

## PROSPECTIVE CLAY-RICH SAPROLITE OUTCROPS ENCOUNTERED AT POÇOS DE CALDAS

### Key Highlights

- Prospective clay-rich saprolite outcrops encountered up to 12 metres in thickness in the Caldera Project at the Poços de Caldas Alkaline Intrusive Complex, Brazil
- Initial geochemical sampling program completed and samples sent to the laboratory
- The Phase 1 exploration program includes field reconnaissance to identify potential anomalous ionic adsorption clay REE targets to be followed up with an auger drill program
- The project area is situated close to Meteoric Resources' (**ASX: MEI**) world class<sup>1</sup> Caldeira Project, as well as Viridis Mining and Minerals' (**ASX: VMM**) Colossus project

Si6 Metals Limited (**ASX:Si6**) ("**Si6**" or the "**Company**") is pleased to provide an update on the Phase 1 exploration program at the Caldera rare earth elements (**REE**) project in the REE-rich Poços de Caldas Alkaline Intrusive Complex in Brazil.

The project area sampled is underlain by weathered alkaline granites, syenites and granitic gneiss. The local strong weathering conditions created a saprolitic profile with variable thicknesses that can reach at least 12 metres, as observed in outcrops.

As the mineralization style (IAC REE) depends on the existence and preservation of a weathering profile, the geological reconnaissance took place along the existing roads, where roadcuts provide excellent outcrops.

<sup>1</sup> 1 May 2023, ASX: MEI announcement of Caldeira REE Project Maiden Mineral Resource, World's Highest Grade Ionic Adsorption Clay REE Deposit





**Figure 1: Examples of channel sample locations showing prospective saprolite (clay-rich zone).**

A total of 16 soil, channel and mechanical auger samples were collected from pre-selected locations evenly distributed throughout the tenement (Figure 2). The number of samples and their distribution are considered sufficient for the initial reconnaissance, in preparation for follow up auger drilling dependent on results. All samples were sent to SGS Geosol laboratory in Minas Gerais and results are pending.



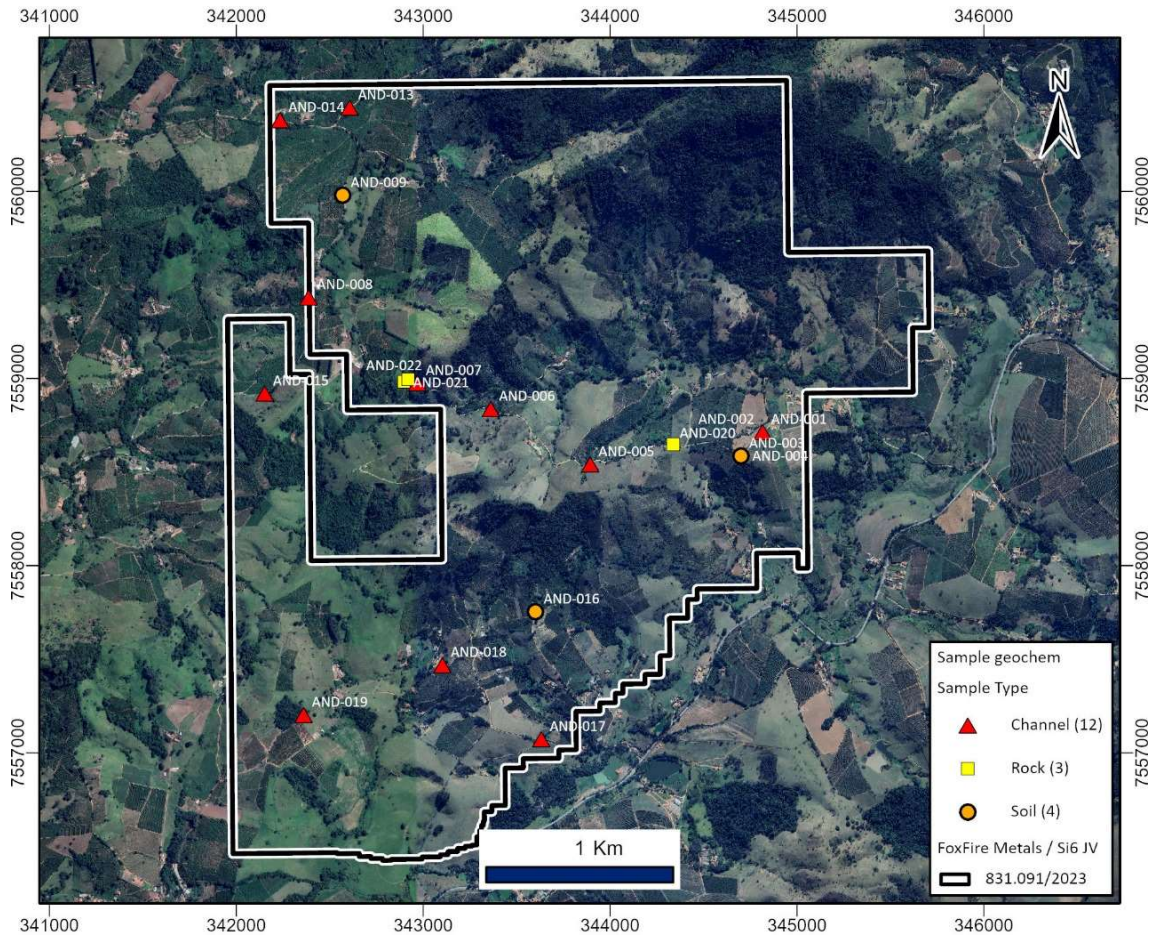


Figure 2: Tenement area with sample locations over satellite imagery.

The Phase 1 program also included a comprehensive review of geological and geophysical datasets to assist with planning the reconnaissance sampling over prospective weathered rocks of the Poços de Caldas Alkaline Intrusive Complex.





**Figure 3: Saprolite (clay-rich) sample collection.**

### **Caldera Project**

The Company's Caldera Project is adjacent to Meteoric Resources' Caldeira Project in the Poços de Caldas Alkaline Intrusive Complex, which has a major ionic adsorption clay REE Mineral Resource. Recently, Viridis Mining and Minerals also reported significant exploration success at its REE Colossus Project located nearby. Refer to Table 1 for a summary of these projects.



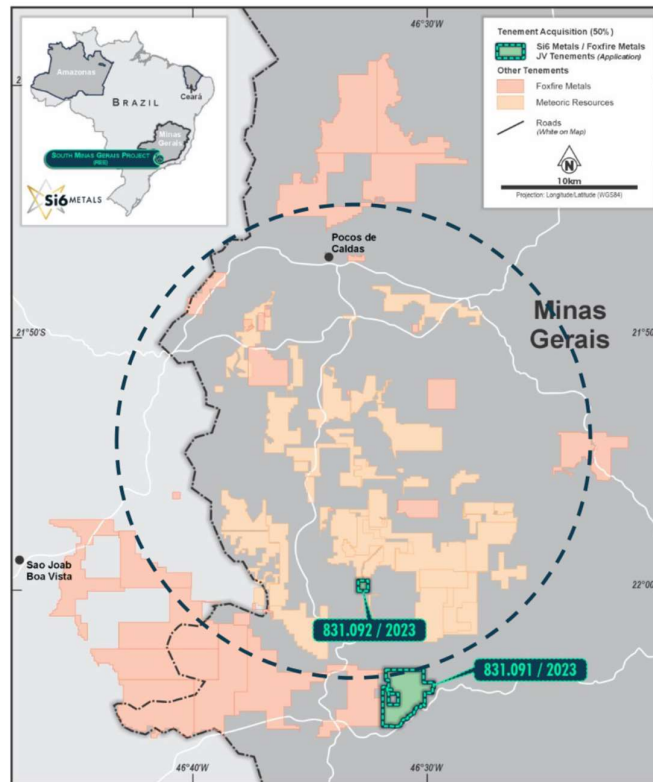


Figure 4: Si6 tenement locations in the Poços de Caldas area.

Company	Market Capitalisation (at 8 February 2024)	Discovery at Poços de Caldas Alkaline Intrusive Complex
Meteoric Resources NL (ASX:MEI)	~A\$348 million	409Mt @ 2,626ppm TREO (Inferred Resource) <sup>ref 1</sup>
Viridis Mining and Minerals Limited (ASX:VMM)	~A\$67 million	Fazenda Prospect: Ionic Adsorption Clay (IAC) body ranging from 10 to 20 meters thick with weighted average grade of 2,938ppm TREO Cupim South Prospect: IAC body ranging from 15-45 meters thick with weighted average grade of 3,460ppm TREO <sup>ref 2</sup> .
Si6 Metals Ltd (ASX:SI6) (50% JV)	~A\$8 million	Acquired 50% of two REE-prospective project areas at Caldera

Table 1: Major rare earth elements discoveries at the Poços de Caldas Alkaline Intrusive Complex, Minas Gerais.

References for Tables 1

1. Meteoric Resources NL ASX release 1 May 2023 "World's Highest Grade Ionic Clay REE Deposit"
2. Viridis Mining and Minerals Limited ASX release 7 December 2023 "Further Exceptional Discoveries Continue at Colossus 21.5m @3.195ppm TREO from surface"



This announcement has been approved by the Board of Si6 Metals Ltd.

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## About Si6

Si6 is a diversified critical metals and minerals explorer with a portfolio of flagship projects in Brazil, Botswana and Western Australia.

The Company's Botswana portfolio contains three flagship projects where high-grade Cu-Ag (Airstrip and Dibete) and a Maiden JORC Inferred Resource (Maibele North) have been discovered. Maibele North currently hosts a JORC (2012) inferred resource of 2.4Mt @ 0.72% Ni and 0.21% Cu + PGE's + Co + Au and is located within 50km of the Selebi-Phikwe mine recently acquired by TSX-listed Premium Nickel Resources Ltd (TSX-V:PNRL).

Si6 has acquired a 50% joint venture interest in a portfolio of critical metals exploration assets from Foxfire Metals Pty Ltd, predominantly focused on rare earth elements and lithium in Brazil. The projects are amongst known discoveries in the Lithium Valley (north Minas Gerais) and Poços de Caldas (south Minas Gerais).

The company also owns 100% of the Monument Gold project located in Leonora in Western Australia. The project has a JORC (2012) Inferred resource of 3.257Mt @ 1.4 g/t for 154koz Au.

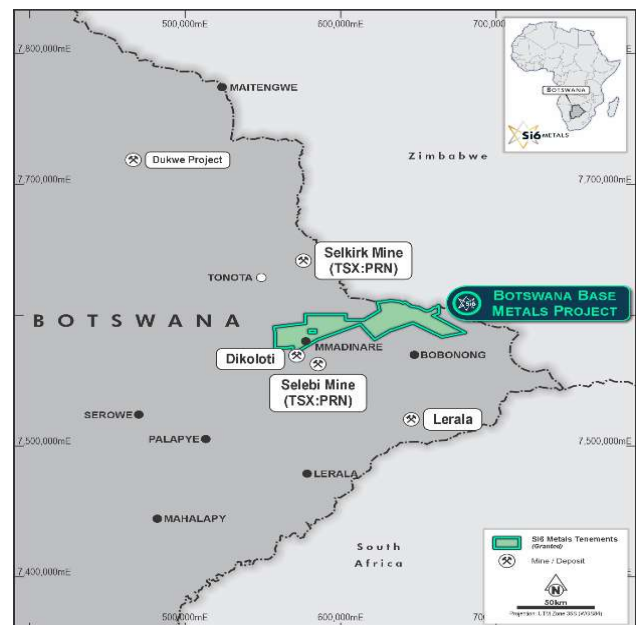


### Brazil (50% Joint Venture)

- **Caldera Project** – South Minas Gerais (Rare Earth Elements)
- **Lithium Valley Projects** – North Minas Gerais (Lithium, Rare Earth Elements)
- **Apuí Project** – Amazonas (Rare Earth Elements, Gold)
- **Pedra Branca Project** – Ceara (Lithium, Gold)

### Botswana (65% Joint Venture)

- **Dibete Project** – High grade copper-silver
- **Airstrip Project** – High grade copper-silver
- **Maibele North Project** – Ni-Cu-PGE  
JORC Inferred Resource 2.38Mt @ 0.72% Ni + 0.21% Cu + PGE + Au



### Competent Person's Statement

The information in this report that relates to Exploration Targets and Exploration Results is based on recent and historical exploration information compiled by Mr Cain Fogarty, who is a Competent Person and a Member of the Australian Institute of Geoscientists. Mr Fogarty is a Non-Executive Director of Si6 Metals Limited. Mr Fogarty has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for the reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Fogarty consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



## Disclaimer

In relying on the above mentioned ASX announcement and pursuant to ASX Listing Rule 5.23.2, the Company confirms that it is not aware of any new information or data that materially affects the information included in the above announcement. No exploration data or results are included in this document that have not previously been released publicly. The source of all data or results have been referenced.

## Forward-Looking Statements

This document may include forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Si6's mineral properties, planned exploration program(s) and other statements that are not historical facts. When used in this document, the words such as "could," "plan," "estimate," "expect," "intend," "may", "potential," "should," and similar expressions are forward looking statements. All of such statements are subject to certain risks and uncertainties, many of which are difficult to predict and generally beyond the control of the Company, that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. Our audience is cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and we do not undertake any obligation to revise and disseminate forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events.

