

# ASX Announcement



6 June 2023

ABN: 45 116 153 514

ASX: TMX

## Commencement of Pegmatite Drilling at Smokebush

**Terrain Minerals Limited (ASX: TMX) ('Terrain' or the 'Company')** is pleased to inform the market of the commencement of drilling targeting multiple pegmatites for Lithium at the Company's 100% owned Smokebush Project, located within the Yalgoo mineral field approximately 350 kilometres north of Perth, Western Australia.

- **RC Drilling program has commenced ~900m over ~11 holes**
- **7 priority pegmatites being drill tested out of the 11 identified**
- **Pegmatites ranging ~10m to 15m wide & ~200m long, before going undercover over a ~4 km long area**
- **K/Rb Ratios <40 & 200ppm Li<sub>2</sub>O in multiple rock chip samples which is considered a prospective indicator for lithium formed deeper in Pegmatites**



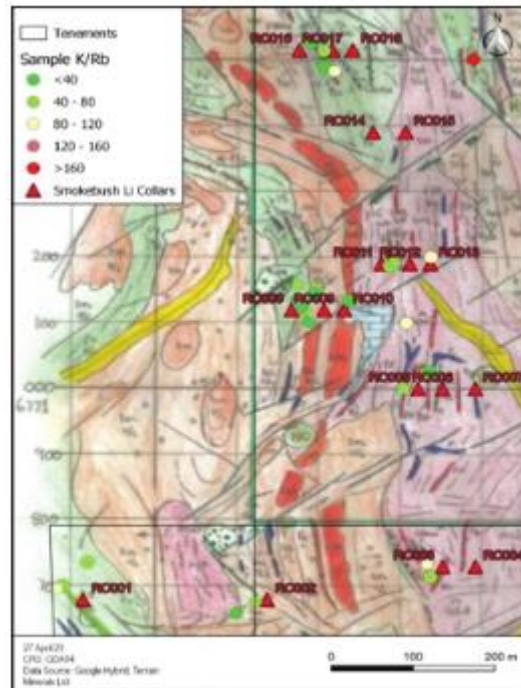
**Picture 1** – Challenger Drilling rig with support vehicles.

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## Refer to JORC tables on lithium results quoted above:

16 May 2023 - Smokebush - New Gold & Copper/Ni Anomalies.



**Diagram 1.** Pegmatites are mainly located over tenements P59/2126 and E59/2435, The main area of interest runs along a ~4km long zone of pegmatites swarm's seen in red.

## Other Smokebush News:

### Gold - IP Survey Drilling Update

Terrain's geological team has commenced ground activities in preparation of drilling following the completion of the induced polarisation (IP) survey. Drilling is expected to be in late June or early July. Please refer to the below ASX release for further details.

**Refer to ASX release:**

**22 May 2023** - 600-metre-long chargeability anomaly identified parallel to Monza Gold prospect, Smokebush Project.

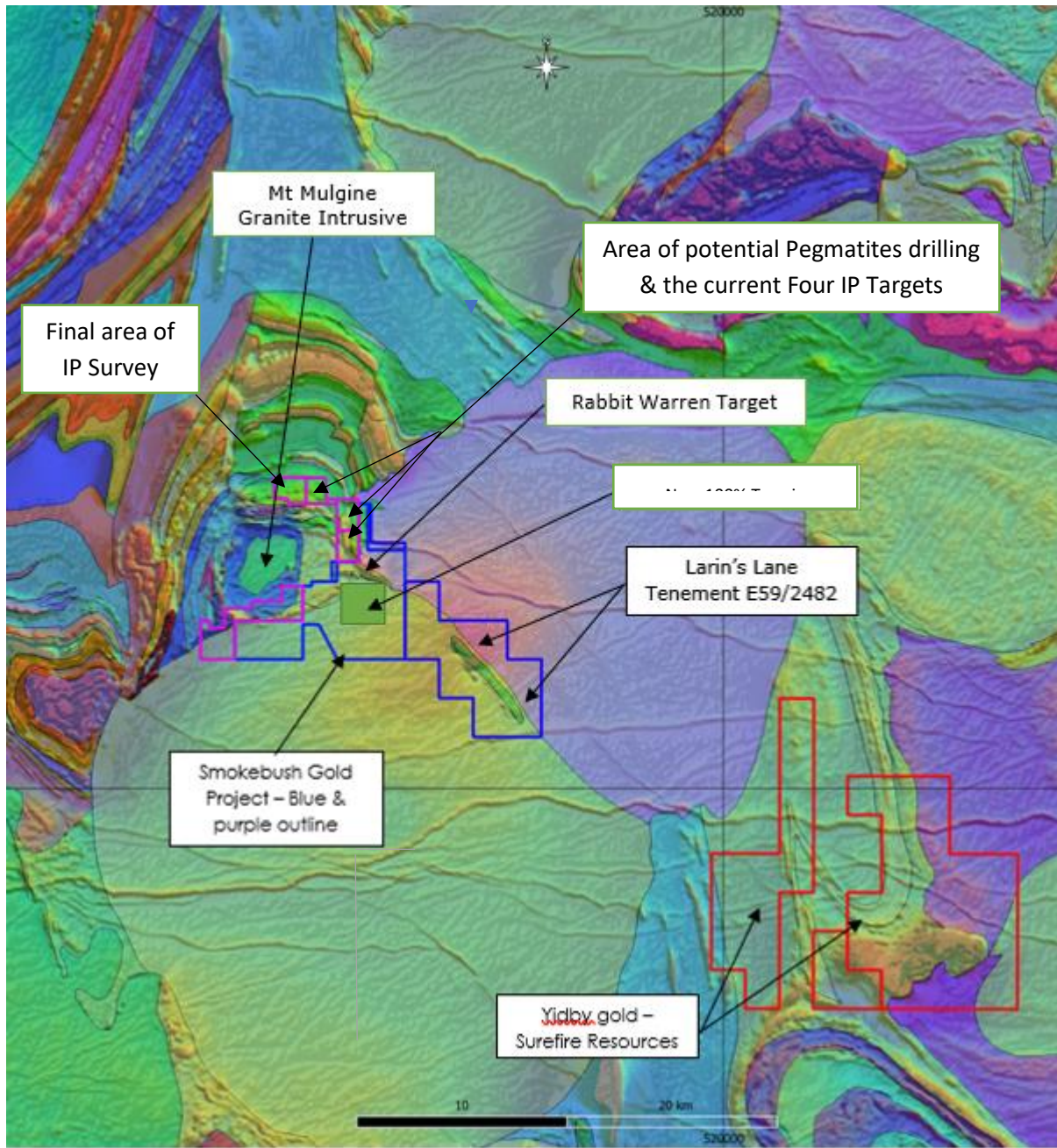
### Gold - Larin Lane Update

Highly successful Mobile Metal Ion (MMI) soils sampling results from Larin's Lane has identified two new targets and one large gold anomaly - ~700m by ~250m and an "Open" Copper with associated Nickel Anomaly - ~600m by ~350m open towards the Southeast. A 9km<sup>2</sup> extension program is due to commence within the next ~5 weeks.

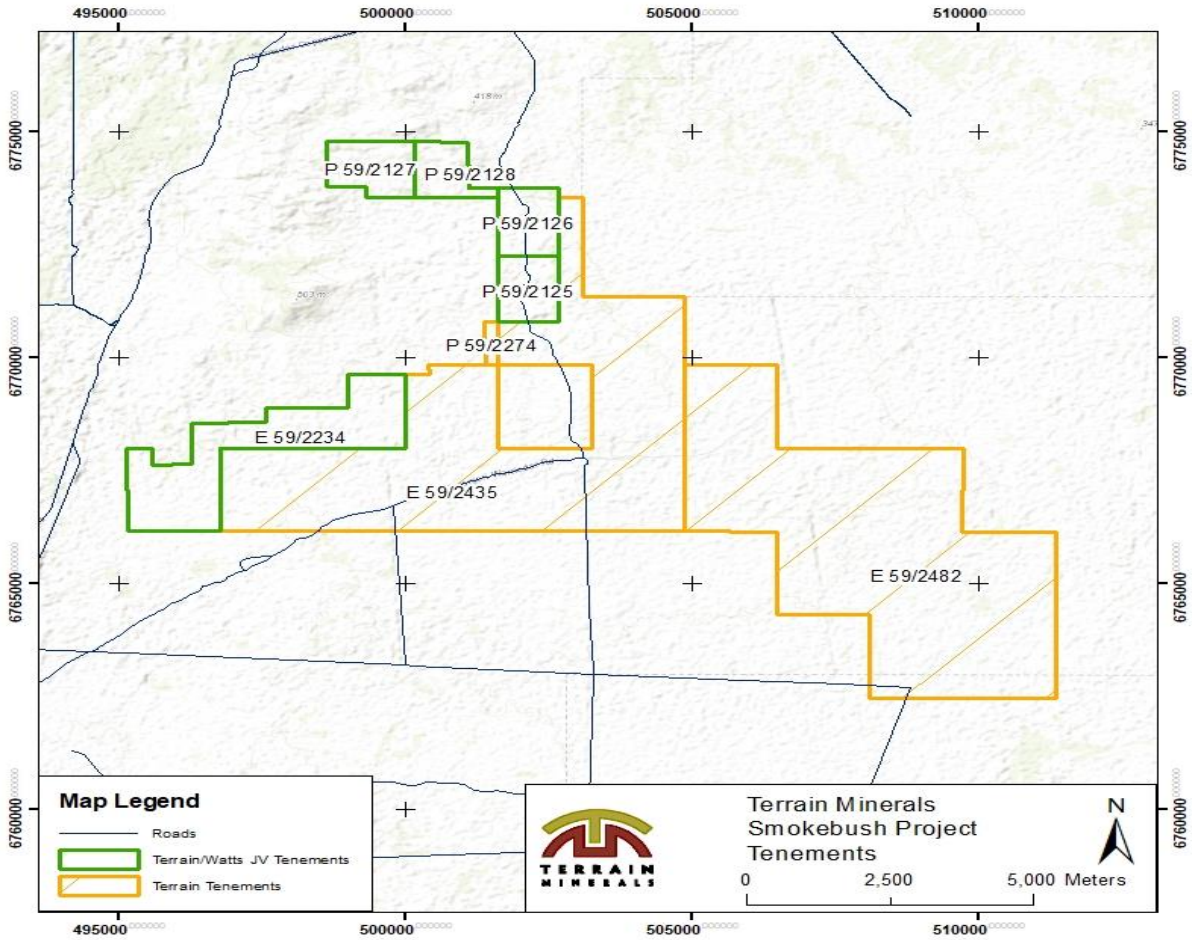
The new Anomalies are within similar geological setting to Golden Grove (Refer to diagram 4) and planning for drill testing of the Gold and Copper/Ni targets is under way once the anomalies boundaries have been defined.

**Refer to ASX release:**

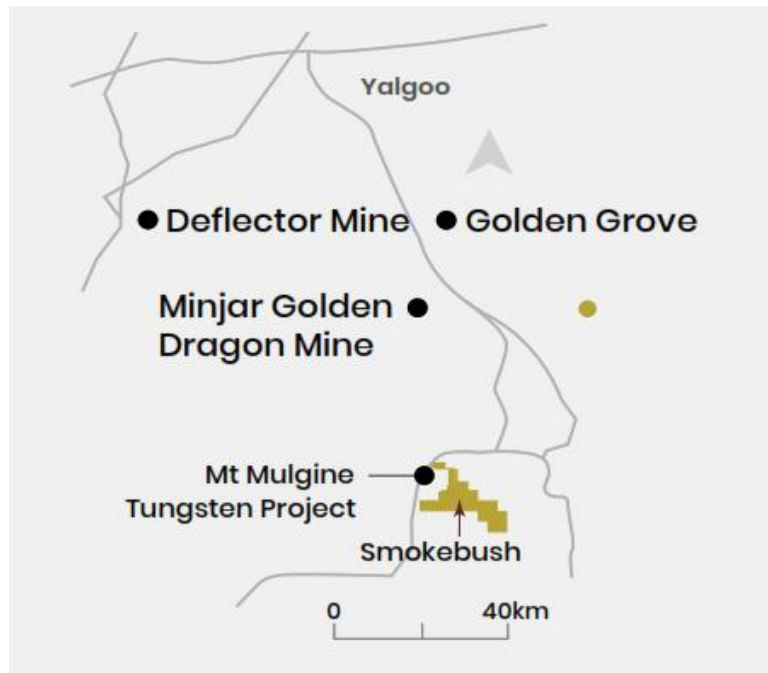
**16 May 2023- Smokebush - New Gold & Copper/Ni Anomalies.**



**Diagram 2:** Smokebush Project Location: Larin's Lane Gold & Copper target a ~4.5km long by 200-300m wide previously untested and undercover greenstone that is interpreted to be wedged between two granites.



**Diagram 3:** Smokebush Project Location (tenements 100%).



**Diagram 4:** Smokebush project location in relation to discoveries in the area.

## Location & Access

The Smokebush Project area is located approximately ~350km from Perth Western Australia and 85 kilometres east northeast of the Perenjori township and 65 kilometres west of Paynes Find within the Yalgoo Mineral Field. The tenements can be accessed via the unsealed Perenjori - Warriedar Road, and thence via extensive historical exploration grid lines, station tracks and fences lines.

The now 100% owned project consist of Prospecting Licenses (P59/2125, 2126, 2127, 2128 & 2774) and Exploration Licence E59/2234, 2435, 2482 & 2700 (refer to diagram 2 & 3).

The geology of the area consists predominantly of a complexly folded, regionally metamorphosed Archaean greenstone sequence at the southern end of the Yalgoo Singleton Greenstone Belt that has been subjected to multi-phase granitoid intrusion. Located adjacent to a large tungsten resource at Mt Mulgine (Tungsten Mining NL) and a number of Minjar Golds Pty Ltd open pit mines, now held by Warriedar Resource (AXS: WA8).

Justin Virgin  
Executive Director

### For further information, please contact:

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**Note:** For additional information refer to ASX announcement:

- **2 December 2019** - Farm-in Agreement for the Smokebush Gold Project at Mt Mulgine, 65km West of Paynes Find WA.
- **18 December 2019** - Smokebush Exceptional Historic Drilling Results Identified During Project Due Diligence.
- **3 March 2020** - Exciting Results from Smokebush Gold Project.
- **08 October 2020** - High Grade Rock Chips at Smokebush Gold Project.
- **12 October 2020** - Exciting Drilling Results at Smokebush Gold Project.
- **3 December 2020** - New Application Granted with Exciting Historic Results at the Paradise City Gold Prospect - Smokebush Gold Project.
- **12 February 2021** - Ground Geophysics & Mapping Refines Targeting Matrix at Smokebush Gold Project.
- **17 March 2021** - Drilling & Project Update - Smokebush Gold Project.
- **22 April 2021** - 2,100m RC Drilling Program Commenced at the Smokebush Gold Project.
- **27 May 2021** - New Rock Chip Samples & Drilling Update Smokebush Gold Project.
- **19 July 2021** - Positive First Pass Drilling Results Smokebush Gold Project.
- **13 September 2021** - New Geological Interpretation (Monza) & Exploration Update, Smokebush Gold Project.
- **23 August 2022** - New Project Calytrix & Smokebush & Wild-viper Gold Project Updates.
- **2 December 2022** - Acquisition Smokebush JV Tenement Now 100% owned.
- **6 December 2022** - Smokebush - Pegmatite Swarms Identified, Sampling for Lithium Mineralisation Underway.
- **7 February 2023** - Smokebush - 2023 Field Season Now Underway, IP Survey & MMI Soils Programs.
- **17 March 2023** - Smokebush - IP Survey & Lithium Update Priority Gold Drill Targets Emerging.
- **02 May 2023** - Smokebush IP Survey Expanded & Update.
- **16 May 2023** - Smokebush - New Gold & Copper/Ni Anomalies.
- **22 May 2023** - 600-metre-long chargeability anomaly identified parallel to Monza Gold prospect, Smokebush Project.

### ABOUT TERRAIN MINERALS LIMITED:

Terrain Minerals Limited (ASX: TMX) is a mineral exploration company with a Western Australian based asset portfolio consisting of:

- **Investments:** As of the date of this announcement, Terrain holds 650,000 Red 5 Limited shares (ASX: RED) from the Great Western sale.
- **Lort River** - WA Rare Earth Elements Exploration Project 100% owned. Covering 320km<sup>2</sup> of highly prospective exploration acreage for REE within the now tightly held and emerging southern Esperance clay hosted REE province of Western Australia. Terrain is currently planning to execute a smaller proof of concept roadside (air core) drilling campaign before embarking on a larger wide spaced 8,500m 1600m by 1600m, 60m deep air core program over tenement package. Heritage related matters are

currently being addressed, for clearance purposes. Secondly: Bottom of hole samples will also be separately testing for Tropical style gold and Nova style base metal targets. Heritage clearance has commenced.

- **Smokebush (SB):** 100% owned gold and lithium exploration project located with this prospective Yalgoo Mineral Field of Western Australia. The Company's Smokebush Project neighbours Warriedar Resources Limited's (ASX: WA8) (formally Minjar, Golden Dragon Project), and The Company's exploration campaigns targeting both gold, lithium and now Copper/Ni across its Smokebush Project is ongoing.
- **SB - Gold IP Survey** – on going IP survey program has identified four drill worth targets, see above release for further information.
- **SB - Lithium** - 11+ pegmatites identified to date that are potentially drill worthy, ranging up 10m wide and up to 200m long before appearing to go under cover. The pegmatite swarms run along a 4 km long zone between Hurley and the Rabbit Warren area. Refer to above release for drilling update.
- **SB - Larin's Lane** – Exceptional MMI soil sampling results have identifying one new Gold target and an open Copper with associated nickel anomaly which remains open to the SE with an extension program being scheduled to full defined this target prior to drill testing.
- **Calytrix Project:** 100% owned rare earth elements (REE) exploration project is located approximately 500 kilometres north of Perth and 40 kilometres southeast of the town of Yalgoo. An active exploration program for both hard rock hosted and clay hosted REE mineralisation is presently underway across the Calytrix project area.
- **Wild Viper Project:** 100% owned gold exploration project, located 70 kilometres north of Leonora, Western Australia, and incorporates the strategic land holding known as Wilsons Patch. The Company's Wild Viper Project is strategically located and surrounds Red5 Limited's (ASX; RED) Great Western Mine as well as being adjacent to Northern Star Resources Limited's (ASX: NST) Bundarra gold deposits.
- **Project Review:** Terrain Minerals Limited continues to investigate potential projects across various commodities including gold, copper, nickel, rare earth elements, and other industrial minerals. Western Australian based projects are the Company's current focus, but other parts of Australia are being seriously examined and considered as are other jurisdictions like Africa, Europe and the Americas.

## Authority

This announcement has been authorised for release by the Justin Virgin Director of Terrain Minerals Limited.

## Competent Person Statement:

The information in this report that relates to Exploration Results are based on information compiled by Mr. B. Bell, who is a Member of the Australian Institute of Geoscientists and is a consultant retained by Terrain Minerals Ltd. Mr Bell is a shareholder and options holder of Terrain Minerals Ltd. Mr Bell 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 of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Bell consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

## ASX Listing Rule 14.3

In accordance with ASX Listing Rule 14.3 and its Constitution, the Company advises that valid nominations for the position of director remain open throughout the year.

## Compliance Statement:

The Company notes that within the announcement all the information is referenced directly to the relevant original ASX market releases of that technical data.

Terrain would like to confirm to readers that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and, in the case of the 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.

**Disclaimer:**

Information included in this release constitutes forward looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward-looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue" and "guidance" or other similar words, and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licences and permits and diminishing quantities or grades of reserves, political and social risks, changes to the regulatory framework within which the company operates or may in the future operate environmental conditions including extreme weather conditions, staffing and litigation

Forward looking statements are based on the company and its management's assumptions made in good faith relating to the financial, market, regulatory and other relevant environments that exist and effect the company's business operations in the future. Readers are cautioned not to place undue reliance on forward looking statements.

Forward looking statements are only current and relevant for the date of issue. Subject to any continuing obligations under applicable law or any relevant stock exchange listing rules, in providing this information the company does not undertake any obligation to publicly update or revise any of the forward-looking statements or advise of any change in events, conditions or circumstances on which such statement is based.