

## Stage 2 drilling underway at the Nerramyne Project

*Reverse Circulation (RC) drilling to test previously identified targets at Trix and Chandler and aircore drilling to explore untested intrusions*

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### Key Points:

- Reverse Circulation (RC) drilling will test both the bedrock conductor recently confirmed in a Fixed Loop TEM (FLTEM) survey at the Trix Prospect in the north of the Project as well as the strong PGE anomaly from initial drilling at the Chandler Prospect located in the south of the Project;
- Aircore drilling will be completed across a number of previously untested mafic and ultramafic intrusions throughout the project taking advantage of cleared fence lines and tracks within the tenement;
- Several land access agreements have recently been completed with landholders at the Pingrup Ni-Cu-PGE Project in the south west Yilgarn with further discussions ongoing in other areas.

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Todd River Resources Limited (**ASX: TRT**) (**Todd River** or the **Company**) is pleased to announce that following the confirmation of a robust bedrock conductor at the Trix Project and strongly anomalous PGE assays from drilling at the Chandler Prospect, a two phase drilling program has commenced at its 100% owned **Nerramyne Project** located approximately 130 kilometres north east of Geraldton in the Murchison region of Western Australia (Figure 1). As well as RC drilling at Trix and Chandler, a more widespread aircore program will be completed along existing station tracks and fence lines in order to test a number of interpreted mafic and ultramafic intrusions across the tenement. It is expected the program will run for approximately 2-3 weeks with results expected around a month after completion.

Todd River Resources' Managing Director Will Dix said: *"We're excited to be following up on our exciting results from the initial work programs at Nerramyne as well as having the opportunity to test a number of new targets. Being able to continue testing new areas will give us a pipeline of targets for future drilling and let us focus on the key intrusions alongside the prospects at Trix and Chandler. The combination of the right rocks and some very encouraging geochemistry and geophysics ranks Trix and Chandler are high on our priority list and we expect the drilling to be completed in late October. We look forward to sharing the outcomes of this work with our shareholders once the assay results are returned".*



**Figure 1 – Todd River Resources Project Location Plan**

### **Nerramyne Cu-PGE Project**

A Reverse Circulation (RC) and aircore drilling program has commenced over both known targets and previously unexplored mafic and ultramafic intrusions across the project area (Figure 2).

Similarly to the initial drilling program at Nerramyne, this drilling is also subject to funding assistance from the state government of Western Australia through the successful application in Round 24 of the Exploration Incentive Scheme and we thank the Western Australian Government for this funding assistance.

As previously reported in ASX release lodged on 5 September 2022, FLTEM surveying at the Trix Prospect confirmed a robust bedrock conductor. The conductor was recorded on two survey lines which both show a well defined profile with a response on all components that is consistent with a bedrock conductor source. Decays are clearly exponential and have a 25-50ms exponential time-constant.

The modelled plate position is robust and has a size of ~100 x 100 metres and a conductance of 2700- 3300 Siemens.



Initial drilling at Trix which was completed during the August campaign, was carried out to better understand the geology in the area. Subsequently, interpretation of the FLTEM data has shown that this drilling was subparallel to the modelled orientation of the plate and missed the conductor. Holes have been designed to target the centre of the modelled conductive plate.

At the Chandler Prospect an initial fence of three holes intersected a package of layered mafic intrusive rocks comprising gabbro and dolerite with occasional pyroxenitic units and a medium grained granite to the west. Assay results from this drilling show significantly elevated Platinum and Palladium (PGE's) averaging 121ppb over 18m in hole NERC0002 (3m composite samples) associated with a gabbro-dolerite unit close to the granite contact. There is no drilling coverage for 400m to the south and no drilling at all to the north. Figures 4 and 5 show the plan and sectional view of the Chandler drilling highlighting the zone of PGE anomalism. Drilling is planned to follow up this anomalous intersection to the north and south.

In addition, single metre re-sampling and petrography of the samples has been completed with results from this work pending.

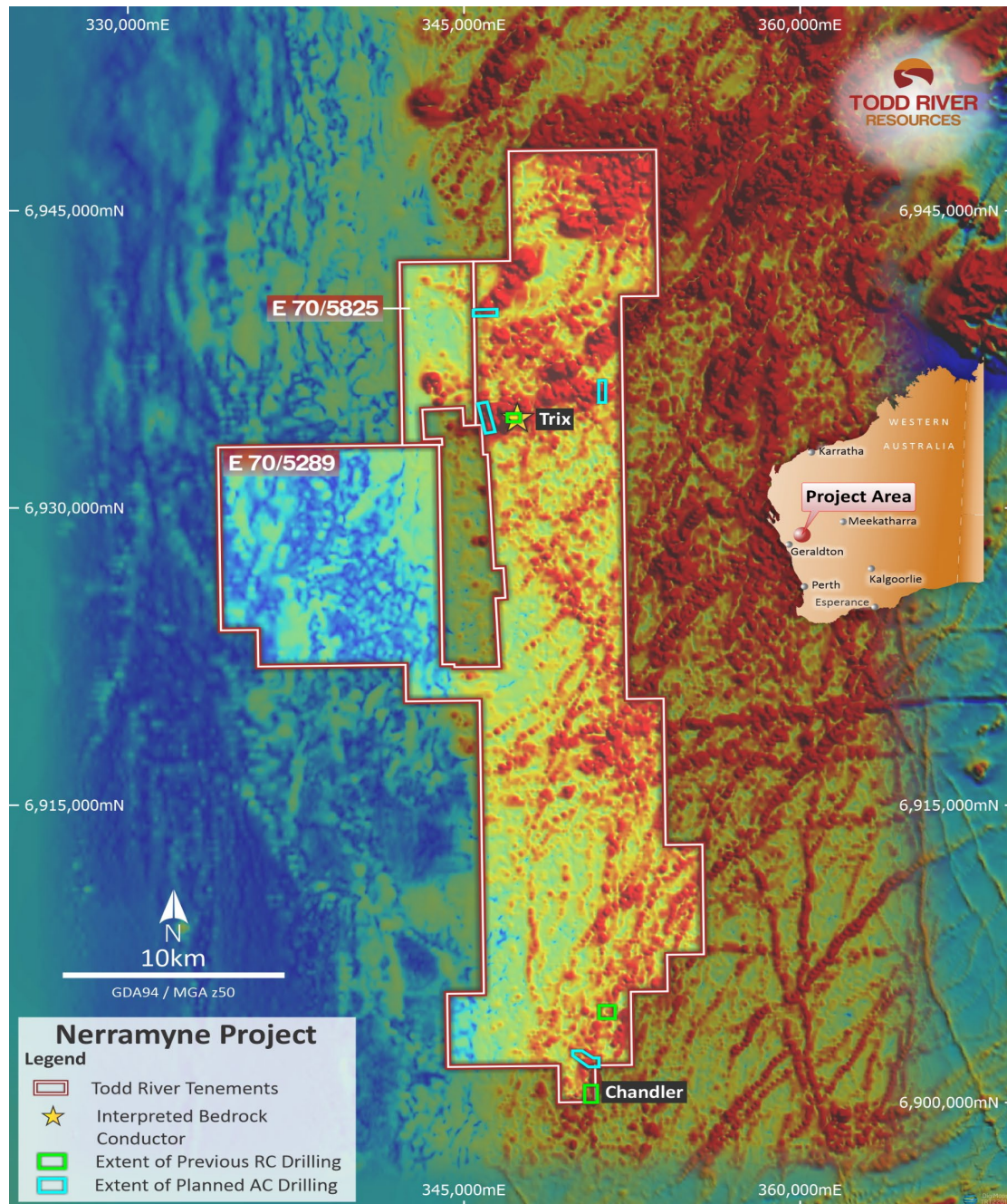
Aircore drilling will focus on several intrusions across the project where geochemistry is ineffective due to transported cover. In total 200-300 holes are planned across 6 traverses. Figure 2 shows the locations of the traverses to be tested.

### **Background**

The Nerramyne Project covers an 8-10 kilometre wide, 45 kilometre long position along the margin of the Yilgarn Craton where it is juxtaposed against the Narryer terrane. The Yilgarn and Narryer rocks are mapped predominantly as gneisses, with mafic rocks (hornblende) in the south. The craton-bounding north-south Darling Fault transects the project area. A portion of the project area is covered by wind-blown sands and alluvial sediments which potentially mask any surface expression of mineralisation and render simple soil geochemistry unreliable.

Limited previous exploration has concentrated entirely in the northern portion of the tenement, where a total of 5 soil sampling lines and 11 lag sampling lines were completed. More than half the soil samples collected were reported as being transported sand, suggesting that this shallow soil sampling completed was ineffective.

Regional regolith surface sampling by the Geological Survey of Western Australia (GSWA) on a 4 kilometre x 4 kilometre grid over the area has identified a broad low level copper-platinum-palladium anomaly that stretches over a 40 kilometre x 6 kilometre area (*See ASX Announcement 13 July 2021*). This style of regional sampling that has been widely utilised across the Nerramyne Project was also used extensively in the Fraser Range and identified an anomaly that led, in part, to the target generation and discovery of the Nova-Bollinger Ni-Cu orebodies by Sirius Resources in 2012.



**Figure 2 – Nerramyne Project showing the Location of the main interpreted bedrock conductors from the SkyTEM Survey, areas for follow up FLTEM and RC drill lines over Regional Magnetics**

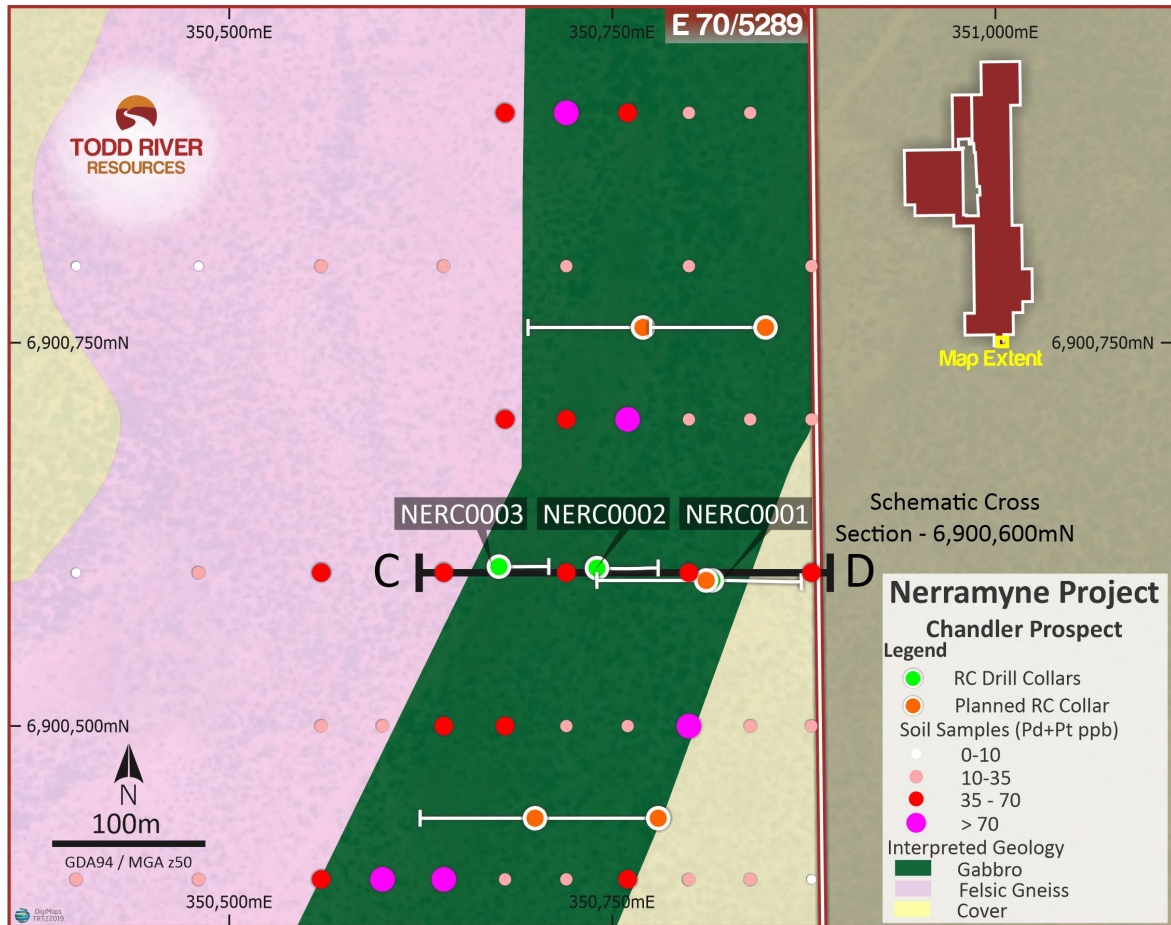


Figure 3 – showing existing and proposed drill hole locations over soil geochemistry at Chandler

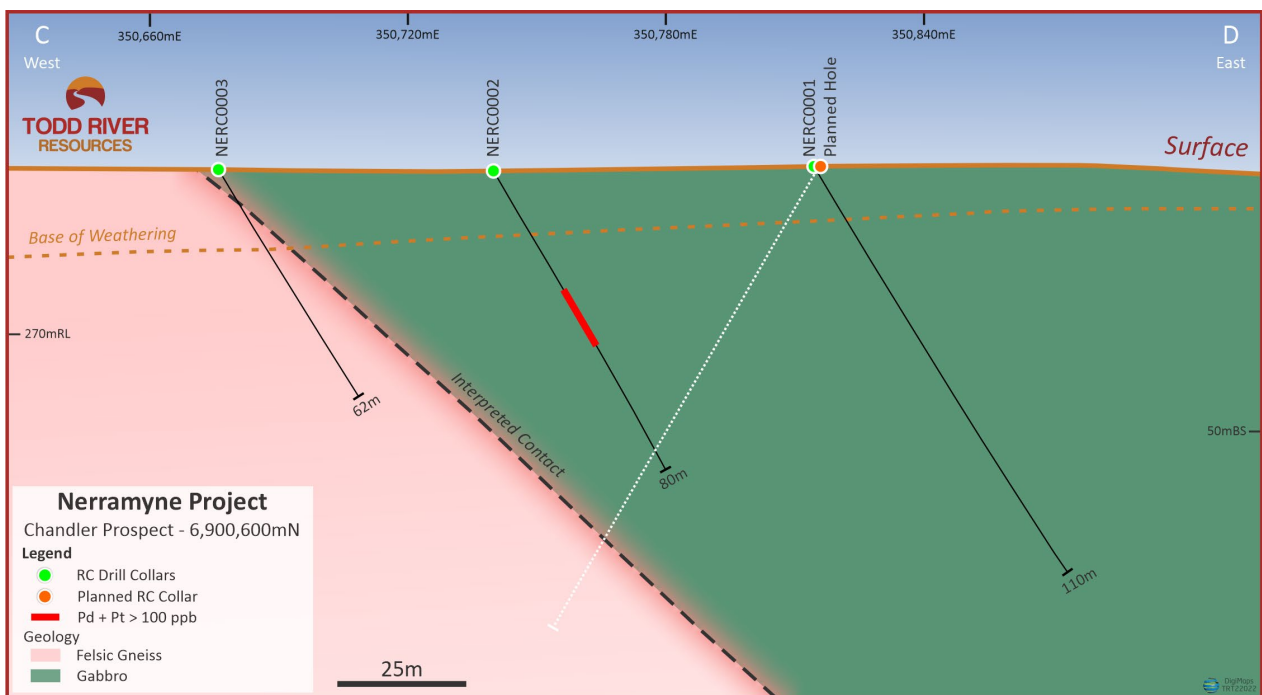


Figure 4 – drill section 6900600mN through Chandler showing anomalous zone of PGE's in hole NERC0002



## **Release authorised by the Board of Todd River Resources**

**Enquiries:** Will Dix + 61 (0) 8 6166 0255

### **About Todd River Resources**

Todd River Resources (ASX: TRT) is an Australian-based resources company that has base and precious metal projects in Western Australia and the Northern Territory. The Company has a base metal resource at its Mt Hardy Project and several exciting Ni-Cu-PGE and base metal projects in Western Australia including Berkshire Valley in the south west Yilgarn.

With a strong management team and tight capital structure, Todd River is well placed to pursue additional base metal opportunities across its extensive exploration portfolio that also includes the large applications in the Bangemall Region of Western Australia.

### **Forward Looking Statements**

This announcement includes forward-looking statements. These statements relate to the Company's expectations, beliefs, intentions or strategies regarding the future. These statements can be identified by the use of words like "will", "progress", "anticipate", "intend", "expect", "may", "seek", "towards", "enable" and similar words or expressions containing same.

The forward-looking statements reflect the Company's views and assumptions with respect to future events as of the date of this announcement and are subject to a variety of unpredictable risks, uncertainties, and other unknowns. Actual and future results and trends could differ materially from those set forth in such statements due to various factors, many of which are beyond our ability to control or predict. Given these uncertainties, no one should place undue reliance on any forward looking statements attributable to the Company, or any of its affiliates or persons acting on its behalf. The Company does not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Neither the Company nor any other person, gives any representation, warranty, assurance, nor will guarantee that the occurrence of the events expressed or implied in any forward-looking statement will actually occur. To the maximum extent permitted by law, the Company and each of its advisors, affiliates, related bodies corporate, directors, officers, partners, employees and agents disclaim any responsibility for the accuracy or completeness of any forward-looking statements whether as a result of new information, future events or results or otherwise.

### **Competent Person Statement**

The information in this announcement that relates to exploration results is extracted from ASX announcements titled:

- Robust EM Conductor and Anomalous Cu-PGE Results in Initial RC Drilling at Nerramyne

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 announcements. 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 announcements.