

BUCHAN CAVES TREE REPLANTING PLAN

Commissioned by Parks Victoria



John Hawker, Horticulturist

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(Updated 17 April 2025, with GML Heritage)

ABBREVIATIONS:

HAP: Heritage Action Plan, 2004

cv. Cultivar

sp. Species

Issue No.	Description	Date	Issued to
1	Tree Removal and Replanting Plan DRAFT	31.08.2022	Paul Roser
2	Tree Removal and Replanting Plan	13.09.2023	Paul Roser
3	Tree Removal Plan (updated)	17.03.2025	Kim Wilson & Paul Roser Heritage Victoria
4	Tree Replanting Plan (updated)	17.04.2025	Kim Wilson & Paul Roser

John Hawker
7 Gertrude Street
Windsor 3181

Phone: 0438 510 522

Email: jhawker@bigpond.net.au

ABN: 82497031729

Cover Photograph:

View from Bridge 7 showing gum stumps 461, 457 & 458 (removed prior to fire) and fire damaged gum tree 464, and poplar 466, and removed fire damaged sheds 11 November 2021

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1.0 INTRODUCTION

1.1 Purpose

This report has been prepared to satisfy Condition 7 of Heritage Permit P34404. Permit P34404 is for:

Removal of hazardous trees following the 2019/2020 bushfire along with woody weeds in the reserve in accordance with the following documents, as endorsed by the Executive Director and forming part of this permit:

- *BUCHAN CAVES TREE REMOVAL HERITAGE PERMIT APPLICATION, REVIEW OF PROPOSED TREE REMOVAL AND IDENTIFICATION OF SPECIES ON 2005 SURVEY, PREPARED BY JOHN HAWKER, DECEMBER 2020.*

Condition 7 of P34404 is as follows:

Condition 7.

*Within 6 months of issue of this permit, a new permit application must be lodged with Heritage Victoria for the reconstruction of the historic landscape. This must address, but not be limited to: trees lost because of bushfire; natural tree losses; lost historic plantings; and inappropriate species planted since 2005. The works for reconstruction of the historic landscape to be applied for in that permit are expected to be informed by the Burra Charter conservation processes of **restoration, reconstruction, and adaption** together with **interpretation**. Article 13 of the Burra Charter, 'Co-existence of cultural values', is also a relevant consideration. The development of plans for this work should make reference to historic and recent documentation of the place, including but not limited to: the 1929 Hugh Linaker plan; photographic evidence; oral histories; tree collection surveys; the 2004 Heritage Action Plan; the Buchan Caves Significant Tree Assessment, 2020 (John Hawker); and any other relevant research. The reconstruction plan must also address the sourcing and propagation of nursery stock, including the establishment of a contract grower for propagation of species not readily available. Planning for the reconstruction plan must anticipate a period of up to 2 years for this landscape work to be implemented.*

1.2 Background

A significant landscape feature of the Buchan Caves Reserve is the established collection of exotic, native and indigenous trees. The Buchan Caves reserve planting has a significant history involving Hugh Linaker, a leading landscape designer from 1929 to 1938, followed by John Owens, Melbourne City Council in 1940 and Percy Trevaskis, Public Works Department in 1955, each prominent park administrators.

The cultural heritage significance of Buchan Caves Reserve (H1978) was recognized in February 2003 when the place was added to the Victorian Heritage Register for its aesthetic, scientific and historical significance. The mix of colourful exotic deciduous trees, conifers and evergreen trees set in a valley framed by eucalypt clad hillsides is a landscape of the highest aesthetic quality. The deciduous trees display a variety of autumn colours from yellow, orange to red and has become a major tourist attraction in April, May and June. The remnant gums, blackwood trees and many indigenous plants, some listed as rare and threatened in Victoria, are a significant landscape feature.

The exotic tree planting is reflective principally of the 1930s to 1950s period and later plantings of Japanese Maple, Pin Oak, Linden and Claret Ash trees in North Arm in the mid-1960s. Tree planting, removals, replanting and new planting has occurred on a small scale over the past 50 years.

This report was first commissioned by Parks Victoria in June 2021 in accordance with a Project Brief reproduced in **Appendix 1**, prepared by Parks Victoria and Gunaikurnai Land and Water Corporation (GLaWAC) as Joint Managers of Buchan Caves to record removed trees and develop a tree replanting plan consistent with the historic landscape values at Buchan Caves Reserve.

In September 2023 a second draft report was prepared to ensure updated information on the additional tree removal was included. The current report has been updated to provide information relating to tree replacement.

The 2004 Heritage Action Plan, 2018 Gunaikurnai and Victorian Government Joint Management Plan and the Statement of Significance included in the Victorian Heritage Register all specifically refer to the significance of the Linaker landscape and the need to protect and conserve this landscape.

In this regard, the 2004 Heritage Action Plan, 2005 Heritage Tree Plan and 2020 Significant Tree Assessment, along with the collection of historic photographs and the 1929 Linaker plan are important in determining the tree species and layout.

1.3 Heritage Permit P34404

In accordance with Recommendation 2 in the Significant Tree Assessment (November 2020) a Heritage Permit application was made. Approval for tree removal works was received from Heritage Victoria on 5 March 2021, subject to a number of Conditions being met. The full permit is reproduced in **Appendix 2**.

The Permit allows: *Removal of hazardous trees following the 2019/2020 bushfire along with woody weeds in the reserve in accordance with the following documents, as endorsed by the Executive Director and forming part of this permit:*

- **BUCHAN CAVES TREE REMOVAL HERITAGE PERMIT APPLICATION, REVIEW OF PROPOSED TREE REMOVAL AND IDENTIFICATION OF SPECIES ON 2005 SURVEY, PREPARED BY JOHN HAWKER, DECEMBER 2020.**

This report provides information to satisfy Condition 7.

A separate report and documentation has been submitted to Heritage Victoria to satisfy Condition 6.

Condition 7. *Within 6 months of issue of this permit, a new permit application must be lodged with Heritage Victoria for the reconstruction of the historic landscape. This must address, but not be limited to: trees lost because of bushfire; natural tree losses; lost historic plantings; and inappropriate species planted since 2005. The works for **reconstruction of the historic landscape** to be applied for in that permit are expected to be informed by the Burra Charter conservation processes of restoration, reconstruction, and adaption together with interpretation. Article 13 of the Burra Charter, 'Co-existence of cultural values', is also a relevant consideration.*

The development of plans for this work should make reference to historic and recent documentation of the place, including but not limited to: the 1929 Hugh Linaker plan; photographic evidence; oral histories; tree collection surveys; the 2004 Heritage Action Plan; the Buchan Caves Significant Tree Assessment, November 2020 (John Hawker); and any other relevant research.

The reconstruction plan must also address the sourcing and propagation of nursery stock, including the establishment of a contract grower for propagation of species not readily available. Planning for the reconstruction plan must anticipate a period of up to 2 years for this landscape work to be implemented.

2.0 TREE REMOVAL AND REPLACEMENT

The following tables accompany the plans showing the locations of tree replanting included at Appendix 3. The tables are presented in the following order: Sheet 1, Sheet 3, Sheet 2, Sheet 4, Sheet 5, Sheet 6 (which correlates with the site layout rather than numerical order).

2.1 Sheet 1 Individual tree data, status, recommendations, and priority for trees included on Sheet 1.

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
stump		<i>Populus alba</i> 'Pyramidalis'	Fastigate White Poplar		Removed and <i>P. balsamifera</i> planted c2010
1		<i>Populus x canadensis</i>	Canadian Poplar	Medium	Remove deadwood and hanging branches
2		<i>Populus x canadensis</i>	Canadian Poplar	Urgent	Remove Poplar, extensive basal trunk decay, treat soil erosion
3		<i>Populus x canadensis</i>	Canadian Poplar	Medium	Removed 2003-4. <i>Sequoia sempervirens</i> planted c2010
4		<i>Platanus x acerifolia</i>	London Plane	Low	Trim lower branches from hanging over road
5		<i>Populus x canadensis</i>	Canadian Poplar	Medium	Deadwood
6		<i>Platanus x acerifolia</i>	London Plane	Low	Deadwood
7		<i>Populus alba</i> 'Pyramidalis'	Fastigate White Poplar	Medium	Deadwood stand and thin out suckers to 4-5 trees, or remove. Former site of <i>Salix babylonica</i>
20	1	<i>Cedrus atlantica</i> f. <i>glauca</i>	Blue Cedar	Medium	Deadwood
19	2	<i>Platanus x acerifolia</i>	London Plane	Medium	Deadwood
18	3	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Medium	Deadwood. Not <i>F. excelsior</i>
16	4	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Branches removed 2019 over pump shed. Declining, poor structure, large wound. Monitor for safety. Future removal and replant.
15	5	<i>Populus x canadensis</i>	Canadian Poplar	Medium	Deadwood. Not <i>P. candicans</i>
14	6	<i>Quercus robur</i>	English Oak	Medium	Deadwood, large wound in upper trunk, Monitor

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
12	7	<i>Platanus acerifolia</i>	London Plane	Low	Deadwood
13	8	<i>Cupressus sempervirens</i>	Italian Cypress	Low	Deadwood, mulch
11	9	<i>Ulmus procera</i>	English Elm	Medium	Deadwood, remove trunk watershoots
28	10	<i>Acer palmatum</i>	Japanese Maple	Low	Deadwood and mulch
9	11	<i>Populus alba</i> 'Pyramidalis' (stump)	White Poplar	High	Removed 2017, lower stump. Replant Fastigate White Poplar 1.5m east, mulch. Also remove young <i>P. balsamifera</i> on road edge
10	12	<i>Quercus robur</i>	English Oak	Low	Deadwood, labelled <i>Q. cerris</i> , remove label
8	13	<i>Populus alba</i> 'Pyramidalis'	Fastigate White Poplar	Medium	Trim back from road, remove watershoots
	14	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Poor structure. Remove
	15	<i>Cupressus sempervirens</i>	Italian Cypress	Low	Deadwood
25	16	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Stump, tree fallen into creek after 2008. Remove stump, fill depression and replant Lombardy Poplar about 1m S
24	17	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Deadwood, remove broken branches and stubs, Monitor tree. Note large conifer stump c5m NE, not surveyed. Remove Ash in stump.
23	18	<i>Platanus acerifolia</i>	London Plane	Low	Deadwood, treat soil compaction and mulch
22	19	<i>Populus deltoides</i>	Cottonwood	Medium	Deadwood, treat soil compaction and mulch. NT Significant Tree
21	20	<i>Populus deltoides</i>	Cottonwood	Medium	Deadwood
17	21	<i>Casuarina cunninghamiana</i>	River She-oak	Medium	Deadwood, NT Significant Tree
	22	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Low	Remove trunk water shoots to 1m high, mulch
	23	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Low	Remove trunk water shoots to 1m high, mulch
26	24	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood, not <i>F. excelsior</i> (plant label)
	25	<i>Populus nigra</i> var. <i>italica</i> x8	Lombardy Poplar	High	Remove all Poplar suckers and Ash in Spring Creek
	26	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove from creek

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	27	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove from creek
	28	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove from creek
	29	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove from creek
44	30	<i>Fraxinus ornus</i>	Manna Ash	Low	Deadwood
47		<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Removed, stump 2005. Replant Monterey Cypress #47/2004
52	31	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Stump, Fire damaged. Remove and replant
50	32	<i>Hesperocyparis macrocarpa</i> 'Horizontalis Aurea'	Golden Monterey Cypress	High	Stump, Fire damaged. Remove and replant
49	33	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, Fire damaged. Remove and replant. Was very tall
60	34	<i>Hesperocyparis macrocarpa</i> 'Horizontalis Aurea'	Golden Monterey Cypress	Medium	Deadwood (N of Main Dve)
65	35	<i>Acer palmatum</i>	Japanese Maple	Low	Deadwood, mulch
61	36	<i>Populus x canadensis</i>	Canadian Poplar	High	Remove from creek, Not P. alba. Ansaldi report Jan 2024 - Remove
63	37	<i>Populus x canadensis</i>	Canadian Poplar	High	Remove from creek, Not P. alba
62	38	<i>Populus x canadensis</i>	Canadian Poplar	High	Remove from creek, Not P. alba
67	39	<i>Acer palmatum</i>	Japanese Maple	Low	Deadwood, mulch. Outstanding autumn colour
64	40	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove from creek
76	41	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, Fire damaged. Many seedlings, Remove all except 1
73	42	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, Fire damaged. Many seedlings, Remove all except 1
69	43	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Deadwood, many dead branches on West side. Remove all cypress seedlings
71	44	<i>Cedrus deodara</i>	Himalayan Cedar	Medium	Minor fire damage. Remove all cedar seedlings, Deadwood, mulch

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
70	45	<i>Pinus canariensis</i>	Canary Island Pine	Medium	Deadwood, mulch. Low canopy fire damage
72	46	<i>Pinus nigra</i> subsp. <i>laricio</i>	Corsican Pine	High	Stump, Fire damaged, Replant (formerly <i>P. nigra</i> var. <i>corsicana</i>)
	47	see sheet 3			
77		<i>Sequoiadendron giganteum</i>	Giant Redwood	High	Dead and standing 12 Feb 25. Fire damaged. Remove and replant.
78		<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Fire damaged. Prune dead lower branches. Single trunk form
79		<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Fire damaged. Prune lower dead branches. Single trunk form [Sheet 3]
80	68	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11 [Sheet 3]. Plant <i>Cupressus torulosa</i>
75	651	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood. Remove cypress seedlings near bridge
74	652	<i>Hesperocyparis lusitanica</i>	Mexican Cypress	Medium	Deadwood. Remove all cypress seedlings
68	653	<i>Populus alba</i>	White Poplar	High	Removed c2010. Lower stump. Replant <i>P. alba</i> . Remove new replacement trees; <i>Fraxinus pennsylvanica</i> , <i>Quercus rubra</i> & <i>Ulmus parvifolia</i>
59	654	<i>Cupressus torulosa</i>	Bhutan Cypress	Low	Deadwood
66	655	<i>Pinus canariensis</i>	Canary Island Pine	Low	Deadwood, Not <i>P. ponderosa</i>
	656	<i>Magnolia x soulangeana</i>	Saucer Magnolia	Low	Formative prune, mulch
	657	<i>Magnolia</i> sp. ? <i>campbellii</i>		Low	Formative prune, mulch
	658	<i>Rhododendron</i> cv.		Low	Formative prune, mulch
	659	<i>Rhododendron</i> cv. (dwarf)		Low	Formative prune, mulch
	660	<i>Rhododendron</i> cv.		Low	Formative prune, mulch
	661	<i>Magnolia</i> sp. ? <i>campbellii</i>		Low	Formative prune, mulch
	662	<i>Rhododendron fragrantissima</i>		Low	Formative prune, mulch
	663	<i>Lagerstroemia indica</i>	Crepe Myrtle	Low	Formative prune, mulch
51	664	<i>Cupressus torulosa</i>	Bhutan Cypress	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
53	665	<i>Hesperocyparis macrocarpa</i> 'Lutea'	Golden Cypress	High	Stump, Fire damaged SE side. Remove and replant. Retain new Golden seedling. Propagate. Remove cypress seedlings
54	666	<i>Hesperocyparis macrocarpa</i> 'Lutea'	Golden Cypress	High	Stump, Fire damaged SE side. Remove and replant. Remove cypress seedlings
55	667	<i>Brachychiton populneus</i>	Kurrajong	High	Stump, Fire damaged, Remove and replant
57	668	<i>Cupressus torulosa</i>	Bhutan Cypress	High	Stump, Fire damaged, Remove and replant
56	669	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Stump, Fire damaged, Remove and replant
58	670	<i>Cupressus torulosa</i>	Bhutan Cypress	Medium	Deadwood, mulch
48	671	<i>Populus x canadensis</i>	Canadian Poplar	High	Stump, Fire damaged, Remove and replant
45	672	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Stump, Fire damaged, Remove and replant
29	673	<i>Grevillea robusta</i>	Silky Oak	Low	Deadwood
30	674	<i>Grevillea robusta</i>	Silky Oak	High	Tree Removed. Replant
31	675	<i>Grevillea robusta</i>	Silky Oak	Low	Deadwood
32	676	<i>Grevillea robusta</i>	Silky Oak	Low	Deadwood
34	677	<i>Schinus molle</i>	Pepper Tree	Low	Deadwood, x3 incl #33/2004 & #35/2004
36	678	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
37	679	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Canopy lopped. Monitor. Double leader. Future Removal
38	680	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, tree removed 2017. Replant
39	681	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	Low	Deadwood
40	682	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	Low	Deadwood
46	683	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump Removed. Plant Lombardy Poplar (present c1940) to avoid overcrowding
	684	No tree surveyed			
42	685	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
41	686	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
43	687	<i>Fraxinus ornus</i>	Manna Ash	Low	Deadwood
	688	<i>Acacia melanoxylon</i>	Blackwood		Removed
	689	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove row of 5 Ash from creek. Plant Blackwood
	690	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove row of 5 Ash from creek. Plant Blackwood
	691	<i>Acacia decurrens</i>	Early Black Wattle	High	Removed, weedy species
	692	stump			
	693	<i>Acacia decurrens</i>	Early Black Wattle	High	Removed, weedy species

Summary Table Sheet 1

Removed 2005 -2019	Removed 2020-2022	To be Removed	To be Replanted
	<i>Hazardous trees</i>	<i>Woody weeds and other unsuitable trees</i>	
11, 16	31, 32, 33	2/2004, 14, 16	11, 16, 47/2004
47/2004	41, 42, 43, 46	25 x8, 26, 27. 28, 29	31, 32, 33, 41, 42,
653	665, 666, 667, 668, 669	36, 37, 38	43, 46, 68, 77/2004,
674, 680, 683, 688	671, 672,	68, 77/2004 (dead)	653, 665, 666, 667,
691, 693		689, 690	668, 669, 671, 672, 674,
			680, 683, 688
			689, 690
10	14	22 (+7 suckers)	26

2.2 Sheet 3 Tree Removals (Sheet 2 follows 3):

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
79		<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Fire damaged. Prune lower dead branches. Single trunk form
83	47	<i>Pseudotsuga menziesii</i>	Douglas Fir	Low	Deadwood, mulch
81	48	<i>Hesperocyparis macrocarpa</i> 'Horizontalis Aurea'	Golden Monterey Cypress	High	Lopped for powerline clearance, Deadwood, remove stubs and broken branches. Future removal and replanting
88	49	<i>Cupressus sempervirens</i> (broad form)	Italian Cypress	Low	Deadwood, mulch. Significant form
94	50	<i>Populus x canadensis</i>	Canadian Poplar	Medium	Deadwood
95	51	<i>Populus x canadensis</i>	Canadian Poplar	Medium	Deadwood
90	52	<i>Cupressus torulosa</i>	Bhutan Cypress	Medium	Deadwood
97	53	<i>Platanus x acerifolia</i>	London Plane	Medium	Deadwood
101	54	<i>Tilia cordata</i>	Small-leaved Linden	Medium	Deadwood, mulch
103	55	<i>Populus alba</i>	White Poplar	Medium	Deadwood, shape canopy
102	56	<i>Acacia baileyana</i>	Cootamundra Wattle		Removed
104	57	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Low	Single trunk form, Deadwood, mulch
105	58	<i>Populus alba</i> [Sheet 4]	White Poplar	Medium	Deadwood
100	59	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Deadwood, mulch
	60	<i>Ulmus procera</i> [Sheet 4]	English Elm	High	Elm sucker, remove
99	61	<i>Ulmus procera</i>	English Elm	Medium	Deadwood, prune watershoots, Large tree
	62	<i>Ulmus procera</i> [Sheet 4]	English Elm	High	Elm sucker, remove
	63	<i>Ulmus procera</i>	English Elm	High	Elm sucker, remove
	64	<i>Ulmus procera</i>	English Elm	High	Elm sucker, remove
	65	<i>Ulmus procera</i>	English Elm	High	Elm sucker, remove
	66	<i>Ulmus procera</i>	English Elm	High	Elm sucker, remove
93	67	<i>Prunus cerasifera</i>	Cherry Plum	High	Weedy species. Remove

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
80	68	<i>Catalpa bignonioides</i> [Sheet 1]	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	69	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	70	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	71	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	72	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	73	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	74	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	75	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	76	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	77	<i>Catalpa bignonioides</i>	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
80	78	<i>Catalpa bignonioides</i> [Sheet 4]	Indian Bean Tree	Medium	Tree in poor condition, Remove row x11
	79	<i>Malus sp.</i>		High	Remove
	80	<i>Acer plamatum</i>	Japanese Maple	Low	Formative prune, deadwood
	81	<i>Malus sp.</i>		High	Remove
	82	<i>Acer plamatum</i>	Japanese Maple	Low	Formative prune, deadwood
	83	<i>Acer plamatum</i>	Japanese Maple	Low	Formative prune, deadwood
	84	<i>Salix x viminalis</i>	Basket Willow	High	Weedy species. Remove
	85	<i>Eucalyptus botryoides</i>	Southern Mahogany	Medium	Deadwood
	86	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove
	87	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Low	Deadwood
118		<i>Pinus canariensis</i>	Canary Island Pine	Low	Deadwood
	88	<i>Acacia melanoxylon</i>	Blackwood	Low	Dead stump. Remove and replant
	89	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove row of 5 Fraxinus from creek [& 694]
	90	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove row of 5 Fraxinus from creek

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	91+	See Sheet 4			
120	96	<i>Ulmus procera</i>	English Elm	Low	Elm sucker, Remove
120	97	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	98	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	99	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	100	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	101	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	102	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	103	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	104	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	105	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	106	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	107	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	108	<i>Ulmus procera</i>	English Elm	Low	Deadwood
120	109	<i>Ulmus procera</i>	English Elm	Low	Deadwood
112	110	<i>Acacia melanoxylon</i>	Blackwood	Medium	Removed, Stump, cut to ground level
111	111	<i>Quercus glauca</i>	Japanese Blue Oak	Medium	Deadwood, lightly lift and shape canopy, remove suckers. mulch. Rare and significant
108	112	<i>Aesculus hippocastanum</i>	Horse Chestnut	Low	Deadwood, mulch
109		<i>Cupressus cashmeriana</i>	Kashmir Cypress	Low	Deadwood, mulch
	113 +	Sheet 4			
145	640	<i>Populus x canadensis</i>	Canadian Poplar	Low	Deadwood
89	642	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Low	Deadwood, remove trunk water shoots to 1m high
84	643	<i>Pseudotsuga menziesii</i>	Douglas Fir	Low	Deadwood, mulch
82	644	<i>Pseudotsuga menziesii</i>	Douglas Fir	Low	Deadwood, mulch

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	645	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Stump, Fire Damaged, Removed 2023 (Homewood report). Lower stump and Replant 1m west
	646	No Tree			
87	647	<i>Quercus canariensis</i>	Algerian Oak	Medium	Deadwood
85	648	<i>Populus deltoides</i>	Cottonwood	Medium	Deadwood
91	649	<i>Populus alba</i>	White Poplar	High	Removed, lower/remove stump and replant White Poplar. Remove poor Golden Robinia sapling (leaning)
92	650	<i>Pinus halepensis</i>	Aleppo Pine	Medium	Deadwood, in decline, protect surface roots, mulch. Very large. Monitor
86	695	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Low	Deadwood, single trunk form. Not C. torulosa. Remove Blackwood on N side
	696	<i>Acer palmatum</i>	Japanese Maple	Low	Deadwood
127	120	<i>Populus x canadensis</i>	Canadian Poplar	Low	Deadwood
125	121	<i>Populus x canadensis</i>	Canadian Poplar	Medium	Removed 2013, stump. Replant Pxc. Platanus 'Digitata' planted 2m west
124	122	<i>Populus alba</i>	White Poplar	Medium	Removed 2013, stump. Replant Pxc. Cedrus deodara planted
122	123	<i>Quercus cerris</i>	Turkey Oak	Low	Deadwood, stabilize creek edge
123	124	<i>Populus x canadensis</i> 'Aurea'	Golden Poplar	Low	Deadwood
	125	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, on creek edge
	126	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, on creek edge
	127	<i>Populus x canadensis</i> 'Aurea'	Canadian Poplar	Low	Deadwood
	128	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, on creek edge
	129	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove. Hanging branches, poor structure
	130	<i>Populus x canadensis</i> 'Aurea'	Golden Poplar	High	Fell in 2023, now removed. Leaning into Ash #129. Replant Golden Poplar
126	131	<i>Populus x canadensis</i>	Canadian Poplar	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
147	132	<i>Populus x canadensis</i> 'Aurea'	Golden Poplar	Medium	Removed 2013. Replant Golden Poplar
146	133	<i>Populus x canadensis</i>	Canadian Poplar	Medium	Removed 2013. Replant Canadian Poplar
	134 - 144	See Sheet 4			
128	stump	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Low	Removed late 2004 and replanted 2007, lift crown to 1.5m and mulch
139	145	<i>Populus deltoides</i>	Cottonwood	High	Removed 2015, lower stump, <i>Platanus x acerifolia</i> and <i>Populus balsamifera</i> planted. Replant <i>P. deltoides</i>
	146	<i>Ulmus procera</i>	English Elm		Removed
141	147	<i>Populus alba</i>	White Poplar	High	Removed 2015. Not <i>P. deltoides</i> . Replant White Poplar
140	148	<i>Populus x canadensis</i> 'Aurea'	Golden Poplar	Low	Deadwood
143	149	<i>Chamaecyparis lawsoniana</i>	Lawson's Cypress	Low	Deadwood, mulch
144	150	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
142	151	<i>Populus x canadensis</i> 'Aurea'	Golden Poplar	Low	Deadwood
148	152	<i>Populus x canadensis</i> 'Aurea'	Golden Poplar	Low	Deadwood
150	153	<i>Populus x canadensis</i> 'Aurea'	Golden Poplar	Low	Deadwood
151	154	<i>Populus x canadensis</i> 'Aurea'	Golden Poplar	Low	Deadwood
153	155	<i>Betula pendula</i>	Silver Birch	Low	Deadwood, mulch
244	156	<i>Betula pendula</i>	Silver Birch	Low	Deadwood, mulch
244	157	<i>Betula pendula</i>	Silver Birch	Low	Deadwood, mulch
244	158	<i>Betula pendula</i>	Silver Birch	Low	Deadwood, mulch
244	159	<i>Betula pendula</i>	Silver Birch	Low	Deadwood, mulch
244	160	<i>Betula pendula</i>	Silver Birch	High	Removed. Plant <i>Betula pendula</i>
	161	<i>Quercus robur</i>	English Oak	High	Removed. Plant <i>Betula pendula</i>
241		<i>Fagus sylvatica</i>	Common Beech	Medium	Formative prune, mulch
242	162	<i>Brachychiton populneus</i>	Kurrajong	Medium	Deadwood, monitor Yale cables

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	163	<i>Ulmus x hollandica</i>	Dutch Elm	Low	Formative prune, mulch
235	164	<i>Fraxinus ?pennsylvanica</i>	Green Ash	Low	Formative prune, mulch
234	165	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
232	166	<i>Ulmus x hollandica</i>	Dutch Elm	Low	Deadwood, monitor cables
228	167	<i>Ulmus glabra</i> 'Lutescens'	Golden Elm	Low	Deadwood, monitor cables
231		<i>Picea pungens</i> f. <i>glauca</i>	Blue Spruce	Low	Mulch
229	168	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Removed. Replaced with <i>Acer rubrum</i> 'Autumn Red' c2015
149	169	<i>Fraxinus excelsior</i>	English Ash	Medium	Deadwood, mulch
238	170	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
239	171	<i>Betula pendula</i>	Silver Birch	Low	Deadwood, mulch
240	172	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Deadwood, mulch
243	173	<i>Acer negundo</i>	Box Elder	Medium	Deadwood and shape crown, monitor cables
237	174	<i>Acer negundo</i>	Box Elder	Medium	Deadwood and shape crown, monitor cables
	175	<i>Koelreuteria paniculata</i>	Golden Rain Tree	Low	Deadwood, mulch
255	176	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Low	Deadwood, prune low watershoots to 1m
	177	<i>Koelreuteria paniculata</i>	Golden Rain Tree	High	Stump, plant <i>Acer palmatum</i> , mulch
250	178	<i>Paulownia tomentosa</i>	Princess Tree	Medium	Deadwood and shape canopy, mulch
251	179	<i>Picea pungens</i> f. <i>glauca</i>	Blue Spruce	Low	Mulch
249	180	<i>Acer palmatum</i>	Japanese Maple	High	Stump, removed 2021. Replant
247	181	<i>Cephalotaxus harringtonia</i> var. <i>drupacea</i>	Japanese Plum Yew	Medium	Deadwood, mulch. Rare and Significant
248		<i>Magnolia x soulangeana</i>	Saucer Magnolia	Low	Formative prune, mulch (2004 <i>Forsythia viridissima</i>)
245		<i>Chaenomeles speciosa</i>	Flowering Quince	Low	Deadwood, mulch
246	182	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Deadwood, mulch
252	183	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
251	184	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Deadwood, mulch

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	185	<i>Rhododendron</i> cv.	Rhododendron	Low	Deadwood, shape crown, mulch
256	186	<i>Rhododendron</i> cv.	Rhododendron	Low	Deadwood, shape crown, mulch
253	187	<i>Picea pungens</i> f. <i>glauca</i>	Blue Spruce	Low	Mulch
	188	<i>Nerium oleander</i> cv.	Oleander	Low	Deadwood, shape crown, mulch. Remove new Spotted Gum to the east
	189	see Sheet 4			
	209	<i>Gleditsia tricanthos</i> 'Shademaster'	Shademaster Honey Locust	High	Poor structure and species selection. Remove. Plant <i>Acer palmatum</i>
269	210	<i>Ginkgo biloba</i> [see Sheet 4]	Maidenhair Tree	Low	Formative pruning, mulch
270	211	<i>Sequoia sempervirens</i>	Coast Redwood	Low	Deadwood, Large & Significant
273	212	<i>Quercus palustris</i>	Pin Oak	Low	Deadwood, thinout and shape canopy, mulch
272	213	<i>Cryptomeria japonica</i> 'Elegans'	Bronze Japanese Cedar	Low	Deadwood, mulch
271		<i>Rhododendron</i> cv. x2	Rhododendron	Medium	Fire damaged. Deadwood, shape crown, mulch
233	511	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
236	512	<i>Populus alba</i>	White Poplar	High	Removed and Liquidambar formosana replanted, remove. Remove Ulmus west side in poor condition. Replant White Poplar
	513	<i>Acacia melanoxylon</i>	Blackwood	High	Removed, Fire damaged, level ground
	514	<i>Acacia melanoxylon</i>	Blackwood	High	Removed, Fire damaged, level ground
	515	<i>Acacia melanoxylon</i>	Blackwood	High	Removed, Fire damaged, level ground. Replant <i>Populus alba</i> 'Pyramidalis'
	516	<i>Acacia melanoxylon</i>	Blackwood	High	Reduce stump, level ground, Fallen tree on ground, possibly <i>Chamaecyparis lawsoniana</i> . Replant <i>C. lawsoniana</i>

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	517	<i>Callitris oblonga</i>	Tasmanian Cypress-pine	High	Fire damaged 2020, 2005 <i>Callitris</i> partly alive, now lost. Replant <i>Callitris oblonga</i>
	518	<i>Fraxinus ornus</i>	Manna Ash	High	Fire damaged. Self seeded woody weed. Remove
227	519	<i>Tilia cordata</i>	Small-leaved Linden	Medium	Deadwood, mulch
226	520	<i>Pinus ponderosa</i>	Western Yellow Pine	Low	Deadwood, Significant tree
	521	<i>Cedrus atlantica</i>	Atlas Cedar	Medium	Deadwood, mulch
	522	<i>Pseudotsuga menziesii</i>	Douglas Fir	Low	Deadwood
223	523	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
	524	Tree (?Ash)			Removed
224	525	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Stump, Fire damaged,
225	526	<i>Tilia x europaea</i>	Linden	High	Stump, Fire damaged, replant Linden
222	527	<i>Tilia x europaea</i>	Linden	High	Stump, Fire damaged,
220	528	<i>Tilia x europaea</i>	Linden	High	Stump, Fire damaged,
221	529	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Fire damaged, Remove
219	530	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Stump, Replant
217	531	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Fire damaged, Remove
218	532	<i>Tilia x europaea</i>	Linden	Medium	Mulch
215	533	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Removed 2011, Stump,
216	534	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Fire damaged, Future removal
159	535	<i>Tilia x europaea</i>	Linden	High	Fire damaged. Remove, replant <i>Quercus Palustris</i>
157	536	<i>Tilia x europaea</i>	Linden	High	Fire damaged. Remove , replant Linden
158	537	<i>Acer palmatum</i>	Japanese Maple	High	Stump. Fire damaged.
	538	<i>Gleditsia tricanthos</i> 'Shademaster'	Shademaster Honey Locust	High	Fire damaged trunk. Poor species selection. Remove
156	539	<i>Juglans regia</i>	Walnut	Medium	Reported dead in 2004, regrown, 3 ?root suckers and I J. nigra stem (rootstock), Formative prune, mulch

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
155	540	<i>Juglans regia</i>	Walnut	Medium	Deadwood, shape crown, mulch
154	541	<i>Juglans regia</i>	Walnut	Medium	Deadwood, shape crown, mulch
153	542	<i>Betula pendula</i>	Silver Birch	High	Remove, poor condition
153	543	<i>Betula pendula</i>	Silver Birch	Medium	Formative prune, mulch
153	544	<i>Betula pendula</i>	Silver Birch	Medium	Remove, poor condition
153	545	<i>Betula pendula</i>	Silver Birch	Medium	Formative prune, mulch
	546	<i>Koelreuteria paniculata</i>	Golden Rain Tree	High	Dead. Remove
	547	<i>Chamaecyparis lawsoniana</i>	Lawson's Cypress	Medium	Mulch
152	548	<i>Platanus ? orientalis</i>	Oriental Plane	Medium	Major lean to east, deadwood and shape crown, mulch. Check identification, ?significant/rare
	549	<i>Betula pendula</i>	Silver Birch	Medium	Remove, poor condition
	550	<i>Chamaecyparis lawsoniana</i>	Lawson's Cypress	Medium	Mulch
	551	<i>Gleditsia tricanthos</i> 'Shademaster'	Shademaster Honey Locust	High	Removed
	552	<i>Cedrus atlantica</i>	Atlas Cedar	High	Fire damaged, Dead. Remove and replant Atlas Cedar
	553	<i>Pinus halepensis</i>	Aleppo Pine	High	Fire damaged, poor condition / Remove
	554	<i>Pinus halepensis</i>	Aleppo Pine	High	Fire damaged, poor condition / Remove
	555	<i>Acacia melanoxylon</i>	Blackwood	High	Fire damaged. Remove
	556	<i>Pinus halepensis</i>	Aleppo Pine	High	Fire damaged, poor condition / Remove
159	557	<i>Tilia x europaea</i>	Linden	High	Stump, Fire damaged
	558	<i>Pinus halepensis</i>	Aleppo Pine	High	Fire damaged, poor condition / Remove
161	559	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Stump, Fire damaged
	560	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Fire damaged, Remove
	561	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Dead, Remove
162	562	<i>Tilia x europaea</i>	Linden	Medium	Fire damaged, Monitor
163	563	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	564	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Poor condition, Remove
165	565	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Dead, Remove
164	566	<i>Acacia melanoxylon</i>	Blackwood		Stump
166	567	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood
	568	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Poor condition, Remove
	569	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Stump, Remove
167	570	<i>Tilia x europaea</i>	Linden	Medium	Deadwood, mulch
168	571	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood
	572	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Poor condition, Remove
170	573	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Poor condition, Remove
169	574	<i>Tilia x europaea</i>	Linden	Medium	Deadwood, mulch
171	575	<i>Tilia x europaea</i>	Linden	Medium	Deadwood, mulch
	576	<i>Acacia melanoxylon</i>	Blackwood		Stump
	577	<i>Acacia melanoxylon</i>	Blackwood		Stump
	578	<i>Picea pungens</i> f. <i>glauca</i>	Blue Spruce	Low	Formative prune, mulch
	579	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Low	Formative prune
207	580	<i>Eucalyptus rubra</i>	Candlebark	Low	Deadwood, large significant tree
	581	<i>Brachychiton populneus</i>	Kurrajong	High	Remove steel post, Deadwood
	582	<i>Eucalyptus melliodora</i>	Yellow Box	Low	Formative prune
	583	<i>Eucalyptus melliodora</i>	Yellow Box	High	Dead Feb 2025. Remove
208	584	<i>Thuja plicata</i>	Western Red Cedar	Low	Young tree replaced a <i>Brachychiton populneus</i> . Mulch
	585	<i>tree removed</i>			
209	586	<i>Tilia x europaea</i>	Linden	Medium	Deadwood, mulch
210	587	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood
211	588	<i>Tilia x europaea</i>	Linden	Medium	Deadwood, mulch
212	589	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
213	590	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Medium	Deadwood
214	591	<i>Brachychiton populneus</i>	Kurrajong	Medium	Mulch
	592-6	<i>Sheet 2</i>			
	597	<i>Fraxinus excelsior</i> 'Aurea'	Golden Ash	Medium	Mulch

Summary Table Sheet 3

Removed 2005 -2019	Removed 2020-2022	To be Removed	To be Replanted	Trees in North Arm
	<i>Hazardous trees</i>	<i>Woody weeds and other unsuitable trees</i>		
88	180	60, 62, 63, 64, 65, 66	88, 110, 121, 122	
110	513, 514, 515, 516	67, 69, 70, 71, 72, 73,	132, 133, 145, 147, 160, 161	
121, 122,	526, 527*, 528*, 531*,	74, 75, 76, 77, 79, 81,	180, 512, 515, 516,	527*, 528*, 531*,
132, 133, 145, 147, 168	534, 535, 536, 537, 555*	84, 86, 88, 89, 90	517, 526, 535, 536	555*
512, 517, , 533*,	552, 556*, 557*, 558*, 560*,	125, 126, 128, 129,	552, 645, 649	533*, 556*, 557*, 558*, 560*,
566, 569*, 576*, 577*, 585*	561*, 565*, 568*	130, 180, 209		569*, 576*, 577*, 585*
591, 597		518, 525, 529, 538		561*, 565*, 568*
649		549, 542, 553,		
	Removed 2023-4	554, 556, 564, 565		
	160, 161, 551, 645	568, 572, 573, 645,		
		579		
20	26	46	21	16

2.3 Sheet 2 Tree Removals

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
173	592	<i>Melaleuca styphelioides</i>	Prickly Paperbark	High	Double trunk tree, fire damaged, poor structure. Remove
173	593	<i>Melaleuca styphelioides</i>	Prickly Paperbark	High	Double trunk tree, fire damaged, poor structure. Remove
172	594	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Fire damaged, Fire trunk scar, Monitor
	595	<i>Quercus rubra</i>	Northern Red Oak	Low	Formative prune, mulch
	596	Removed			
	598	<i>Eucalyptus ?melliodora</i>		High	Dead. Remove
	599	<i>Eucalyptus ?melliodora</i>	Yellow Box	Medium	Mulch
	600	<i>Eucalyptus ?melliodora</i>		High	Dead. Remove
	601	<i>Allocasuarina littoralis</i>	Black She-oak	Medium	Formative prune
206	602	<i>Brachychiton populneus</i>	Kurrajong	High	Crown lopped for powerline clearance. Remove tree
204	603	<i>Fraxinus 'Raywood'</i>	Claret Ash	High	Stump
	604	<i>Tilia x europaea</i>	Linden	High	Stump
	605	<i>Fraxinus 'Raywood'</i>	Claret Ash	High	Stump
176	606	<i>Fraxinus 'Raywood'</i>	Claret Ash		Stump. Removed for shelter [No survey numbers # 174/2004 & 175/2004]
	607	<i>Bursaria spinosa</i>	Sweet Bursaria	High	Dead, large remnant, Salix sp. planted, remove. Replant Bursaria
205	608	<i>Eucalyptus viminalis</i>	Manna Gum	High	Large tree fire damaged, Dead, Lopped to c10m for habitat tree. Monitor
186	609	<i>Tilia x europaea</i>	Linden	Medium	Deadwood, mulch [# at end]
187		<i>Eucalyptus sp. ?rubida</i>		Medium	Removed. Replant
188		<i>Acacia mearnsii</i>	Black Wattle	Medium	Removed. Replant
189		<i>Eucalyptus sp. ?rubida</i>		Medium	Removed. Replant

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
190	610	<i>Eucalyptus rubida</i>	Candlebark	High	Stump, Replant
191	611	<i>Tilia x europaea</i>	Linden	High	Stump
192	612	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
193	613	<i>Tilia x europaea</i>	Linden	High	Stump, Fire damaged.
194	614	<i>Tilia cordata</i>	Small-leaved Linden	Medium	Deadwood, mulch
195	615	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
196	616	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
197	617	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
198	618	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
	619	<i>Fraxinus excelsior</i> 'Aurea'	Golden Ash	High	Stump
199	620	<i>Liquidambar styraciflua</i>	Liquidamber	High	Stump
200	621	<i>Tilia x europaea</i>	Linden	Medium	Stump
201	622	<i>Liquidambar styraciflua</i>	Liquidamber	High	Stump
177	623	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	624	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
	625	<i>Fraxinus excelsior</i> 'Aurea'	Golden Ash	Low	Deadwood, mulch
178	626	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
179	627	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
180	628	<i>Tilia cordata</i>	Small-leaved Linden	Medium	Deadwood, mulch
181	629	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
182	630	<i>Tilia cordata</i>	Small-leaved Linden	Medium	Deadwood, mulch
183	631	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Medium	Stump.
184	632	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	633	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Medium	Fire damaged. Future removal
185	634	<i>Eucalyptus rubida</i>	Candlebark	High	Stump, Replant

Summary Table Sheet 2

Removed 2005 -2019	Removed 2020-2022	To be Removed	To be Replanted	Trees in North Arm
	<i>Hazardous trees</i>	<i>Woody weeds and other unsuitable trees</i>		
606	603*, 607, 608, 610, 611*,	592, 593, 602, 633	607, 610,	603*, 611*,
	613*, 619*, 620*, 621*,		634	613*, 619*, 620*, 621*,
	622*, 631*, 634			622*, 631*
1	12	4	3	8

2.4 Sheet 4 Tree Removals

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
113	635	<i>Catalpa bignonioides</i>	Indian Bean Tree	Low	Deadwood, mulch
119	636	<i>Cupressus torulosa</i>	Bhutan Cypress	Low	Deadwood, mulch
121	697	<i>Cupressus torulosa</i>	Bhutan Cypress	Low	Deadwood, mulch
117	637	<i>Quercus robur</i>	English Oak	Medium	Coppiced 2023 for Bridge 2 works. Replant English Oak
117	638	<i>no tree</i>			Now within Bridge 2 footprint
117	639	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Lift crown. Remove all ash seedlings
145	640	<i>Populus x canadensis</i> [Sheet 3]	Canadian Poplar	Low	Deadwood
	641	<i>Hesperocyparis lusitanica</i>	Mexican Cypress	Low	Deadwood. Tree on south hillside. Remove all ash seedlings
99	60	<i>Ulmus procera</i>	English Elm	Medium	Elm sucker, remove
99	62	<i>Ulmus procera</i>	English Elm	Medium	Elm sucker, remove
105	58	<i>Populus alba</i>	White Poplar	Medium	Deadwood
80	78	<i>Catalpa bignonioides</i>	Indian Bean Tree	High	Tree in poor condition, Remove row x11
114	91	<i>Liquidambar styraciflua</i>	Liquidamber		Removed
116	92	<i>Populus x canadensis</i>	Canadian Poplar	High	Removed 2023 for Bridge 2 works. Replant
115	93	<i>Populus alba</i>	White Poplar	High	Removed 2023 for Bridge 2 works. Replant on lawn to the East
	94	<i>Eucalyptus botryoides</i>	Southern Mahogany	Medium	Deadwood
106	95	<i>Populus balsamifera</i>	Balsam Poplar	Low	Deadwood, remove trunk growth
	113	<i>Fraxinus ornus</i>	Manna Ash	Low	Deadwood
	114	<i>Eucalyptus botryoides</i>	Southern Mahogany	Medium	Deadwood
	115	<i>Fraxinus ornus</i>	Manna Ash	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	116	<i>Hesperocyparis lusitanica</i>	Mexican Cypress	Low	Deadwood
	117	<i>Hesperocyparis lusitanica</i>	Mexican Cypress	Low	Deadwood
	118	<i>Hesperocyparis lusitanica</i>	Mexican Cypress	Low	Deadwood
	119	<i>Hesperocyparis lusitanica</i>	Mexican Cypress	Low	Deadwood, remove all nearby cypress and ash seedlings
	134	<i>Eucalyptus melliodora</i>	Yellow Box	High	Stump. Storm damage Aug 2023. Replant
138	135	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Stump. Storm damage Aug 2023. Replant, Significant with #176 pair
261	136	<i>Eucalyptus tereticornis</i>	Forest Red Gum	Low	Deadwood
260	137	<i>Hesperocyparis macrocarpa</i> 'Horizontalis'	Monterey Cypress	High	Stump. Storm damaged and removed c2018. Replant Monterey Cypress. Remove young cypress beside creek. Source for cuttings.
262	138	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
263	stump	<i>Populus alba</i>	White Poplar	High	Removed late 2004. Replant P. alba
264	139	<i>Fraxinus excelsior</i>	English Ash		Removed for new office
266	140	<i>Acacia pravissima</i>	Ovens Wattle		Removed 2017 for new office, #267/2004 stump 2.5m west
267	stump	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar		Removed late 2004. Now within new office site
265	141	<i>Populus alba</i>	White Poplar	Low	Leaning over creek. Deadwood. Remove young P. balsamifera near building
277	142	<i>Acer negundo</i>	Box Alder	High	Poor condition & structure. Remove
	143	<i>Acacia melanoxylon</i>	Blackwood	High	Dead. Remove and replant Blackwood
278	144	<i>Fraxinus ornus</i>	Manna Ash	High	Poor condition. Remove
	698	<i>Eucalyptus melliodora</i>	Yellow Box	Low	Mulch
	699	<i>Pistacia chinensis</i>	Chinese Pistachio	Low	Mulch
131	189	<i>Ulmus procera</i>	English Elm	Medium	Deadwood, mulch. Large & significant

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
132	190	<i>Cedrus deodara</i>	Himalayan Cedar	Low	Deadwood, mulch
133	191	<i>Eucalyptus melliodora</i>	Yellow Box	Low	Deadwood, Large & significant
	192	<i>Eucalyptus melliodora</i>	Yellow Box	Low	Deadwood
	193	<i>Acacia melanoxylon</i>	Blackwood	High	Stump, lower to ground level
	194	<i>Acacia melanoxylon</i>	Blackwood	High	Remove
136	195	<i>Cupressus lusitanica</i> var. <i>benthamii</i>	Bentham's Cypress	Medium	Deadwood, shape canopy, mulch. Rare
	196	<i>Acacia melanoxylon</i>	Blackwood	High	Remove
137	197	<i>Hesperocyparis lusitanica</i>	Mexican Cypress	Low	Deadwood
	198	<i>Acacia melanoxylon</i>	Blackwood	High	Removed, Stump
	199	<i>Acer palmatum</i>	Japanese Maple	Low	Formative prune, mulch
	200	<i>Quercus rubra</i>	Northern Red Oak	High	Stump. Removed
	201	<i>Eucalyptus</i> sp.	Gum	High	Seedling, remove to avoid overcrowding
129	202	<i>Populus alba</i>	White Poplar	High	Felled 2024, trunk lying on ground. Many suckers. Remove suckers, mulch. Replant 1m south
	203	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Formative prune, mulch
130	204	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Trunk wound. Deadwood, mulch
276	205	<i>Eucalypts melliodora</i>	Yellow Box	High	Removed 2012. Former site of a Cypress. Replant a Mexican Cypress (smaller tree than a Monterey Cypress)
268	206	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Removed 2013. Replant <i>F. excelsior</i>
	207	<i>Gleditsia tricanthos</i> 'Shademaster'	Shademaster Honey Locust	High	Poor structure and species selection. Remove
	208	<i>Ulmus x hollandica</i> 'Vegeta'	Huntingdon Elm	Medium	Formative prune, mulch
	209	<i>Gleditsia tricanthos</i> 'Shademaster' [Sheet 3]		High	Poor structure and species selection. Remove
269	210	<i>Ginkgo biloba</i>	Maidenhair Tree	Medium	

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
270	211	<i>Sequoia sempervirens</i> [Sheet3]			
273	212	<i>Quercus palustris</i> [Sheet3]			
272	213	<i>Cryptomeria japonica</i> 'Elegans' [Sheet3]			
273	214	<i>Quercus palustris</i>	Pin Oak	Medium	Deadwood, mulch
274	215	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood, mulch
	216	<i>Fraxinus ornus</i>	Manna Ash	Medium	Deadwood, mulch
279	217	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
280	218	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
282	219	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
281	220	<i>Acacia melanoxylon</i>	Blackwood	High	Stump. Removed 2018. Plant Pin Oak
283	221	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood, mulch
284	222	<i>Quercus coccinea</i>	Scarlet Oak	Medium	Formative prune, thin out canopy, mulch
286	223	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
	224	<i>Quercus coccinea</i>	Scarlet Oak		Removed 2024. Fire damaged
288	225	<i>Sequoiadendron giganteum</i>	Giant Redwood	Low	Dead leading shoot. Formative prune and mulch
295	226	<i>Fraxinus excelsior</i> 'Aurea' [sheet 5]	Golden Ash	Low	Deadwood, mulch
291	233	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Medium	Minor fire damage. Deadwood, prune watershoots from trunk to 1.5m
285	234	<i>Eucalypts melliodora</i>	Yellow Box	Medium	Deadwood
294	235	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood, mulch
300	248	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Deadwood, shape canopy, mulch
293	249	<i>Tsuga canadensis</i>	Eastern Hemlock	Low	Formative prune, mulch. Rare & Significant

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
292	250	<i>Fraxinus ornus</i>	Manna Ash	Low	Deadwood, shape canopy, mulch
	251	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Removal recommended
	252	<i>Acacia melanoxylon</i>	Blackwood	High	Stump. Replant
	253	<i>Fraxinus ornus</i>	Manna Ash	Low	Deadwood
	254	<i>Acacia melanoxylon</i>	Blackwood	High	Stump. Replant
	255	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Removal recommended
	256	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Removal recommended
	257	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Stump, Felled 2023. Prevent regrowth
	258	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Removal recommended
	259	<i>Eucalyptus polyanthemos</i>	Red Box	Low	Deadwood. Remnant tree, significant, unusual riparian location
	260	<i>Melaleuca linariifolia</i>	Flax-leaved Paperbark	Low	Formative prune
	261	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, weedy tree growing creek edge. Plant Blackwood
	262	<i>Melaleuca linariifolia</i>	Flax-leaved Paperbark	Low	Formative prune
	263	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, weedy tree N creek edge. Plant Blackwood
	264	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, weedy tree N creek edge. Plant Blackwood
	265	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, weedy tree N creek edge. Plant Blackwood
	266	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, weedy tree S creek edge. Plant Blackwood
	267	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, weedy tree S creek edge. Plant Blackwood
	268	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, weedy tree S creek edge. Plant Blackwood
	277	<i>Sequoia sempervirens</i>	Coast Redwood	Medium	Double leader, remove 1 trunk at base, deadwood, mulch
	278	<i>Sequoia sempervirens</i>	Coast Redwood	Medium	Deadwood, mulch
	279	<i>Sequoia sempervirens</i>	Coast Redwood	Medium	Deadwood, mulch
	308	<i>Fraxinus</i> 'Raywood' [see sheet 5]	Claret Ash		
	309	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, weedy species. Plant Blackwood
	310	<i>Eucalyptus melliodora</i>	Yellow Box	Medium	Dead, create habitat tree. Plant new Yellow Box 3m N

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	311	<i>Populus nigra var. italica</i>	Lombardy Poplar	High	Removal Recommended
	312	<i>Populus nigra var. italica</i>	Lombardy Poplar	High	Removal Recommended
	313	<i>no number</i>			
	314	<i>Fraxinus ornus</i>	Manna Ash	Medium	Poor structure. Remove
	315	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	316	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood

Summary Table Sheet 4

Removed 2005 -2019	Removed 2020-2022	To be Removed	To be Replanted
	<i>Hazardous trees</i>	<i>Woody weeds and other unsuitable trees</i>	
637, 639	91	60, 62, 78	637, 92, 93
137, 263/2004		142, 143, 194, 196,	263/2004
[139, 140, 267/2004, Three Office trees]		198, 207, 220, 251, 253	137,
		255, 256, 258,	143, 203, 205, 206
205, 220		261, 263, 264, 265,	
310		266, 267	310
		268, 309, 311, 312, 314, 316	202
	Removed 2023-4 92, 93, 134, 135, 202	257 (stump 2024)	134, 135
7 [plus 3 for office]	6	28	13

2.5 Sheet 5 Tree Removals

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
295	226	<i>Fraxinus excelsior</i> 'Aurea'	Golden Ash	Low	Deadwood, mulch
299	227	<i>Quercus palustris</i>	Pin Oak	Low	Formative prune, mulch (double leader has been removed)
298	228	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Medium	Deadwood, prune watershoots from trunk to 1m
305	229	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood, mulch
297	230	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood, mulch
296	231	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
	232	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Crown top lopped. Deadwood and shape canopy (crown renewal)
303	236	<i>Pinus radiata</i>	Monterey Pine		Tree removed.
304	237	<i>Liquidambar styraciflua</i>	Liquidamber	Medium	Double leader, Monitor, consider cabling
305	238	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood, mulch
306	239	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Removed. Replant
307	240	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood, mulch
308	241	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood, mulch
309	242	<i>Quercus coccinea</i>	Scarlet Oak	Medium	Formative prune, deadwood, mulch. Not Q.rubra
310	243	<i>Casuarina cunninghamiana</i>	River Sheoak	Low	Deadwood, mulch. Monitor cables. Large, NT significant tree
302	244	<i>Ulmus glabra</i> 'Lutescens'	Golden Elm	Medium	Deadwood, shape crown, reduce excessive canopy weight. Not U. x hollandica
311	245	<i>Fraxinus ornus</i>	Manna Ash	Low	Deadwood
	246	<i>Fraxinus</i> 'Raywood'	Claret Ash		Removed. Acer buergerianum replanted [x2 trees east]
301	247	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	269	<i>Sequoia sempervirens</i>	Coast Redwood	Medium	Fire damage to lower braches, deadwood, Monitor. Outstanding tree
	270	<i>Eucalyptus ?viminalis</i>	Manna Gum	Low	Stump. Fire damaged, now felled rather than a habitat tree
	271	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Poor structure, trunk stub, leaning north. Remove
	272	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Stump.
	273	<i>Eucalyptus ?viminalis</i>	Manna Gum	High	Stump. Replant
	274	<i>Acacia melanoxylon</i>	Blackwood	High	Stump. Replant
	275	<i>Fraxinus ornus</i>	Manna Ash	High	Stump. Fire damaged, Remove
	276	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Stump.
314	280	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood, tree removed with bolt is #320/2004 [284]
316	281	<i>Fraxinus excelsior</i> 'Aurea'	Golden Ash	Low	Removed. Platanus x acerifolia replanted
	282	stump		Low	3 Spotted gums and Golden Ash planted
319	283	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
320	284	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Removed. Plant Pin Oak
	285	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	700	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	704	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
332	286	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
337	287	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Medium	Deadwood, prune watershoots from trunk to 1m
338	288	<i>Fraxinus ornus</i>	Manna Ash	Low	Deadwood
	289	<i>Populus alba</i>	White Poplar	Medium	In decline, has trunk wound. Deadwood, canopy reduction. Monitor next 12 months. Possibly remove and replant c5 yrs
340	290	<i>Acer palmatum</i>	Japanese Maple	Low	Mulch and formative prune. Was Pittosporum tenuifolium

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	291	<i>Acacia melanoxylon</i>	Blackwood	Medium	Removed. Replanted Spotted Gum planted too close to road. Remove. Plant Canadian Poplar. Remove Ash seedling
331	292	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Low	Has not been removed. Deadwood, remove water shoots to 1m, important pair with #287
330	293	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Removed. Lopped in 2012, Remove and replant Pin Oak
	294	<i>Eucalyptus melliodora</i>	Yellow Box	Low	Deadwood
	295	<i>Cedrus deodara</i>	Himalayan Cedar	Low	Deadwood, mulch
	296	<i>Acacia melanoxylon</i>	Blackwood	High	Remove
322	297	<i>Eucalyptus rubida</i>	Candlebark	Low	Deadwood. Very large, significant tree
	298	<i>Fraxinus ornus</i>	Manna Ash	Low	Trunk wound. Deadwood. Mulch
	299	<i>Acacia melanoxylon</i>	Blackwood	High	Stump. Plant Lombardy Poplar
	300	<i>Eucalyptus rubida</i>	Candlebark	Low	Deadwood. Mulch
315	301	<i>Brachychiton populneus</i>	Kurrajong	Medium	Double leader, Monitor, remove if unsafe and replant
	302	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
313	303	<i>Eucalyptus viminalis</i>	Manna Gum	Medium	Dead , fallen tree, trunk lying on ground. Replant Manna Gum
	304	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, woody weed
	305	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Remove, woody weed
	306	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	307	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	308	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood
	711	<i>Acacia melanoxylon</i>	Blackwood	Medium	Deadwood [dead 18dec20]. Replant
	316	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	317	<i>Acacia melanoxylon</i>	Blackwood	Medium	Deadwood [stump 18dec20] Replant

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	318	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	319	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood [near Bridge 4]
	320	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	321	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	322	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	323	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	706	<i>Acacia melanoxylon</i>	Blackwood	Low	Remove. New Cedrus deodara planted S
	324	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
325	325	<i>Araucaria bidwillii</i>	Bunya Bunya Pine	Low	Deadwood
324	326	<i>Acer pseudoplatanus</i>	Sycamore	Low	Weedy species, consider future removal
	708	<i>Eucalyptus viminalis</i>	Manna Gum		Removed
	709	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Remove
	327	<i>Ulmus x hollandica</i>	Dutch Elm	Low	Deadwood, mulch
	328	<i>Acer negundo</i> 'Variegatum'	Variegated Box Elder	Low	Deadwood
318	329	<i>Fagus sylvatica</i>	Beech	Low	Deadwood, mulch
323	330	<i>Acer negundo</i> 'Variegatum'	Variegated Box Elder	Low	Deadwood
	331	<i>Casuarina cunninghamiana</i>	River Sheoak	High	Invasive suckering native. Remove and fill depression
	332	<i>Callistemon salignus</i>	Willow Bottlebush	Low	Deadwood [NSW & Qld]. Future removal. NSW & Qld species
	333	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	334	<i>Acacia melanoxylon</i>	Blackwood	Low	Stump
	335	<i>Callistemon salignus</i>	Willow Bottlebush	Low	Deadwood [NSW & Qld]. Future removal. NSW & Qld species
	336	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	701	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	702	<i>Eucalyptus viminalis</i>	Manna Gum	High	Stump, prevent regrowth. Remove large English Hawthorn in Spring Creek to the north
	703	<i>Eucalyptus viminalis</i>	Manna Gum	High	Stump . Leaning tree. Removed Aug 2023 Ansaldi report
	704				Removed
	705	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
	707	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	337	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	338	<i>Callistemon salignus</i>	Willow Bottlebush	Low	Deadwood NSW & Qld Remove Steel Post
328	339	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
	340	<i>Eucalyptus rubida</i>	Candlebark	Low	Deadwood
334	341	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	High	Stump
	342	<i>Eucalyptus botryoides</i>	Southern Mahogany	Medium	Poor structure, Removal recommended
346	343	<i>Fagus sylvatica</i>	Beech	Medium	Deadwood, formative prune, mulch
342	710	<i>Eucalyptus viminalis</i>	Manna Gum	Medium	Habitat tree. Monitor for safety, partially lopped. Large tree at edge car park
343	344	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood
344	345	<i>Eucalyptus botryoides</i>	Southern Mahogany	Medium	Deadwood, Monitor
345	346	<i>Betula pendula</i>	Silver Birch	High	Removed. Plant Lombardy Poplar, mulch
341	347	<i>Fraxinus</i> 'Raywood'	Claret Ash	Medium	Deadwood, mulch
339	348	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Medium	Remove competing vegetation, deadwood, mulch
	349	<i>Eucalyptus viminalis</i>	Manna Gum	High	Stump, Remove in Ansaldi report Jan 2024
	350	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
349	351	<i>Ulmus procera</i>	English Elm	Low	Deadwood, part of large elm stand west of road

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
349	352	<i>Ulmus procera</i>	English Elm	Low	Deadwood, part of large elm stand west of road
349	353	<i>Ulmus procera</i>	English Elm	Low	Deadwood, part of large elm stand west of road
349	354	<i>Ulmus procera</i>	English Elm	Low	Deadwood, part of large elm stand west of road
	355	<i>Salix x viminalis</i>	Basket Willow	High	Remove
	356	<i>Eucalyptus punctata</i>	Grey Gum	Low	Deadwood, Significant, rare
	357	<i>Eucalyptus rubida</i>	Candlebark	High	Fire damaged, removed, stump remains. Replant Yellow Box
	358	<i>Platanus x acerifolia</i>	London Plane	Low	Deadwood, mulch
349	359	<i>Ulmus procera</i>	English Elm	Low	Deadwood, part of large elm stand west of road
349	360	<i>Ulmus procera</i>	English Elm	Low	Deadwood, part of large elm stand west of road
349	361	<i>Ulmus procera</i>	English Elm	Low	Deadwood, part of large elm stand west of road
349	362	<i>Ulmus procera</i>	English Elm	Low	Deadwood, part of large elm stand west of road
349	363	<i>Ulmus procera</i>	English Elm	High	Poor condition, large trunk wound. Remove
367	364	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	Medium	Deadwood, remove undergrowth. Significant blue foliage. Propagation source
	365	<i>Eucalyptus ?rubida</i>	Candlebark	Low	Removed
368	366	<i>Cedrus deodara</i>	Himalayan Cedar	Low	Deadwood, Mulch
366	367	<i>Ulmus procera</i>	English Elm	Low	Deadwood, thin out crown
369	368	<i>Ulmus procera</i>	English Elm	High	Remove, sucker from #367
369	369	<i>Ulmus procera</i>	English Elm	High	Remove, sucker from #367
	370	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
	371	<i>Acacia melanoxylon</i>	Blackwood	Medium	Remove, poor condition overcrowded
351	372	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Medium	Poor condition, Remove. Plant Blackwood
350	373	<i>Populus nigra var. italica</i>	Lombardy Poplar	Low	Deadwood, clear trunk to 1m
	374	<i>Acacia melanoxylon</i>	Blackwood	Low	Deadwood
348	375	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
347	376	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
356	377	<i>Acer pseudoplatanus</i>	Sycamore	High	Poor condition, weedy species. Remove and plant <i>Fagus sylvatica</i>
354	378	<i>Eriobotrya japonica</i>	Loquat	High	Stump. Fire damaged, Remove.
355	379	<i>Alnus acuminata</i> subsp. <i>glabrata</i>	Evergreen Alder	High	Stump. Fire damaged, Remove. Plant <i>Fagus sylvatica</i>
357	380	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Large trunk wound but sound. Monitor. Mulch
359	381	<i>Calocedrus decurrens</i>	Incense Cedar	Medium	Dead leader, Deadwood, formative prune, mulch
360	382	<i>Cedrus atlantica</i> f. <i>glauca</i>	Blue Cedar	Low	Deadwood, shape crown, mulch
361		<i>Araucaria cunninghamii</i>	Hoop Pine	Medium	Not Cryptomeria, multiple stems, shape crown, remove low vegetation, mulch. Large Blue Cedar to E (not surveyed)
362	383	<i>Acer negundo</i>	Box Elder	High	Poor condition and structure. Remove
	384	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Low	Deadwood
365	385	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Deadwood, mulch
364	386	<i>Tilia cordata</i>	Small-leaved Linden	Medium	Deadwood, mulch. Not <i>Fagus</i>
363	387	<i>Fraxinus</i> 'Raywood'	Claret Ash	Low	Deadwood
371	388	<i>Liquidambar styraciflua</i>	Liquidamber	High	Multiple split leaders, poor structure. Remove. Will create room for new Himalayan Cedar
372	389	<i>Liquidambar styraciflua</i>	Liquidamber	High	Multiple leaders, poor structure. Remove. Will create room for new Himalayan Cedar
	390	<i>Aesculus hipposastanum</i>	Horse Chestnut	Medium	Deadwood, mulch.
373	391	<i>Sequoia sempervirens</i>	Coast Redwood	Low	Lift crown, remove surrounding vegetation, mulch. Third Redwood located E
373	392	<i>Sequoia sempervirens</i>	Coast Redwood	Low	Lift crown, remove surrounding vegetation, mulch.
382	393	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	Medium	Not Removed 2018. Deadwood and prune watershoots to 1m. Remove Cedar to S

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
384	394	<i>Populus nigra var. italica</i>	Lombardy Poplar	High	Removed 2019. Remove stump and replant Lombardy Poplar. Remove new <i>E. polyanthemos</i> to SW
380	395	<i>Platanus x acerifolia</i>	London Plane	High	Fire damaged, lower branches and trunk damaged. Deadwood. Monitor for 12 months (may require removal). Mulch
375	396	<i>Platanus x acerifolia</i>	London Plane	High	Fire damaged, lower branches and trunk damaged. Remove deadwood. Monitor for 12 months. Mulch
	712	<i>Brachychiton populneus</i>	Kurrajong	Medium	Poor condition & overcrowded. Remove
376	397	<i>Platanus x acerifolia</i>	London Plane	High	Fire damaged, lower branches and trunk damaged. Remove deadwood. Monitor for 12 months. Mulch
	398	<i>Eucalyptus rubida</i>	Candlebark	Low	Fire damaged and felled 2020. Replant
	399	<i>Populus nigra var. italica</i>	Lombardy Poplar	Low	Deadwood, prune watershoots on trunk to 1m
377	400	<i>Populus nigra var. italica</i>	Lombardy Poplar	High	Fire damaged. Remove and replant
374	401	<i>Eucalyptus punctata</i>	Grey Gum	Low	Not Spotted Gum. Deadwood. Same as #356 # 403 & #405
379	402	<i>Pinus nigra</i> subsp. <i>laricio</i>	Corsican Pine	Medium	Fire damaged. Monitor, remove lower dead branches. Remove pine seedling down hill
378		<i>Cupressus torulosa</i>	Bhutan Cypress	High	Fire damaged, Removed. Replant Bhutan Cypress
386	403	<i>Eucalyptus punctata</i>	Grey Gum	Low	Deadwood
385	404	<i>Angophora costata</i>	Smooth-barked Apple Box	Low	Deadwood
387	714	<i>Ulmus glabra</i>	Wych Elm	Medium	Fair condition. Deadwood, treat soil compaction and mulch
391	405	<i>Eucalyptus punctata</i>	Grey Gum	Low	Deadwood
393	406	<i>Platanus x acerifolia</i>	London Plane	Low	Deadwood
392	407	<i>Platanus x acerifolia</i>	London Plane	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
390	408	<i>Quercus canariensis</i>	Algerian Oak	Low	Deadwood
389	409	<i>Angophora floribunda</i>	Rough-barked Apple Box	Low	Deadwood, Very large, significant tree
388	410	<i>Populus x canadensis</i>	Canadian Poplar	Low	Deadwood
383	411	<i>Eucalyptus melliodora</i>	Yellow Box	Low	Deadwood. Outstanding, large significant tree
394	412	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Trunk lopped to 10m. Replant Monterey Cypress, select 1 seedling
394	413	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Stump. Replant Monterey Cypress, select 1 seedling
394	414	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Trunk lopped to 10m. Replant Monterey Cypress, select 1 seedling
394	415	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Stump. Replant Monterey Cypress, select 1 seedling
394	416	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Stump. Replant Monterey Cypress, select 1 seedling
394	417	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Stump. Replant Monterey Cypress, select 1 seedling
394	418	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Stump. Replant Monterey Cypress, select 1 seedling
394	419	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	Stump. Replant Monterey Cypress, select 1 seedling
	420	<i>Acer palmatum</i>	Japanese Maple	High	Fire damaged and dead. Remove and replant Maple
	421	<i>Acer palmatum</i>	Japanese Maple	High	Fire damaged and dead. Remove and replant Maple
	715	<i>Hakea laurina</i>	Pincushion Hakea	High	Fire damaged and dead. Remove
	716	<i>Hakea laurina</i>	Pincushion Hakea	High	Fire damaged and dead. Remove
	422 +	<i>Platanus x acerifolia</i> (see Sheet 6)			

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	429	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Medium	Remove low branch, deadwood
	430	<i>Eucalyptus viminalis</i>	Manna Gum	High	Stump, removed Ansaldi report Jan 2024. Prevent regrowth
	431	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood

Summary Table Sheet 5

Removed 2005 -2019	Removed 2020-2021	To be Removed	To be Replanted
	<i>Hazardous trees</i>	<i>Woody weeds and other unsuitable trees</i>	
236, 246, 281, 290, 291	270, 274, 303, 316, 317, 346,	271, 275, 284, 293	293, 303, 334, 291, 299
296, 299, 346	357, 398, 400, 378/2004	304, 305, 709, 316,	316, 317, 324, 346, 357
706, 708, 704	412, 413, 414, 415, 416	331, 334, 702, 324, 341, 342, 355, 363	378/2004 394, 398, 400
394	417, 418, 419, 420, 421	368, 369, 371, 372, 377	412, 413, 414, 415,
	711, 715, 716	378, 379, 383, 388	416, 417, 418, 419,
	Removed 2024 349, 702, 703, 430	389, 399, 712	420, 421
			711
12	27	28	25

2.6 Sheet 6 Tree Removals

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
400	422	<i>Platanus x acerifolia</i>	London Plane	Low	Deadwood, lightly lift crown. Remove poor Silky Oak 5m N (beside toilet)
399	423	<i>Acacia floribunda</i>	Sallow Wattle	High	Poor condition. To be removed
403	424	<i>Pittosporum tenuifolium</i>	Kohuhu		Removed
402	425	<i>Cupressus torulosa</i>	Bhutan Cypress	Low	Deadwood, lightly lift crown, large significant tree. Remove recently planted Plane tree beside canopy on E side
401	426	<i>Brachychiton populneus</i>	Kurrajong		Removed. Area now paved
396	427	<i>Populus x canadensis</i>	Canadian Poplar	Low	Fire scar on trunk. Monitor. Deadwood, mulch
397	428	<i>Populus x canadensis</i>	Canadian Poplar	Low	Deadwood, mulch
405	432	<i>Tilia x europaea</i>	Linden	Medium	Deadwood, remove suckers, mulch. Improve growing conditions
406	433	<i>Populus x canadensis</i>	Canadian Poplar	Low	Deadwood, mulch
408	434	<i>Populus nigra var. italica</i>	Lombardy Poplar	High	Stump. Replant Lombardy Poplar. Also plant matching tree on east side
409	435	<i>Populus alba</i>	White Poplar	Medium	Deadwood and shape crown, mulch
410	436	<i>Populus x canadensis</i>	Canadian Poplar	Low	Deadwood, mulch
411	437	<i>Eucalyptus botryoides</i>	Southern Mahogany	Low	Deadwood
412	438	<i>Populus nigra var. italica</i>	Lombardy Poplar		Stump. Removed 2017.
412	439	<i>Populus nigra var. italica</i>	Lombardy Poplar		Stump. Removed 2017.
413	440	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Low	Deadwood, reduce canopy weight
	441	<i>Liquidambar styraciflua</i>	Liquidamber	Low	Poor structure. Formative prune, mulch
414	442	<i>Platanus x acerifolia</i>	London Plane	Low	Deadwood

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
415	443	<i>Populus x canadensis</i>	Canadian Poplar	Low	Deadwood, mulch
	444	<i>Ulmus x hollanica</i>	Dutch Elm	Low	Deadwood, mulch
417	445	<i>Quercus robur</i>	English Oak	High	Removed. Poor structure. Not Q. cerris Replant <i>Quercus robur</i>
	446	<i>Gleditsia tricanthos</i> 'Shademaster'	Shademaster Honey Locust	High	Removed. Plant <i>Populus x canadensis</i> 'Aurea'
	447	<i>Juglans nigra</i>	Black Walnut	High	Removed. Replant <i>Juglans nigra</i>
	448	<i>Fraxinus</i> 'Raywood'	Claret Ash	High	Dead. Remove, too close to gum #449 to replant
	449	<i>Eucalyptus viminalis</i>	Manna Gum	Low	Deadwood
420	450	<i>Acacia melanoxylon</i>	Blackwood		Removed
	451	<i>Eucalyptus botryoides</i>	Southern Mahogany	High	Stump. Replant Southern Mahogany
419	452	<i>Angophora costata</i>	Smooth-barked Apple Box	Low	Deadwood
418	453	<i>Sequoiadendron giganteum</i>	Giant Redwood	Medium	Partly fire damaged, remove low dead branches, mulch. Remove young Claret Ash on NE side
	454	Removed			
	455	<i>Acacia melanoxylon</i>	Blackwood	High	Removed. Remove Cypress stump and plant Monterey Cypress
416	456	<i>Fraxinus angustifolia</i>	Narrow-leaf Ash	Medium	Remove low branch, deadwood
423	457	<i>Eucalyptus melliodora</i>	Yellow Box	High	Stump, fire damaged. Remove and replant Yellow Box
425	458	<i>Eucalyptus melliodora</i>	Yellow Box	High	Stump, fire damaged. Remove and replant Yellow Box
426	459	<i>Populus x canadensis</i>	Canadian Poplar	High	Stump , fire damaged. Remove and replant Canadian Poplar
421	460	<i>Populus nigra</i> var. <i>italica</i>	Lombardy Poplar	High	Stump, Fire damaged, Replant Lombardy Poplar. Also a Poplar pair N of bridge W side beside stump
422	461	<i>Eucalyptus melliodora</i>	Yellow Box	High	Stump, Fire damaged. Remove and replant Yellow Box

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
	462	<i>Acacia melanoxylon</i>	Blackwood	High	Removed
424	463	<i>Hesperocyparis macrocarpa</i> 'Horizontalis'	Monterey Cypress	High	Stump, Fire damaged. Replant Monterey Cypress
427	464	<i>Eucalyptus melliodora</i>	Yellow Box	High	3m high Stump with trunk galls. Replant Yellow Box
428	465	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	High	6 m high trunk. Fire damaged and dead. Replant Monterey Cypress
429	717	<i>Populus balsamifera</i>	Balsam Poplar	High	Stump, Fire damaged. Replant Balsam Poplar. Not P. yunnanensis
430	466	<i>Populus x canadensis</i>	Canadian Poplar	Medium	Deadwood, Mulch, Monitor
443	467	<i>Corymbia maculata</i>	Spotted Gum	High	Stump. Prevent regrowth. Removed in Ansaldi report Jan 2024
442	468	<i>Corymbia maculata</i>	Spotted Gum	Low	Low vigour, mulch
438	469	<i>Eucalyptus melliodora</i>	Yellow Box	High	Stump. Remove and replant Yellow Box
432	470	<i>Platanus x acerifolia</i>	London Plane	Medium	Deadwood, Monitor, shape crown, mulch
433	471	<i>Cryptomeria japonica</i>	Japanese Cedar	High	Removed, Fire damaged. Replant Japanese Cedar
	472	<i>Eucalyptus melliodora</i>	Yellow Box	High	Stump. Remove and replant Yellow Box
434	473	<i>Pinus ponderosa</i>	Western Yellow Pine	Low	Deadwood
435	474	<i>Eucalyptus melliodora</i>	Yellow Box	Low	Deadwood
	475	<i>Eucalyptus</i> sp.		High	Stump. Plant Blackwood
437	476	<i>Quercus coccinea</i>	Scarlet Oak	Medium	Formative prune, deadwood, mulch
439	477	<i>Acer palmatum</i>	Japanese Maple	Medium	Removed. Replant Japanese Maple
441	478	<i>Quercus coccinea</i>	Scarlet Oak	Medium	Formative prune, deadwood, mulch
445	479	<i>Acacia melanoxylon</i>	Blackwood	Medium	Stump. Remove and replant Blackwood
440	480	<i>Acer negundo</i>	Box Elder	Medium	Stump. Remove and plant Pin Oak
446	481	<i>Sequoia sempervirens</i>	Coast Redwood	Medium	Double leader, remove 1 stem, formative prune, mulch

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
436	482	<i>Salix 'Tortuosa'</i>	Twisted Willow	Medium	Stump, Poor species selection. Plant <i>Populus x canadensis</i>
447	483	<i>Eucalyptus tricarpa</i>	Ironbark	Low	Deadwood
448	484	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, Fire damaged. Replant Smooth Arizona Cypress. Significant planting
450	485	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, Fire damaged. Replant Smooth Arizona Cypress. Significant planting
462	486	<i>Cupressus funebris</i>	Funeral Cypress	High	Fire damaged. Deadwood and mulch. Significant tree. Label wrong name
		next tree at end of road			
475	487	<i>Sequoia sempervirens</i>	Coast Redwood	Low	Formative prune, mulch
473	488	<i>Sequoia sempervirens</i>	Coast Redwood	Low	Formative prune, mulch
474		<i>Eucalyptus rubida</i>	Candlebark	High	Fire damaged and now stump. Replant Candlebark
472	489	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	Medium	Split double leader. Monitor, minor fire damage. Mulch
471	490	<i>Thuja plicata</i>	Western Red Cedar	High	Stump, Fire damaged and dead. Replant Western Red Cedar
470	491	<i>Eucalyptus rubida</i>	Candlebark		Stump, Fire damaged. Replant Candlebark
	492	<i>Populus nigra var. italica</i>	Lombardy Poplar	High	Stump at ground level. Fire damaged and dead.
464	493	<i>Eucalyptus melliodora</i>	Yellow Box	High	Stump, Fire damaged 3 trunks former stump regrowth. Poison stump and replant Yellow Box
449	494	<i>Eucalyptus melliodora</i>	Yellow Box	High	Stump beside bridge. Poison stump and Replant Yellow Box
444	495	<i>Eucalyptus melliodora</i>	Yellow Box	Medium	Deadwood
431	496	<i>Populus x canadensis</i>	Canadian Poplar	High	Stump, Fire damaged. Replant Canadian Poplar
463	497	<i>Cupressus funebris</i>	Funeral Cypress	Medium	Stump, Fire damaged. Replant Funeral Cypress
	498	<i>Acacia melanoxylon</i>	Blackwood	Medium	Stump. Plant new <i>Picea smithiana</i>

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
465	499	<i>Pinus canariensis</i>	Canary Island Pine	Low	Deadwood
461	500	<i>Picea smithiana</i>	West Himalayan Spruce	High	Fire damaged. Surprisingly tree has survived but is impacted, basal trunk wound present. Deadwood and mulch. Plant new Spruce at #498
466	501	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Partial fire damage on S side. Deadwood. Significant, rare single trunk form. Not C. torulosa.
460	502	<i>Cinnamomum camphora</i>	Camphor Laurel	Medium	Partly fire damaged trunk. Monitor. Deadwood, formative prune, remove stubs, mulch
	503	<i>Cupressus sempervirens</i> 'Stricta'	Pencil Pine	High	Stump, Fire damaged, Dead significant tree. Replant Pencil Pine, use cutting from trees on east side
	504	<i>Olea europaea</i>	Olive	Low	Formative prune, mulch
454	505	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Significant, rare single trunk form. Not 'Fastigiata'. Deadwood.
453	506	<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	Medium	Significant, rare single trunk form. Not 'Fastigiata'. Deadwood.
455	507	<i>Pinus canariensis</i>	Canary Island Pine	Low	Deadwood
456	508	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, Fire damaged and stump burnt out. Significant tree. Replant Smooth Arizona Cypress, select 1 seedling.
458	509	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, Fire damaged. Replant Smooth Arizona Cypress, select 1 seedling.
458	510	<i>Hesperocyparis glabra</i>	Smooth Arizona Cypress	High	Stump, Fire damaged. Only requires 1 tree between 509 & 510
457		<i>Cupressus funebris</i>	Funeral Cypress	High	Stump, Fire damaged and dead. Significant. Replant Funeral Cypress
		Trees on west boundary			
467		<i>Pinus radiata</i>	Monterey Pine	High	Dead, Fire damaged and dead. Future removal.

Tree No. 2004	Tree No. 2005	Botanical Name	Common Name	Priority	Recommendations
468		<i>Pinus canariensis</i>	Canary Island Pine	Low	Partly fire damaged. Deadwood
none		<i>Pinus nigra</i> subsp. <i>laricio</i>	Corsican Pine	Low	Partly fire damaged. Deadwood [west of #468]

Summary Table Sheet 6

Removed 2005 -2019	Removed 2020-2021	To be Removed	To be Replanted
	<i>Hazardous trees</i>	<i>Woody weeds and other unsuitable trees</i>	
426, 434, 438, 439	447, 448, 451, 459, 424	423, 445, 446	434, 438, 439, 447
457, 458,	460, 461, 463, 465, 717	455, 482	451, 455, 457, 458,
480, 498	469, 471, 472, 479	467/2004	459, 460 x2, 461,
	484, 485, 474/2004		463, 464, 465, 717
	490, 491, 492, 493,		469, 471, 472, 479, 480, 484
	494, 496, 497		485, 490, 491, 493,
	503, 508, 509, 510		494, 496, 497, 498, 503,
	457/2004, 467/2004		508, 509
	467 removed 2024		457/2004, 474/2004
8	31	6	35

3.0 TREE REMOVALS:

3.1 Total Tree Removals

The removal of trees at Buchan Caves is divided into the following 3 periods, and commences in 2005 the year of the features survey by Earth Tech. Prior to this survey maps and plant lists were prepared in 2004 and are reproduced in the Heritage Action Plan.

1. Removed from 2005 – 2019
2. Removed 2020 – 2022 & 2023-2024
3. To be Removed

This latter category includes a range of trees that were fire damaged and are yet to be removed, trees in poor condition, damaged, diseased, unsafe or are unable to be retained by implementing aboricultural practices.

The vast majority are weedy species along Spring Creek and Fairy Creek. This includes, *Crataegus monogyna*, *Fraxinus angustifolia* subsp. *angustifolia* (very common, in Spring Creek, eg thicket north of pump shed), *Fraxinus ornus*, *Salix x viminalis*, *Acer negundo*, *Populus nigra* var. *italica*, *Ulmus procera* suckers, *Casuarina cunninghamiana* trees and suckers (#331), a native of NSW, Qld and NT. *Callistemon salignus* is a native of NSW and Qld and has the potential to become weedy. The removal of these woody weeds along the creek lines will enable revegetation with indigenous riparian species.

The Heritage Act does not permit retrospective approval to remove trees. Trees recorded as being removed in the period 2005 – 2019 are not included in this permit application, but the information is important for replanting and conserving the heritage landscape. For example, the replanting of *Populus alba* ‘Pyramidalis’ #11 and *Populus alba* #653 and #649.

3.2 Tree Removal Table

Drawing No.	Removed 2005 -2019	Removed 2020-2024	To be Removed
		<i>Hazardous trees</i>	<i>Woody weeds and other unsuitable trees</i>
Sheet 1	10	14	22 (+ 7 suckers)
Sheet 3	20	26	46
Sheet 2	1	12	4
Sheet 4	7 [plus 3 for office]	6	28
Sheet 5	12	27	28
Sheet 6	8	31	6
TOTAL	58	116	134

3.3 Condition 6 P34404

New and replacement plantings of *Acer palmatum* is a very suitable understory plant with impressive autumn colour, and the *Acer rubrum* 'Autumn Red' [to replace removed Claret Ash #167] and new *Sequoia sempervirens* are acceptable. Also appropriate are the 2 *Taxodium distichum* planted beside Spring Creek below bridge 2 and north of the Swimming Pool.

4.0 REPLACEMENT AND NEW TREE PLANTING

4.1 Condition 7 - P34404

Trees lost because of bushfire; natural tree losses; lost historic plantings; and inappropriate species planted since 2005. The works for **reconstruction of the historic landscape** to be applied for in that permit are expected to be informed by the Burra Charter conservation processes of restoration, reconstruction, and adaption together with interpretation. Article 13 of the Burra Charter, 'Co-existence of cultural values', is also a relevant consideration.

The development of plans for this work should make reference to historic and recent documentation of the place, including but not limited to: the 1929 Hugh Linaker plan; photographic evidence; oral histories; tree collection surveys; the 2004 Heritage Action Plan; the 2020 Buchan Caves Significant Tree Assessment and any other relevant research.

The reconstruction plan must also address the sourcing and propagation of nursery stock, including the establishment of a contract grower for propagation of species not readily available. Planning for the reconstruction plan must anticipate a period of up to 2 years for this landscape work to be implemented

4.2 Tree Planting Table

Code	Botanical Name	SHEET						Total
		1	2	3	4	5	6	
AAR	Acer rubrum 'Autumn Red'			1				1
Ap	Acer palmatum	1		3			1	5
Am	Acacia melanoxylon	2		2	10	4	3	21
Ab	Araucaria bidwillii					1		1
Bpe	Betula pendula			2				2
Bp	Brachychiton populneus	1						1
Co	Callitris oblonga			1				1
Ca	Cedrus atlantica			1				1
Cl	Chamaecyparis lawsoniana			1				1
Cj	Cryptomeria japonica						1	1
Cf	Cupressus funebris						2	2
CsS	Cupressus sempervirens 'Stricta'						1	1
Ct	Cupressus torulosa	2				3		5
Eb	Eucalyptus botryoides						1	1
Em	Eucalyptus melliodora		1	2	2	1	5	11
Ep	Eucalyptus polyanthemus		2	12	1			15 ¹
Er	Eucalyptus rubida		4	3		1	3	11 ²

¹ 14 of 15 *Eucalyptus polyanthemus* to be located in North Arm. 12 of 14 planted in an avenue at south end of track (Sheet 3).

² Seven *Eucalyptus rubida* to be planted in North Arm (Sheets 3 and 2).

		SHEET						
Code	Botanical Name	1	2	3	4	5	6	Total
Ev	Eucalyptus viminalis		12	0	1	7	2	22 ³
Fs	Fagus sylvatica					2		2
Fe	Fraxinus excelsior				1			1
Gr	Grevillea robusta	2						2
Hg	Hesperocyparis glabra	4					4	8
Hm	Hesperocyparis macrocarpa	3		1		8	2	14
HmL	Hesperocyparis macrocarpa 'Lutea'	2						2
HmH	Hesperocyparis macrocarpa 'Horizontalis'				1		1	2
HmHA	Hesperocyparis macrocarpa 'Horizontalis Aurea'	1						1
Hl	Hesperocyparis lusitanica				1			1
Jn	Juglans nigra						1	1
Ps	Picea smithiana						1	1
Pc	Pinus canariensis					1		1
Pnla	Pinus nigra subsp. laricio	1						1
Pxa	Platanus x acerifolia	1		2		2	2	7
Pa	Populus alba	1		3	1	3	1	9
PaP	Populus alba 'Pyramidalis'	1		1				2
Pb	Populus balsamifera						1	1
Pnl	Populus nigra var. italica	4		1	1	6	4	16
Pxc	Populus x canadensis	3		1	1	2	3	10
PcA	Populus x canadensis 'Aurea'			2			1	3
Pd	Populus deltoides	1		1				2
Qp	Quercus palustris			2	1	2	1	6
Qr	Quercus robur						1	2
Sg	Sequoiadendron giganteum	1				2		3
Ss	Sequoia sempervirens			2	1	5		8
Tp	Thuja plicata						1	1
Te	Tilia x europaea			2				2
Tl	Tristanopsis laurina		10	2	2			14 ⁴
	TOTAL	31	26	50	24	50	43	222

³ 12 of the 25 *E viminalis* are to be planted in North Arm, northern end (Sheet 2).

⁴ 12 of the 14 *Tristanopsis laurina* are to be planted in North Arm (Sheets 3 and 3).

4.3 Tree Planting Recommendations

The replacement and new tree planting aims to replace **224** trees that have been removed due to fire damage in 2020-22 and trees that have been removed since 2005 and in 2023-4. These trees were a feature of the Buchan Caves Reserve, especially the colourful deciduous poplars, oaks, claret ash, liquidambar, linden, elm, London plane and Japanese maples. These trees were planted to contrast against dense evergreen conifers, cypress, pines and redwoods, and remnant gums, Manna Gum, Yellow Box, Red Box, Candlebark, and Blackwood trees.

The planting of 224 trees will make a significant contribution towards the conservation of the “Linaker Landscape” and the landscape qualities of the Reserve. Generally, the trees are replanted “Like for Like” which will conserve and protect the significant landscape. The replacement tree should generally be replanted within 1-2 m of the removed tree (stump).

This approach is well demonstrated by the work undertaken in late 2005 to remove and replant in 2006 the Monterey Cypress (#128/2004) between bridges 2 and 3. The Monterey Cypress is shown as a stump on the February 2005 Earth Tech tree survey, which was removed after 2007.



Monterey Cypress (#128/2004) removed and replanted, 24 April 2007



Monterey Cypress 23 May 2020

The Planting Plan reinforces the contrasting deciduous and evergreen tree landscape. The planting recognises the valley floor landscape ringed by a conifer row of irregularly planted conifers, between this planting and the forest on the hillsides. The principal conifers are Giant Redwood, Coast Redwood, Monterey Cypress, Mexican Cypress, Smooth Arizona Cypress, Bhutan Cypress, Corsican Pine, Hoop Pine, Bunya Pine and Douglas Fir.

The Plan has recommended the removal of woody weeds, mainly ash, poplars, elm and willow and revegetation of Spring Creek with, *Eucalyptus viminalis*, *Acacia melanoxylon* and *Tristania laurina* while in Fairy Creek *Acacia melanoxylon* trees are shown to replace fire damaged removed trees. A variety of smaller indigenous plants should also be planted along the stream corridors to about 2m beyond the creek edge, including North Arm drain. These plants include *Acacia dealbata*, *Acacia mearnsii*, *Melicactus dentatus*, *Pomaderris aspera*, *Myrsine howittiana*, *Kunzea peduncularis*, *Olearia lirata*, *Lomandra longifolia*, and *Poa sieberiana*. The planting style and density can be determined by investigating the existing planting in Spring Creek between Bridges 3 and 4.

4.4 Replacement Tree Sources

A small number of the replacement tree species will require contact with a specialist nursery as they will not be available. These plants are mainly the conifers, and include;

Cupressus funebris (syn. *Chamaecyparis funebris*)

Cupressus torulosa

Hesperocypress macrocarpa ‘Horizontalis’

Hesperocypress macrocarpa ‘Horizontalis Aurea’

Hesperocypress macrocarpa ‘Lutea’

Hesperocypress macrocarpa [single trunk form], not ‘Fastigiata’

Hesperocypress glabra, not *H. arizonica*

Picea smithiana

Pinus nigra subsp. *laricio*

Thuja plicata

Sequoia sempervirens

It is also likely that the poplars; *Populus nigra* var. *italica*, *P. alba*, *P. alba* ‘Pyramidalis’, *P. x canadensis*, *P. x canadensis* ‘Aurea’, *P. balsamifera*, will not be readily available. However, trees remain in the reserve and can be used as a source for cuttings. A few of the conifers also remain in the reserve and are a source for cuttings or seed.

It is recommended that a suitable tree nursery is contacted, which could include;

Conifer Gardens Nursery, <https://www.conifer.com.au/>

Yamina Rare Plants, <https://www.yaminarareplants.com.au/>

Blerick Tree Farm, <https://www.blericktreefarm.com.au/>

Rivetts Nursery, <https://www.njrivett.com.au/>

Other sources of assistance might be available from the Sale Botanic Gardens (Wellington Shire, <https://www.wellington.vic.gov.au/>) and the Cranbourne Botanic Gardens (<https://www.rbg.vic.gov.au/>)

Indigenous plants are available from Wildseed Nursery at Nicholson, <https://www.wildseednursery.com.au/> and local Landcare groups and Parks Victoria will have a range of plant sources known to them. If possible a community planting day involving schools and the local community is recommended.

Appendix 1: Project Brief

Replanting plan for the reconstruction of the historic landscape

Introduction

Parks Victoria and Gunaikurnai Land and Water Corporation (GLaWAC) as Joint Managers of Buchan Caves Reserve seek to appoint a suitably qualified Heritage Horticulturalist to develop a tree replanting plan consistent with the historic landscape values at Buchan Caves Reserve. The consultant is required to prepare the necessary accompanying documentation (including Heritage Impact Statement), for lodging a Heritage Permit application with Heritage Victoria (in accordance with Condition 7 of Permit P34404).

Buchan Caves Reserve was extensively damaged in the 2019/2020 fires, which caused extensive damage to native and non-native trees and vegetation across the Reserve. Following the immediate removal of a number of dangerous trees, a Significant Tree Assessment (John Hawker, November 2020) and further arboricultural inspections were undertaken, which identified further trees requiring removal due to fire damage. Heritage Permit approval for those removal works was received from Heritage Victoria in March 2021, subject to a number of Conditions being met.

This Request for Quotation relates to meeting the requirements outlined in Condition 7, which states:

Within 6 months of issue of this permit, a new permit application must be lodged with Heritage Victoria for the reconstruction of the historic landscape. This must address, but not be limited to: trees lost because of bushfire; natural tree losses; lost historic plantings; and inappropriate species planted since 2005. The works for reconstruction of the historic landscape to be applied for in that permit are expected to be informed by the Burra Charter conservation processes of restoration, reconstruction, and adaption together with interpretation.

Article 13 of the Burra Charter, 'Co-existence of cultural values', is also a relevant consideration. The development of plans for this work should make reference to historic and recent documentation of the place, including but not limited to: the 1929 Hugh Linaker plan; photographic evidence; oral histories; tree collection surveys; the 2004 Heritage Action Plan; the Buchan Caves Significant Tree Assessment, 2020 (John Hawker); and any other relevant research. The reconstruction plan must also address the sourcing and propagation of nursery stock, including the establishment of a contract grower for propagation of species not readily available. Planning for the reconstruction plan must anticipate a period of up to 2 years for this landscape work to be implemented.

Background

Buchan Caves Reserve is jointly managed by a Committee of Management comprising Parks Victoria and Gunaikurnai Land and Water Aboriginal Corporation (GLaWAC).

The Buchan Caves are within the Krauatungalung country, one of the five clans of the Gunaikurnai people of Gippsland. Buchan Munji is a spiritually significant meeting place that holds important stories and cultural artifacts and has been known to Gunaikurnai people for over 30,000 years.

Parks Victoria acknowledges the co-existence of Aboriginal and non-Aboriginal cultural heritage values at Buchan Caves Reserve. The whole of Buchan Caves Reserve is included on the Victorian Heritage Register (VHR) and is afforded protection under the Heritage Act (2017), including the land, buildings and structures, footpaths and landscaping, and trees and gardens within that extent.

The Victorian Heritage Register (VHR) statement of significance recognises Buchan Caves Reserve as a mature example of the landscape work of Hugh Linaker, a pioneering designer of public landscapes. The 1930s landscaping at Buchan has been carefully tended and sympathetically

augmented in subsequent years and is exemplified by the mature trees in the reserve, the high proportion of deciduous exotic species, the road layout and small rustic rotunda.

A key component of the significance of Buchan Caves Reserve is the tree collection. The mix of colourful deciduous trees, conifers and evergreen trees set in a valley and eucalypt clad hillsides is a landscape of the highest aesthetic quality. The remnant gums, blackwood trees and many indigenous plants, (some listed as rare and threatened in Victoria) are a significant feature in the landscape. The exotic tree planting is reflective principally of the 1930s to 1950s period, and later plantings of Linden trees in the mid-1960s. Tree planting, removals, replanting and new planting has occurred on a minor scale over the past 50 years.

The December 2019-January 2020 bushfire event severely impacted the designed landscape and trees at the Reserve, affecting around 160 trees. Of the 160, 68 trees were from the Linaker designed landscape. Some were removed for safety reasons immediately following the fire. 40 of the Linaker trees were subsequently removed in January 2021 with the benefit of a Heritage Victoria permit. The 2020 surveys also identified 29 trees for monitoring (including Redwoods expected to recover, but Linden, Plane trees, Smooth Arizona Cypress and Spruce with thin bark may not or be severely compromised by the fire and require removal).

The replanting plan will complement a site concept plan currently in preparation that will inform the reinstatement of fire damaged park assets, guide future facilities development and meet the aspirations of the Gunaikurnai Traditional Owners and joint land managers.

Parks Victoria and GLaWAC as joint managers of the reserve provided the following statement of intent about future restoration:

The fire event of January 2020 had a severe impact on some Aboriginal and non-Aboriginal cultural heritage values. The recovery process will be a long one over many years. In the development of the longer term recovery process, including management of the historic landscape, the joint managers will be informed by the Joint Management Plan, will recognise the aspirations of GLaWAC and the community, acknowledge the requirements of the Heritage Act (2017) and the Aboriginal Heritage Act (2006), and be informed by guidance from the Heritage Action Plan (2004), and the Buchan Caves Significant Tree Assessment (John Hawker, November 2020) tree survey, report with recommendations.

The Buchan Caves Significant Tree Assessment assessed 714 trees (239 more trees than in 2004) in May 2020 and involved species identification, updated and assessed the tree collection, and identified the condition of trees and missing trees. The loss of trees due to the 2020 fire and natural decline has resulted in the need for a major replanting program especially in the area south of the Swimming Pool, North Arm, Royal Cave, and Fairy Cave following the removal of dead or damaged trees. (p.50)

In planning for the recovery of the landscape, the joint managers are also mindful of recommendations in the Significant Tree Assessment report:

- review the suitability and appropriateness (legality) of trees planted since 2005.
- assess all post-February 2005 trees and where there has been overplanting the trees should be either removed or transplanted. As observed by both Owens in 1940 and Trevaskis in 1955 it is necessary to remove one or two specimens in order to preserve the natural shape and value of the remainder.
- enter into an arrangement with a nursery to propagate trees for replanting. Some of the trees are not readily available and this includes Canadian Poplar, Golden Poplar, White Poplar, Fastigiate White Poplar, Lombardy Poplar and Cottonwood. The cypress will need to be vegetatively propagated either by cuttings or grafting to ensure the correct variety and form.

- establishment of an indigenous plant collection to conserve and highlight the unique flora of the region, especially Limestone Ecological Vegetation Class which consists of a number of rare and threatened plant species, and Grassy Woodland and Valley Grassy Forest which are the main ecological classes seen in the Reserve.

Key tasks and timeline (Deliverables)

OUTPUT	DUE
<p>Develop a long-term plan for tree replanting and tree management, suitable for lodging with Heritage Victoria under the Heritage Act 2017, and including:</p> <ul style="list-style-type: none"> • Drawings showing the replanting plan, including identification of each tree species, and geo-location. • Recommendations for ground cover plantings in suitable locations. • Recommendations for dealing with senescence of surviving trees. • Plan for sourcing and propagation of nursery stock, including the establishment of a contract grower for propagation of species not readily available. • Timeline for implementation (anticipating a period of up to 2-5 years for this landscape work to be implemented). • Prepare suite of works suitable for declaration of a permit exemption under the Heritage Act 2017 by Heritage Victoria. 	<p>DRAFT: 30 September 2021</p> <p>FINAL: 30 October 2021</p>

Reporting and meeting requirements

At a minimum, the successful contractor will be required to:

- Attend an onsite project start-up meeting with Parks Victoria and GLaWAC representatives, and up to three further meetings (which may be online) .
- Present DRAFT Deliverable to Parks Victoria and GLaWAC representatives prior to finalisation.
- Present FINAL Deliverable at the conclusion of the assignment to Parks Victoria and GLaWAC representatives.

Request for Quote submission

Parks Victoria and GLaWAC requests the consultant confirm the following in the submission:

- Full details of the nominated personnel that will be directly involved in the delivery of the services;
- Details of any assumptions and exclusions in their proposal;
- Statement on any variances that the consultant may wish to make to any part of the scope of works as outlined above;
- Lump sum fee payable to the consultant for the successful completion of the project;
- A cost breakdown of the project by deliverable;

- Details of any exclusions where the consultant will require additional payment above the stated fixed lump sum to complete the project;
- Hourly rates for each member of the consultant team for the project, and conditions that will apply should the scope of the project vary.

Assessment Criteria

Tenderers will be assessed against the following criteria:

Mandatory Criteria:

The following criteria is mandatory, and only tenderers who can demonstrate eligibility to the following criteria will be eligible to tender for this contract.

Mandatory Evaluation Criteria	Complies (Yes/No)
Insurance	
Appropriate levels of Insurance: Product and Public Liability - \$20 million Professional Indemnity - \$10 million	

Weighted Evaluation Criteria:

As part of the assessment of tender submissions, the following table detailing evaluation criteria and its associated weighting shall be used. Tenderers are required to provide details for each criteria item as part of their submission which shall then be assessed accordingly.

Evaluation Criteria	Weighting (%)
1. Financial – Fee Breakdown To be calculated either through VendorPanel automated weighted price calculation and or via the formula: Price Score (out of 10) = (lowest tender price x 10)/(tender price) Weighting = 20% x Price Score/10	20%
2. Previous experience and qualifications Suitably qualified and experienced Heritage Horticulturalist with demonstrated experience developing tree management plans for VHR heritage places.	60%
3. Project understanding, methodology and timelines Tenderers are to submit a proposed methodology and program for undertaking the required tasks. This is to clearly outline expected deliverables across the different staged timelines set out in the Key tasks and timelines section.	20%

Key reference material

The successful contractor will be provided with the following documents upon their appointment, and will refer to and consider the policies and objectives within them:

- Memorandum: GLaWAC position regarding Landscape Plan Buchan Caves Reserve (2021);
- Hugh Linaker plan (1929);
- Heritage Action Plan (2004);
- Buchan Caves Significant Tree Assessment (2020);
- Buchan Caves Tree Removal Plan (in progress, 2021);
- Victorian Heritage Database, Buchan Caves Reserve (H1978),
<https://vhd.heritagecouncil.vic.gov.au/places/11578>

Appendix 2: Heritage Permit P34404

THE PERMIT ALLOWS: Removal of hazardous trees following the 2019/2020 bushfire along with woody weeds in the reserve in accordance with the following documents, as endorsed by the Executive Director and forming part of this permit:

• **BUCHAN CAVES TREE REMOVAL HERITAGE PERMIT APPLICATION, REVIEW OF PROPOSED TREE REMOVAL AND IDENTIFICATION OF SPECIES ON 2005 SURVEY, PREPARED BY JOHN HAWKER, DECEMBER 2020.**

THE FOLLOWING CONDITIONS APPLY TO THIS PERMIT:

1. The permission granted for this permit shall expire if one of the following circumstances applies: the permitted works have not commenced within two (2) years of the original date of issue of this permit, or are not completed within four (4) years of the original date of issue of this permit unless otherwise agreed in writing by the Executive Director, Heritage Victoria.
2. The Executive Director, Heritage Victoria is to be given five working days' notice of the intention to commence the approved works.
3. Prior to the commencement of any of the works approved by this permit, a **Construction Management Plan** (the Plan) must be provided for endorsement by the Executive Director, Heritage Victoria and once endorsed becomes part of the permit. The Plan must include a sequencing program for the approved works, details of any temporary infrastructure and services required, protection methods for the heritage place during the undertaking of the works, a work site layout plan and a tree/vegetation management and protection plan prepared in accordance with AS4970 Protection of trees on development sites.
4. The stumps of elms, linden, poplars and gums will require grinding or mechanical removal as part of the approved works. No tree trunks are to be retained for sculpturing purposes.
5. The Executive Director, Heritage Victoria is to be notified in writing at the **completion of the tree removal works** approved in this permit.
6. Within 2 months of the completion of the tree removal works, in accordance with the notification at condition 5, the Executive Director, Heritage Victoria must be provided with a final **Tree Removal Plan** which fully documents all trees removed in accordance with this permit plus those removed immediately after the 2019/2020 bush fires. Each tree species must be identified, and geo-located in this Tree Removal Plan.
7. Within 6 months of issue of this permit, a new permit application must be lodged with Heritage Victoria for the reconstruction of the historic landscape. This must address, but not be limited to: trees lost because of bushfire; natural tree losses; lost historic plantings; and inappropriate species planted since 2005. The works for **reconstruction of the historic landscape** to be applied for in that permit are expected to be informed by the Burra Charter conservation processes of restoration, reconstruction, and adaption together with interpretation. Article 13 of the Burra Charter, 'Co-existence of cultural values', is also a relevant consideration. The development of plans for this work should make reference to historic and recent documentation of the place, including but not limited to: the 1929 Hugh Linaker plan; photographic evidence; oral histories; tree collection surveys; the 2004 Heritage Action Plan; the Buchan Caves Significant Tree Assessment, 2020 (John Hawker); and any other relevant research. The reconstruction plan must also address the sourcing and propagation of nursery stock, including the establishment of a contract grower for propagation of species not readily available. Planning for the reconstruction plan must anticipate a period of up to 2 years for this landscape work to be implemented.

8. Should further minor changes in accordance with the intent and approach of the endorsed documentation become necessary, correspondence and supporting documentation must be prepared and lodged in accordance with this permit condition for assessment by the Executive Director, Heritage Victoria who will advise on the approach to be taken to address these matters.

9. Approved works or activities are to be planned and carried out in a manner which prevents damage to the registered place/object. However, if other previously hidden original or inaccessible details of the object or place are uncovered, any works that may affect such items must immediately cease. The Executive Director, Heritage Victoria must be notified of the details immediately to enable Heritage Victoria representatives to inspect and record the items, and for discussion to take place on the possible retention of the items, or the issue of a modified approval.

10. All works must cease, and Heritage Victoria must be contacted if historical archaeological artefacts or deposits are discovered during any excavation or subsurface works. Should any munitions or other potentially explosive artefacts be discovered, Victoria Police is to be immediately alerted and the site is to be immediately cleared of all personnel.

11. The Executive Director, Heritage Victoria must be informed when the approved works have been completed.

NOTE THAT PERMISSION HAS BEEN GIVEN FOR INSPECTIONS OF THE PLACE OR OBJECT TO BE UNDERTAKEN DURING THE CARRYING OUT OF WORKS, AND WITHIN SIX (6) MONTHS OF NOTIFICATION OF THEIR COMPLETION.

TAKE NOTICE THAT ANY NATURAL PERSON WHO CARRIES OUT WORKS OR ACTIVITIES NOT IN ACCORDANCE WITH THE PERMIT OR CONDITIONS IS GUILTY OF AN OFFENCE AND LIABLE TO A PENALTY OF 120 PENALTY UNITS (\$19,826 AS AT JULY 2019) OR IN THE CASE OF A BODY CORPORATE 600 PENALTY UNITS (\$99,132 AS AT JULY 2019) UNDER s104 THE HERITAGE ACT 2017.

WORKS UNDERTAKEN WITHOUT A PERMIT OR PERMIT EXEMPTION CAN INCUR A FINE OF UP TO 4800 PENALTY UNITS (\$793,056 AS AT JULY 2019) FOR A NATURAL PERSON OR 5 YEARS IMPRISONMENT OR BOTH AND UP TO 9600 PENALTY UNITS (\$1,586,122 AS AT JULY 2019) IN THE CASE OF A BODY CORPORATE UNDER SECTION 87 OF THE HERITAGE ACT 2017.

THE ATTENTION OF THE OWNER AND/OR APPLICANT IS DRAWN TO THE NEED TO OBTAIN ALL OTHER RELEVANT PERMITS PRIOR TO THE COMMENCEMENT OF WORKS.

Date Issued: 5 March 2021

Signed by the Executive Director, Heritage Victoria:

Steven Avery Executive Director

Appendix 3: Buchan Caves Reserve Tree Replanting Plan

Appendix 4. Buchan 1929 overall plan – Linaker and Buchan Caves 1929 plant list



Score 160.1

A 58	<i>Opuntia Dillenii</i>
A 59	<i>Ulmus Monticola</i>
C 34	<i>Pinus nigra</i>
C 35	<i>Pinus nigra</i>
C 36	<i>Pinus nigra</i>
C 37	<i>Pinus nigra</i>
C 38	<i>Pinus nigra</i>
C 39	<i>Pinus nigra</i>
C 40	<i>Pinus nigra</i>
C 41	<i>Pinus nigra</i>
C 42	<i>Pinus nigra</i>
C 43	<i>Pinus nigra</i>
C 44	<i>Pinus nigra</i>
C 45	<i>Pinus nigra</i>
C 46	<i>Pinus nigra</i>
C 47	<i>Pinus nigra</i>
C 48	<i>Pinus nigra</i>
C 49	<i>Pinus nigra</i>
C 50	<i>Pinus nigra</i>
C 51	<i>Pinus nigra</i>
C 52	<i>Pinus nigra</i>
C 53	<i>Pinus nigra</i>
C 54	<i>Pinus nigra</i>
C 55	<i>Pinus nigra</i>
C 56	<i>Pinus nigra</i>
C 57	<i>Pinus nigra</i>
C 58	<i>Pinus nigra</i>
C 59	<i>Pinus nigra</i>
C 60	<i>Pinus nigra</i>
C 61	<i>Pinus nigra</i>
C 62	<i>Pinus nigra</i>
C 63	<i>Pinus nigra</i>
C 64	<i>Pinus nigra</i>
C 65	<i>Pinus nigra</i>
C 66	<i>Pinus nigra</i>
C 67	<i>Pinus nigra</i>
C 68	<i>Pinus nigra</i>
C 69	<i>Pinus nigra</i>
C 70	<i>Pinus nigra</i>
C 71	<i>Pinus nigra</i>
C 72	<i>Pinus nigra</i>
C 73	<i>Pinus nigra</i>
C 74	<i>Pinus nigra</i>
C 75	<i>Pinus nigra</i>
C 76	<i>Pinus nigra</i>
C 77	<i>Pinus nigra</i>
C 78	<i>Pinus nigra</i>
C 79	<i>Pinus nigra</i>
C 80	<i>Pinus nigra</i>
C 81	<i>Pinus nigra</i>
C 82	<i>Pinus nigra</i>
C 83	<i>Pinus nigra</i>
C 84	<i>Pinus nigra</i>
C 85	<i>Pinus nigra</i>
C 86	<i>Pinus nigra</i>
C 87	<i>Pinus nigra</i>
C 88	<i>Pinus nigra</i>
C 89	<i>Pinus nigra</i>
C 90	<i>Pinus nigra</i>
C 91	<i>Pinus nigra</i>
C 92	<i>Pinus nigra</i>
C 93	<i>Pinus nigra</i>
C 94	<i>Pinus nigra</i>
C 95	<i>Pinus nigra</i>
C 96	<i>Pinus nigra</i>
C 97	<i>Pinus nigra</i>
C 98	<i>Pinus nigra</i>
C 99	<i>Pinus nigra</i>
C 100	<i>Pinus nigra</i>

Climbs on High Ground.

C1	<i>Asocio Suligro</i>
C2	" <i>Brachyura</i>
C3	" <i>Novuscula</i>
C4	" <i>Apelurysia</i>
C5	" <i>Decurrens</i>
C6	" <i>Myrmantia</i>
C7	" <i>Longipala</i>
C8	" <i>Dilapala</i>
C9	<i>Coelophyes Alpina</i>
Q1	<i>Apocrypta anthracina</i>
Q2	<i>Dividing Pines</i>

PLAN

PROPOSED PLANTING SCHEME BUCHAN CAVES

Scale 160 ft to 1 inch

H. LINAKER, LANDSCAPE GARDENER, MONT PARK

20.11. 29

[original plan held on Reserves file, and copies held by the National Trust and Heritage Victoria

List transcribed by John Hawker, Heritage Victoria, 27 March 2007]

Plan Code	No. Required	Plant name on 1929 Plan	Current Botanical Name	Common Name
A	50	Populus Dilatata	Populus nigra var. italica	Lombardy Poplar
B	18	Ulmus Montana	Ulmus glabra	Wych Elm
C	24	Platanus Orientalis	Platanus orientalis ¹	Oriental Plane
D	8	Fraxinus Americana	Fraxinus americana	White Ash
E	8	Populus Alba	Populus alba	Silver (White) Poplar
F	22	Pyrus Aucuparia	Sorbus aucuparia	Rowan Tree
G	6	Acer Negunda	Acer negundo	Box Elder
H	8	Fraxinus Excelsia	Fraxinus excelsior	European Ash
I	4	Pseada Platanus	? Acer pseodoplatanus	Sycamore
J	24	Populus Monilifera	Populus deltoides subsp. monilifera	Cottonwood
K	10	Populus Monilifera Aurea	Populus x canadensis 'Aurea'	Golden Poplar
L	10	Eucalyptus Botryoides	Eucalyptus botryoides	Southern Mahogany
M	10	Eucalyptus Torquata	Eucalyptus torquata	Coral Tree
N	10	Eucalyptus Radiata	Eucalyptus radiata	Narrow-leaved Peppermint
O	10	Eucalyptus Citriodora	Corymbia citriodora	Lemon-scented Gum
P	7	Eucalyptus Viminalis	Eucalyptus viminalis	Manna Gum
Q	7	Eucalyptus Calophylla Rosea	Corymbia calophylla 'Rosea'	Marri (Red Flowering)
R	7	Eucalyptus Calophylla Alba	Corymbia calophylla 'Alba'	Marri (White Flowering)
S	7	Eucalyptus Millodora	Eucalyptus melliodora	Yellow Box
T	7	Eucalyptus Sideroxylon	Eucalyptus sideroxylon	Red Ironbark
U	8	Eucalyptus Cornuta	Eucalyptus cornuta	Yate
V	14	Fugosia Patersonia	Lagunaria patersonii	Norfolk Island Hibiscus
W	4	Cupressus Lambert Aurea	Cupressus macrocarpa 'Horizontalis Aurea'	Golden Cypress
X	4	Cupressus Stricta	Cupressus sempervirens 'Stricta'	Pencil Cypress
Y	4	Cupressus Arizonica	Cupressus arizonica ²	Arizona Cypress
Z	40	Cupressus Lambertiana	Cupressus macrocarpa	Monterey Cypress

¹ Platanus orientalis is a valid name but the tree planted is most likely Platanus x acerifolia (London Plane)

² Cupressus arizonica is a valid name but the tree planted is most likely Cupressus glabra (Smooth-barked Arizona Cypress)

A1		Acacia Elata	Acacia elata	Cedar Wattle
A2		Acacia Normilis	Acacia decurrens	Early Black Wattle
A3		Acacia Prunosa	Acacia pruinosa	Frosty Wattle
A4	10	Quercus Palustris	Quercus palustris	Pin Oak
A5	15	Liquidambar Styraciflua	Liquidambar styraciflua	Liquidamber
A6	4	Quercus Lusitanica	Quercus lusitanica ³	Portuguese Oak
A7	18	Prunus [l]isurus	Prunus ? laurocerasus	Cherry Laurel
A8	17	Calodendron Capensis	Calodendrum capense	Cape Chestnut
A9	19	Melaleuca Styphelioides	Melaleuca styphelioides	Prickly Paperbark
B1	5	Taxodium Distichum	Taxodium distichum	Swamp Cypress
B2	17	Tamarix Japonica	Tamarix chinensis	Chinese Tamarisk
B3	5	Phoenix Canariensis	Phoenix canariensis	Canary Island Date Palm
B4	7	Pinus Halapensis	Pinus halepensis	Aleppo Pine
B5	9	Cupressus Torulosa	Cupressus torulosa	Bhutan Cypress
B6	4	Pinus Canariensis	Pinus canariensis	Canary Island Pine
B7	4	Araucaria Excelsa	Araucaria heterophylla	Norfolk Island Pine
B8	43	Cupressus Macrocarpa	Cupressus macrocarpa	Monterey Cypress
B9	37	Crataegus Scarlet	Crataegus laevigata 'Paul's Scarlet'	Red-flowering Hawthorn
	10	Crataegus Pink	Crataegus laevigata 'Rosea Plena'	Pink-flowering Hawthorn
	11	Crataegus Red	Crataegus laevigata ?cv.	
	12	Eugenia Smithii	Acmena smithii	Lilly Pilly
	13	Eugenia Myrtifolia	Syzygium paniculatum	Magenta Cherry
	14	Eugenia Ventenatii	Waterhousea floribunda	Weeping Lilly Pilly
●	1	Rustic Shade House		
○		Dwarf Trees “Various”		
⊕		Hardy Shrubs “Various”		

Clumps on High Ground

C1		Acacia Saligna	Acacia saligna	Golden Wreath Wattle
C2		Acacia Prominens	Acacia prominens	Gosford Wattle
C3		Acacia Normalis	Acacia decurrens	Early Black Wattle
C4		Acacia Melanoxylon	Acacia melanoxylon	Blackwood
C5		Acacia Decurrens	Acacia decurrens	Black Wattle
C6		Acacia Pycnantha	Acacia pycnantha	Golden Wattle
C7		Acacia Longifolia	Acacia longifolia	Sydney Golden Wattle
C8		Acacia Dilbata	Acacia dealbata	Silver Wattle
C9		Eucalyptus Alpina	Eucalyptus serraensis or <u>Eucalyptus verrucata</u> or Eucalyptus victoriana	Grampians Gum

³ Quercus lusitanica is a valid name but the tree is most likely Quercus canariensis (Algerian Oak)

D1		Mesembryanthemums 12 Varieties	Lampranthus multiradiatus & L. blandus	Mesembryanthemum
D2		Dividing Fence		