

**Targeted flora survey for new populations of *Acacia sulcata* to support  
the application for a clearing permit for the Mount Mulgine Project**

**CPS 8141/1**

**for Mid-West Tungsten Pty Ltd**

**Tenements M59/386, M59/387, M59/425**

**December 2018**



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Cover: *Acacia sulcaticaulis* tall shrubland on either side of an old access track in Area 5

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## 1. Background

Mid-West Tungsten Pty Ltd (MWT) proposes to mine tungsten at Mt Mulgine in the Mid-West of Western Australia. The area has a significant number of conservation listed flora, with one species – *Acacia sulcaticaulis* (P1) – restricted to the Mt Mulgine area (Figure 1). A number of flora surveys have been undertaken in the area, with the most recent by Animal Plant Mineral (APM) during 2018. The proposed mining activity will impact 4,355 *Acacia sulcaticaulis* plants; this equates to 39 % of the previously mapped population (being 11,100 plants). A Native Vegetation Clearing Permit (NVCP) application was submitted by MWT (reference CPS 8141/1) to clear 201.8 ha of native vegetation on M59/425 and M59/387, with feedback received from the Department of Mines, Industry Regulation and Safety (DMIRS) advising of the following issues of significance:

- Several priority flora species were recorded within the application area. Apart from *Persoonia pentasticha* (P3), all of the species have restricted ranges of around 60 – 90 kilometres and are endemic to the Warriedar Fold Belt. For many of the species, the proposed clearing will remove a significant proportion of the individuals recorded and have an impact on a local and regional scale.
- As part of the assessment, advice was sought from the and Department of Biodiversity, Conservation and Attractions (DBCA) on the significance of the occurrence of priority flora in the area under application and the impact of proposed clearing on their current extents if the clearing occurred. DBCA advised that the proposed impact to the priority flora species, *Acacia sulcaticaulis* (P1), was of particular concern. *A. sulcaticaulis* has an extremely restricted range of less than 5 km and is endemic to the Warriedar Fold Belt.
- It is noted a large number of *A. sulcaticaulis* plants will remain adjacent to the application area, however, as this species is only known from this location; it represents a 39 % impact to the species. As a result of this proposed Project, *A. sulcaticaulis* could meet the category of Vulnerable under IUCN criterion A (population size reduction  $\geq 30\%$ ) if adequately surveyed.

Due to the restricted distribution of *Acacia sulcaticaulis*, the percentage impacted was required by DMIRS and DBCA to be less than 30 %, which equates to a minimum of 3,416 extra plants to be found to meet the requirements for the clearing permit.

MWT provided mapped results for *Acacia sulcaticaulis* from previous surveys (Figure 2). Aerial photo interpretation was undertaken prior to the site visit to define areas likely to support *Acacia sulcaticaulis* habitat. MWT need to report the information back to DMIRS and DBCA by the 14<sup>th</sup> December 2018. Due to time restrictions a field survey time of two days was planned to allow time for reporting to MWT prior to the 14<sup>th</sup> December.

The aims of this survey were to:

- Survey likely areas which may be suitable habitat for *Acacia sulcaticaulis* based on results from the APM and other surveys
- Quantify the number of plants outside proposed impact areas

## **2. Methodology**

### **2.1 Desktop Survey**

A desktop survey was undertaken prior to the survey to become familiar with *Acacia sulcatacaulis* and recorded habitat (NatureMap 2018; FloraBase 2018; Maslin 2008; Maslin & Buscomb 2008). *Acacia sulcatacaulis* is described as an umbrella-shaped, multi-stemmed shrub with stems bearing smooth bark with distinctive longitudinal flutings and longitudinal furrows between the flutes. It also occurs as a small tree to 6 metres high. Shrubs are more common in areas with shallower soils; for example at the summit of Mt Mulgine. The phyllodes are relatively broad and dull green; 5 – 10 cm long and 5 – 10 mm wide. The branchlets are flattened near the extremities. It is recorded as flowering in September and producing pods with mature mid-brown seeds in December.

The taxon has been recorded mostly on greisen (metamorphosed granite) and granite. Extensive areas of granitoid rocks occur to the south and east of the proposed impact area in which small occurrences have been previously recorded. Similar landforms occur adjacent to and near these sites which were targeted as the main areas to search during this survey.

### **2.2 Field survey**

A site known to have *Acacia sulcatacaulis* was visited to familiarise both parties with the species prior to the survey of new areas. Two areas were surveyed between mapped locations to see if it was present as the landform appeared to be very similar (Areas 1 & 2) (Figure 3). A number of smaller outlier populations had been mapped near the southern boundary of the granite area by APM. To determine whether these occurred on restricted habitat types within broader areas of granite, or whether they represented small areas that were searched of the broader extent, it was also decided to target the larger areas (Areas 3, 4, 5 and 6) (Figure 3).

#### **2.2.1 Actual Counts**

The locations of plants were recorded by GPS, with the number of plants in a defined area (based on visibility) being recorded for one GPS point. The vegetation was quite thick in area 1, so a smaller count area (20 m wide with 2 observers) was used. Broader areas were counted where the visibility was better. Transects were walked through parts of some areas following either an easting or northing and the number of plants recorded for a width of 30 m to get some data on densities.

#### **2.2.2 Estimation and extrapolation**

Time was a limiting factor, and with the discovery of significant populations in the southern area which appeared to have a discreet boundary, it was decided to capture the population boundary polygon for Area 5 (Figure 7). A transect was walked through part of the area, and the resulting stem counts were used to estimate the population within the polygon. Parts of the boundary were captured for the other areas except Area 1, which is part of an extensive population on rugged terrain; and Area 2 (Figure 4) where further survey would be required to delineate the boundary. Boundary polygons were extrapolated for areas 3A, 4 and 6 from field results and aerial interpretation (Figures 5, 6 & 8). Area 3 included a number of isolated occurrences which were not included in the polygon. Regional counts refer to the total number of counts within an area.









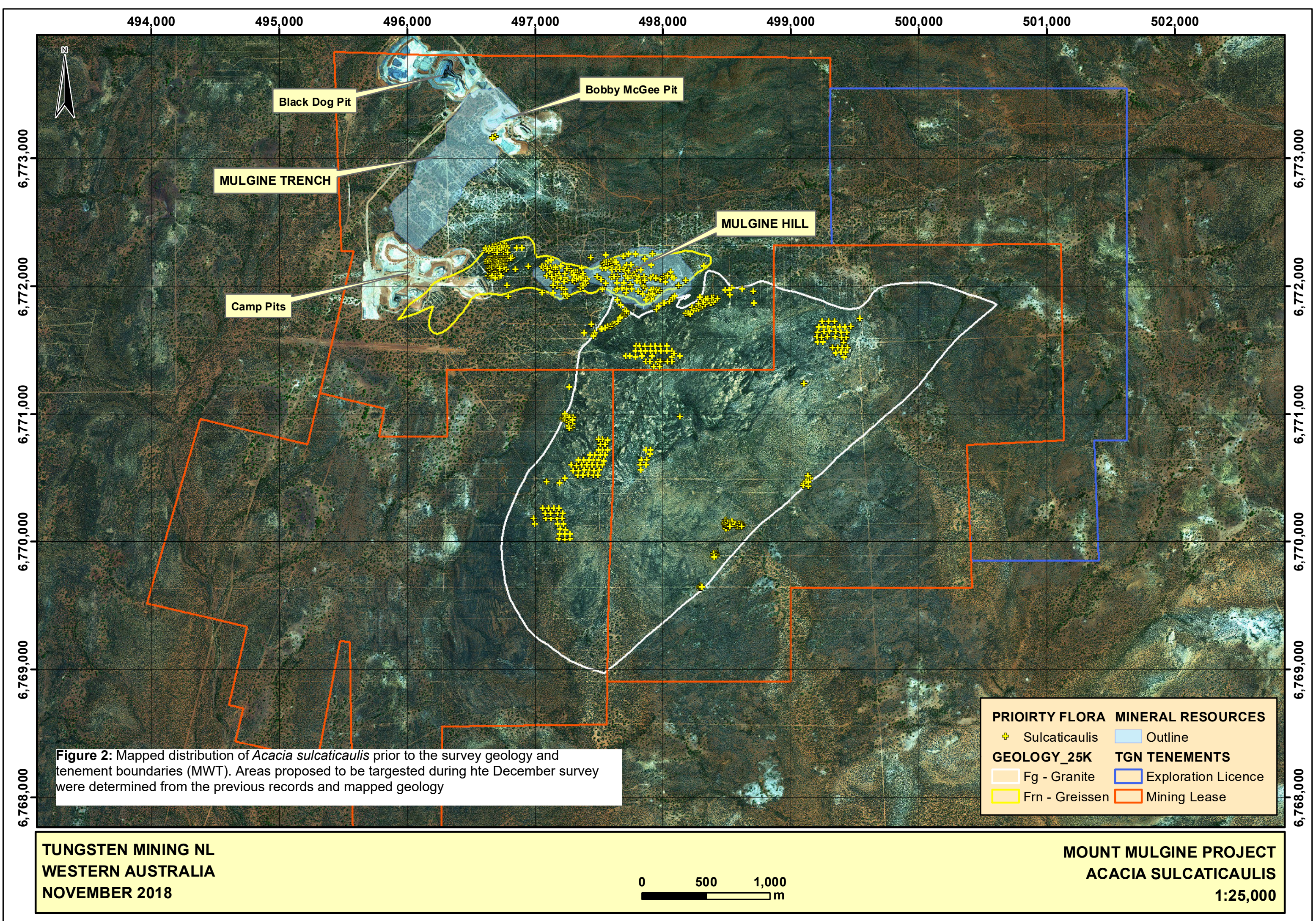
	
<p>Area 2: <i>Acacia sulcataulis</i> low open woodland on sandy soils on decaying granite</p>	<p><i>A. sulcataulis</i> has a distinctive smooth barked fluted stem.</p>
	
<p>Pods were present on 30 – 40 % of shrubs and trees.</p>	<p>Close-up of terete pods with mature seeds which are mid-brown in colour.</p>
	
<p>Area 6: <i>A. sulcataulis</i> low trees (background) with shrubs occurring on yellow sand in the foreground in <i>Acacia</i> and <i>Allocasuarina</i> open shrubland. Granite was close to the surface.</p>	<p>Area 4: Areas of low shrubs occurred at the edges of granite outcrop.</p>

Figure 1: Images of *Acacia sulcataulis* habit and habitat taken during the survey 4<sup>th</sup> – 6<sup>th</sup> December



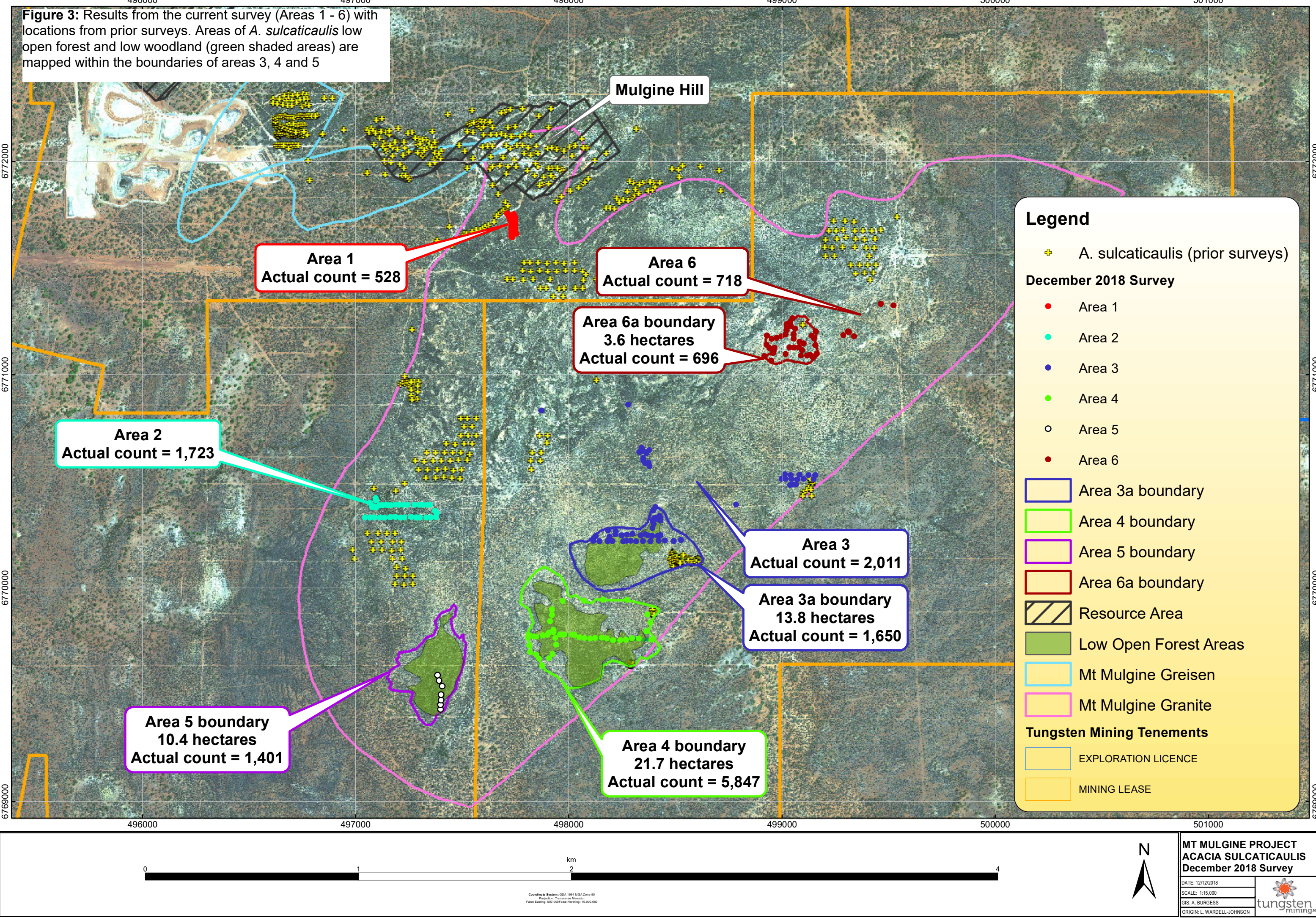


**Figure 2:** Mapped distribution of *Acacia sulcataulis* prior to the survey geology and tenement boundaries (MWT). Areas proposed to be targested during hte December survey were determined from the previous records and mapped geology

PRIORITY FLORA		MINERAL RESOURCES	
+	Sulcataulis		Outline
GEOLOGY_25K		TGN TENEMENTS	
	Fg - Granite		Exploration Licence
	Frn - Greissen		Mining Lease



**Figure 3:** Results from the current survey (Areas 1 - 6) with locations from prior surveys. Areas of *A. sulcatacaulis* low open forest and low woodland (green shaded areas) are mapped within the boundaries of areas 3, 4 and 5





# Area 2 Transect

Plant Density = 1,281 stems/hectare

**Figure 4:** Area 2 was located between two previously recorded locations (identified as yellow marks) to determine whether the population was potentially continuous along the ridge. *Acacia sulcatacaulus* was abundant in the area. A transect was walked from east to west (highlighted) from which 856 plants were recorded in an area of 0.67ha

Area 2 Region Counts  
Total = 1,723

Area 2 Transect Counts  
Total = 856

Area 2 Transect Line  
334 metres

Area 2 transect boundary (20m)  
0.67 hectare

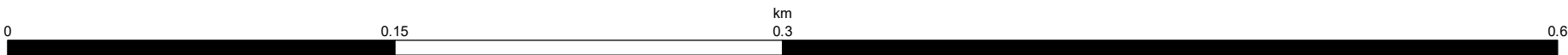
### Legend

- + A. sulcatacaulis (prior surveys)
- Area 2 locations (along transect)
- Area 2 locations (regional)

- 20 m buffer
- Low Open Forest Areas
- Mt Mulgine Granite

### Tungsten Mining Tenements

- EXPLORATION LICENCE
- MINING LEASE



Coordinate System: GDA 1984 MGA Zone 50  
Projection: Transverse Mercator  
False Easting: 500,000 False Northing: 10,000,000



MT MULGINE PROJECT  
ACACIA SULCATACAULIS  
AREA 2

DATE: 12/12/2018  
SCALE: 1:2,500  
GIS: A. BURGESS  
ORIGIN: JENNY BORGER





**Figure 5:** *Acacia sulcatacaulis* recorded in Area 3A with polygon capturing the likely extent of the population based on aerial imagery, geology and field observations. 92 plants were recorded in the south east area prior to the survey. A transect was walked from the eastern extent to the western extent with the number of plants recorded over a 30m width. The number of plants and area of the transect (density) have been used to determine an estimate of the broader population.

**Area 3a Transect**  
**Plant Density = 700 stems/hectare**

**Area 3a Polygon**  
**13.8 hectares**  
**Estimated Plant Population = 9,660**

**Area 3a Region Counts**  
**Total = 1,650**

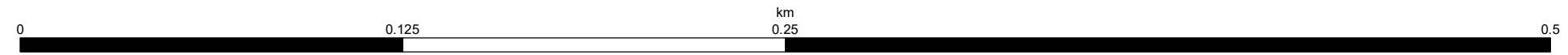
**Area 3a Transect Line**  
**412 metres**

**Area 3a Transect Counts**  
**Total = 840**

**Area 3a transect boundary (30m)**  
**1.2 hectares**

**Legend**

- + A. sulcatacaulis (prior surveys)
- Area 3a locations (along transect)
- Area 3a locations (regional)
- 30 m buffer
- Area 3a boundary
- Low Open Forest Areas
- Mt Mulgine Granite
- Tungsten Mining Tenements**
  - EXPLORATION LICENCE
  - MINING LEASE



**MT MULGINE PROJECT**  
**ACACIA SULCATICAULIS**  
**AREA 3a**

DATE: 11/12/2018	
SCALE: 12,000	
GIS: A. BURGESS	
ORIGIN: JENNY BORGER	



**Figure 6:** Area 4 survey results. A transect was walked from the eastern extent to the western extent of the population with a recorded count of 3,931 stems/1.76 ha (2,233 stems/ha; or 2.23stems per 10sq.m). Some areas had densities of >5 stems per sq.m which were mainly young shrubs under a metre tall.

**Area 4 Transect**  
**Plant Density = 2,233 stems/hectare**

**Area 4 Polygon**  
**21.74 hectares**  
**Estimated Plant Population = 48,545**

**Area 4 Region Counts**  
**Total = 5,847**

**Area 4 Transect Line**  
**589 metres**

**Area 4 Transect Counts**  
**Total = 3,931**

**Area 4 transect boundary (30m)**  
**1.76 hectares**

**Legend**

- A. sulcicaulis (prior surveys)
- Area 4 locations (along transect)
- Area 4 locations (regional)
- 30 m buffer
- Area 4 boundary
- Low Open Forest Areas
- Mt Mulgine Granite

**Tungsten Mining Tenements**

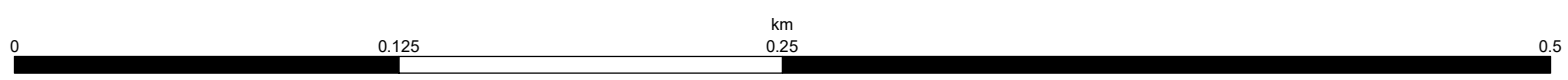
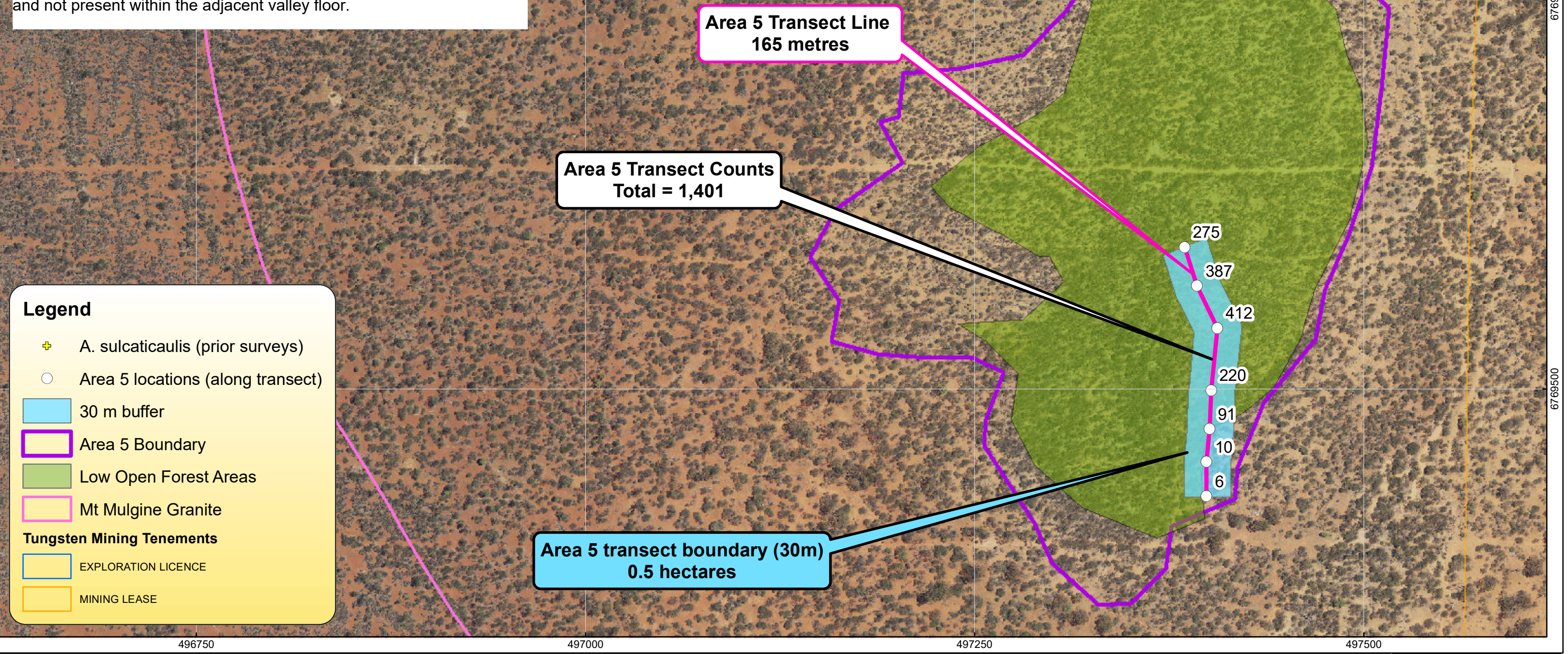
- EXPLORATION LICENCE
- MINING LEASE



**Area 5 Transect**  
**Plant Density = 2,802 stems/hectare**

**Area 5 Polygon**  
**10.4 hectares**  
**Estimated Plant Population = 29,140**

**Figure 7:** *Acacia sulcatacaulis* recorded in Area 5. A transect of 165m long was surveyed on the southern side. A plant density of 2,802 stems/ha was recorded. The site was visited in the afternoon and it was decided to capture the population boundary with the remaining time available. *Acacia sulcatacaulis* were present on granitic substrate and not present within the adjacent valley floor.



Coordinate System: GDA 1984 MGA Zone 50  
Projection: Transverse Mercator  
False Easting: 500,000 False Northing: 10,000,000



**MT MULGINE PROJECT**  
**ACACIA SULCATACAULIS**  
**AREA 5**

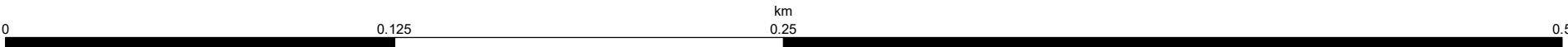
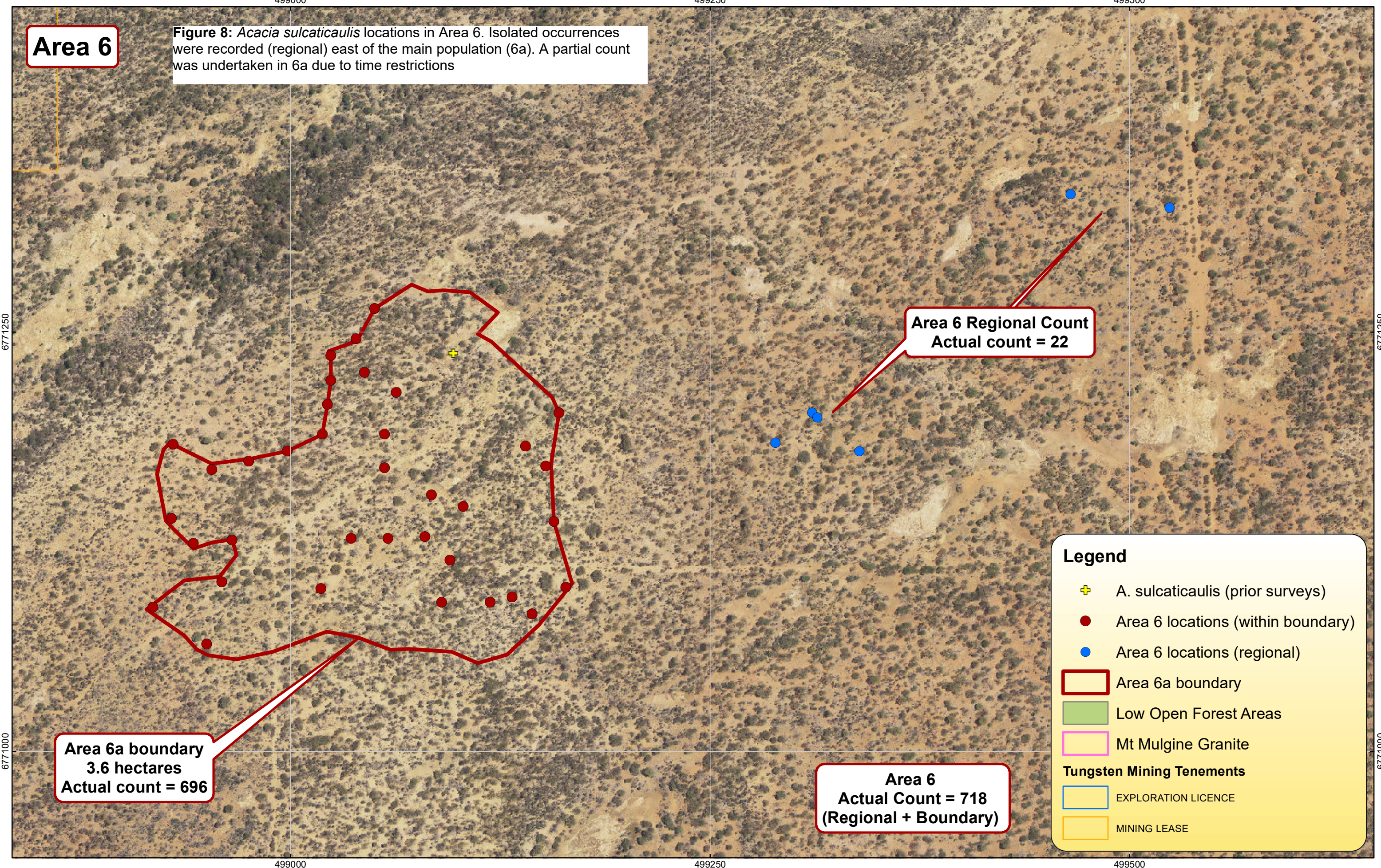
DATE: 11/12/2018  
SCALE: 1:2,455  
GIS: A. BURGESS  
ORIGIN: JENNY BORGER

**tungsten**  
mining



Area 6

Figure 8: *Acacia sulcatacaulis* locations in Area 6. Isolated occurrences were recorded (regional) east of the main population (6a). A partial count was undertaken in 6a due to time restrictions



Coordinate System: GDA 1984 MGA Zone 50  
Projection: Transverse Mercator  
False Easting: 500,000 False Northing: 10,000,000



**MT MULGINE PROJECT  
ACACIA SULCATICAULIS  
AREA 6**

DATE: 12/12/2018	
SCALE: 12,000	
GIS: A. BURGESS	
ORIGIN: JENNY BORGER	



### 3. Results

Table 1 provides a summary of the results for the December 2018 site assessment. The total count (actual) for the assessment was 12,228 plants, increasing the total population to 23,328. Areas 3 and 6 included some counts outside the mapped polygons (Figures 3, 5 & 8). The total count for Area 3 was 2011, of which 1650 were inside the large occurrence (3a). Area 6 had isolated pockets of plants east of the larger population (polygon 6a). 22 plants were recorded outside the polygon. Each area will be discussed separately.

Table 1: Results from the December *Acacia sulcatacaulis* targeted survey. Counts from previous surveys have not been added on to the actual counts.

Area	1	2	3/ 3a	4	5	6/ 6a
Actual count	528	1723	2011/1650	5847	1401	718/696
Polygon area (ha)			*13.8	*21.7	10.4	*3.6
Stems/ ha		1281	700	2,233	2746	N/A
Stems/ m <sup>2</sup>		0.13	0.07	2.23	2.74	
Extrapolated count	Abundant	Abundant	9660	48,545	29,140	> 1000

\* includes area/s recorded from other surveys

The density of stems was lower in the low open forest and low woodland areas due to the size of plants and cover of the upper storey. Densities were higher in the shrubland areas; however the extrapolated counts have been based on the lower densities to reduce overestimation of counts.

Table 2: Area 1 data

<b>Area 1</b>	Date: 4/12/2018
<b>Access</b>	The site was accessed from existing tracks to drill sites
<b>Landform</b>	Upper slope; granite
<b>Condition</b>	Very good; moderate to high level of disturbance in area; patches of remnant vegetation between access tracks and drill locations
<b>Vegetation</b>	<i>Acacia sulcatacaulis</i> shrubland to tall shrubland; other species mainly <i>Acacia assimilis</i> subsp. <i>assimilis</i> , <i>Allocasuarina acutivalvis</i> , <i>Gastrolobium laytonii</i>
<b>No. plants</b>	528; part survey; abundant and dominant in the broader area

Table 3: Area 2 data

<b>Area 2</b>	Date: 4/12/2018
<b>Access</b>	The site was accessed from an existing, partly overgrown, track along a boundary fence north of the area
<b>Landform</b>	Granitic ridge; lower slopes of Mount Mulgine; western ridge
<b>Condition</b>	Excellent; some historic disturbances in area which have become overgrown
<b>Vegetation</b>	<i>Acacia sulcatacaulis</i> low woodland with areas of low open forest over <i>A. sulcatacaulis</i> and <i>A. karina</i> open shrubland
<b>No. plants</b>	1723; part survey; abundant and dominant in the broader area
<b>Transect</b>	A transect (20 m wide) was surveyed from east to west between the edges of the occurrence. (Figure 4) A plant density of 1281 stems/ ha was recorded.

Table 4: Area 3 data

<b>Area 3</b>	Date: 5/12/2018
<b>Access</b>	The site was accessed from an existing pastoral track on the eastern side; then along a partly overgrown pastoral track following a fenceline. Vehicle access stopped at the small population recorded by APM. The fenceline was followed until a low ridge was reached, from where it was followed up to the lower slopes of Mt Mulgine (Easting 498000). Areas south of this point were accessed by following a low ridge and drainage line.
<b>Landform</b>	Isolated occurrences on lower midslopes of Mt Mulgine; Small population on lower slope of Mt Mulgine; large occurrence on low granite rise south of Mt Mulgine (Figure 5)
<b>Condition</b>	Excellent; some historic disturbances – old drill lines; overgrown pastoral access track along fenceline
<b>Vegetation</b>	Isolated plants on the slopes of Mt Mulgine in <i>Acacia</i> tall open shrubland with occasional <i>Brachychiton gregorii</i> ; larger area south of the track was predominantly <i>Acacia sulcatacaulis</i> low woodland or low open forest.
<b>No. plants</b>	2011; part survey; total population estimated to be 9660 within the polygon based on plant density and perimeter boundary
<b>Area</b>	13.8 ha (polygon 3a; Figure 5)

Table 5: Area 4 data

<b>Area 4</b>	Date: 5/12/2018
<b>Access</b>	The area was accessed from the eastern track, then along an existing drill track. APM had recorded small areas at the end of this track and a parallel track to the south. It is highly likely that these areas are connected. During the latest survey we walked south and found that the density of plants was increasing and an east-west transect was walked through (Figure 6).
<b>Landform</b>	Low granite rise south of Mt Mulgine
<b>Condition</b>	Excellent; most vegetation intact; recruitment occurring; range of ages
<b>Vegetation</b>	Extensive area of <i>Acacia sulcatacaulis</i> low open forest with patches of more open shrubland
<b>No. plants</b>	Actual count 5847; part survey; total population estimated to exceed 48,545 based on plant density and recorded perimeter boundary. It is possible that the population extends outside the estimated boundary.
<b>Area</b>	21.7 ha

Table 6: Area 5 data

<b>Area 5</b>	Date: 5/12/2018
<b>Access</b>	This area was accessed from an old pastoral track approximately 800 m south of the granitic area identified from the aerial imagery. This access route was chosen as the vegetation was mainly low woodland dominated by <i>Eucalyptus ewartiana</i> with small areas of <i>E. loxophleba</i> subsp. <i>supralaevis</i> woodland, and tall open <i>Acacia acuminata</i> and <i>A. ramulosa</i> shrubland and easy to walk through.
<b>Landform</b>	Low granite rise south of Mt Mulgine
<b>Condition</b>	Excellent; low level of historic disturbance; old drill access track cuts through the middle of the area
<b>Vegetation</b>	Extensive area of <i>Acacia sulcatacaulis</i> low open forest with more open woodland/ tall shrubland to open shrubland on the perimeters
<b>No. plants</b>	1401; population perimeter captured; counts were done in a 170m x 30m transect area at south end within open forest area – 1401/ 0.51 ha. Due to time available and the extensive population; population estimated to exceed 28,500 based on plant density and recorded perimeter boundary (Figure 7)
<b>Area</b>	10.4 ha

Table 7: Area 6 data

<b>Area 6</b>	Date: 6/12/2018
<b>Access</b>	Access to the site was from walking from the eastern pastoral track, from 150m south of the windmill. The area of interest was 400 west of the track.
<b>Landform</b>	Low granite rise east of Mt Mulgine; decomposed granite; granite outcrop and areas of yellow sand at the margins
<b>Condition</b>	Excellent; historic disturbances in area – an overgrown track which follows the base of Mt Mulgine
<b>Vegetation</b>	Mostly shrublands with restricted areas of <i>Acacia sulcatacaulis</i> low woodland; isolated occurrences were recorded in the area between the track and the main population
<b>No. plants</b>	718; part count – mostly recorded around the perimeter; the population extended further south; time was a limiting factor (Figure 8)
<b>Area</b>	3.6 ha



Figure 9: North side of Area 4. An area of shallow sandy soil with granite near the surface (foreground) supported isolated *Acacia sulcatacaulis* shrubs (yellow arrow). The taller vegetation which can be seen to the south (marked by red line) is the northern extent of the main area of *A. sulcatacaulis* low open forest. The vegetation in the foreground was *Melaleuca hamata* isolated low trees over *Calycopeplus paucifolius*, *Acacia assimilis* subsp. *assimilis*, *A. karina*, *A. sulcatacaulis* and *Aluta aspera* subsp. *hesperia* open shrubland over *Borya sphaerocephala* low open forbland

#### 4. Discussion

*Acacia sulcatacaulis* was very common in granitic areas with broken rock/ decomposed granite, rather than sheet granite. Occurrences did occur at the edges of exposed sheet granite areas or within pockets of deeper soil, but most were less than 2 metres high. Where the land surface had broken rock with deeper soils there were significant areas of low woodland (10 – 30 % cover) or low open forest (30 – 70 % cover) with an understorey also dominated by *Acacia sulcatacaulis*. It is likely the size of the population within the mining tenement areas is well in excess of 90,000 plants. Most areas were very healthy, with very isolated recent deaths – mainly small shrubs. Recruitment was occurring at all sites, and there was good pod set in many locations. Juvenile *Acacia sulcatacaulis* were observed along some of the current drill access tracks along the upper slopes and ridges of the current disturbance area which may indicate that the species recruits well after disturbance. *Acacia sulcatacaulis* tended to occur as isolated plants or small groups of plants in the lower lying areas. It was not seen in any doleritic or basaltic areas.

Based on actual counts only (12,228 December survey; 11,100 previous surveys) the total recorded numbers of *Acacia sulcatacaulis* are 23,328. **The proposed impact to 4355 plants will represent 18.74 % of the actual count.** Given the estimated number of plants calculated from plant density of populations in areas 3 – 6, the total population is estimated to exceed 90,600 plants and **the estimated impact would be less than 5 %.** There are also areas on the summit and upper slopes of Mt Mulgine which have not been surveyed which support *Acacia sulcatacaulis* and are outside the proposed impact area. The initial expected outcome of the proposed impact ( $\geq 30$  % of the known population) will not occur due to the increase in actual count of the species, and not likely to meet the criterion of Vulnerable under IUCN criterion A.

#### Recommendations

- The boundaries of the main sub-populations of *Acacia sulcatacaulis* should be captured, including more areas on the upper slopes and summit of Mt Mulgine, as there are likely to be areas in which it occurs which have still not been recorded. The number of plants within Area 2 (including the previously surveyed areas) is likely to be significant.
- Seed should be collected from *Acacia sulcatacaulis* for future rehabilitation programs as it appears to recruit very successfully. Mature seed was present during the survey period (early December) and the plants are likely to hold on to some of that seed for a few weeks, having a potential collecting period from late November to mid-December (dependent on climatic conditions).

## 5. References

Department of Biodiversity, Conservation and Attractions 2018. *NatureMap*, accessed December 2018; [naturemap.dbca.wa.gov.au](http://naturemap.dbca.wa.gov.au)

Maslin B R 2008 New Acacia species from Gindalbie Metals Pty Ltd iron ore leases on Karara Station and nearby areas, Western Australia. Western Australian Herbarium, Science Division, Department of Environment and Conservation.

Maslin B R and Buscumb C 2008 A review of *Acacia coolgardiensis* (Leguminosae: Mimosoideae) and closely related species in Western Australia. *Nuytsia* 18: 107 – 125, Western Australian Herbarium, Department of Environment and Conservation Western Australia

Western Australian Herbarium 2018 *FloraBase – the Western Australian Flora*, accessed December 2018, <http://florabase.dbca.wa.gov.au>

## Appendix 1: GPS locations of *Acacia sulcata* in Area 1

Scientific Name	Date	Zone	Easting	Northing	No.	Area	
<i>Acacia sulcata</i>	4/12/2018	50J	497715	6771754	3	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497712	6771755	15	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497715	6771749	18	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497718	6771743	23	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497720	6771738	10	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497724	6771736	7	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497724	6771731	8	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497724	6771727	12	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497727	6771722	6	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497729	6771716	8	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497733	6771707	11	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497733	6771703	13	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497735	6771698	15	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497732	6771692	14	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497732	6771687	14	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497731	6771681	17	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497732	6771676	16	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497733	6771670	14	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497732	6771665	2	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497732	6771656	5	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497732	6771647	7	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497736	6771642	1	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497756	6771661	12	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497749	6771665	5	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497748	6771675	31	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497749	6771682	42	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497749	6771689	24	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497749	6771691	12	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497748	6771699	24	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497749	6771706	24	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497749	6771713	17	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497748	6771719	8	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497749	6771725	10	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497748	6771735	24	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497748	6771736	24	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497744	6771748	16	Area 1	
<i>Acacia sulcata</i>	4/12/2018	50J	497743	6771752	16	Area 1	Total 528



## Appendix 2: GPS locations of *Acacia sulcata* in Area 2

Scientific Name	Date	Zone	Easting	Northing	No.	Area	
<i>Acacia sulcata</i>	4/12/2018	50J	497095	6770420	55	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497096	6770410	13	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497068	6770398	38	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497079	6770379	59	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497098	6770377	36	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497112	6770387	45	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497127	6770387	51	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497143	6770389	36	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497155	6770387	33	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497167	6770388	78	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497188	6770390	70	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497205	6770389	57	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497225	6770389	51	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497245	6770389	59	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497277	6770389	60	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497300	6770389	35	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497315	6770389	37	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497337	6770389	17	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497351	6770389	1	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497373	6770361	30	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497382	6770351	6	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497378	6770332	1	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497355	6770331	6	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497333	6770331	33	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497302	6770331	45	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497285	6770331	73	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497262	6770333	60	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497230	6770330	93	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497208	6770329	94	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497187	6770333	70	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497163	6770332	82	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497137	6770329	66	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497116	6770330	48	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497090	6770331	58	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497067	6770331	51	Area 2	
<i>Acacia sulcata</i>	4/12/2018	50J	497045	6770331	76	Area 2	Total 1723



### Appendix 3: GPS locations of *Acacia sulcaticaulis* in Area 3

Scientific Name	Date	Zone	Easting	Northing	No.	Area	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	499067	6770484	19	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	499054	6770484	27	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	499039	6770481	24	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	497873	6770831	1	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498279	6770859	3	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498378	6770645	11	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498366	6770632	20	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498351	6770643	24	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498343	6770655	3	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498333	6770636	12	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498351	6770608	17	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498350	6770597	10	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498359	6770584	7	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498375	6770587	10	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498379	6770570	11	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498407	6770379	2	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498396	6770363	7	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498427	6770338	35	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498431	6770327	5	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498431	6770317	4	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498419	6770321	15	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498406	6770329	10	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498399	6770322	7	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498395	6770314	9	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498399	6770299	16	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498394	6770280	11	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498431	6770248	20	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498418	6770244	42	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498391	6770244	84	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498371	6770246	63	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498359	6770251	81	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498338	6770246	67	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498299	6770253	65	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498274	6770249	63	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498249	6770247	44	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498220	6770251	62	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498221	6770265	15	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498185	6770269	18	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498191	6770240	55	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498127	6770243	10	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498116	6770221	3	Area 3	
<i>Acacia sulcaticaulis</i>	5/12/2018	50J	498144	6770219	27	Area 3	

<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498183	6770218	44	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498205	6770220	31	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498256	6770219	48	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498272	6770221	90	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498292	6770221	85	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498318	6770219	81	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498349	6770220	108	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498384	6770219	180	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498423	6770221	106	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498451	6770222	27	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498493	6770220	7	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498527	6770225	3	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498786	6770390	4	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	498999	6770511	1	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499018	6770511	8	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499047	6770510	26	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499072	6770508	39	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499103	6770511	26	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499149	6770510	25	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499157	6770528	1	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499125	6770529	12	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499084	6770530	3	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499042	6770528	16	Area 3	
<i>Acacia sulcatacaulis</i>	5/12/2018	50J	499015	6770532	1	Area 3	Total 2011

#### Appendix 4: GPS locations of *Acacia sulcata* in Area 4

Scientific Name	Date	Zone	Easting	Northing	No.	Area	
<i>Acacia sulcata</i>	5/12/2018	50J	498369	6769875	4	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498383	6769837	2	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498365	6769797	24	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498389	6769758	33	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498329	6769762	188	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498297	6769764	213	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498269	6769758	138	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498242	6769755	206	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498208	6769755	182	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498180	6769763	179	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498156	6769766	269	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498124	6769765	205	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498102	6769763	114	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498075	6769765	380	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498050	6769767	260	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498029	6769779	233	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498015	6769782	151	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497980	6769782	307	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497960	6769782	142	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497929	6769803	247	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497908	6769791	182	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497901	6769780	87	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497879	6769778	138	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497849	6769771	100	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497837	6769773	30	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497815	6769778	15	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497809	6769766	3	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497816	6769731	4	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497819	6769699	1	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497849	6769687	30	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497861	6769669	52	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497875	6769635	41	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497908	6769670	100	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497925	6769690	340	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497941	6769735	135	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497937	6769765	157	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497929	6769792	179	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497914	6769844	71	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497922	6769873	210	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497921	6769899	180	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	497973	6769939	250	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498074	6769940	2	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498161	6769946	56	Area 4	
<i>Acacia sulcata</i>	5/12/2018	50J	498274	6769944	7	Area 4	Total 5847

## Appendix 5: GPS locations of *Acacia sulcata* in Area 5

Scientific Name	Date	Zone	Easting	Northing	No.	Area	
<i>Acacia sulcata</i>	5/12/2018	50J	497399	6769431	6	Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497399	6769453	10	Area 5	
<i>Acacia sulcata</i>	5/12/2018	50J	497401	6769474	91	Area 5	
<i>Acacia sulcata</i>	5/12/2018	50J	497402	6769499	220	Area 5	
<i>Acacia sulcata</i>	5/12/2018	50J	497406	6769539	412	Area 5	
<i>Acacia sulcata</i>	5/12/2018	50J	497393	6769566	387	Area 5	
<i>Acacia sulcata</i>	5/12/2018	50J	497385	6769591	275	Area 5	
<i>Acacia sulcata</i>	5/12/2018	50J	497505	6769643		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497511	6769693		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497516	6769745		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497448	6769854		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497466	6769876		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497471	6769910		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497459	6769928		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497439	6769899		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497404	6769887		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497391	6769873		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497371	6769847		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497379	6769817		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497362	6769782		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497329	6769772		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497309	6769744		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497281	6769715		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497254	6769688		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497241	6769706		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497204	6769703		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497213	6769690		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497201	6769675		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497189	6769672		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497203	6769646		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497160	6769616		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497144	6769585		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497163	6769557		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497158	6769531		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497187	6769523		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497220	6769520		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497249	6769520		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497268	6769511		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497257	6769481		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497256	6769464		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497296	6769434		Area 5	boundary
<i>Acacia sulcata</i>	5/12/2018	50J	497288	6769414		Area 5	boundary

## Appendix 6: GPS locations of *Acacia sulcata* in Area 6

Scientific Name	Date	Zone	Easting	Northing	No.	Area	
<i>Acacia sulcata</i>	6/12/2018	50J	499524	6771324	2	Area 6	
<i>Acacia sulcata</i>	6/12/2018	50J	499465	6771332	7	Area 6	
<i>Acacia sulcata</i>	6/12/2018	50J	499339	6771179	1	Area 6	
<i>Acacia sulcata</i>	6/12/2018	50J	499311	6771202	7	Area 6	
<i>Acacia sulcata</i>	6/12/2018	50J	499289	6771184	4	Area 6	
<i>Acacia sulcata</i>	6/12/2018	50J	499157	6771137	23	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499152	6771170	12	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499160	6771202	1	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499140	6771182	4	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499103	6771146	4	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499084	6771153	3	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499056	6771169	12	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499056	6771189	38	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499063	6771214	28	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499044	6771226	25	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499039	6771246	36	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499050	6771264	21	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499024	6771236	18	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499024	6771221	48	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499022	6771207	26	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499019	6771189	28	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498998	6771179	35	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498975	6771173	65	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498953	6771168	30	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498930	6771183	9	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498929	6771139	7	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498942	6771124	14	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498965	6771126	45	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498959	6771101	29	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498918	6771086	26	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	498950	6771064	10	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499018	6771097	3	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499036	6771127	7	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499058	6771127	11	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499080	6771128	2	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499095	6771114	9	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499090	6771089	12	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499119	6771089	20	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499132	6771092	18	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499144	6771082	16	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499164	6771098	1	Area 6	Polygon
<i>Acacia sulcata</i>	6/12/2018	50J	499314	6771199	1	Area 6	
Total					718		