

## 33% Increase to Landholding in Emerging Rare Earths Province

- **33% increase in landholding** at Circle Valley (MEK 100%) following the grant of Exploration License E63/2214
- Area encapsulates the northern extension of the **clay hosted rare earth horizon where shallow, thick, high-grade intersections include:**
  - 12 metres at **715ppm TREO (40% Magnet REO)** from 8 metres including 4 metres at **1,269ppm TREO** (22CVAC030)
  - 36 metres at **672ppm TREO (32% Magnet REO)** from 12 metres including 16 metres at **1,098ppm TREO** (22CVAC031)
  - 5 metres at **1,040ppm TREO (30% Magnet REO)** from 36 metres including 4 metres at **1,177ppm TREO** (CVAC023)
  - 36 metres at **672ppm TREO (34% Magnet REO)** from 28 metres including 12 metres at **1,003ppm TREO** (CVAC017)
- The tenure also covers the **highly prospective Cascade and Bishops Hat Shear Zones – targets for Tropicana style gold mineralisation**
- Significant gold intersections at Circle Valley include:
  - **23m @ 5.09g/t Au** from 13m including **10m @ 9.35g/t Au** (22CVRC001)
  - **16m @ 3.06g/t Au** from 32m including **4m @ 10.80g/t Au** (22CVRC009)
  - **10m @ 4.72g/t Au** from 120m including **4m @ 10.20g/t Au** (22CVRC008) – hole ends in mineralisation

**Commenting on this, Managing Director Tim Davidson said:** “We have significantly expanded Circle Valley by securing the interpreted extension of the saprolite clay horizon to the north. This clay horizon is prospective for high-grade rare earths. Importantly, the new tenure also covers two regional shear zones on the margin of the Yilgarn, both highly prospective for Tropicana style gold mineralisation.

*In addition to expanding Circle Valley, work continues to advance at an uncompromising pace and we anticipate reporting 16,000m of rare earth assays over the coming two months. We also expect to receive gold assays by mid-June 2022 from Anomaly A where drilling tested strike extensions to the broad zones of high-grade gold mineralisation.*

*Finally, ANSTO has informed us that the rare earth metallurgical test work is progressing to schedule with results expected in late July 2022.”*



Meeka Gold Limited (ASX:MEK) (“**Meeka**” or “**the Company**”) is pleased to announce the Company has grown its landholding at Circle Valley by 33% with the granting of E63/2214. Circle Valley hosts shallow, high-grade rare earth mineralisation, up to 36m thick, within the saprolitic clays (Figure 1). In addition to rare earth prospectivity, the new tenure covers two major regional shear zones on the margin of the Yilgarn Craton, both highly prospective for Tropicana style gold mineralisation.

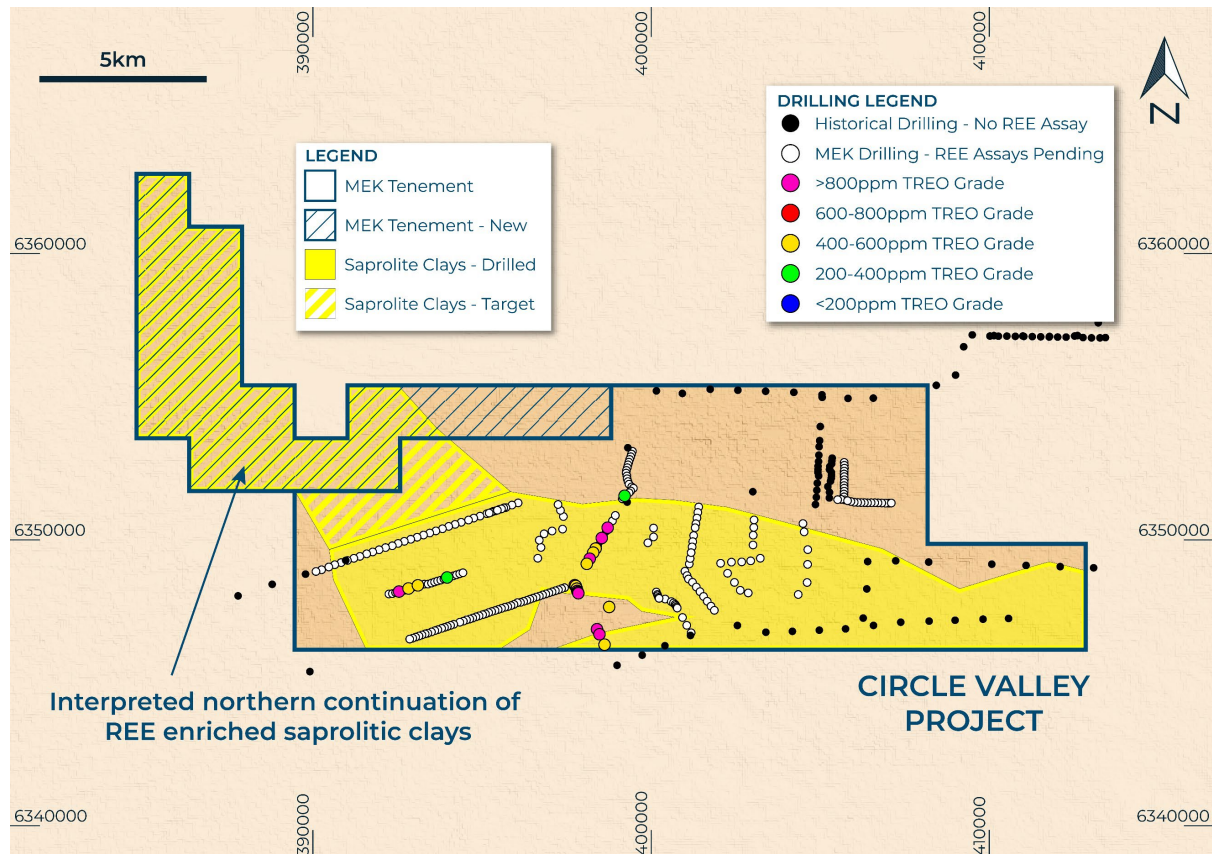


Figure 1: Meeka’s 100% owned Circle Valley Project (222km<sup>2</sup>) showing new tenure, existing drill holes and interpreted northern extension of the saprolite clay horizon. Note the significant number of drill holes with pending rare earth assays (approximately 16,000m of drilling).



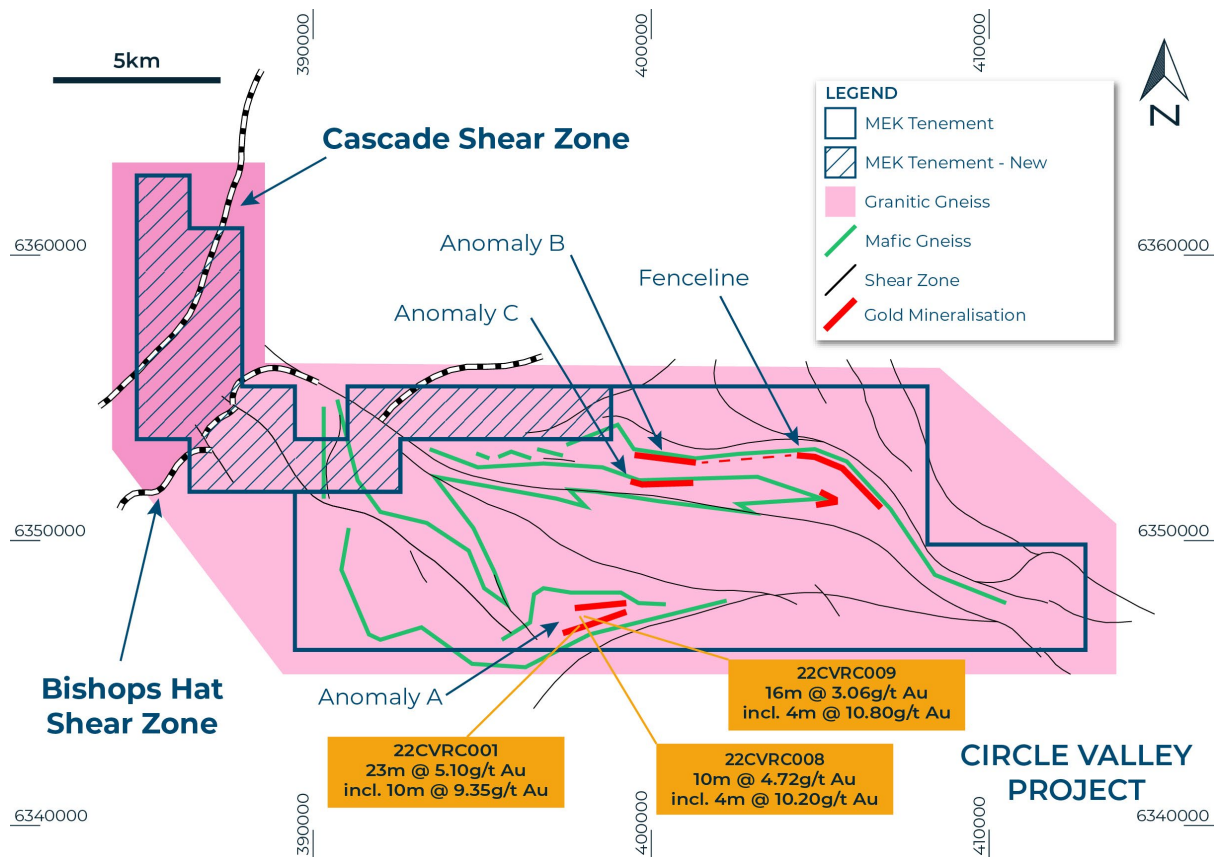


Figure 2: Location of new tenure covering the highly prospective Cascade and Bishops Hat Shear Zones – targets for Tropicana style gold mineralisation.

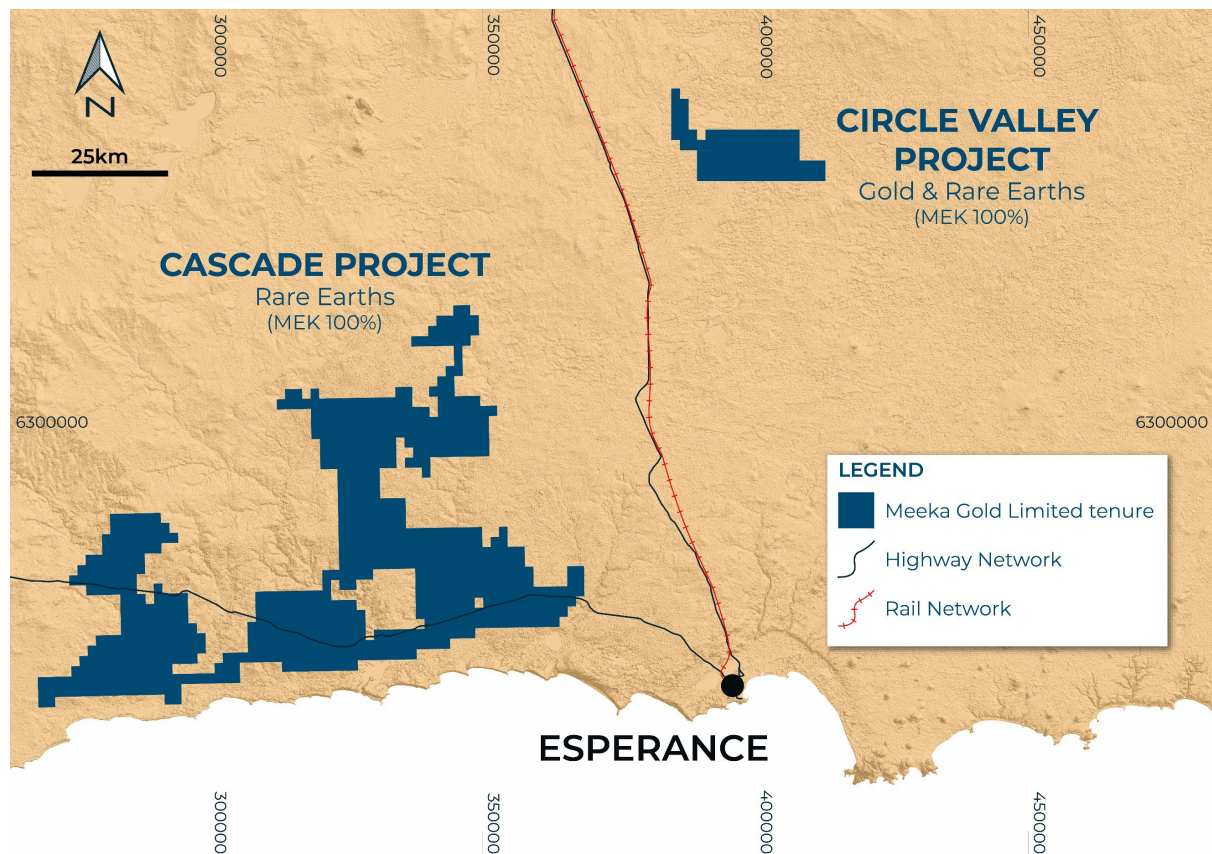


Figure 3: Cascade and Circle Valley Projects, both within the Albany-Fraser Province.

## Rare Earths at Circle Valley

Drilling completed by the Company at Circle Valley has intersected significant accumulations of regolith clay hosted rare earth mineralisation, including:

- **1m @ 1,521ppm TREO** within **4m @ 993ppm TREO** from 20m (CVAC035)
- **4m @ 1,269ppm TREO** within **12m @ 715ppm TREO** from 8m (22CVAC030)
- **16m @ 1,098ppm TREO** within **36m @ 672ppm TREO** from 12m (22CVAC031)
- **4m @ 1,177ppm TREO** within **5m @ 1,040ppm TREO** from 36m (CVAC023)
- **4m @ 1,040ppm TREO** within **10m @ 665ppm TREO** from 36m (CVAC036)
- **12m @ 1,003ppm TREO** within **36m @ 672ppm TREO** from 28m (CVAC017)
- **4m @ 937ppm TREO** within **12m @ 638ppm TREO** from 12m (22CVAC029)
- **4m @ 877ppm TREO** within **23m @ 514ppm TREO** from 48m (CVAC019)
- **8m @ 821ppm TREO** within **15m @ 606ppm TREO** from 28m (22CVAC046)
- **12m @ 803ppm TREO** within **23m @ 582ppm TREO** from 12m (22CVAC024)

This mineralised clay horizon is projected to extend north into the newly acquired tenure, providing an exciting target for future drilling activities.

## Gold at Circle Valley

Gold exploration along the western edge of the Albany-Fraser Mobile Belt, where Circle Valley is situated, has met with considerable success, highlighted by the discovery and development of the 7.1Moz Tropicana gold mine. Circle Valley is prospective for Tropicana style gold mineralisation occurring in reactivated thrust faults and shearing running parallel with the Albany-Fraser Mobile Belt. Evidence of the fertile geology at Circle Valley can be seen in the high-grade drill results reported from Anomaly A ([see ASX announcement dated 3 May 2022](#)), including:

- **23m @ 5.09g/t Au** from 13m including **10m @ 9.35g/t Au** and including **7m @ 2.91g/t Au** (22CVRC001)
- **24m @ 1.21g/t Au** from 24m (22CVRC010)
- **16m @ 3.06g/t Au** from 32m including **4m @ 10.80g/t Au** (22CVRC009)
- **10m @ 4.72g/t Au** from 120m including **4m @ 10.20g/t Au** (22CVRC008) – hole ends in mineralisation

Prospective host lithologies are the meta-granitic gneiss below shallow, younger Phanerozoic sedimentary cover. Both the Cascade and Bishops Hat Shear Zones, which traverse the newly acquired tenure at Circle Valley provide excellent targets for this this style of mineralisation.

## **FORTHCOMING ANNOUNCEMENTS**

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**June 2022:** Gold assays from Circle Valley RC drilling.

**June 2022:** Presentation to The Australian Gold Conference, 14 June 2022 at 2pm, Sydney.

**June 2022:** Assays from the remaining 16,000m of drilling for high-grade rare earth mineralisation at Circle Valley.

**June 2022:** Forward activity plan targeting the highest value zones of mineralisation at Cascade.

**July 2022:** Cascade rare earth metallurgical results from ANSTO.

**July 2022:** Gold assays from Murchison Gold Project drilling.

**July 2022:** Quarterly Activity Report.

This announcement has been authorised for release by the Company's Board of Directors.

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## **ABOUT MEEKA**

Meeka Gold Limited (ASX:MEK) is gold and rare earths company with a portfolio of high quality 100% owned projects across Western Australia.

### **Gold**

Meeka's flagship Murchison Gold Project has a combined 343km<sup>2</sup> landholding in the prolific Murchison Gold Fields and hosts a large high-grade 1.1Moz JORC Resource. The Company is actively growing these Resources while also progressing toward production. The release of the Murchison Gold Project Scoping Study in December 2021 outlined a robust Project that produces over 420koz of gold.

In addition, Meeka owns the Circle Valley Project in the Albany-Fraser Mobile Belt (also host to the Tropicana gold mine – 3Moz past production). Gold mineralisation has been identified in four separate locations at Circle Valley and presents an exciting growth opportunity, which is being aggressively pursued.

### **Rare Earths**

Meeka controls the Cascade Rare Earths Project (2,068km<sup>2</sup>) in a region that is rapidly emerging as a highly prospective clay rare earths province. Importantly, the results to date contain high levels of permanent magnet metals being Neodymium-Praseodymium oxides. These metals are geopolitically critical and Meeka intend to accelerate our understanding of Cascade by commencing initial metallurgical work. Furthermore, drilling will be ongoing.



## Global Mineral Resource Summary

Project	Measured			Indicated			Inferred			Total		
	Tonnes ('000t)	Grade (g/t)	Ounces ('000oz)	Tonnes ('000t)	Grade (g/t)	Ounces ('000oz)	Tonnes ('000t)	Grade (g/t)	Ounces ('000oz)	Tonnes ('000t)	Grade (g/t)	Ounces ('000oz)
Andy Well	150	11.4	55	1,050	9.3	315	650	6.5	135	1,800	8.6	505
Turnberry				6,800	1.6	355	4,500	1.8	255	11,300	1.7	610
<b>TOTAL</b>	<b>150</b>	<b>11.4</b>	<b>55</b>	<b>7,850</b>	<b>2.7</b>	<b>670</b>	<b>5,150</b>	<b>2.4</b>	<b>390</b>	<b>13,100</b>	<b>2.6</b>	<b>1,115</b>

### Notes:

1. Mineral Resources previously reported to the ASX on 18th May 2021 in announcement titled "Murchison Gold Mineral Resource Grows 44% to +1.1 Million Ounces". The Company 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 estimates continue to apply and have not materially changed.
2. Mineral Resources are produced in accordance with the 2012 Edition of the Australian Code for Reporting of Mineral Resources and Ore Reserves (JORC 2012).
3. Andy Well Mineral Resource is reported using 0.1g/t cut-off grade.
4. Turnberry Open Pit Mineral Resource is reported within a A\$2,400/oz pit shell and above 0.5g/t cut-off grade.
5. Turnberry Underground Mineral Resource is reported outside a A\$2,400/oz pit shell and above 1.5g/t cut-off grade.



## **COMPETENT PERSON'S STATEMENT**

The information that relates to Exploration Results as those terms are defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserve", is based on information reviewed by Mr Duncan Franey, a Competent Person who is a member of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Franey is a full-time employee of the Company. Mr Franey 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 Franey consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information that relates to Mineral Resources was first reported by the Company in its announcement to the ASX on 18 May 2021. The Company 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 estimates continue to apply and have not materially changed.

The information that relates to Scoping Study results is based on information compiled by Mr Tim Davidson, a Competent Person who is a Member of the Australian Institute of Mining and Metallurgy. Mr Davidson is a full-time employee of the company. Mr Davidson is eligible to participate in short and long-term incentive plans of and holds shares and performance rights in the Company as previously disclosed. Mr Davidson has sufficient experience in the study, development and operation of gold projects and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

## **FORWARD LOOKING STATEMENTS**

Certain statements in this report relate to the future, including forward looking statements relating to the Company's financial position, strategy and expected operating results. These forward-looking statements involve known and unknown risks, uncertainties, assumptions and other important factors that could cause the actual results, performance or achievements of the Company to be materially different from future results, performance or achievements expressed or implied by such statements. Actual events or results may differ materially from the events or results expressed or implied in any forward-looking statement and deviations are both normal and to be expected. Other than required by law, neither the Company, their officers nor any other person gives any representation, assurance or guarantee that the occurrence of the events expressed or implied in any forward-looking statements will actually occur. You are cautioned not to place undue reliance on those statements.