

**ASX Announcement**  
**22 March 2023**

**Catalina Resources** is an Australian diversified mineral exploration and mine development company.

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## **Exploration Update- Dundas Project**

Catalina Resources (“Catalina” or “the Company”) is pleased to provide an update at the Dundas Project.

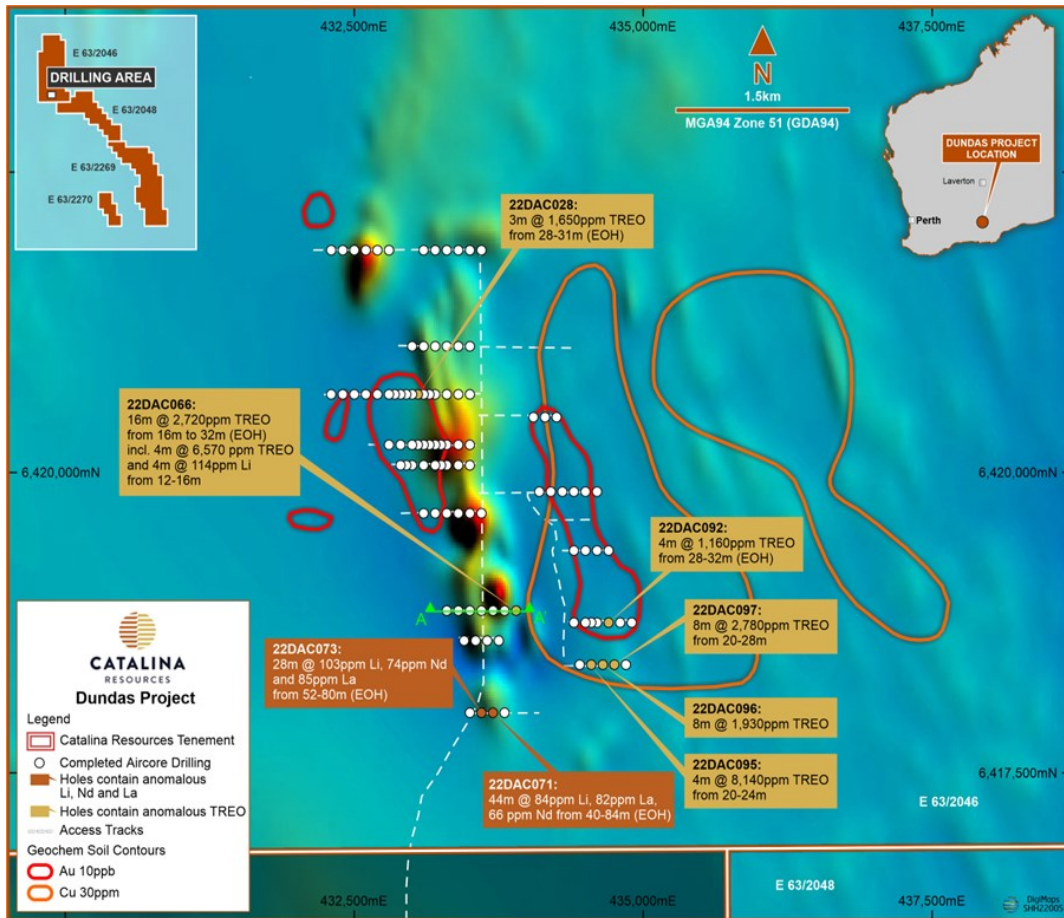
- **Follow up sampling of anomalous air core composite samples is complete with the collection of the 1m re-splits.**
- **Samples containing the blue green mineral were re-collected from the on-site sample piles. They are being scrutinised by further studies, including X-ray diffraction analysis (XRD) to determine its composition and identification.**
- **A soil geochemistry traverse was completed over air core hole 22DAC095. This hole intersected the highest grades (4m @ 0.8% TREO) and presents an ideal opportunity to trial low-level soil geochemistry.**

The maiden 105-hole air core drill program was completed at the Dundas Project in December 2022. The Dundas Project occurs in an underexplored green fields region in the Albany Fraser Belt of WA. Its regional location is shown in Figure 1.

The receipt of the REE assays, are an excellent beginning to the exploration of the region for Catalina Resources. The coincidence of lithium with the anomalous REE geochemistry is unusual and justifies the high regard Catalina has for the region.

These anomalous REE and lithium assays reinforces Catalina’s belief that Dundas will emerge as a significant asset in a prospective and very underexplored location. Assays indicate significant REE intersections up to 16m thick and anomalous Li intersections up to 44m thick are present. Significant intersections are summarised in Figure 1.

The assays are derived from 4m composite air core drilling samples as per the company’s ASX announcement of 27 February 2023. The one-meter re-splits were collected from the on-site sample piles in March 2023. Figure 2 illustrates the samples collected from the sample piles for drill hole 22DAC073. A total of 127 samples were collected from 8 holes. Assays are expected in 6-10 weeks.



**Figure 1.** Air core drilling and assay summary. Underlying image is the regional aeromagnetic image.

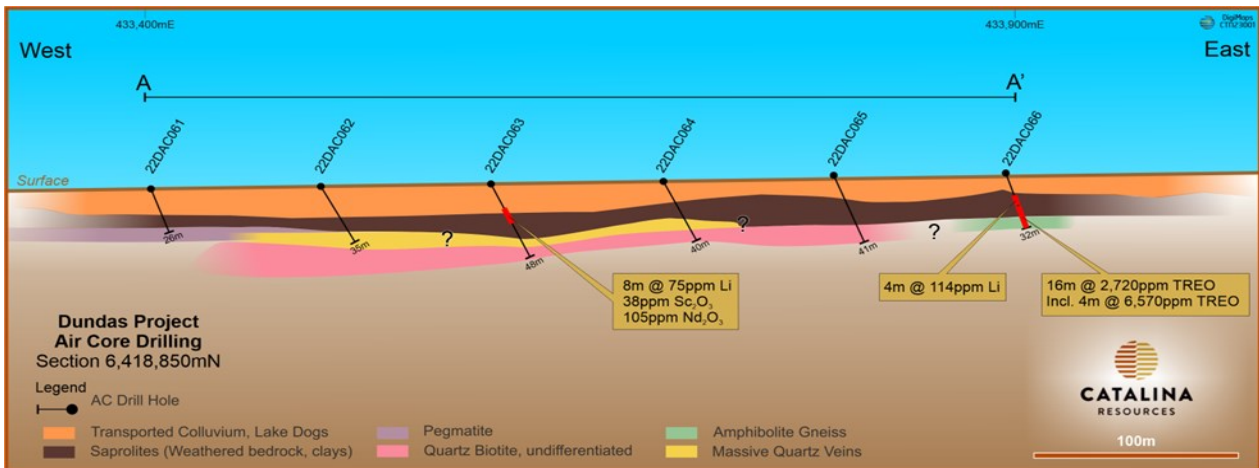


**Figure 2.** Re-split samples collected from the sample piles for air core hole 22DAC073.

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The REE anomaly intersections highlight the prospectivity of the area drilled at Dundas. Significant REE enrichment in the regolith is the result of weathering induced clay formation and REEs can be either enriched or depleted in different depth horizons of the regolith. Of note is the presence of anomalous REE mineralisation in bedrock in several holes below the regolith horizons (For example 22DAC066, Figure 3). This suggests potential exists at Dundas for higher grade, higher commercial value, hard rock REE mineralisation.



**Figure 3.** Drilling cross-section, A-A'. Mineralisation extending into the fresh rock, as for 22DAC066.

Within hole 22DAC016, from 30-35m (EOH), pegmatite containing a blue green mineral was intersected. The mineral was logged as aqua marine, a gem variety of the beryl mineral group. Mineral analytical reports received from the air core drilling samples suggest that the blue green mineral reported was not aqua marine (beryl). Catalina has commenced technical studies of these samples and crystals to determine its composition and make an identification. Further scrutiny of these samples will include X-ray diffraction analysis (XRD). A primary use of XRD analysis is the identification of materials based on their diffraction pattern. XRD works by irradiating a material with incident X-rays and then measuring the intensities and scattering angles of the X-rays that leave the material.

### Trial soil geochemistry.

A 1.5 km long orientation soil geochemistry traverse was completed over air core hole 22DAC095. This hole intersected the highest grades (4m @ 0.81% TREO) and presents an ideal opportunity to trial low-level soil geochemistry.

The CSIRO has commercialised a technique called ultra-fine soil sampling<sup>1</sup>. UltraFine+™ is now an established approach to surface exploration analysis using proven geochemical methods to identify sensitive signals at surface. Ultrafine soil sampling allows for the analysis of most metals including REEs and lithium.

Analysis of the reactive 2-micron clay fraction, with microwave digestion and using the latest low detection level ICPMS technology, has proven to be very useful for geologists and geochemists to help 'see' through shallow to moderate cover. Air core hole 22DAC095 indicates the transported cover is 16m thick.

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### **Next Steps.**

The Company continues its efforts to advance projects using modern exploration techniques and following a process of continuous evaluation and prioritisation of its exploration targets & project portfolio. The Dundas Project is a large project with approximately 650 sq kms over 4 tenements (including 2 ELAs) with multiple exploration targets. Given the size of the company, the current focus at Dundas Project is to pursue the exploration targets around the area of aircore drilling in E63/2046. The Company continues to also pursue its other projects as per its various reports & announcements to ASX.

The Company looks forward to the receipt of results over coming 6 to 10 weeks of the 1m re-splits of the anomalous 4m composite samples, XRD analysis and ultra-fine soil sampling as detailed in this announcement. This will facilitate planning of the RC drilling underneath and along strike of the air core targets in E63/2046 southern part.

As the project is in the Dundas National Park, additional tenement conditions over and above that for normal exploration licences are in force. These tenement conditions include Prior to any environmental disturbance, the licensee preparing a detailed CMP (Conservation Management Plan) for each phase of proposed exploration for approval. The Minister for Environment and the Conservation and Parks Commission has formal requirements under Section 24 of the Mining Act 1978 (Mining Act) to provide formal recommendations on proposed activities in Dundas Nature Reserve prior to the Minister for Mines and Petroleum providing his consent. DBCA reviews and presents the information prepared by and on behalf of the applicant (including copies of the proposal document(s)) to the Minister for Environment and the Conservation and Parks Commission in the form of a Conservation Management Plan (CMP).

A new CMP has been developed and lodged with the DBCA in November 2022 for the next phase of exploration including deeper drilling. This CMP was updated and lodged in February 2023 following a meeting with DBCA and feedback received on the November draft version.

Catalina expects to begin deeper drilling, via RC methods, in a few months once the above processes are completed and approved. Catalina has made commitments that exploration activities will not be conducted under high fire risk conditions or when local fire bans have been declared. Catalina is also required to access the reserve only during dry soil conditions as accessing of Dundas Nature Reserve during the wet season may risk the rutting and erosion of tracks.

The release of this document to the market has been authorised by the Board of Catalina Resources Ltd.

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**ABOUT DUNDAS PROJECT**

The Dundas project is in the Dundas Nature Reserve located approximately 90 km southeast of Norseman (Figure 4).

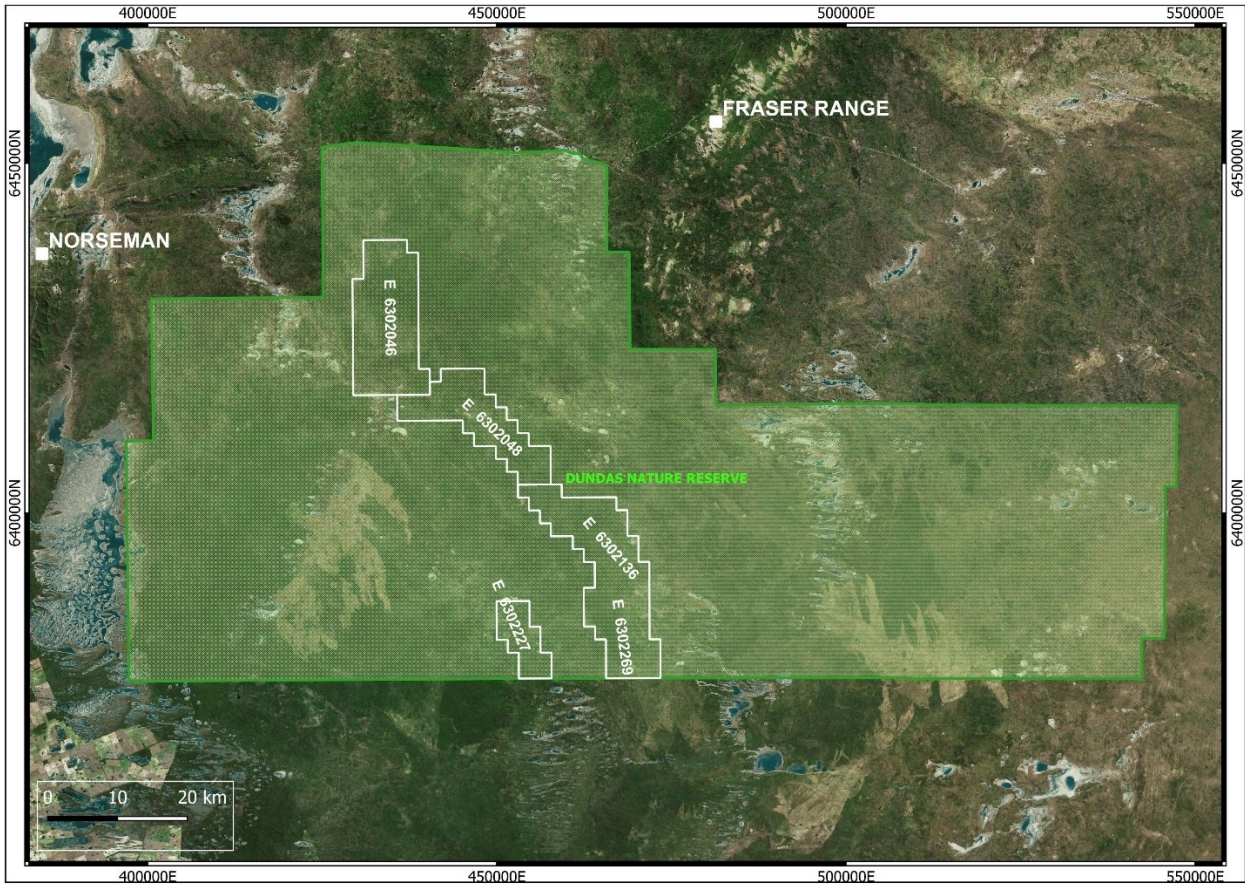


Figure 4 Location of Catalina Resources' Tenements within the Dundas Nature Reserve

The Dundas Project area is situated within the inferred SE extensions of the mineralised Norseman – Wiluna Belt of the Archaean Yilgarn Craton and comprises a tectonostratigraphic assemblage of mafic, ultramafic and sedimentary dominated units. A major northwest trending fault system transects the tenements and may represent the prospective Boulder-Lefroy Fault Zone (BLFZ) and the Zuleika Shear Systems (ZS), illustrated in Figure 5. These shears and faults are highly prospective for gold (Swager et al., 1995). The tenements are also prospective for lithium mineralisation being only 25 kms to the southwest of Liontown's Buldania Lithium Project, also along the Zuleika Shear Zone, Figure 5. Field work and historical reporting has confirmed the presence of pegmatites within the tenements.

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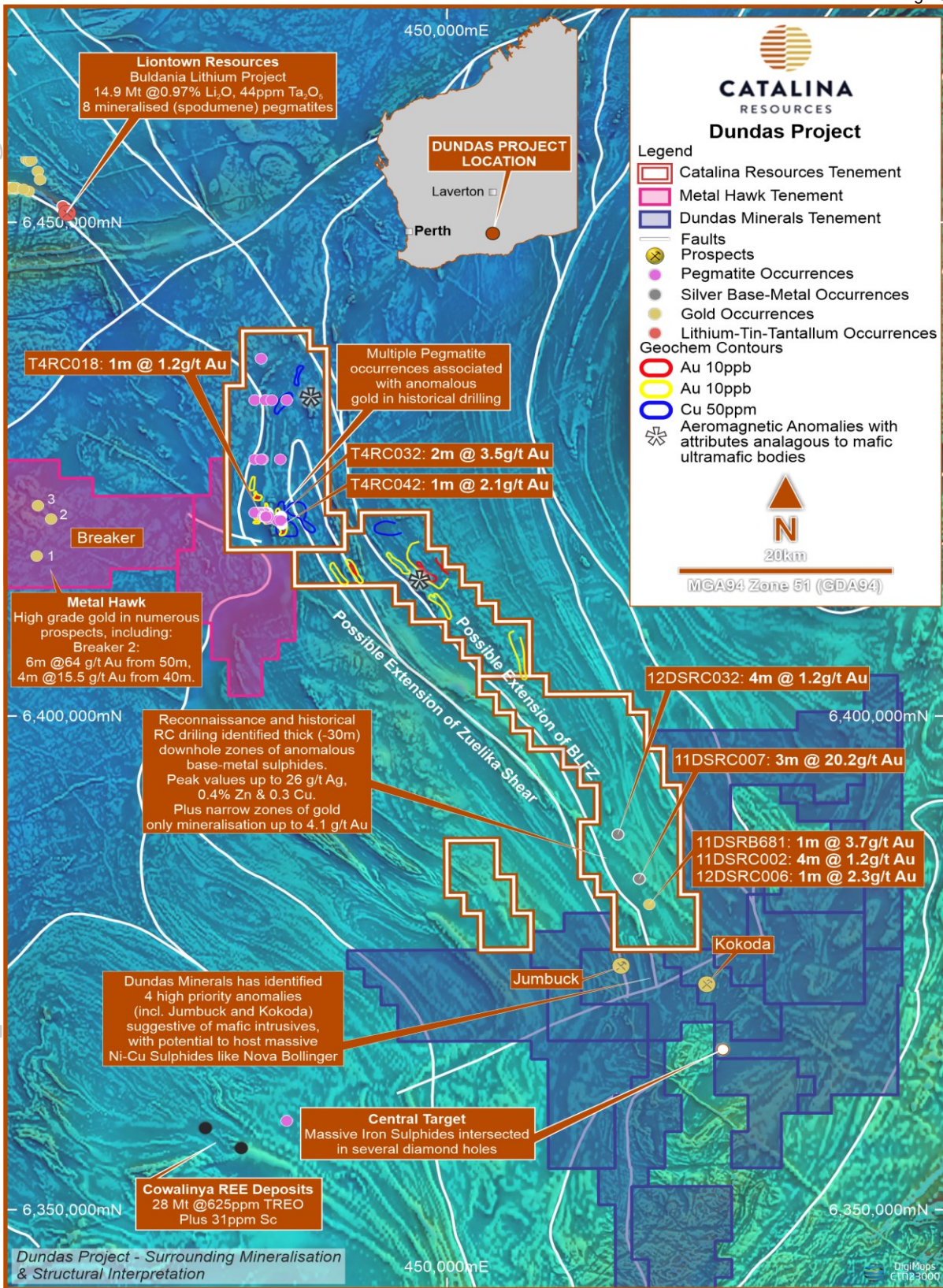


Figure 5. Regional location of Catalina's tenements in the Albany Fraser Belt. Also illustrated are the projects and highlights of respected neighbouring companies including Metal Hawk and Dundas Minerals.

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### **Competent Person Statement**

The review of historical exploration activities and results contained in this report is based on information compiled by Michael Busbridge, a Member of the Australian Institute of Geoscientists, and a Member of the Society of Economic Geologists. He is a Director of Catalina Resources Ltd. He has sufficient experience which is relevant to the style of mineralisation and types of deposits 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 (the JORC Code).

Michael Busbridge has consented 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.

### **References**

<sup>1</sup> Details on the ultrafine soil sampling technique, including study examples, can be found at: <https://research.csiro.au/ultrafine/resources/how-to-guides/>

### **ABOUT CATALINA RESOURCES LIMITED**

Catalina Resources Ltd is an Australian diversified mineral exploration and mine development company whose vision is to create shareholder value through the successful exploration of prospective gold, base metal, lithium, REEs and iron ore projects and the development of these projects into production. The company's portfolio of tenements are located in highly prospective terrains in NSW (Lachlan Fold Belt) and WA (Eastern Goldfields and Albany Fraser Belt).

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