

## ASX ANNOUNCEMENT

6<sup>th</sup> November 2024

### Drilling commences at the Doherty Manganese Project, NSW

#### HIGHLIGHTS

- Chief Drilling have commenced drilling at the Doherty Project
- Chargeability anomalies identified by the GAIP survey directly south of Junior, remain the priority
- Coincident geophysical, geochemical and lithological targets to be tested by drilling

**Great Dirt Resources Limited (ASX:GR8) (“Great Dirt” or “The Company”)** is pleased to announce that drilling has commenced at the Doherty Project, within the Company’s 100% owned Doherty and Basin Manganese Project in NSW, EL9527 (the “Project”).

Chief Drilling has mobilised to site and has commenced drilling in the area around the existing Junior Mine and its southern extension. This drill program comprises approximately 2300 metres with ~19 planned holes, to depths of between 50 to 150m, generally to the east. Drilling is expected to last two to three weeks.

GR8 recently announced the results of a Gradient Array Induced Polarisation (GAIP) and Gravity geophysical survey conducted by Fender Geophysics that further helped define drill targets at the Project.

The targets of specific interest are characterised by elongate and sub-parallel chargeability responses identified by the GAIP survey and manganese soil anomalies, located directly north and south of Junior. Chargeability anomalies can indicate the presence of sulphide minerals or other conductive materials often associated with mineralisation. These anomalies appear to truncate against a linear fault-like structure (Figure 1) and elsewhere in Australia economic deposits of manganese form in similar types of settings, where manganese is concentrated by secondary remobilisation.

#### **Great Dirt’s Managing Director, Marty Helean commented.**

*"We are excited to test these targets which represent the culmination of 12 months of diligent groundwork and marks two years since the inception of Great Dirt. The fieldwork has led to the identification of these compelling drill targets, and we look forward to providing updates to the market in due course."*

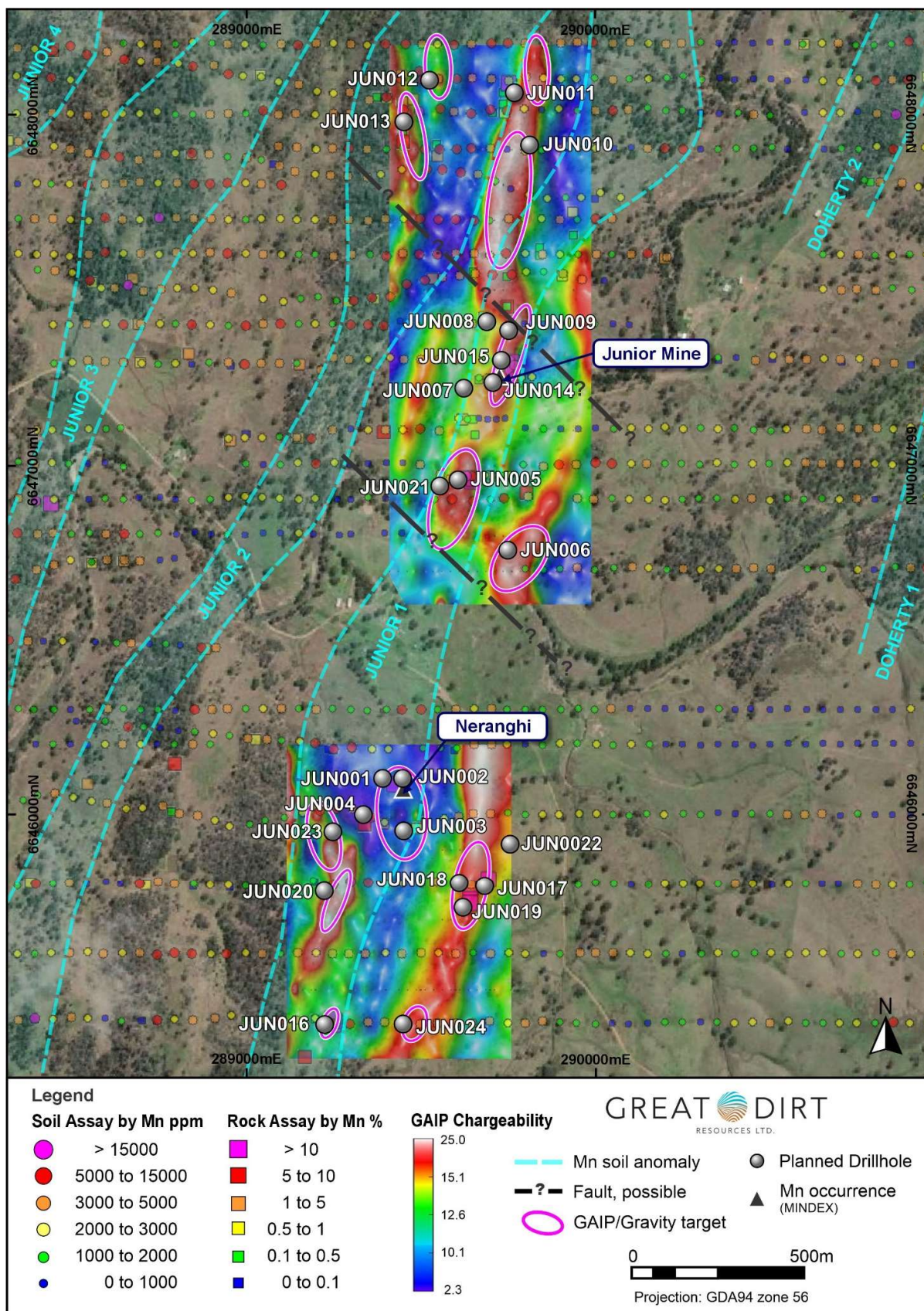


Figure 1: Chargeability survey image (hot colours red/white) over satellite imagery. GAIP and Gravity Targets are shown with geochemical soil and rock chip samples, and planned drill holes – ASX Announcement 1 August 2024.

**Authorised for release to the ASX by the Board of Great Dirt Resources LTD.**

**For further information, please visit or contact:**



[www.greatdirt.com.au](http://www.greatdirt.com.au)



[info@greatdirt.com.au](mailto:info@greatdirt.com.au)



## About Great Dirt Resources Ltd

Great Dirt's **Doherty and Basin Projects** are contained within EL 9527, located near the Barraba township, in northern NSW. These projects are prospective for high-grade manganese, with both projects having produced metallurgical and battery grade manganese historically. The Doherty Project comprises the old Doherty and Junior Mines, plus other workings and occurrences of manganese. The Basin Project contains several smaller manganese workings.

From 1941, for two decades, mines of the Doherty Project produced around 9,000 tonnes of battery and metallurgical grade manganese, both from opencut and underground operations. The battery grade ore was delivered to Eveready in Sydney for use in dry cell batteries, the metallurgical grade ore was purchased by BHP for use in steel production.

Great Dirt believes that historical work, while having discovered manganese, is unlikely to have located all sources in the area. Floaters, large rock fragments in the soil profile, of high-grade manganese ore reported outside known mine areas are a direct indication of unidentified manganese mineralisation. Additionally, notes on the mineral occurrences of the area refer to extensions and deposits along strike that were not mined.

A program of modern, systematic, geochemical and geophysical surveys will test known targets and their extents and could locate previously unrecognised blind deposits. Subsurface geophysical methods and drilling is likely to yield further targets that could be developed into projects to produce metallurgical and battery grade manganese.

Great Dirt has significantly expanded its manganese exploration portfolio following the acquisition of two tenements (E45/6949 and E45/6950 – the '**Nullagine Project**'), ~ 50km northeast of Consolidated Minerals Woodie Woodie manganese mine, in the Shire of East Pilbara, Western Australia.

Following a successful ballot application, Great Dirt has expanded its WA portfolio to include a position in one of the most prominent lithium regions in Western Australia and worldwide. Tenement E45/6863 – '**Pilbara Project**' is located approximately 43km from Pilbara Minerals (ASX:PLS), Pilgangoora Lithium Project, one of the largest hard-rock lithium deposits in the world.



## Competent Person's Statement

Information in this announcement that relates to exploration results is based on and fairly represents information and supporting documentation prepared and compiled by Mr Michael Leu, who is a Member of the Australian Institute of Geoscientists and a Member of the Australasian Institute of Mining and Metallurgy. Mr Leu is the geological consultant for Great Dirt Resources Ltd. Mr Michael Leu 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 Edition of the Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves. Mr Michael Leu consents to the inclusion in the announcement of the matters based on this information in the form and context in which it appears.

## No New Information

Except where explicitly stated, this announcement contains references to prior exploration results, all of which have been cross-referenced to previous market announcements made by the Company. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements.

## Forward Looking Statement

This report contains forward looking statements concerning the projects owned by Great Dirt Resources Ltd. If applicable, statements concerning mining reserves and resources may also be deemed to be forward looking statements in that they involve estimates based on specific assumptions. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward-looking statements as a result of a variety of risks, uncertainties and other factors. Forward looking statements are based on management's beliefs, opinions and estimates as of the dates the forward looking statements are made and no obligation is assumed to update forward looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.