

DRILLING UNDERWAY AT BARKLY FOR 10,000 m RESOURCE EXPANSION CAMPAIGN

Barkly Rare Earths Limited (**ASX:BAK**) ('Barkly' or the 'Company') is underway at its 10,000 m Phase 1 resource drilling programme at the flagship Barkly Project. The programme targets shallow mineralisation near the current **40 Mt @ 2,100 ppm TREO Inferred Mineral Resource¹** where mineralisation remains open in all directions.

Highlights

- **Drilling underway** at Barkly's flagship rare earths project, with the 10,000 m Phase 1 programme targeting resource growth
- **Programme targets shallow mineralisation** around the existing 40 Mt @ 2,100 ppm TREO Inferred Mineral Resource
- **Initial samples scheduled for laboratory dispatch on Thursday**, with first assay results to be reported as they become available



Figure 1: The first hole of the 10,000 m Phase 1 programme being drilled at the Barkly Project.

"It is great to have the drill rig turning at Barkly and to see the Phase 1 programme now underway. This campaign is an important step toward our goal of expanding the existing resource, with drilling focussed on shallow targets around known mineralisation where we see good potential to add scale. It is highly encouraging that early progress is in line with expectations, and we are moving quickly to log, assess, and dispatch the first samples for laboratory analysis."

The team is determined to build a rare earths company of global significance and this drill campaign underpins that objective. This will be a robust period of news flow now the drill bit is spinning, and I look forward to updating shareholders as we progress."

Craig Wright — Managing Director

BARKLY DRILLING PROGRAMME UPDATE

The first drilling at the Barkly Project in 2026 marks the start of the 10,000 m Phase 1 resource drilling programme. The early stage of the programme is focussed on establishing sample quality, optimising drilling efficiency, and positioning the team for a steady ramp-up across the campaign.

Drilling is being conducted by Colling Exploration, an Indigenous-owned company based in Pine Creek, Northern Territory. Geological logging, sampling and quality management are being undertaken by global mineral resource development specialists, RSC (Figure 2).



Figure 2: (left) Barkly's Managing Director, Craig Wright, and GM—Exploration, Richard Hall, discuss the first drillhole setup; (right) Richard Hall discusses sampling with RSC technical personnel.

The first hole drilled was one of several 60-m-deep holes near the southwest optimised pit shell that delineates the Inferred Mineral Resource (illustrated in red in Figure 3 below). These deeper holes will provide a stronger geological framework for understanding basin stratigraphy and assessing mineralisation continuity outside the existing resource.

Drilling for the remainder of this week and into next week is focussed on shorter holes in the area around the existing resource, illustrated in orange in Figure 3 below.

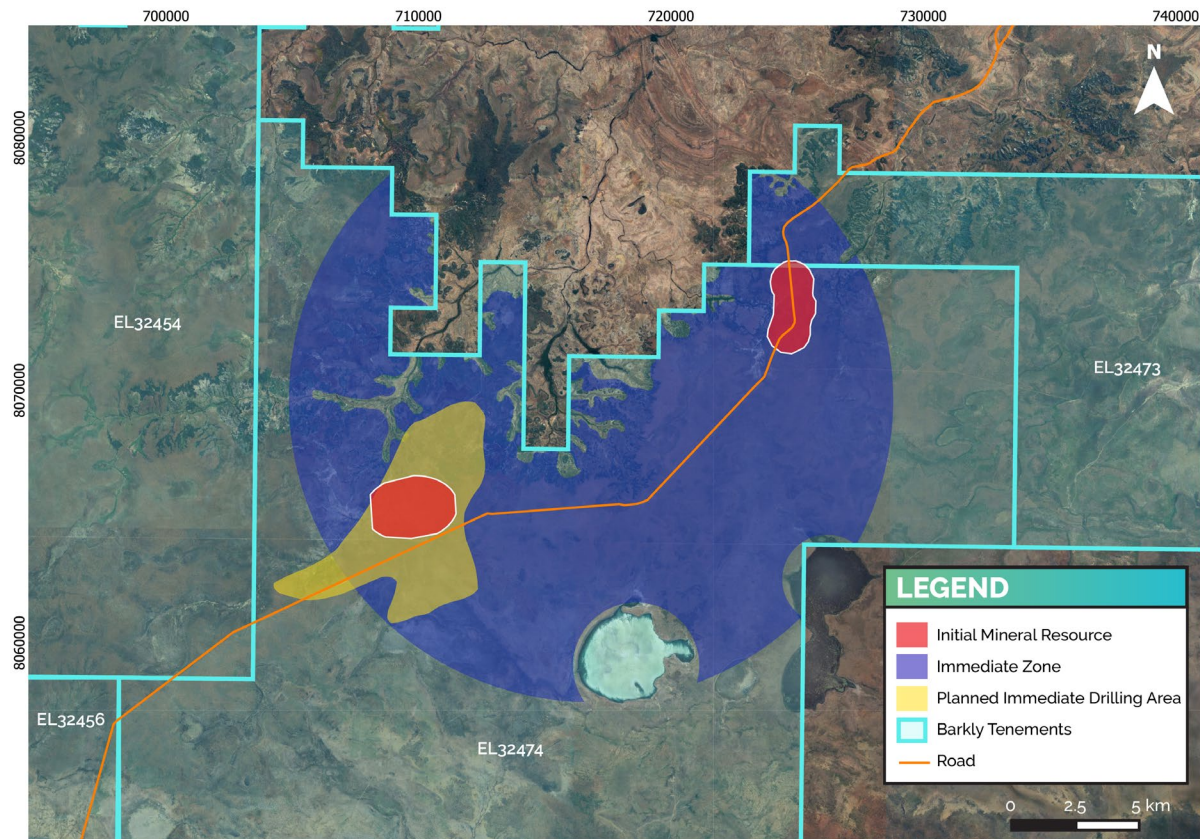


Figure 3: Map of the area where drilling is being undertaken this week (orange) relative to the Immediate Zone (purple), and the existing Inferred Mineral Resource (red).

Samples are geologically logged at the rig, where two portable XRF (pXRF) instruments are used as a qualitative field screening tool to assist geological logging and field planning. Laboratory assays will determine the rare earth grades, and the first batch of samples is scheduled for dispatch to the laboratory this week for assay.

The drilling programme targets expansion of the existing 40 Mt Inferred Mineral Resource, which grades 2,100 ppm Total Rare Earth Oxide (TREO) for 82,000 tonnes of contained TREO. The resource is reported in accordance with the JORC Code (2012) above a 430-ppm NdPr cut-off grade.

The majority of the programme's ~400 shallow holes, averaging ~25 m deep, are planned within the Immediate Zone, illustrated in purple in Figure 3, which coincides with the Company's previously announced Exploration Target (refer to Previous Disclosure Section).

EXPLORATION NEXT STEPS

- Ongoing Exploration Results from 10,000 m of drilling (Q3 & Q4 CY2026)
- Rare earths concentration and extraction testing (ongoing)
- Mineral Resource update (Q4 CY2026, subject to drilling and lab assay progress)
- Geo-metallurgical test work and modelling (Q3 & Q4 CY2026)
- Buntine exploration results (Q3 CY2026)
- Follow-up exploration at Buntine (Q4 CY2026)

This announcement has been authorised for release by the Board of Barkly Rare Earths Limited.

ENDS

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About Barkly Rare Earths Limited:

Barkly Rare Earths Limited (**ASX:BAK**) is an Australian mineral exploration company focussed on the discovery and development of economic mineral deposits, driven by technical expertise and disciplined execution. Its strategy is to discover, delineate, and develop deposits capable of supporting long-term production to meet growing global demand.

The Company's flagship Barkly Project in Australia's Northern Territory spans 5,030 km² and is held 100% by Barkly Rare Earths. It has an initial Inferred Mineral Resource of 40 Mt @ 710 ppm Magnet Rare Earth Oxide (MREO), within 2,100 ppm Total Rare Earth Oxide (TREO) (reported above a 430 ppm NdPr cut-off grade). The Mineral Resource includes a high terbium component, with low uranium and thorium. Initial conventional leaching tests achieved 74% MREO extraction, with initial beneficiation test work returning a mineral concentrate of 29,000 ppm TREO. The consistently high magnet rare-earth grade and continuity of mineralisation presents an opportunity to build a project of global significance.

At the Company's Buntine Project in the Northern Territory, the Fraynes Formation is chronostratigraphically equivalent to the Barney Creek Formation that hosts the McArthur River Pb-Zn deposit, making the Fraynes Formation a target for greenfields base metal exploration. Polymetallic mineralisation is exposed at the Buntine Project along a nine-kilometre (9 km) strike length of late-Paleoproterozoic sedimentary rocks and overlying Cenozoic sediments, with three different anomalous zones of Pb-Co, U-W-Pb-Ni, and Zn-Pb-Co-Cu along the mineralised corridor. Rock chip samples grade up to 667 ppm Zn, 1% Pb, 1,760 ppm Co, 316 ppm Cu, 10% Mn, 7,100 ppm Ni, and 239 ppm Cr.

For more information, please visit: barklyrareearths.com.

Forward Looking Statements

This announcement includes various ‘forward-looking statements’ with respect to, among other things, goals, plans, and strategies. Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties and other factors beyond the control of the Company that may cause the actual results, performance and outcomes to be materially different from those expressed or implied by such statements. Forward-looking statements are provided as a general guide only and should not be relied on as an indication or guarantee of future performance. Given these uncertainties, recipients are cautioned not to place undue reliance on any forward-looking statement. Subject to any continuing obligations under applicable law, the Company disclaims any obligation or undertaking to disseminate any updates or revisions to any forward-looking statements in this announcement to reflect any change in expectations in relation to any forward-looking statements or any change in events, conditions or circumstances on which any such statement is based.

Previous Disclosure

The information in this announcement that relates to Exploration Targets, Exploration Results and Mineral Resources is extracted from the previous report titled Barkly and Buntine Projects, Northern Territory, Australia, Independent Technical Report, included as Annexure A to the Company’s Prospectus dated 1 December 2025. The previous report was prepared in accordance with the 2012 Edition of the JORC Code, and it is available to view at the Company’s website www.barklyrareearths.com. The Company confirms that it is not aware of any new information or data, as at the date of this announcement, that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person’s (Paul Teniere) findings are presented have not been materially modified from the original market announcement.

Glossary

TREO (Total Rare Earth Oxide)

$\text{La}_2\text{O}_3 + \text{CeO}_2 + \text{Pr}_6\text{O}_{11} + \text{Nd}_2\text{O}_3 + \text{Sm}_2\text{O}_3 + \text{Eu}_2\text{O}_3 + \text{Gd}_2\text{O}_3 + \text{Tb}_4\text{O}_7 + \text{Dy}_2\text{O}_3 + \text{Ho}_2\text{O}_3 + \text{Er}_2\text{O}_3 + \text{Tm}_2\text{O}_3 + \text{Yb}_2\text{O}_3 + \text{Lu}_2\text{O}_3 + \text{Y}_2\text{O}_3$

NdPr (Neodymium-Praseodymium mixed oxide)

$\text{Nd}_2\text{O}_3 + \text{Pr}_6\text{O}_{11}$

MREO (Magnet Rare Earth Oxide)

$\text{Nd}_2\text{O}_3 + \text{Pr}_6\text{O}_{11} + \text{Tb}_4\text{O}_7 + \text{Dy}_2\text{O}_3$

MREO Ratio (%)

$\text{MREO}/\text{TREO} \times 100$

ⁱ Refer to Previous Disclosure section.