

## Update of the Halleck Creek Rare Earths Project: ARR Announces Resource Drilling Exploration Plan

American Rare Earths (**ASX: ARR | OTCQB: ARRNF | FSE:1BHA**) (**ARR or the Company**) is pleased to provide an update on the Halleck Creek Rare Earths Project and announce the exploration plans for resource drilling. The company has applied for updated drilling permit locations for up to 31 drill holes at Halleck Creek, Wyoming, and plans to drill approximately 2,400 metres in total.

The objectives of the resource drilling program are as follows:

1. **Definition of Measured and Indicated Resources:** The drilling will focus on identifying the highest-grade areas to define a significant volume of measured and indicated resources. This information is crucial for resource reporting requirements, particularly as ARR migrates its corporate offices to the US and prepares to file reports using the US Securities and Exchange Commission (SEC) S-K 1300 reporting standards.
2. **Detailed Metallurgical Testing:** Core material obtained from the drilling will be used for additional detailed metallurgical testing. This will enhance our understanding of the mineralisation and contribute to the development of efficient extraction processes.
3. **Geotechnical Testing:** Core samples will also be utilised for geotechnical testing, enabling a comprehensive assessment of the rock and soil properties. This data is essential for designing safe and efficient mining operations.
4. **Baseline Hydrological Sampling and Monitoring:** Preliminary baseline hydrological sampling and monitoring will be conducted to establish a comprehensive understanding of the project's impact on water resources. This information will guide environmentally responsible project development.
5. **Expansion into Surrounding Claims:** Currently less than 25% of the Halleck Creek District has been drilled and the deposit remains open. The drill program includes initial drilling in these areas to assess the presence of rare earth mineralisation and verify the higher-grade material observed in the geological model and surface geochemical samples.
6. **Feedstock Material for Research and Development:** The drilling will provide additional feedstock material for Research and Development Projects, supporting ongoing advancements in rare earth technologies.

ARR plans to commence drilling in the third quarter of 2023, with the program expected to continue into the fourth quarter. The timing will depend on the issuance of exploration permits from the Wyoming Department of Environmental Quality – Land Quality Division.

Meanwhile, ARR's geologists are actively working to expand the regional geological knowledge and increase resource classification at Halleck Creek. Mapping and sampling activities are underway in the newly claimed County Line prospect area, followed by further exploration of claim holdings west of the current resource areas.

Mr. Chris Gibbs, CEO and Managing Director of ARR, expressed his enthusiasm for the project's potential: "The outstanding results we achieved with the JORC Resource of 1.43 billion tonnes<sup>1</sup> at Halleck Creek provides the foundation to build what we think will be one of the most important rare earths projects in the United States, or even the world. The 1.05 million tonnes<sup>1</sup> of NdPr at Halleck Creek can unlock current boundaries of the electrification of the US economy. We at ARR are rolling up our sleeves to collect, evaluate, and present the environmental, geological, mining, metallurgical, marketing, and financial data needed to develop Halleck Creek while being stalwart stewards of the environment and trustworthy corporate citizens with the people of Wyoming."

This update marks a significant step forward for American Rare Earths as it progresses toward unlocking the vast potential of the Halleck Creek Rare Earths Project. The company remains committed to responsible development and looks forward to providing further updates as the drilling program progresses.

This press release has been authorised for release to the market by the Board of American Rare Earths Limited.

Mr. Chris Gibbs  
CEO & Managing Director

Competent Persons Statement:

This work was reviewed and approved for release by Mr. Dwight Kinnes (Society of Mining Engineers #4063295RM) who is employed by American Rare Earths and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 JORC Code. Mr. Kinnes consents to the inclusion in the report of the matters based upon the information in the form and context in which it appears.

About American Rare Earths Limited

American Rare Earths Limited (ASX: ARR, OTCQB: ARRNF, FSE: 1BHA) is a leading rare earth elements exploration and development company focused on its flagship Halleck Creek project in Wyoming, USA. With extensive mineral resources and a commitment to sustainable and responsible practices, ARR aims to become a prominent player in the global rare earths market. For more information, visit [www.americanrareearths.com.au](http://www.americanrareearths.com.au)

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<sup>1</sup> See ASX [Announcement March 30 2023](#)