

FINAL REPORT ON EXPLORATION TO 6 AUGUST 2021.

EXPLORATION LICENCE: 16 / 2017

BRITTONS SWAMP – TOGARI

Compiled by			
Company:	Integrated Land Management & Planning		
Address:	PO Box 1441 Lindisfarne TAS 7015		
Contact:	Barry Williams	Phone:	0437 394 492

Compiled for			
Company:	Cresswells Transport Pty Ltd		
Address:	PO Box 310 DELORAINE Tas 7304		
Contact:	Tony Cresswell	Phone:	0418 131 342

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1 ABSTRACT:

This report provides an overview of the work carried out by Cresswells Transport Pty Ltd on Exploration Licence 16 / 2017 for the period between issue of the licence, 06 August 2018 and the anniversary date, 06 August 2021. Lodgement of this report is in response to a request for a final technical report to accompany an application to surrender.

1.1 OBJECTIVE

The exploration objective was to confirm the presence of commercial quantities of high-grade agricultural dolomite in a location offering:

- Extraction without excessive overburden using standard drill and blast techniques
- Remote from sensitive uses including residences and vulnerable agricultural operations.
- Unconstrained access to a high-quality freight route.

1.2 METHODOLOGY

Previous work had proven the resource and testing confirmed the quality was within target parameters. Discussions with the landowner revealed plans to further develop the site by constructing a dairy building and most likely a residence nearby.

Work during this period consisted of contact with the landowner, confirmation of development plans and investigating alternative sites.

1.3 RESULTS

The results of contact with the landowner confirmed the intention to develop the site by constructing a dairy close to the accessible portion of the resource.

1.4 RECOMMENDATIONS

It is recommended that further development of this resource does not proceed on the basis that:

- A blasting quarry that also employs primary, secondary and tertiary crushers and screens would not be sympathetic with the dairying operation. Noise from blasting and the crusher circuit as well as the movement of vehicles, people and machinery is likely to disturb the cows.
- The existence of a quarry operation may constrain future potential for the landowner to construct other infrastructure including housing on the site.

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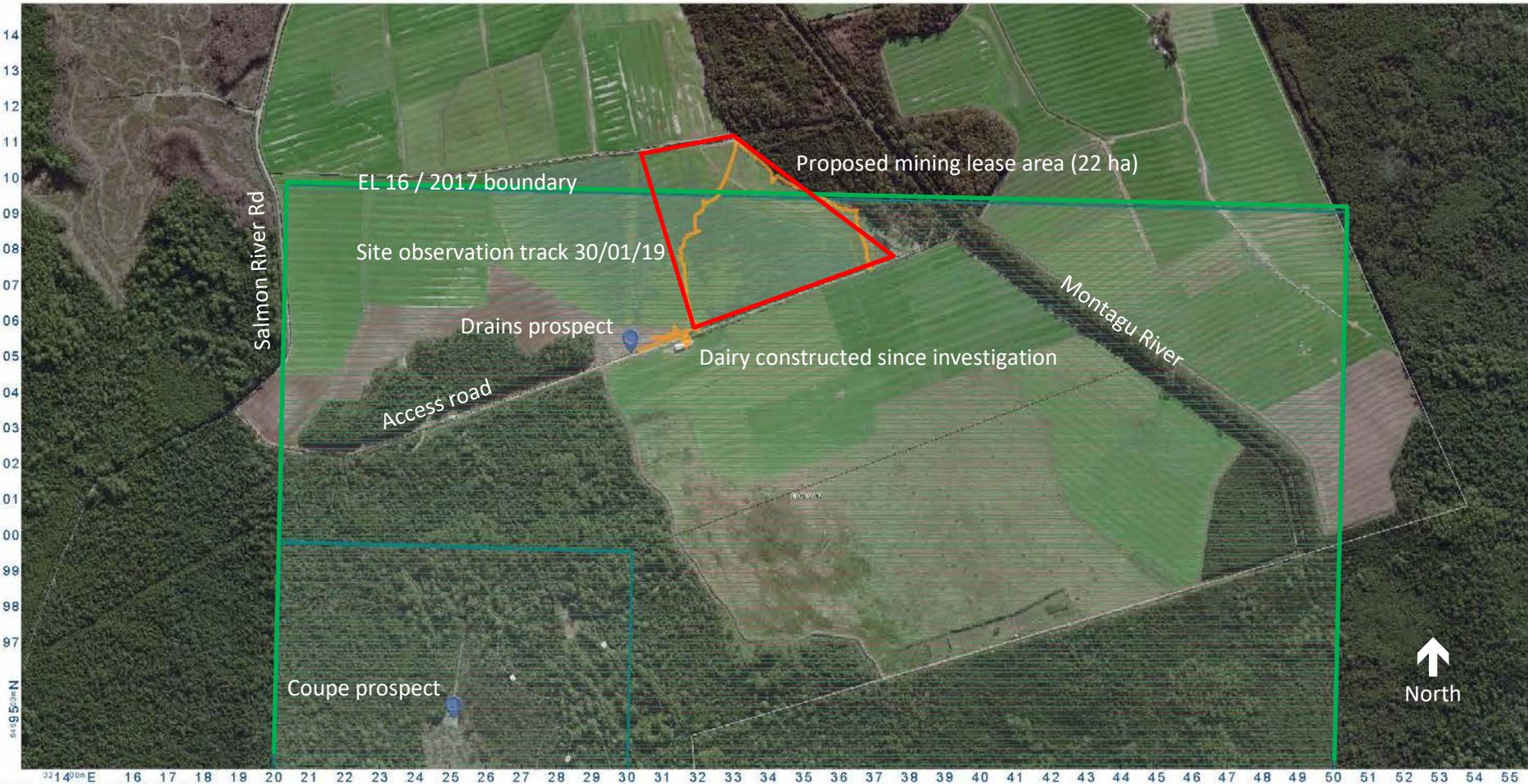


FIGURE 1: EL 16 / 2017 SITE INVESTIGATION 2019
Aerial image (The LIST) - showing prospective areas and mining lease area.
Drawn: BW, Date: Nov 2020, Revision: 0



2 INTRODUCTION:

TABLE 1: TENEMENT DETAILS

Exploration Licence	16 / 2017
Name	Brittons Swamp
Location	9 km southwest of Brittons Swamp
Reporting period	06/08/2019 to 05/08/2020
Licence holder	Cresswells Transport Pty Ltd

An application was submitted for Exploration Release Area 1063 plus an additional EL area on 24 July 2017. On 6 August 2018 exploration licence EL16/2017 was granted for a period of 5 years.

The mineral category for EL16/2017 is Category 3 & 5 taking into account the potential for the product to be used for construction material, agricultural soil ameliorant and metallurgical applications.

3 REVIEW OF PREVIOUS WORK

A significant amount of exploration work was undertaken by the previous tenement holder including rock chip sampling and percussion drilling. This work was reviewed by the geologist and informed the case to win the tenement in the ERA process.

Two prospects were investigated for feasibility in establishing an extractive pit:

- Drains prospect, is located in land cleared for grazing stock which has had a series of drains cut into the surface to allow the land to drain naturally to the Montagu River.
- Coupe prospect, is located in neighbouring Permanent Timber Production Zone Land.

The results of previous investigations both by others and prior to this period revealed that the drains prospect had a higher likelihood of easily accessible high-grade rock, whereas the coupe prospect was less certain and most likely lower grade.

3.1 DURING THE LIFE OF THIS LICENCE

During the licence period the following background work has been undertaken:

- Reviewing both prospects for resource definition and grade by rock chip sampling and in field basic dilute acid analysis.
- Detailed consultation with Landowner with respect to access arrangements, shared infrastructure, extent of extractive activities and post mining land use.

4 EXPLORATION WORK COMPLETED DURING THIS PERIOD

The following works have been undertaken to inform the development of the current work program application:

- Further discussions with the landowner, confirmation the landowners in tent and subsequent preparations to surrender the licence.

5 DISCUSSION OF RESULTS

Although the Landowner was supportive of the concept of extracting dolomite from the site, discussions during this visit revealed that a dairy was proposed to be constructed close to the most appropriate access point to the dolomite resource.

Drilling and blasting activities could potentially cohabit the site with dairy activities with some consideration from both parties, however, further discussions with the Landowner revealed the company operating the farm and dairy intended to construct a residence for dairy workers. The residence would be too close to an extractive pit where blasting was planned.

6 FUTURE EXPLORATION WORK

The previous report stated that if the plans to further develop the site were confirmed consideration would be given to an alternative site at Donalds Road Roger River. The development plans were confirmed and an application for an exploration licence over the Roger River site was approved (EL 9 / 2020).

7 ENVIRONMENTAL MANAGEMENT

Site access was not required to facilitate communication between the Licensee and the Landowner, no environmental management was required.

Previous works were confined to remote analysis of previous drilling records and reports, remote analysis of public spatial databases for land tenure, natural values and statutory status investigations. A single site visit was undertaken using hygiene protocols (DPIPWE, 2015) (NRM South, March 2010) and no tenement closure or rehabilitation work is required or has been requested.

8 EXPENDITURE

TABLE 2: EXPENDITURE 2020 PERIOD

	Item	Activity	Amount
1.	Geoscience		
	Geology		0
	Geochemistry		0
	Geophysics		0
	Remote sensing	Evaluating sites and preparing proposals	15 600
2.	Drilling & gridding		
	Gridding		0
	Drilling		
3.	Land access		
	Land access	Contact with Landowner on several occasions	1 500
4.	Rehabilitation		
	Works	No disturbance	0
5.	Feasibility studies		
	Site access		0
	Critical constraints	Access critical constraints analysis	1 900
		Aboriginal heritage desktop study request	
6.	Other		
	Equipment	Phytoclean, cleaning equipment consumables, vehicle hire	2 700
7.	Administration		
	Rental fees		1 500
8.	Total exploration costs (period 2020)		23 200

TABLE 3: EXPENDITURE 2021 PERIOD

	Item	Activity	Amount
1.	Geoscience		
	Geology		0
	Geochemistry		
	Geophysics		0
	Remote sensing	Interrogate satellite and aerial imagery	0
2.	Drilling & gridding		
	Gridding		0
	Drilling	On-ground percussion drilling to prove coupe prospect	0
3.	Land access		
	Land access	Liaison with Landowner & Sustainable Timber Tas	2 500
	Ecological assessment	Ecological field survey and values assessment report if disturbance in native vegetation is likely.	2 500
4.	Rehabilitation		
		Rehabilitate any trackwork associated with access or percussion drilling.	0
5.	Feasibility studies		
		Reconnaissance survey to prove access for test sampling	0
6.	Other		
	Equipment	Drill rig to test quality and depth of resource	0
7.	Administration		
	Rental fees		1 500
8.	Total exploration costs (period 2021)		6 500

9 REFERENCES

DPIPWE. (2015). *Weed and Disease Planning and Hygiene Guidelines - Preventing the spread of weeds and disease in Tasmania*. Hobart: DPIPWE.

NRM South. (March 2010). *Keeping it Clean: A Tasmanian Field Manual to Prevent the Spread of Freshwater Peasts and Pathogens*. Hobart: NRM South.