

Rare Earth Metallurgical Work Underway

- **Australian Nuclear Science and Technology Organisation (“ANSTO”) has commenced rare earth metallurgical test work for the Company’s 100% owned rare earth projects**
- ANSTO has world-leading expertise in the processing of critical and strategic metals such as rare earths and has provided the mining and minerals processing industries with consultancy, process development and research services for more than 40 years

Commenting on this, CEO Tim Davidson said: *“The rare earth assays received from our 100% owned Cascade and Circle Valley Projects show shallow, broad, high-grade mineralisation across a very large area. We are now expediting the metallurgical test work to understand the process for producing a commercial product.*

ANSTO is recognised globally for their expertise in rare earth processing, and we look forward to working with them to determine the optimum method for metal recovery. Importantly, the mineralisation contains a high level of permanent magnet metals, being Neodymium-Praseodymium oxides. This will ensure high demand for a commercial product potentially resulting from these projects.”

Meeka Gold Limited (ASX:MEK) (“**Meeka**” or “**the Company**”) is pleased to report the rare earth metallurgical test program has commenced for its 100% owned rare earth projects. Metallurgical samples were received by ANSTO in New South Wales in early May and preparation and testing is now underway. ANSTO has a full suite of mineralogical, chemical and hydrometallurgical facilities from laboratory through to pilot scale, which will investigate optimisation of the metallurgical process and development of a process flow sheet for the Company’s rare earth projects. Results are expected in late July 2022.

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

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ABOUT MEEKA

Meeka (ASX:MEK) is a junior 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 343km² landholding in the prolific Murchison Gold Fields and hosts a large high-grade 1.1Moz Mineral 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 (2,068km²) 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 we 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 |
| TOTAL | 150 | 11.4 | 55 | 7,850 | 2.7 | 670 | 5,150 | 2.4 | 390 | 13,100 | 2.6 | 1,115 |

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.

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.