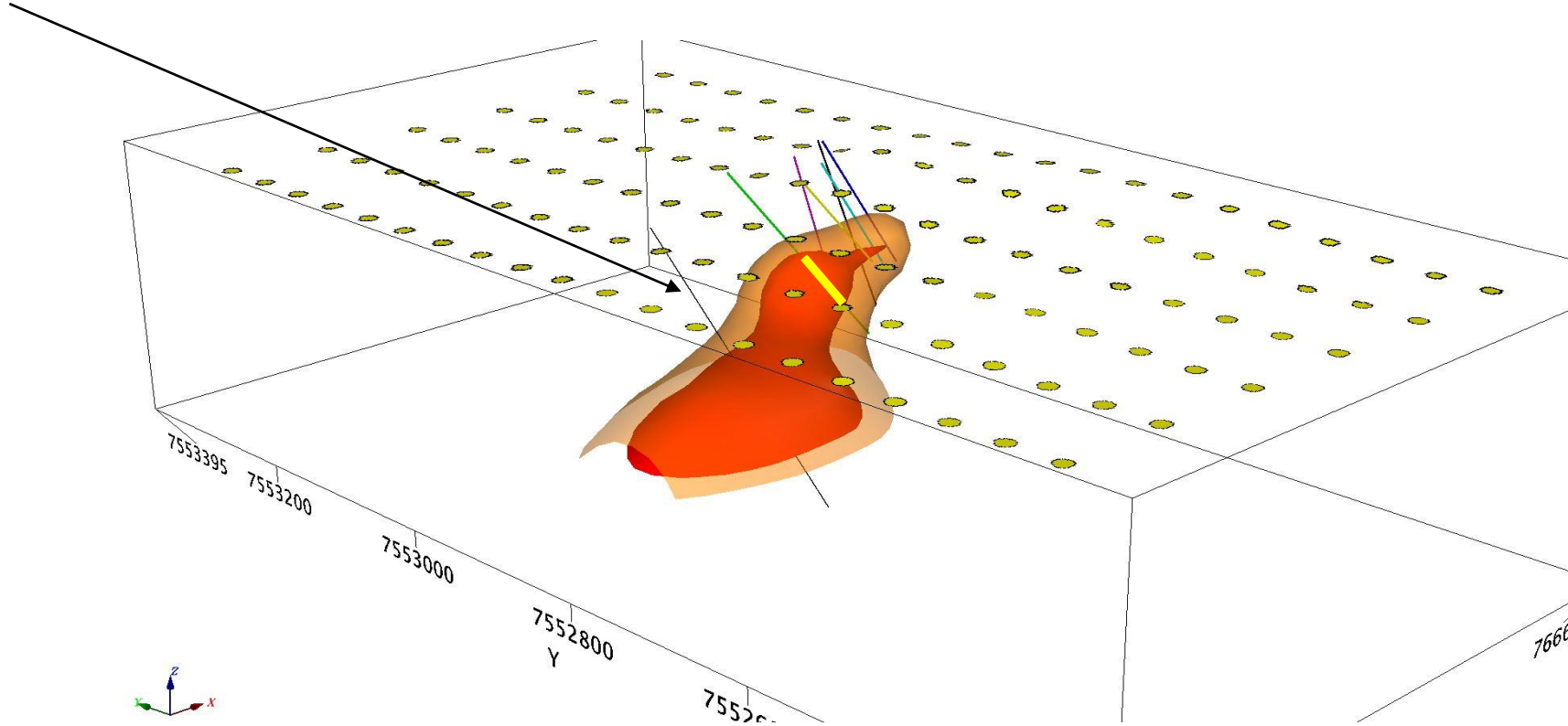




# Mount Hardy Copper-Zinc Project – Browns Prospect



- Review of Browns area identified additional drill targets 2Km along strike from the Hendrix discovery
- Historic drilling intersections from Browns include **13m @ 1.17% Cu & 1.9% Zn drilled in 2013 in hole 13MHRCD015**
- Mineralisation is associated with a well defined chargeability anomaly – requires down dip/down plunge drill testing
- Follow up drilling underway





## Rover: Gold-Copper

- Drill priority mag high” Au-Cu targets – time line set due to collaborative funding constraints – will commence in April

## Petermann Range: Gold & Base Metals

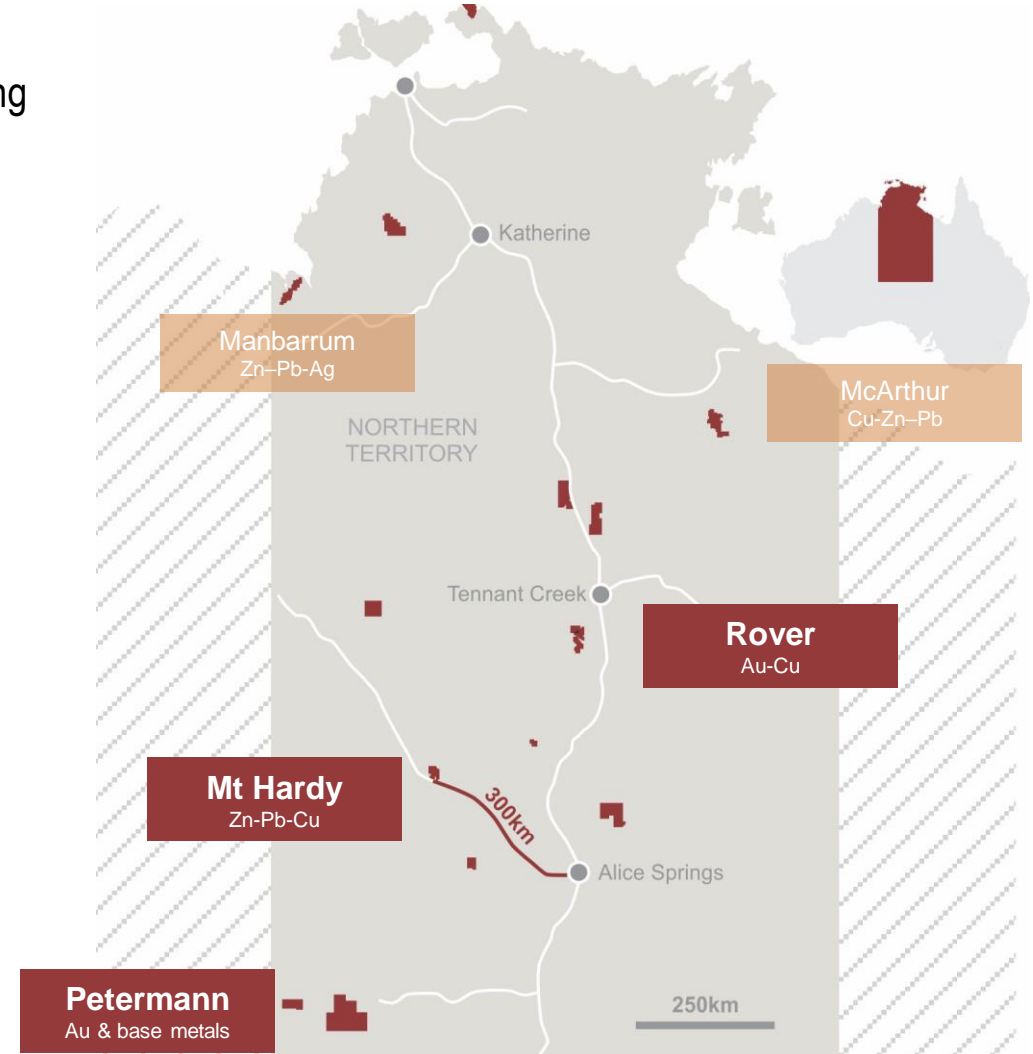
- Exploration Agreement currently being negotiated with the objective to be commencing on-ground exploration during Q3 2019
- Desk top work already commenced

## McArthur River: Copper-Lead-Zinc

- No on-ground work planned for 2019
- CSIRO collaboration and Adelaide University Honours Projects to review geophysics and refine stratigraphy

## Manbarrum Project

- Considering a number of strategies to move the project forward

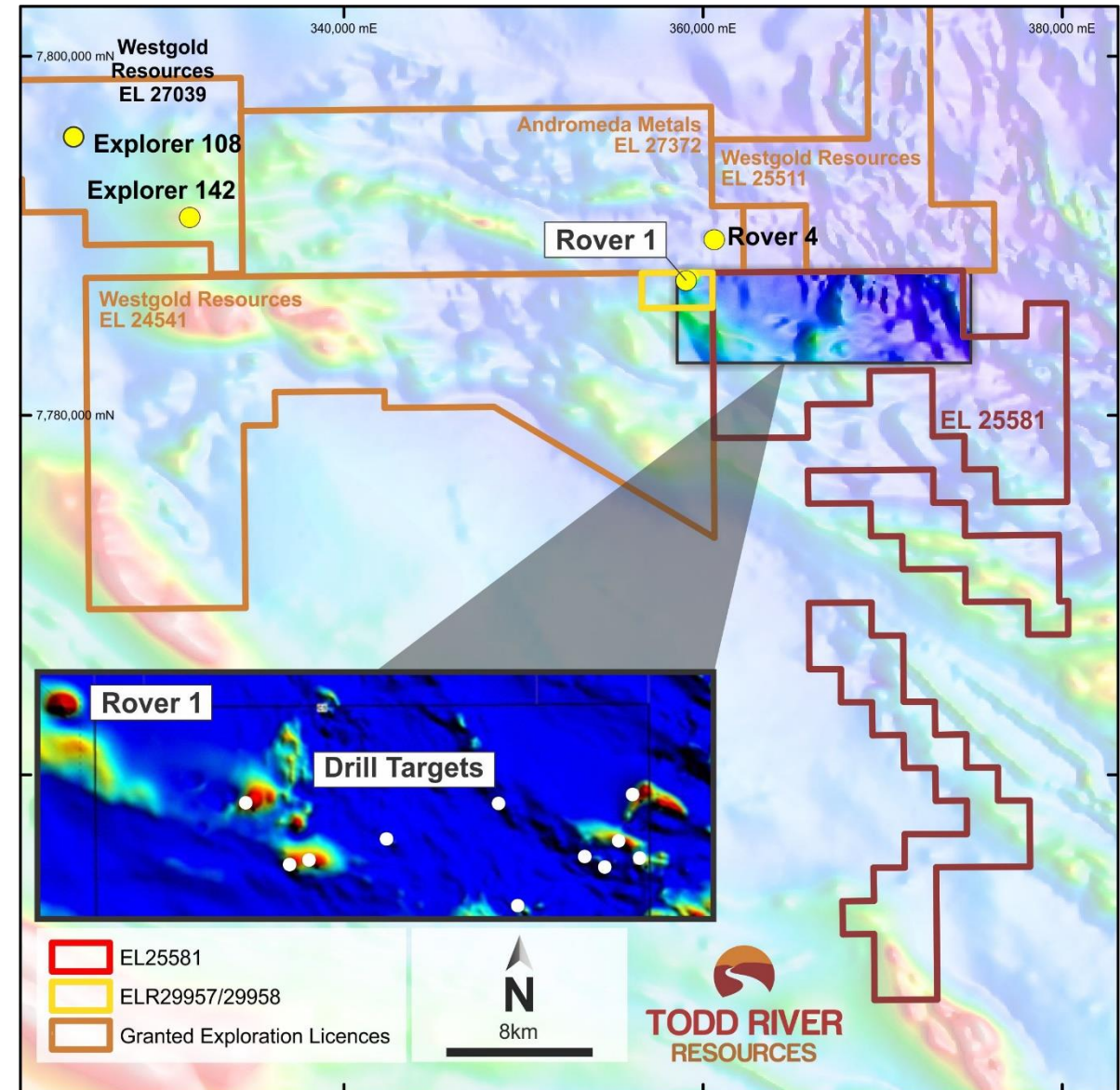




# Rover Gold-Copper Project



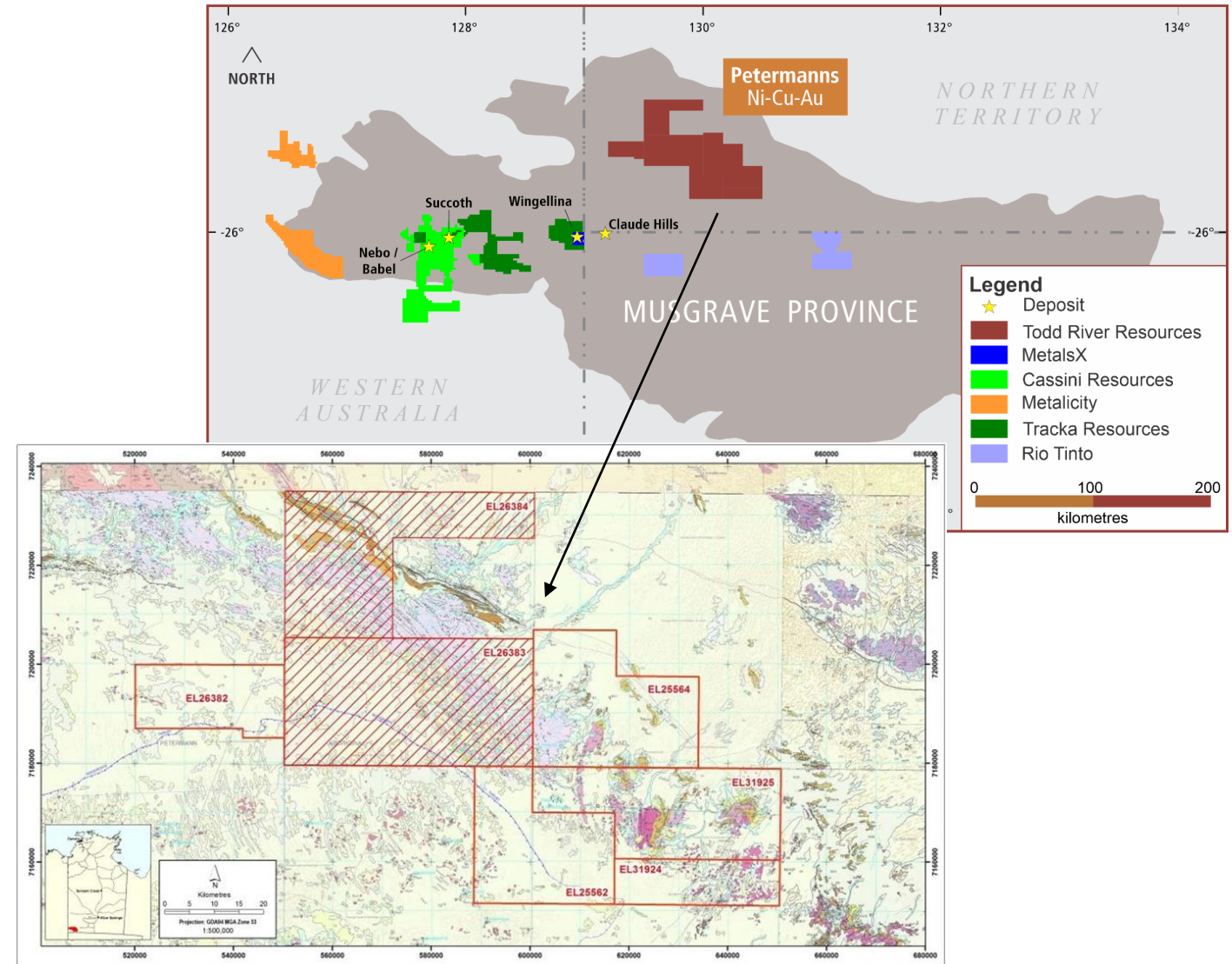
- Prospective for high grade Tennant Creek style Au-Cu-Bi mineralisation
- Within the historic 5.5Moz Tennant Creek goldfield
- Drilling completed – 2 priority holes (part funded under a NTGS collaborative funding agreement) – **WAITING ON ASSAYS**
- Immediately along strike from Westgold's 1.2M Au Equivalent Ounce Rover 1 deposit
- Simple, well understood exploration model – magnetite+gold so focus on mag highs
- Possible regional consolidation opportunity



# Petermann Range Project – Substantial Musgrave Land Holding



- 5,100Km<sup>2</sup> of tenure
- 2,800Km<sup>2</sup> proceeding to grant (with an additional 2,300Km<sup>2</sup> remaining in moratorium).
- **Significant land position** in the central Musgrave Province
- **No modern exploration for 40 years.**
- Exploration Agreement with the Traditional Owners currently being negotiated. Chairman Eddie Fry key for a strong Company-TO relationship
- First pass – mapping, broad surface sampling and airborne geophysics over priority areas – planned and ready to commence once land access approved – aiming for 2020 field season
- **Longer lead time but elephant country.**





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## COMPETENT PERSON'S STATEMENTS

- This information in this announcement that relates to exploration results is extracted from ASX Announcements titled:

“Prospective Rover Copper Gold Tenements Secured” lodged on 2 August 2017

“Assay Results Confirm High Grade Discovery at Mount Hardy” lodged on 20 June 2018

“High Grade Assays Confirm Base Metal Discovery at Mt Hardy” lodged on 2 August 2018,

“Geophysics points to additional mineralisation at Mt Hardy” lodged on 3 September 2018

“EM1 Mineralisation Further Extended at Mt Hardy” lodged on 29 November 2018

“Excellent Results from Metallurgical Testwork at Mt Hardy” lodged on 27 February 2019 and

“Diamond Drilling Update – Mt Hardy Project, NT” Lodged on 9 April 2019

“Drilling and Exploration Update – Mt Hardy Project, NT Lodged on 6 May 2019

which are available to view at [www.trrltd.com.au](http://www.trrltd.com.au) and [www.asx.com.au](http://www.asx.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. 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.

- The information in this announcement that relates to the estimation and reporting of the Sandy Creek Mineral Resource is extracted from the Independent Geologists Report included in the Prospectus lodged on 31 January 2017 and the Supplementary Prospectus lodged on 10 February 2017 which are available to view at [www.trrltd.com.au](http://www.trrltd.com.au) and [www.asx.com.au](http://www.asx.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the Independent Geologists Report included in the Prospectus and Supplementary Prospectus and that all material assumptions and technical parameters underpinning the Mineral Resource estimate in the Independent Geologists Report included in the Prospectus and Supplementary Prospectus continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the Independent Geologists Report included in the Prospectus and Supplementary Prospectus.