Modified Tree Removal Plan

Major Project No. MP05-0198 (as modified)
Approval Condition A2

Lot 1 DP 134787, Lot 1 DP 167380, Lot 2 DP 961928,
& Lot 5 DP 1117326

Walmsley's Road and Stott Street, Bilambil Heights

Final Report
June 2020

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1.0 Introduction

This Tree Removal Plan (TRP) has been prepared for Darryl Anderson Consulting Pty. Ltd. on behalf of the proponents for the purposes of complying with the Major Project Approval MP05_0198 approval condition A2 (as modified - Modification 1, approved on 16 May 2014 and Modification 5, approved on 14 June 2019) for the subdivision at Lot 1 DP 134787, Lot 1 DP 167380, Lot 2 DP 961928, & Lot 5 DP 1117326 Walmsley's Road, Bilambil Heights.

Approval Condition - A2 Staging:
The project is to be constructed in seven (7) stages, generally in accordance with Revision of Plan 35054 dated 24.03.16 prepared by Landsurv Pty Ltd, incorporating the lots as follows:

(1A) Stage 1A Preliminary Works Stage comprising:

(a) Removal of the existing trees within and adjacent to the alignment of approved Roads 3 and 5. Prior to removing any trees within or adjacent to approved Roads 3 and 5 the proponent shall:

> *(i) submit a Tree Removal Plan for the approval of the Secretary identifying all trees proposed to be removed within Stage 1A; and*
>
> *(ii) provide a copy of the approved Tree Removal Plan to the PCA prior to the issue of a Construction Certificate authorising any tree removal works.*

(b) Surveying of all proposed road alignments including placing pegs, observing levels, preparing spatial data drilling geotechnical bore holes on road alignments. Survey work and investigative geotechnical work that does not require tree removal.

(c) The following conditions of approval shall be complied with prior to commencing the preliminary works stage referred to in Condition A2(1A)(a): conditions C1 to C4, Condition C10, and conditions C12 to C14.

(d) The following conditions of approval shall be complied with prior to commencing the preliminary works stage referred to in Condition A2(1A)(b): conditions C3 and C4.

(5) Stage 5 comprises lots 41-61 inclusive incorporating roads and sewer pumping station. Prior to removing any trees associated with the construction of the sewer line at the rear of approved lots 55, 57, 59 and 60 the proponent shall:

> *(iii) submit a Tree Removal Plan for the approval of the Secretary identifying all trees proposed for removal and demonstrating the design and construction techniques proposed to minimise tree removal within the Environmental Management Area: and*
>
> *(iv) provide a copy of the approved Tree Removal Plan to the PCA prior to the issue of a Construction Certificate authorising any tree removal works.*

(6) Stage 6 comprises lots 63-79 62-78 inclusive incorporating roads. Prior to removing any trees associated with the construction of the sewer line at the rear of approved lots 69, 70 and 77 the proponent shall:

> *(v) submit a Tree Removal Plan for the approval of the Secretary identifying all trees proposed for removal and demonstrating the design and construction techniques proposed to minimise tree removal within the Environmental Management Area; and*
>
> *(vi) provide a copy of the approved Tree Removal Plan to the PCA prior to the issue of a Construction Certificate authorising any tree removal works.*

This Tree Removal Plan satisfies condition A2 and includes:

- An overview of tree removal associated with the development (Figure 1);
- A general tree removal plan and a tree removal schedule of trees identifying locations of trees to be removed for the construction of Roads 3 and 5 (Figure 2);

- Tree removal plans (Sections 1, 2, 3, 4) identifying locations of trees to be removed in each section for the construction of Roads 3 and 5 (Figures 3a, 3b, 3c, 3d);
- A general tree removal plan and tree removal schedule of trees requiring removal for the establishment of the APZ (Figures 4 and 5); and
- A general tree removal plan and tree removal schedule of trees requiring removal for the sewer line and trees adjacent to the sewer line within the APZ for Stages 5 and 6 (Figure 5).

Between trees 1-6 (Figures 1 and 3d), small regenerating plants of the threatened species, *Lepiderema pulchella* (Fine-leaved Tuckeroo) were located. These plants will be subject to translocation – transplant salvage (Sections 3 and 4).

A specimen of the threatened species, *Amorphospermum whitei* (Rusty Plum), now known as *Niemeyera whitei*, was recorded in the original flora study (Biolink 2011). Despite several recent searches, this individual has not been located and is assumed to no longer exist. This is discussed further in Sections 3 and 4.

2.0 Methodology

For each plant over 2 m in height within the specified area of Roads 3 and 5, the APZ, and the sewer line, a tree number was allocated, and the following information was recorded:

- the species scientific name and common name,
- the location - latitude and longitude or eastings and northings, and
- any relevant notes such as whether the tree was dead, had obvious hollows, or wildlife present.

The locations were determined using a handheld GARMIN GPS unit. The location of each tree was then plotted over a digital air photo image with the location of Roads 3 and 5 superimposed.

The data recorded for each tree is provided in the Tree Removal Schedule in Appendix 1.

3.0 Discussion

The required vegetation removal for the development comprises 3 components:

1) *Tree clearing of the Planted Windbreak for construction of Roads 3 and 5*. This component of the tree clearing is associated with Stage 1 of the development approval. The vegetation consists of a planted windbreak with regenerating native and exotic species. The majority of the large trees to be removed are planted Turpentine (*Syncarpia glomulifera*) and Camphor Laurel (*Cinnamomum camphora*).

   There are a small number of remnant rainforest trees toward the western end of the strip of vegetation, and regenerating exotics and native rainforest species occur within the planted windbreak (see Photos 1 and 2). Regenerating rainforest occurs towards the western end of the study area.

   Ten plants of *Lepiderema pulchella* will be translocated, as a transplant salvage, from the eastern end of the windbreak corridor. These plants are mostly small seedlings <40cm, with two plants just over 1 m tall. There is a possibility of more *Lepiderema pulchella* plants germinating prior to the tree removal works. Details of the translocation are provided in Section 4.

Photos 1 and 2: Vegetation to be removed for approved Road 3

2) *Tree clearing associated with the establishment of the Asset Protection Zone*. The management of this area is discussed in the Additional Information – Bushfire report for the site (BCA Check 2020). This clearing includes an extension to the clearing of the windbreak trees, which contains 36 Camphor Laurel trees and 15 native trees (Figure 4 and Appendix 1). The native trees in this area will be removed, as their retention would be extremely difficult given that the surrounding Camphor Laurels must be removed. Maintaining these individuals would also conflict with achieving the required standards for asset protection zones.

   Two trees within the APZ have been identified for retention (Figure 1). These are a *Mallotus philippensis* (Red Kamala) and a *Flindersia australis* (Teak). Location and plant details are provided at the end of Appendix 1.

   The *Niemeyera whitei* plant which has not been located is marked as a virtual plant on Figure 1. An individual of this species will be planted at that location, and two individuals in the restoration area, as part of the VMP (Biolink 2020) establishment phase works. The replacement and additional plants will be derived from local native stock and will be of a suitable size (50-75cm) at time of planting. The specimen will be adequately protected and will be monitored as part of the VMP implementation (Biolink 2020).

3) *Tree clearing required for the sewer line*. The sewer line occurs mostly in open paddocks with a small number of small trees requiring removal.

The Vegetation Management Plan (VMP) (Biolink 2020) for the development has incorporated compensation measures to offset the numbers and species of native trees that will need to be removed. These measures include replantings (as detailed in the VMP replanting schedule) to restore open areas and gaps created through weed control within the designated rehabilitation areas.

Several trees were observed with hollows that appeared to be used, with possum scats underneath. A common brushtail possum and a common ringtail possum dray were observed during the field survey (see Photos 3 and 4).

Photo 3: Example of tree hollow

Photo 4: Common brushtail possum

4.0 Implementation

Implementation of the Tree Removal Plan is to be guided by Appendix 2 (Measures for Tree Clearing - Protection and Management of Vegetation and Welfare of Animals During Vegetation Removal - Checklist), in order to minimise impacts to all retained vegetation and to wildlife.

The location of fencing to protect the area of *Macadamia tetraphylla* (Rough-shelled Bush Nut) in the north-eastern corner of the site is shown on Figure 1 and is detailed in the VMP. Tree number 457 in the Tree Removal Schedule (Appendix 1) is a 2m-high *Macadamia integrifolia* that self-propagated from a seed that was dispersed to the site by the landowner. This tree is located on the immediate edge of the planned sewer line and the intention will be to retain this tree in-situ if possible (see Figure 5).

Threatened Plant Salvage – Lepiderema pulchella

Lepiderema pulchella (Fine-leaved Tuckeroo) is a listed threatened species in the vulnerable category both within NSW and nationally. The emergence of several individuals of *Lepiderema pulchella* since the original assessment by Biolink (2011) necessitates the salvage translocation of these plants, which comprise two individuals over 1m in height, as well as eight seedlings-juveniles.

The salvage of *Lepiderema pulchella* plants is to be undertaken prior to tree clearing. There will be no clearing of non-threatened vegetation under this Tree Removal Plan

until the *Lepiderema pulchella* plants identified for salvage have been removed from the clearing area.

The *Lepiderema pulchella* plants to be salvaged are located between plants 1-6 in the Tree Removal Schedule, as identified in Figures 1 and 3d of this Plan. As there is potential for further germination of *Lepiderema pulchella* plants, a further search is to be undertaken under the windbreak trees prior to their removal. Any additional located specimens are to be included in the salvage operation. The transplants are to be planted primarily in the restoration areas (Management Zone 1 of the VMP), with a few specimens to be planted into the rehabilitation area (Management Zone 2 of the VMP).

Prior to salvaging, a health assessment of each specimen is to be recorded. Healthy plants are to be directly transplanted into pre-prepared holes, in accordance with the planting requirements in Section 4.3.4 of the VMP (Biolink 2020). Plants exhibiting signs of poor health (e.g., insect attack, rust, lack of new growth) are to be potted and maintained until considered sufficiently healthy for planting. All plants are to be trimmed of 75% of foliage prior to salvaging, in order to reduce transpiration.

When extracting the plants, care must be taken to minimize damage to the root system by leaving adequate soil around the root ball. The transplants are to be placed into a large pot with soil from the site and watered well in readiness for transfer to the restoration and rehabilitation areas or to a nursery for maintenance. All transplanted specimens are to be adequately watered following replanting to maximize survival.

Records of transplanted individuals are to include plant number, plant health at the time of transplanting, whether directly planted or potted, date of transplanting, timing of watering over the first 12 months, and survival of transplants.

The transplanted plants are to be monitored monthly for the first six months after replanting, and 6-monthly for a further 4.5 years. Monitoring is to include:

- *Growth*: height of plants;
- *Health:* signs of heat stress, with any signs of disease and pest damage addressed promptly; and
- Survival: assess options for addressing any loses, e.g., by collecting seed from adjacent areas to propagate additional plants, or watering more frequently.

The salvage of *Lepiderema pulchella* is also addressed in Sections 3.4, 4.3.1 and 4.3.2 of the VMP (Biolink 2020) and will be consistent with the Australian Network for Plant Conservation's translocation guidelines (Vallee *et al.* 2004).

References

BCA Check 2020. *Additional Information – Bushfire: Lot 5 DP 1117326, Lot 1 DP 134787, Lot 1 DP 167380, & Lot 2 DP 961928 Walmsley's Road and Stott Street, Bilambil Heights Major Project No. 05-0198.* Report prepared for Darryl Anderson Town Planning Consultants.

Biolink. 2020. *Revised Vegetation Management Plan Lot 1 DP 167380, Lot 2 DP 961928, Lot 1 DP 134787 & Lot 5 DP1117326 Walmsley's Road, Bilambil Heights.* Prepared for Darryl Anderson Consulting Pty Ltd. Biolink Ecological Consultants, Uki. NSW.

Vallee, L., Hogbin, T., Monks, L., Makinson, B., Matthes, M., & Rossetto, M. 2004. *Guidelines for the translocation of threatened plants in Australia*. Second Edition. Australian Network for Plant Conservation. Canberra.

FIGURES

Figure 1: Tree Location Plan Overview

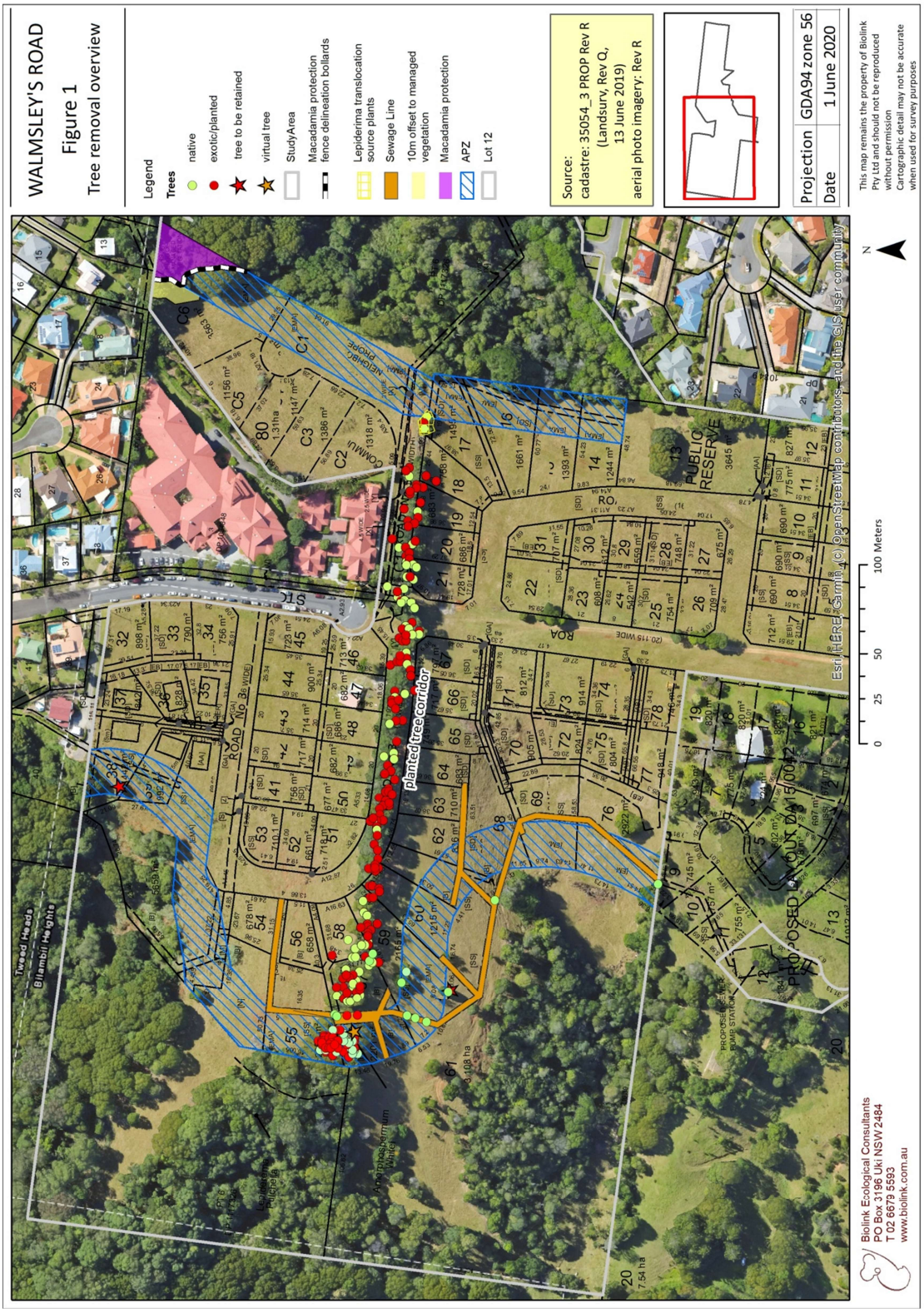

Figure 2: Tree Location Planted Windbreak

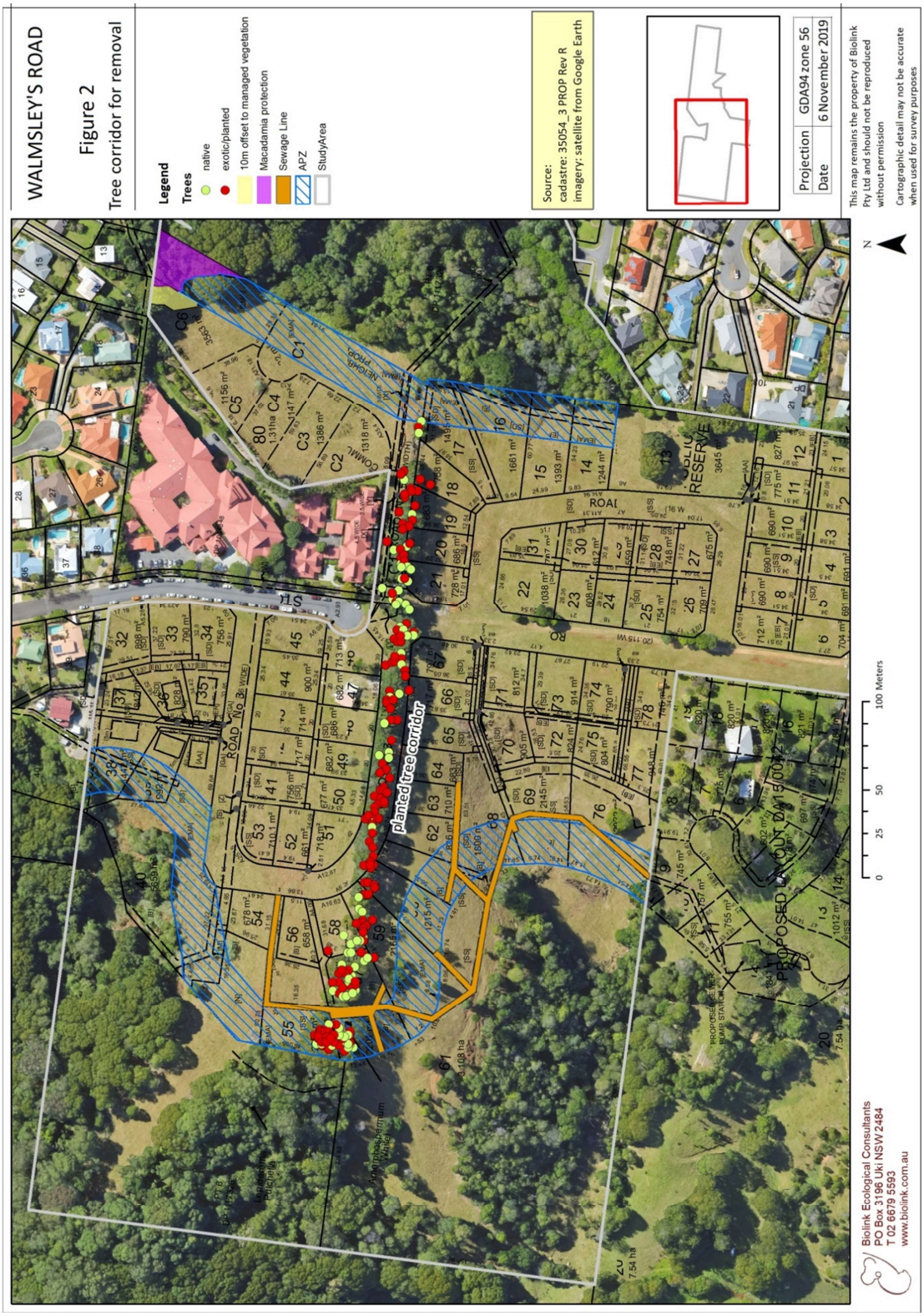

Figure 3a: Tree Location Planted Windbreak - Section 1

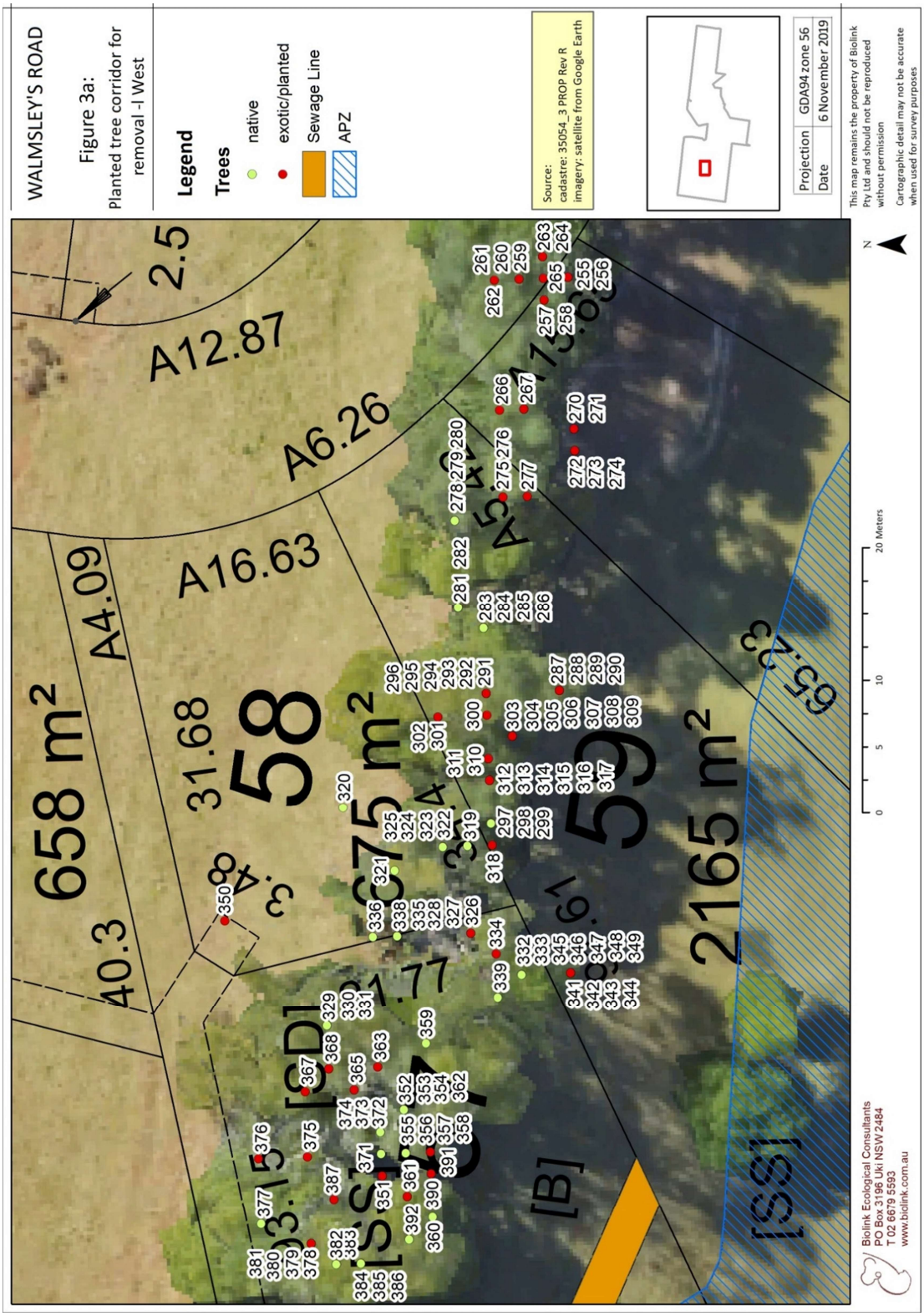

Figure 3b: Tree Location Planted Windbreak - Section 2

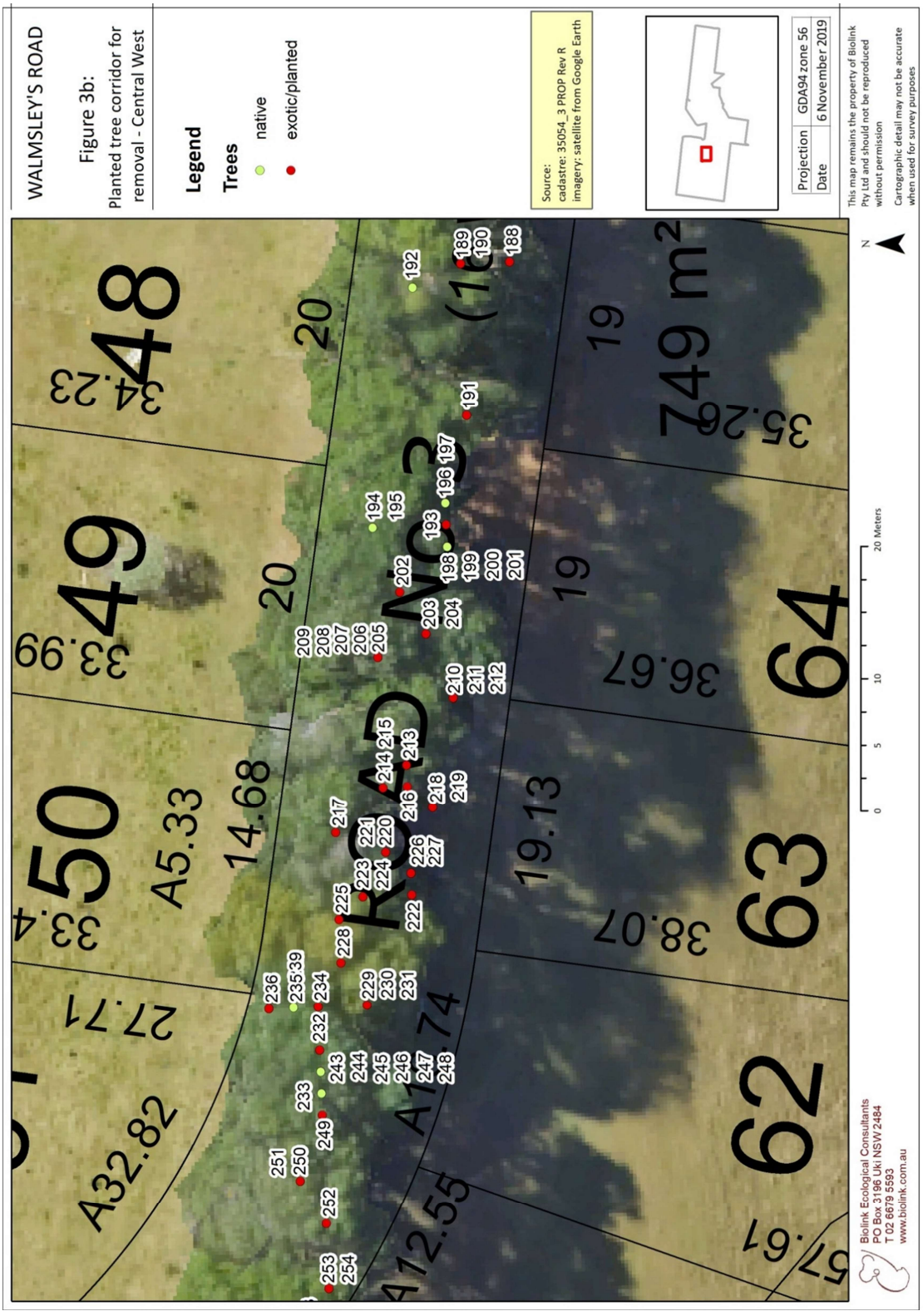

Figure 3c: Tree Location Planted Windbreak - Section 3

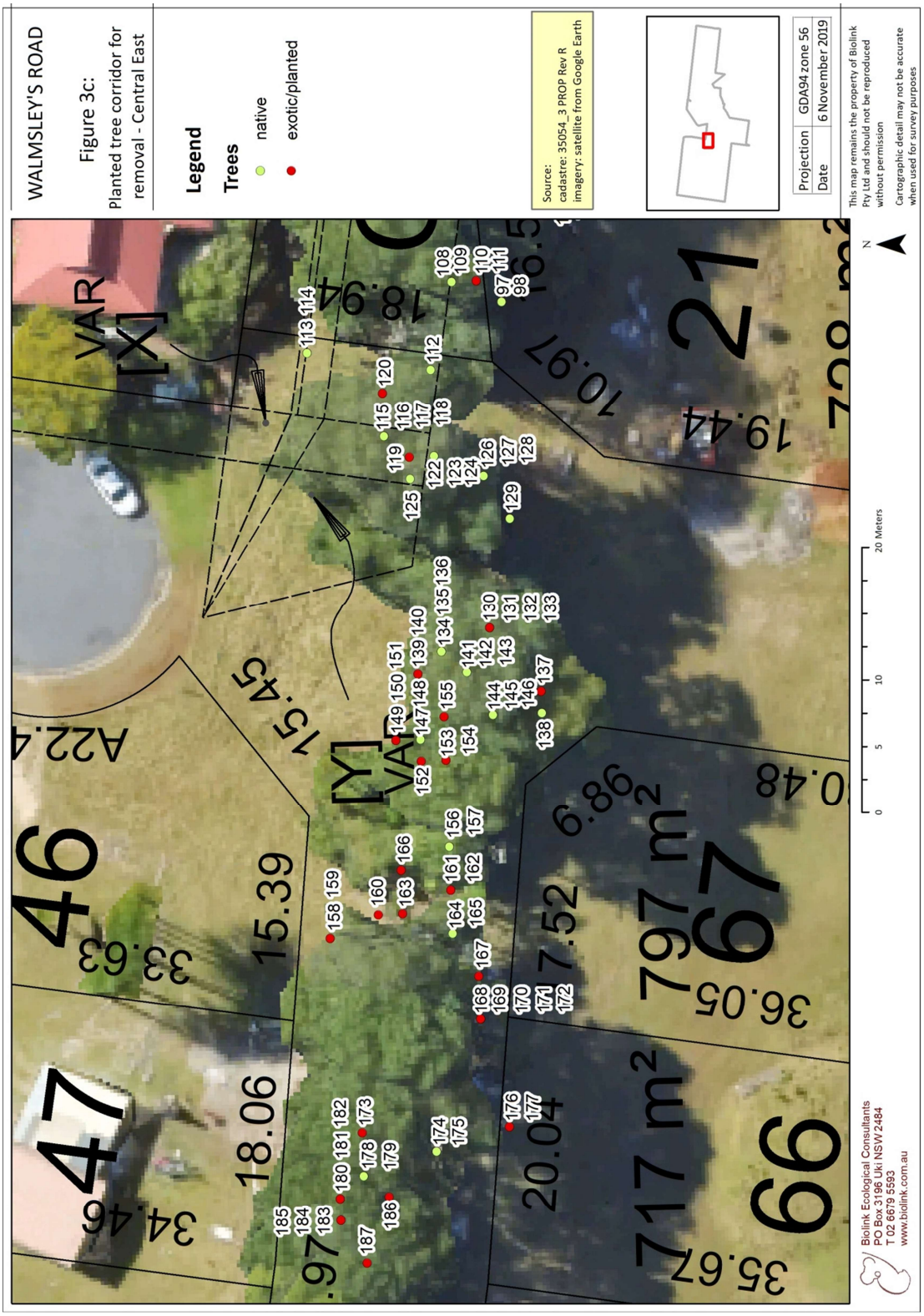

Figure 3d: Tree Location Planted Windbreak - Section 4

Figure 4: Tree Removal - Asset Protection Zone

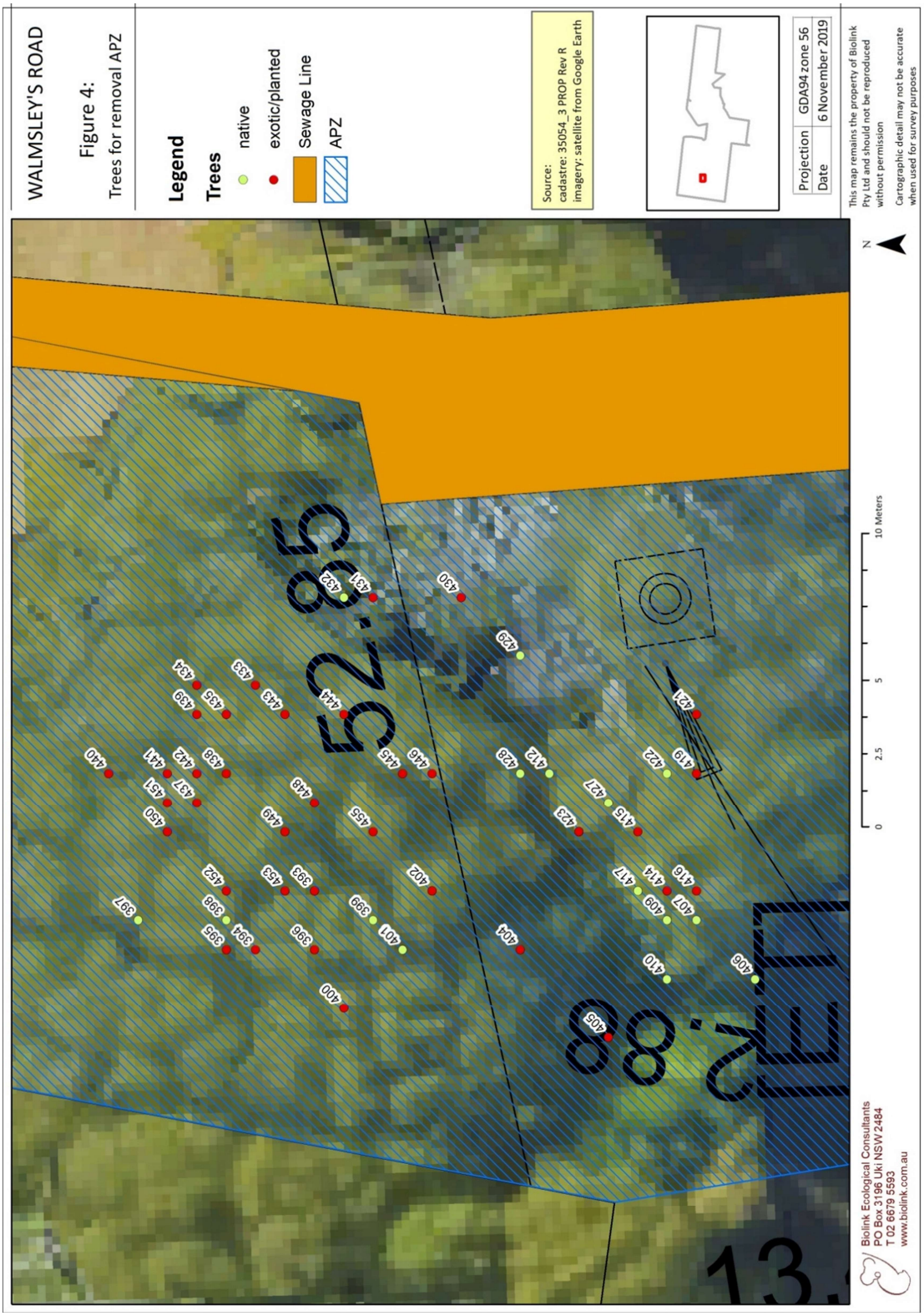

Figure 5: Tree Removal - Sewer Line and adjacent Asset Protection Zone

APPENDIX 1: Tree Removal Schedule

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
1	*Cinnamomum camphora*	Camphor Laurel	S 28º11.721'	E 153º29.711'	4	
2	*Guioa semiglauca*	Guioa	S 28º11.721'	E 153º29.711'	2.3	
3	*Cinnamomum camphora*	Camphor Laurel	S 28º11.720'	E 153º29.709'	9	3 stems dead
4	*Cinnamomum camphora*	Camphor Laurel	S 28º11.720'	E 153º29.707'	4	
5	*Cinnamomum camphora*	Camphor Laurel	S 28º11.720'	E 153º29.707'	4	
6	*Macaranga tanarius*	Macaranga	S 28º11.720'	E 153º29.707'	3.75	
7	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.691'	5	
8	*Guioa semiglauca*	Guioa	S 28º11.715'	E 153º29.691'	4.5	
9	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.694'	5	
10	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.694'	4	
11	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.694'	4	
12	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.694'	3	
13	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.694'	4	
14	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.694'	6	
15	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.694'	4	
16	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.686'	5	Dead
17	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.686'	4.5	
18	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.693'	6	
19	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.693'	5	
20	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.693'	5	
21	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.693'	5	
22	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.693'	6	
23	*Cinnamomum camphora*	Camphor Laurel	S 28º11.720'	E 153º29.691'	5	2 stems dead
24	*Cinnamomum camphora*	Camphor Laurel	S 28º11.720'	E 153º29.691'	4.5	
25	*Cinnamomum camphora*	Camphor Laurel	S 28º11.720'	E 153º29.691'	1.7	
26	*Cinnamomum camphora*	Camphor Laurel	S 28º11.719'	E 153º29.687'	5	Main stem dead
27	*Cinnamomum camphora*	Camphor Laurel	S 28º11.717'	E 153º29.688'	5	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
28	*Cinnamomum camphora*	Camphor Laurel	S 28º11.717'	E 153º29.688'	6	
29	*Cinnamomum camphora*	Camphor Laurel	S 28º11.723'	E 153º29.689'	6	
30	*Cinnamomum camphora*	Camphor Laurel	S 28º11.723'	E 153º29.689'	3	
31	*Cinnamomum camphora*	Camphor Laurel	S 28º11.723'	E 153º29.689'	6	
32	*Melaleuca quinquenervia*	Broad-leaved Paperbark	S 28º11.723'	E 153º29.689'	10	Dead, Orange Cockspur all way to top
33	*Cinnamomum camphora*	Camphor Laurel	S 28º11.723'	E 153º29.689'	7	
34	*Cinnamomum camphora*	Camphor Laurel	S 28º11.723'	E 153º29.689'	4	
35	*Cinnamomum camphora*	Camphor Laurel	S 28º11.717'	E 153º29.687'	5	
36	*Cinnamomum camphora*	Camphor Laurel	S 28º11.717'	E 153º29.687'	4	
37	*Syncarpia glomulifera*	Turpentine	S 28º11.715'	E 153º29.685'	11	
38	*Syncarpia glomulifera*	Turpentine	S 28º11.717'	E 153º29.679'	8	
39	*Macaranga tanarius*	Macaranga	S 28º11.717'	E 153º29.679'	5	
40	*Jagera pseudorhus*	Foambark	S 28º11.717'	E 153º29.679'	2	
41	*Cinnamomum camphora*	Camphor Laurel	S 28º11.718'	E 153º29.682'	5	
42	*Cinnamomum camphora*	Camphor Laurel	S 28º11.718'	E 153º29.682'	4	
43	*Cinnamomum camphora*	Camphor Laurel	S 28º11.718'	E 153º29.682'	5	
44	*Cinnamomum camphora*	Camphor Laurel	S 28º11.718'	E 153º29.682'	5	
45	*Cinnamomum camphora*	Camphor Laurel	S 28º11.718'	E 153º29.682'	6	
46	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.686'	5	Main stem dead
47	*Syncarpia glomulifera*	Turpentine	S 28º11.715'	E 153º29.686'	8	
48	*Syzygium oleosum*	Blue Lilly Pilly	S 28º11.715'	E 153º29.686'	5	
49	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.686'	5	
50	*Cinnamomum camphora*	Camphor Laurel	S 28º11.715'	E 153º29.686'	5	Main stem dead
51	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.680'	7	
52	*Syncarpia glomulifera*	Turpentine	S 28º11.713'	E 153º29.680'	6.5	Dead

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
53	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.680'	3.5	
54	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.680'	10	
55	*Cinnamomum camphora*	Camphor Laurel	S 28º11.717'	E 153º29.677'	7	
56	*Cinnamomum camphora*	Camphor Laurel	S 28º11.717'	E 153º29.677'	9	One stem dead
57	*Syncarpia glomulifera*	Turpentine	S 28º11.714'	E 153º29.676'	10	
58	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.716'	E 153º29.675'	5	
59	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.716'	E 153º29.675'	4.5	
60	*Cinnamomum camphora*	Camphor Laurel	S 28º11.716'	E 153º29.675'	7	
61	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.716'	E 153º29.675'	3	
62	*Cinnamomum camphora*	Camphor Laurel	S 28º11.716'	E 153º29.675'	6	
63	*Syncarpia glomulifera*	Turpentine	S 28º11.716'	E 153º29.675'	13	
64	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.714'	E 153º29.674'	3.5	
65	*Syncarpia glomulifera*	Turpentine	S 28º11.714'	E 153º29.674'	6.5	
66	*Guioa semiglauca*	Guioa	S 28º11.714'	E 153º29.674'	5	
67	*Guioa semiglauca*	Guioa	S 28º11.714'	E 153º29.674'	4.5	
68	*Syncarpia glomulifera*	Turpentine	S 28º11.714'	E 153º29.674'	5	Dead
69	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.674'	10	Possum scats underneath
70	*Mallotus philippensis*	Red Kamala	S 28º11.711'	E 153º29.667'	4	
71	*Mallotus philippensis*	Red Kamala	S 28º11.711'	E 153º29.667'	4	
72	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.711'	E 153º29.667'	2.5	
73	*Notelaea longifolia*	Mock Olive	S 28º11.711'	E 153º29.667'	7	
74	*Guioa semiglauca*	Guioa	S 28º11.715'	E 153º29.668'	4.5	
75	*Syncarpia glomulifera*	Turpentine	S 28º11.715'	E 153º29.668'	13	
76	*Alectryon tomentosa*	Hairy Birds Eye	S 28º11.715'	E 153º29.668'	4	
77	*Ficus fraseri*	Sandpaper Fig	S 28º11.709'	E 153º29.670'	2	
78	*Syncarpia glomulifera*	Turpentine	S 28º11.709'	E 153º29.670'	13	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
79	*Clerodendrum floribundum*	Smooth Clerodendrum	S 28º11.716'	E 153º29.669'	3.5	
80	*Synoum glandulosum*	Scentless Rosewood	S 28º11.716'	E 153º29.669'	1.5	
81	*Cinnamomum camphora*	Camphor Laurel	S 28º11.716'	E 153º29.669'	9	
82	*Syncarpia glomulifera*	Turpentine	S 28º11.713'	E 153º29.667'	15	
83	*Lepiderima pulchella*	Fine-leaved Tuckeroo	S 28º11.713'	E 153º29.667'	3	
84	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.713'	E 153º29.667'	3	
85	*Duranta repens*	Geisha Girl, Duranta	S 28º11.713'	E 153º29.667'	3.5	
86	*Syncarpia glomulifera*	Turpentine	S 28º11.713'	E 153º29.664'	15	
87	*Duranta repens*	Geisha Girl, Duranta	S 28º11.713'	E 153º29.664'	2	
88	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.665'	9	
89	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.714'	E 153º29.665'	5	
90	*Syncarpia glomulifera*	Turpentine	S 28º11.714'	E 153º29.665'	13	
91	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.662'	8	
92	*Syzygium smithii*	Lilly Pilly	S 28º11.713'	E 153º29.662'	3	
93	*Syncarpia glomulifera*	Turpentine	S 28º11.714'	E 153º29.663'	13	
94	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.714'	E 153º29.663'	3.5	
95	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.714'	E 153º29.663'	4	
96	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.663'	8	
97	*Synoum glandulosum*	Scentless Rosewood	S 28º11.715'	E 153º29.656'	4	
98	*Synoum glandulosum*	Scentless Rosewood	S 28º11.715'	E 153º29.656'	6	
99	*Syncarpia glomulifera*	Turpentine	S 28º11.715'	E 153º29.661'	17	Possum observed in tree
100	*Synoum glandulosum*	Scentless Rosewood	S 28º11.715'	E 153º29.661'	3	Lots of rainforest seedlings-juveniles between tree

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
						100 and 113
101	*Synoum glandulosum*	Scentless Rosewood	S 28º11.715'	E 153º29.661'	5	
102	*Synoum glandulosum*	Scentless Rosewood	S 28º11.715'	E 153º29.661'	8	
103	*Synoum glandulosum*	Scentless Rosewood	S 28º11.715'	E 153º29.661'	4	
104	*Synoum glandulosum*	Scentless Rosewood	S 28º11.716'	E 153º29.660'	6	
105	*Synoum glandulosum*	Scentless Rosewood	S 28º11.716'	E 153º29.660'	5	
106	*Synoum glandulosum*	Scentless Rosewood	S 28º11.713'	E 153º29.661'	4.5	
107	*Synoum glandulosum*	Scentless Rosewood	S 28º11.713'	E 153º29.661'	5	
108	*Synoum glandulosum*	Scentless Rosewood	S 28º11.713'	E 153º29.657'	5	
109	*Synoum glandulosum*	Scentless Rosewood	S 28º11.713'	E 153º29.657'	6	
110	*Synoum glandulosum*	Scentless Rosewood	S 28º11.714'	E 153º29.657'	7	
111	*Syncarpia glomulifera*	Turpentine	S 28º11.714'	E 153º29.657'	16	
112	*Synoum glandulosum*	Scentless Rosewood	S 28º11.712'	E 153º29.653'	3.5	
113	*Syncarpia glomulifera*	Turpentine	S 28º11.707'	E 153º29.654'	15	
114	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.707'	E 153º29.654'	3.75	
115	*Synoum glandulosum*	Scentless Rosewood	S 28º11.710'	E 153º29.650'	3.5	
116	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.710'	E 153º29.650'	2	
117	*Jagera pseudorhus*	Foambark	S 28º11.710'	E 153º29.650'	1.8	
118	*Synoum glandulosum*	Scentless Rosewood	S 28º11.710'	E 153º29.650'	5.5	
119	*Syncarpia glomulifera*	Turpentine	S 28º11.711'	E 153º29.649'	15	
120	*Syncarpia glomulifera*	Turpentine	S 28º11.710'	E 153º29.652'	13	
121	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.710'	E 153º29.652'	3.5	
122	*Synoum glandulosum*	Scentless Rosewood	S 28º11.712'	E 153º29.649'	5	
123	*Mallotus philippensis*	Red Kamala	S 28º11.712'	E 153º29.649'	10	
124	*Synoum glandulosum*	Scentless Rosewood	S 28º11.712'	E 153º29.649'	2	
125	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.711'	E 153º29.648'	6	
126	*Guioa semiglauca*	Guioa	S 28º11.714'	E 153º29.648'	3.5	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
127	*Guioa semiglauca*	Guioa	S 28º11.714'	E 153º29.648'	4.5	
128	*Synoum glandulosum*	Scentless Rosewood	S 28º11.714'	E 153º29.648'	3.5	
129	*Cinnamomum virens*	Red-barked Sassafras	S 28º11.715'	E 153º29.646'	9	Rust infection
130	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.641'	6	
131	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.641'	4	
132	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.641'	4	
133	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.641'	7	
134	*Jagera pseudorhus*	Foambark	S 28º11.712'	E 153º29.640'	6	
135	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.712'	E 153º29.640'	3	
136	*Alectryon tomentosa*	Hairy Birds Eye	S 28º11.712'	E 153º29.640'	5	
137	*Cinnamomum camphora*	Camphor Laurel	S 28º11.716'	E 153º29.638'	3.5	
138	*Alectryon tomentosa*	Hairy Birds Eye	S 28º11.716'	E 153º29.637'	3.5	
139	*Syncarpia glomulifera*	Turpentine	S 28º11.711'	E 153º29.639'	15	
140	*Cinnamomum camphora*	Camphor Laurel	S 28º11.711'	E 153º29.639'	9	
141	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.639'	10	
142	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.639'	6	
143	*Jagera pseudorhus*	Foambark	S 28º11.713'	E 153º29.639'	3.5	
144	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.637'	10	
145	*Cinnamomum camphora*	Camphor Laurel	S 28º11.714'	E 153º29.637'	9	
146	*Guioa semiglauca*	Guioa	S 28º11.714'	E 153º29.637'	2.5	
147	*Guioa semiglauca*	Guioa	S 28º11.711'	E 153º29.636'	3.5	
148	*Guioa semiglauca*	Guioa	S 28º11.711'	E 153º29.636'	4.5	
149	*Syncarpia glomulifera*	Turpentine	S 28º11.710'	E 153º29.636'	9	Dead; hollows in use
150	*Cinnamomum camphora*	Camphor Laurel	S 28º11.710'	E 153º29.636'	2.5	
151	*Cinnamomum camphora*	Camphor Laurel	S 28º11.710'	E 153º29.636'	6	
152	*Cinnamomum camphora*	Camphor Laurel	S 28º11.711'	E 153º29.635'	6	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
153	*Syncarpia glomulifera*	Turpentine	S 28º11.712'	E 153º29.635'	15	Nest or dray
154	*Cinnamomum camphora*	Camphor Laurel	S 28º11.712'	E 153º29.635'	2.5	
155	*Cinnamomum camphora*	Camphor Laurel	S 28º11.712'	E 153º29.637'	5	
156	*Schefflera actinophylla*	Umbrella Tree	S 28º11.712'	E 153º29.631'	4	
157	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.712'	E 153º29.631'	3.5	Dead
158	*Syncarpia glomulifera*	Turpentine	S 28º11.707'	E 153º29.627'	3.5	
159	*Cinnamomum camphora*	Camphor Laurel	S 28º11.707'	E 153º29.627'	5	
160	*Syncarpia glomulifera*	Turpentine	S 28º11.709'	E 153º29.628'	5.5	
161	*Schefflera actinophylla*	Umbrella Tree	S 28º11.712'	E 153º29.629'	4.5	
162	*Cinnamomum camphora*	Camphor Laurel	S 28º11.712'	E 153º29.629'	7	
163	*Syncarpia glomulifera*	Turpentine	S 28º11.710'	E 153º29.628'	9	
164	*Ficus macrophylla*	Moreton Bay Fig	S 28º11.712'	E 153º29.627'	7	
165	*Jagera pseudorhus*	Foambark	S 28º11.712'	E 153º29.627'	9	
166	*Syagrus romanzoffiana*	Cocos Palm	S 28º11.710'	E 153º29.630'	7 to 9	Plants outliers - north of main band of vegetation
167	*Syncarpia glomulifera*	Turpentine	S 28º11.713'	E 153º29.625'	15	Hollows in use
168	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.623'	8	
169	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.623'	6	
170	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.713'	E 153º29.623'	5	
171	*Syncarpia glomulifera*	Turpentine	S 28º11.713'	E 153º29.623'	13	
172	*Cinnamomum camphora*	Camphor Laurel	S 28º11.713'	E 153º29.623'	8	
173	*Syncarpia glomulifera*	Turpentine	S 28º11.708'	E 153º29.618'	7	Dead
174	*Syncarpia glomulifera*	Turpentine	S 28º11.711'	E 153º29.617'	11	
175	*Apananthe philipiensis*	Native Elm	S 28º11.711'	E 153º29.617'	3.5	
176	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.714'	E 153º29.618'	3	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
177	*Syncarpia glomulifera*	Turpentine	S 28º11.714'	E 153º29.618'	7	Dead; hollows in use
178	*Syncarpia glomulifera*	Turpentine	S 28º11.708'	E 153º29.616'	15	
179	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.708'	E 153º29.616'	4.5	
180	*Syncarpia glomulifera*	Turpentine	S 28º11.707'	E 153º29.615'	16	
181	*Cinnamomum camphora*	Camphor Laurel	S 28º11.707'	E 153º29.615'	3.5	
182	*Cinnamomum camphora*	Camphor Laurel	S 28º11.707'	E 153º29.615'	6	
183	*Syncarpia glomulifera*	Turpentine	S 28º11.707'	E 153º29.614'	14	Planted
184	*Schefflera actinophylla*	Umbrella Tree	S 28º11.707'	E 153º29.614'	4.5	
185	*Cinnamomum camphora*	Camphor Laurel	S 28º11.707'	E 153º29.614'	5	
186	*Syncarpia glomulifera*	Turpentine	S 28º11.709'	E 153º29.615'	14	
187	*Syncarpia glomulifera*	Turpentine	S 28º11.708'	E 153º29.612'	15	
188	*Syncarpia glomulifera*	Turpentine	S 28º11.710'	E 153º29.608'	14	Hollows in use
189	*Syncarpia glomulifera*	Turpentine	S 28º11.708'	E 153º29.608'	12	
190	*Syncarpia glomulifera*	Turpentine	S 28º11.708'	E 153º29.608'	12	Hollows in use
191	*Syncarpia glomulifera*	Turpentine	S 28º11.708'	E 153º29.601'	13	
192	*Mallotus philippensis*	Red Kamala	S 28º11.706'	E 153º29.607'	3	
193	*Syncarpia glomulifera*	Turpentine	S 28º11.707'	E 153º29.596'	12	
194	*Syncarpia glomulifera*	Turpentine	S 28º11.704'	E 153º29.596'	12	
195	*Alectryon tomentosa*	Hairy Birds Eye	S 28º11.704'	E 153º29.596'	3.5	
196	*Syncarpia glomulifera*	Turpentine	S 28º11.707'	E 153º29.597'	12	
197	*Alectryon tomentosa*	Hairy Birds Eye	S 28º11.707'	E 153º29.597'	4	Dead
198	*Cinnamomum camphora*	Camphor Laurel	S 28º11.707'	E 153º29.595'	6	
199	*Cinnamomum camphora*	Camphor Laurel	S 28º11.707'	E 153º29.595'	5	
200	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.707'	E 153º29.595'	5	
201	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.707'	E 153º29.595'	6	
202	*Syncarpia glomulifera*	Turpentine	S 28º11.705'	E 153º29.593'	14	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
203	*Syncarpia glomulifera*	Turpentine	S 28º11.706'	E 153º29.591'	11	One stem dead; hollows in use
204	*Cinnamomum camphora*	Camphor Laurel	S 28º11.706'	E 153º29.591'	6	
205	*Syncarpia glomulifera*	Turpentine	S 28º11.704'	E 153º29.590'	11	
206	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.704'	E 153º29.590'	3.5	
207	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.704'	E 153º29.590'	4	
208	*Mallotus philippensis*	Red Kamala	S 28º11.704'	E 153º29.590'	5	
209	*Cinnamomum camphora*	Camphor Laurel	S 28º11.704'	E 153º29.590'	6	
210	*Syncarpia glomulifera*	Turpentine	S 28º11.707'	E 153º29.588'	12	
211	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.707'	E 153º29.588'	9	
212	*Cinnamomum camphora*	Camphor Laurel	S 28º11.707'	E 153º29.588'	3.5	Dead
213	*Syncarpia glomulifera*	Turpentine	S 28º11.705'	E 153º29.585'	9	
214	*Cinnamomum camphora*	Camphor Laurel	S 28º11.704'	E 153º29.584'	6	
215	*Syncarpia glomulifera*	Turpentine	S 28º11.704'	E 153º29.584'	9	
216	*Cinnamomum camphora*	Camphor Laurel	S 28º11.705'	E 153º29.584'	7	
217	*Syncarpia glomulifera*	Turpentine	S 28º11.702'	E 153º29.582'	14	
218	*Cinnamomum camphora*	Camphor Laurel	S 28º11.706'	E 153º29.583'	5	
219	*Syncarpia glomulifera*	Turpentine	S 28º11.706'	E 153º29.583'	12	
220	*Cinnamomum camphora*	Camphor Laurel	S 28º11.704'	E 153º29.581'	7	
221	*Cinnamomum camphora*	Camphor Laurel	S 28º11.704'	E 153º29.581'	10	
222	*Cinnamomum camphora*	Camphor Laurel	S 28º11.705'	E 153º29.579'	7	
223	*Cinnamomum camphora*	Camphor Laurel	S 28º11.703'	E 153º29.579'	6	Dead
223	*Cinnamomum camphora*	Camphor Laurel	S 28º11.703'	E 153º29.579'	12	
224	*Cinnamomum camphora*	Camphor Laurel	S 28º11.702'	E 153º29.578'	12	
226	*Cinnamomum camphora*	Camphor Laurel	S 28º11.705'	E 153º29.580'	9	
227	*Cinnamomum camphora*	Camphor Laurel	S 28º11.705'	E 153º29.580'	6	
228	*Cinnamomum camphora*	Camphor Laurel	S 28º11.702'	E 153º29.576'	4	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
229	*Syncarpia glomulifera*	Turpentine	S 28º11.703'	E 153º29.574'	7	One stem dead
230	*Cinnamomum camphora*	Camphor Laurel	S 28º11.703'	E 153º29.574'	5	
231	*Cinnamomum camphora*	Camphor Laurel	S 28º11.703'	E 153º29.574'	7.5	
232	*Mallotus philippensis*	Red Kamala	S 28º11.701'	E 153º29.570'	2	
233	*Mallotus philippensis*	Red Kamala	S 28º11.701'	E 153º29.570'	3.5	
234	*Syncarpia glomulifera*	Turpentine	S 28º11.701'	E 153º29.574'	12.5	
235	*Guioa semiglauca*	Guioa	S 28º11.700'	E 153º29.574'	3.5	
236	*Cinnamomum camphora*	Camphor Laurel	S 28º11.699'	E 153º29.574'	3.5	Chopped off with numerous reshoots
237	*Cinnamomum camphora*	Camphor Laurel	S 28º11.699'	E 153º29.574'	8	
238	*Cinnamomum camphora*	Camphor Laurel	S 28º11.699'	E 153º29.574'	5	
239	*Syncarpia glomulifera*	Turpentine	S 28º11.700'	E 153º29.575'	6	
240	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.575'	8	
241	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.575'	5	
242	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.575'	8.5	
243	*Syncarpia glomulifera*	Turpentine	S 28º11.701'	E 153º29.572'	12	
244	*Cinnamomum camphora*	Camphor Laurel	S 28º11.701'	E 153º29.572'	7.5	
245	*Syncarpia glomulifera*	Turpentine	S 28º11.701'	E 153º29.571'	12	
246	*Cinnamomum camphora*	Camphor Laurel	S 28º11.701'	E 153º29.571'	8	
247	*Syncarpia glomulifera*	Turpentine	S 28º11.701'	E 153º29.571'	13	
248	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.701'	E 153º29.571'	3.5	
249	*Syncarpia glomulifera*	Turpentine	S 28º11.701'	E 153º29.569'	14	
250	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.566'	3.5	
251	*Syncarpia glomulifera*	Turpentine	S 28º11.700'	E 153º29.566'	14	
252	*Cinnamomum camphora*	Camphor Laurel	S 28º11.701'	E 153º29.564'	6	
253	*Flindersia australis*	Teak	S 28º11.701'	E 153º29.561'	2.5	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
254	*Syncarpia glomulifera*	Turpentine	S 28º11.701'	E 153º29.561'	9	
255	*Syncarpia glomulifera*	Turpentine	S 28º11.701'	E 153º29.558'	13	
256	*Cinnamomum camphora*	Camphor Laurel	S 28º11.701'	E 153º29.558'	6	
257	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.700'	E 153º29.557'	2.5	
258	*Syncarpia glomulifera*	Turpentine	S 28º11.700'	E 153º29.557'	13	
259	*Syncarpia glomulifera*	Turpentine	S 28º11.699'	E 153º29.558'	13	
260	*Guioa semiglauca*	Guioa	S 28º11.699'	E 153º29.558'	5	
261	*Cinnamomum camphora*	Camphor Laurel	S 28º11.699'	E 153º29.558'	4	
262	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.558'	7	
263	*Syncarpia glomulifera*	Turpentine	S 28º11.700'	E 153º29.559'	13	
264	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.559'	5	
265	*Syncarpia glomulifera*	Turpentine	S 28º11.700'	E 153º29.558'	12	
266	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.552'	7	
267	*Cinnamomum camphora*	Camphor Laurel	S 28º11.699'	E 153º29.552'	9	
268	*Cinnamomum camphora*	Camphor Laurel	S 28º11.699'	E 153º29.552'	2.5	
269	*Syncarpia glomulifera*	Turpentine	S 28º11.699'	E 153º29.552'	9	
270	*Syncarpia glomulifera*	Turpentine	S 28º11.701'	E 153º29.551'	15	
271	*Cinnamomum camphora*	Camphor Laurel	S 28º11.701'	E 153º29.551'	3.5	
272	*Cinnamomum camphora*	Camphor Laurel	S 28º11.701'	E 153º29.550'	7	
273	*Cinnamomum camphora*	Camphor Laurel	S 28º11.701'	E 153º29.550'	5	
274	*Cinnamomum camphora*	Camphor Laurel	S 28º11.701'	E 153º29.550'	2.5	
275	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.548'	3.5	
276	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.548'	8	
277	*Cinnamomum camphora*	Camphor Laurel	S 28º11.699'	E 153º29.548'	11	Hollows in use
278	*Guioa semiglauca*	Guioa	S 28º11.696'	E 153º29.547'	3.5	
279	*Guioa semiglauca*	Guioa	S 28º11.696'	E 153º29.547'	3.5	
280	*Guioa semiglauca*	Guioa	S 28º11.696'	E 153º29.547'	3.5	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
281	*Cinnamomum camphora*	Camphor Laurel	S 28º11.696'	E 153º29.543'	6.5	
282	*Acacia melanoxylon*	Blackwood	S 28º11.696'	E 153º29.543'	5	
283	*Guioa semiglauca*	Guioa	S 28º11.697'	E 153º29.542'	4.5	
284	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.542'	5.5	
285	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.542'	3.5	
286	*Alectryon tomentosa*	Hairy Birds Eye	S 28º11.697'	E 153º29.542'	3	
287	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.539'	10	
288	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.539'	10	Hollows in use
289	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.539'	10	
290	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.539'	5.5	
291	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.539'	10	
292	*Guioa semiglauca*	Guioa	S 28º11.697'	E 153º29.539'	5.5	
293	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.539'	7	
294	*Mallotus philippensis*	Red Kamala	S 28º11.697'	E 153º29.539'	5	
295	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.697'	E 153º29.539'	5	
296	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.539'	9	
297	*Guioa semiglauca*	Guioa	S 28º11.697'	E 153º29.533'	9	
298	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.533'	7.5	
299	*Guioa semiglauca*	Guioa	S 28º11.697'	E 153º29.533'	3.5	
300	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.538'	12	
301	*Cinnamomum camphora*	Camphor Laurel	S 28º11.695'	E 153º29.538'	7	
302	*Cinnamomum camphora*	Camphor Laurel	S 28º11.695'	E 153º29.538'	5.5	
303	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.537'	9	
304	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.537'	7	
305	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.537'	4.5	
306	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.537'	0.5	Cut stump with numerous

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
						reshoots; many hollows in use
307	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.698'	E 153º29.537'	8	
308	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.537'	9	
309	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.537'	5.5	
310	*Mallotus philippensis*	Red Kamala	S 28º11.697'	E 153º29.536'	2.5	
311	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.536'	10	
312	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.535'	3	
313	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.535'	6	
314	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.535'	3.5	
315	*Notelaea longifolia*	Mock Olive	S 28º11.697'	E 153º29.535'	6	
316	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.535'	9	
317	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.535'	5	
318	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.532'	10	
319	*Mallotus philippensis*	Red Kamala	S 28º11.696'	E 153º29.532'	3.5	
320	*Guioa semiglauca*	Guioa	S 28º11.691'	E 153º29.534'	12	
321	Rainforest tree		S 28º11.693'	E 153º29.531'	8	Dead; unidentifiable
322	*Guioa semiglauca*	Guioa	S 28º11.695'	E 153º29.532'	9	
323	*Guioa semiglauca*	Guioa	S 28º11.695'	E 153º29.532'	6	Dead
324	*Cinnamomum camphora*	Camphor Laurel	S 28º11.695'	E 153º29.532'	3	
325	*Guioa semiglauca*	Guioa	S 28º11.695'	E 153º29.532'	4	Dead
326	*Cinnamomum camphora*	Camphor Laurel	S 28º11.696'	E 153º29.528'	10	
327	*Guioa semiglauca*	Guioa	S 28º11.696'	E 153º29.528'	10	
328	*Guioa semiglauca*	Guioa	S 28º11.696'	E 153º29.528'	8	+ 5 dead Guioa
329	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.690'	E 153º29.524'	5	
330	*Jagera pseudorhus*	Foambark	S 28º11.690'	E 153º29.524'	2	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
331	*Jagera pseudorhus*	Foambark	S 28º11.690'	E 153º29.524'	2.5	
332	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.526'	5	
333	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.526'	10	
334	*Cinnamomum camphora*	Camphor Laurel	S 28º11.697'	E 153º29.527'	7	
335	*Cinnamomum camphora*	Camphor Laurel	S 28º11.696'	E 153º29.528'	5	
336	*Cinnamomum camphora*	Camphor Laurel	S 28º11.692'	E 153º29.528'	9	
337	Rainforest tree		S 28º11.692'	E 153º29.528'	7	Dead; unidentifiable
338	*Mallotus philippensis*	Red Kamala	S 28º11.693'	E 153º29.528'	8	
339	*Syzygium smithii*	Lilly Pilly	S 28º11.697'	E 153º29.525'	9	
340	*Syzygium smithii*	Lilly Pilly	S 28º11.697'	E 153º29.525'	8	
341	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.526'	9	
342	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.526'	8	
343	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.526'	6	
344	*Cinnamomum camphora*	Camphor Laurel	S 28º11.700'	E 153º29.526'	10	
345	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.526'	9	
346	*Cinnamomum camphora*	Camphor Laurel	S 28º11.698'	E 153º29.526'	7	
347	*Syzygium smithii*	Lilly Pilly	S 28º11.698'	E 153º29.526'	2	
348	*Mallotus philippensis*	Red Kamala	S 28º11.698'	E 153º29.526'	3.5	
349	*Notelaea longifolia*	Mock Olive	S 28º11.698'	E 153º29.526'	3.5	
350	*Cinnamomum camphora*	Camphor Laurel	S 28º11.686'	E 153º29.529'	15	
351	*Cinnamomum camphora*	Camphor Laurel	S 28º11.692'	E 153º29.517'	9	
352	*Guioa semiglauca*	Guioa	S 28º11.693'	E 153º29.520'	10	
352	*Guioa semiglauca*	Guioa	S 28º11.693'	E 153º29.520'	11	
354	*Syagrus romanzoffiana*	Cocos Palm	S 28º11.693'	E 153º29.520'	6	
355	*Guioa semiglauca*	Guioa	S 28º11.693'	E 153º29.518'	7	Dead
356	*Guioa semiglauca*	Guioa	S 28º11.693'	E 153º29.518'	9	Dead

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
357	*Guioa semiglauca*	Guioa	S 28º11.693'	E 153º29.518'	7	
358	*Guioa semiglauca*	Guioa	S 28º11.693'	E 153º29.518'	10	
359	*Guioa semiglauca*	Guioa	S 28º11.694'	E 153º29.523'	8	Dead
360	*Elaeocarpus obovatus*	Hard Quandong	S 28º11.694'	E 153º29.515'	4.5	
361	*Mallotus philippensis*	Red Kamala	S 28º11.693'	E 153º29.516'	3.5	
362	*Guioa semiglauca*	Guioa	S 28º11.693'	E 153º29.520'	7	
363	*Guioa semiglauca*	Guioa	S 28º11.692'	E 153º29.522'	8	
364	*Cinnamomum camphora*	Camphor Laurel	S 28º11.692'	E 153º29.522'	5	
365	*Cinnamomum camphora*	Camphor Laurel	S 28º11.691'	E 153º29.521'	6	
366	*Cinnamomum camphora*	Camphor Laurel	S 28º11.691'	E 153º29.521'	9	
367	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.689'	E 153º29.521'	5	
368	*Cinnamomum camphora*	Camphor Laurel	S 28º11.690'	E 153º29.522'	8	
368	*Cinnamomum camphora*	Camphor Laurel	S 28º11.690'	E 153º29.522'	2	
370	*Cinnamomum camphora*	Camphor Laurel	S 28º11.690'	E 153º29.522'	1.5	
371	*Guioa semiglauca*	Guioa	S 28º11.692'	E 153º29.518'	3.5	
372	*Toechima dasyrrachne*	Blunt Steelwood	S 28º11.692'	E 153º29.519'	12	
373	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.692'	E 153º29.519'	8	
374	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.692'	E 153º29.519'	9	
375	*Ligustrum lucidum*	Broad-leaved Privet	S 28º11.689'	E 153º29.518'	5	
376	*Mangifera indica*	Mango	S 28º11.687'	E 153º29.518'	6	
377	*Guioa semiglauca*	Guioa	S 28º11.687'	E 153º29.515'	6.5	
378	*Cinnamomum camphora*	Camphor Laurel	S 28º11.689'	E 153º29.514'	6.5	
379	*Cinnamomum camphora*	Camphor Laurel	S 28º11.689'	E 153º29.514'	6.5	
380	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.689'	E 153º29.514'	3.5	
381	*Cinnamomum camphora*	Camphor Laurel	S 28º11.689'	E 153º29.514'	3.5	
382	*Cinnamomum camphora*	Camphor Laurel	S 28º11.690'	E 153º29.513'	6	
383	*Guioa semiglauca*	Guioa	S 28º11.690'	E 153º29.513'	9	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
384	*Guioa semiglauca*	Guioa	S 28º11.691'	E 153º29.513'	8	
385	*Cinnamomum camphora*	Camphor Laurel	S 28º11.691'	E 153º29.513'	10	
386	*Cupaniopsis anacardioides*	Tuckeroo	S 28º11.691'	E 153º29.513'	3.5	
387	*Cinnamomum camphora*	Camphor Laurel	S 28º11.690'	E 153º29.516'	11	
388	*Cinnamomum camphora*	Camphor Laurel	S 28º11.693'	E 153º29.516'	9	
389	*Cinnamomum camphora*	Camphor Laurel	S 28º11.693'	E 153º29.516'	12	
390	*Cinnamomum camphora*	Camphor Laurel	S 28º11.694'	E 153º29.517'	12	
391	*Cinnamomum camphora*	Camphor Laurel	S 28º11.694'	E 153º29.518'	8	
392	*Toechima dasyrrachne*	Blunt Steelwood	S 28º11.693'	E 153º29.514'	6	
			Easting	**Northing**		
393	*Mallotus philippensis*	Red Kamala	548250	6881126	2	
394	*Cinnamomum camphora*	Camphor Laurel	548248	6881128	14	2 trunks
395	*Cinnamomum camphora*	Camphor Laurel	548248	6881129	7.5	
396	*Cinnamomum camphora*	Camphor Laurel	548248	6881126	13	2 trunks
397	*Mallotus philippensis*	Red Kamala	548249	6881132	5	
398	*Mallotus philippensis*	Red Kamala	548249	6881129	2	
399	*Mallotus philippensis*	Red Kamala	548249	6881124	4	
400	*Cinnamomum camphora*	Camphor Laurel	548246	6881125	12	
401	*Cinnamomum camphora*	Camphor Laurel	548248	6881123	18	
402	*Cinnamomum camphora*	Camphor Laurel	548250	6881122	9	
403	*Mallotus philippensis*	Red Kamala	548248	6881123	1.7	
404	*Duranta repens*	Giesha Girl	548248	6881119	3	
405	*Cinnamomum camphora*	Camphor Laurel	548245	6881116	20	
406	*Syzygium smithii*	Lillypilly	548247	6881111	5	
407	*Cinnamomum camphora*	Camphor Laurel	548249	6881113	5	
408	*Guioa semiglauca*	Guioa	548249	6881113	5	
409	*Mallotus philippensis*	Red Kamala	548249	6881114	6	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
			Easting	Northing		
410	*Syzygium smithii*	Lillypilly	548247	6881114	5	
411	*Guioa semiglauca*	Guioa	548247	6881114	1.5	
412	*Synoum glandulosum*	Scentless Rosewood	548254	6881118	1	
413	*Cupaniopsis anacardioides*	Tuckeroo	548249	6881114	5	
414	*Cinnamomum camphora*	Camphor Laurel	548250	6881114	7	
415	*Cinnamomum camphora*	Camphor Laurel	548252	6881115	7	
416	*Cinnamomum camphora*	Camphor Laurel	548250	6881113	3	
417	*Guioa semiglauca*	Guioa	548250	6881115	20	Dying
418	*Mallotus philippensis*	Red Kamala	548249	6881114	6	
419	*Guioa semiglauca*	Guioa	548254	6881113	10	
420	*Cinnamomum camphora*	Camphor Laurel	548254	6881113	8	
421	*Cinnamomum camphora*	Camphor Laurel	548256	6881113	18	
422	*Jagera pseudorhus*	Foambark	548254	6881114	3.5	
423	*Cinnamomum camphora*	Camphor Laurel	548252	6881117	6	
424	*Mallotus philippensis*	Red Kamala	548252	6881117	4	
425	*Cinnamomum camphora*	Camphor Laurel	548252	6881117	8	
426	*Cinnamomum camphora*	Camphor Laurel	548252	6881117	8	
427	Rainforest tree	Rainforest species	548253	6881116	8	Dying/Dead
428	*Mallotus philippensis*	Red Kamala	548254	6881119	12	
429	*Alectryon tomentosus*	Hairy Birds Eye	548258	6881119	4	
430	*Cinnamomum camphora*	Camphor Laurel	548260	6881121	2.5	
431	*Cinnamomum camphora*	Camphor Laurel	548260	6881124	25	6 trunks
432	*Guioa semiglauca*	Guioa	548260	6881125	9	
433	*Cinnamomum camphora*	Camphor Laurel	548257	6881128	25	3 trunks
434	*Cinnamomum camphora*	Camphor Laurel	548257	6881130	11	
435	*Cinnamomum camphora*	Camphor Laurel	548256	6881129	7	

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
			Easting	Northing		
436	*Cinnamomum camphora*	Camphor Laurel	548256	6881129	10	
437	*Cinnamomum camphora*	Camphor Laurel	548253	6881130	15	
438	*Cinnamomum camphora*	Camphor Laurel	548254	6881129	14	
439	*Cinnamomum camphora*	Camphor Laurel	548256	6881130	28	
440	*Cinnamomum camphora*	Camphor Laurel	548254	6881133	8	
441	*Cinnamomum camphora*	Camphor Laurel	548254	6881131	8	
442	*Cinnamomum camphora*	Camphor Laurel	548254	6881130	6	
443	*Cinnamomum camphora*	Camphor Laurel	548256	6881127	25	3 trunks
444	*Cinnamomum camphora*	Camphor Laurel	548256	6881125	6	
445	*Cinnamomum camphora*	Camphor Laurel	548254	6881123	5	
446	*Cinnamomum camphora*	Camphor Laurel	548254	6881122	9	
447	*Cinnamomum camphora*	Camphor Laurel	548250	6881122	7	
448	*Cinnamomum camphora*	Camphor Laurel	548253	6881126	25	2 trunks
449	*Cinnamomum camphora*	Camphor Laurel	548252	6881127	25	
450	*Cinnamomum camphora*	Camphor Laurel	548252	6881131	9	
451	*Cinnamomum camphora*	Camphor Laurel	548253	6881131	13	
452	*Cinnamomum camphora*	Camphor Laurel	548250	6881129	26	
453	*Cinnamomum camphora*	Camphor Laurel	548250	6881127	27	
454	*Cinnamomum camphora*	Camphor Laurel	548250	6881126	25	
455	*Cinnamomum camphora*	Camphor Laurel	548342	6880938	8	
456	Rainforest tree	Rainforest species	548315	6881022	1.5	
457	*Macadamia integrifolia*	Macadamia	548336	6881020	2	* Germinated from seed dispersed by landholder
458	*Cupaniopsis anacardioides*	Tuckeroo	548301	6881037	5	With a Foambark (4m)

Tree No.	Species - Scientific Name	Common Name	Latitude	Longitude	Height (m)	Notes
			Easting	Northing		
459	*Cupaniopsis anacardioides*	Tuckeroo	548301	6881059	12	
460	*Jagera pseudorhus*	Foambark	548282	6881055	9	
461	*Elaeocarpus reticulatis*	Blueberry Ash	548265	6881067	8	
462	*Cinnamomum camphora*	Camphor Laurel	548291	6881104	20	
463	*Cinnamomum camphora*	Camphor Laurel	548262	6881096	20	With a Red Kamala (2.5m) + Foambark (3m)
464	*Mallotus philippensis*	Red Kamala	548263	6881103	5	
465	*Guioa semiglauca*	Guioa	548262	6881102	6	
466	*Guioa semiglauca*	Guioa	548262	6881062	6	
467	*Guioa semiglauca*	Guioa	548260	6881058	7	
468	*Cupaniopsis anacardioides*	Tuckeroo	548293	6881084	8	
469	*Cupaniopsis anacardioides*	Tuckeroo	548297	6881082	7	
TREES TO BE RETAINED WITHIN THE ASSET PROTECTION ZONE (APZ)						
Tree 1	*Mallotus philippensis*	Red Kamala	548402	6881240	10	
Tree 2	*Flindersia australis*	Teak	548285	6881063	12	

* To be retained if possible.

APPENDIX 2: MEASURES FOR TREE CLEARING - PROTECTION AND MANAGEMENT OF VEGETATION AND WELFARE OF ANIMALS DURING VEGETATION REMOVAL - CHECKLIST

This checklist is to guide engaged contractors and sub-contractors. These measures are to be implemented before and throughout the tree removal.

☐ A qualified arborist with experience in tree surgery, tree care, and working with native wildlife and wildlife carers should be engaged. It is preferable that the engaged arborist has a procedure to minimise the potential for injury to wildlife.

PROTECTION AND MANAGEMENT OF VEGETATION

☐ Hygiene management is to be applied to all stages of the tree removal.

☐ The arborist is to ensure all tools, equipment and vehicles are to be cleaned free of weed propagules and potential pathogens, such as *Phytophthora*.

☐ The boundary of the clearing on the western edge is to be delineated using orange construction barrier tape. This is to identify the **"no-go zones"**.

☐ Erect signs that identify the area beyond the barrier tape as a "no-go zone".

☐ Mark trees with hollows and possum drays and bird nests with red tape to indicate trees that may contain wildlife.

☐ Conduct pre-construction briefing for construction workers and subcontractors.

☐ No other trees are to be removed other than those identified in the Tree Removal Plan.

☐ If a tree to be retained is damaged, immediately assess the situation and apply the appropriate level of treatment to facilitate recovery.

☐ The arborist is to ensure no direct physical wounds to trees being retained, that result in:
- potential for decay and disease to enter wounds and scraped off bark;
- roots being torn through improper excavation;
- roots being bruised and crushed;
- roots in topsoil being lost, reducing access to oxygen and moisture; and
- structural support of trees being lost, causing stress to the tree.

WELFARE OF ANIMALS DURING VEGETATION REMOVAL

The arborist is to minimise impacts, and manage disruptions to wildlife, including possums, gliders, bats, and nesting birds when undertaking vegetation removal activities. Where possible, avoid tree trimming of hollow trees between May to July (late autumn to mid-winter) when fauna are most likely to be using hollows. Where tree clearing will be undertaken toward the end of July and August, added awareness of the potential for wildlife to be using hollows should be exercised.

Pre tree removal-trimming activities

☐ A wildlife spotter-catcher is to be present throughout tree clearing activities and for woodchipping-mulching activities for trees identified as containing hollows.

☐ Prior to clearing, hollow-bearing trees should be flagged with red tape and should be shaken or nudged with tree-felling equipment prior to felling in order to encourage any fauna present to vacate the hollow.

☐ If no wildlife emerges from hollows after shaking and nudging, the tree can be felled and lowered to the ground where possible.

☐ If an animal emerges from hollows after shaking and nudging, at least 30 minutes should be allowed for the animal(s) to leave the tree. After the animal has exited the tree and moved outside the construction zone, the tree may be felled.

☐ Once a tree is felled a search will be made by the spotter-catcher of the branches for any animals and hollows inspected with a torch for the presence of animals.

☐ Retain as many tree sections containing hollows and bush rocks as possible for later deployment in areas of retained vegetation.

☐ Wildlife with possible injuries or that are not of independent age should be captured and transferred to a suitably cotton bag or transport cage by the spotter-catcher prior to arranging transfer to Tweed Valley Wildlife Carers or Currumbin Sanctuary Wildlife Hospital as soon as possible.

☐ Uninjured animals should be released into appropriate habitat at the site beyond the construction zone as soon as practicable (e.g., at night for nocturnal species).

☐ Any wildlife injuries or deaths are to be reported to Council.