



Addendum 1 to Arboricultural Inspection Report Buchan Caves Reserve, North Arm Tree Inspection Survey, 2023 Impact Analysis of Proposed Buildings on Trees

Brief

Parks Victoria have requested that Arboriculture Pty Ltd carry out an impact analysis of proposed accommodation buildings on existing trees included in the 2023 tree survey within the North Arm area of Buchan Caves reserve.

In addition to the immediate impacts of the buildings on trees, it has been requested that an assessment be done of trees and larger shrubs required to be removed within a 35m buffer zone (defendable space) of the proposed buildings.

Analysis and report

In addition to the 2023 tree inspection tree survey, a follow-up survey was done in March 2025 to map trees within a nominated 35m BAL zone.

A desktop analysis of probable impacts of proposed buildings was carried out using guidance provided in AS4970-2009 *Protection of Trees on Development Sites*.

Plans provided by Plico Design Studio (4/12/2024, Drawing A101, Proposed Site Plan), show the proposed building footprints with trees and elevation contours. The plans were provided in CAD (dwg) and pdf formats without geospatial coordinate systems. The plans show only the footprints and dimensions of the buildings and not any services or excavations required and as such only the footprints of the buildings is taken into account in the analysis.

The provided plans were imported into a GIS (geographical information system) system and georeferenced with CAD plans supplied previously.

The location of trees and larger shrubs within the 35m buffer zone were mapped with information including species, estimated height and width and, arboricultural retention value assessed.

Under Australian Standard AS4970-2009 TPZ encroachments with an area of up to 10% of a tree's TPZ (tree protection zone) are considered *minor* encroachments provided they are outside the SRZ (structural root zone). TPZ encroachments of 10% or more are considered *major* encroachments.

For the impact analysis, the consultant arborist determines if the impact within the encroached area (e.g. depth of cut or fill, permeable or non-permeable surface, etc.) is likely to affect the tree's health or stability and to what degree. Desktop impact analysis can be further supported by fieldwork (e.g. non-destructive digging) to discover actual roots within the encroached TPZ area that would be damaged or destroyed.

In considering the impacts of proposed TPZ encroachments the arborist may take into account the presence of existing or past structures or obstacles affecting root growth. Tree roots are opportunistic and grow where conditions are conducive: roots do not proliferate in dry soils or soils with high bulk density which may be considered obstacles to root growth.

Summary of Impact Analysis

Building Impacts

The area of interest is defined using 35m radius buffer zones from the buildings (one area surrounding 5 proposed accommodation units. Trees from the 2023 tree inspection survey and a follow-up survey in 2025 falling within the project area are included in this report addendum. Please see the Method section of the parent report for further information regarding the tree survey method.

Fifty-three (53) trees were included in the impact analysis: 33 exotic (non-Australian origin) trees, 19 Victorian native trees and 1 Australian native tree (originating from outside of Victoria).

Seven (7) trees will have major encroachments and significant impacts to their root systems: 1 low retention, 5 medium retention and 1 high retention tree. None of these trees have been previously assessed as being impacted by the landscape works for the proposed swale or indicated for tree removal for arboricultural reasons independent of constructions (e.g. removal due to poor health or structure).

The trees removed due to proposed building impacts are: 2333, 2334, 2336, 2337, 2338, 2339 and 2502 (high retention value tree reference numbers underlined). See Table 1 below for tree details.

All other trees apart from tree 602, *Brachychiton populneus* (Kurrajong) will suffer minor or no encroachments or impacts from the buildings.

Defendable Space

To meet BAL 29 requirements 42 trees will need to be removed not including young and semimature saplings and shrubby trees (mainly *Bursaria spinosa* (Bursaria) and *Melicytus dentatus* (Tree violet). Twelve of the trees have been rated low retention value, 27 and medium retention value and 3 as high retention value.

The individual trees removed to achieve defendable space are: 579, 581, 582, 583, 598, 599, 600, 601, 602, 607, 2316, 2321, 2335, 2340, 2501, 2505, 2507, 2508, 2509, 2510, 2511, 2519, 2526, 2528, 2529, 2541, 2542, 2543, 2544,

2548, 2549, 2552, 2555, 2556, 2557, 2558, 2560, 2561, 2565, 2568, 2574 and 2582 (high retention value tree reference numbers underlined).

Groups of trees and larger shrubs

In addition to individual trees identified within the 35m buffer of the proposed accommodation units, dense groups or thickets of mainly sapling trees and larger shrubby trees were assessed as groups. Species such as *Bursaria spinosa* can sometimes present as a shrub and other times as a tree (the Flora of Victoria state that the species is a "low shrub to a tree up to c. 8 m high"). Estimates were made of the approximate number of individuals in the groups with a total of around 237. The estimate is considered approximate and should not be relied on beyond helping to estimate how much vegetation could be planted to replace its loss should that option be decided on.

Of the trees included in the groups it was estimated that approximately 227 would need to be removed.

See the attached plans *Tree Retention, Removal & Planting Plan, North Arm Redevelopment Plan (BAL zones)*, *Buchan Caves Reserve (A3)* and *Tree Retention, Removal & Planting Plan, North Arm Redevelopment Plan (full length)* for locations of trees surveyed.

Arborist advice

Four (4) trees within the North Arm area, trees 633, 2307, 2308 and 2309 have been recommended for removal for arboricultural reasons (e.g. dead or poor health, structure or risk). These are all low retention value trees.

Trees impacted by the proposed swale construction

Twenty-nine (29) trees are to be removed due to impacts from the construction of a swale (see parent report for impact details).

The trees are: 538, 539, 541, 543, 544, 545, 561, 562, 563, 564, 565, 567, 568, 570, 571, 572, 574, 575, 595, 624, 626, 629, 2302, 2305, 2314, 2315, 2317, 2319 and 2320.

Trees with the 35m BAL buffer area are: 575, 595, 2314, 2315, 2317, 2319 and 2320 (high retention value tree reference numbers underlined).

Trees at risk from swale impacts

Four (4) trees will likely suffer high impacts from the construction of the swale but are of a retention value that makes it worth while trying to retain them if possible.

These are trees 2322, 540, 548 and 627 (high retention value tree reference numbers underlined). Only tree, 2322, is within the 35m BAL zone.

Trees indicated as "At risk from swale" require an arborist to be present during swale excavation works to determine if tree can be safely retained based on root impacts. It is possible the arborist may be able to guide excavation works to minimise damage to the trees during the works. It is recommended that the arborist be a qualified consultant with more than 5 years experience.

Tree plantings

Locations for possible new plantings were plotted on plans attached. The locations chosen take into account constraints such as existing tracks, steep rocky ground and BAL space required between canopies for trees within the 35m buffer zone. The locations do not take into account existing camping sites and as such adjustments may need to be made when choosing the actual planting locations on site. The locations should be taken only as a guide and common sense and practical considerations should be used when placing trees.

Eucalyptus polyanthemos (Red box) or other similar species as approved by GLaWAC has been suggested as replacements by Parks Victoria.

Table 1 Summary of trees removal/replacement numbers

Item	Tree count	Comments
Necessary Regrowth & Sapling Tree Removal for BAL 29 Compliance	227	Estimated 227 in groups (mainly regrowth) - Not For Replacement
Necessary Mature Tree and Specimen Tree Removal for BAL 29 Compliance	42	42 individual trees mapped - For Replacement
Necessary Tree Removal for Swale/Flood Mitigation Works & Building impacts	36	Trees requiring removal within North Arm area (7 due to building impacts)
Trees at Risk of Removal for Swale/Flood Mitigation Works	4	Arborist to oversee and guide works with a view to retention if possible
Arborist's advice	4	Trees recommended for removal due to health/structure considerations
Total for Removal & Replacement	86	
New planting within the North Arm	30	See Tree Retention, Removal & Planting Plan (full length) A1 Plan
New planting outside the North Arm	51	To be located elsewhere outside North Arm, due to limited open space
Spare Planting outside the North Arm	4	In case trees at risk need to be removed
Total New Plantings to replace trees removed.	85	Does not include replacing group trees (mainly regrowth)

Table 1 Trees within North Arm (including 35m buffer areas of proposed buildings), Buchan Caves Reserve

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
153	<i>Populus × canadensis</i>	Exotic	Mature	30+ / 30m	Retained			No
154	<i>Populus × canadensis</i>	Exotic	Mature	30+ / 30m	Retained			No
167	<i>Ulmus glabra</i> 'Lutescens'	Exotic	Mature	25-29m / 30m	Retained			No
525	<i>Fraxinus angustifolia</i>	Exotic	Mature	20-24m / 12m	Retained			No
529	<i>Fraxinus</i> 'Raywood'	Exotic	Mature	25-29m / 14m	Retained			No
531	<i>Fraxinus angustifolia</i>	Exotic	Mature	25-29m / 11m	Retained			No
532	<i>Tilia x europaea</i>	Exotic	Mature	15-19m / 6m	Retained			No
534	<i>Fraxinus angustifolia</i>	Exotic	Mature	20-24m / 6m	Retained			No
538	<i>Gleditsia triacanthos</i> 'Sunburst'	Exotic	Mature	10-14m / 5m	Remove	Swale impacts		No
539	<i>Juglans regia</i>	Exotic	Mature	10-14m / 8m	Remove	Swale impacts		No
540	<i>Juglans regia</i>	Exotic	Mature	15-19m / 8m	At risk from swale			No
541	<i>Juglans regia</i>	Exotic	Mature	15-19m / 14m	Remove	Swale impacts		No
543	<i>Betula pendula</i>	Exotic	Mature	15-19m / 4m	Remove	Swale impacts		No
544	<i>Betula pendula</i>	Exotic	Mature	10-14m / 4m	Remove	Swale impacts		No
545	<i>Betula pendula</i>	Exotic	Mature	15-19m / 6m	Remove	Swale impacts		No
548	<i>Platanus ? orientalis</i>	Exotic	Mature	20-24m / 19m	At risk from swale			No
553	<i>Pinus halepensis</i>	Exotic	Mature	10-14m / 12m	Retained			No
561	<i>Fraxinus angustifolia</i>	Exotic	Semimature	10-14m / 5m	Remove	Swale impacts		No
562	<i>Tilia x europaea</i>	Exotic	Mature	25-29m / 12m	Remove	Swale impacts		No
563	<i>Fraxinus</i> 'Raywood'	Exotic	Mature	30+ / 15m	Remove	Swale impacts		No
564	<i>Populus nigra var. italica</i>	Exotic	Mature	20-24m / 2m	Remove	Swale impacts		No

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
565	<i>Fraxinus angustifolia</i>	Exotic	Mature	10-14m / 8m	Remove	Swale impacts		No
567	<i>Fraxinus</i> 'Raywood'	Exotic	Mature	30+ / 20m	Remove	Swale impacts		No
568	<i>Populus nigra var. italica</i>	Exotic	Mature	20-24m / 2m	Remove	Swale impacts		No
570	<i>Tilia x europaea</i>	Exotic	Mature	25-29m / 15m	Remove	Swale impacts		No
571	<i>Fraxinus angustifolia</i> 'Raywood'	Exotic	Mature	30+ / 20m	Remove	Swale impacts		No
572	<i>Populus nigra var. italica</i>	Exotic	Mature	20-24m / 3m	Remove	Swale impacts		No
574	<i>Tilia x europaea</i>	Exotic	Mature	20-24m / 12m	Remove	Swale impacts		No
575	<i>Tilia x europaea</i>	Exotic	Mature	20-24m / 12m	Remove	Swale impacts		Yes
579	<i>Hesperocyparis macrocarpa</i>	Exotic	Semimature	10-14m / 10m	Remove	Defendable space		Yes
580	<i>Eucalyptus tereticornis</i> subsp. <i>mediana</i>	Vic Native	Mature	30+ / 20m	Retained		Very high retention value eucalypt, may require a small amount of pruning so its canopy does not overhang the south most accommodation unit to meet BAL 29 requirements	Yes
581	<i>Brachychiton populneus</i>	Vic Native	Mature	10-14m / 8m	Remove	Defendable space		Yes
582	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	10-14m / 8m	Remove	Defendable space		Yes
583	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	10-14m / 9m	Remove	Defendable space		Yes
586	<i>Tilia x europaea</i>	Exotic	Mature	20-24m / 12m	Retained			No
587	<i>Fraxinus</i> 'Raywood'	Exotic	Mature	25-29m / 24m	Retained			No
588	<i>Tilia x europaea</i>	Exotic	Mature	25-29m / 12m	Retained			No

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
589	<i>Fraxinus 'Raywood'</i>	Exotic	Mature	25-29m / 16m	Retained			No
590	<i>Fraxinus angustifolia</i>	Exotic	Semimature	10-14m / 8m	Retained			No
591	<i>Brachychiton populneus</i>	Vic Native	Mature	8m / 5m	Retained			No
594	<i>Eucalyptus viminalis</i>	Vic Native	Mature	25-29m / 23m	Retained			Yes
595	<i>Quercus rubra</i>	Exotic	Semimature	9m / 5m	Remove	Swale impacts		Yes
598	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	15-19m / 5m	Remove	Defendable space		Yes
599	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	15-19m / 4m	Remove	Defendable space		Yes
600	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	15-19m / 5m	Remove	Defendable space		Yes
601	<i>Allocasuarina littoralis</i>	Vic Native	Mature	10-14m / 8m	Remove	Defendable space		Yes
602	<i>Brachychiton populneus</i>	Vic Native	Mature	10-14m / 8m	Remove	Defendable space		Yes
607	<i>Bursaria spinosa</i>	Vic Native	Mature	2m / 2m	Remove	Defendable space		Yes
608	<i>Eucalyptus viminalis</i>	Vic Native	Mature	10m / 1m	Retained			Yes
609	<i>Tilia x europaea</i>	Exotic	Mature	15-19m / 9m	Retained			No
612	<i>Fraxinus angustifolia</i>	Exotic	Mature	15m / 16m	Retained			No
614	<i>Tilia cordata</i>	Exotic	Semimature	10m / 8m	Retained			No
615	<i>Fraxinus angustifolia</i>	Exotic	Mature	20m / 16m	Retained			No
616	<i>Fraxinus angustifolia</i>	Exotic	Mature	18m / 18m	Retained			No
617	<i>Fraxinus angustifolia</i>	Exotic	Mature	18m / 16m	Retained			No
618	<i>Fraxinus angustifolia</i>	Exotic	Mature	17m / 15m	Retained			No
623	<i>Eucalyptus tereticornis</i> subsp. <i>mediana</i>	Vic Native	Mature	25-29m / 23m	Retained			Yes
624	<i>Fraxinus angustifolia</i>	Exotic	Semimature	10-14m / 9m	Remove	Swale impacts		No
625	<i>Fraxinus excelsior 'Aurea'</i>	Exotic	Semimature	8m / 5m	Retained			No
626	<i>Fraxinus angustifolia</i>	Exotic	Mature	15-19m / 16m	Remove	Swale impacts		No

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
627	<i>Fraxinus angustifolia</i>	Exotic	Mature	15-19m / 13m	At risk from swale			No
628	<i>Tilia cordata</i>	Exotic	Semimature	10-14m / 6m	Retained			No
629	<i>Fraxinus angustifolia</i>	Exotic	Mature	15-19m / 14m	Remove	Swale impacts		No
630	<i>Tilia cordata</i>	Exotic	Mature	20-24m / 9m	Retained			No
632	<i>Eucalyptus elata</i>	Vic Native	Mature	30+ / 24m	Retained			No
633	<i>Fraxinus angustifolia</i>	Exotic	Mature	15-19m / 16m	Remove	Arborist advice		No
2301	<i>Chamaecyparis lawsoniana</i>	Exotic	Semimature	7m / 7m	Retained			No
2302	<i>Juglans regia</i>	Exotic	Semimature	6m / 6m	Remove	Swale impacts		No
9999	<i>Eucalyptus viminalis</i>	Vic Native	Mature	25m / 14m	Retained			No
2303	<i>Fraxinus excelsior 'Aurea'</i>	Exotic	Semimature	6m / 4m	Retained			No
2304	<i>Pistacia chinensis</i>	Exotic	Semimature	8m / 4m	Retained			No
2305	<i>Juglans regia</i>	Exotic	Mature	15-19m / 8m	Remove	Swale impacts		No
2306	<i>Juglans regia</i>	Exotic	Mature	10-14m / 10m	Retained			No
2307	<i>Fraxinus excelsior 'Aurea'</i>	Exotic	Semimature	4m / 2m	Remove	Arborist advice		No
2308	<i>Pinus halepensis</i>	Exotic	Mature	25-29m / 12m	Remove	Arborist advice		No
2309	<i>Pinus halepensis</i>	Exotic	Mature	25-29m / 12m	Remove	Arborist advice		No
2310	<i>Pinus halepensis</i>	Exotic	Mature	25-29m / 12m	Retained			No
2311	<i>Pinus halepensis</i>	Exotic	Mature	25-29m / 18m	Retained			No
2312	<i>Pinus halepensis</i>	Exotic	Mature	25-29m / 8m	Retained			No
2313	<i>Pinus halepensis</i>	Exotic	Mature	25-29m / 14m	Retained			No
2314	<i>Liquidambar styraciflua</i>	Exotic	Semimature	10-14m / 5m	Remove	Swale impacts		Yes
2315	<i>Fraxinus excelsior 'Aurea'</i>	Exotic	Semimature	10-14m / 5m	Remove	Swale impacts		Yes
2316	<i>Acer platanoides 'Crimson King'</i>	Exotic	Semimature	3m / 5m	Remove	Defendable space		Yes

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
2317	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	3m / 4m	Remove	Swale impacts		Yes
2318	<i>Melicytus dentatus</i>	Vic Native	Mature	5m / 3m	Retained			Yes
2319	<i>Hakea laurina</i>	Aus Native	Young	2m / 1m	Remove	Swale impacts		Yes
2320	<i>Eucalyptus melliodora</i>	Vic Native	Mature	10-14m / 6m	Remove	Swale impacts		Yes
2321	<i>Fraxinus 'Raywood'</i>	Exotic	Young	4m / 3m	Remove	Defendable space		Yes
2322	<i>Eucalyptus melliodora</i>	Vic Native	Mature	15-19m / 7m	At risk from swale			Yes
2323	<i>Corymbia maculata</i>	Vic Native	Semimature	10-14m / 4m	Retained			No
2324	<i>Callitris glaucophylla</i>	Vic Native	Mature	10-14m / 3m	Retained			No
2325	<i>Chamaecyparis lawsoniana</i>	Exotic	Semimature	8m / 4m	Retained			No
2326	<i>Fraxinus sp.</i>	Exotic	Young	2m / 1m	Retained			No
2327	<i>Eucalyptus sp.</i>	Aus Native	Semimature	20-24m / 6m	Retained			No
2328	<i>Eucalyptus viminalis</i>	Vic Native	Mature	25-29m / 15m	Retained			No
2329	<i>Eucalyptus sp.</i>	Aus Native	Semimature	10-14m / 4m	Retained			No
2330	<i>Eucalyptus melliodora</i>	Vic Native	Mature	25-29m / 16m	Retained			No
2331	<i>Eucalyptus melliodora</i>	Vic Native	Mature	15-19m / 8m	Retained			No
2332	<i>Eucalyptus sp.</i>	Aus Native	Mature	20-24m / 10m	Retained			No
2333	<i>Pinus sp.</i>	Exotic	Semimature	9m / 6m	Remove	Building impacts		Yes
2334	<i>Picea sitchensis</i>	Exotic	Young	1m / 1m	Remove	Building impacts		Yes
2335	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	10-14m / 2m	Remove	Defendable space		Yes
2336	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	10-14m / 2m	Remove	Building impacts		Yes
2337	<i>Fraxinus 'Raywood'</i>	Exotic	Mature	15-19m / 10m	Remove	Building impacts		Yes
2338	<i>Abies sp.</i>	Exotic	Young	1m / 1m	Remove	Building impacts		Yes

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
2339	<i>Brachychiton populneus</i>	Vic Native	Semimature	6m / 2m	Remove	Building impacts		Yes
2340	<i>Acacia caerulescens</i>	Vic Native	Mature	15-19m / 7m	Remove	Defendable space		Yes
2501	<i>Eucalyptus melliodora</i>	Vic Native	Mature	15-19m / 14m	Remove	Defendable space		Yes
2502	<i>Fraxinus excelsior 'Aurea'</i>	Exotic	Semimature	4m / 3m	Remove	Building impacts		Yes
2503	<i>Thuja plicata</i>	Exotic	Young	2m / 1m	Retained			Yes
2504	<i>Eucalyptus viminalis</i>	Vic Native	Mature	20-24m / 16m	Retained			Yes
2505	<i>Eucalyptus viminalis</i>	Vic Native	Mature	20-24m / 5m	Remove	Defendable space		Yes
2506	<i>Picea pungens f. glauca</i>	Exotic	Semimature	3m / 3m	Retained			Yes
2507	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	15-19m / 4m	Remove	Defendable space		Yes
2508	<i>Eucalyptus viminalis</i>	Vic Native	Mature	15-19m / 10m	Remove	Defendable space		Yes
2509	<i>Fraxinus excelsior 'Aurea'</i>	Exotic	Semimature	9m / 6m	Remove	Defendable space		Yes
2510	<i>Fraxinus excelsior 'Aurea'</i>	Exotic	Semimature	10-14m / 5m	Remove	Defendable space		Yes
2511	<i>Acer palmatum</i>	Exotic	Young	3m / 1m	Remove	Defendable space		Yes
2512	<i>Pinus halepensis</i>	Exotic	Semimature	8m / 7m	Retained			No
2513	<i>Pinus halepensis</i>	Exotic	Semimature	10-14m / 10m	Retained			No
2514	<i>Pinus halepensis</i>	Exotic	Semimature	8m / 7m	Retained			No
2515	<i>Fraxinus excelsior</i>	Exotic	Young	4m / 4m	Retained			No
2516	<i>Melicytus dentatus</i>	Vic Native	Mature	3m / 4m	Retained			No
2517	<i>Melicytus dentatus</i>	Vic Native	Mature	3m / 3m	Retained			No
2518	<i>Bursaria spinosa</i>	Vic Native	Mature	8m / 3m	Retained			No
2519	<i>Eucalyptus viminalis</i>	Vic Native	Semimature	15-19m / 9m	Remove	Defendable space		Yes
2520	<i>Bursaria spinosa</i>	Vic Native	Mature	4m / 4m	Retained			No

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
2521	<i>Eucalyptus viminalis</i>	Vic Native	Semimature	15-19m / 5m	Retained			Yes
2522	<i>Acer negundo</i>	Exotic	Mature	10-14m / 13m	Retained		Also seedlings in area	No
2523	<i>Eucalyptus melliodora</i>	Vic Native	Semimature	10-14m / 4m	Retained			No
2524	<i>Acacia melanoxylon</i>	Vic Native	Semimature	5m / 4m	Retained			No
2525	<i>Acacia melanoxylon</i>	Vic Native	Semimature	4m / 3m	Retained			No
2526	<i>Acacia melanoxylon</i>	Vic Native	Mature	15-19m / 8m	Remove	Defendable space		Yes
2527	<i>Eucalyptus viminalis</i>	Vic Native	Mature	25-29m / 20m	Retained			Yes
2528	<i>Acacia melanoxylon</i>	Vic Native	Mature	15-19m / 8m	Remove	Defendable space		Yes
2529	<i>Eucalyptus viminalis</i>	Vic Native	Semimature	10-14m / 8m	Remove	Defendable space		Yes
2530	<i>Bursaria spinosa</i>	Vic Native	Mature	2m / 2m	Retained			No
2531	<i>Bursaria spinosa</i>	Vic Native	Mature	2m / 3m	Retained			No
G2532	<i>Acacia mearnsii</i>	Vic Native	Semimature	8m / 4m	Retain single specimens as shown in plans attached		Thickets of young A. mearnsii, Kunzea sp. and Eucalyptus viminalis. Generally 5-8cm dbh, 6-8m H, Thickets of Kunzea sp. at north	Yes
G2533	<i>Bursaria spinosa</i>	Vic Native	Semimature to Mature	2m / 2m	Retain single specimens as shown in plans attached		5-6 specimens 2m x 2m. Also Melicytus dentatus	Yes
G2534	<i>Acacia melanoxylon</i>	Vic Native	Young	10m / 3m	Retain single specimens as shown in plans attached		Dense young trees also a few Acacia mearnsii	Yes
G2535	<i>Acacia caerulescens</i>	Vic Native	Semimature	8m / 3m	Retain single specimens as shown in plans attached		10 young to semimature specimens. Largest 8m x 3m	Yes

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
G2536	<i>Correa reflexa</i>	Vic Native	Mature	5m / 3m	Retain single specimens as shown in plans attached		5 shrubs 3 x 3m	Yes
G2537	<i>Bursaria spinosa</i>	Vic Native	Semimature to Mature	3m / 4m	Retain single specimens as shown in plans attached		~ 8 shrubs 3m x 4m. Also <i>Melicytus dentatus</i>	Yes
G2538	<i>Bursaria spinosa</i>	Vic Native	Semimature to Mature	4m / 4m	Retain single specimens as shown in plans attached			No
G2539	<i>Acacia melanoxylon</i>	Vic Native	Young	4m / 2m	Retain single specimens as shown in plans attached		Young 4 x 2m. 6 specimens	No
2540	<i>Acacia melanoxylon</i>	Vic Native	Mature	13m / 3m	Retained			Yes
2541	<i>Eucalyptus polyanthemos</i>	Vic Native	Juvenile	2m / 1m	Remove	Defendable space	Planted specimen	Yes
2542	<i>Eucalyptus melliodora</i>	Vic Native	Juvenile	2m / 1m	Remove	Defendable space	Planted specimen	Yes
2543	<i>Eucalyptus polyanthemos</i>	Vic Native	Juvenile	2m / 1m	Remove	Defendable space	Planted specimen	Yes
2544	<i>Eucalyptus botryoides</i>	Vic Native	Semimature	9m / 3m	Remove	Defendable space	Planted specimen	Yes
2545	<i>Populus simonii</i>	Exotic	Semimature	8m / 4m	Retained		Planted specimen	Yes
2546	<i>Melaleuca ericifolia</i>	Vic Native	Semimature	3m / 2m	Retained		Planted specimen	Yes
2547	<i>Bursaria spinosa</i>	Vic Native	Mature	6m / 4m	Retained			Yes
2548	<i>Bursaria spinosa</i>	Vic Native	Mature	6m / 4m	Remove	Defendable space		Yes
2549	<i>Fraxinus angustifolia</i>	Exotic	Mature	13m / 12m	Remove	Defendable space	Weedy species	Yes
2550	<i>Acacia melanoxylon</i>	Vic Native	Mature	11m / 8m	Retained			Yes
2551	<i>Bursaria spinosa</i>	Vic Native	Mature	6m / 4m	Retained			Yes

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
2552	<i>Bursaria spinosa</i>	Vic Native	Semimature	5m / 4m	Remove	Defendable space		Yes
G2553	<i>Acacia mearnsii</i>	Vic Native	Young	8m / 4m	Retain single specimens as shown		Also <i>Bursaria spinosa</i> , <i>Acacia mearnsii</i> . About 10% of wattles are dead	Yes
2554	<i>Acacia mearnsii</i>	Vic Native	Semimature	10m / 4m	Retained			Yes
2555	<i>Bursaria spinosa</i>	Vic Native	Semimature	5m / 3m	Remove	Defendable space		Yes
2556	<i>Acacia mearnsii</i>	Vic Native	Semimature	10m / 4m	Remove	Defendable space		Yes
2557	<i>Acacia mearnsii</i>	Vic Native	Semimature	10m / 4m	Remove	Defendable space		Yes
2558	<i>Bursaria spinosa</i>	Vic Native	Mature	4m / 4m	Remove	Defendable space		Yes
2559	<i>Bursaria spinosa</i>	Vic Native	Mature	3m / 4m	Retained			Yes
2560	<i>Bursaria spinosa</i>	Vic Native	Mature	3m / 5m	Remove	Defendable space	Reclining form (stable)	Yes
2561	<i>Bursaria spinosa</i>	Vic Native	Mature	5m / 5m	Remove	Defendable space		Yes
2562	<i>Acacia mearnsii</i>	Vic Native	Young	5m / 3m	Retained			Yes
2563	<i>Bursaria spinosa</i>	Vic Native	Semimature	2m / 2m	Retained			Yes
2564	<i>Eucalyptus viminalis</i>	Vic Native	Mature	26m / 17m	Retained			Yes
2565	<i>Cassinia sp.</i>	Vic Native	Mature	3m / 4m	Remove	Defendable space		Yes
2566	<i>Bursaria spinosa</i>	Vic Native	Semimature	2m / 2m	Retained			Yes
2567	<i>Bursaria spinosa</i>	Vic Native	Semimature	2m / 2m	Retained			Yes
2568	<i>Bursaria spinosa</i>	Vic Native	Semimature	2m / 2m	Remove	Defendable space		Yes
2569	<i>Bursaria spinosa</i>	Vic Native	Mature	4m / 4m	Retained			Yes
2570	<i>Bursaria spinosa</i>	Vic Native	Mature	4m / 4m	Retained			Yes
2571	<i>Acacia melanoxylon</i>	Vic Native	Mature	11m / 8m	Retained			Yes
2572	<i>Acacia melanoxylon</i>	Vic Native	Mature	9m / 3m	Retained			No

Tree #	Species	Retention	Age	Height x Width (est. only)	Retention	Reason for Removal	Notes	35m Buffer area
2573	<i>Bursaria spinosa</i>	Vic Native	Semimature	4m / 4m	Retained			Yes
2574	<i>Acacia melanoxylon</i>	Vic Native	Mature	5m / 13m	Remove	Defendable space		Yes
2575	<i>Bursaria spinosa</i>	Vic Native	Semimature	3m / 2m	Retained			Yes
2576	<i>Bursaria spinosa</i>	Vic Native	Semimature	2m / 2m	Retained			Yes
2577	<i>Bursaria spinosa</i>	Vic Native	Semimature	2m / 2m	Retained			Yes
2579	<i>Acacia caerulescens</i>	Vic Native	Semimature	7m / 3m	Retained			Yes
G2580	<i>Acacia caerulescens</i>	Vic Native	Young	4m / 2m	Retain single specimens as shown			Yes
2581	<i>Bursaria spinosa</i>	Vic Native	Semimature	2m / 1m	Retained			Yes
2582	<i>Bursaria spinosa</i>	Vic Native	Semimature	2m / 2m	Remove	Defendable space		Yes
2583	<i>Bursaria spinosa</i>	Vic Native	Semimature	3m / 3m	Retained			Yes
2584	<i>Acacia caerulescens</i>	Vic Native	Young	2m / 1m	Retained			Yes
2585	<i>Melaleuca styphelioides</i>	Aus Native	Young	3m / 3m	Retained			Yes
2586	<i>Cupressus torulosa</i>	Exotic	Young	2m / 1m	Retained		Planted specimen requires clearing of weeds	Yes

Table of Photos

Tree #	Photo No	Species
579	Photo 1	<i>Hesperocyparis macrocarpa</i>
580	Photo 2	<i>Eucalyptus tereticornis subsp. mediana</i>
595	Photo 3	<i>Quercus rubra</i>
602	Photo 4	<i>Brachychiton populneus</i>
608	Photo 5	<i>Eucalyptus viminalis</i>
623	Photo 6	<i>Eucalyptus tereticornis subsp. mediana</i>
2316	Photo 7	<i>Acer platanoides 'Crimson King'</i>
2318	Photo 8	<i>Melicytus dentatus</i>
2319	Photo 9	<i>Hakea laurina</i>
2320	Photo 10	<i>Eucalyptus melliodora</i>
2321	Photo 11	<i>Fraxinus 'Raywood'</i>
2333	Photo 12	<i>Pinus sp.</i>
2334	Photo 13	<i>Picea sitchensis</i>
2335	Photo 14	<i>Eucalyptus melliodora</i>
2337	Photo 15	<i>Fraxinus 'Raywood'</i>
2339	Photo 16	<i>Brachychiton populneus</i>
2340	Photo 17	<i>Acacia caerulea</i>
2504	Photo 18	<i>Eucalyptus viminalis</i>
2505	Photo 19	<i>Eucalyptus viminalis</i>
2526	Photo 20	<i>Acacia melanoxylon</i>
G2532	Photo 21	<i>Acacia mearnsii</i>
G2533	Photo 22	<i>Bursaria spinosa</i>
G2534	Photo 23	<i>Acacia melanoxylon</i>
G2536	Photo 24	<i>Correa reflexa</i>
2540	Photo 25	<i>Acacia melanoxylon</i>
2541	Photo 26	<i>Eucalyptus polyanthemos</i>
2544	Photo 27	<i>Eucalyptus botryoides</i>
2545	Photo 28	<i>Populus simonii</i>
2546	Photo 29	<i>Melaleuca ericifolia</i>
2549	Photo 30	<i>Fraxinus angustifolia</i>
2550	Photo 31	<i>Acacia melanoxylon</i>
2559	Photo 32	<i>Bursaria spinosa</i>
2565	Photo 33	<i>Cassinia sp.</i>
2574	Photo 34	<i>Acacia melanoxylon</i>
2579	Photo 35	<i>Acacia caerulea</i>
2585	Photo 36	<i>Melaleuca styphelioides</i>

Tree Photos



Photo 1 from north-east: Tree 579



Photo 2 from north-west: Tree 580



Photo 3: Tree 595



Photo 4: Tree 602



Photo 5 from south: Tree 608



Photo 6: Tree 623



Photo 7: Tree 2316



Photo 8 from west: Tree 2318



Photo 9 from south-west: Tree 2319



Photo 10: Tree 2320



Photo 11: Tree 2321



Photo 12 from north: Tree 2333
stump in foreground could be
planting opportunity if ground out



Photo 13: Tree 2334



Photo 14: Tree 2335



Photo 15 from north-west: Tree
2337



Photo 16: Tree 2339



Photo 17: Tree 2340



Photo 18 from west: Tree 2504



Photo 19 from north: Tree 2505



Photo 20 from west: Tree 2526



Photo 21 from east: Tree group G2532 (100 trees) Kunzea and seedling Manna gum



Photo 22 from north-east: Tree group G2533 (6 trees)



Photo 23 from north-east: Tree group G2534 (200 trees) and tree 2501 left (taller specimen)



Photo 24 from north-east: Tree group G2536 (5 trees)



Photo 25 from south-east: Tree 2540



Photo 26 from south: Tree 2541



Photo 27 from north: Tree 2544



Photo 28 from north-east: Tree 2545



Photo 29 from north-east: Tree 2546



Photo 30 from west: Tree 2549



Photo 31 from north-west: Tree 2550



Photo 32 from south: Tree 2559



Photo 33 from south: Tree 2565



Photo 34 from west: Tree 2574



Photo 35 from west: Tree 2579
Also seedlings in background



Photo 36 from south-east: Tree 2585