

# QUARTERLY ACTIVITIES REPORT

For the Period Ending 31 December 2023



**Kingfisher has made a number of breakthrough high-grade rare earth elements discoveries and is advancing its lithium exploration in the highly prospective Gascoyne Region.**

## Highlights

- Three large carbonatite pipe targets identified from ground gravity survey at Mick Well.
- Carbonatite pipe targets interpreted to be the source of high grade Rare Earth Elements (REE) mineralisation in the Mick Well area
- Six new high-grade discoveries, MW9 to MW14, were made around the large carbonatite pipe targets at Mick Well, increasing the strike length of vein/dyke mineralisation to more than 20km.
- Exceptional results returned from newly discovered mineralisation include:
  - 26.46% TREO with 4.56% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2946)
  - 26.00% TREO with 3.62% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2873)
  - 25.66% TREO with 5.47% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3173)
  - 24.09% TREO with 3.87% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3031)
  - 20.28% TREO with 3.55% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2948)
- LK1 surface geochemistry survey defines several large REE anomalies, with peak LREO (Light Rare Earth Oxides) value of 0.21%.
- Surface geochemistry anomalies coincide with the new LK1 carbonatite pipe targets delineated from the recently completed ground gravity survey and airborne magnetics.
- Broad lithium anomalies identified from first pass, widely spaced soil geochemistry at Chalby Chalby, with lithium anomalies extending over 1600m in length and 800m in width.
- Chalby Chalby Lithium anomalies associated with pegmatites that have been mapped over a strike length of more than 13,000m and have initial assays up to 0.61% Li<sub>2</sub>O.

## COMPANY PROJECTS

Kingfisher Mining Limited (ASX:KFM) ("Kingfisher" or the "Company") is focused on exploration for critical metals at its wholly owned projects in the highly prospective Gascoyne Mineral Field of Western Australia.

## GASCOYNE CRITICAL METALS

Kingfisher's breakthrough Mick Well REE discovery and its Chalby Chalby Lithium Project both occur within the Company's extensive 969km<sup>2</sup> Gascoyne tenement holding which covers a strike length of 54km along the crustal-scale Chalba Shear Zone (Figure 1). The tenure is prospective for carbonatite REE mineralisation similar to Hastings Technology Metals' world-class Yangibana Deposit which includes 29.93Mt at 0.93% TREO (see ASX:HAS 11 October 2022) as well as the recent Yin and C3 discoveries of Dreadnought Resources which include mineral resources of 40.82Mt at 1.03% TREO (see ASX:DRE 30 November 2023). The Company's Gascoyne tenure is also prospective for lithium-bearing Thirty Three Suite Pegmatites that host Delta Lithium's Yinnetharra Project which has a mineral resource of 25.7Mt at 1.0% Li<sub>2</sub>O (see ASX:DLI 27 December 2023).

### Mick Well: High Grade REE Discoveries

Mapping and sampling in the Mick Well area during the Quarter produced six new REE discoveries around the CHI carbonatite intrusion centre and included MW9, MW10, MW11, MW12, MW13 and MW14 (Figure 2). The latest high grade discoveries included mineralisation on new orientations and increased the strike length of mapped mineralisation to more than 20km, highlighting the significant additional potential of the large-scale carbonatite complex at Mick Well.

Further high-grade monazite-dominant rock chip results from the Mick Well discoveries reported during the Quarter area include:

#### MW9

- 26.46% TREO with 4.56% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2946)
- 26.00% TREO with 3.62% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2873)
- 20.28% TREO with 3.55% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2948)
- 20.28% TREO with 3.37% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2882)
- 16.12% TREO with 2.86% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2893)

#### MW11

- 18.20% TREO with 3.21% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3010)
- 17.48% TREO with 2.92% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3015)
- 17.17% TREO with 3.00% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2986)
- 14.66% TREO with 2.26% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3003)
- 13.18% TREO with 2.35% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3085)

#### MW13

- 7.03% TREO with 1.32% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2985)
- 6.77% TREO with 1.20% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2979)
- 6.03% TREO with 1.08% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2984)
- 5.89% TREO with 1.03% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2975)
- 4.32% TREO with 0.73% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2978)

#### MW10

- 24.09% TREO with 3.87% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3031)
- 14.76% TREO with 2.70% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2938)
- 13.49% TREO with 2.05% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2926)
- 13.11% TREO with 1.99% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2927)
- 12.02% TREO with 2.22% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2937)

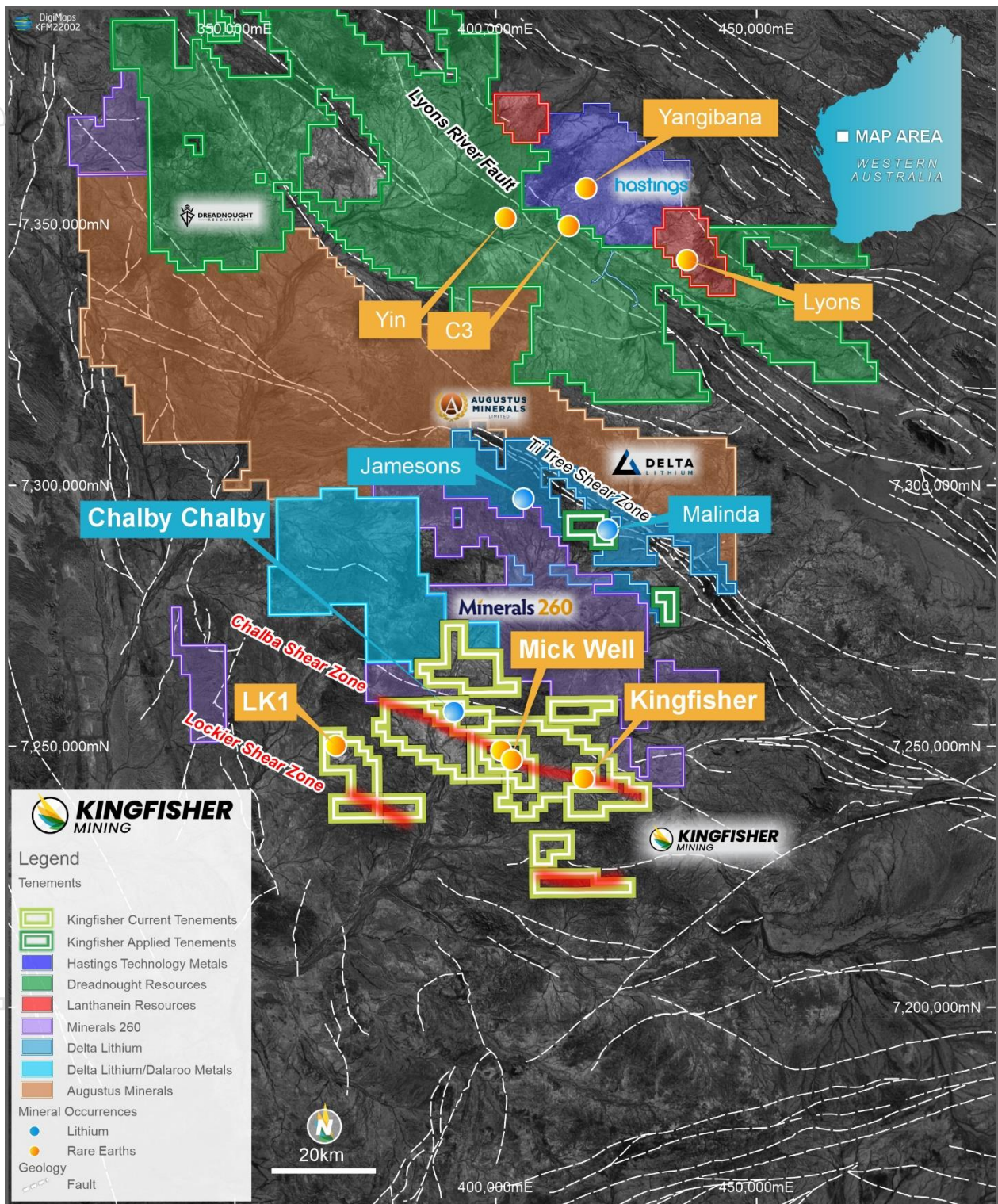
#### MW12

- 16.35% TREO with 2.30% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3036)
- 11.90% TREO with 1.67% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3038)
- 8.81% TREO with 1.54% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2969)
- 8.53% TREO with 1.15% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3037)
- 6.49% TREO with 1.12% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS2970)

#### MW14

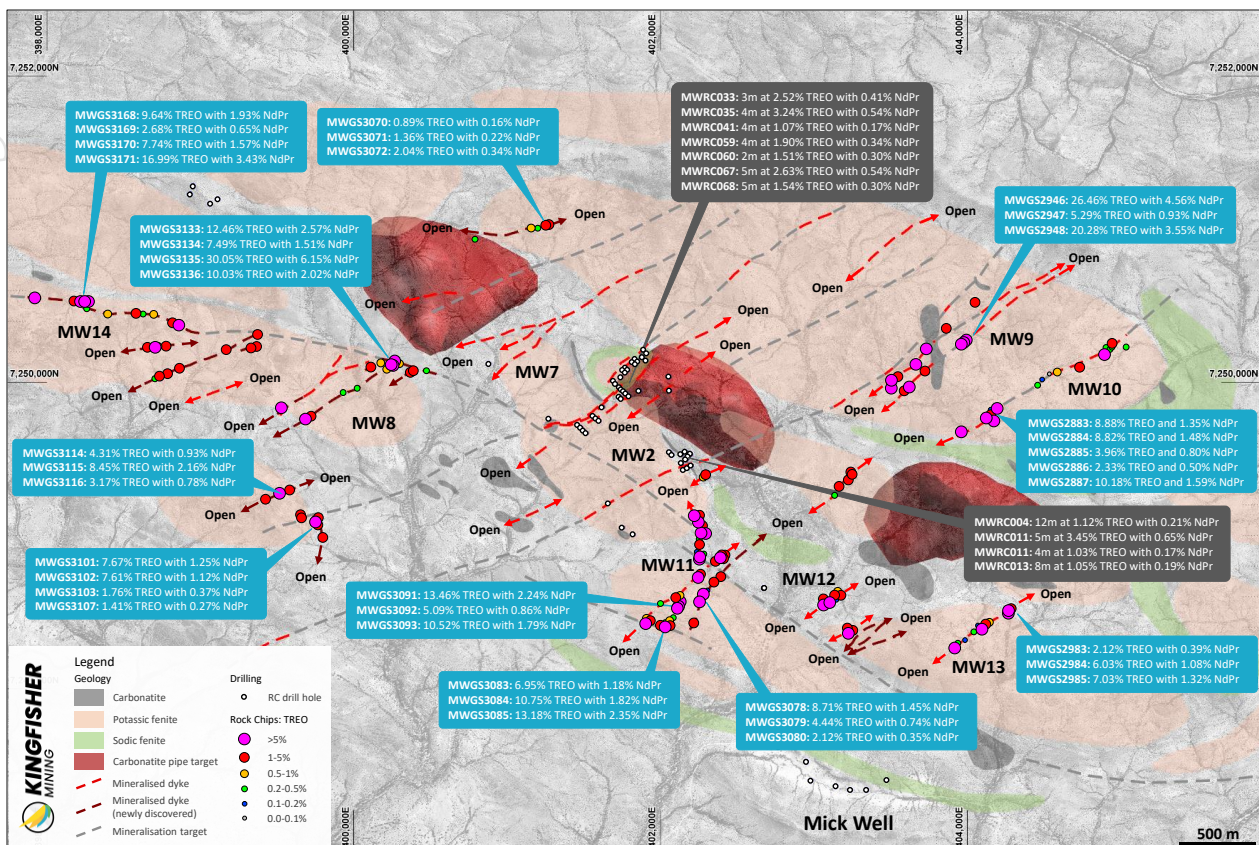
- 25.66% TREO with 5.47% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3173)
- 19.11% TREO with 4.05% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3177)
- 16.99% TREO with 3.43% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3171)
- 15.93% TREO with 3.18% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3175)
- 9.90% TREO with 1.61% Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub> (MWGS3152)





**Figure 1:** Location of the Mick Well and LK1 REE Projects and the Chalby Chalby Lithium Project in the Gascoyne Mineral Field. The location of the Yangibana REE Deposit, Yin REE and C3 Deposits which are located 100km north of Kingfisher's projects as well as the Malinda Lithium Deposit which is located 45km north of Kingfisher's projects are also shown.



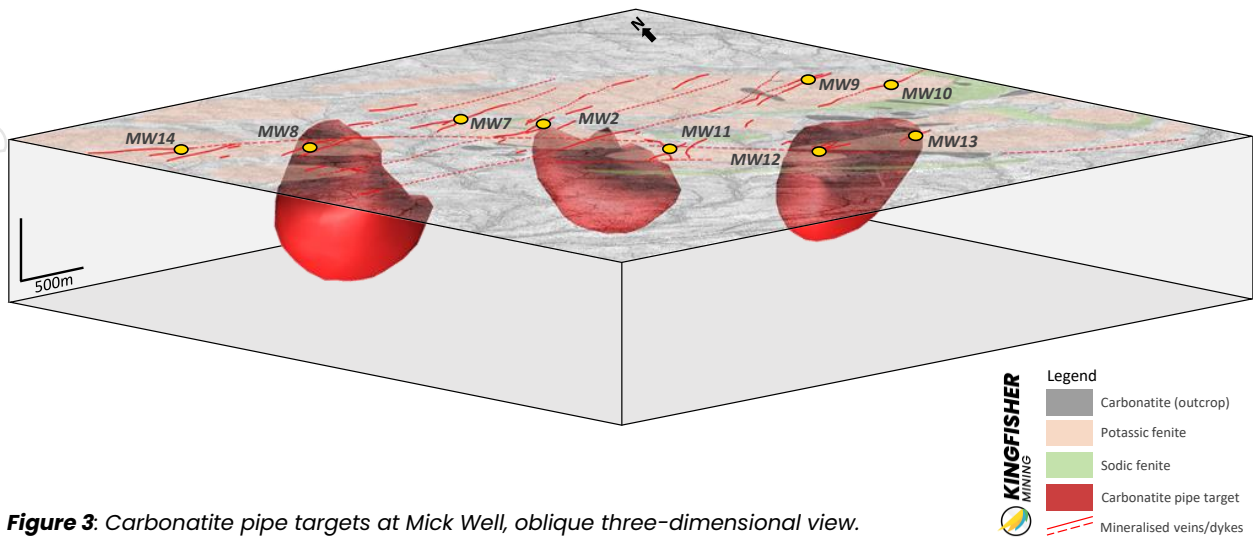


**Figure 2:** Mick Well mineralisation and new rock chip results reported during the Quarter. Drill results are shown in grey boxes (see ASX:KFM 7 February 2023, 5 July 2022 and 24 March 2022). Results are stated as Total Rare Earth Oxides (TREO%) and total  $\text{Nd}_2\text{O}_3 + \text{Pr}_6\text{O}_{11}$  (%) content.

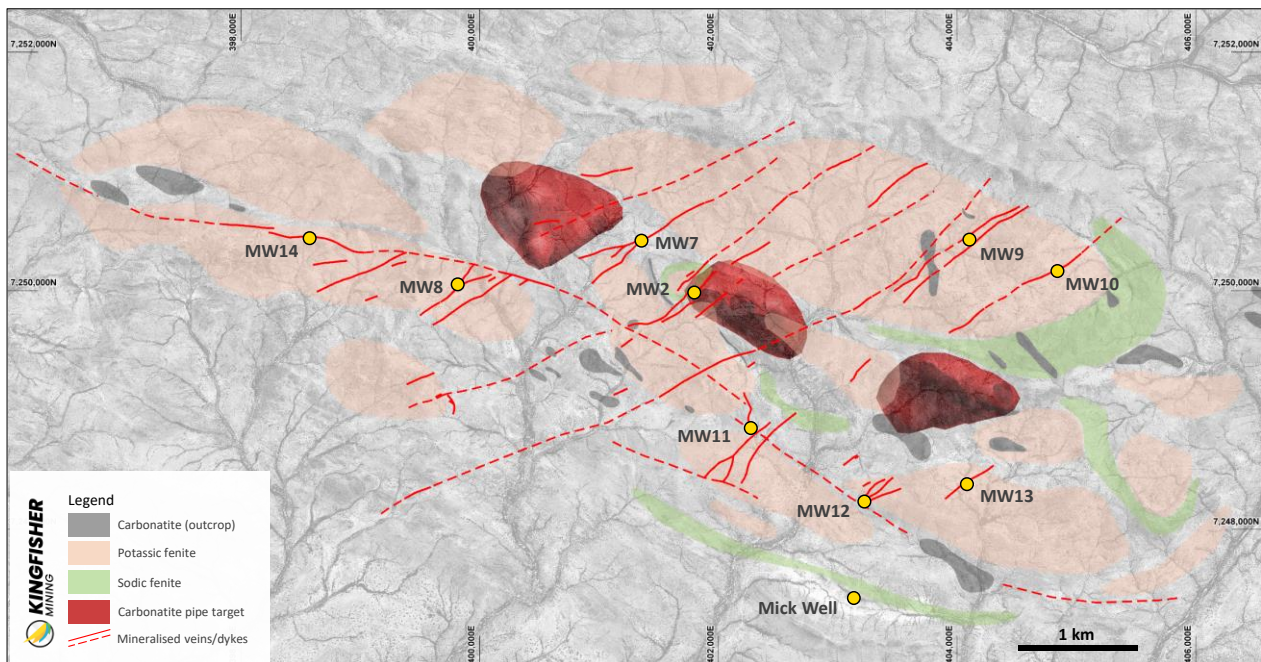
## Large-Scale Carbonatite Intrusions

Three new carbonatite pipe targets were identified during the Quarter from a gravity survey completed at Mick Well (see ASX:KFM 23 October 2023). The three large carbonatite pipe targets are all below the high grade vein and dyke REE mineralisation and were generated through three-dimensional modelling of the gravity and magnetics data (Figure 3). Areas with more dense and more magnetic rocks identified from the geophysics. Each of the target pipes is more than 1,000m in diameter and close to surface, with the depth to the top of each target being less than 50m below the ground surface.

The carbonatite pipe targets are all located in the centre of the large area of outcropping carbonatites and associated fenite alteration. The modelled targets are also directly associated with the vein and dyke mineralisation which envelop and radiate away from the interpreted intrusion centres (Figure 4).



**Figure 3:** Carbonatite pipe targets at Mick Well, oblique three-dimensional view.

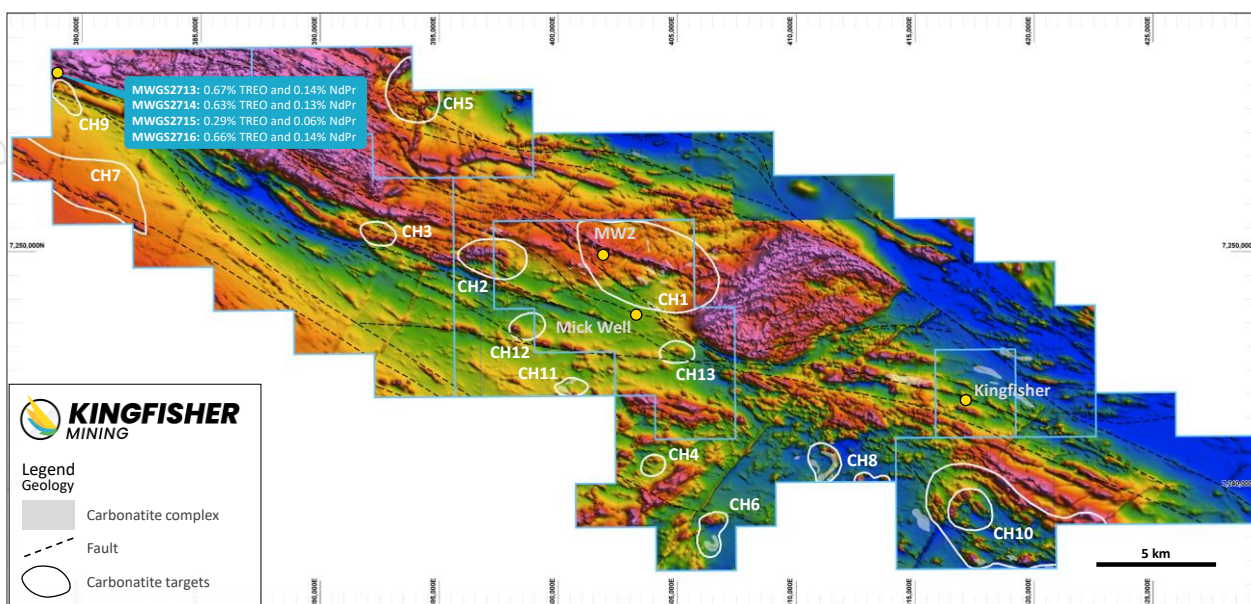


**Figure 4:** Mick Well project geology showing the carbonatite dyke targets.

Exploration for large-scale carbonatite intrusions continued to advance along the extensive 54km Chalba and 30km long Lockier target corridors during the Quarter.

A new discovery of vein and dyke mineralisation was reported from the CH9 intrusion centre which is located at the western end of the 54km long Chalba target corridor and is more than 22km along strike from MW2 (Figure 5). The newly discovered mineralised dykes includes surface sample results of up to 0.68% TREO (MWGS2713, see ASX:KFM 3 October 2023). These results are from an area with limited surface outcrop which makes it a compelling new target for the Company.



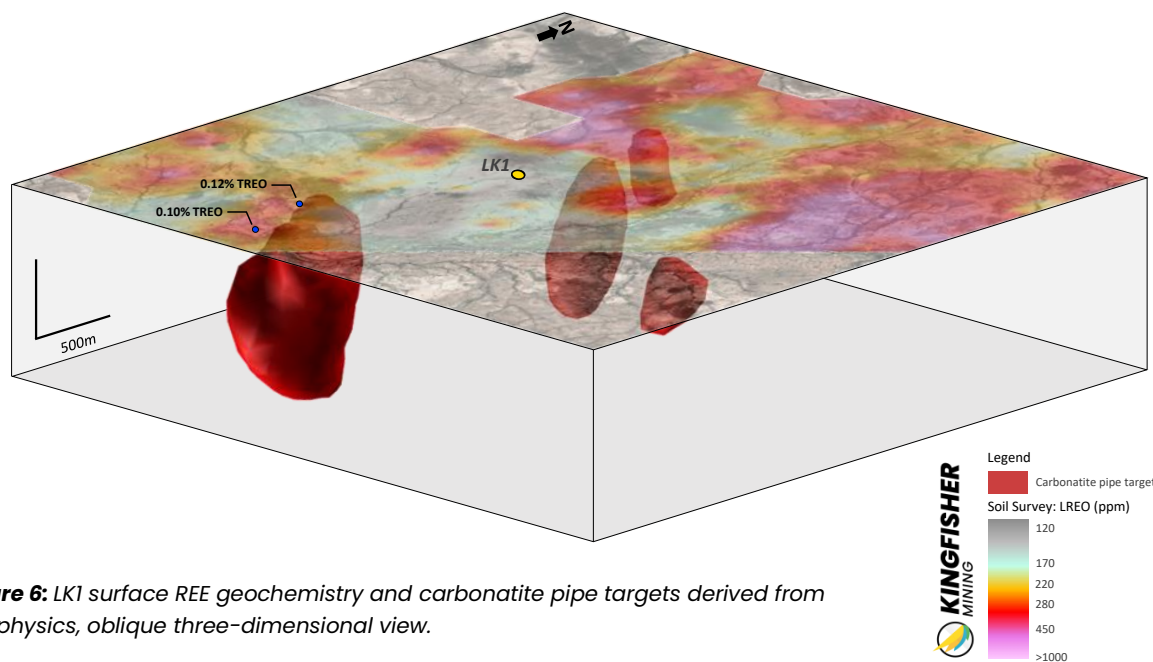


**Figure 5:** Total magnetic intensity for the 54km Chalba target corridor showing priority carbonatite targets and interpreted faults. The newly discovery mineralisation close to the CH9 target is also shown. Results are stated as Total Rare Earth Oxides (TREO%) and total  $\text{Nd}_2\text{O}_3 + \text{Pr}_6\text{O}_{11}$  (%) content.

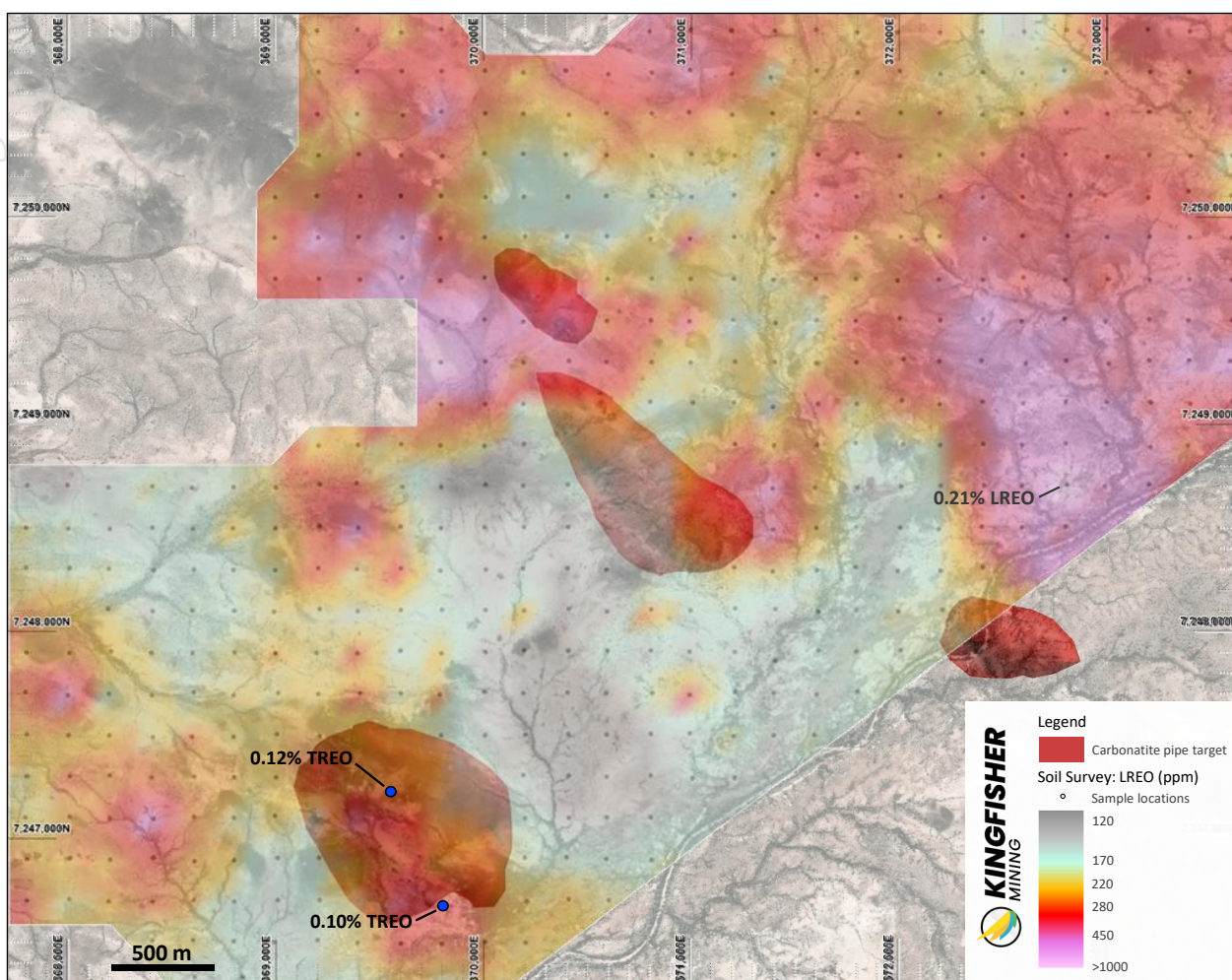
### LK1 Carbonatite Pipe Targets

The large-scale LK1 target is more than 9km long and more than 6.5km wide and is comprised of multiple circular features which are defined by the magnetics and thorium responses, with a ring-shaped thorium feature having a diameter of 1.7km (see ASX:KFM 18 January 2023). The combination of magnetic, thorium and potassium responses of the target appear similar to the architecture of the carbonatite intrusion model, with potential for carbonatite plugs and the associated vein and dyke mineralisation.

During the Quarter, four large carbonatite pipe targets were identified at the LK1 prospect from three-dimensional modelling of the gravity and magnetics data (Figure 6, Figure 7).



**Figure 6:** LK1 surface REE geochemistry and carbonatite pipe targets derived from geophysics, oblique three-dimensional view.



**Figure 7.** LK1 surface REE geochemistry and carbonatite pipe targets. The REE geochemistry has been calculated from a suite consisting of  $\text{CeO}_2$ ,  $\text{La}_2\text{O}_3$ ,  $\text{Nd}_2\text{O}_3$  and  $\text{Pr}_6\text{O}_{11}$ . The carbonatite pipe targets were derived from three-dimensional modelling of the combined magnetics and gravity geophysics data. Anomalous rock chip results associated with the southwestern carbonatite pipe target as well as the peak soil geochemistry value of 0.21% LREO are also shown.

The geophysics modelling method used for LK1 is the same that was applied by the Company to identify the carbonatite pipe targets at the Mick Well project (see ASX:KFM 23 October 2023) where discovery of high-grade REEs is continuing (see ASX:KFM 21 December 2023).

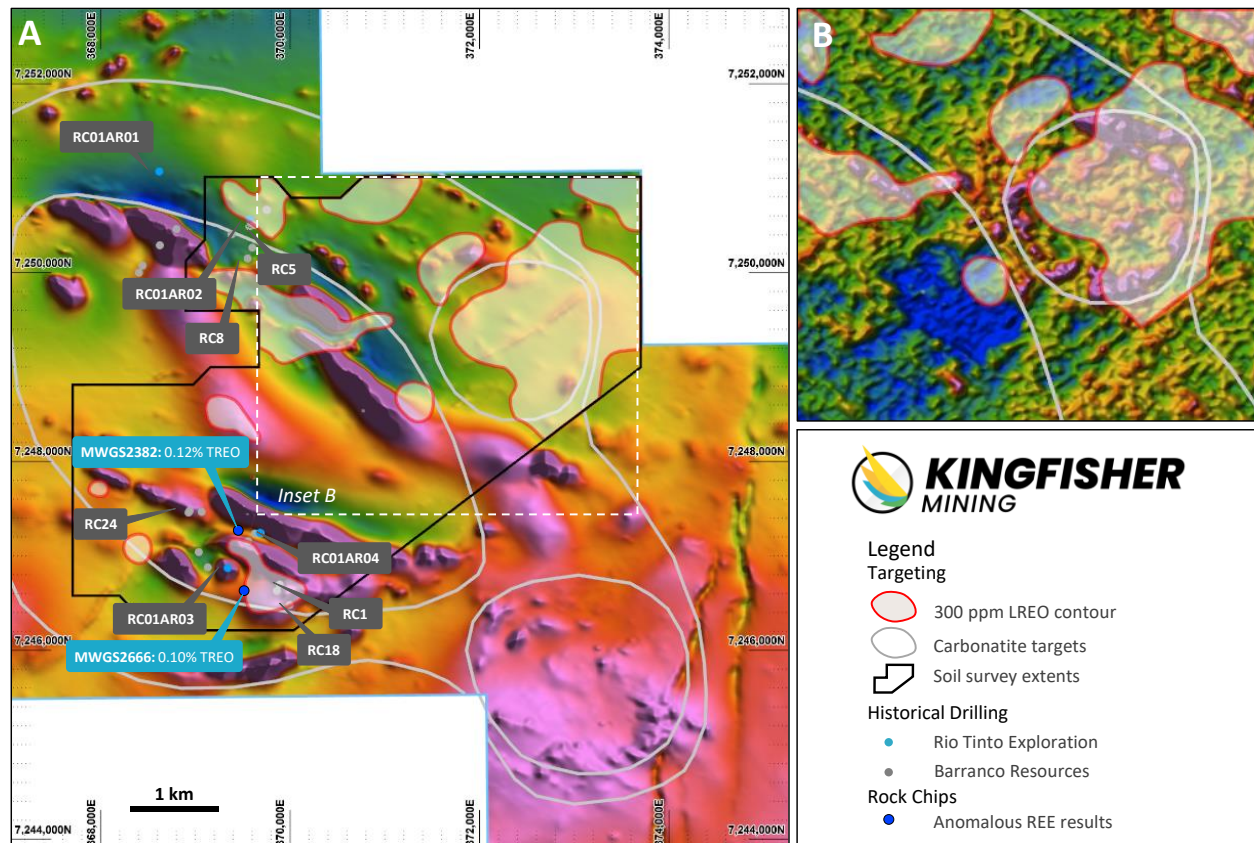
The two larger LK1 pipe targets are both more than 1,000m in diameter, extending from the near surface to depths of more than 1,000m below the ground surface. Surface mapping around the targets has confirmed the presence of ironstones, which have returned anomalous rock chip results of 0.12% and 0.10% TREO. The mapping, geophysics and geochemistry also indicate there are other rock types under cover which are yet to be fully identified.

### LK1 Soil Geochemistry Survey

The results from soil geochemistry survey at LK1 which was completed during the Quarter have highlighted several areas with highly anomalous REEs, including a large area with a diameter which extends for more than 2km. The REE soil anomalies are based on an LREO suite consisting of  $\text{CeO}_2$ ,  $\text{La}_2\text{O}_3$ ,  $\text{Nd}_2\text{O}_3$  and  $\text{Pr}_6\text{O}_{11}$ . The high magnitude surface geochemistry results which include a peak value of 0.21% TREO are spatially



associated with the carbonatite pipe targets identified from the LK1 geophysical surveys (Figure 7). The broad soil anomaly in the northeast of the target area is also coincident with a circular radiometric feature, a highly significant occurrence and one of the key features recognised during the early-stage target identification at LK1 (Figure 8).



**Figure 8:** Total magnetic intensity (A) and thorium responses coincident with anomalous REE soil geochemistry (B). Anomalous rock chips (blue boxes) and historical drill hole locations (grey boxes) described in Table 1 are also shown..

**Table 1:** Previous drilling results from the LK1 target area

Rio Tinto Drill Hole	Pathfinder elements: highest from 2m samples <sup>1</sup>
<b>ARC01AR01</b>	340 ppm Ce, 195 ppm La, 1100 ppm Ba and 1150 ppm P
<b>ARC01AR02</b>	280 ppm Ce, 165 ppm La, 125 ppm Y, 2600 ppm Ba and 3100 ppm P
<b>ARC01AR03</b>	8900 ppm P
<b>ARC01AR04</b>	1250 ppm Ba and 1400 ppm P
Barranco Drill Hole	Geology and elevated metals <sup>2</sup>
<b>RC1</b>	Ironstone with 7m at 0.25% Zn from 20m
<b>RC5</b>	Ironstone with 25m at 0.29% Zn from surface
<b>RC8</b>	Ironstone with 5m at 0.17% Zn from 20m
<b>RC18</b>	Ironstone with 30m at 0.13% Zn from 10m
<b>RC24</b>	Ironstone with 22m at 0.29% Zn from 1m

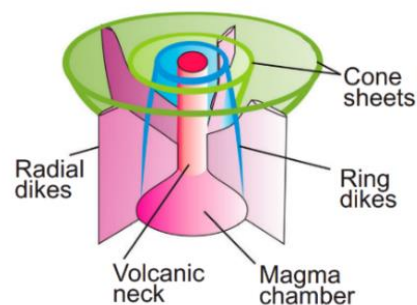
<sup>1</sup> Pathfinder elements in the reporting range are associated with REE mineralisation at MW2.

<sup>2</sup> Zinc is associated with the REE mineralisation at MW2. Drill holes not analysed for REEs.



## The Carbonatite Exploration Model

The carbonatite intrusion model has a central carbonatite pipe which is comprised of multiple phases of carbonatite intrusion that is surrounded by ring dykes which form around and radial dykes which radiate out from the central intrusion (Figure 9). The carbonatite exploration model envisages alteration of the host country rock into which the carbonatites intrude, with development of sodic (Na) and potassic (K) fenites around the intrusions which often hosts the REE mineralisation (Figure 10).

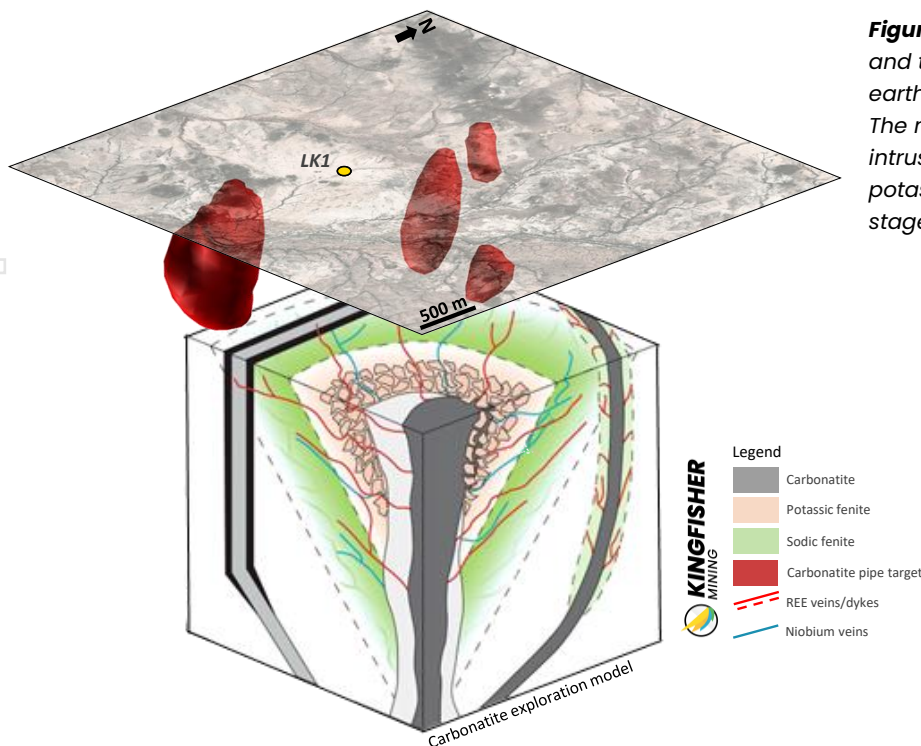


**Figure 9:** 3D schematic of a carbonatite intrusion\*

Each part of the carbonatite system has characteristics which can be detected by modern exploration techniques, for example:

- Thorium associated with the REE mineralisation is apparent in the radiometrics.
- Potassium fenites, the alteration which forms around carbonatites intrusions, is also apparent in the radiometrics.
- Ferrocarbonatites have high iron content and can appear as magnetic highs in the geophysics.
- Carbonatites typically have high density and can be distinguished from the country rocks by gravity surveys.
- ASTER (Advanced Spaceborne Thermal Emission and Reflection Radiometer) remote sensing can detect various minerals and elements, including carbonates, ferrous and ferric iron as well as alumina and magnesium and can assist with of carbonatites and associated alteration.

The combination of these geophysical responses to the carbonatite geology provide a very powerful combination of exploration tools for early stage targeting and project generation.



**Figure 10:** LK1 carbonatite pipe targets and the carbonatite associated rare earth element mineralisation model\*. The model shows carbonatite intrusions and dykes, areas of potassic fenitisation as well as the late stage REE-bearing dykes and veins.

## **GASCOYNE LITHIUM PROJECTS**

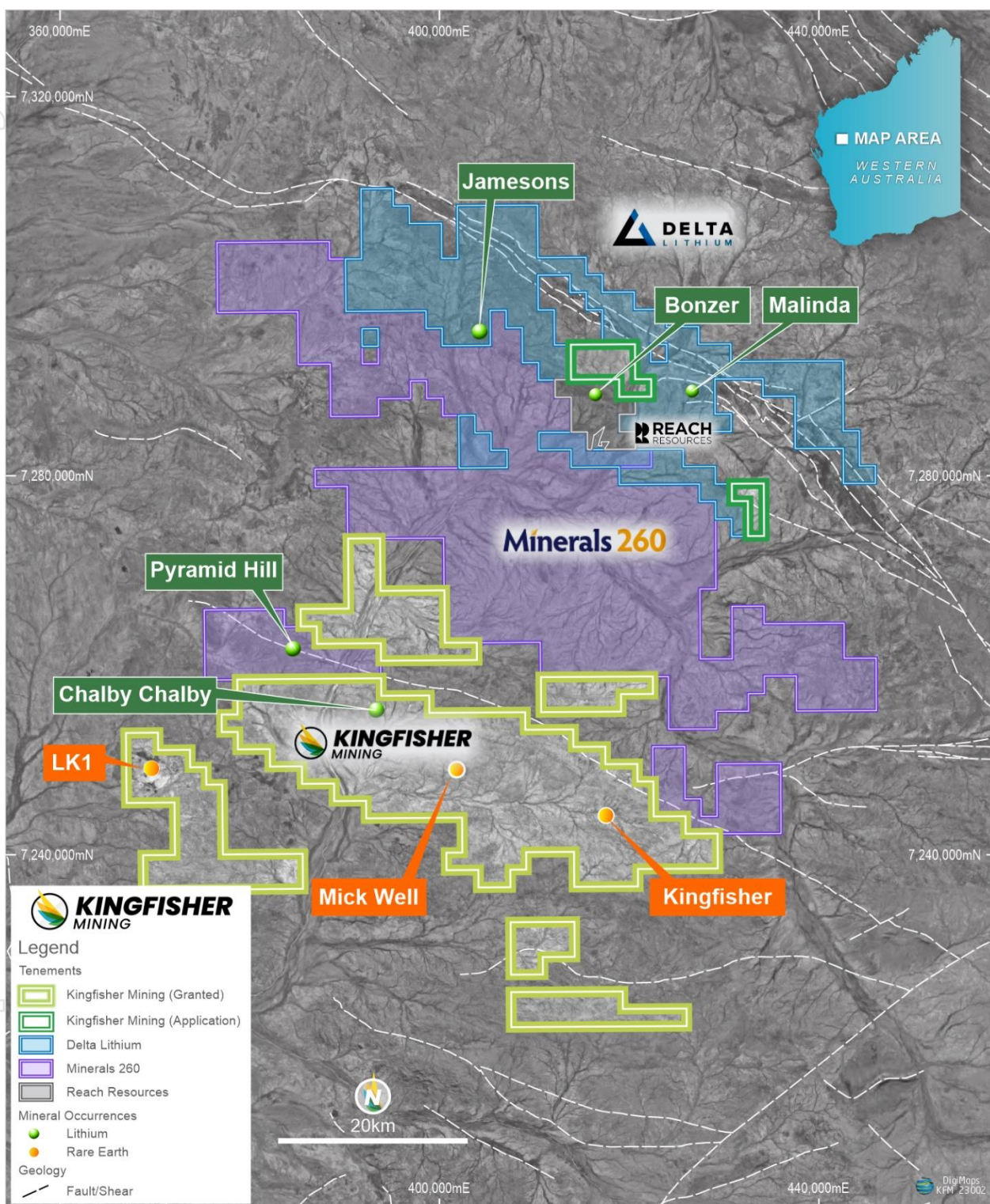
The Chalby Chalby Lithium Project is in north of Kingfisher's extensive Gascoyne tenement holding (Figure 11). Mapping and sampling for lithium at the Company's Chalby Chalby project has delineated multiple stacked pegmatites with a cumulative strike length of over 13km and with surface sample results up to 0.61% Li<sub>2</sub>O (see ASX:KFM 11 September 2023).

Recent exploration by Delta Lithium Limited has highlighted the potential of the Gascoyne Thirty Three Suite Pegmatites to host potentially economic lithium mineralisation. Significant spodumene-bearing mineralisation has been reported from Delta Lithium's Yinnetharra Project, which is located 40km northeast of Chalby Chalby and now includes a mineral resource of 25.7Mt at 1.0% Li<sub>2</sub>O (see ASX:DLI 27 December 2023). Minerals 260 Limited has also defined a 5km long continuous lithium trend at Pyramid Hill (see ASX:MI6 4 September 2023), which is immediately along strike from Chalby Chalby. The mapping of pegmatites highlights a pegmatite target zone which extends more than 22km around a large granite intrusion of the Durlacher Suite (Figure 12).

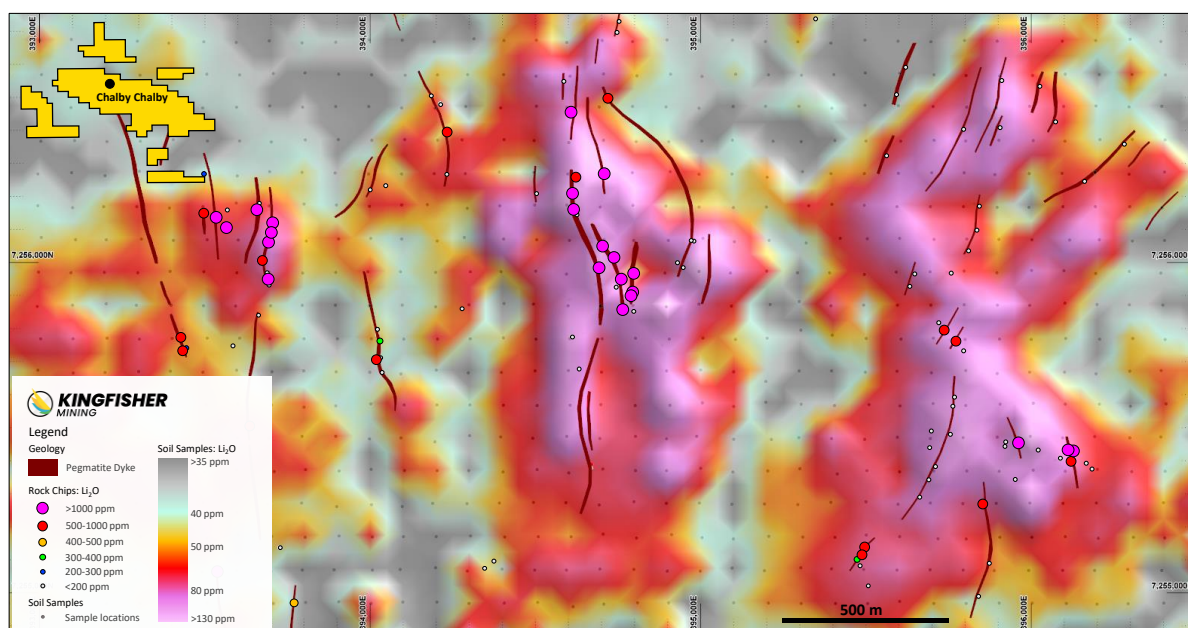
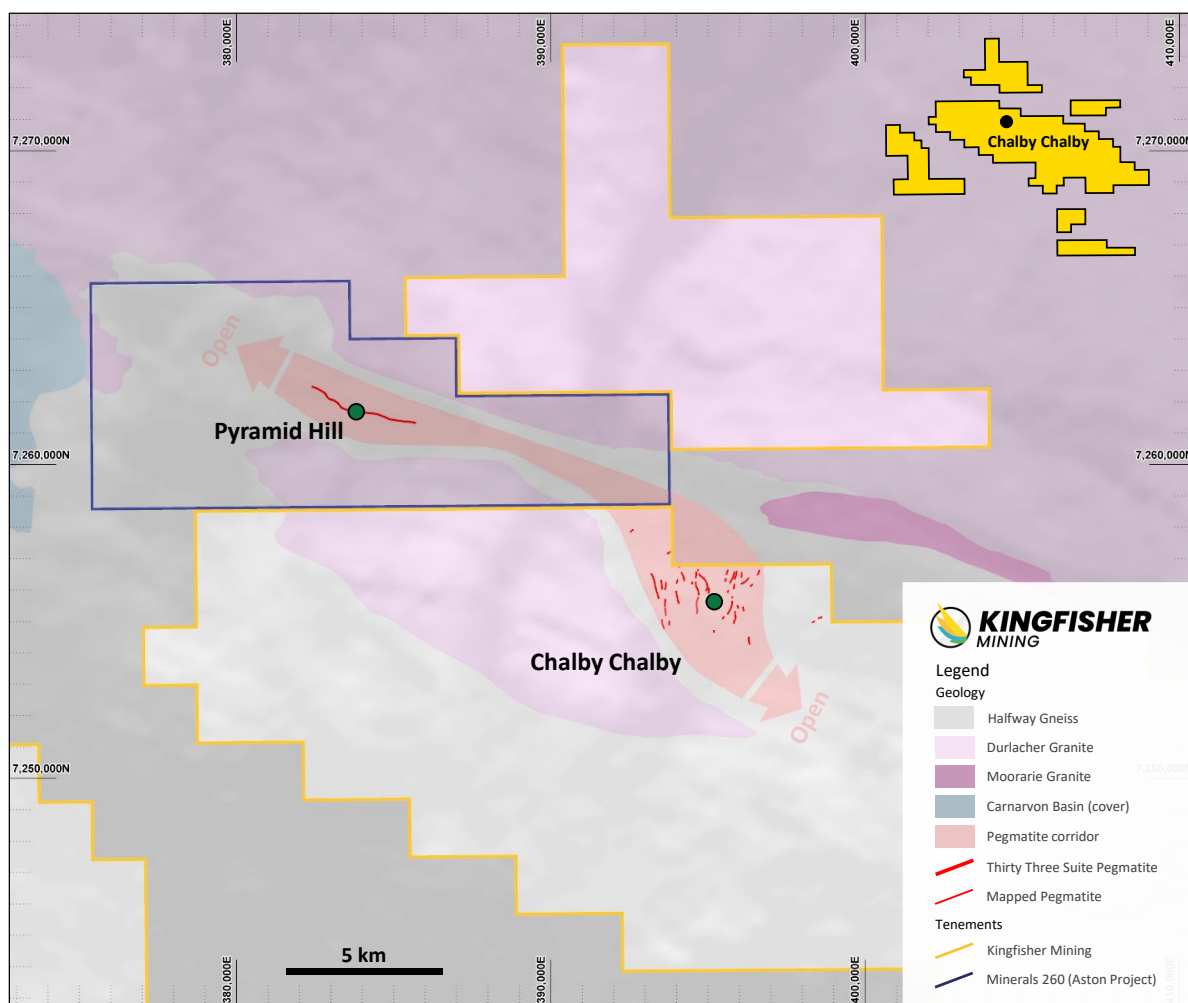
### **Chalby Chalby Lithium Prospect**

During the Quarter, a first pass and wide spaced soil geochemistry program was also completed by the Company at Chalby Chalby. The survey returned broad areas of lithium soil anomalism extending up to 1,600m in length and 800m in width. The lithium soil anomalies are associated with, and extend beyond the 13km strike length of mapped pegmatites, highlighting the potential for discovery of additional lithium-bearing pegmatites (see ASX:KFM 26 October 2023). A map showing the location of the soil samples, mapped pegmatites and rock chip results is shown in Figure 13.





**Figure 11:** Location of the Chalby Chalby Project in the highly prospective Gascoyne Mineral Field. The locations of Delta Lithium's Yinnetharra Project (Malinda and Jamesons Prospects) and Minerals 260's Aston Project (Pyramid Hill) are also shown.





## Corporate and Financial Commentary

The Company closed the quarter with \$2.01M in cash, details are provided in the Appendix 5B report.

Payments reported in Section 6 of the Appendix 5B were to Directors and include Director fees and superannuation. The amounts include cost allocations to projects where Directors have carried out work directly related to the Project, e.g. geological mapping, sampling, geophysical and geochemical surveys.

During the Quarter, the Company executed a Binding Heads of Agreement with Black Cat Syndicate Ltd (ASX:BC8) ("Black Cat") for the sale of a 100% interest in Kingfisher's Boolaloo Project. The Boolaloo Project is located 35km from Black Cat's Paulsens Gold Operation and adjoins Black Cat's Ashburton tenure. The transaction allows Kingfisher to remain focused on its highly prospective Mick Well REE and Chalby Chalby Lithium Projects.

This announcement has been authorised by the Board of Directors of the Company.

## Ends

### For further information, please contact:

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### About Kingfisher Mining Limited

Kingfisher Mining Limited (**ASX:KFM**) is a mineral exploration company committed to increasing value for shareholders through the acquisition, exploration and development of mineral resource projects throughout Western Australia. The Company's tenements cover 9,69km<sup>2</sup> in the underexplored Gascoyne Mineral Field.

The Company has made a number of breakthrough high grade rare earth elements discoveries in the Gascoyne region where it holds a target strike lengths of more than 54km along the Chalba mineralised corridor and more than 30km along the Lockier mineralised corridor.

To learn more please visit: [www.kingfishermining.com.au](http://www.kingfishermining.com.au)

### Information Sources

The information contained in this announcement related to the Company's past exploration results is extracted from, or was set out in, the following ASX announcements which are referred to in this Quarterly Activities Report:

- The report released 21 December 2021 'Kingfisher Confirms Rare Earths Potential at Gascoyne Projects'
- The report released 10 January 2022 'Significant Rare Earths Discovery: 12m at 1.12% TREO'
- The report released 24 March 2022 'High Grade Rare Earths Returned from Discovery Drill Hole: 4m at 1.84% TREO, including 1m at 3.87% TREO'

- The report released 5 July 2022 'Latest Drilling Returns High Grade REEs with 5m at 3.45% TREO, including 3m at 5.21% TREO'
- The report released 30 August 2022 '40% REE Returned from Mick Well'
- The report released 4 October 2022 'Further Exceptional REE Results Extends MW2 Strike Length to 3km'
- The report released 24 October 2022 'New REE Discoveries along Kingfisher's 54km Target Corridor - MW7 and MW8'
- The report released 29 November 2022 'Assays from MW7 Confirm Another High Grade REE Discovery'
- The report released 10 January 2023 'Exciting New Carbonatite REE Targets Along 54km Corridor'
- The report released 18 January 2023 'Large-Scale Carbonatite REE Targets Identified at Arthur River'
- The report released 23 January 2023 'MW2 and MW7 Continue to Expand on Latest Surface Sample Results'
- The report released 7 February 2023 'High Grade Drilling Results Confirm New MW2 REE Discovery'
- The report released 23 February 2023 'Exciting Carbonatite Potential at Arthur River'
- The report released 27 February 2023 'Latest MW2 Surface Sample Extend Mineralised Zone'
- The report released 3 April 2023 'Significant Exploration Program Targets Large-Scale Carbonatites'
- The report released 10 July 2023 'Carbonatite Intrusions Confirmed at Large-Scale Chalba Targets'
- The report released 7 August 2023 'Lithium-Bearing Pegmatites Confirmed at Highly Prospective Gascoyne Tenure'
- The report released 11 September 2023 'Multiple Stacked Lithium-Bearing Pegmatites Mapped at Chalby Chalby'
- The report released 3 October 2023 'Further High Grade REE Mineralisation Discovered at Mick Well'
- The report released 23 October 2023 'Gravity Survey Confirms Carbonatite Pipe Targets at Mick Well'
- The report released 26 October 2023 'Broad Lithium Anomalies Identified from Chalby Chalby Soil Geochemistry Survey'
- The report released 14 November 2023 'Significant Additional Carbonatites and REE Mineralisation Identified at Mick Well'
- The report released 23 November 2023 'High Grade Discoveries Further Expand REE Carbonatites at Mick Well'
- The report released 7 December 2023 'LK1: Another Compelling Carbonatite Target 7 December 2023'
- The report released 20 December 2023 'Mick Well Exceeds 20km of REE Mineralisation 20 December 2023'
- ASX Announcement 'Large, High Confidence Yin Ironstone Resource - Mangaroon (100%)'. Dreadnought Resources Limited (ASX:DRE), 30 November 2023.
- ASX Announcement 'Drilling along 8km long Bald Hill - Fraser's trend Increases Indicated Mineral Resources by 50%'. Hastings Technology Metals Limited (ASX:HAS), 11 October 2022.
- ASX Announcement 'Yinnetharra Lithium Project Maiden Mineral Resource Estimate'. Delta Lithium Limited (ASX:DLI), 27 December 2023.
- ASX Announcement 'Minerals 260 to accelerate exploration at Aston Project after defining new lithium trend'. Minerals 260 Limited (ASX:MI6), 4 September 2023.



### Technical Exploration Papers

- \* Simandl, G.J. and Paradis, S. 2018. Carbonatites: related ore deposits, resources, footprint, and exploration methods, Applied Earth Science, 127:4, 123-152
- \* Elliott, H.A.L., Wall, F., Chakhmouradian, A.R., P.R.Siegfried, Dahlgrend, S., Weatherley, S., Finch, A.A., Marks, M.A.W., Dowman, E. and Deady, F. 2018. Fenites associated with carbonatite complexes: A review. Ore Geology Reviews, Volume 93, February 2018, Pages 38-59.

### Total Rare Earth Oxide Calculation

Total Rare Earths Oxides (TREO) is the sum of the oxides of the light rare earth elements lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), and samarium (Sm) and the heavy rare earth elements europium (Eu), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb), lutetium (Lu), and yttrium (Y).

### Forward-Looking Statements

This announcement may contain forward-looking statements which involve a number of risks and uncertainties. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more of the risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. No obligation is assumed to update forward looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.

### Competent Persons Statements

*The information in this report that relates to Exploration Results is based on information compiled by Mr James Farrell, a geologist and Executive Director / CEO employed by Kingfisher Mining Limited. Mr Farrell is a Member of the Australian Institute of Geoscientists and has sufficient experience that is relevant to this style of mineralisation and type of deposit under consideration and to the activity that is being reported on 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 Farrell consents to the inclusion in the report of the matters in the form and context in which it appears.*

### Schedule of Tenements

Project	Tenement	Registered Holder	Status	Area (Bt)	Expiry Date	Interest Held @ 30-Sept-23	Interest Held @ 31-Dec-23
Boolaloo <sup>1</sup>	E08/2945	Kingfisher Mining Ltd	Granted	24	14 May 2028	100%	100%
	E08/3067	Kingfisher Mining Ltd	Granted	9	22 April 2025	100%	100%
	E08/3246	Kingfisher Mining Ltd	Granted	23	5 July 2026	100%	100%
	E08/3247	Kingfisher Mining Ltd	Granted	74	16 November 2026	100%	100%
	E08/3317	Kingfisher Mining Ltd	Granted	94	17 November 2026	100%	100%
Kingfisher	E09/2242	Kingfisher Mining Ltd	Granted	4	1 February 2028	100%	100%
	E09/2349	Kingfisher Mining Ltd	Granted	24	21 October 2025	100%	100%
	E09/2481	Kingfisher Mining Ltd	Granted	79	16 January 2022	100%	100%
Mick Well	E09/2320	Kingfisher Mining Ltd	Granted	20	20 March 2024	100%	100%
	E09/2495	Kingfisher Mining Ltd	Granted	50	10 April 2027	100%	100%
	E09/2653	Kingfisher Mining Ltd	Granted	14	20 July 2027	100%	100%
Arthur River	E09/2319 <sup>2</sup>	Kingfisher Mining Ltd	Granted	10	15 January 2024	100%	100%
	E09/2494	Kingfisher Mining Ltd	Granted	26	11 April 2027	100%	100%
	E09/2523	Kingfisher Mining Ltd	Granted	10	4 April 2027	100%	100%
Chalba	E09/2654	Kingfisher Mining Ltd	Granted	35	28 August 2027	100%	100%
	E09/2655	Kingfisher Mining Ltd	Granted	14	20 July 2027	100%	100%
Mooloo	E09/2660	Kingfisher Mining Ltd	Granted	10	31 October 2027	100%	100%
	E09/2661	Kingfisher Mining Ltd	Granted	18	1 November 2027	100%	100%
Yinnetharra	E09/2837 <sup>3</sup>	Kingfisher Mining Ltd	Pending	4		100%	100%
	E09/2847 <sup>4</sup>	Kingfisher Mining Ltd	Pending	10		100%	100%

#### Notes for the schedule of tenements:

1. A Binding Heads of Agreement was announced with Black Cat Syndicate Ltd (ASX:BC8) for the sale of a 100% interest in Kingfisher's Boolaloo Project on 4 December 2023.
2. Tenement transfer agreement executed on 10 January 2024 with Mining Equities Pty Ltd.
3. Kingfisher applied for E09/2837 which covers 4 blocks on 16 June 2023. Competing applications were also lodged on the same date and the tenement owner will be decided by ballot.
4. Kingfisher applied for E09/2847 which covers 10 blocks on 16 June 2023. Competing applications were also lodged on the same date and the tenement owner will be decided by ballot.



## Appendix 5B

### Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Kingfisher Mining Limited

ABN

96 629 675 216

Quarter ended ("current quarter")

31 December 2023

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
<b>1.</b>	<b>Cash flows from operating activities</b>		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation	-	-
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(153)	(269)
	(e) administration and corporate costs	(140)	(288)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	20	33
1.5	Interest and other costs of finance paid	(1)	(2)
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	-	-
<b>1.9</b>	<b>Net cash from / (used in) operating activities</b>	<b>(274)</b>	<b>(526)</b>
<b>2.</b>	<b>Cash flows from investing activities</b>		
2.1	Payments to acquire or for:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	(1)	(1)
	(d) exploration & evaluation	(405)	(835)
	(e) investments	-	-
	(f) other non-current assets	-	-

<b>Consolidated statement of cash flows</b>		<b>Current quarter \$A'000</b>	<b>Year to date (6 months) \$A'000</b>
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
<b>2.6</b>	<b>Net cash from / (used in) investing activities</b>	<b>(406)</b>	<b>(836)</b>

<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	-
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	(5)	(10)
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
<b>3.10</b>	<b>Net cash from / (used in) financing activities</b>	<b>(5)</b>	<b>(10)</b>

<b>4.</b>	<b>Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1	Cash and cash equivalents at beginning of period	2,692	3,379
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(274)	(526)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(406)	(836)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(5)	(10)



## Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	2,007	2,007

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	257	192
5.2	Call deposits	1,750	2,500
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	2,007	2,692

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	95
6.2	Aggregate amount of payments to related parties and their associates included in item 2	6
<i>Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.</i>		

Includes Directors' salaries and fees and superannuation.

## Mining exploration entity or oil and gas exploration entity quarterly cash flow report

<b>7.</b>	<b>Financing facilities</b> <i>Note: the term "facility" includes all forms of financing arrangements available to the entity.</i> <i>Add notes as necessary for an understanding of the sources of finance available to the entity.</i>	<b>Total facility amount at quarter end \$A'000</b>	<b>Amount drawn at quarter end \$A'000</b>
7.1	Loan facilities	-	-
7.2	Credit standby arrangements	-	-
7.3	Other (please specify)	-	-
7.4	<b>Total financing facilities</b>	-	-
7.5	<b>Unused financing facilities available at quarter end</b>		-
7.6	Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.		
	N/A		

<b>8.</b>	<b>Estimated cash available for future operating activities</b>	<b>\$A'000</b>
8.1	Net cash from / (used in) operating activities (item 1.9)	(274)
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(405)
8.3	Total relevant outgoings (item 8.1 + item 8.2)	(679)
8.4	Cash and cash equivalents at quarter end (item 4.6)	2,077
8.5	Unused finance facilities available at quarter end (item 7.5)	-
8.6	Total available funding (item 8.4 + item 8.5)	2,077
8.7	<b>Estimated quarters of funding available (item 8.6 divided by item 8.3)</b>	3.1
	<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>	
8.8	If item 8.7 is less than 2 quarters, please provide answers to the following questions:	
8.8.1	Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
	Answer: N/A	
8.8.2	Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
	Answer: N/A	



## Mining exploration entity or oil and gas exploration entity quarterly cash flow report

8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

Answer: N/A

*Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.*

## Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 22 January 2024

Authorised by: By the Board of Kingfisher Mining Limited  
(Name of body or officer authorising release – see note 4)

## Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.