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ASX: FNT

ASX Limited
Market Announcements Platform
28 January 2022

ACTIVITIES REPORT – QUARTER ENDED 31 DECEMBER 2021

- **Material acquisition of Rare Earth Elements (REE's) and High Purity Alumina (HPA) Projects with a focus on meeting the growing demand associated with the 'electrification' of world economies**
- **Gascoyne Rare Earth Elements Project exploring for light rare-earth oxide's of Neodymium (Nd_2O_3) and Praseodymium (Pr_6O_{11}) critical to the production of permanent magnets with demand set to increase 5x by 2030¹**
- **New discovery of Rare Earth Elements (REE) mineralised ironstone with maximum assay of 4800ppm Total Rare Earth Oxide's (TREO's) returned from sample GPR010 at outcropping ironstone, with a combined 1600ppm $\text{Nd}_2\text{O}_3 + \text{Pr}_6\text{O}_{11}$**
- **A detailed airborne magnetic-radiometric survey of 5,189 line kilometres flown over the entire tenement area in November 2021**
- **Frontier applied for additional tenure prospective for rare earths and lithium pegmatites in the eastern Gascoyne Province, with one exploration licence covering approximately 350km² at the Mt Clere Project**
- **Very large land position with limited historical exploration covering approximately 550km² of prospective Proterozoic Durlacher Supersuite lithology, host to the world-class Yangibana Deposit 27.42Mt @ 0.97% TREO²**
- **Gascoyne Projects applied for prior to regional land rush and recent discoveries by Dreadnought Resources of 12 high-grade REE prospects 15km southwest of Yangibana³**
- **A five-day site visit was completed on the prospective clay hosted rare earth element (REE) project in the Murray Basin, South Australia to help in planning a drill program along existing public roads**
- **A seven-week fieldwork program of mapping, rock chip sampling, soil sampling and trenching has been completed at the Taula Prospect (PNG)**
- **Assay results from the first batch of rock and trench samples along the Taula vein system include 1m @ 11.15g/t Au + 15.45g/t Ag within a broader mineralised zone of 8m @ 2.83g/t Au + 3.12g/t Ag**



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Frontier Resources Limited (**Frontier** or the **Company**) is pleased to provide its quarterly report for the three month period ending 31 December 2021.

Acquisition of Gascoyne Rare Earth Element, High Purity Alumina and Gold Projects, Western Australia

During the quarter the Company advised it had entered into a conditional agreement to acquire all of the shares in Dalkeith Capital Pty Ltd (**Dalkeith**) which holds two granted exploration licences in the Gascoyne Region of Western Australia that are considered to be prospective for REE's (**Gascoyne Project**), two granted exploration licences prospective for bright white kaolin and High Purity Alumina (**HPA**) located 460km east of Perth (**Koolya Project**) and one exploration licence application prospective for gold 50km east of Kalgoorlie (**Kalgoorlie Project**).

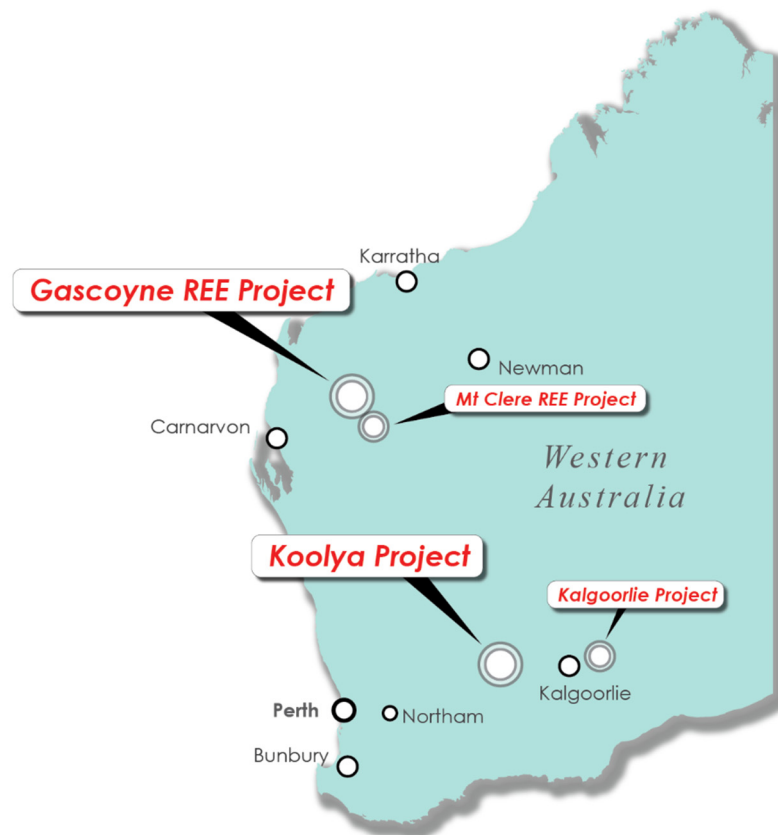


Figure 1. Location Map of the Projects in Western Australia.

The Gascoyne REE Project adjoins the world-class Yangibana Deposit (ASX.HAS ~A\$460 million market capitalisation) in the Gascoyne Region of Western Australia, set to be the next REE producer outside of China by 2023. The project area is also proximal to recent discoveries made by Dreadnought Resources at their Mangaroon Project located ~15kms southwest of the Yangibana REE Resource³ (ASX.DRE ~A\$104 million market capitalisation).

The REE-bearing Yangibana ironstones within the Durlacher Supersuite lithology were first targeted by prospectors in 1972 as base metal bearing gossans with the REE potential of the ironstones not assessed until 1985 and remained underexplored until Hastings Technology Metals (ASX.HAS) acquired the project in 2011. Hastings has since delineated a world-class JORC 2012 Mineral Resource² of 27.42Mt @ 0.97% TREO with 0.33% Nd₂O₃+Pr₆O₁₁ and a ratio of 52% Nd Pr:TREO making it one of the highest value REE projects for ore value per kg.



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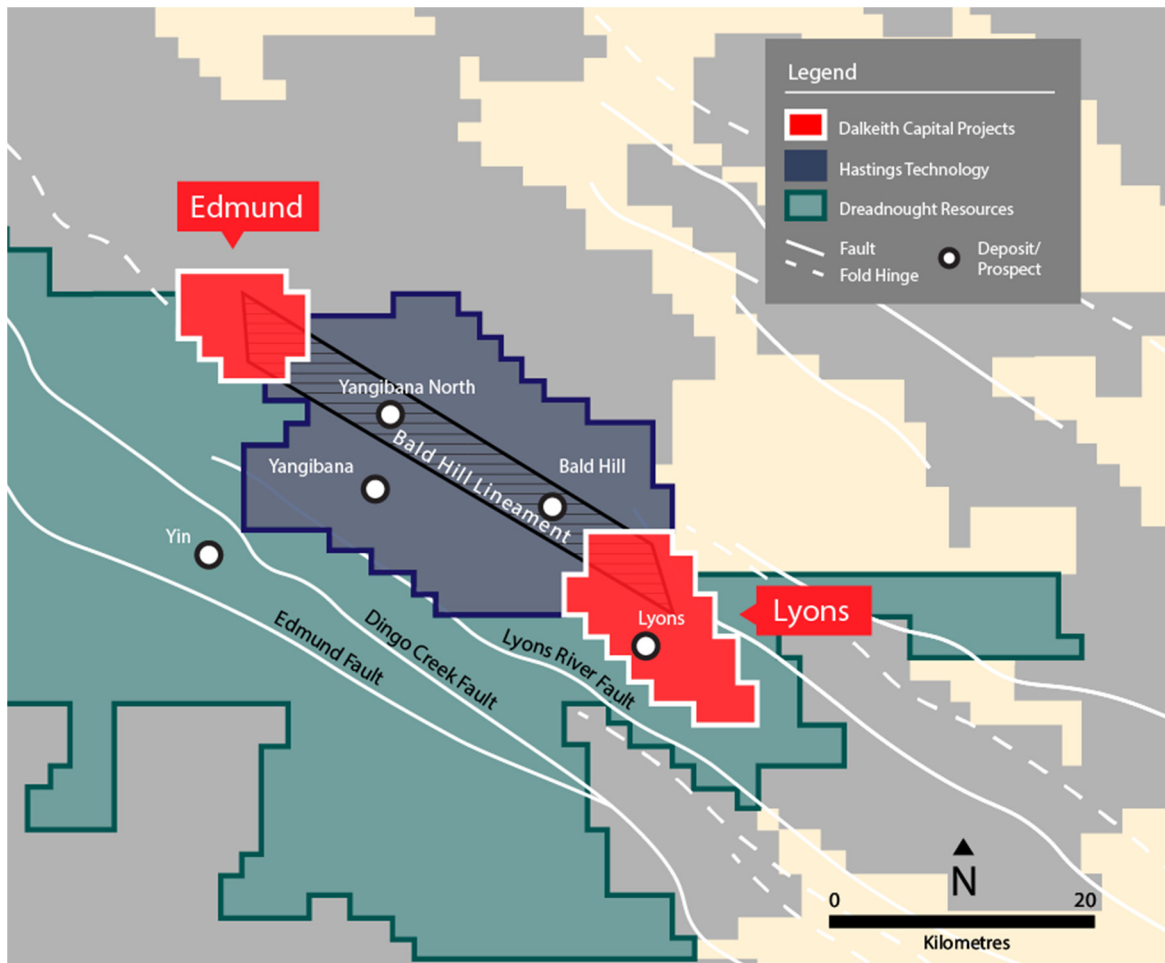


Figure 2. Location Map of the Edmund and Lyons tenements which make up the Gascoyne Project in Western Australia.

Despite the region’s prospectivity for REE’s, very limited exploration has been undertaken at the Gascoyne Project, in part due to shallow alluvial cover which has led to the area being overlooked historically. The southeastern Lyons tenement E09/2515 has small areas of outcrop, near the historic copper prospect Tabletop Well⁴ occurrence.

With the use of modern exploration techniques and a renewed focus on REE's there is an exciting opportunity for the discovery of economic REE mineralisation. A detailed airborne magnetic-radiometric survey consisting of 5,189 line kilometres was flown over the entire 230km² project area in November 2021. Southern Geoscience Consultants (SGC) are currently processing and reviewing the radiometric and magnetic geophysical data to assist with planning of exploration programs for 2022. The final report by SGC is expected to be completed late January with a focus on priority anomalies and drill target ranking.

Access into the project area is very good with a combination of well-maintained gazetted and station roads located on Edmund and Wanna Pastoral Leases which will greatly assist exploration work programs. A field crew will be mobilised to site for further reconnaissance geological mapping and rock-chip sampling in Q1 2022.



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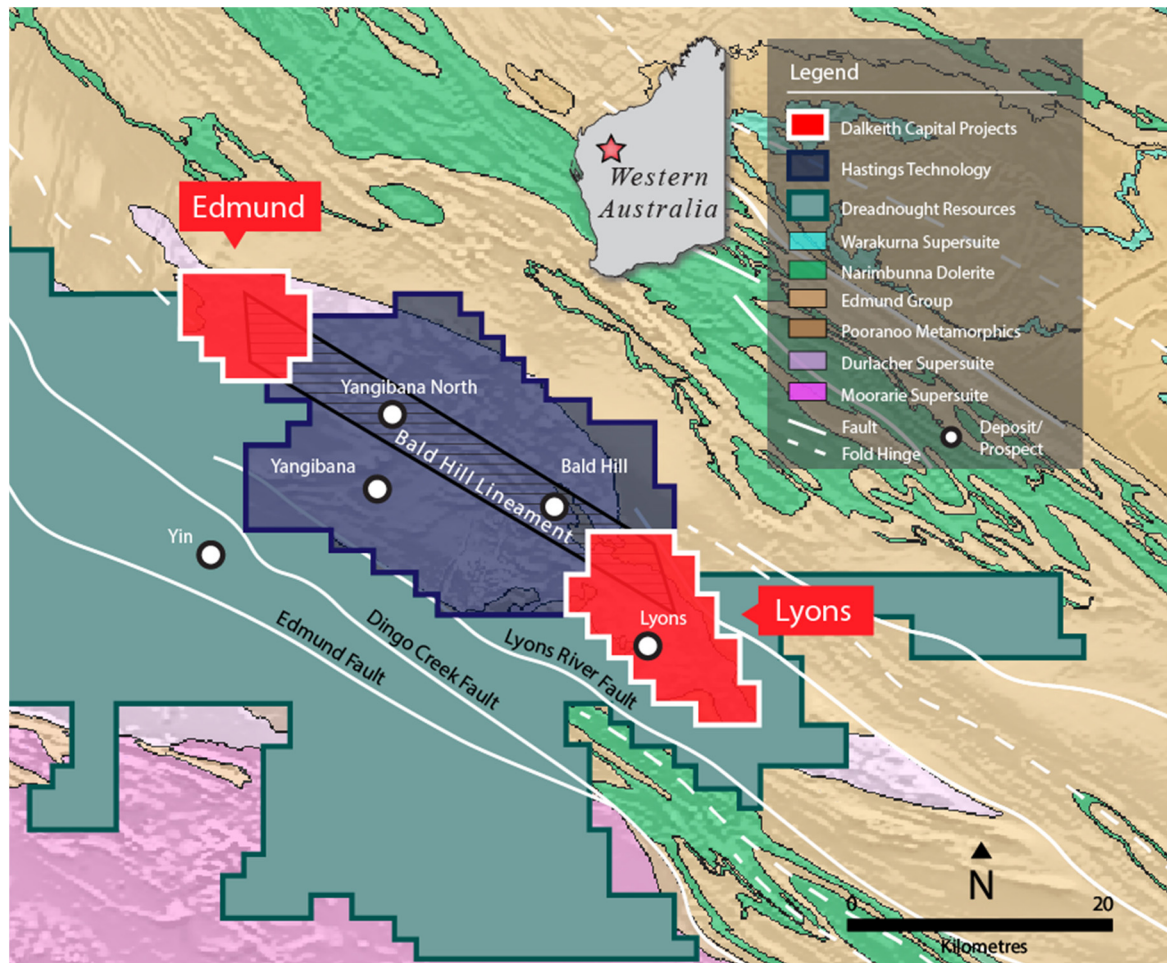


Figure 3. Geology and Tenement Map of the Gascoyne Rare Earth Projects in Western Australia.

New Rare Earth Discovery with Encouraging First Pass Rock Chip Results at Gascoyne Project

During the quarter the Company announced the assay results from a reconnaissance rock chip sampling program completed at the Gascoyne Project, with assay results confirming the presence of rare earth oxide mineralisation in the outcropping mineralised ironstone. The ongoing desktop review of the project area by the Frontier technical consultant Tom Langley also focussed on Geoscience Australia’s Capricorn Regional Electromagnetic Survey which provided further encouraging findings with the interpretation that the Gifford Creek Carbonatite Complex underlies part of the Gascoyne Project area.

Frontier will undertake further sampling at the mineralised ironstone with the aim of finding higher grade along the strike of the outcrop. Further heli-supported field reconnaissance and sampling programs across the areas not yet covered will be conducted as soon as possible to validate the potential of rare earth elements mineralisation within the Gascoyne and Mt Clere project areas. Follow up exploration will depend on the results of these initial work programs and interpretation of the recently flown magnetic-radiometric data, prior to drilling programs being undertaken in Q2, 2022.



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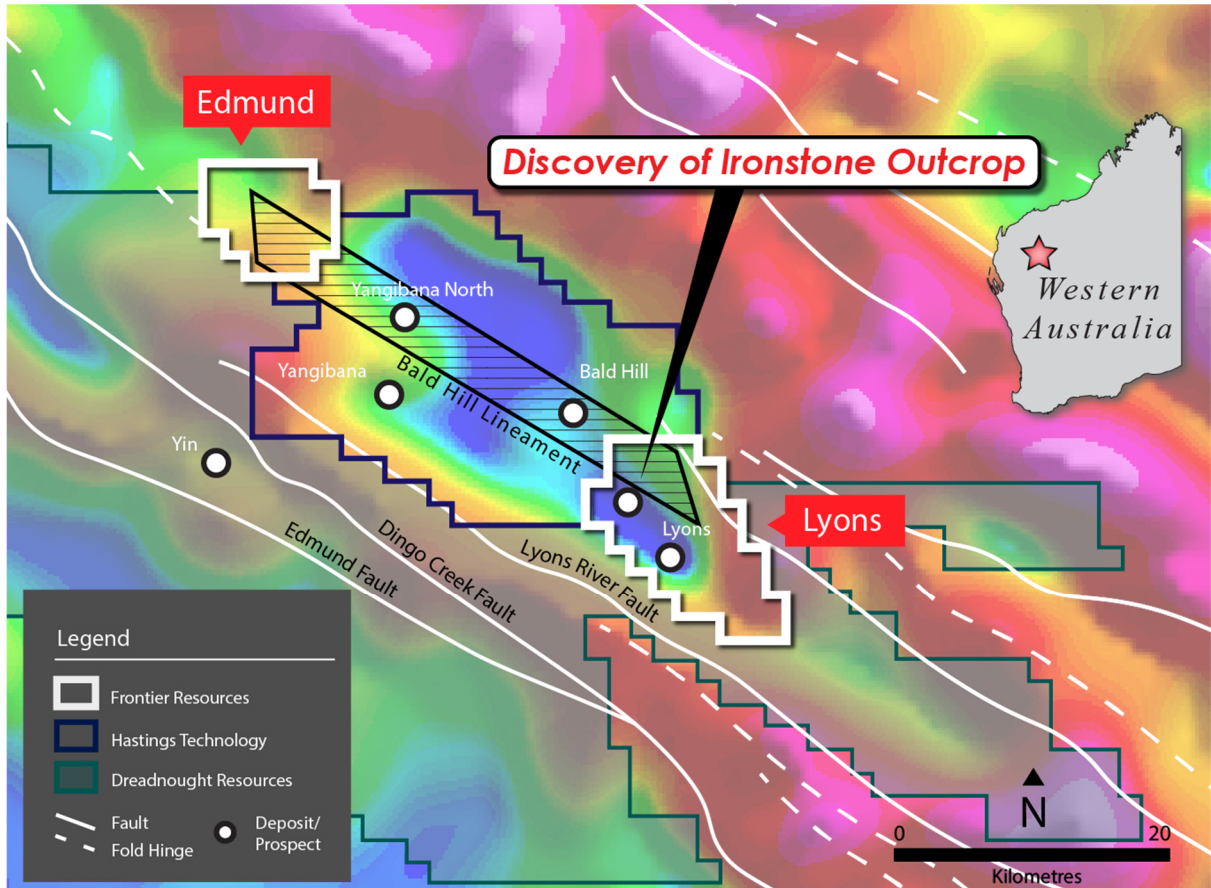


Figure 4. Gascoyne Project overlay with Geoscience Australia AEM image highlighting the conductive low associated with the Gifford Creek Carbonatite Complex. Image accessed via Geoscience Australia website.

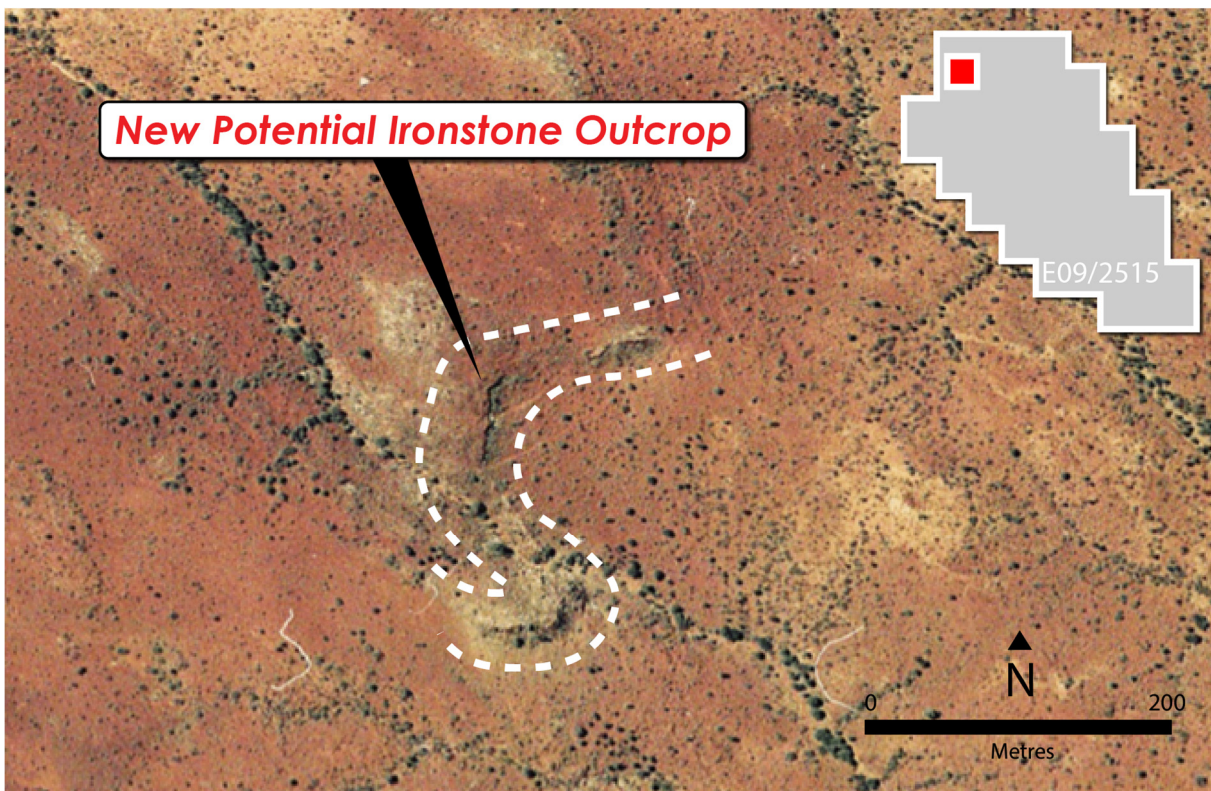


Figure 5. New area of interest for follow up not yet sampled which may be a potential outcropping ferro-carbonatite.



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Gascoyne Project Airborne Magnetic-Radiometric Survey Completed

In November 2021 Frontier completed a 5,189 line-kilometre airborne magnetic–radiometric survey at the Gascoyne REE Project covering 230km². The survey was flown over the recently discovered outcropping REE ironstone and seeks to identify further prospective ironstones outcropping or under shallow cover. Southern Geoscience Consultants (SGC) were appointed to process and review the geophysical data to assist with planning of exploration programs for 2022. A final report by SGC is expected to be completed late January Q1, 2022 with a focus on priority anomalies and drill target ranking.

Both tenements at the Gascoyne Rare Earth Project were granted in December 2021, clearing the way for Program of Works (PoW) to be submitted for maiden drill program in Q2, 2022

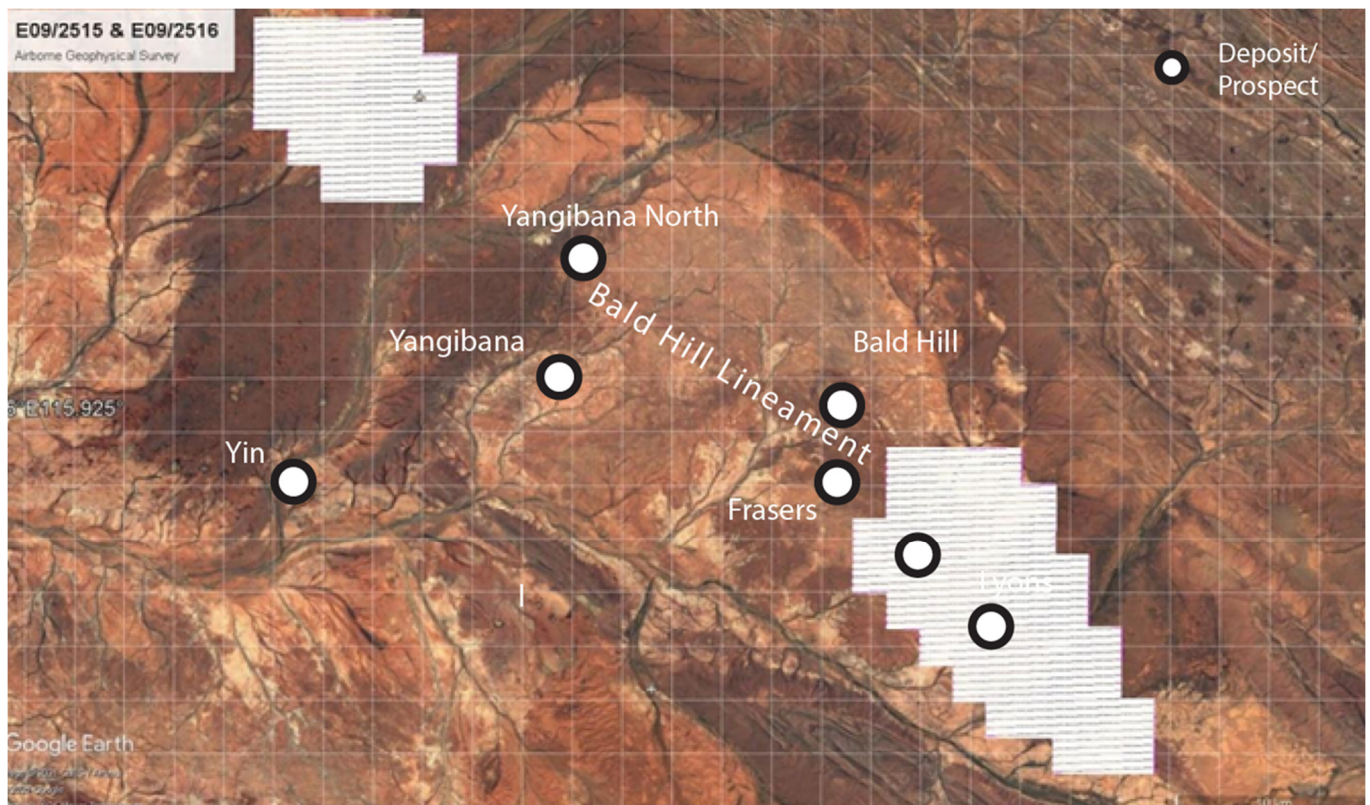


Figure 6. Magnetic-Radiometric Geophysical survey area, with planned 50m flight line spacing with a sensor height of 30m.

New Rare Earth & Lithium Pegmatite Exploration Project

During the quarter the Company advised of the strategic application for the Mt Clere Project consisting of one exploration licence application E52/4012 in the Gascoyne Region of Western Australia, considered to be prospective for REE's and lithium pegmatites (**Mt Clere Project**).



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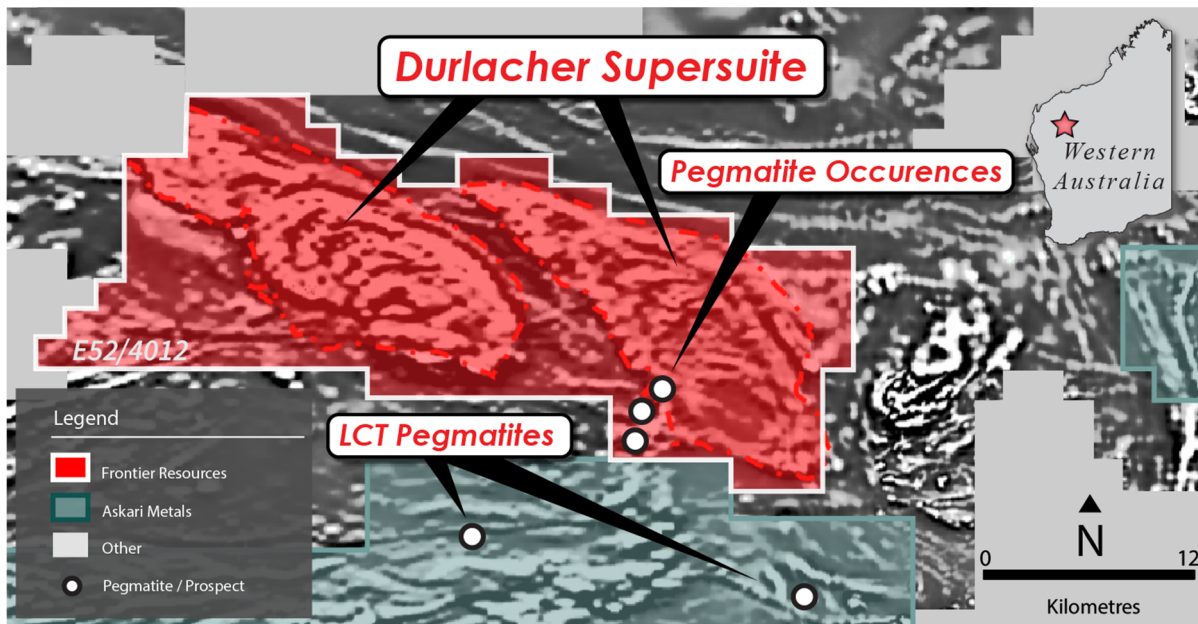


Figure 7. Mt Clere Project covering ~350km² of Durlacher Supersuite prospective for rare earths and lithium bearing pegmatites.

Frontier will commence a field reconnaissance program as soon as possible designed to identify and validate the potential of rare earth elements and lithium mineralisation within the Mt Clere project area. Follow on exploration will depend on the results of this initial work program but are expected to include a detailed and systematic exploration program comprising of a combination of soil geochemical sampling, rock sampling and geophysical surveys across the high priority target areas, prior to drilling programs being undertaken.

Murraydium Project Drillhole Planning, South Australia

A five-day site visit was completed on the prospective clay hosted rare earth element (REE) project in the Murray Basin, South Australia to help in the selection of drill sites for a first pass Aircore drilling program along existing public roads. Exploration PEPR's (Programs for Environmental Protection and Rehabilitation) are being completed together with necessary Notice of Entry Permits to be ready for lodgement once tenements have been granted.

The Murraydium Project is located in the south-eastern region of Naracoorte in South Australia's Murray Basin, consisting of four exploration licence applications (ELA 2021/00058), covering an area of 873km², owned 100% by Southern Rare Earths (SRE) recently acquired by Frontier (Figure 8).

Frontier is in regular communication with the South Australian Department of Energy and Mining in relation to the granting of ELA2021/00058 – Murraydium. It is anticipated that the tenement will be granted early 2022.



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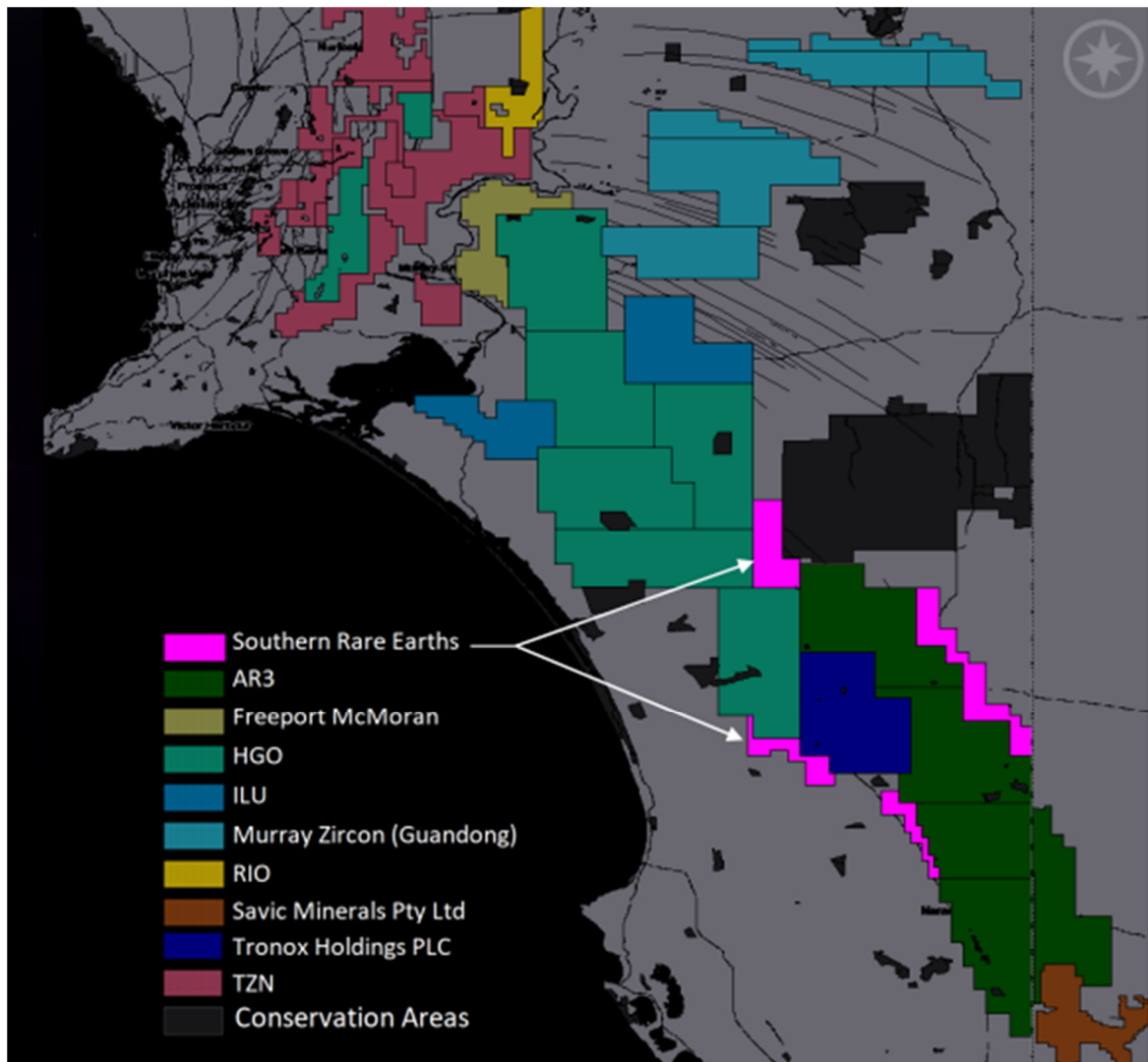


Figure 8. Southern Rare Earths Tenements, South Australia.

The Company’s focus on REE’s (Rare Earth Elements) is directly in line with global push for carbon neutrality driven by renewable energy (particularly wind turbine) installations and Electric Vehicle adoption driving global demand for the combination of rare earths.

A total of 307 drill sites along existing roads have been sited, subject to budget approvals by the board, for an initial drilling program to test for rare earth elements within the four tenement blocks Naracoorte, Bordertown, Jip Jip and Keith (Figure 9).

South Australian exploration licence holders have statutory requirements including the identification of relevant environmental, social and economic impacts and obtain relevant approvals prior to undertaking exploration activities. Frontier has engaged a tenement consulting specialist to assist in completing the PEPR and council permits to be ready for lodgement once tenements have been granted.

The project area forms part of an extensive Tertiary strand plain comprising a series of sandstone-dominant fluvial and beach-dune strand complexes. The sand units commonly form undulating sand ridges interspersed with low lying areas of clay, mud and sand. The ASX listed Australian Rare Earths Limited (AR3) REE-bearing clays occur within the lower part of the Loxton-Parilla Sand unit which covers an extensive area of the SW Murray Basin in eastern South Australia. This is Frontier’s main exploration target.



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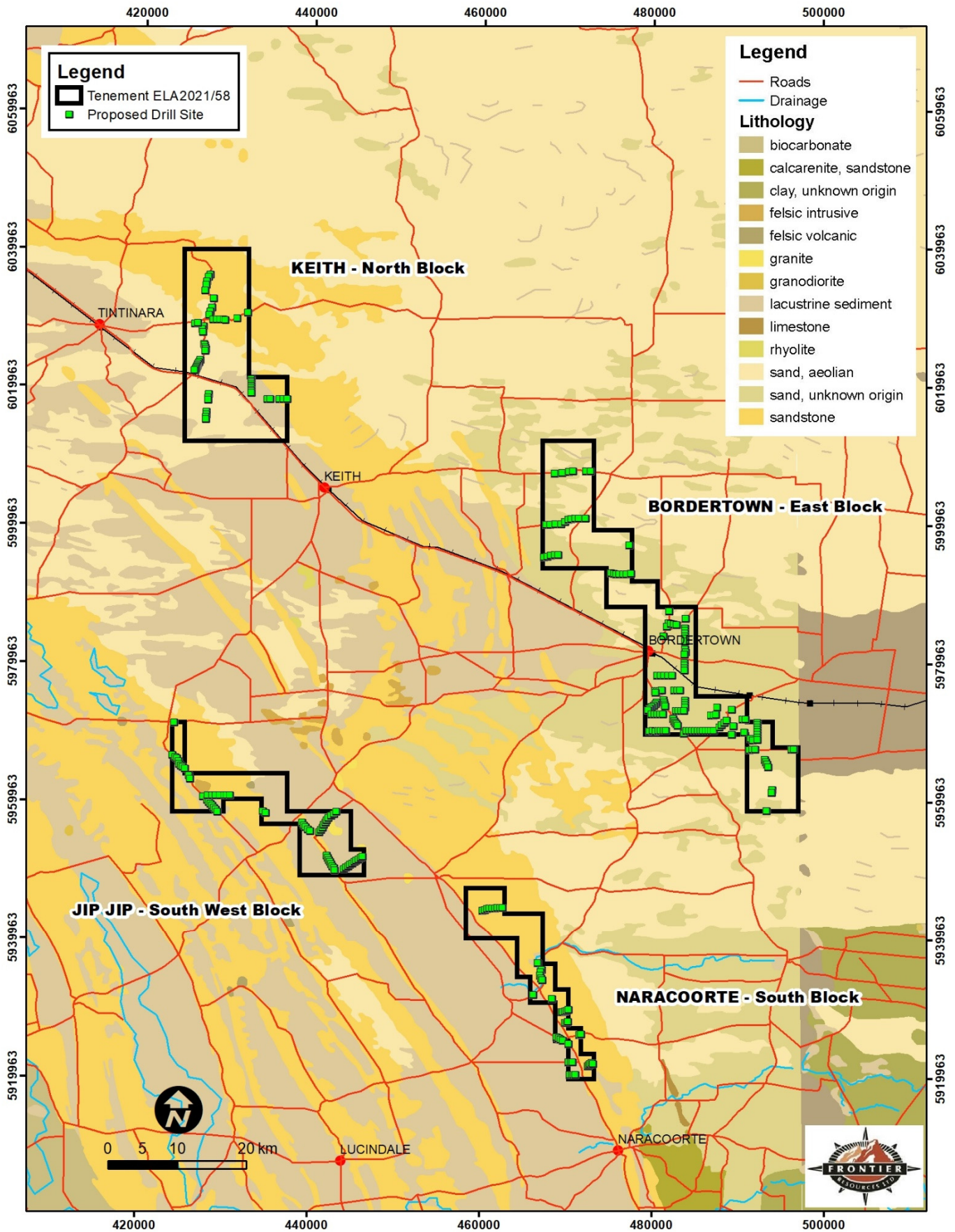


Figure 9: Southern Rare Earths Tenements Showing Proposed Drill Sites.



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Koolya High Purity Alumina Project

The Koolya High Purity Alumina Project which covers 240km² prospective for bright white kaolin and High Purity Alumina (HPA) located 460km east of Perth. The region is a proven high quality kaolin producing region with Tellus Holdings Sandy Ridge kaolin mine 30km away to the northeast and Kula Gold's (ASX.KGD) recent discovery 80km south⁵.

The Sandy Ridge open pit mine is very high-grade with an ISO Brightness of 84-86% (Optical Unfired), up to 36m thick and an initial 25 year mine life⁶.

Kaolin is a platy white clay derived from the mineral Kaolinite formed by hydrothermal weathering of igneous rock such as granite. Whilst it is a common mineral, it rarely occurs in large high-grade and low impurity deposits. Kaolin deposits with low impurities are an optimal feedstock for High Purity Alumina (HPA) production via the direct synthesis of HPA 4N and 5N from kaolin ore.

The market for HPA is witnessing dramatic consumer driven growth⁷, with the HPA market forecast to be US\$4.49Bn by 2022⁸. HPA growth has been invigorated in response to global investment in new applications and technologies such as electric vehicles (EV), static energy storage sector and LED lighting have created increased demand and market opportunities.

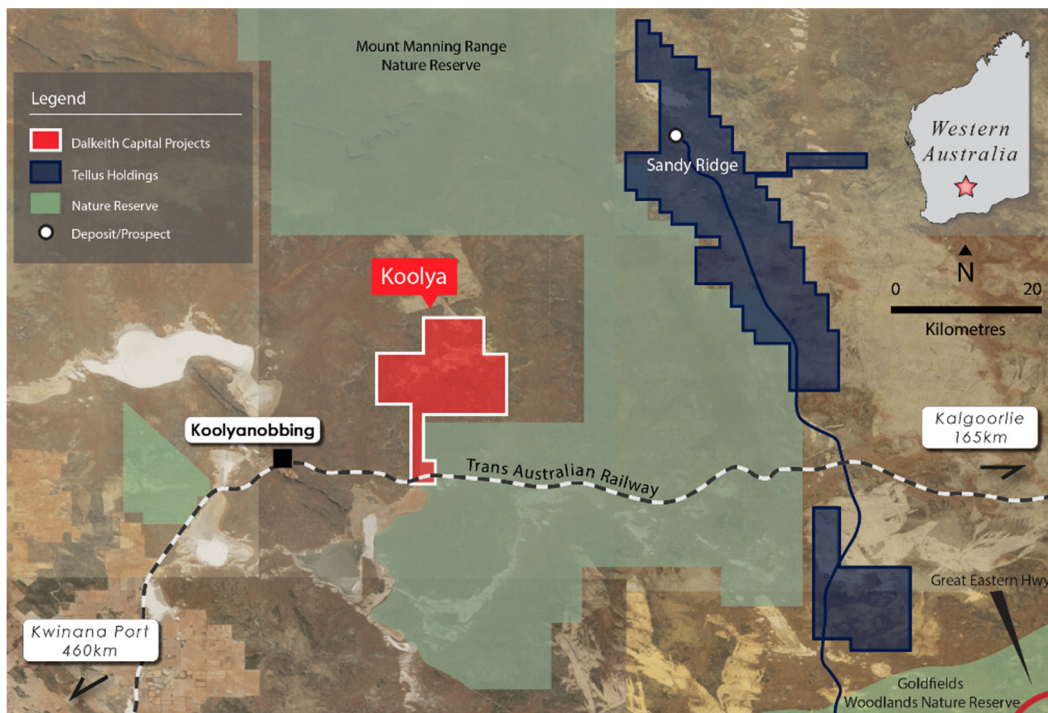


Figure 10. Location Map of the Koolya Project in Western Australia.

Koolya is a drill ready project with reconnaissance drilling to be undertaken immediately on grant of PoW's to investigate the depth, thickness, ISO brightness, mineralogy, and alumina content over the project area. The tenure is highly supportive of a large-scale development, with no competing land ownership of Pastoral Lease or freehold farmland minimising barriers and costs of development compared to other ASX-listed projects. In the event of a potential development of a mine, there is excellent infrastructure with the Trans Australian Railway adjoining the project, allowing for increased economies of scale via bulk transport of up to 5,000t per train movement.

SEM imaging and metallurgy studies will be completed on drill samples to confirm the qualitative nature of alumina content and Halloysite, if present.



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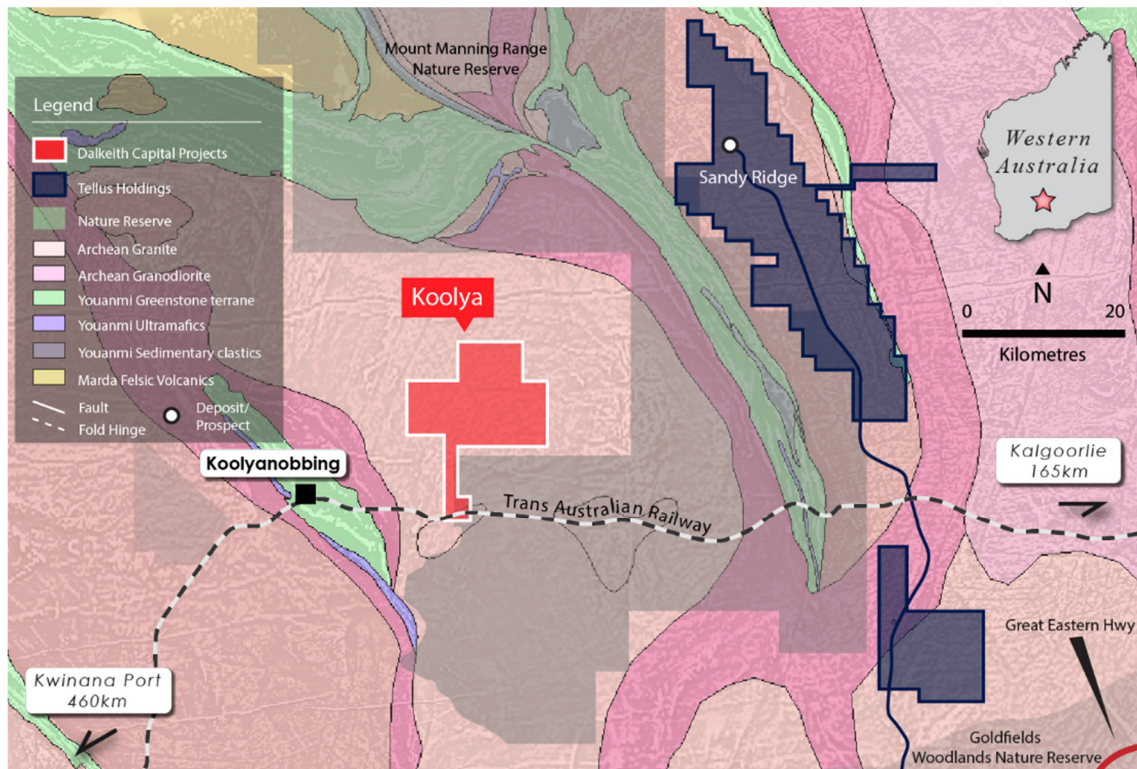


Figure 11. Geology Map of the Koolya Project in Western Australia.

Kalgoorlie Project

The Kalgoorlie Project consists of one exploration tenement application E 27/648, which is located 50km east of Kalgoorlie, 5km southwest of the Jubilee Mining Centre and 6km northeast of the Queen Lapage Mining Centre. Initial exploration work will focus on the site of historic prospecting activity that covers the now surrendered lease P 27/2131. An extensive geochemical sampling program is planned to cover the entire tenement upon tenement grant, with Air Core drilling to follow pending positive results.

Papua New Guinea (PNG) Taula Prospect Exploration

During the quarter the Company announced the completion of an exploration program at the Taula prospect adjacent to the Tolukuma gold mine in Papua New Guinea. The Taula prospect was discovered in 1987 by Newmont (Figure 12).

Frontier geologists have mapped the Taula Vein (Figure 11) as sub-parallel to both the Gulbadi and Tolukuma structures within the adjacent mining lease ML104 which form part of the Tolukuma minesite. The interpreted extensions of these structures into Frontier’s EL 2531 now have enhanced the exploration potential. The Tolukuma extension is underlain by a chargeability anomaly which remains a separate sub-surface target zone. The proximity to the Tolukuma mine makes the Taula prospect area a **high priority**.

Historical results along the Taula Vein (refer to ASX Announcement dated 5 September 2019) include:

- Rock chip assays of **118 g/t, 66.6 g/t & 42.9 g/t Au**
- Trench assays of **1.2m @ 1,041.2 g/t Au** and **1.0m @ 80.5 g/t Au**
- Drillhole assays of **3.0m @ 16.19 g/t Au from 23m depth** and **5.3m @ 7.19 g/t Au from 37.6m depth**

A total of **17** hand dug trenches were completed (Figure 13) during the Taula exploration program (TT001 to TT016) for a total of **630.70** meters with **249** channel samples taken. In addition, **56** rock samples (51 outcrop, 5 float) were collected during the mapping/trenching program. Three ridge and spur soil lines were cut over



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the historical IP anomaly totaling **1,000 line metres** with a total of **50** soil samples collected at a sampling interval of 20 meters (Figure 14).

The mineralisation at Taula is associated with a high level multi-phase intrusive stock, composed of microdiorite, diorite, quartz diorite and feldspar porphyry, which intrudes a sequence of andesitic volcanics, predominantly tuffs. The Taula Vein has been traced for over 750 metres, hosted almost entirely within the intrusive body (Figure 13).

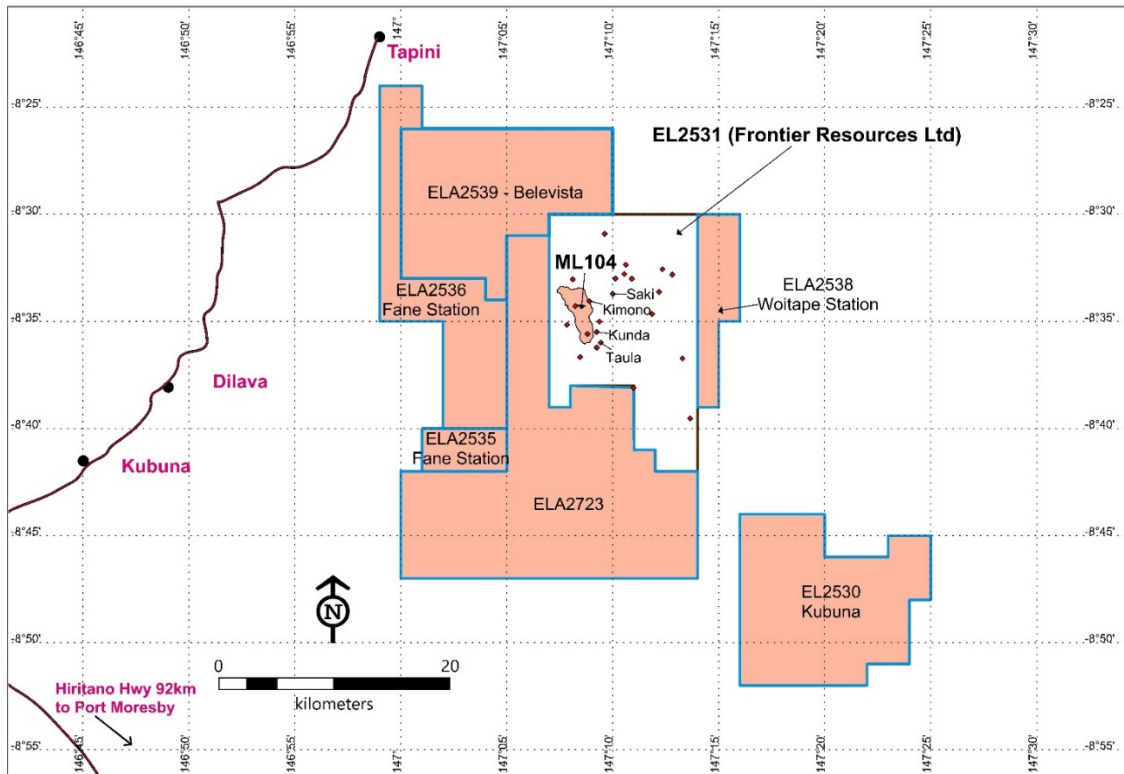


Figure 12: Frontier Gold Prospects Nearby Tolukuma Mine (ML104) and Associated EL's.



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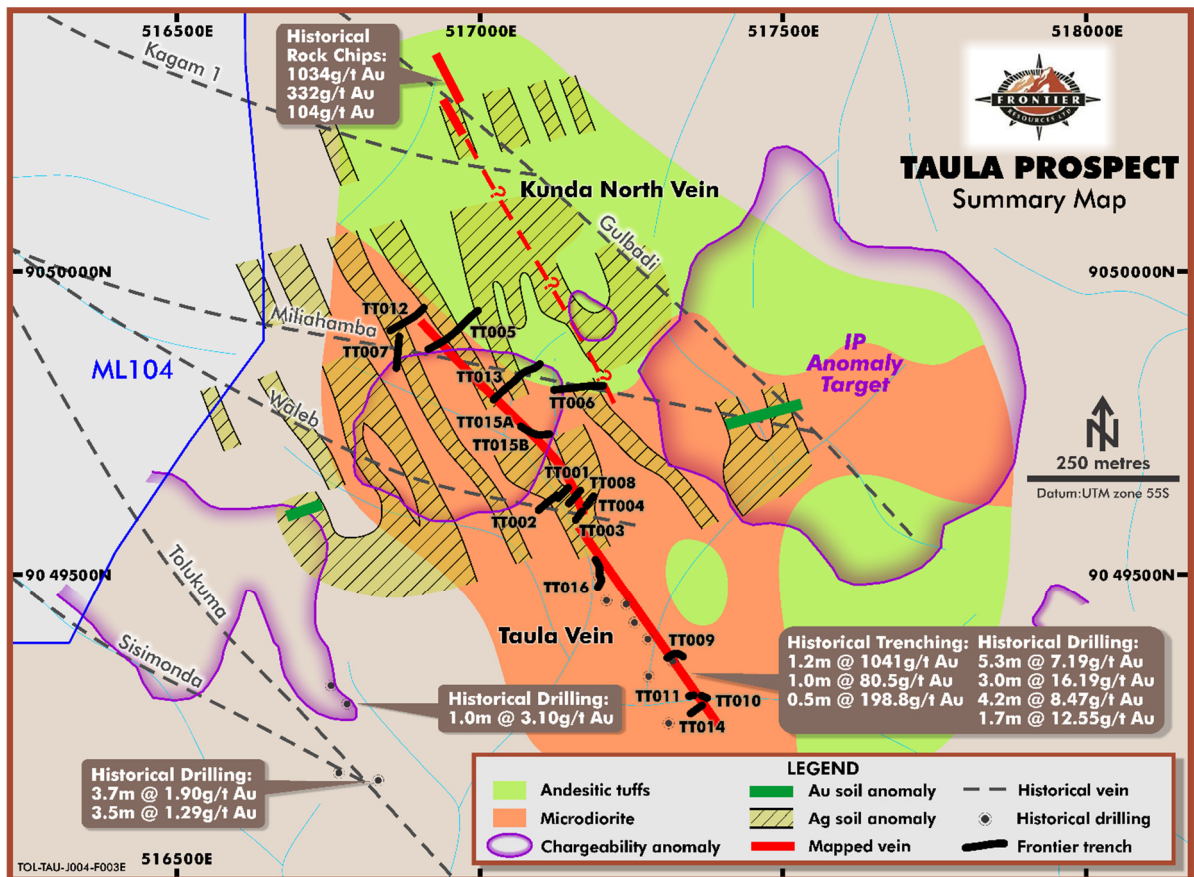


Figure 13: Taula Prospect Geology and Trench Sampling Locations.

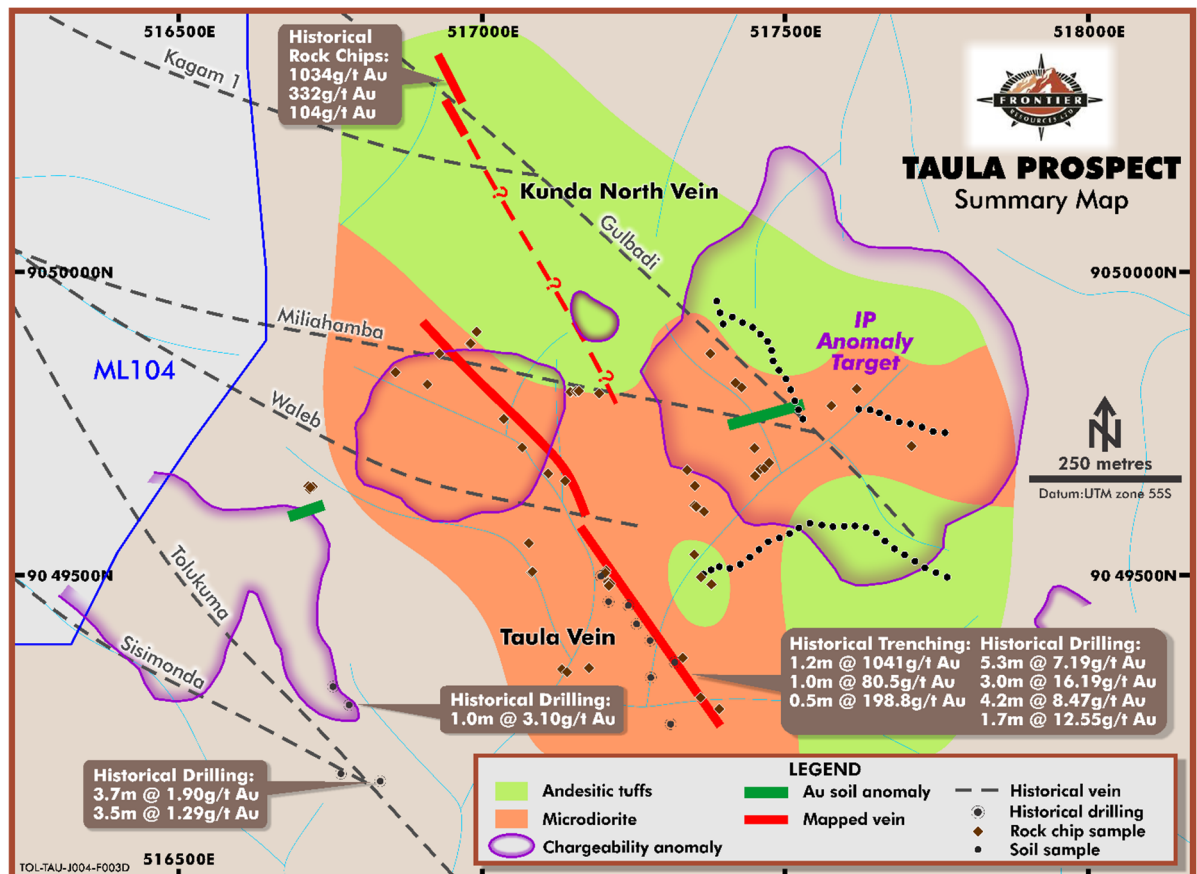


Figure 14: Taula Prospect Geology, Rock Chip and Soil Sampling Locations.



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The presence of intrusive rocks at Taula has not been previously reported and continues the trend of Frontier finding intrusive rocks associated with the mineralised veins at Saki and Kimono.

The Taula vein occurs as a 1m to 8m wide structure comprising sheeted 20cm to 1.0m wide pinch and swell, massive and sheared-brecciated quartz-sulphide-manganese-limonite veins, which trends NNW to NW and dips steeply to the SW. Brecciated quartz fragments occur in between the sheeted parallel veins such as in Trench TT009.

The Taula vein (Figure 15) is offset in places by cross cutting WNW structures including the Waleb Vein, and minor discontinuous parallel veins exist in the vicinity away from the structure. Porphyry style quartz stockwork with specular hematite has been observed to the northwest of the Taula Vein, and porphyry-style quartz-limonite-MnO stockwork in intrusive is reported from Trenches 7 and 12.

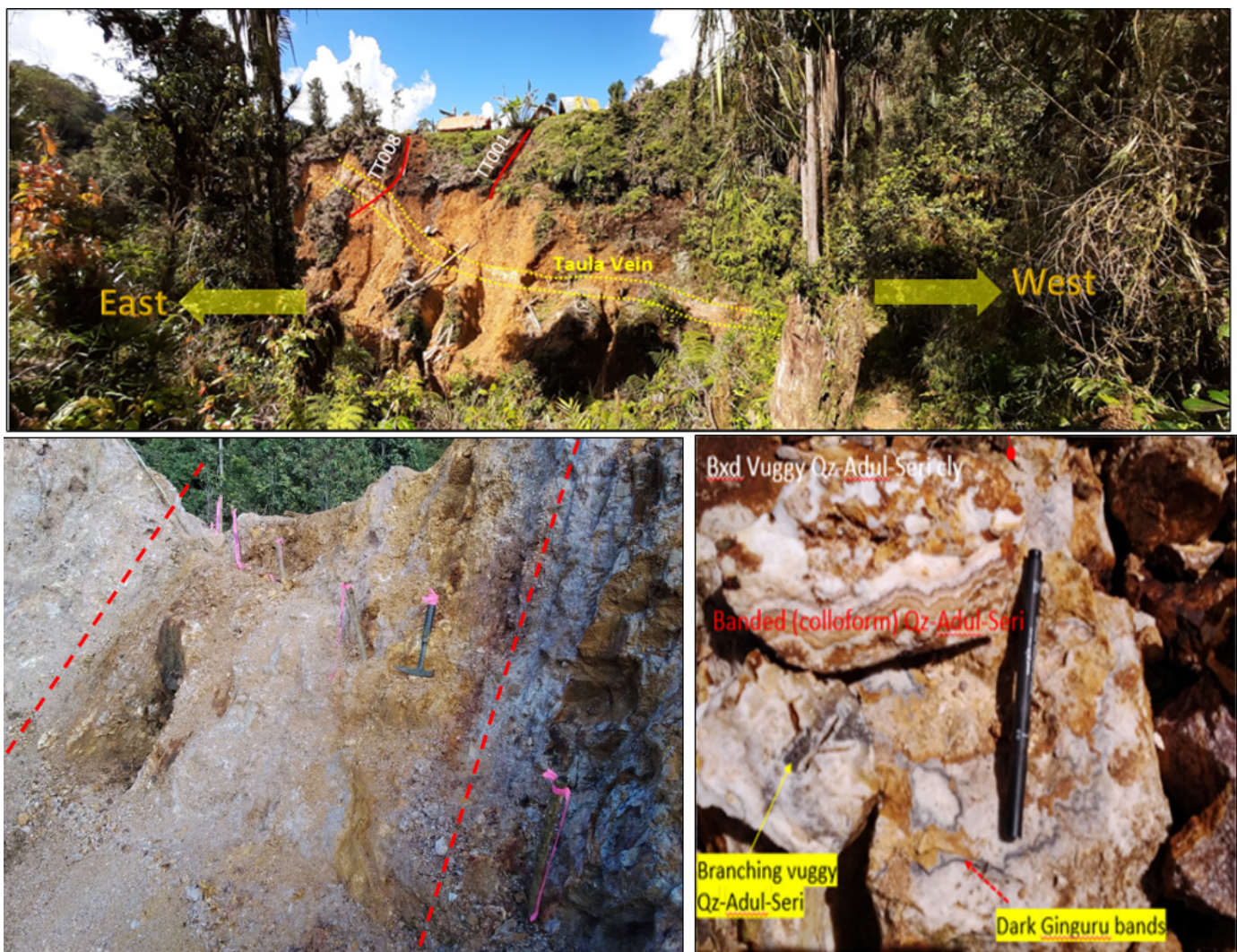


Figure 15: Top - Taula Vein Exposure at Trenches TT001 and TT008. Bottom Left - 4m Wide Taula Structure in Trench TT09. Bottom Right - Taula Vein Textures

Subsequent to the quarter end on 5 January 2022 the Company announced the results from the first of two batches of assay results from samples taken at Taula.

A total of **17** hand trenches were dug (Figure 16) with at total **248** channel samples taken along with **56** rock samples and **50** soil samples. Results from the first 129 samples taken from 9 trenches include:



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- **1m @ 11.15g/t Au + 15.45g/t Ag** within a broader mineralised zone of **8m @ 2.83g/t Au + 3.12g/t Ag** within trench TT09 consisting of shearing, brecciation and quartz veins.
- **1m @ 2.08g/t Au and 167g/t Ag** from trench TT11 where two zone of silicified crackle breccia and quartz sulphide veins were mapped.

Results from the first 18 rock samples received include:

- **7.05g/t Au**, 2.28g/t Au, 2.06g/t Au, 1.85g/t Au + 184g/t Ag, 0.59g/t Au.

These initial results confirm the gold and silver mineralisation at surface along at least a 750 metres strike length. The Taula vein was initially discovered by Newmont prior to the commencement of the adjacent Tolukuma mine. Historical drilling at Taula totals 1,315.75 metres in 18 diamond holes (refer to ASX Announcement dated 5 September 2019). The drilling intersected 5 depth levels of mineralised veining with grades including:

- **3.0m @ 16.19g/t Au** from 23m downhole depth in hole SSD003.
- **5.3m @ 7.19g/t Au** from 37.6m downhole depth in hole SSD008.
- **1.7m @ 12.55g/t Au** from 31.1m downhole depth in hole SSD010.
- **5.3m @ 8.47g/t Au** from 66m downhole depth in hole SSD011.

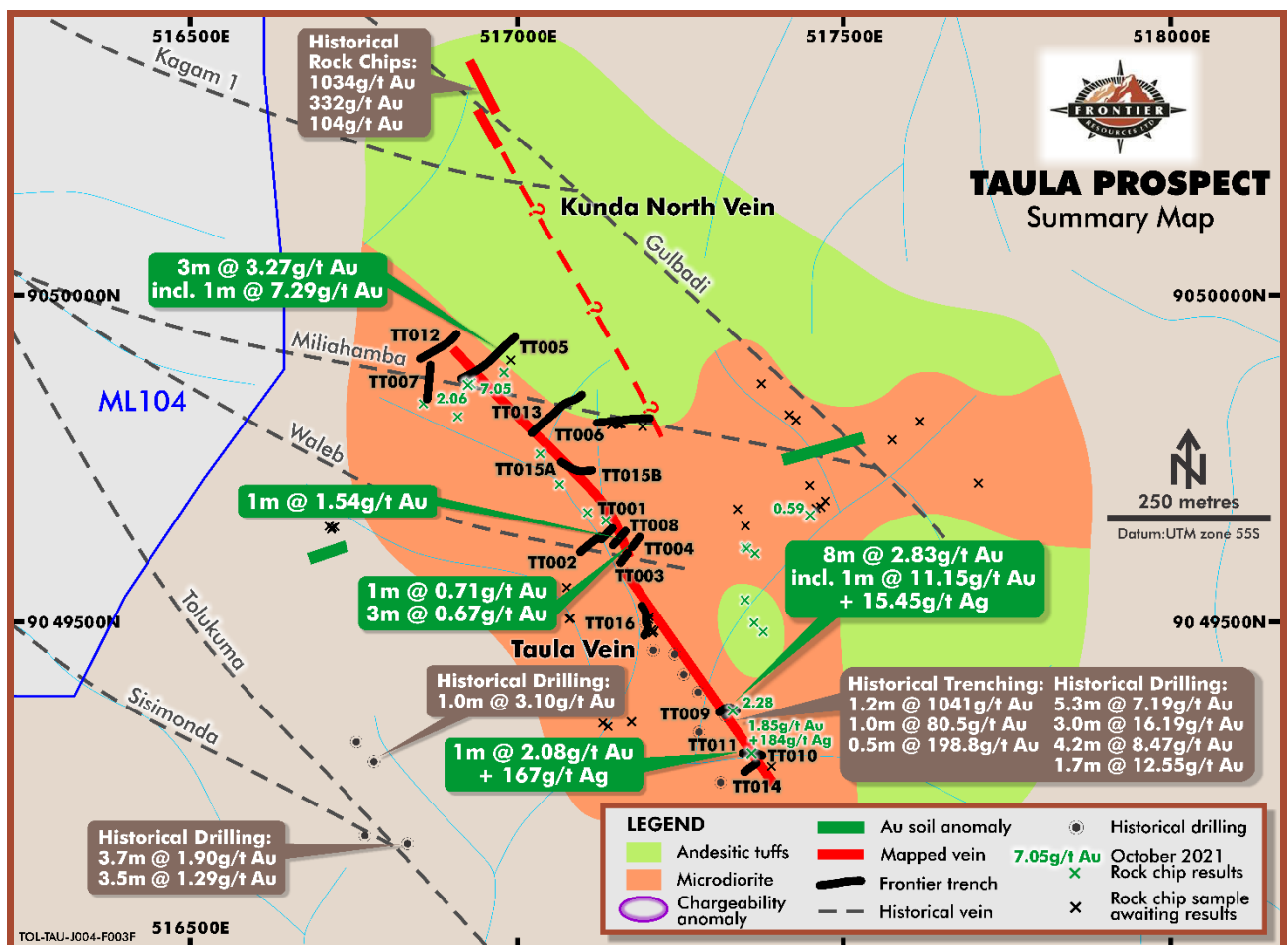


Figure 16: Taula Prospect Trench and Rock Sample Highlights.

The Taula vein occurs as a 1m to 8m wide structure, comprising sheeted 20cm to 1.0m wide pinch and swell, massive and sheared-brecciated quartz-sulphide-manganese-limonite veins, which trends NNW to NW and dips steeply to the SW. Brecciated quartz fragments occur in between the sheeted parallel veins such as noted in Trench TT009 (Figure 17).



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Figure 17: Taula Structure at Trench TT009 with 8m @ 2.83g/t Au including 1m @ 11.15g/t Au.

The final batch of 119 trench and 38 rock samples are currently being processed by ALS laboratories. Results will be used to help confirm the continuity of mineralisation along the Taula vein to assist in determining drill hole locations with an aim to extend known mineralisation at depth.

Drill hole sites are also being planned at the Kimono and Saki prospects. Assays from the final 23 hand dug trenches and final 18 rock samples taken along the Saki III vein system have been received. Results confirm the high-grade nature of the Saki III swarm of veins which can be traced over 800 metres in length and over a 100m wide zone.

Results include **1m @ 128.5g/t Au + 94g/t Ag** in Trench 18 and **1m @ 115g/t Au + 54.1g/t Ag** in Trench 27, a further 400m to the northwest along the Saki III set of veins (Figure 18). Rock sample results include **23.5 and 19.35g/t Au** taken from Degom Creek and **23.2g/t Au** taken a further 320m to the northwest along Geseva Creek. The sampling program by Frontier has verified the high-grade nature of gold along the Saki I, II and III system of veins and better define vein continuity to assist in determining a maiden JORC Resource from historical drill holes.



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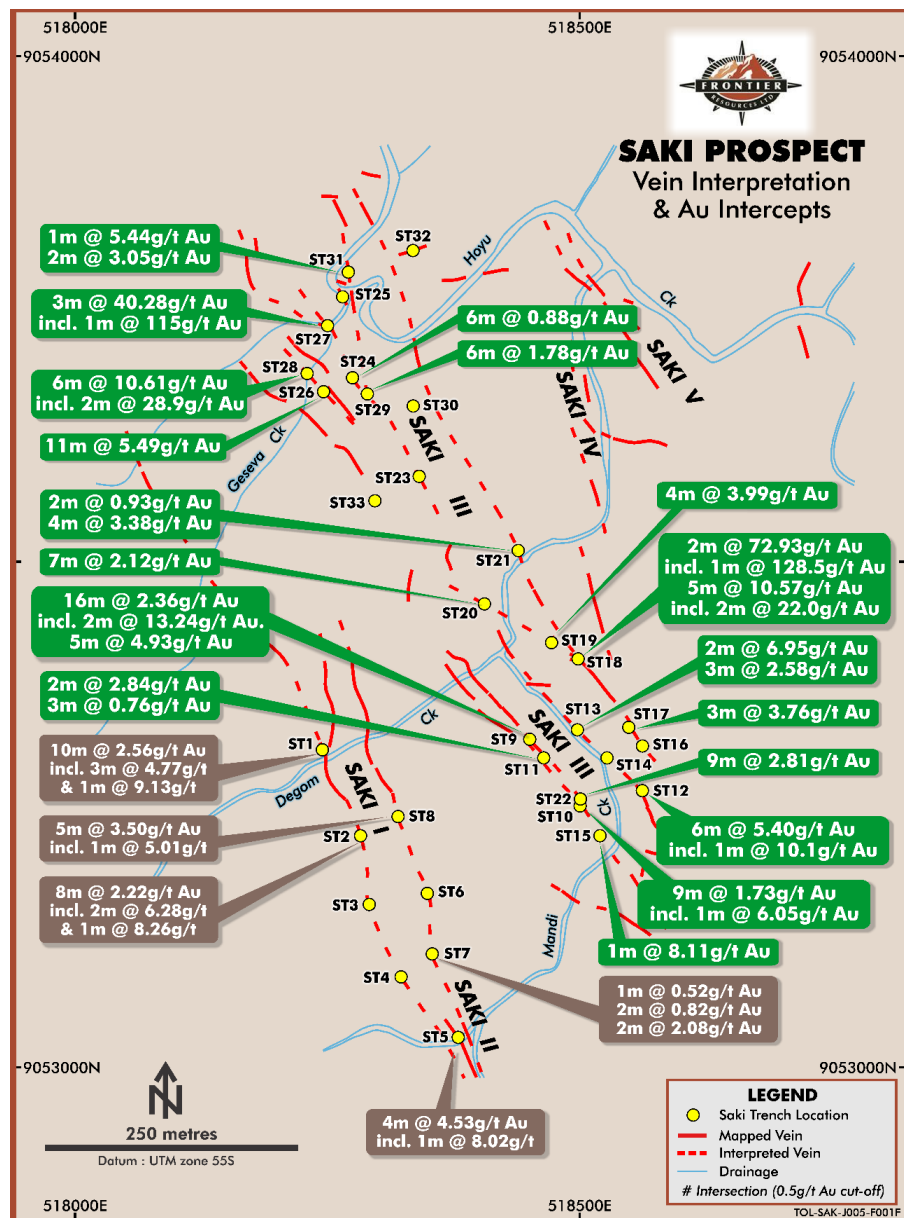


Figure 18: Frontier Saki Vein Trench Intersections (Green Highlights=Latest Results).

Corporate and Finance

Dalkeith Capital Acquisition Terms

The consideration (**Consideration**) payable by the Company for Dalkeith comprised:

- the issue of 75,000,000 fully paid ordinary shares at a deemed issue price of \$0.016 each to the shareholders of Dalkeith (**Vendors**);
- an aggregate of 37,500,000 Performance Shares in two (2) tranches to the Vendors, the conversion of which into ordinary shares is subject to and conditional upon the following events occurring (in broad terms), within the time limits set out below (each a **Milestone**):
 - Class C Performance Shares – 18,750,000

Upon the Company announcing to ASX completion of a drilling program on a Tenement and at least one drill intercept grading a minimum of 800ppm TREO over at least 5 metres, as verified by



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an independent competent person under the JORC Code, within 5 years of the date of issue of the Class C Performance Shares.

- Class D Performance Shares – 18,750,000

Upon the Company announcing to ASX delineation of a JORC compliant resource on the Tenements of a minimum of 15 million tonnes grading a minimum of 800ppm TREO, as verified by an independent competent person under the JORC Code, within 5 years of the date of issue of the Class D Performance Shares; and

- Reimbursement of \$100,000 of expenditure incurred on the Projects to date.

Following shareholder approval sought and obtained in December 2021 the Company completed the acquisition of Dalkeith and issued the Consideration.

As part of the acquisition of Dalkeith, the Company sought shareholder approval raise approximately \$400,000 by way of placement to professional and sophisticated investors at \$0.016 per share and will be fully supported by the Vendors (Capital Raising). Funds raised will be used to fund exploration with respect to the underlying Tenement Applications, once granted and existing cash reserves of the Company will continue to be directed to the Tolukuma and Murraydium Projects.

Board Changes

On 22 October 2021 the Company announced that Mr Brian Thomas accepted an invitation to join the Board of Frontier and was appointed as a Non-Executive Director effective 22 October 2021.

Mr Thomas is a very experienced Director and Corporate Executive with significant domestic and international resources management experience. He is the principal of a boutique corporate advisory practice working with small to mid-market capitalisation companies and investor groups predominantly in the resources industry overseeing market oriented technical reviews plus advising on corporate finance, mergers & acquisitions and investor relations. He has held both Executive and Non-Executive Director roles with numerous ASX listed and unlisted companies after an extensive career in the financial services sector in corporate stockbroking, investment banking, funds management and corporate banking. He has more than 35 years of mining and exploration industry experience in a broad range of commodities from precious and base metals, bulk and industrial minerals, diamonds plus oil and gas.

Mr Thomas graduated from the University of Adelaide with a BSc in Geology and Mineral Economics, the University of Western Australia Business School with an MBA and the Securities Institute of Australia (now FinSIA) with a certificate in Applied Finance and Investment.

Mr Thomas is currently the Non Executive Chairman of ASX listed Azure Minerals, a Member of The Australasian Institute of Mining and Metallurgy (MAusIMM) and the Australian Institute of Company Directors (MAICD).

The Board further advised that Ms Jessica O’Neil had resigned as a Director of the Company.

Appointment of Technical Consultant

Mr Thomas Langley through his geological consulting company Gascoyne Geological Services was appointed as a Technical Consultant of the Company, providing geological input assisting in the planning of exploration programs and logistics to enable the greatest potential for discovery of economic resources.



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Mr Langley holds a BSc Geology from the University of Western Australia and a MSc Economic Geology from the University of Tasmania (CODES). He has worked for several resource companies including BHP Nickel West, Northern Star Resources and Creasy Group, with extensive experience in both exploration and mining geology, across multiple commodities and deposit types in the Proterozoic Albany - Fraser Range, Proterozoic Paterson Province and the Archean Yilgarn Craton.

Mr Langley is currently the COO of ASX listed Province Resources and a Member of following organisations; The Australasian Institute of Mining and Metallurgy (MAusIMM), the Australian Institute of Company Directors (MAICD) and the Australian Institute of Geoscientists (MAIG).

ASX Additional Information

1. ASX Listing Rule 5.3.1: Exploration and Evaluation Expenditure during the quarter was \$234,000. Full details of exploration activity during the December quarter are set out in this report.
2. ASX Listing Rule 5.3.2: There was no substantive mining production and development activities during the quarter.
3. ASX Listing Rule 5.3.5: Payment to related parties of the Company and their associates during the quarter: \$66,558. The Company advises that this relates to non-executive directors' remuneration and additional technical consulting fees. Please see the Remuneration Report in the Annual Report for further details on Directors' Remuneration.

Releases submitted to the during the Quarter included:

23/12/2021	Change of Director's Interest Notice
22/12/2021	Appendix 3G
21/12/2021	Cleansing Notice
21/12/2021	Appendix 2A
21/12/2021	Appendix 3G
17/12/2021	Results of Meeting
01/12/2021	Taula Fieldwork Completed Showing Enhanced Potential
29/11/2021	Encouraging First Pass Rock Chip Results & Desktop Review
22/11/2021	New Rare Earth & Lithium Pegmatite Exploration Project
19/11/2021	Results of Meeting
16/11/2021	Letter to Shareholders - Notice of Shareholder Meeting
16/11/2021	Notice of Extraordinary General Meeting/Proxy Form
15/11/2021	Airborne Magnetic-Radiometric Survey Commenced at Gascoyne
08/11/2021	Reconnaissance Rock Chip Sampling Program Completed
03/11/2021	Acquisition Presentation - Dalkeith Capital
01/11/2021	Appendix 3B
01/11/2021	Appendix 3B
01/11/2021	Rare Earth and High Purity Alumina Projects Acquisition
28/10/2021	Trading Halt
27/10/2021	Quarterly Activities Report and Quarterly Cashflow Report
26/10/2021	Saki Final Trench Sampling Results Including 1m @128g/t Au
22/10/2021	Initial Director's Interest Notice
22/10/2021	Final Director's Interest Notice
22/10/2021	Director Appointment/Resignation
18/10/2021	Annual General Meeting - Notice of Access
18/10/2021	Notice of Annual General Meeting/Proxy Form
13/10/2021	Commencement of Fieldwork at the Taula Prospect
08/10/2021	Cleansing Notice
08/10/2021	Murraydium Drill Program Planning
05/10/2021	Appendix 3G
01/10/2021	Change of Director's Interest Notice
01/10/2021	Appendix 2A
01/10/2021	Appendix 2A



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01/10/2021
01/10/2021

Appendix 3G
Appendix 2A

The information referred to in this report relates to the following sources:

- ¹ Adamas Intelligence September 2020
- ² ASX.HAS: 5 May 2021 "Yangibana Project updated Measured and Indicated Resource tonnes up by 54%" [b07ebf9d-03c.pdf \(investi.com.au\)](https://investi.com.au/b07ebf9d-03c.pdf)
- ³ ASX.DRE: 11 June 2021 "High-grade Rare Earth Element Ironstones outcropping at Mangaroon"
- ⁴ Minedex Site; Tabletop Well (S0023828), 16km ENE of Gifford Creek Hmsd
- ⁵ [KulaGold | Kaolin discovered by Kula Gold at Southern Cross](#)
- ⁶ [Premium Kaolin for Ceramic Applications - Tellus Holdings](#)
- ⁷ [Backing Australia's critical minerals sector | Prime Minister of Australia \(pm.gov.au\)](#)
- ⁸ Allied Market Research, World High Purity (HPA) – Opportunities and forecasts 2015-2022 [b564fa17-d73.pdf \(investi.com.au\)](https://investi.com.au/b564fa17-d73.pdf)

Authorised by the Board of Frontier Resources.

For additional information please visit our website at www.frontierresources.net.au

FRONTIER RESOURCES LTD

Competent Person's Statement: Papua New Guinea and South Australian Projects

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by or compiled under the supervision of Peter Swiridiuk - Member of the Aust. Inst. of Geoscientists. Peter Swiridiuk is a Technical Consultant and Non-Executive Director for Frontier Resources. Peter Swiridiuk has sufficient experience which is relevant to the type of mineralisation and type of deposit under consideration to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code of Reporting Exploration Results, Mineral Resources and Ore Resources. Peter Swiridiuk consents to the inclusion in the report of the matters based on the information in the form and context in which it appears.

Additionally, Mr Swiridiuk confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report.

Competent Person's Statement: Western Australian Projects

The information in this announcement that relates to Exploration Results and other geological information has been compiled under the supervision of Mr Thomas Langley. Mr Langley is a member of the Australian Institute of Geoscientists and the Australasian Institute of Mining and Metallurgy and is a consultant to the Company. Mr Langley has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity 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 ('the JORC Code')". Mr Langley consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information in the original reports, and that the form and context in which the Competent Person's findings are presented have not been materially modified from the original reports.

ABOUT FRONTIER:

Frontier is focused on Rare Earth Elements and battery metals, directly in line with global push for carbon neutrality driven by renewable energy (particularly wind turbine) installations and Electric Vehicle adoption driving global demand for the combination of rare earths. Following the recent acquisitions of Southern Rare Earths Pty Ltd and Dalkeith Capital Pty Ltd, Frontier has secured 100% interest in the Murraydium, Gascoyne, Koolya and Kalgoorlie projects which are all located in Australia. Frontier also owns 100% of the Tolukuma project in PNG.



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Gascoyne Rare Earth Elements (REE) Project – These two tenement blocks will be the focus of exploration for light rare-earth oxide's of Neodymium (Nd₂O₃) and Praseodymium (Pr₆O₁₁) critical to the production of permanent magnets with demand set to increase 5x by 2030. The Gascoyne REE Project adjoins the world-class Yangibana Deposit (ASX:HAS ~A\$460 million market capitalisation) in the Gascoyne Region of Western Australia, set to be the next REE producer outside of China by 2023. Rare earth elements are essential to the clean and technology revolutions taking place around the world. Their deposits are relatively fast to drill and develop, with low capex, simple metallurgy and a high value offtake product.

Mt Clere Project – Frontier has applied for a significant new area prospective for rare earths and lithium pegmatites in the eastern Gascoyne Province. The strategic pegging of the Mt Clere Project is a great opportunity to expand our exploration focus for rare earths and lithium to complement our existing Gascoyne Project. An initial desktop review has highlighted numerous

sites of interest including some pegmatite occurrences. Ongoing review and compilation of historical datasets will identify additional targets to assist in future exploration programs.

Koolya High Purity Alumina (HPA) Project - Prospective for bright white kaolin and High Purity Alumina located 460km east of Perth. The Kaolin market is growing with High Purity Alumina investment in EV and battery market for ceramic coated separators driving global demand. Koolya is a drill ready project with reconnaissance drilling to be undertaken to investigate the depth, thickness, ISO brightness, mineralogy, and alumina content over the project area.

Kalgoorlie Project – This tenement application is located 50km east of Kalgoorlie, 5km southwest of the Jubilee Mining Centre and 6km northeast of the Queen Lepage Mining Centre. Once granted, initial exploration work will focus on the site of historic prospecting activity followed by an extensive geochemical sampling program, with Air Core drilling to follow pending positive results.

Murraydium Project – These four tenement blocks are within the Murray Basin and along strike of the Australian Rare Earth's (ASX:AR3) Koppamurra Rare Earths (REE) prospect which already has established Mineral Resources at Red Tail and Yellow Tail. Recent drilling by AR3 confirms clay hosted rare earth mineralisation adjacent Frontier's Naracoorte Tenement Block with results including 2m @ 1008 ppm TREO. Frontier will undertake an initial significant drilling program along existing roads and tracks to identify occurrences of clay hosted REE mineralisation.

Frontier Resources Ltd Tenement Information (Australia)

Tenement Number and Name	Ownership	Sub-blocks	Area (sq.km)	Application /Grant Date	Expiry Date
E 09/2515 - Gascoyne (WA)	100% Dalkeith Capital Pty Ltd	47	147.02	17-Dec-21	16-Dec-26
E 09/2516 - Gascoyne (WA)	100% Dalkeith Capital Pty Ltd	25	78.35	17-Dec-21	16-Dec-26
E 77/2796 - Koolya (WA)	100% Dalkeith Capital Pty Ltd	47	138.78	05-Nov-21	04-Nov-26
E 77/2797 - Koolya (WA)	100% Dalkeith Capital Pty Ltd	28	82.68	05-Nov-21	04-Nov-26
E 27/648 - Kalgoorlie (WA)	100% Dalkeith Capital Pty Ltd	5	14.76	10-Jun-21	
E 52/4012 - Mt Clere (WA)	100% Dalkeith Capital Pty Ltd	191	591.63	09-Nov-21	
ELA2021/00058 - Murraydium (SA)	100% Southern Rare Earths Pty Ltd	78	876.00	14-May-21	
Total of Granted Tenements		421	1929.22		

Tolukuma Project - Frontier's only tenement in Papua New Guinea (EL2531) surrounds the Tolukuma gold Mining Lease ML104 in the Central Province, 70km North of the national Capital of Port Moresby. A new owner is currently being sought for ML104 to refurbish the mine. Given the proximity of high grade gold prospects within EL2531, Frontier is focusing on developing potential resources within EL2531 that will be required for future mill-feed once the mine has re-opened.

Frontier Resources Ltd Exploration Licence Information (Papua New Guinea)

Exploration Licence Number and Name	Ownership	Sub-blocks	Area (sq.km)*	Grant Date	Expiry Date
EL2531 - Tolukuma	100% Frontier Copper PNG Ltd	65	223.00	25-Feb-19	24-Feb-21
ELA2529 - Gazelle	100% Frontier Copper PNG Ltd	211	719.51	N/A	N/A
Total of Granted EL's		65	223.00		

*1 sub-block approximately 3.41 sq.km

Notes: The PNG Mining Act-1992 stipulates that EL's are granted for a renewable 2 year term (subject to satisfying work and expenditure commitments) and the PNG Government maintains the right to purchase up to 30% project equity at "Sunk Cost" if/when a Mining Lease is granted. Licence EL2531 is currently subject to an extension renewal process.