

**Cresswells Transport Pty Ltd**

**EL 9/2020 – Donalds Road**

**Final Report**



**Ken Morrison**  
**18 January 2026**

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## **Summary (see pages 7-9)**

### **Introduction and Tenement Information**

EL 9/2020 was a 13 km<sup>2</sup> Category 3 (Construction Materials) EL located in the Donalds Road area southwest of Roger River (Figure 1). An all-weather 2WD vehicle access via the sealed Roger River Road heading south from Smithton and Donalds Road, and a good quality gravel road heading west from Roger River Road, connect to the eastern boundary of the EL (Figure 1).

The EL was granted to Cresswells Transport Pty Ltd for a 5 year term ending on December 3rd 2025. Cresswells owned 100 per cent of the title and were the sole operators of exploration activities.

Land tenure (Figure 2) comprises freehold pasture in the east, Montague Regional Reserve land to the west and smaller blocks of State Forest preserved for potential timber production in the north-east and north-west. The most prospective portion of the EL, in terms of known geology, environmental and logistical considerations, is the private farmland in the east, in particular the largest paddock area extending furthest to the west (Figure 3).

This report is the Final Report as required by MRT after the expiry of an Exploration Licence. Exploration during the licence term demonstrated a resource of dolomitic limestone of suitable tonnage, grade and consistency to supply the growing demand for agricultural dolomite. A 33hectare Mining Lease, 2115 P/M (Figure 4) covering the resource was granted on the 14<sup>th</sup> June 2024 and Cresswells are proceeding with quarry development and product processing

No further exploration was conducted on EL 9/2020 after the ML was granted. All exploration results, including digital files, are detailed in Annual Reports (Morrison, 2022 and Morrison and Cromer, 2024) and are not repeated in this report.

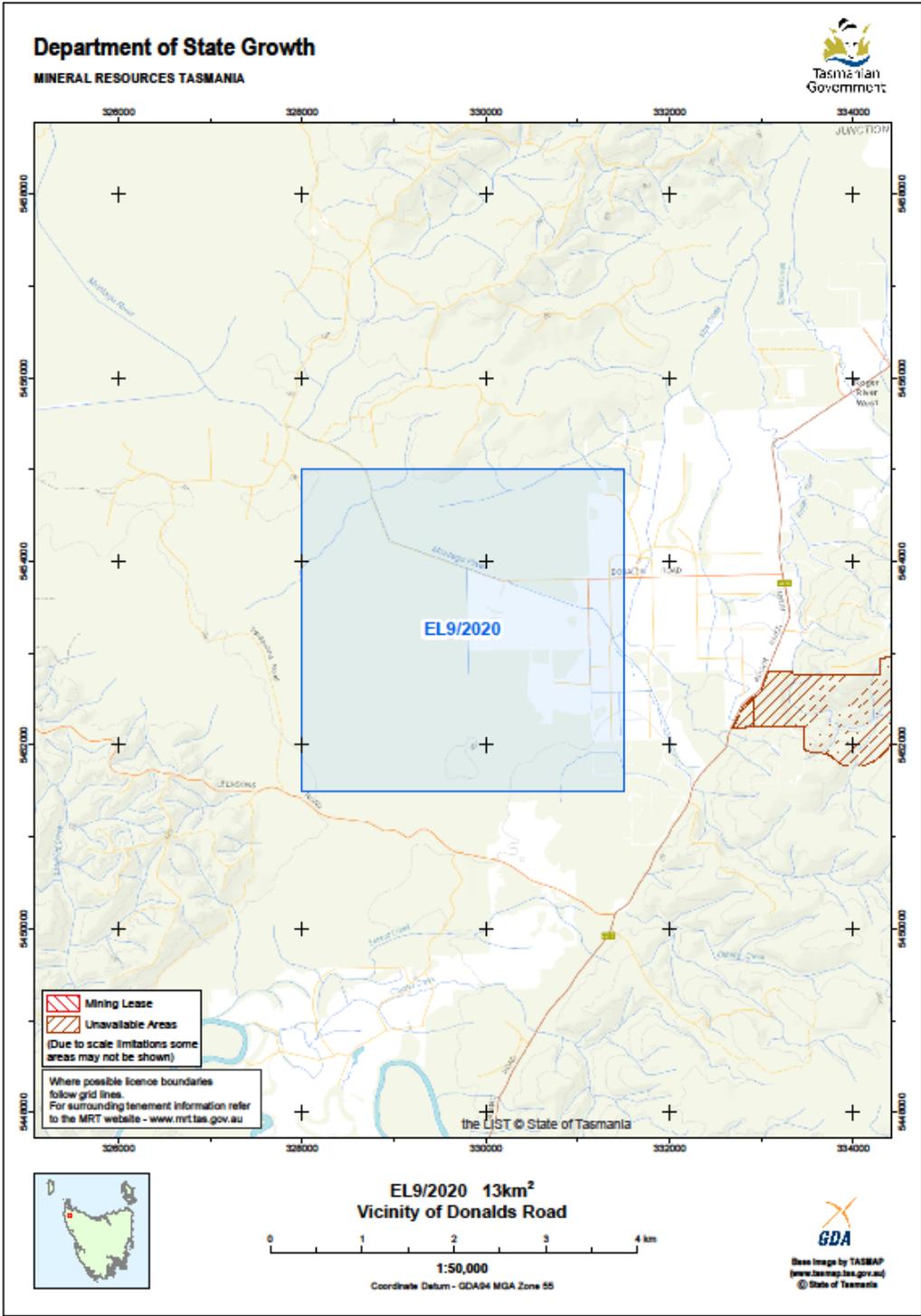


Figure 1. EL 9/2020 Location Map.

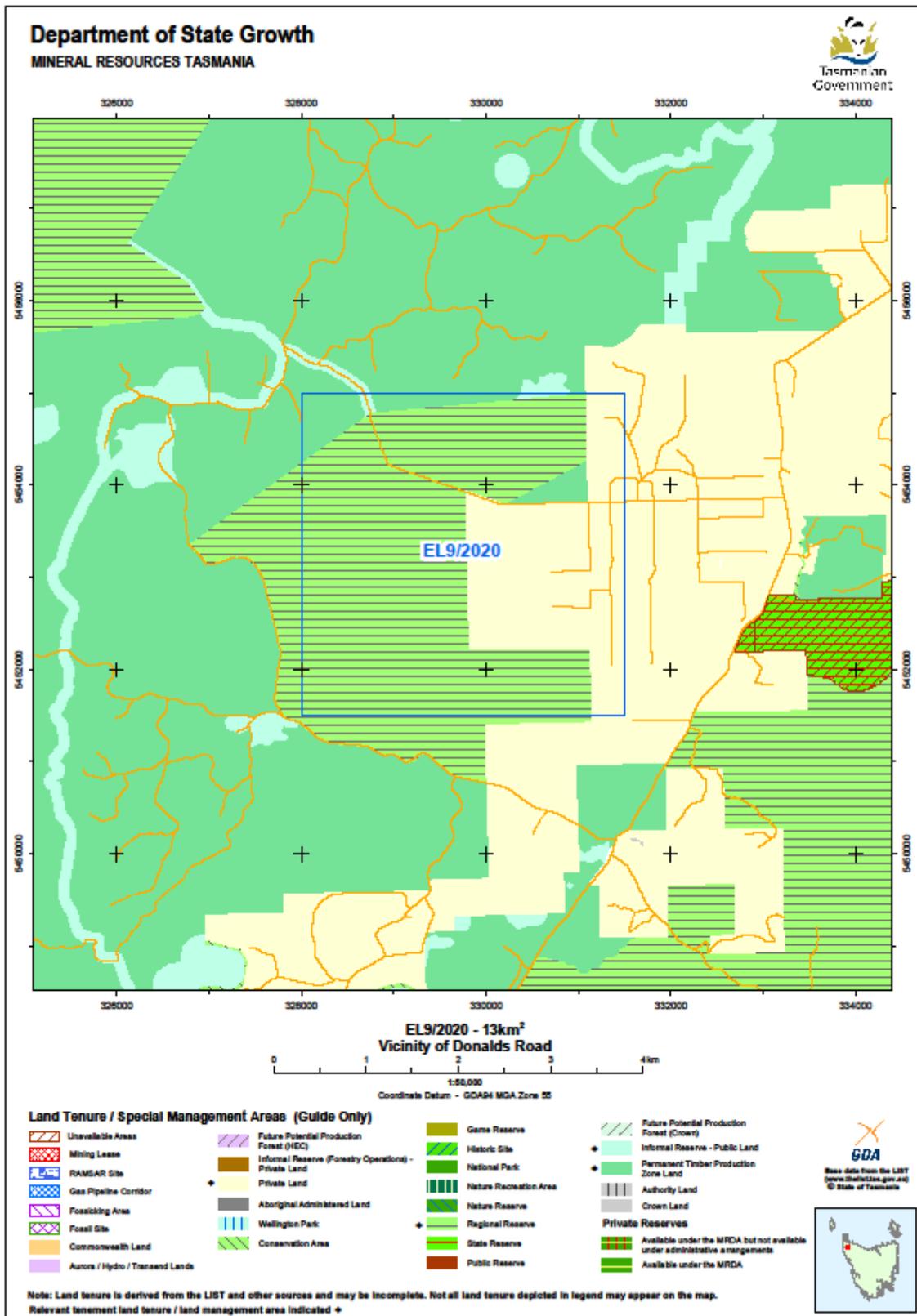


Figure 2. EL 9/2020 Land Tenure Map.

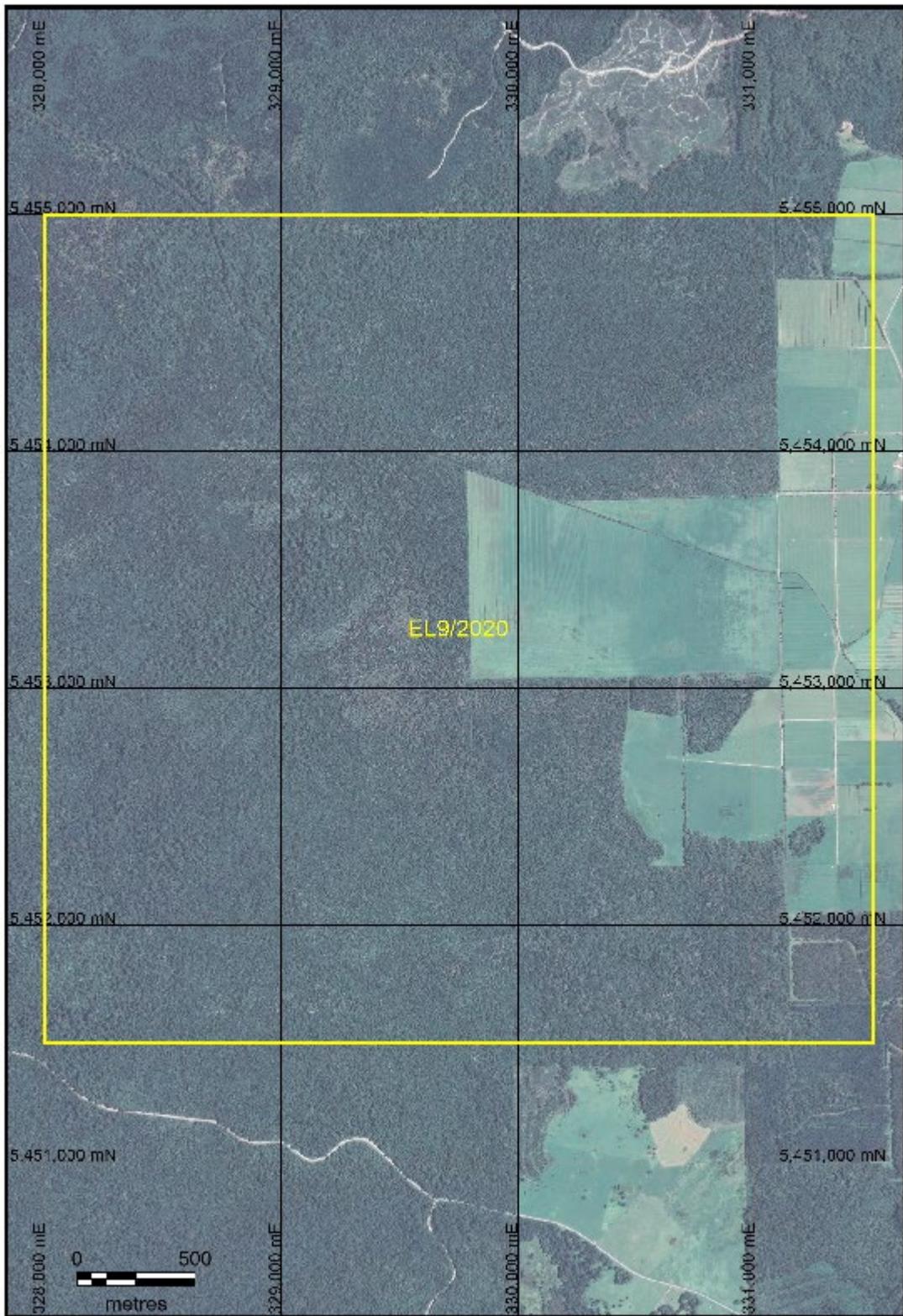


Figure 3. EL 9/2020 Airphoto.

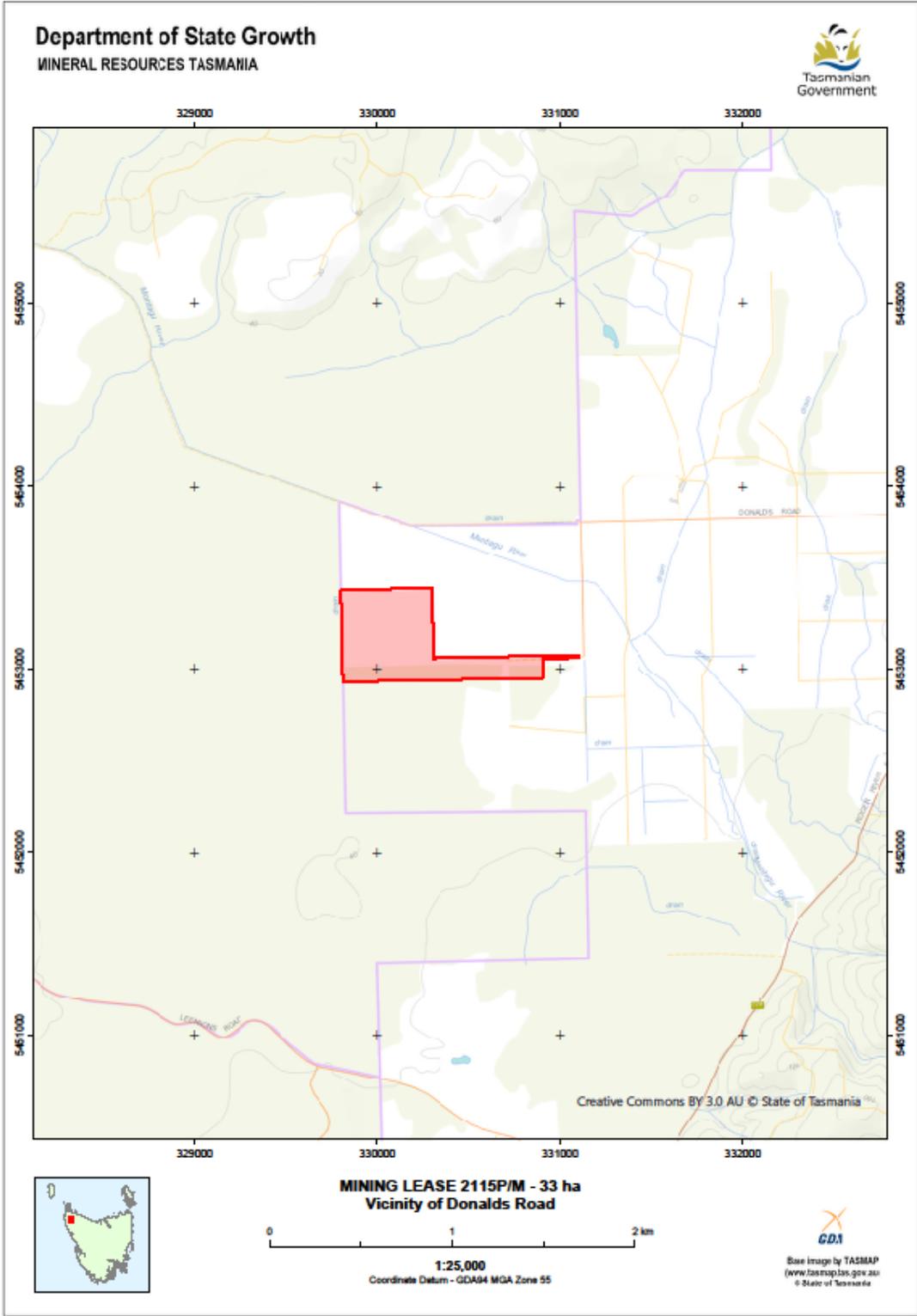


Figure 4. ML 2115P/M

### List of Digital Files

	Filename	File format
Report	EL92020_2026_01_18_Final Report	pdf
File Verification Listing	EL92020_2026_01_18_Filelisting	xls

### Map Coordinates Datum

GDA94 MGA Zone 55.

All point coordinates in this report were taken by hand held GPS

### Geology and Exploration Rationale

The MRT Digital Geological Atlas 1:25,000 Roger Sheet (McClenaghan, et al, 2015) indicates that at the regional scale the EL is entirely covered by a thin layer of Quaternary regolith overlying Smithton Dolomite, a widespread unit in the Smithton Synclinorium, stratigraphically near the top of the Neoproterozoic Togari Group. At the prospect scale numerous small outcrop exposures of apparently high grade dolomitic limestone are exposed in the flat paddock country comprising the eastern portion of the EL (see Cover Page photo).

Cresswells aim to compete in and contribute to an expansion of the agricultural dolomite market in Tasmania. The exploration aim is simply to define a resource of high grade stone in an environmentally benign location with access and quarrying factors favourable to support an economic project. The exploration involved scout prospecting, close spaced drilling and bulk sampling, to determine the bulk rock chemistry and crushing and handling characteristics of run of mine product.

To achieve permitting for operating an environmentally acceptable quarry, studies of hydrological, ground water and karst geology were conducted.

### Review of Previous Exploration

No records of mineral exploration and none specifically for dolomite, dolostone or limestone in the area covered by EL 9/2020 have been found. Given that the prospective part of the EL is flat pasture country entirely underlain by dolostone outcrop and subcrop it is unlikely that documented company exploration for metallic commodities has occurred.

All exploration by Cresswells is documented in the Annual Reports for EL Year 1 (Morrison, 2022) and Year 3 (Morrison and Cromer, 2024), including the results of all drilling and bulk sampling and associated digital files. No exploration was conducted on EL 9/2020 after June 2024, when ML 2115P/M was granted over 33 hectares covering the established resource.

**A summary of the exploration results is outlined below.**

Year 1

A program of pattern drilling 20 vertical rotary air blast percussion holes was completed over an area of approximately 18,000 m<sup>2</sup> at a site approved by the landowner and considered logistically and environmentally ideal for quarry development, if the rock quality proved to be high grade for the target product of agricultural soil conditioning magnesium limestone.

The results delineate a subcropping resource of dolomitic carbonate rock with an inferred footprint area of approximately 150 x 150 metres and a mean thickness of approximately 15 metres. The deposit is open at depth and surface exposures indicate it is open to the north and east of current drilling.

Estimated grade of the product, based on fusion XRF assays of 82 entire rod samples ranges from 94.6% to 98.6% combined MgCO<sub>3</sub>+CaCO<sub>3</sub>. Sufficient resource in terms of rock chemistry has been defined to justify progressing to the next stage of bulk sampling and crushing to evaluate the material handling characteristics and farmer acceptance of the product.

Year 1 expenditure was \$21,500.



**Figure 5. Exploration Drilling.**

### Year 3

A bulk sample pit site was drilled, blasted and excavated in the central part of the high grade dolomitic limestone deposit defined by a previous exploration drilling campaign. The broken rock was crushed on site to produce a stockpile of approximately 400 tonnes of -40mm fragments (Figure 6). Systematic sampling of the stockpile produced a set of representative composite samples which were assayed at ALS by fusion whole rock XRF.

The results indicate a uniform 96-97% CaCO<sub>3</sub>+MgCO<sub>3</sub> grade of agricultural dolomite with 2% contaminant clay, quartz and iron oxide and minor interstitial water. The insitu rock is fractured with three regular joint orientations which result in consistent blast fragmentation and crushing properties. Further crushing trials on the -40mm product will determine the particle grading for agricultural application.

A hydrogeological and ground water management study was completed by William C Cromer Pty Ltd in 2023. The study concluded that from a hydrogeological perspective there is no evidence of issues that should prevent the quarry development proceeding. The only water in the bulk sample pit at the time of the study was from surface runoff rain water and samples of that water returned elevated levels of nitrogen, which may be derived from residue of the ammonium nitrate explosives used in the drill and blast process. When repeat samples were taken several months later the nitrogen levels were substantially reduced.

An agricultural water bore was drilled in November 2023, approximately 300 metres north-east of the bulk sample pit and within the EL boundary. The bore reached a total depth of 126 metres and intersected a minor flow of groundwater at 15 metres and a heavy flow at 120 metres. The 15 metre depth to first groundwater is consistent with the bulk sample pit being dry down to 5 metres. No analytical data from water bore samples are available, however it is expected that this bore and others to be drilled will provide important data on ground water levels and quality during life of the quarry operation.

Year 3 expenditure was \$57,862.



**Figure 6. Bulk Sample and Crusher at the Pit Site.**

### **Environmental Issues**

No environmental damage occurred during the drilling and bulk sampling campaigns and the landowner was satisfied with impact the pit and stockpile make on a small section of land in the corner of the paddock. The wet conditions encountered and the impact of traffic on the access route within the paddock indicate the need for a built up well make gravel road to the site once a mining lease and permit of proceed with quarry development are granted.

Monitoring the ground water quality will be an on-going requirement in both the pit and surrounding bores. The existing farm water bore will be useful in the short term however additional bores will be needed to track the hydrology once the quarry is operating. Any evidence of karst features exposed in the advancing quarry walls will also be documented and reported, and appropriate changes in pit design implemented if required.

## Expenditure

Total expenditure in the 5 year term was \$79,362, in the following categories:

Exploration geology	\$7,400
Land access negotiations	\$2,500
Groundwater and hydrogeology study	\$25,467
Natural values assessment	\$3,630
Exploration drilling	\$8,500
Drilling & blasting	\$13,800
Excavation and crushing	\$9,200
Assays-ALS	\$7,525
Tenement and office costs	\$1,340
<b>TOTAL</b>	<b>\$79,362</b>

## Future Exploration

The EL expired on 3<sup>rd</sup> December 2025.

## References

Cromer, W. C. (2023). *Hydrogeological Report and Groundwater Management Plan, proposed dolomite quarry, Donalds Road, Roger River West. Revision 2.* Unpublished report for Cresswell's Transport Pty Ltd by William C. Cromer Pty Ltd, 20 December 2023. (included as Appendix 1 in this Annual Report).

McClenaghan, M. P., Seymour, D. B., Green, D. C. and Brown, A. V. (compilers) 2015. Digital Geological Atlas 1:25000 Scale Series. Sheet 3245 Roger. Mineral Resources Tasmania.

Morrison, K. C. 2022. Cresswells Transport Pty Ltd, EL 9/2020 Donalds Road Year 1 Annual Report.

Morrison, K. C. and Cromer, W. C. 2024. Cresswells Transport Pty Ltd, EL 9/2020 Donalds Road Year 3 Annual Report.