



ASX RELEASE

6 December 2022

ABN: 45 116 153 514

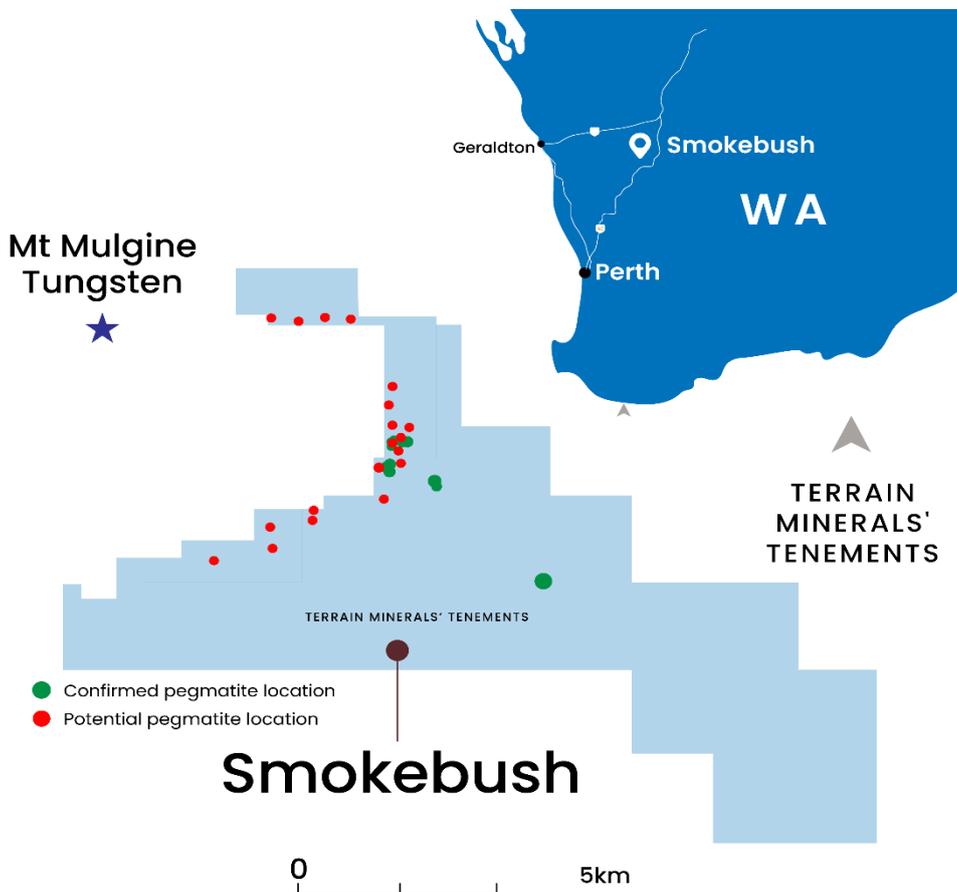
ASX: TMX

## Smokebush - Pegmatite Swarms Identified, Sampling for Lithium Mineralisation Underway

**Terrain Minerals Limited (ASX: TMX) (Terrain)** is very excited to announce that recent field mapping has identified up to twenty (20) pegmatites at the now 100% owned Smokebush gold exploration project.

Pegmatites are the preferred host lithology of lithium mineralisation across Western Australia (refer foot note 1). Terrains geological team are taking rock chip samples from these pegmatites which will be tested for lithium mineralisation (refer to diagram 1 & foot note 2). Assay results from this sampling program are anticipated to be received by Terrain in February 2023.

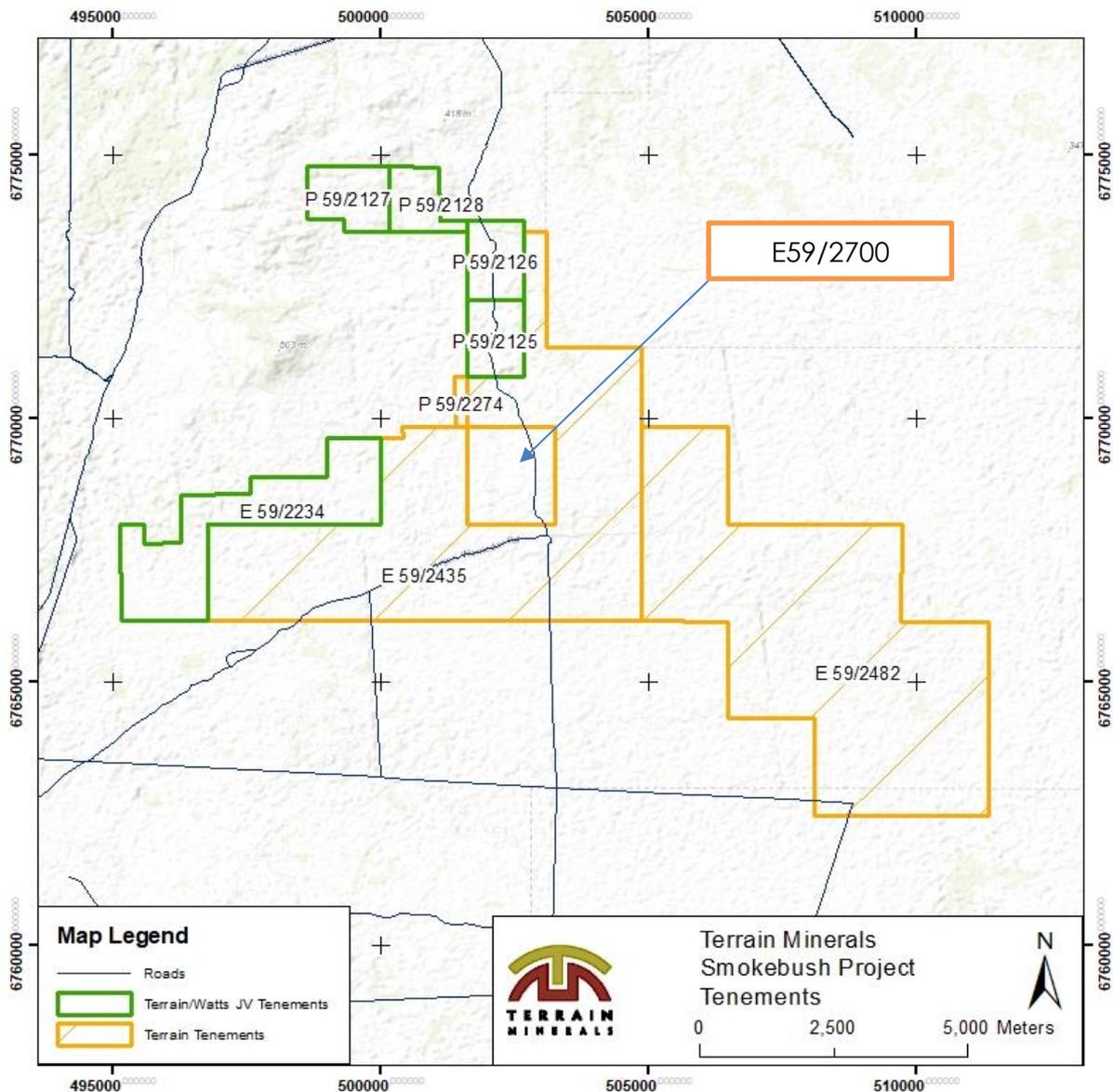
Terrain is encouraged that the Smokebush pegmatites are located within the so-called “goldilocks zone” being the distance between two and six kilometres from a granite intrusive (in this case, the Mt Mulgine granite intrusive (refer to diagram 3) immediately west of the Smokebush tenements), which is interpreted as being the most prospective zone within a pegmatite for lithium mineralisation (refer to foot note 3).



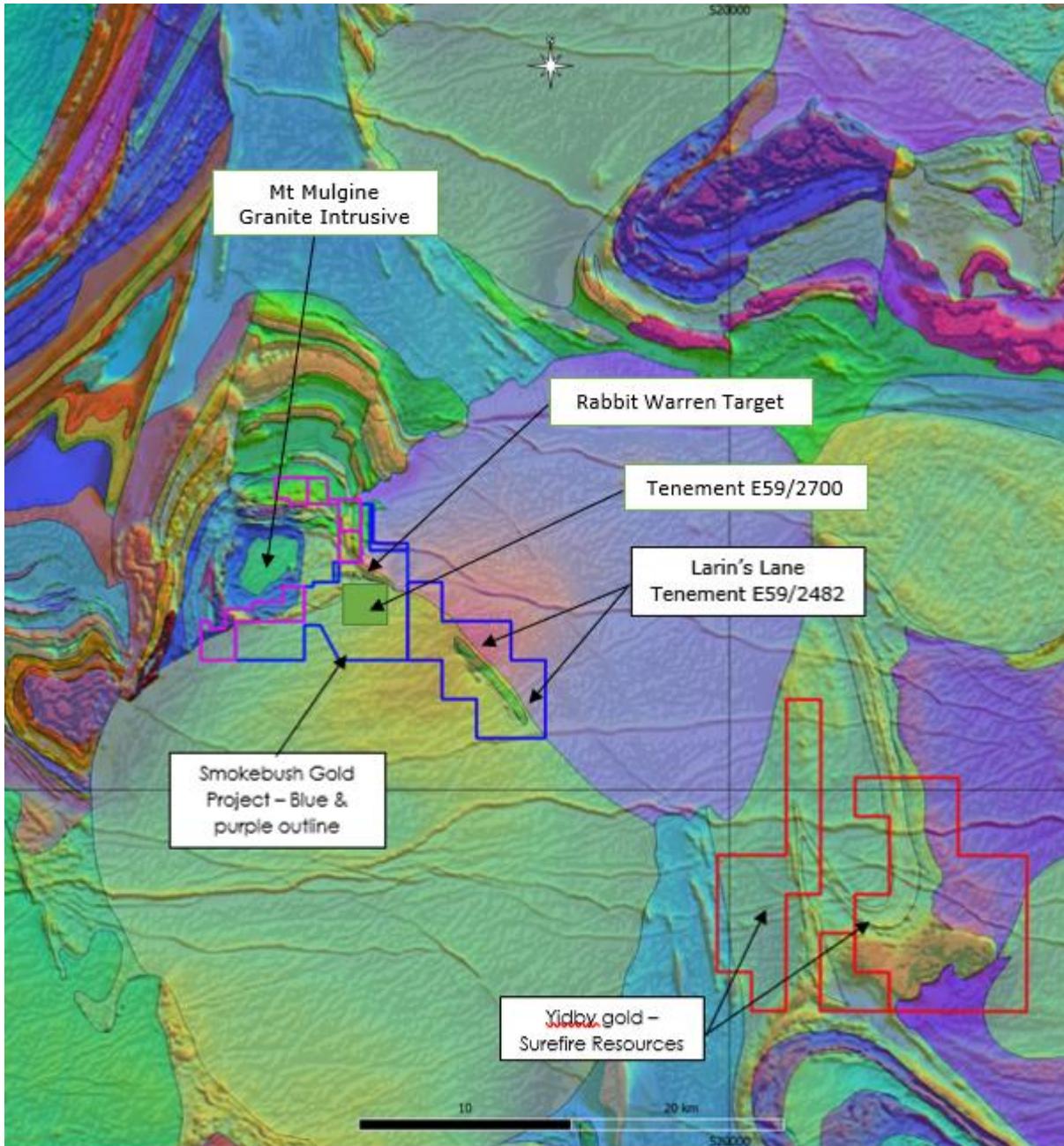
**Diagram 1:** Smokebush Project Location. Red and Green indicate location of known pegmatites.

**Foot Notes:**

- 1 – Refer to:** Two examples of pegmatite geology hosting lithium mineralisation within WA;
  - Red Dirt Metals Ltd (ASX: RDT) announcement on 8 April 2022
  - Global Lithium Resources Ltd (ASX: GL1) announcement on 1 August 2022
- 2 -** There is no guarantee that the pegmatites at Smokebush are mineralised for lithium.
- 3 - Refer to:**
  - Hannans Ltd (ASX: HNR) announcement of 17 October 2022 for further information on lithium "goldilocks zone".



**Diagram 2:** Smokebush Project Location (tenements outlined in Green are 100% held by Terrain (previously 80%) and tenements outlined in orange are 100% held by Terrain). E59/2700 was previously not owned by Terrain and is strategically situated along the structure that runs between Rabbit Warrens and down to Larin's Lane (refer to Diagram 3).



**Diagram 3:** Smokebush Project Location: The Mt Mulgine granite intrusive can be identified and shows that Terrain pegmatites are in the so-called Goldilocks zone for potential lithium mineralisation. The area also hosts Terrains new Larin's Lane gold target a ~4.5km long by 200-300m wide untested and undercover greenstone that is wedged between two granites. The total area is now 100% held by Terrain with E59/2700 tenement also included following the recent transaction that consolidated 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).

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 recently developed gold open pit mines (Minjar Gold Pty Ltd).

**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.
- **02 Dec 2022** - Acquisition Smokebush JV Tenement Now 100% Owned.

Justin Virgin  
Executive Director

### For further information, please contact:

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## **ABOUT TERRAIN MINERALS LIMITED:**

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

- **Investments:** As of the date of this announcement Terrain held 650,000 Red 5 Limited shares (ASX: RED) from the GW 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 (refer to above announcement). Cube Consulting has been appointed to ensure that all exploration drilling is compliant with JORC code.
- **Smokebush** - WA gold exploration Project Now 100% – Terrain has identified multiple drill targets along with several other prospective areas. Terrain executed its extraordinarily successful maiden RC drill program in August 2020, following up on historic drilling. The second phase of drilling has extended minerals a further 400m to 700m long and has also identified a new zone Monza Norths that appears to be on a different orientation. Further follow up work is also required over the 100% Rabbit Warren and Larin's Lane areas which will be the focus of the next exploration campaign. Paradise City & Wildflower is also of interest.
- **Wild-viper** - WA gold exploration Project 100% owned – which incorporates the strategic land holding known as Wilson Patch (WP). Wild-viper tenement package is strategically located and surrounds Red5 Ltd - Great Western Project (GW) as well as being adjacent to Saracen's (ASX: SAR) Bundarra gold deposits.
- **Calytrix Exploration Project** – Base metals and gold Exploration project, first pass filed exploration program was conducted and results are currently being assessed.
- **Project Review** - Terrain Minerals continues to investigate potential projects across various commodities including Gold, Copper, Nickel, and other industrial minerals, REE and the platinum group of metals in Australia and in other jurisdictions like Africa, Continental Europe, and the Americas.

## **Authority:**

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

## **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.

**| Terrain Minerals Limited | ASX:TMX | ABN 45 116 153 514 |**

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### **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.

### **Competent Person Statement:**

The information in this report that relates to the exploration activities are based on information compiled by Mr. S Nicholls, who is a Member of the Australian Institute of Geoscientists and full time employee of Apex Geoscience Australia Pty Ltd. Mr Nicholls 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. Nicholls consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.