

1. Introduction to Mining Project

This *Rehabilitation Management Plan* (RMP) has been prepared by R.W. Corkery & Co. Pty. Limited (RWC) on behalf of Tritton Resources Pty Ltd (the “Company”), a wholly owned subsidiary of Aeris Resources Limited for the Murrawombie Copper Mine (the “Mine”). The Mine is located west of the village of Girilambone within the Bogan Local Government Area (LGA) in central west NSW (**Figure 1**). The principal mineral authority for the Mine is Mining Lease (ML)1280. For the purpose of this document, the area covered by ML1280 is referred to as the “Mine Site” (see **Figures 1** and **2**).

The Mine is one of four operational mines within the vicinity of Girilambone that are owned and operated by the Company, collectively referred to as the Tritton Copper Operations (see **Figure 1**). For the purposes of this RMP, the Tritton Copper Operations consists of:

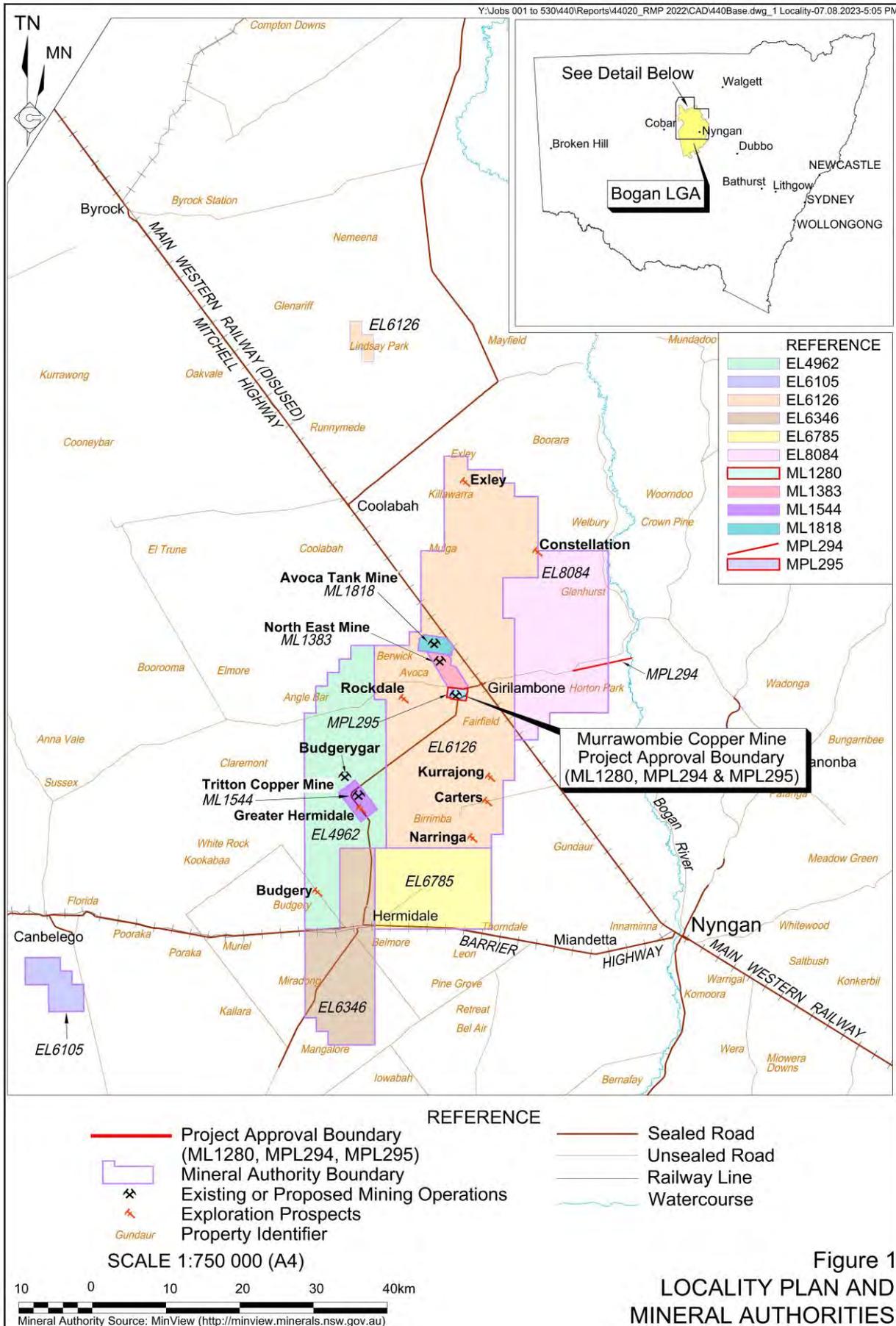
- the Tritton Copper Mine;
- the Murrawombie Copper Mine;
- the North East Copper Mine; and
- the Avoca Tank Project,

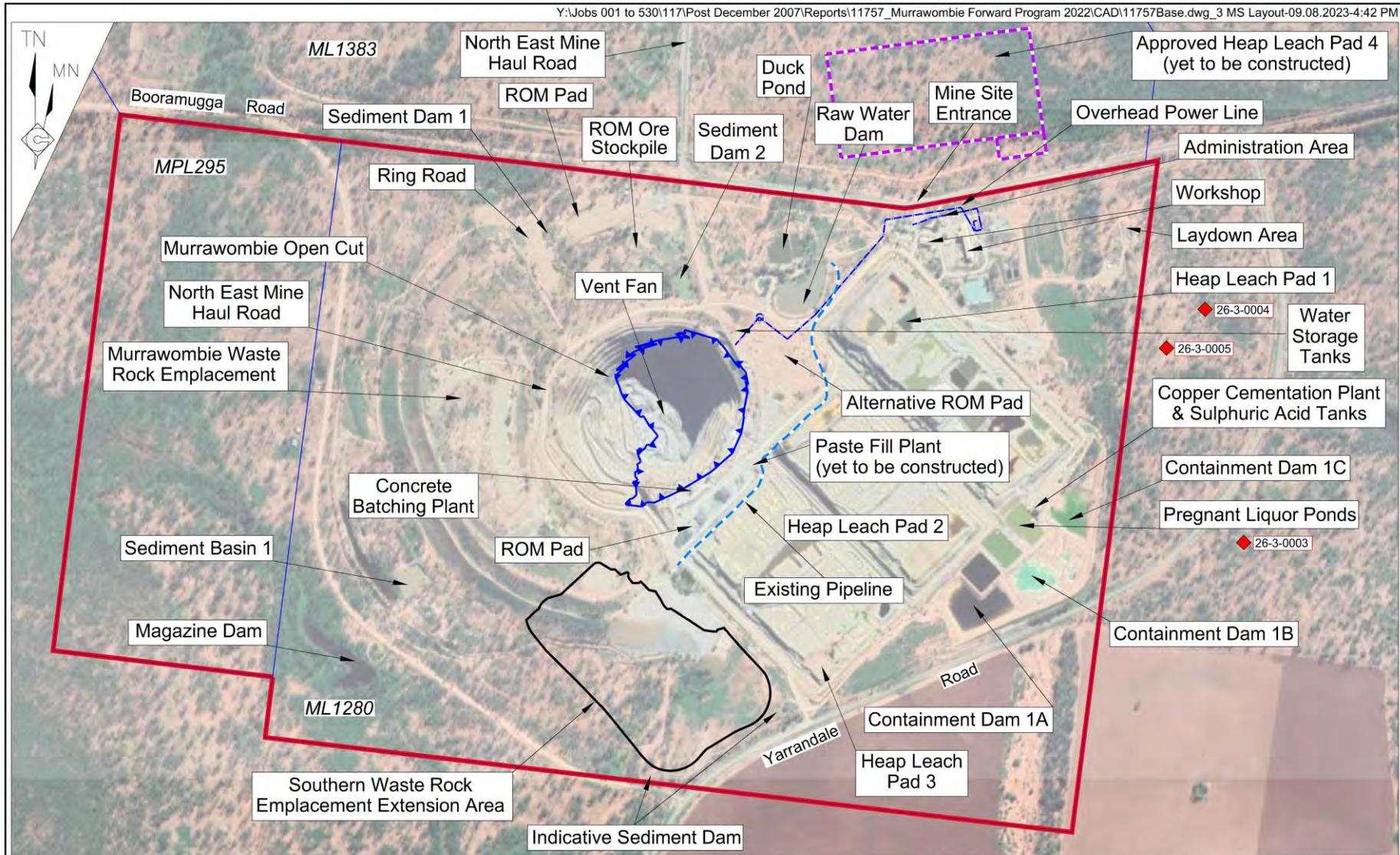
In general, all mines within Tritton Copper Operations are managed in parallel where practicable; as such, many existing assessments, approvals, and management plans may apply to multiple or all mines within the Tritton Copper Operations. This RMP relates only to the management of rehabilitation within the Mine Site (i.e. the Murrawombie Copper Mine).

It should be noted that Mining Purpose Leases (MPL) 294 and 295 are held by the Company and are associated with the Mine Site. MPL295 was granted 6 August 1992 under the *Mining Act 1973*; however, no mining-related disturbance associated with the Mine Site and/or the Company has occurred within MPL295. MPL294 was established for the purposes of a section of a water supply pipeline to the Mine Site and associated pumping facilities. Disturbance associated with the construction of the water supply infrastructure was completed as part of site establishment. No other mining-related disturbance occurs within MPL294. The three leases associated with the Mine are held under a joint rehabilitation security. Lastly, approval exists for the construction and use of a heap leach pad directly north of the Mine Site within ML1383, the principal mining lease for the North East Copper Mine. That heap leach pad has not been constructed, and therefore is not addressed further in this Plan. Notwithstanding the above, this Plan only relates to the rehabilitation of mining-related disturbance within ML1280.

The RMP is intended to provide a summary of current plans for progressive and final rehabilitation of the Mine and a practical guide to rehabilitation planning for site personnel. The RMP provides the following information.

- Introduction to the Mine (Section 1).
- Final land use information including regulatory requirements (Section 2).
- A summary of the current rehabilitation risk assessment outcomes (Section 3).





SCALE 1:15 000 (A4)
 250 0 250 500m
 Base Photo Source: Google Earth (11 May 2020)

REFERENCE
 — Project Approval Boundary
 — Mineral Authority Boundary
 ◆ 26-3-0003 AHIMS Heritage Site

Figure 2
MURRAWOMBIE MINE SITE LAYOUT

- A statement of the Company’s rehabilitation objectives and the completion criteria that must be satisfied before rehabilitation is considered complete (Section 4).
- Final landform plans (Section 5).
- An overview of the planned implementation of progressive and final rehabilitation (Section 6).
- A summary of how rehabilitation quality will be maintained (Section 7).
- An overview of intended rehabilitation monitoring (Section 8) and ongoing research and trials (Section 9).
- A summary of the Company’s management approach including a trigger action response plan (Section 10) and procedures for review and update of the plan (Section 11).

This RMP has been prepared in accordance with the following documents and guidelines.

- *Form and Way: Rehabilitation Management Plan for Large Mines (July 2021).*
- *Form and Way: Rehabilitation Objectives, Rehabilitation Completion Criteria and Final Landform and Rehabilitation Plan for Large Mines (July 2021).*
- *Guideline 1: Rehabilitation Risk Assessment (July 2021).*
- *Guideline 2: Rehabilitation Records (July 2021).*
- *Guideline 3: Rehabilitation Controls (July 2021).*
- *Guideline 5: Rehabilitation Objectives and Rehabilitation Completion Criteria (July 2021).*

1.1 History of Operations

Historical Mining Activities

The Girilambone copper deposits were first discovered in 1879 with mining commencing in the vicinity of what is now Girilambone village in 1881. Mining of other known deposits such as Budgerygar and Budgery (see **Figure 1**) occurred throughout 1906 to 1908 and 1920, respectively. Other minor historical mining operations are known to have occurred sporadically throughout the 20th century. Several other historic mining areas are known to be located throughout the area.

The Girilambone Copper Company (GCC), a Joint Venture between Tritton Resources Pty Ltd (60%) and Nord Pacific Ltd (40%) was formed in 1992, following development of the (then) Girilambone Copper Mine (now the Murrawombie Copper Mine), to undertake mineral exploration within relatively close proximity to the existing mine.

The Murrawombie Copper Mine

The Mine is located approximately 3.5km west of the village of Girilambone (**Figure 1**). Operations at this mine commenced under Development Application (DA) 1/91 and ML1280 in 1992. The development consent was issued by Bogan Shire Council and does not contain an expiry date. Relinquishment of ML1280 is expected to be in 2033. The Mine operates in accordance with the conditions of development consent, the mining lease and Environment Protection Licence (EPL) 4501.

1.1.1 Mining Activities

The Mine operation comprises an open pit (Murrawombie Open Pit), a decline portal to the Murrawombie underground mine, a heap leach copper extraction circuit, and maintenance and administrative infrastructure and activities. Mined ore is transported to the run of mine (ROM) pad at the surface where it is stored prior to being hauled via Yarrandale Road to the Tritton Copper Mine for processing (**Figure 1**). The heap leach circuit continues to operate producing copper using the cementation method. The development consent for the Mine includes approval for ore processing activities that were used prior to the commencement of processing at the Tritton Mine. All ore mined at the Mine is transported to the Tritton Copper Mine for processing.

In 2007, development consent was received for mining by underground methods, which have continued to occur on a campaign basis. In preparation for underground operations, the Company constructed an entrance portal and decline ramp in the north-eastern wall of the open cut. Underground workings have continued to an elevation of approximately -310m AHD or 510m below ground level. On-site recovery of copper from leachate has continued utilising the existing Heap Leach Pads and a newly refurbished copper cementation plant. The existing administration and workshop area have remained in use by the Company including as a base for mining operations at the North East Mine and Avoca Tank Project.

On 2 November 2015 approval was received to extend the open cut laterally by approximately 50m and increase the final depth to 35m AHD or 155m below the surface level. Ancillary activities associated with the extension of the open cut included development of a southern extension to the Murrawombie Waste Rock Emplacement and development of an alternative ROM Pad. A minor modification to DA 1/91 was approved on 19 April 2016 to confirm the ongoing use of the existing ROM Pad prior to construction of a relocated ROM Pad and the correction of minor typographical errors in the consent. The most recent modification to DA 1/91 was granted 2 February 2023 for the relocation and/or modification of site infrastructure and surface operations to facilitate the extension of the Open Cut.

A separate approval (DA 10/2018/027/001) applies to the Murrawombie Mine for the construction and use of a paste fill plant utilising tailings material imported from the Tritton Mine. Construction of the paste fill plant has previously commenced, however has been temporarily suspended until required.

1.1.2 Rehabilitation

To date, rehabilitation has focused on approximately 42.6ha of the Murrawombie Waste Rock Emplacement. The Murrawombie Waste Rock Emplacement was largely complete by 2000, and was progressively rehabilitated during construction. The extended southern area of the

Murrawombie Waste Rock Emplacement remains operational and therefore not able to be rehabilitated. The Company is currently utilising this waste rock for Cemented Rock Fill (CRF) activities to support underground mining at the Mine Site. Stockpiled material may be used for closure of the Heap Leach Pads, if required.

Other areas rehabilitated as of 2023 also included low grade gold and copper stockpiles, a ROM pad and the crushing and screening plant area.

A rehabilitation monitoring report focusing on the Murrawombie Waste Rock Emplacement was completed in September 2020, where the overabundance of herbivores (particularly goats and macropods) was identified as a rehabilitation issue with a high management requirement priority. The report also identified a low abundance and diversity of endemic tree species on some areas of woodland rehabilitation as well as a lack of litter, perennial groundcover and total ground cover as rehabilitation issues associated with long-term management outcomes.

The Company have undertaken a small-scale laboratory rehabilitation trial on the Heap Leach Pads to investigate the opportunity to significantly improve the geochemistry of the heap leach material using Soda Ash Brine (SAB) as a precursor step in final closure and rehabilitation of the Heap Leach Pads. Between 2017 and 2020 RGS Environmental Pty Ltd (RGS) completed geochemical assessment work on the Heap Leach Pads material. Laboratory scale tests have shown the SAB to be suitable as an alkaline solution to flush the heap leach material and shut down the acid leach process. In August 2021, the Environment Protection Licence (EPL) 4501 was amended to allow for a field trial use of the SAB within the Heap Leach Pads (refer Section 9.1.2). The trial commenced in November 2021, however, has now been cancelled due to the NSW EPA.

A conceptual capping design has been prepared for the Heap Leach Pads. Further information is presented in Section 6.2.3.3.

1.2 Current Development Consents, Leases and Licences

Table 1 presents the consents, authorisations and licences held in relation to the Mine.

Table 1
Consents, Leases and Licences

Page 1 of 2

Consent/Licence	No.	Grant Date	Expiry Date	Purpose of Approval
Environment Protection Licence	4501	13/12/1999	N/A	Mining (other than coal). This licence covers both the North East Mine and the Murrawombie Mine.
Development Consent	1/91	25/03/1991	25/03/1996	Original Development Approval for the Murrawombie Open Cut and Underground Mine.
	5/95	21/09/1995	N/A	Ancillary works associated with the original Murrawombie Development Approval.
	2010/022	13/9/2010	13/9/2015	Subdivision of Booroomugga Road which intersects the Murrawombie mining area.
	2010/029	04/11/2010	04/11/2015	Construction of a Communication Tower at Murrawombie.
	10/2018/027/001	07/11/2018	07/11/2023	Construction of a Paste Fill Plant
Development Consent Modification	1/91 MOD 1	13/12/2007	N/A	Underground mining of copper sulphide deposits beneath the existing Murrawombie Open Cut, production of copper cement using the existing heap leaching process and transportation of up to 1Mtpa of copper ore to the Tritton Copper Mine for processing ¹ .

Table 1 (Cont'd)
Consents, Leases and Licences

Page 2 of 2

Consent/Licence	No.	Grant Date	Expiry Date	Purpose of Approval
Development Consent Modification	1/91 MOD 2	2/11/2015	2/11/2020	Extension to the open cut pit, extension of the Murrawombie Waste Rock Emplacement and relocation of the ROM pad.
	1/91 MOD 3	19/04/2016	19/04/2021	Confirmation of ongoing ROM Pad use and correction of typographical errors in the consent.
	1/91 MOD 4	2/2/2023	2/02/2028	Minor changes to on-site infrastructure and operations to support ongoing Open Cut and Underground mining.
Mining Lease	1280	06/08/1992	05/08/2034	Mining for Minerals (Copper, Gold and Silver)
Mining Purpose Lease	294	06/08/1992	05/08/2034	Access for the purpose of operation of a water access pipeline ancillary to mining operations with ML1280 and ML1544.
Mining Purpose Lease	295	06/08/1992	05/08/2034	Ancillary area for mining activities
Note 1: This approval permitted a combined, maximum total of 1Mtpa of copper ore to be transported from the North East Open Cuts and Underground Mine and the Murrawombie Open Cut and Underground Mine to the Tritton Copper Mine.				
Source: Tritton Resources Pty Ltd				

1.3 Land Ownership and Land Use

Table 2 presents the land ownership for land within and adjacent to the Mine Site, as well as for land within MPL294 and MPL295. In summary, land within the Mine Site consists predominantly of freehold land owned by the Company and a small section of Crown land comprising of a Travelling Stock Reserve (Lot 7001 DP 1026710) and the Yarrandale Road reserve (**Figure 3**). The closest residences to the Mine Site are part of Girilambone Village, located approximately 2.5km to the east.

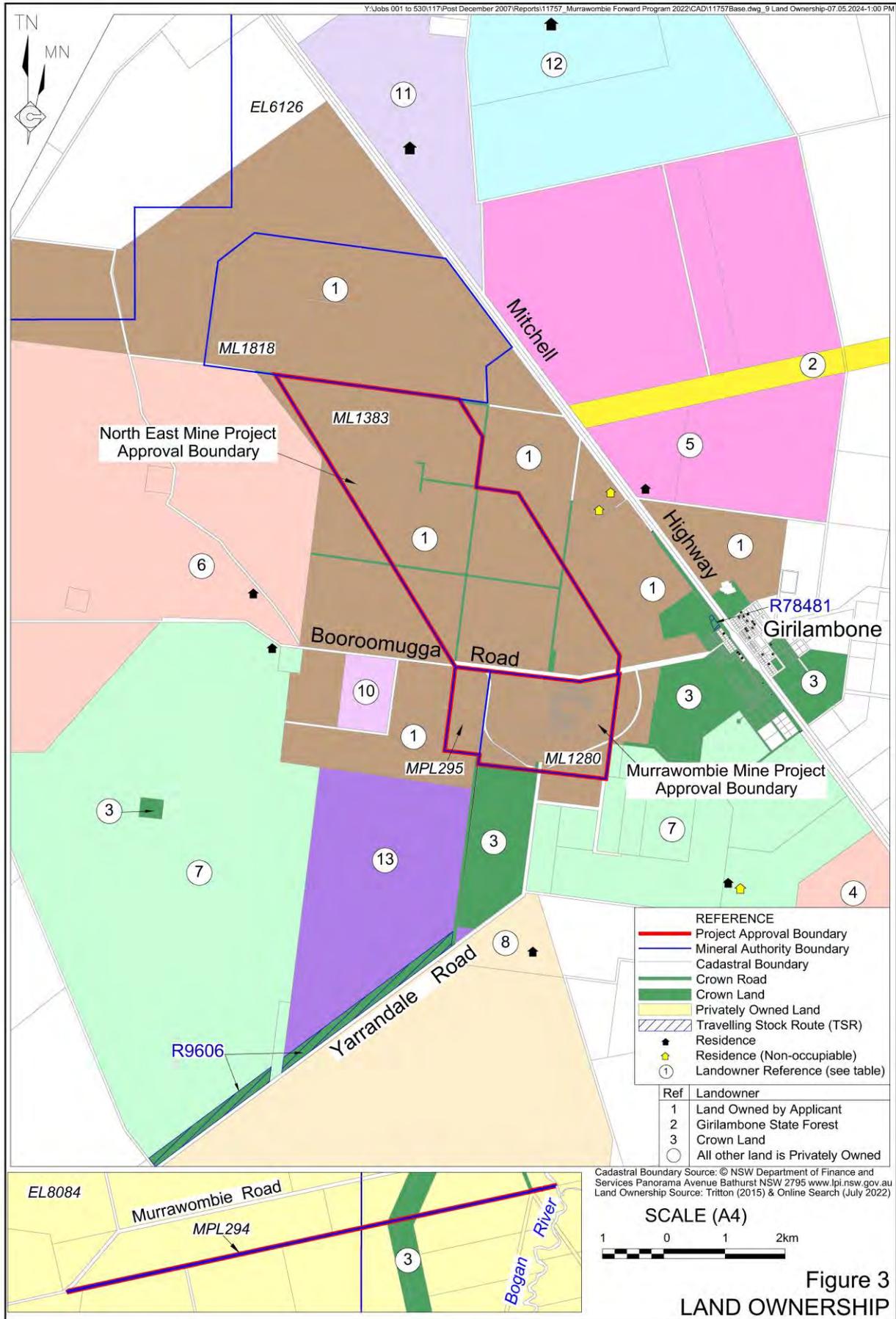
Land uses within and surrounding the Mine Site include the following (**Figure 4**).

- Mining –including mines associated with the Tritton Copper Operations.
- Agriculture – land within and surrounding the Mine Site has been or is currently being used for agricultural purposes, principally, cropping and sheep and cattle grazing. A range of agricultural properties include residences.
- Native vegetation forestry – The Girilambone State Forest occupies an area to the northeast of the Mine Site.
- Transportation – a range of State and local roads exist in the vicinity of the Mine Site, including Mitchell and Barrier Highways. The disused Main Western Railway is located to the east of the Mitchell Highway.
- Village residential – the village of Girilambone is located approximately 2.5km to the east of the Mine Site.

Proposed final land uses for the Mine Site are detailed in Section 2 of this RMP. In summary, it is proposed that principal final land uses will represent nature conservation (native ecosystems) and agricultural land (grazing).

Table 2
Land Ownership

Lot	Deposited Plan	Tenure	Owner	Leases
Mine Site				
A	317665	Freehold	Private Individual	ML1280
B	317665	Freehold	Private Individual	ML1280
3/6	986	Freehold	Private Individual	ML1280
18	4472	Freehold	Private Individual	ML1280
1, 2, 3	1151065	Freehold	Nord Australex	ML1280
1/1, 2/1, 3/1, 4/1, 5/1 6/1, 7/1, 8/1, 9/1, 10/1, 1/2, 2/2, 3/2, 4/2, 5/2, 6/2, 7/2, 8/2, 9/2, 10/2, 1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7/3, 8/3, 9/3, 10/3, 7/4, 8/4, 9/4, 10/4, 1/5, 3/5, 4/5, 5/5, 6/5, 7/5, 8/5, 9/5, 10/5, 1/6, 2/6, 6/6, 1/7, 1/8, 1/9, 1/10, 2/10, 3/10, 4/10, 5/10, 6/10, 7/10, 8/10, 9/10, 10/10, 1/11, 2/11, 3/11, 4/11, 5/11, 6/11, 7/11, 8/11, 9/11, 10/11, 11/11, 1/12, 1/13, 5/14, 6/14, 7/14, 8/14, 9/14, 10/14, 11/14, 5/15, 6/15, 7/15, 8/15, 9/15, 10/15, 11/15, 1/16, 2/16, 3/16, 4/16, 5/16, 6/16, 7/16, 8/16, 9/16, 10/16	986	Freehold	Straits Mining	ML1280
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20	4472	Freehold	Straits Mining	ML1280
21	920633	Freehold	Straits Mining	ML1280
22	920633	Freehold	Straits Mining	ML1280
22	861603	Freehold	Straits Mining	ML1280
2	833281	Freehold	Straits Mining	ML1280
1	822428	Freehold	Straits Mining	ML1280
300, 302, 303, 304, 305, 306, 308	1161667	Freehold	Straits Mining	ML1280
2, 56, 57, 111, 123	751315	Freehold	Straits Mining	ML1280
1/4, 1/5, 1/6, 1/8, 1/14, 2/14, 3/14, 4/14, 1/15, 2/15, 3/15, 4/15,	986	Freehold	Tritton Resources	ML1280
1	822427	Freehold	Tritton Resources	ML1280
3	751315	Freehold	Tritton Resources	ML1280
7001	1026710	Crown Land	The State of NSW	ML1280
Land Adjacent to the Mine Site				
11	858163	Freehold	Straits Mining	ML1383, ML1280
22	861603	Freehold	Straits Mining	ML1383, ML1280
35	864483	Freehold	Straits Mining	ML1280
33	751315	Freehold	Straits Mining	ML1280
34	864483	Freehold	Straits Mining	ML1280
301	1161667	Freehold	Straits Mining	ML1280
11	751315	Freehold	Tritton Resources	ML1280
1	827919	Freehold	Tritton Resources	ML1280
30	751315	Freehold	Tritton Resources	ML1280
13	751315	Freehold	Tritton Resources	ML1280
12	858163	Freehold	Tritton Resources	ML1280
117	751315	Freehold	Private Individual	ML1280
1	46859	Crown Land	The State of NSW	ML1280
MPL294				
33	751315	Freehold	Straits Mining	-
300, 301, 303	1161667	Freehold	Straits Mining	-
MPL294				
1	751320	Crown Land	The State of NSW	-
34, 35, 39	751320	Freehold	Private Individual	-
21	1230950	Freehold	Private Individual	-
7001	1020719	Crown Land	The State of NSW	-



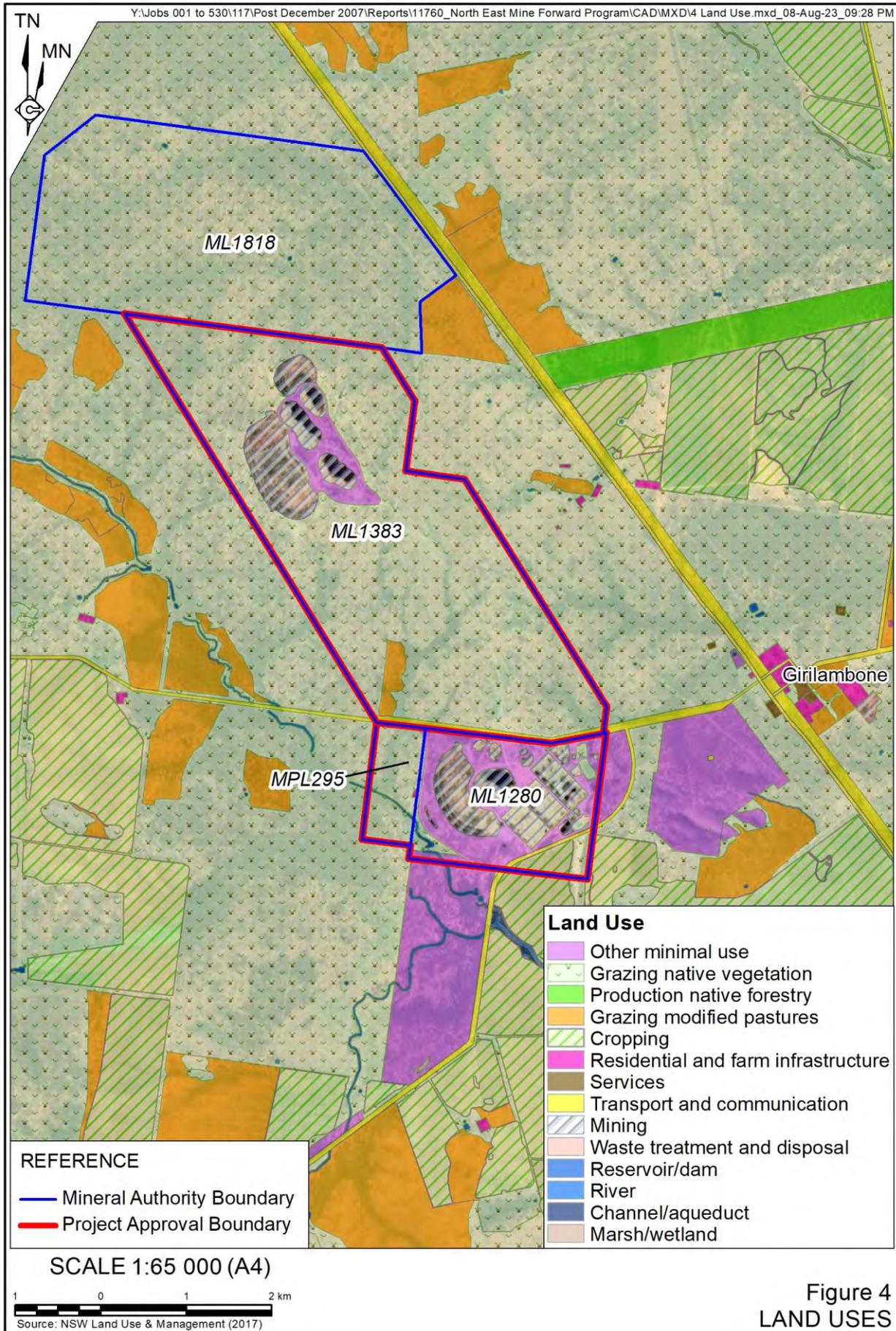


Figure 4
 LAND USES

1.3.1 Land Ownership and Land Use Figure

Figure 3 presents land ownership for areas within and surrounding the Mine Site. **Figure 4** presents land uses in the vicinity of the Mine Site. **Figure 5** presents vegetation communities within the Mine Site and the surrounding region. **Figure 6** presents land zoning in the vicinity of the Mine Site.

