



# Quarterly Activities Report

30 January 2023

Battery metals explorer **Charger Metals NL** (ASX: **CHR**, 'Charger' or 'the Company') is pleased to provide the following Activities Report for the period of October to December 2022 inclusive ('Quarter').

## HIGHLIGHTS

### Lake Johnston Lithium Project, Western Australia

- Reverse circulation drilling of 17 holes of a 40-hole programme (2,669 metres), completed at the Medcalf Spodumene Prospect, revealing a spodumene-bearing pegmatite swarm.
- Multiple spodumene-pegmatites, up to 5 metres wide, intersected in 15 of 17 holes<sup>1</sup>.
- Drilling resumed in January 2023, continuing to test the 800m by 300m swarm of pegmatites which remain open along strike and at depth.
- Target generation activities within the Mt Day Pegmatite Prospect continue.
- Acquisition of a 100% interest in the Medcalf West exploration licence E63/1883, increasing Charger's land position by 33km<sup>2</sup>.
- The reversion to a 100% interest in the Pagrus exploration license E63/1903 for all minerals following the termination of the Okapi gold and nickel-focussed farm-in joint venture. The Company has previously identified pegmatites within this tenement.

### Bynoe Lithium Project, Northern Territory

- MMP<sup>2</sup> and the AAPA<sup>3</sup> Permits approved for the maiden drill programme at the Bynoe Project.
- Drill site access clearing well advanced prior to the onset of the wet season.

### Coates Ni-Cu-Co-PGE Project, Western Australia

- Minor pyrrhotite and accessory chalcopyrite intersected in diamond drill holes confirmed by geochemical analysis. The geological context remains unresolved.

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<sup>1</sup>Throughout this document Charger refers to minerals including "spodumene" and "spodumene-pegmatite". While the Company is very encouraged by its geological observations, no quantitative or qualitative assessment of mineralisation is possible at this stage. Drilling widths reported are downhole and no estimate of true width is given. Further, no forecast is made of whether this or further drilling will deliver ore-grade intersections, resources or reserves. The observed presence of spodumene crystals within pegmatite does not necessarily equate to lithium mineralisation until confirmed by chemical analysis which is currently underway. It is not possible to estimate the concentration of lithium in mineralisation by visual estimates and this will be determined by chemical analysis.

<sup>2</sup> MMP refers to an exploration Mine Management Plan approved by the Northern Territory Department of Industry, Tourism and Trade.

<sup>3</sup> AAPA means heritage approvals received from the Aboriginal Affairs Protection Authority of the Northern Territory.

## Corporate

- At the end of the December quarter, the Company held cash reserves of \$7.08m.
- The Company has 62.1 million fully paid ordinary shares on issue and an undiluted market capitalisation of approximately \$21.7 million
- The top 20 shareholders hold approximately 55.2% of the issued shares.



Figure 1: Location of Charger Metals NL Projects in three emerging battery metals belts

## LAKE JOHNSTON LITHIUM PROJECT, WESTERN AUSTRALIA (CHARGER 70% -100% INTEREST)

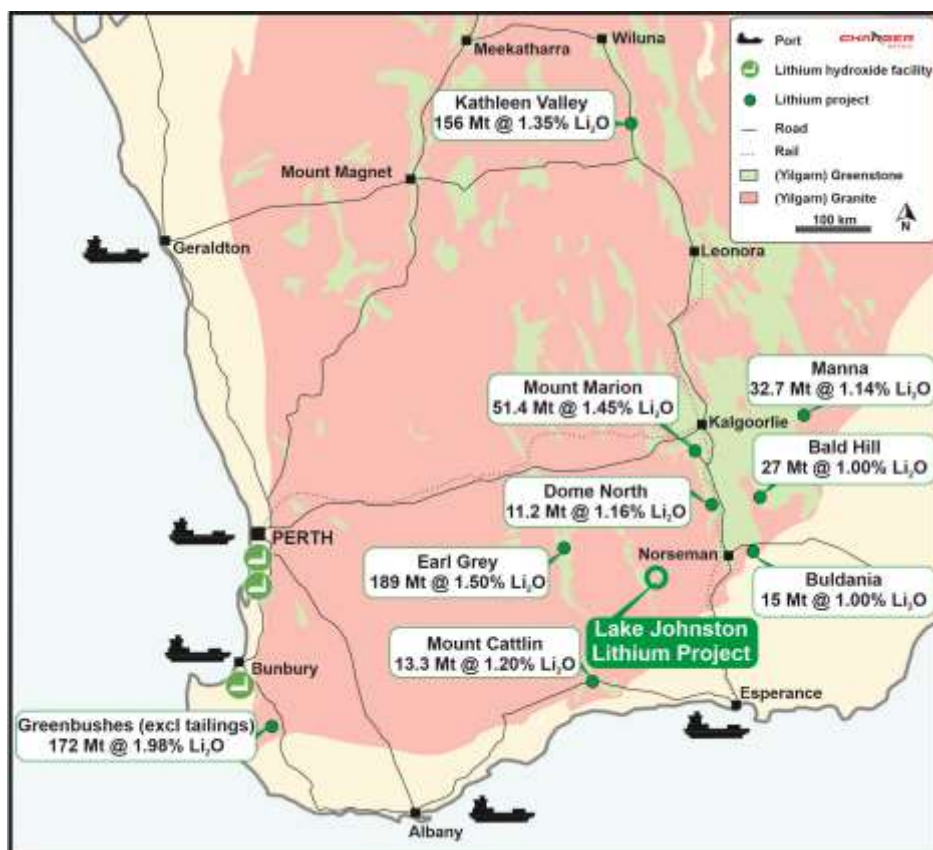


Figure 2. Location of the Lake Johnston Lithium Project relative to other spodumene deposits of southern Western Australia.

## Drilling in progress, targeting spodumene-pegmatites at the Medcalf Prospect.

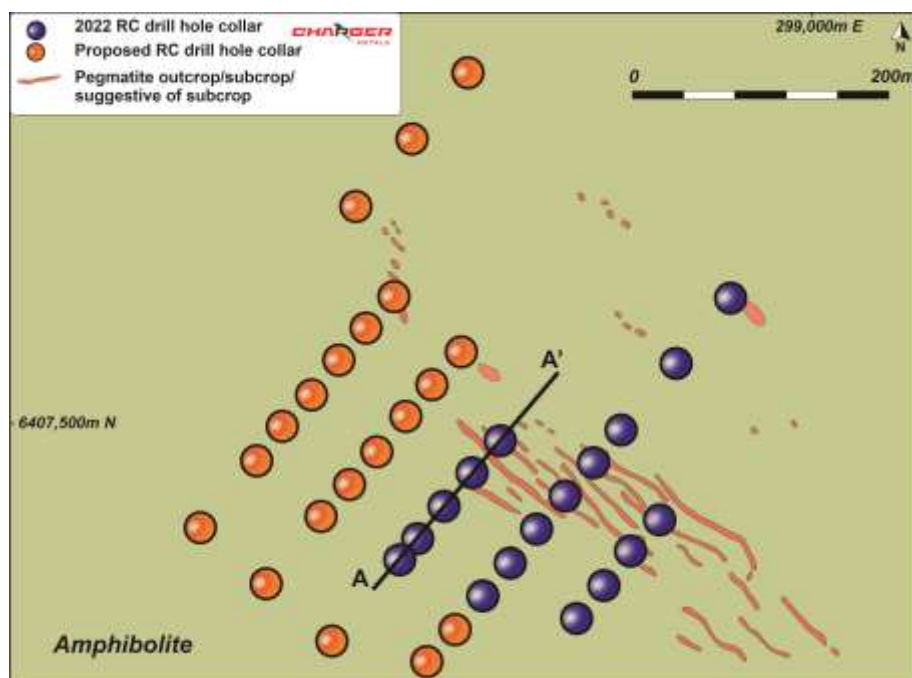
A programme of approximately 40 reverse circulation ('RC') drill holes commenced during the quarter to test the extent of spodumene-bearing lithium-caesium-tantalum ('LCT') pegmatites at the Medcalf spodumene discovery, Lake Johnston near Norseman in Western Australia.

The Medcalf pegmatites were discovered to have outcropping spodumene during reconnaissance fieldwork in 2018 and 2019<sup>4</sup>, which included soil geochemistry, mapping and rock chip analysis centred on an area northeast of Lake Medcalf<sup>5</sup>, Western Australia. Previously, the GSWA<sup>6</sup> 1:250,000 Lake Johnston map indicated an undifferentiated pegmatite outcrop at this location.

The Medcalf spodumene discovery represents a swarm of anastomosing to tabular pegmatites hosted in sheared amphibolite. The pegmatites are members of the albite-spodumene type LCT pegmatite family and spodumene is clearly observed in many pegmatite outcrops. Spodumene is the preferred mineral for the commercial production of lithium, which is one component of modern lithium batteries.

RC drilling commenced during December 2022<sup>7</sup> and resumed in mid-January 2023. Spodumene-pegmatites have been intersected on each of the sections drilled to date. Individual units, up to 5m in width, have a strike direction of north-west - south-east and dip at approximately -40° towards the south-west (Figures 3 and 4). To date, thicker pegmatites are recorded on the north-western-most drill section indicating a possible north-westerly plunge to the mineralisation.

Current laboratory turn-around means that the first assays are due towards the end of February.



**Figure 3. Medcalf Spodumene Prospect showing mapped pegmatite, completed and proposed drill collars relative to the surface mapped pegmatite swarm. Assays shown are of spodumene-bearing rock chips.**

4 ASX: LIT 11 April 2019: Spodumene pegmatite swarm discovered at Lithium Australia's Medcalf Prospect Lake Johnston, WA.

5 Located approximately 450km east of Perth WA.

6 Geological Survey of Western Australia

7 Charger announcement to ASX dated 20 December 2022

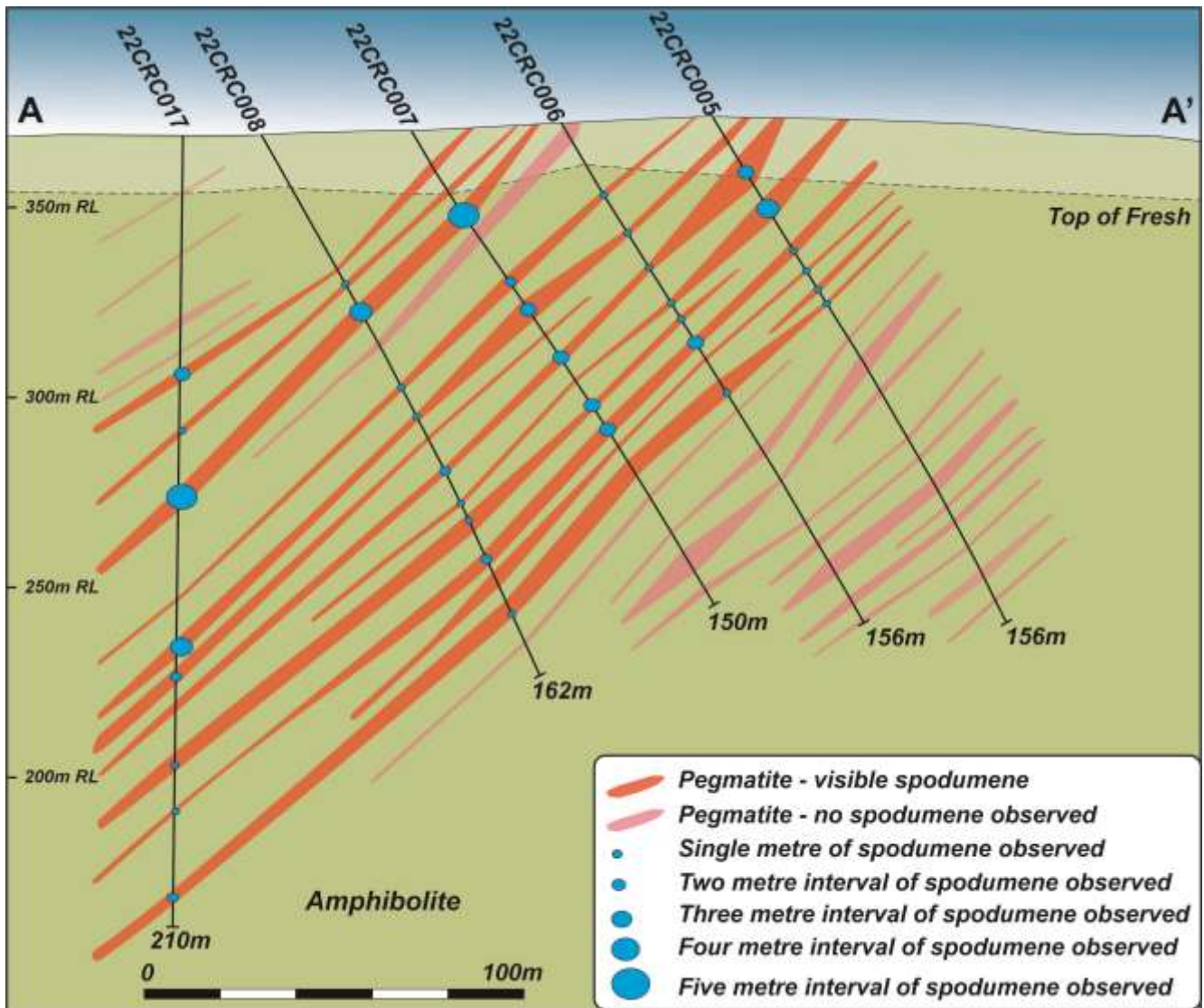


Figure 4. Cross section A-A' showing an interpretation of the pegmatite swarm; specifically identifying the occurrence of apparent spodumene within each pegmatite (Refer to Note 1).

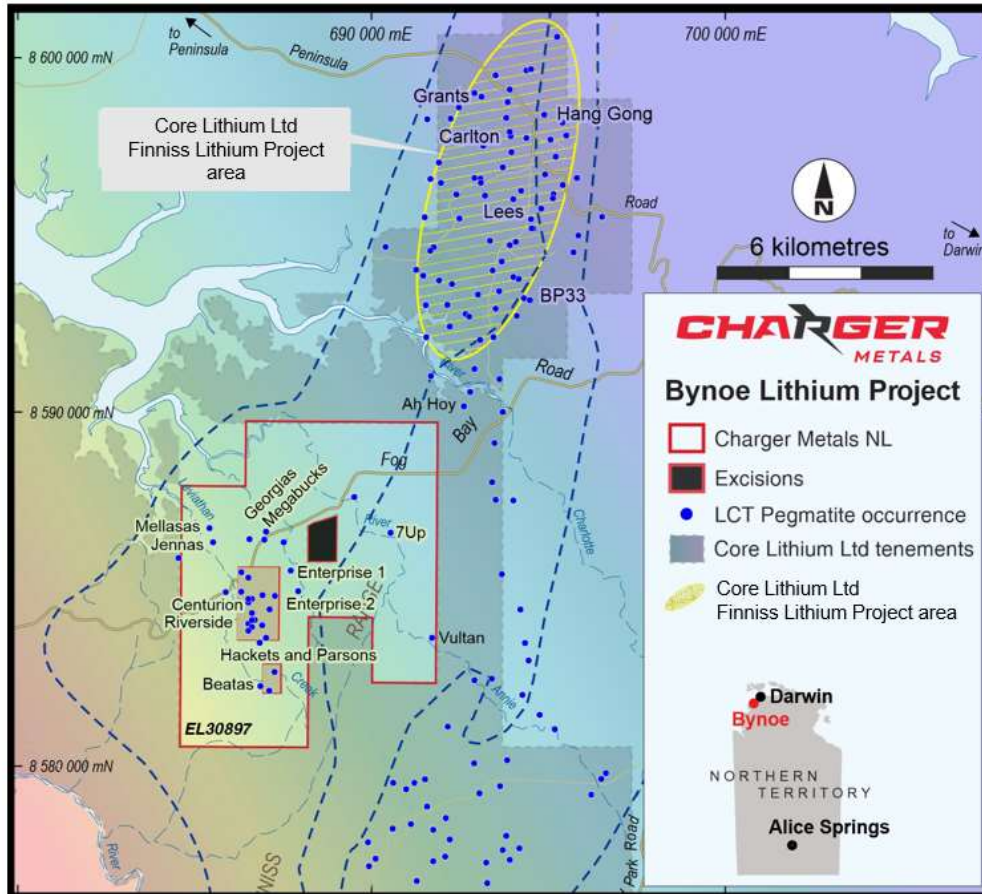
### Lake Johnston Project outlook

The Company's highest current priority is to complete the Medcalf RC drilling programme. It is expected that infill drilling will follow, and a component of this will be diamond core drilling, with the objective of establishing an initial mineral resource.

Complementing this will be additional field mapping, soil sampling, botanic and heritage surveys within Medcalf West E63/1883 and the Mt Day LCT pegmatite field in preparation for drilling later in the year.

## BYNOE LITHIUM PROJECT, NORTHERN TERRITORY (CHARGER - 70% INTEREST)

The Bynoe Lithium Project is located approximately 35 km southwest of Darwin, Northern Territory, with excellent access and nearby infrastructure. Charger's Project is enclosed by Core Lithium Limited's (ASX: CXO) Finniss Lithium Project (Figure 5), which has a mineral resource of 18.9Mt at 1.32% Li<sub>2</sub>O<sup>8</sup>. CXO has commenced construction and mining activities at its Finniss Project and announced the sale of direct shipping spodumene ore in January 2023.



**Figure 5: Bynoe Lithium Project showing LCT pegmatite prospect names and proximity to Core Lithium's Finniss Lithium Project within the greater Bynoe Pegmatite Field.**

The Company received an AAPA heritage certificate during the quarter. This follows the approval of an exploration MMP, both of which were required before drilling can commence. Preparations for drilling advanced with clearing to support drill access undertaken to the 7-Up Prospect before monsoonal rains halted progress. The seasonal wet commenced earlier than hoped at the Bynoe Lithium Project, shortly after Charger received its drilling approvals.

## Bynoe Lithium Project outlook

Charger currently has approvals to drill up to 316 holes at the Bynoe Lithium Project. Once suitable weather conditions return and sites have been cleared, drilling of the spodumene-prospective LCT pegmatites at Old Bucks, Mega Bucks and 7-Up and other prospects can

<sup>8</sup> Refer to ASX: CXO announcement dated 12 July 2022, "Significant Increase to Finniss Lithium Project Mineral Resource and Ore Reserves".

commence. Charger's team and contractors are closely monitoring ground conditions at Bynoe with a view to commencing drilling as soon as conditions allow.

### **COATES NI-CU-CO-PGE PROJECT, WESTERN AUSTRALIA (CHARGER 70%-85% INTEREST)**

Pyrrhotite and accessory chalcopyrite intersected in diamond drill holes have been confirmed by geochemical analysis. Sulphide-associated nickel and PGE was not significant. The geological context remains unresolved with both hydrothermal and magmatic origins plausible.

#### **Coates Project outlook**

The Company awaits the grant of ELA70/5437. This tenement overlies the majority of the T1 conductor to the south of the targets drilled last year and is closer to the core of the Coates mafic intrusive system.

## CORPORATE

### Cash at Bank

Charger had cash at bank at 31 December 2022 of \$7.08 million. The Company has 62.1 million fully paid ordinary shares on issue and an undiluted market capitalisation of approximately \$21.7 million as at 30 January 2023. Charger has a tightly held capital structure with the top 20 shareholders hold approximately 55.2% of the issued shares.

### ASX Listing Rule 5.3.2 Disclosure

There were no substantive mining production and development activities conducted during the quarter.

### ASX Listing Rule 5.3.4 Disclosure

| Indicative Use of Funds                                      | Per IPO Prospectus<br>(2-year period) | Actual<br>Expenditure<br>Up to 31<br>December 2022 |
|--------------------------------------------------------------|---------------------------------------|----------------------------------------------------|
| Exploration at Coates Project                                | \$1,536,000                           | \$616,334                                          |
| Exploration at Lake Johnston Lithium Project                 | \$948,000                             | \$987,454                                          |
| Exploration at Bynoe Lithium Project                         | \$937,200                             | \$583,107                                          |
| Acquisition costs & stamp duty (including expenses of offer) | \$746,506                             | \$706,343                                          |
| New project acquisition targets                              | \$300,000                             | -                                                  |
| General working capital                                      | \$2,187,294                           | \$1,523,165                                        |
| Total Allocation                                             | <b>\$6,355,000</b>                    | <b>\$4,416,402</b>                                 |

Table 1: Indicative use of funds

Expenditure for the period from listing on 9 July 2021 to 31 December 2022 was less than projected due to permitting and weather causing delays to drilling programmes at the Bynoe and Coates Project in which a significant portion of the projected expenditure in the Prospectus related to.

Delays in permitting further drilling at the Coates Project are due in part to negotiations with landholders for access agreements over secondary targets, further extended by delays in obtaining approval to commence drilling from the DMIRS. In the time since publishing the Prospectus lithium prices have significantly improved which will likely see a reallocation of funds towards the Bynoe and Lake Johnston Lithium Projects.

**ASX Listing Rule 5.3.5 Disclosure** - Payments to related parties during the quarter as outlined in Sections 6.1 and 6.2 of the Appendix 5B consisted of \$45,159 in directors' fees and fees to the Managing Director under his executive services agreement.

Authorised for release by the Board.

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## Tenement Schedule as at 31 December 2022

| Tenement     | Project                                                   | % interest                                                                                        |
|--------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| E70/5198     | Coates Project, Western Australia                         | 70%                                                                                               |
| ELA70/5437 * | Coates Project, Western Australia                         | 70%                                                                                               |
| P70/1752     | Coates Project, Western Australia                         | 70%                                                                                               |
| P70/1753     | Coates Project, Western Australia                         | 70%                                                                                               |
| R70/59       | Coates Project, Western Australia                         | 85% - subject to Yankuang Bauxite Interest                                                        |
| EL30897      | Bynoe Lithium and Gold Project, Northern Territory        | 70%                                                                                               |
| E63/1809     | Lake Johnston Lithium and Gold Project, Western Australia | 70%                                                                                               |
| E63/1866     | Lake Johnston Lithium and Gold Project, Western Australia | 70%                                                                                               |
| E63/1903     | Lake Johnston Lithium and Gold Project, Western Australia | 100%                                                                                              |
| E63/1883     | Lake Johnston Lithium and Gold Project, Western Australia | 100%                                                                                              |
| E63/1722     | Lake Johnston Lithium Project, Western Australia          | 70% interest in lithium rights under the Lithium Rights Agreement with Lefroy Exploration Limited |
| E63/1723     | Lake Johnston Lithium Project, Western Australia          | 70% interest in lithium rights under the Lithium Rights Agreement with Lefroy Exploration Limited |
| E63/1777     | Lake Johnston Lithium Project, Western Australia          | 70% interest in lithium rights under the Lithium Rights Agreement with Lefroy Exploration Limited |

Table 2: Schedule of tenements. \* Exploration Licence Application

## JORC Table 1 Statement

JORC Table 1 was included in the following announcements released to the ASX:

### Coates Project

14 October 2021: "SkyTEM Survey confirms prospective nickel-copper-PGE targets".

7 April 2022: "Charger confirms massive sulphide targets at its Coates Nickel-Copper-PGE Project near Julimar".

5 September 2022: "Drilling update for Charger's Coates Nickel-Copper-PGE Project, Western Australia".

### Bynoe Project

27 October 2021: "Charger confirms emerging lithium targets at Bynoe".

13 December 2021: "Lithium Pegmatite Trends Highlighted at Bynoe".

### Lake Johnston Project

9 June 2022 "Charger confirms large lithium system at Lake Johnston Project".

20 December 2022 "Drilling at Medcalf reveals spodumene-bearing pegmatite swarm".

Charger confirms that it 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 exploration results continue to apply and have not materially changed. 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 announcement.

## Competent Person Statement

The information in this announcement that relates to exploration strategy and results is based on information provided to and compiled by geologist David Crook BSc GAICD who is a Member of The Australian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Crook is Managing Director of Charger Metals NL.

Mr Crook has sufficient experience which is relevant to the style of mineralisation and exploration processes as reported herein to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'.

Mr Crook consents to the inclusion in this announcement of the information contained herein, in the form and context in which it appears.

## Forward Looking Statements

This announcement may contain certain "forward looking statements" which may not have been based solely on historical facts, but rather may be based on the Company's current expectations about future events and results. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis.

However, forward looking statements are subject to risks, uncertainties, assumptions, and other factors which could cause actual results to differ materially from future results expressed, projected or implied by such forward looking statements. Such risks include, but are not limited to exploration risk, Resource risk, metal price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks in the countries and states in which we sell our product to, and government regulation and judicial outcomes.

For more detailed discussion of such risks and other factors, see the Company's Prospectus, as well as the Company's other filings. Readers should not place undue reliance on forward looking information. The Company does not undertake any obligation to release publicly any revisions to any "forward looking statement" to reflect events or circumstances after the date of this announcement, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.