Fulham Streamside Reserve – flora, fauna, threats and management



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Cover picture

Showy Podolepis (Podolepis jaceoides) at Fulham in the spring of 2006

The Fulham Streamside Reserve is an 860 ha woodland frontage to the Glenelg River, 10 km north of Balmoral

Report for Hamilton Field Naturalists Club

- Historical background to the Fulham Streamside Reserve
- Flora list of AC Beauglehole, with new records from HFNC to 2013
- Bird list to 2015
- Recommendations for improved management of the reserve
- Recommendation to change the status of the reserve
- Apendix 1. Initial report on Fulham in 2005
- Appendix 2. Submission to VEAC 2009

Fulham Streamside Reserve on the Glenelg River near Balmoral

Fulham Streamside Reserve occupies 860 ha, fronting the Glenelg River for some 6 km in the north of the Parish of Balmoral, approximately 10 km N of Balmoral.

Traditional uses of the reserve have included forestry (Red Gum and Yellow Gum sleepers, posts and poles), firewood gathering, grazing, shooting (ducks and kangaroos), fishing, picnicking, camping along the river (especially at Easter time and school holiday periods), horse-riding and driving recreational vehicles along the tracks and through the bush, and enjoyment of nature (walking, birdwatching, looking at wildflowers). Most of these activities have been unregulated and unsupervised, but timber cutting and grazing are no longer permitted and Parks Victoria now controls the reserve. In April 1986, HFNC, WVCC and others successfully opposed a move by the former Shire of Wannon to strip gravel from the SE corner of the reserve.

The geology is a complex of Aeoleon sands (a high vegetated dune of Lowan Sand in the east and lower sediments in the west), Ordovician schist/gneiss (with rocky outcrops by the river at the eastern end) and Tertiary shallow marine sandstone/siltstone elsewhere.

Some of the vegetation and landform associations can be summarised as follows:

- The gravelly parts in the southern edge support Brown Stringybark (*Eucalyptus baxteri*).
- The extensive flats adjacent to the river have Yellow Gum (*E. leucoxylon*), River Red Gum (*E. camaldulensis*) and Yellow Box (*E. melliodora*).
- The great sand dune supports a stand of Slender Cypress (*Callitris gracilis*) and what appears to be (Desert Stringybark (*Eucalyptus arenacea*)
- The sand sheet on the west end 'peninsula' also appears to have Desert Stringybark, as well as Desert Banksia (*Banksia ornata*) and Silver Banksia (*B. marginata*).
- The wet/saline seeps along the River Tk have Mallee Honey-myrtle (*Melaleuca neglecta*) as the only shrub.
- *Melaleuca decussata* occurs on the damp heath south of the Old Railway Bridge Tk and a substantial clump of *Triodia* occurs on near the eastern road closure site on the River Tk.
- Buloke (*Allocasuarina luehmannii*) occurs on the damp heath and there has been a substantial regeneration since grazing was removed from the reserve in about 1987.
- *Calytrix tetragona* is the prominent shrub on much of the drier heathland/woodland.

Collectively, these soils support a grassy-woodland/heathy-woodland of particular botanic significance and beauty. Beauglehole noted (1984) that the early plant surveys had found 8 species that were rare and endangered in Victoria, 72 species with isolated occurrences in the Portland Region, and 53 species typically from northern parts of Victoria. A high proportion of the reserve is covered by EVC classes rated as 'endangered', 'vulnerable' or 'depleted'.

The reserve is, without doubt, one of the best repositories of botanic diversity in the region, although badly compromised by weed invasion along the river (weeds including *Sparaxis bulbifera*) and the impact of broad-scale spraying to control an agricultural weed, Cape Tulip. The greater southern portion of the reserve remains relatively free of other weeds, although African Weed Orchid was seen there in 2005.

Apart from its floristic value, this reserve is a critical "stepping stone" of native vegetation between the Black Range/Rocklands/Grampians reserves and the remnant flora blocks of Little Youngs State Forest and Jilpanger Flora Reserve to the NW, and the Arapiles-Tooan SP further north. Further south is Claude Austin State Forest near the Rocklands Reservoir. It is a vital "corridor" for the movement of birds, particularly given the presence of water in the reserve.

The Land Conservation Council (LCC) engaged Portland botanist Cliff Beauglehole in Oct.-Nov. 1975 to carry out a botanical survey of this area (among many other areas of Crown land), then known as the Kanagulk State Forest. He performed the survey in Oct.-Nov. 1975, listing 257 species, but time did not permit an exploration of the NE corner.

Despite many submissions from conservation groups and Beauglehole for a Flora Reserve, the LCC recommended in the final report of May 1982 (South Western Area District 2) "that it be gazetted as the **Kanagulk Streamside Reserve**, and that grazing be withdrawn (at least temporarily) from the reserve".

The Government accepted the Streamside Reserve recommendation but despite this change of status it was still being grazed – and degraded – by sheep in 1987. HFNC's submission to the LCC had supported their proposal in the preliminary report, while stating that "*in view of the floristic values we believe that a stronger stance should have been taken on the issue of grazing in the area*". HFNC made the point that "grazing here cannot be said to be a management tool to decrease fire hazard – indeed the area needs a fire to rejuvenate it. There is no evidence of fire occurring there for at least 20 years and probably more – now there is simply no fine fuel to carry a fire".

Flora

Cliff Beauglehole was greatly impressed with the native flora and in 1984 he strongly recommended that it become a Flora Reserve (see Beauglehole 1984). He re-visited and examined the NE area on 16 June 1984 and added 41 species to the list; the total for the reserve then being 299 species (242 native species and 57 exotics). Further species were noted in visits on 9 & 24 August 1987, then 1 October, 1 November, 7 November 1989, and 21 January 1990 – the tally being 353 sp. (279 native & 74 alien).

HFNC has added further species to the list in 2006, 2007, 2008, 2009, 2011 & 2013 (see Table 1); the total in 2015 is 418, with 87 exotic and 331 native species.

In 1984 Beauglehole noted the following:

- Sheep ranged over the entire area, spreading exotic weeds and preventing regeneration of native species, among which were 8 rare and endangered in Victoria, 72 species with isolated occurrences in the Portland Region of Dept. Cons. Forests & Lands, 53 species typically from northern parts of Victoria, and 15 species present only in saline areas.
- Salting was a significant problem in the central area the effect of grazing sheep was to prevent regeneration of trees which might help contain the problem, however the main cause had been the ill-advised clearing of the catchment block immediately to the south of the reserve.
- Gully and sheet erosion was also a significant problem and a danger to the conservation value of the reserve. Livestock grazing and unregulated vehicular traffic (day visitors, campers, fishermen, recreational 4WD driving and trail bikes) contributed substantially to the problem.
- There were 12 serious exotic weed species that should be controlled or eradicated before they extensively damaged the native flora status of the reserve.

The *Western Victoria Conservation Committee*, of which Cliff was Chairman and Hilda Beauglehole, Leila Huebner, John Cleary, Hilary Turner, Andrew Pritchard, Carolyn Hodges and Rod Bird were members, agitated for many years to have grazing removed. Following the first visit to the Reserve by the committee on 9 August 1987 several articles in local newspapers and assistance of departmental officers (Trevor Ritchie and others), grazing licenses were finally cancelled in late 1987.

Visits by the committee in 1 October 1989, 21 January 1990 and 11 November 1990 confirmed that "there were now tens of thousands of seedlings of the four eucalypt species present" (before grazing was removed there was no regeneration). There was regeneration of the regionally rare *Callitris gracilis* outside of the fenced enclosure on Pine Ridge and *Melaleuca neglecta* in the saline flats. *Allocasuarina verticillata* and *Allocasuarina luehmannii*, was also regenerating, having been virtually eliminated from the reserve by past management practices.

A fire in January 2005 was started in the NW corner of the reserve, at a camp site by the river. It was not acted upon in time to prevent a great deal of damage to the reserve, with many of the large, old eucalypts in the western half of the reserve being severely damaged, burned down or bulldozed later. That was a very serious loss and could have been averted by earlier action to extinguish fires in burning trees but, as acknowledged later by a DSE Fire Controller from Horsham, that has not been an operational practice of either DSE or the CFA. After criticism by HFNC of preventable damage there and in the Black Range (Bird 2006), DSE changed its approach in at least one case. That example relates to events at Bryans Swamp after the fire of 30 November 2006, where DSE prevented about 100 old trees from being bulldozed (see *Victoria Point Fire – Bryan Swamp Horsham Fire District Fire 44 2006/07 Season. A case study* (DSE and CFA).

One positive from the fire of January 2005 at Fulham was a spectacular fire-induced flowering of grassland and heathland species, with several "new" species apparent. Red-beak Orchids were thick in parts, with up to 200 plants per square metre seen between the river bend and the track at the SW end. Lilies and orchids were abundant across the grassland areas on both sides of the track leading from Edgewood Rd to the river.

Fauna

Mammals

To our knowledge, no systematic survey has been done. Eastern Grey Kangaroo (*Macropus giganteus*), Red-necked Wallaby (*Macropus rufogriseus*) and Black Wallaby (*Wallabia bicolor*) occur in the reserve. Grey Kangaroos are present in quite large numbers but the Red-necked Wallaby appears now to be less common than the Black Wallaby. A Black Wallaby was first seen in October 1987 (Bird 1992). Red-necked Wallabies were seen in April 2006, Sept. 2008, and Oct 2010-2015.

In 2006 a Sugar Glider (*Petaurus breviceps*) tail was found beneath a Yellow Box tree in the SW section of the reserve. Another animal was photographed at the SW river bend in Sept. 2011. Brush-tail Possum (*Trichosurus vulpecula*) are common, while the Ring-tailed Possum (*Psedocheirus peregrinus*) probably also occurs here.

In May 2007 a Birds Australia group saw a Yellow-footed Antechinus (*Antechinus flavipes*) sunning in a River Red Gum spout near the river. An early report in the HFNC Minutes of Meeting in Feb. 1983 (Kevin Lakeman, 01/01/1983) also noted Common Dunnart (*Sminthopsis murina*).

Introduced mammals include Red Fox (*Vulpes vulpes*) but rabbits do not appear to be present. Echidna (*Tachyglossus aculeatus*) are also present, along with Water Rat (*Hydromys chrysogaster*), seen on 15 Sept. 2007. We saw 3 Platypus (*Ornithorhynchus anatinus*) in the Fulham Pool on 13 Sept. 2008 and one in 2010 and 2011.

Birds

2007 – 50 species were seen in September, including "new" birds in Flame Robin, Rufous Songlark and Powerful Owl.

2008 – 63 species were seen, including "new" birds in White-throated Gerygone, Australasian Shoveler, Black-fronted Dotterel, Black-tailed Native Hen, Brown Goshawk, Little Raven, Tawny Frogmouth and White-winged Triller.

2009 – 43 species were seen (Powerful Owls heard), incl. a 'new' bird in Blue-winged Parrot (total then 110 species).

2010 – 60 species were seen or heard (Southern Boobook), including 5 'new' birds: Little Black Cormorant, Crested Pigeon, Spiny-cheeked Honeyeater, Red-tailed Black-cockatoo (4 seen in Brown Stringybarks) and Little Eagle (total then 115 species (see Table 2).

2015 – the number of species recorded rose to 126 with the recording of Straw-necked Ibis in 2011, Australian Pelican, Great Cormorant & Chestnut Teal in 2013, Australian White Ibis, Intermediate Egret, Yellow-billed Spoonbill & Royal Spoonbill in 2014, and Nankeen Night-heron in 2015.

Reptiles

No survey has been done. Shingleback lizards are often seen and, on two occasions, the Common Bearded Dragon has been seen. The only snake observed was a small, unidentified species found among fallen branches.

Present threats to the reserve:

- <u>Cape Tulip</u> the impact of broad-scale spraying to control this pest plant has done much damage in recent years; careless operators do not employ satisfactory spot-spraying techniques. It is clear that large areas of vegetation have been blitzed of native species by the broad-scale spraying with, ironically, Cape Tulip, Sparaxis and pasture weeds the main beneficiaries of the bare ground created. The herbicide-wiping approach HFNC have used has controlled the weed but not eliminated it and there are still tens of thousands of plants emerging each year.
- <u>African Weed Orchid</u> this had arrived in about 2003 and had a hold on parts of the Western end. The problem continues, with plants seen each year to 2015..

- <u>Sparaxis (Harlequin flower)</u> this weed is spreading in the reserve, mainly along the river, the road fringes and track area in the western part of the reserve. Urgent spot-spraying action was needed to prevent it dominating the native ground flora in the presently unaffected or lightly infested areas. The river margins remain infested but much of the problem south of River Track has been controlled by efforts of HFNC.
- <u>Wild Gladiolus</u> this is a problem that has increased since 2006, with major expansion from the river side to the heathland south of the River Tk and Old Railway Bridge Tk.
- <u>Off-road vehicular traffic</u> trail bikes and 4WD recreational vehicles travel at will across the reserve on weekends and public holidays and constitute a significant threat to flora, through spread of weeds and disease. DPI and other staff monitoring ground water bores at several points in the reserve also contributed to the damage (at least pre-2010) by driving along roads closed in winter and then off-road to access the bores. All bores are within short walking distance from navigable tracks that are open in winter.
- <u>Proliferation of tracks</u> there is currently an attempt to prevent traffic through the central wet section along the river during winter months but that is unlikely to be heeded and there will be a continuation of vehicles going off-road to get around boggy spots (there is access to both ends of the reserve). HFNC is convinced that the only practical solution, in the absence of regular supervision of the reserve, is to upgrade the river track so that there is no need for any vehicle to depart from it. There is an urgent need for <u>signage</u> requesting that vehicles stay on designated tracks to prevent the destruction of native vegetation from wheels and the spread of Cape Tulip and Sparaxis seed and *Phytopthora* dieback fungus in transferred mud.
- <u>Fire</u> a ban on fires from November to April (the fire season) would be effective in reducing that danger to this (and other) reserve, State Forest and National Parks in SW Victoria.
- <u>Phytophthora</u> dieback is not known to be present; care is needed to prevent it entering.
- <u>Campers</u> much of the river foreshore areas have been degraded and there needs to be some restriction to prevent further loss of the habitat areas south from the River Tk banks.
- <u>Horses</u> this reserve has become a popular place for groups to bring large numbers of horses. They roam the entire reserve, even in winter. There are no restrictions on where the animals are 'stabled' and thus they degrade areas of native vegetation that had been in good condition.
- <u>Wood cutting</u> evidence of wood removal on a large scale was noted in September 2008. Campers also have large fires to burn wood cut from the reserve.
- <u>Toilets</u> there are none and this is a serious problem because the reserve has a large visitor presence. The appeal of the riverside areas is being degraded.

Future of the reserve

In October 2005 HFNC had a campout at Fulham and recognized the threat of environmental weeds and inadequate management of human activities in the reserve, and resolved to offer assistance to Parks Victoria (see Appendix 1). Our main efforts were to concentrate on eradicating Sparaxis and Cape Tulip from the important botanic areas south of the River Track. Failure to do that at a stage when the infestation there was manageable would have meant the certain longer-term degradation of the entire reserve. Whether that objective can be met remains to be seen.

HFNC had the following objectives when beginning work at Fulham:

- Control of exotic weeds (Phalaris, Cocksfoot, Cape Tulip, Sparaxis, Wild Gladiolus, African Weed Orchid, etc.) in the main area of reserve south of the River Track (in the western half of the reserve). HFNC, in consultation with Parks Victoria, has undertaken to locate and carefully spot-spray or herbicide-wipe those weeds in the spring of 2006 and thereafter.
- Suggest ways of reducing off-road damage to the reserve by visitors and their vehicles.
- Continue to monitor the flora of the reserve, updating that list and list of birds and other fauna.
- Have the botanic significance of this reserve recognized and therefore ultimately gazetted as a <u>Flora Reserve</u>, to give it greater protection (see Appendix 2).

References

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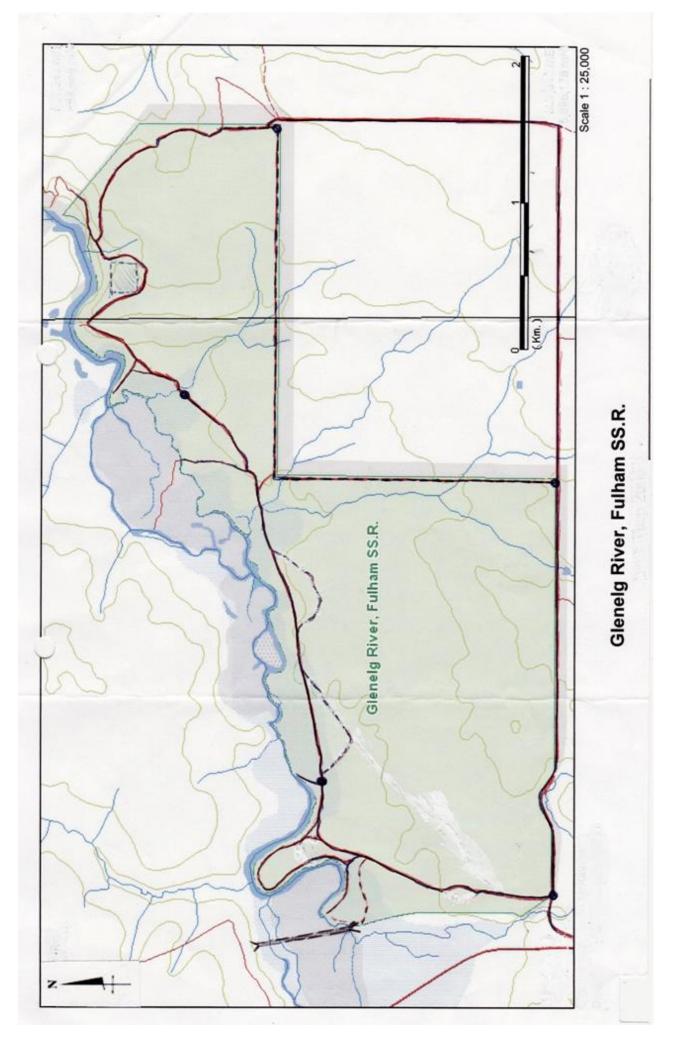


Table 1. Fulham Streamside Reserve Vascular Flora

Records of AC (Cliff) Beauglehole (1975 to 1990) and others to 2013 – compiled by PR Bird (records other than by ACB are noted; blank dates represent ACB records in Oct-Nov 1975)

	Sig.	Botanic Name	Common Name	Date Observer	Notes
1	Sig.	Acacia acinacea	Gold-dust Wattle	9 Aug 87	Notes
	(*)	Acacia baileyana	Cootamundra Wattle	9 Aug 87	
$\frac{2}{3}$	()	Acacia brownei	Heath Wattle	9 Aug 87	
4		Acacia implexa	Lightwood	16 Jun 87	
5		Acacia mearnsii	Black Wattle	10 001 07	
6		Acacia melanoxylon	Blackwood	16 Jun 87	
7		Acacia myrtifolia	Myrtle Wattle	16 Jun 87	
7 8		Acacia paradoxa	Hedge Wattle	10 001 07	
9		Acacia pycnantha	Golden Wattle	16 Jun 87	
10		Acacia ulicifolia	Juniper Wattle	9 Aug 87	
11		Acacia verniciflua	Varnish Wattle	, , , , , , , , , , , , , , , , , , , ,	
12		Acaena anserinifolia	Bidgee-widgee	16 Jun 87	
13		Acaena echinata	Sheep's Burr	16 Jun 87	
14		Acianthus exertus	Midge Orchid	~2004 GD & HA	
15		Acrotriche serrulata	Honey-pots	16 Jun 87	
16		Agrostis avenacea	Common Blown-grass		
17	RT+	Agrostis limitanea	Blown-grass	16 Jun 87	sole Vic rec.
18	*	Aira cupaniana	Hair-grass		*
19	RT	Allocasuarina luehmannii	Bull-oak	16 Jun 87	3 trees in 1987
20		Allocasuarina muelleriana	Slaty Sheoak	11 Aug 87	
21		Allocasuarina verticillata	Drooping Sheoak		
22		Amphibromus neesii	Swamp Wallaby-grass		
23		Amphipogon strictus	Grey-beard Grass		
24		Amyema miquelli	Box Mistletoe		
25		Amyema pendulum	Drooping Mistletoe		
26	*	Anagallis arvensis	Pimpernel		
27	*	Anagallis minima	Chaffweed	01 Nov 89	
28		Angiathus preissianus	Salt Angianthus		
29		Anogramma leptophylla	Annual Fern	16 Jun 87	
30	*	Anthoxanthum odoratum	Sweet Vernal-grass	16 Jun 87	
31		Aphelia gracilis	Slender Aphelia	16 Jun 87	
32		Apium annuum	Annual Celery	21 Jan 90	
33		Apium prostratum	Sea-cellery	21 Jan 90	In isolated spring
34	*	Arctotheca calendula	Cape Weed		
35		Arthropodium minus	Small Vanilla-lily	01 Nov 89	
36		Arthropodium sp. aff strictus	- Chocolate-lily		
37		Arthropodium strictus	Common Chocolate-lily		
		Asperula conferta	Common Woodruff	24 Aug 87	
38			Flama Heath		
38 39		Astroloma conostephioides	Flame Heath		
38 39 40		Astroloma humifusum	Cranberry Heath		
38 39 40 41		Astroloma humifusum Austrodanthonia caespitosa	Cranberry Heath Common Wallaby-grass	16 Jun 87	
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$\begin{array}{r} 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 56\\ 57\\ \end{array}$		Astroloma humifusum Austrodanthonia caespitosa Austrodanthonia geniculata Austrodanthonia racemosa Austrodanthonia setacea Austrostipa densiflora Austrostipa densiflora Austrostipa sp 1 Austrostipa sp 1 Austrostipa sp 2 Avelinia michelii Avena fatua Banksia marginata Banksia ornata Baumia articulata Baumia juncea Baumia rubiginosa Billardiera cymosa	Cranberry Heath Common Wallaby-grass Kneed Wallaby-grass - Wallaby-grass Bristly Wallaby-grass Dense Spear-grass - Spear-grass - Spear-grass - Spear-grass Avellinia Wild Oat Silver Banksia Desert Banksia Desert Banksia Jointed Twig-rush Bare Twig-rush Soft Twig-rush Sweet Apple-berry Waxy Boronia	16 Jun 87 16 Jun 87 7 Nov 89 16 Jun 87 21 Jan 90 PRB 21 Jan 90 11 Nov 90 HT	Regen. in 2005
$\begin{array}{r} 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ \end{array}$		Astroloma humifusum Austrodanthonia caespitosa Austrodanthonia geniculata Austrodanthonia racemosa Austrodanthonia setacea Austrostipa densiflora Austrostipa densiflora Austrostipa sp 1 Austrostipa sp 1 Austrostipa sp 2 Avelinia michelii Avena fatua Banksia marginata Banksia ornata Baumia articulata Baumia juncea Baumia rubiginosa Billardiera cymosa Boronia nana Bossiaea prostrata	Cranberry Heath Common Wallaby-grass Kneed Wallaby-grass - Wallaby-grass Bristly Wallaby-grass Dense Spear-grass - Spear-grass - Spear-grass - Spear-grass Avellinia Wild Oat Silver Banksia Desert Banksia Desert Banksia Jointed Twig-rush Bare Twig-rush Soft Twig-rush Sweet Apple-berry Waxy Boronia Creeping Bossiaea	16 Jun 87 16 Jun 87 7 Nov 89 16 Jun 87 21 Jan 90 PRB 21 Jan 90 11 Nov 90 HT 24 Aug 87	
$\begin{array}{r} 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 59\\ \end{array}$		Astroloma humifusum Austrodanthonia caespitosa Austrodanthonia geniculata Austrodanthonia racemosa Austrodanthonia setacea Austrostipa densiflora Austrostipa elegantissima Austrostipa sp 1 Austrostipa sp 2 Avelinia michelii Avena fatua Banksia marginata Banksia ornata Baumia articulata Baumia ijuncea Baumia rubiginosa Billardiera cymosa Boronia nana Bossiaea prostrata Brachyloma ciliatum	Cranberry Heath Common Wallaby-grass Kneed Wallaby-grass - Wallaby-grass Bristly Wallaby-grass Dense Spear-grass - Spear-grass - Spear-grass - Spear-grass Avellinia Wild Oat Silver Banksia Desert Banksia Desert Banksia Jointed Twig-rush Bare Twig-rush Soft Twig-rush Sweet Apple-berry Waxy Boronia Creeping Bossiaea Fringed Brachyloma	16 Jun 87 16 Jun 87 7 Nov 89 16 Jun 87 21 Jan 90 PRB 21 Jan 90 11 Nov 90 HT	
$\begin{array}{r} 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 59\\ 60\\ \end{array}$		Astroloma humifusum Austrodanthonia caespitosa Austrodanthonia geniculata Austrodanthonia racemosa Austrodanthonia setacea Austrostipa densiflora Austrostipa elegantissima Austrostipa sp 1 Austrostipa sp 2 Avelinia michelii Avena fatua Banksia marginata Banksia ornata Baumia articulata Baumia rubiginosa Billardiera cymosa Boronia nana Bossiaea prostrata Brachyloma ciliatum	Cranberry Heath Common Wallaby-grass Kneed Wallaby-grass Bristly Wallaby-grass Dense Spear-grass Feather Spear-grass - Spear-grass - Spear-grass Avellinia Wild Oat Silver Banksia Desert Banksia Jointed Twig-rush Bare Twig-rush Soft Twig-rush Sweet Apple-berry Waxy Boronia Creeping Bossiaea Fringed Brachyloma Daphne Heath	16 Jun 87 16 Jun 87 7 Nov 89 16 Jun 87 21 Jan 90 PRB 21 Jan 90 11 Nov 90 HT 24 Aug 87	
$\begin{array}{r} 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 59\\ 60\\ 61\\ \end{array}$	*	Astroloma humifusum Austrodanthonia caespitosa Austrodanthonia geniculata Austrodanthonia racemosa Austrodanthonia setacea Austrodanthonia setacea Austrostipa densiflora Austrostipa elegantissima Austrostipa sp 1 Austrostipa sp 2 Avelinia michelii Avena fatua Banksia ornata Baumia articulata Baumia ijuncea Baumia rubiginosa Billardiera cymosa Boronia nana Bossiaea prostrata Brachyloma ciliatum Brachyloma daphnoides	Cranberry Heath Common Wallaby-grass Kneed Wallaby-grass Bristly Wallaby-grass Dense Spear-grass Feather Spear-grass - Spear-grass - Spear-grass Avellinia Wild Oat Silver Banksia Desert Banksia Desert Banksia Jointed Twig-rush Bare Twig-rush Soft Twig-rush Sweet Apple-berry Waxy Boronia Creeping Bossiaea Fringed Brachyloma Daphne Heath Rayless Daisy	16 Jun 87 16 Jun 87 7 Nov 89 16 Jun 87 21 Jan 90 PRB 21 Jan 90 11 Nov 90 HT 24 Aug 87	
$\begin{array}{r} 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 59\\ 60\\ 61\\ 62\\ \end{array}$		Astroloma humifusum Austrodanthonia caespitosa Austrodanthonia geniculata Austrodanthonia racemosa Austrodanthonia racemosa Austrodanthonia setacea Austrostipa densiflora Austrostipa elegantissima Austrostipa sp 1 Austrostipa sp 2 Avelinia michelii Avena fatua Banksia ornata Baumia articulata Baumia ijuncea Baumia rubiginosa Billardiera cymosa Boronia nana Bossiaea prostrata Brachyloma ciliatum Brachyloma daphnoides Brachyscome readeri	Cranberry Heath Common Wallaby-grass Kneed Wallaby-grass Bristly Wallaby-grass Dense Spear-grass Feather Spear-grass - Spear-grass - Spear-grass Avellinia Wild Oat Silver Banksia Desert Banksia Desert Banksia Jointed Twig-rush Bare Twig-rush Soft Twig-rush Sweet Apple-berry Waxy Boronia Creeping Bossiaea Fringed Brachyloma Daphne Heath Rayless Daisy Reader's Daisy	16 Jun 87 16 Jun 87 7 Nov 89 16 Jun 87 21 Jan 90 PRB 21 Jan 90 11 Nov 90 HT 24 Aug 87	
$\begin{array}{r} 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 59\\ 60\\ 61\\ 62\\ 63\\ \end{array}$	*	Astroloma humifusum Austrodanthonia caespitosa Austrodanthonia geniculata Austrodanthonia racemosa Austrodanthonia setacea Austrodanthonia setacea Austrostipa densiflora Austrostipa elegantissima Austrostipa sp 1 Austrostipa sp 2 Avelinia michelii Avena fatua Banksia ornata Baumia articulata Baumia rubiginosa Billardiera cymosa Boronia nana Bossiaea prostrata Brachyloma ciliatum Brachyloma daphnoides Brachyscome readeri Brachyscome readeri	Cranberry Heath Common Wallaby-grass Kneed Wallaby-grass Bristly Wallaby-grass Dense Spear-grass Feather Spear-grass - Spear-grass - Spear-grass Avellinia Wild Oat Silver Banksia Desert Banksia Desert Banksia Jointed Twig-rush Bare Twig-rush Soft Twig-rush Sweet Apple-berry Waxy Boronia Creeping Bossiaea Fringed Brachyloma Daphne Heath Rayless Daisy Reader's Daisy Small Swamp Daisy	16 Jun 87 16 Jun 87 7 Nov 89 16 Jun 87 21 Jan 90 PRB 21 Jan 90 11 Nov 90 HT 24 Aug 87	
$\begin{array}{r} 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 59\\ 60\\ 61\\ 62\\ \end{array}$	* 	Astroloma humifusum Austrodanthonia caespitosa Austrodanthonia geniculata Austrodanthonia racemosa Austrodanthonia racemosa Austrodanthonia setacea Austrostipa densiflora Austrostipa elegantissima Austrostipa sp 1 Austrostipa sp 2 Avelinia michelii Avena fatua Banksia ornata Baumia articulata Baumia ijuncea Baumia rubiginosa Billardiera cymosa Boronia nana Bossiaea prostrata Brachyloma ciliatum Brachyloma daphnoides Brachyscome readeri	Cranberry Heath Common Wallaby-grass Kneed Wallaby-grass Bristly Wallaby-grass Dense Spear-grass Feather Spear-grass - Spear-grass - Spear-grass Avellinia Wild Oat Silver Banksia Desert Banksia Desert Banksia Jointed Twig-rush Bare Twig-rush Soft Twig-rush Sweet Apple-berry Waxy Boronia Creeping Bossiaea Fringed Brachyloma Daphne Heath Rayless Daisy Reader's Daisy	16 Jun 87 16 Jun 87 7 Nov 89 16 Jun 87 21 Jan 90 PRB 21 Jan 90 11 Nov 90 HT 24 Aug 87	

	*			161 07		
66 67	*	Bromus diandrus Bromus hordeaceus	Great Brome Soft Brome	16 Jun 87 16 Jun 87		
68	*	Bromus lanceolatus	Mediterraneun Brome	21 Jan 90		
69	*	Bromus rubens	Red Brome	21 Jail 90		
70		Brunonia australis	Blue Pincushion			
71		Bulbine bulbosa	Bulbine Lily			
72		Bulbine semibarbata	Leek Lily			
73		Burchardia umbellata	Milkmaids			
74		Bursaria spinosa	Sweet Bursaria			
75		Caesia caliantha	Blue Grass-lily			
76		Caladenia carnea	Pink Fingers			
77		Caladenia cucullata	Hooded Caladenia	7 Nov 89		
78		Caladenia formosa	Crimson Spider-orchid	21 Sep 13	RZ	W of Entry Tk
79		Caladenia latifolia	Pink Fairy	~2004	GD & HA	
80		Caladenia patersonii	Common Spider-orchid	24 Sep 11	DL	Entry Tk, N end
81		Caladenia pusillus	Tiny Fingers	2009	PRB	E, marsh fringe
82		Caladenia tentaculata	Mantis Spider Orchid			
83		Calandrinia granulifera	Pigmy Purslane			
84		Callitriche sp.	Water Starwort	24 Aug 87		
85		Callitris gracillis	Slender Cypress	16 Jun 87	DDD	1 4 337 1
86		Callitris rhomboidea	Oyster Bay Cypress	28 Sep 06	PRB	1 tree,W mid area
87		Calochilus robertsonii	Purplish Beard Orchid Common Fringe-myrtle	7 Nov 89		
88 89	*	Calytrix tetragona Carduus pycnocephalus	<u> </u>	24 4 07		
<u>89</u> 90	*	Carduus pycnocephalus Carduus tenuiflorus	Slender Thistle - Thistle	24 Aug 87 7 Nov 89		
<u>90</u> 91	•	Carduus tenuifiorus Carex appressa	- Inistie Tall Sedge	/ 1107 99		
91		Carex appressa Carex tereticaulis	- Sedge			
92		Carpobrotus modestus	Inland Pigface	13 Sep 08	PRR	1 plant N-S ck
94		Cassytha glabella	Slender Dodder-laurel	15 Sep 08	TKD	I plant IV-5 CK
95	*	Centaurium tenuiflorum	- Centaury			
96		Centipeda cunninghamii	Common Sneezeweed			
97		Centrolepis aristata	Pointed Centrolepis			
98		Centrolepis cephaloformis	Cushion Centrolepis			
99		Centrolepis glabra	Smooth Centrolepis			
100		Centrolepis polygyna	Wiry Centrolepis			
101		Centrolepis strigosa	Hairy Centrolepis			
102	*	Cerastium glomeratum	Common Mouse-ear Chickweed	16 Jun 87		
103		Chaemescilla corymbosa	Blue Stars	24 Aug 87		
104		Cheilanthes austrotenuifolia	Rock Fern	16 Jun 87		
105		Cheilanthes sieberi	- Fern	9 Aug 87		
106		Chenopodium glaucum	Glaucous Goosefoot			
107		Chiloglottis trapezoides	Dainty Bird-orchid	2005	AP	N Edgewood Rd
108		Chiloglottis x pescottiana	Dainty Bird-orchid hybrid	2005	AP	N Edgewood Rd
109		Chorizandra enodis	Black Bristle-rush			
110		Chrysocephalum apiculatum	Common Everlasting	24 4 97		
$\frac{111}{112}$	*	Chrysocephalum leucopsidium	Satin Everlasting	24 Aug 87		
112	*	Cicendia filiformis Cirsium vulgare	Slender Cicendia Spear Thistle			
	•			16 Jun 97		
		ĕ	•	16 Jun 87	DDD	1 plant SW
114		Clematis microphylla	Small-leaved Clematis	16 Jun 87 14 Sep 06	PRB	1 plant, SW
115	RT	Clematis microphylla Comesperma calymega	Small-leaved Clematis Blue-spike Milkwort		PRB	1 plant, SW
115 116	RT	Clematis microphylla Comesperma calymega Comesperma polygaloides	Small-leaved Clematis Blue-spike Milkwort Small Milkwort		PRB	1 plant, SW
115 116 117	RT	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile	Small-leaved Clematis Blue-spike Milkwort Small Milkwort Love Creeper		PRB	1 plant, SW
115 116	RT	Clematis microphylla Comesperma calymega Comesperma polygaloides	Small-leaved Clematis Blue-spike Milkwort Small Milkwort Love Creeper Pink Bindweed	14 Sep 06	PRB	1 plant, SW
115 116 117 118	RT	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens	Small-leaved Clematis Blue-spike Milkwort Small Milkwort Love Creeper		PRB GD & HA	1 plant, SW
115 116 117 118 119	RT	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa	Small-leaved Clematis Blue-spike Milkwort Small Milkwort Love Creeper Pink Bindweed Common Correa	14 Sep 06		1 plant, SW
$ \begin{array}{r} 115 \\ 116 \\ 117 \\ 118 \\ 119 \\ 120 \\ \end{array} $	RT	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans	Small-leaved Clematis Blue-spike Milkwort Small Milkwort Love Creeper Pink Bindweed Common Correa Sharp Midge Orchid	14 Sep 06		1 plant, SW
115 116 117 118 119 120 121	RT 	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater Buttons	14 Sep 06 16 Jun 87 ~2004		1 plant, SW
$ \begin{array}{r} 115 \\ 116 \\ 117 \\ 118 \\ 119 \\ 120 \\ 121 \\ 122 \\ 123 \\ 124 \\ 124 $	*	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon Cotula	14 Sep 06 16 Jun 87 ~2004		1 plant, SW
$\begin{array}{r} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ \end{array}$		Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part Crassula	14 Sep 06 16 Jun 87 ~2004		1 plant, SW
$\begin{array}{r} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ \end{array}$	*	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading Crassula	14 Sep 06 16 Jun 87 ~2004		1 plant, SW
$\begin{array}{r} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ \end{array}$	*	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula exerta	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting Crassula	14 Sep 06 16 Jun 87 ~2004 16 Jun 87		1 plant, SW
$\begin{array}{r} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ \end{array}$	*	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula exerta Crassula kelmsii	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSwamp Crassula	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87		1 plant, SW
$\begin{array}{r} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ \end{array}$	* * RT+	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula exerta Crassula kelmsii Crassula sieberiana	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSwamp CrassulaSieber Crassula	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87 16 Jun 87		1 plant, SW
$\begin{array}{c} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ 130\\ \end{array}$	* * RT+	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula alata Crassula decumbens Crassula exerta Crassula kelmsii Crassula sieberiana Crassula sieberiana	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSwamp CrassulaSieber CrassulaDandelion Hawkesbeard	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87		1 plant, SW
$\begin{array}{c} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ 130\\ 131\\ \end{array}$	* * RT+ *	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula decumbens Crassula kerta Crassula kerta Crassula kerta Crassula sieberiana Crepis vesicaria Critesion hystriax	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSieber CrassulaSieber CrassulaDandelion HawkesbeardMediterranean Barley-grass	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87 16 Jun 87 11 Nov 90		1 plant, SW
$\begin{array}{c} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ 130\\ 131\\ 132\\ \end{array}$	* * RT+	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula decumbens Crassula kerta Crassula kerta Crassula kelmsii Crassula sieberiana Crepis vesicaria Critesion hystriax Critesion murinum	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSieber CrassulaSieber CrassulaDandelion HawkesbeardMediterranean Barley-grassCommon Barley-grass	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87 16 Jun 87 11 Nov 90 7 Nov 89		1 plant, SW
$\begin{array}{c} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ 130\\ 131\\ 132\\ 133\\ 133\\ \end{array}$	* * RT+ *	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula decumbens Crassula exerta Crassula kelmsii Crassula sieberiana Crepis vesicaria Critesion hystriax Critesion murinum Cymbonotus preissianus	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSieber CrassulaSieber CrassulaDandelion HawkesbeardMediterranean Barley-grassCommon Barley-grassAustral Bear's Ears	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87 16 Jun 87 11 Nov 90		1 plant, SW
$\begin{array}{c} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ 130\\ 131\\ 132\\ 133\\ 134\\ \end{array}$	* * RT+ *	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula decumbens Crassula kerta Crassula kerta Crassula sieberiana Crepis vesicaria Critesion hystriax Critesion murinum Cymbonotus preissianus Cynoglossum australe	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSieber CrassulaSieber CrassulaDandelion HawkesbeardMediterranean Barley-grassCommon Barley-grassAustral Bear's EarsAustralian Hound's Tongue	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87 16 Jun 87 11 Nov 90 7 Nov 89		1 plant, SW
$\begin{array}{c} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ 130\\ 131\\ 132\\ 133\\ 134\\ 135\\ \end{array}$	* RT+ *	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula decumbens Crassula exerta Crassula helmsii Crassula sieberiana Crepis vesicaria Critesion hystriax Critesion murinum Cymbonotus preissianus Cynoglossum australe Cynoglossum suaveolens	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSieber CrassulaSieber CrassulaDandelion HawkesbeardMediterranean Barley-grassCommon Barley-grassAustral Bear's EarsAustralian Hound's TongueSweet Hound's Tongue	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87 16 Jun 87 11 Nov 90 7 Nov 89 11 Aug 87		1 plant, SW
$\begin{array}{c} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ 130\\ 131\\ 132\\ 133\\ 134\\ 135\\ 136\\ \end{array}$	* * RT+ *	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula decumbens Crassula kerta Crassula kerta Crassula sieberiana Crepis vesicaria Critesion hystriax Critesion murinum Cymbonotus preissianus Cynoglossum australe Cynoglossum suaveolens	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSieber CrassulaSieber CrassulaDandelion HawkesbeardMediterranean Barley-grassCommon Barley-grassAustral Bear's EarsAustralian Hound's TongueSweet Hound's TongueRough Dog's Tail	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87 16 Jun 87 11 Nov 90 7 Nov 89 11 Aug 87 16 Jun 87		1 plant, SW
$\begin{array}{c} 115\\ 116\\ 117\\ 118\\ 119\\ 120\\ 121\\ 122\\ 123\\ 124\\ 125\\ 126\\ 127\\ 128\\ 129\\ 130\\ 131\\ 132\\ 133\\ 134\\ 135\\ \end{array}$	* RT+ *	Clematis microphylla Comesperma calymega Comesperma polygaloides Comesperma volubile Convolvulus erubescens Correa reflexa Corunastylis despectans Corybas incurvus Cotula australis Cotula coronopifolia Craspedia glauca Crassula alata Crassula decumbens Crassula decumbens Crassula exerta Crassula helmsii Crassula sieberiana Crepis vesicaria Critesion hystriax Critesion murinum Cymbonotus preissianus Cynoglossum australe Cynoglossum suaveolens	Small-leaved ClematisBlue-spike MilkwortSmall MilkwortLove CreeperPink BindweedCommon CorreaSharp Midge OrchidSlaty Helmet-orchidCommon CotulaWater ButtonsCommon Billy-buttonsThree-part CrassulaSpreading CrassulaLarge-fruiting CrassulaSieber CrassulaSieber CrassulaDandelion HawkesbeardMediterranean Barley-grassCommon Barley-grassAustral Bear's EarsAustralian Hound's TongueSweet Hound's Tongue	14 Sep 06 16 Jun 87 ~2004 16 Jun 87 16 Jun 87 16 Jun 87 11 Nov 90 7 Nov 89 11 Aug 87		1 plant, SW

139	Cyperus tenellus	Tiny Flat-sedge			
140	Cyrtostylis reniformis	Small Gnat Orchid	~2004	GD & HA	
141 *	Dactylis glomeratum	Cocksfoot	2005	PRB	
142	Daucus glochidiatus	Austral Carrot			
143	Daviesia arenaria	- Bitter-pea	9 Aug 87		
144	Deyeuxia quadriseta	Reed Bent-grass			
145	Dianella revoluta	Black-anther Flax-lilly	9 Aug 87		
146	Dianella longifolia	Pale Flax-lily	Oct 06	PRB	SW area
147	Dichelachne crinita	Long-hair Plume-grass			
148	Dichondra repens	Kidney-weed			
149 150	Dillwynia glaberrima Dillwynia hispida	Smooth Parrot-pea Red Parrot-pea			
150	Dillwynia sericea	Showy Parrot-pea			
151	Dipodium punctatum	Hyacinth Orchid	21 Jan 90		
152 *	Disa bracteata	South African Orchid	~2003	GD & HA	
155	Distichlis distichophylla	Australian Salt-grass	2005	OD a III	
155 *	Dittrichia graveolens	Stinkwort			
156	Diuris chryseopsis	Golden Moth Orchid	~2004	GD & HA	SE cnr
157	Diuris orientis	Wallflower Orchid	~2004	GD & HA	
158	Diuris pardina	Leopard Orchid	1 Nov 89		
159	Diuris sulphurea	Tiger Orchid			
160	Drosera glanduligera	Scarlet Sundew			
161	Drosera peltata	Pale Sundew			
162	Drosera pygmea	Tiny Sundew	24 Aug 87		
163	Drosera whittakeri	Scented Sundew			
164 *	Ehrharta calycina	Perennial Veldt-grass	7 Nov 89		
165	Eleocharis acuta	Common Spike-rush			
166	Eleocharis pusilla	Small Spike-rush			
<u>167</u> 168	Eleocharis sphacelata Elymus scaber	Tall Spike-rush Common Wheat-grass			
168	Epilobium cinerium	Variable Willow-herb			
170 *	Erodium cicutarium	Common Heron's-bill	16 Jun 87		
170	Eryngium ovinum	Blue Devil	16 Jun 87		
172	Eucalyptus aff. arenacea	aff. Desert Stringybark	Jan 2009	DP	NW cnr (penin.)
173	Eucalyptus baxteri	Brown Stringybark	U un 2 000	21	itti (penni)
174	Eucalyptus camaldulensis	River Red Gum			
175	Eucalyptus leucoxylon	Yellow Gum	16 Jun 87		
176	Eucalyptus melliodora	Yellow Box			
177	Eucalyptus viminalis (?)	Manna Gum	16 Sep 06	PRB	SE – check this
178	Eutaxia microphylla	Common Eutaxia	28 Sep 06	PRB	mid area, S of Tk
179	Exocarpos cuppressiformis	Cherry Ballart	16 Jun 87		
180	Gahnia filum	Chaffy Saw-sedge			
181 *	Galium divaricatum	Slender Bedstraw			
182 *	Galium murale	Small Bedstraw	161 07		
183 184 *	Geranium retrorsum	- Crane's-bill	16 Jun 87		
<u>184</u> * 185	Gladiolus undulatus Glossodia major	Wild Gladiolus Wax-lip Orchid	24 Aug 87		
185 186 RT	Glycine latrobeana	Clover Glycine	24 Aug 87		
180 KI 187	Gnaphalium gymnocephala	Creeping Cudweed			
187	Gnaphalium indutum	Tiny Cudweed			
189 *	Gnaphalium purpureum	Purple Cudweed	16 Jun 87		
190	Gompholobium ecostatum	Wedge-pea	11 Nov 90	PRB	
191	Gonocarpos elatus	Tall Raspwort	16 Jun 87		
192	Gonocarpos tetragynus	Common Raspwort			
193	Goodenia geniculata	Bent Goodenia			
194	Goodenia humilus	Swamp Goodenia			
195	Gratiola pubescens	- Brooklime	16 Jun 87		
196	Hakea muelleriana	Desert Hakea			
107	Hakea rugosa	Dwarf Hakea			
197	TT 1 1 1 1 1 1 1	Vomed Deservent	16 Jun 87		
198	Haloragis heterophylla	Varied Raspwort			
198 199	Helichrysum leucopsidium	Satin Everlasting	24 Aug 87		
198 199 200	Helichrysum leucopsidium Helichrysum scorpiodes	Satin Everlasting Button Everlasting			
198 199 200 201	Helichrysum leucopsidium Helichrysum scorpiodes Hemarthria uncinata	Satin Everlasting Button Everlasting Mat Grass	24 Aug 87		
198 199 200 201 202	Helichrysum leucopsidium Helichrysum scorpiodes Hemarthria uncinata Hibbertia stricta	Satin Everlasting Button Everlasting Mat Grass Erect Guinea-flower	24 Aug 87 24 Aug 87		
198 199 200 201 202 203	Helichrysum leucopsidium Helichrysum scorpiodes Hemarthria uncinata Hibbertia stricta Hibbertia virgata	Satin Everlasting Button Everlasting Mat Grass Erect Guinea-flower Twiggy Guinea-flower	24 Aug 87		
198 199 200 201 202 203 204	Helichrysum leucopsidium Helichrysum scorpiodes Hemarthria uncinata Hibbertia stricta Hibbertia virgata Holcus lanatus	Satin Everlasting Button Everlasting Mat Grass Erect Guinea-flower Twiggy Guinea-flower Yorkshire Fog	24 Aug 87 24 Aug 87 9 Aug 87		
198 199 200 201 202 203 204 205	Helichrysum leucopsidium Helichrysum scorpiodes Hemarthria uncinata Hibbertia stricta Hibbertia virgata Holcus lanatus Holcus setosus	Satin Everlasting Button Everlasting Mat Grass Erect Guinea-flower Twiggy Guinea-flower Yorkshire Fog Annual Fog	24 Aug 87 24 Aug 87 9 Aug 87 1 Nov 89		
198 199 200 201 202 203 204 * 205 * 206 *	Helichrysum leucopsidium Helichrysum scorpiodes Hemarthria uncinata Hibbertia stricta Hibbertia virgata Holcus lanatus	Satin Everlasting Button Everlasting Mat Grass Erect Guinea-flower Twiggy Guinea-flower Yorkshire Fog	24 Aug 87 24 Aug 87 9 Aug 87		
198 199 200 201 202 203 204 205	Helichrysum leucopsidium Helichrysum scorpiodes Hemarthria uncinata Hibbertia stricta Hibbertia virgata Holcus lanatus Holcus setosus Hordeum leporinum	Satin EverlastingButton EverlastingMat GrassErect Guinea-flowerTwiggy Guinea-flowerYorkshire FogAnnual FogCommon Barley-grass	24 Aug 87 24 Aug 87 9 Aug 87 1 Nov 89		
198 199 200 201 202 203 204 * 205 * 206 * 207	Helichrysum leucopsidiumHelichrysum scorpiodesHemarthria uncinataHibbertia strictaHibbertia virgataHolcus lanatusHolcus setosusHordeum leporinumHovea linearis	Satin EverlastingButton EverlastingMat GrassErect Guinea-flowerTwiggy Guinea-flowerYorkshire FogAnnual FogCommon Barley-grassCommon Hovea	24 Aug 87 24 Aug 87 9 Aug 87 1 Nov 89		
198 199 200 201 202 203 204 * 205 * 206 * 207 208 209 210	Helichrysum leucopsidiumHelichrysum scorpiodesHemarthria uncinataHibbertia strictaHibbertia virgataHolcus lanatusHolcus setosusHordeum leporinumHovea linearisHyalosperma demissum	Satin EverlastingButton EverlastingMat GrassErect Guinea-flowerTwiggy Guinea-flowerYorkshire FogAnnual FogCommon Barley-grassCommon HoveaMoss Sunray	24 Aug 87 24 Aug 87 9 Aug 87 1 Nov 89		
198 199 200 201 202 203 204 * 205 * 206 * 207 208 209	Helichrysum leucopsidiumHelichrysum scorpiodesHemarthria uncinataHibbertia strictaHibbertia virgataHolcus lanatusHolcus setosusHordeum leporinumHovea linearisHyalosperma demissumHydrocotyle callicarpa	Satin EverlastingButton EverlastingMat GrassErect Guinea-flowerTwiggy Guinea-flowerYorkshire FogAnnual FogCommon Barley-grassCommon HoveaMoss SunraySmall Pennywort	24 Aug 87 24 Aug 87 9 Aug 87 1 Nov 89		

212					
212 213 *	Hydrocotyle laxiflora Hypchoeris glabra	Stinking Pennywort Smooth Cat's-ear			
213 *	Hypericum gramineum	Small St. John's Wort			
214 215 *	Hypochoeris radicata	Cat's Ear	16 Jun 87		
215	Hypolaena fastigata	Tassel Rope sedge	10 Juli 87		
210	Hypoxis glabella	Yellow Star	11Aug 87		
218	Hypoxis glubena Hypoxis pusilla	Tiny Star	16 Jun 87		
219	Imperata cylindrica	Blady Grass	10 5411 07		
220	Iseotopsis graminifolia	Grass Cushion			
221	Isoetes drummondii	Plain Quillwort	11Aug 87		
222	Isolepis fluitans	Floating Club-rush	0.0		
223 *	Isolepis hystrix	Awned Club-rush			
224	Isolepis nodosa	Knobby Club-rush			
225	Isolepis sp.	- Clubrush	1 Nov 89		
226	Isopogon ceratophyllus	Horny Conebush			
227	Isotoma fluviatilis	Swamp Isotome			
228	Juncus amabilis	- Rush			
229	Juncus bufonius	Toad Rush			
230	Juncus capitatus	Capitate Rush			
231	Juncus holoschoenus	Joint-leaf Rush			
232	Juncus homalocaulis	Wiry Rush			
233	Juncus krausii	Sea Rush			
234	Juncus pallidus	Pale Rush			
235	Juncus planifolius	Broad-leaf Rush	16 Jun 87		
236	Juncus subsecundis	Finger Rush	16 Jun 87		
237	Kennedia prostrata	Running Postman			
238	Lagenifera huegelii	Coarse Lagenifera			
239 *	Leontodon taraxacoides	Hairy Hawkbit	16 Jun 87		
240	Lepidosperma carphoides	Black Rapier-sedge			
241	Lepidosperma congestum	Clustered Sword-sedge			
242	Lepidosperma lineare	Little Sword-sedge	11 4		
243 244	Lepidosperma semiteres	Wire Rapier-sedge	11 Aug 87	GD & HA	
244 245	Leporella fimbriata	Fringed hare Orchid Coarse Twine-rush	~2004	GD & HA	
243	Leptocarpus brownii	Scaly Buttons			
240	Leptorhynchos squamatus Leptospermum continentale	Prickly Tea-tree			
247 248 (*)	Leptospermum laevigatum ?	Coastal Tea-tree ?	23 Oct 05	PRB	1 on trk in
248 (*)	Leptospermum myrsinoides	Heath Tea-tree	25 00 05	FKD	
250	Leptospermum obovatum	River Tea-tree			
250	Leucopogon virgatus	Common Beard-heath			
252	Levenhookia dubia	Hairy Stylewort			
252	Linum marginale	Native Flax	23 Oct 05	PRB	Post-fire, W of tk
254	Lobelia alata	Angled Lobelia	23 Oet 03 21 Jan 90	TRD	1 Ost-Inc, w of tk
255	Lobelia irrigua	Salt Pratia	21 5411 90		
256 *	Lolium perenne	Perennial rye-grass	16 Jun 87		
257	Lomandra collina	Pale Mat-rush			
258	Lomandra filliformis	Wattle Mat-rush			
259	Lomandra micrantha	Small-flower Mat-rush	24 Aug 87		
260	Lomandra sororia	Small Mat-rush	0		
261	Luzula sp.	- Woodrush			
262 *	Lycium ferocissium	African Box-thorn			
263	Lythrum hyssopifolia	Small Loosestrife	16 Jun 87		
264 *	Medicago polymorpha	Burr Medic	16 Jun 87		
265	Melaleuca decussata	Totem-poles	11 Aug 87		
266	Melaleuca neglecta	Mallee Honey-myrtle			
267	Melicytus dentata	Tree Violet	23 Oct 05	PRB	NW near river
268	Mentha diemenica	Slender Mint	11Aug 87	PRB	NW near river
268 269	Mentha diemenica Mentha pulegium	Slender Mint Pennyroyal		PRB	NW near river
268 269 270	Mentha diemenica Mentha pulegium Microlaena stipoides	Slender Mint Pennyroyal Weeping Grass	11Aug 87	PRB	NW near river
268 269 270 271	Mentha diemenica Mentha pulegium Microlaena stipoides Microseris sp.	Slender Mint Pennyroyal Weeping Grass Yam-daisy	11Aug 87 16 Jun 87	PRB	NW near river
268 269 270 271 272	Mentha diemenica Mentha pulegium Microlaena stipoides Microseris sp. Microtis parviflora	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid	11Aug 87	PRB	NW near river
268 269 270 271 272 273	Mentha diemenica Mentha pulegium Microlaena stipoides Microseris sp. Microtis parviflora Microtis unifolia	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid	11Aug 87 16 Jun 87	PRB	NW near river
268 269 270 271 272 273 274	Mentha diemenica Mentha pulegium Microlaena stipoides Microseris sp. Microtis parviflora Microtis unifolia Millotia tenuifolia	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia	11Aug 87 16 Jun 87	PRB	
268 269 270 271 272 273 274 275	Mentha diemenica Mentha pulegium Microlaena stipoides Microseris sp. Microtis parviflora Microtis unifolia Millotia tenuifolia Mimulus repens	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower	11Aug 87 16 Jun 87	PRB	
268 269 270 271 272 273 274 275 276	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMillotia tenuifoliaMimulus repensMitrasacme paradoxa	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort	11Aug 87 16 Jun 87 1 Nov 89	PRB	
268 269 270 271 272 273 274 275 276 277	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMillotia tenuifoliaMimulus repensMitrasacme paradoxaMonchia erecta	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort Erect Chickweed	11Aug 87 16 Jun 87 1 Nov 89 1 Nov 89	PRB	
268 269 270 271 272 273 274 275 276 277 * 278 278	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMillotia tenuifoliaMimulus repensMitrasacme paradoxaMonchia erectaMontia fontana	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort Erect Chickweed Water Blinks	11Aug 87 16 Jun 87 1 Nov 89 1 Nov 89 1 Nov 89	PRB	
268 269 270 271 272 273 274 275 276 277 278 279	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMillotia tenuifoliaMimulus repensMitrasacme paradoxaMonchia erectaMontia fontanaMoraea flaccida	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort Erect Chickweed Water Blinks One-leaf Cape Tulip	11Aug 87 16 Jun 87 1 Nov 89 1 Nov 89	PRB	
268 269 270 271 272 273 274 275 276 277 * 278 279 * 280	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMillotia tenuifoliaMillotia tenuifoliaMitrasacme paradoxaMonchia erectaMontia fontanaMoraea flaccidaMyoporum parvifolium	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort Erect Chickweed Water Blinks One-leaf Cape Tulip Creeping Myoporum	11Aug 87 16 Jun 87 1 Nov 89 1 Nov 89 1 Nov 89 11 Aug 87		
268 269 270 271 272 273 274 275 276 277 * 278 279 * 280 281	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMillotia tenuifoliaMillotia tenuifoliaMitrasacme paradoxaMonchia erectaMontia fontanaMoraea flaccidaMyoporum parvifoliumMyosotis australis	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort Erect Chickweed Water Blinks One-leaf Cape Tulip Creeping Myoporum Austral Forget-me-not	11Aug 87 16 Jun 87 1 Nov 89 1 Nov 89 11 Nov 89 11 Aug 87 23 Oct 05	PRB	NW near river
268 269 270 271 272 273 274 275 276 277 * 278 279 * 280 281 282	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMilotia tenuifoliaMillotia tenuifoliaMitrasacme paradoxaMonchia erectaMontia fontanaMoraea flaccidaMyoporum parvifoliumMyosotis australisMyriocephalus rhizocephalus	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort Erect Chickweed Water Blinks One-leaf Cape Tulip Creeping Myoporum Austral Forget-me-not Woolly-heads	11Aug 87 16 Jun 87 1 Nov 89 1 Nov 89 11 Nov 89 11 Aug 87 23 Oct 05 1 Nov 89		
$\begin{array}{r c c c c c c c c c c c c c c c c c c c$	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMilotia tenuifoliaMillotia tenuifoliaMitrasacme paradoxaMonchia erectaMontia fontanaMoraea flaccidaMyoporum parvifoliumMyosotis australisMyriocephalus rhizocephalusMyriophyllum crispata	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort Erect Chickweed Water Blinks One-leaf Cape Tulip Creeping Myoporum Austral Forget-me-not Woolly-heads - Water-milfoil	11Aug 87 16 Jun 87 1 Nov 89 1 Nov 89 11 Nov 89 11 Aug 87 23 Oct 05 1 Nov 89 7 Nov 89		
268 269 270 271 272 273 274 275 276 277 * 278 279 * 280 281 282	Mentha diemenicaMentha pulegiumMicrolaena stipoidesMicroseris sp.Microtis parvifloraMicrotis unifoliaMilotia tenuifoliaMillotia tenuifoliaMitrasacme paradoxaMonchia erectaMontia fontanaMoraea flaccidaMyoporum parvifoliumMyosotis australisMyriocephalus rhizocephalus	Slender Mint Pennyroyal Weeping Grass Yam-daisy Slender Onion-orchid Common Onion-orchid Soft Millotia Creeping Monkey-flower Wiry Mitrewort Erect Chickweed Water Blinks One-leaf Cape Tulip Creeping Myoporum Austral Forget-me-not Woolly-heads	11Aug 87 16 Jun 87 1 Nov 89 1 Nov 89 11 Nov 89 11 Aug 87 23 Oct 05 1 Nov 89		

205	*	Myrsiphyllum asparagoides	Smilax			
286		Neopaxia australasica	White Purslane	16 Jun 87		
287		Neurachne alopecuroides	Fox-tail Mulga Grass			
	*	Olea europaea	Olive	11 Nov 90		West, bend
289		Opercularia varia	Variable Stinkweed	11100 70		west, benu
		1				
290		Ophioglossum lusitanicum	Austral Adder's-tongue			
291		Orthoceris strictum	Horned Orchid			
292		Oxalis perennans	Wood Sorrel			
293		Paracalenana minor	Small Duck Orchid	~2004 0	GD & HA	
	*			-2004 C		
2/4		Parapholis incurva	Coast Barb-grass			
275	*	Parentucellia latifolia	Common Parentucellia			
296		Pelargonium rodneyanum	Magenta Stork's-bill			
297		Pentapogon quadrifidus	Five-awned Spear-grass			
-	*	Pentaschistis airoides	False Hair-grass	7 Nov 89		
270	*		<u> </u>			
2))		Petrorhagia velutina	Hairy Pink	7 Nov 89		
300	*	Phalaris aquatica	Toowoomba Canary-grass	16 Jun 87		
301		Pheladenia deformis	Bluebeard Orchid	~2004 C	GD & HA	
302		Phragmites australis	Common Reed			
303		Phylloglossum drummondii	Pigmy Clubmoss			
304		Pimelia humilis	Common Rice-flower			
305	*	Plantago bellardii	Hairy Plantain			
306	*	Plantago coronopus	Buck's-horn Plantain			
307		Plantago gaudichaudii	-Plantain	7 Nov 89		
	*	Plantago lanceolata	Ribwort	, 1,01,07		
	•	6				
309		Plantago varia	Variable Plantain			
310		Platylobium obtusangulum	Common Flat-pea			
311		Pleurosorus rutifolius	Blanket Fern	16 Jun 87		
	*	Poa annua	Annual Meadow-grass	16 Jun 87		
313		Poa labillardieri	Great Tussock-grass	10 Juli 07		
314		Poa sieberiana	Small Tussock-grass			
315		Podolepis jaceoides	Showy Podolepis			
316		Podotheca angustifolium	Sticky Longheads	9 Aug 87		
	*	Polypogon maritimus	Coast Beard-grass			
318		Poranthera microphylla	Small Poranthera			
319		Potamogeton ochreatus	Blunt Pondweed			
320		Potamogeton pectinatus	Fennel Pondweed			
321		Prasophyllum elatum	Tall Leek-orchid			
322		Pseudognaphalium luteoalbum	Jersey Cudweed	16 Jun 87		
			Austral Bracken			
323		Pteridium esculentum		16 Jun 87		
324		Pterostylis nana	Dwarf Greenhood	1 Oct 89		
325		Pterostylis nutans	Nodding Greenhood	17 Sep 06 E	DL	N end of EntryTk
326		Pterostylis pedunculata	Maroon-hood	24 Aug 87		•
	RT	Ptilotus erubescens	Hairy-tails	211149.07		
	K1		5	00 0 × 10 F	ND D	XX 7 1
328		Ptilotus macrocephalus	Featherheads	29 Oct 13 P	PRB	W end
329		Pyrorchis nigricans	Red-beaks			
330	RT	Quinetia urvillei	Quinetia	7 Nov 89		
331		Ranunculus rivularis	Small River Buttercup	16 Jun 87		
332		Ranunculus robertsonii	Slender Buttercup	10000000		
	*					
555	*	Romulea rosea	Common Onion-grass			
551	*	Rumex acetosella	Sheep Sorrel			
335		Rumex brownii	Slender Dock			
	*	Rumex crispus	Curled Dock			
337		Samolus repens	Creeping Brookweed	1 Nov 89		
	*			1 1107 07		
550	т	Schinus molle	Pepper-tree			
339		Schoenus apogon	Common Bog-wash			
340	_	Schoenus breviculmis	Matted Bog-rush			
341		Sebaea albidiflora	White Sebaea			
342		Sebaea ovata	Yellow Sebaea	16 Jun 87		
				10 Juli 0/		
343		Selliera radicans	Selliera			
344		Senecio glomeratus	Annual Fireweed	16 Jun 87		
345		Senecio picridioides	- Fireweed	16 Jun 87		
346		Senecio pinnatifolius	Variable groundsel	20 Sep 07 P	PRB	a few plants, SW
347		Senecio quadridentatus	Cotton Fireweed			
				04 4 07		
348		Senecio squarrosus	Leafy Fireweed	24 Aug 87		
	*	Sherardia arvensis	Field Madder	7 Nov 89		
349		C:1	French Catchfly	7 Nov 89		
349	*	Shene gamca	2			
349 350	*	Silene gallica Siloxerus multiflorus	Small Wrinklewort			
349 350 351	*	Siloxerus multiflorus	Small Wrinklewort	14 Can 11 T	DDD	Towards bridge
349 350 351 352		Siloxerus multiflorus Solanum laciniatum	Kangaroo Apple	14 Sep 11 P	PRB	Towards bridge
349 350 351 352 353	*	Siloxerus multiflorus Solanum laciniatum Solanum nigrum	Kangaroo Apple Black Nightshade	14 Sep 11 P	PRB	Towards bridge
349 350 351 352		Siloxerus multiflorus Solanum laciniatum	Kangaroo Apple	14 Sep 11 P	PRB	Towards bridge
349 350 351 352 353 354		Siloxerus multiflorus Solanum laciniatum Solanum nigrum Solanum simile	Kangaroo Apple Black Nightshade Oondoroo	14 Sep 11 P	PRB	Towards bridge
349 350 351 352 353 354 355	*	Siloxerus multiflorus Solanum laciniatum Solanum nigrum Solanum simile Solenogyne dominii	Kangaroo Apple Black Nightshade Oondoroo - Solenogyne	14 Sep 11 F	PRB	Towards bridge
349 350 351 352 353 354 355 356		Siloxerus multiflorus Solanum laciniatum Solanum nigrum Solanum simile	Kangaroo Apple Black Nightshade Oondoroo	14 Sep 11 F	PRB	Towards bridge

159 * Speraris bubblera Harlequin-Rover 7 Nov 89 361 * Steckhorism monogyna Candles 14 Sep 06 PRB W side, near Rall 362 * Stellaria palida Lesseved 1 Nov 89 364 Stellaria palida Lesseved 1 Nov 89 364 Stellaria palida Lesseved 1 Nov 89 364 Stellaria palida Lesseved 1 Nov 89 365 Stylidium indatam While Book Trigger plant 366 Stylidium indatam Hundreds and Thousands 367 Tratacteum sp. - Dandetion 368 R Templetonia stenophylla Leaf Templetonia 370 Thelymitra calmena Pink Seu-acchid 371 Thelymitra calmena Globe-hood Sun-orchid 372 RT: Thelymitra calmena Globe-hood Sun-orchid 373 Thelymitra natemiliani Crimson Sun-orchid 376 RT: Thelymitra natemiliani Stender Sun-orchid 377 Thelymitra natemiliani Stender Sun-orchid 378 Thelymitra natemiliani Crimson Sun-orchid 379 Thelymitra natemiliani Crimson Sun-orchid 378 Thelymitra natolinas Stender Sun-orchid	358 *		Sonchus oleraceus	Sow Thistle		
360 * Spergularia rubra Rel Sand-spurcey 361 Suckhousia morogyna Canlles 14 Sep 06 FPR W side, near Rall 362 * Stellaria pulita Lesser Chickweed 1 Nox 89 363 * Stellaria pulita Lesser Chickweed 1 Nox 89 364 Staartina muelleri Sporn Cudweed 1 Nox 89 365 Stylidum inundatum White Book Trigger-plant - 366 R Templetonia stenophylla Leafy Templetonia 16 Sep 06 PRB 1 plant, SE side 367 * Tarascum sp. - Dandelion - 378 R Templetonia stenophylla Leafy Templetonia 16 Sep 06 PRB 1 plant, SE side 379 Thelymitra natemifera Rabhit-cars - - 371 Thelymitra natemifera Rabhit-cars - - 372 RT Thelymitra natemifera Rabhit-cars - - 373 Thelymitra natemifera Stam-orchid - - 374 Thelymitra natemifera Stam-orchid - - 375 RT Thelymitra natemifera Stam-orchid - - 376 RT Thelymitra natemifera Stam-orchid - - 377 <td>-</td> <td></td> <td></td> <td></td> <td>7 Nov 89</td> <td></td>	-				7 Nov 89	
361 Stackhousia monogyna Candles 14 Sep 06 PKB W side, near Rail 363 * Stellaria media Chickweed 1 Nov 89 364 * Stellaria media Chickweed 1 Nov 89 365 * Stellaria media White Book Trigger-plant 366 Stylidium inundatum Hundreds and Thousands 367 * Taraxacum sp. 368 R Templetonia stenophylla Leady Templetonia 369 Terraheca ciliata Pink Bells 370 Thelymitra amennifera Rabbit-sars 371 Thelymitra chasmogama Globe-hood Sun-orchid 373 Thelymitra koninesii Blue star Sun-orchid 374 Thelymitra nuccellian Frink Sun-orchid 375 RT Thelymitra nuccellian 376 RT Thelymitra nuccellian 377 Thelymitra nuccellian Kangaroo Crass 378 Thelymitra nuccellian Kangaroo Crass 379 Thelymitra nuccellian Kangaroo Crass 381 Thysonoti patersonii Twing Fringe-lily 382 Trifolium augustifolium Narov-leaf Clover 378 * Trifolium augustifolium 379 <t< td=""><td>-</td><td></td><td></td><td></td><td>, 1101 05</td><td></td></t<>	-				, 1101 05	
362 * Stellaria pallida Chickweed 1 Nov 89 363 * Stellaria pallida Lesser Chickweed 1 Nov 89 364 Statartian muelleri Spoon Culweed 1 Nov 89 365 Stylidium sinundaum Hundreds and Thousands 366 * Terrataccam sp. - Dandelion 367 * Taraxacam sp. - Dandelion 368 R Templetonia sterophylla Lealy Templetonia 369 Tetratheca cillata Pink Bells 370 Thelymitra atsemogama Globe-hood Sun-orchid 371 Thelymitra holmosii Blue-star Sun-orchid 372 RT- Thelymitra holmosii Blue-star Sun-orchid 373 Thelymitra natorides Don-orchid 374 Thelymitra natorides Stenne Sun-orchid 375 RT Thelymitra natorides Stenne Sun-orchid 376 RT Thelymitra natorides Stenned Sun-orchid 377 Thelymitra natorides Stano orchid 378 Thelymitra natorides Stano orchid 379 Thelymitra natorides Stano orchid 370 Thelymitra natorides Stano orchid 371 Thelymitra natorides Stano orchid 372 <td></td> <td></td> <td></td> <td></td> <td>14 Sep 06 PRB</td> <td>W side near Rail</td>					14 Sep 06 PRB	W side near Rail
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364 Styndium calcaratum Hundreds and Thousands 365 Styldium inundatum Hundreds and Thousands 366 R Taraxacum sp. - Dandelion 368 R Templetonia stenophylla Leafy Templetonia 16 Sep 06 PRB 1 plant, SE side 369 Terrankeca ciliata Pink belis -						
365 Stylidium calcaratum White Book Trigger-plant 366 * Taraxacum sp. - Dandelion 367 * Taraxacum sp. - Dandelion 368 R Templetonia stenophylla Leafy Templetonia 16 Sep 06 PRB 1 plant, SE side 369 Tratakea crihita autennifera Rubbit-ears - </td <td></td> <td></td> <td></td> <td></td> <td>11(0/0)</td> <td></td>					11(0/0)	
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418 Zoysia macrantha Prickly Couch 24 Aug 8/					04 4 07	
	418		Loysia macrantha	Prickly Couch	24 Aug 87	

Observers other than AC (Cliff) Beauglehole (observer space left blank, 1975-1990) were: GD = Glenys Dixon, HA = Helen Anderson, AP = Andrew Pritchard (DSE), HT = Hilary Turner, PRB = Rod Bird, DL = Diane Luhrs, DP = David Pitts (DSE), RZ = Reto Zollinger

* = exotic sp.; T = threatened; R = rare

Summary: 418 species with 87 aliens and 331 indigenous species.

Table 2. HFNC BIRDLIST Fulham Streamside Reserve (Feb. 1983 to Oct. 2015) – records for the western block

		First r	ecorded	Oct	Sep	Sep	Sep	Sep	Sep- Oct	Sep- Oct	Sep- Oct	Sep S -Oct N		
No.	Species	Date	Observer	2005	2006	2007	2008	2009				2013		
1	Australasian darter	04/12/1994	J Cleary				*	*						
2	Australasian reed-warbler	04/12/1994	R Bird								*	*		*
3	Australasian shoveler	12/09/2008	R Bird				*							
4	Australian magpie	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
5	Australian pelican	21/09/2013	D Luhrs									*		
6	Australian raven	12/11/1990	R Bird											
7	Australian shelduck	18/09/2009	D Luhrs					*					*	
8	Australian white ibis	01/11/2014	DLuhrs	*	*	*	*	*	*	*		*	*	*
9 10	Australian wood duck	11/06/1990	R Bird R Bird	*	Ť	~	4	~	4	Ŧ		*	Ŧ	Ŧ
10	Azure kingfisher Black swan	22/10/2005 11/11/1990	R Bird				*		*			*		
12	Black-chinned honeyeater	18/09/2006	R Bird		*									
12	Black-eared cuckoo	01/01/1983	K Lakeman											
14	Black-faced cuckoo-shrike	04/12/1994	R Bird	*	*	*	*	*	*	*	*	*		*
15	Black-fronted dotterel	12/09/2008	R Bird				*							
16	Black-tailed native hen	12/09/2008	D Luhrs				*							
17	Brown falcon	04/12/1994	R Bird		*				*					*
18	Brown goshawk	12/09/2008	R Bird				*							
19	Brown thornbill	22/10/2005	R Bird	*	*	*	*	*	*	*	*	*	*	*
20	Brown treecreeper	29/03/1986	R Bird	*	*		*			*		*	*	*
21	Brown-headed honeyeater	15/04/2006	R Bird											
22	Buff-rumped thornbill	15/04/2006	R Bird		*			*		*	*			
23	Chestnut teal	05/11/2013	R Bird			*	*			*		*		
24	Collared sparrowhawk	04/12/1994	R Bird	*	*	*	*	*	*	*	*	*	*	*
25 26	Common bronzewing	04/12/1994 17/09/2010	R Bird R Bird	*	Ť	~	T	~	*	*	~	*	Ŧ	Ŧ
20 27	Crested pigeon Crested shrike-tit, e fm	11/06/1990	R Bird		*				4.					
28	Crimson rosella	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
29	Diamond firetail	04/12/1994	R Bird											
30	Dusky moorhen	29/03/1986	R Bird		*	*	*			*	*	*	*	*
31	Dusky woodswallow	01/01/1983	K Lakeman		*	*								*
32	Eastern rosella	04/12/1994	R Bird				*			*			*	
33	Eastern spinebill	16/04/2006	R Bird											
34	Eastern yellow robin	01/01/1983	K Lakeman			*								
35	Eurasian coot	29/03/1986	R Bird	*	*	*	*	*	*			*	*	*
36	Fairy martin	29/03/1986	R Bird											
37	Fan-tailed cuckoo	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
38	Flame robin	16/09/2007	R Bird			*	*		*					
39 40	Forest raven	18/09/2009	R Bird R Bird	*	*	*	*	*	*	*	*	*	*	*
40 41	Galah Gang-gang cockatoo	25/10/1987 11/06/1990	R Bird	*	*	*			*	*	*	*	*	*
42	Galg-galg cockatoo	15/04/2006	R Bird	-	-	·	*			*	-	-	-	-
43	Great egret	18/09/2006	R Bird		*					*				
44	Great cormorant	21/09/2013	R Bird									*		*
45	Grey currawong	04/12/1994	R Bird	*	*	*	*	*	*	*	*	*	*	*
46	Grey fantail	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
47	Grey shrike-thrush	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
48	Grey teal	22/10/2005	R Bird	*		*	*	*	*br	*	*			*
49	Hoary-headed grebe	29/03/1986	R Bird							*				
50	Horsfield's bronze-cuckoo	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
51	Intermediate Egret	01/11/2014	D Luhrs										*	
52	Jacky winter	29/03/1986	R Bird		*	*	*		*	*		*	*	*
53	Latham's snipe	18/01/1990	R Bird	*	*	*	*	*	*	*	*	*	*	*
54 55	Laughing kookaburra Little black cormorant	29/03/1986 17/09/2010	R Bird D Luhrs	Ŧ	Ŷ	Ť	ጥ	т	*	ጥ	*	*	Ŷ	Ť
55 56	Little eagle	1//09/2010	R Bird						*		•	•		
50 57	Little grassbird	11/10/2010	R Bird		*	*			*		*	*	*	
58	Little pied cormorant	29/03/1986	R Bird	*	*		*			*			*	*
59	Little raven	12/09/2008	R Bird				*	*	*	*	*	*	*	*
	Long-billed corella	29/03/1986	R Bird	*	*	*	*		*	*	*	*	*	*
60														
60 61	Magpie-lark	18/01/1990	R Bird		*	*		*			*	*		

No.	Species	Date	Observer	2005	2006	2007	2008	2009	2010		2012		2014	2015
63	Masked woodswallow	01/01/1983	K Lakeman							*		*		
64	Mistletoebird	22/10/2005	R Bird	*	*						*	*	*	*
65	Musk duck	22/10/2005	R Bird	*	*		*	*	*	*	* *	*	*	*
66 (7	Musk lorikeet	25/10/1987	R Bird	*	*		*		*	~	*	*	*	*
67 68	Nankeen night-heron	19/10/2015	R Bird		*	*	*		*	*	*	*	*	~ *
68 69	New Holland honeyeater Pacific black duck	29/03/1986 25/10/1987	R Bird R Bird	*			*	*	*	*	*	*	*	
09 70	Pallid cuckoo	22/10/1987	R Bird	*		*	*	*	*	*	•			
70	Peregrine falcon	22/10/2005	R Bird	*						*				
72	Pied cormorant	04/12/1994	J Cleary											
73	Pied currawong	11/11/1990	R Bird			*	*		*	*	*	*	*	*
74	Powerful owl	16/11/2007	J Cayley			*		*						
75	Purple swamphen	29/03/1986	R Bird	*			*				*	*	*	
76	Purple-crowned lorikeet	11/11/1990	R Bird		*		*		*	*		*		
77	Rainbow bee-eater	01/01/1983	K Lakeman								*			
78	Rainbow lorikeet	16/09/2007	R Bird			*				*	*			
79	Red wattlebird	04/12/1994	R Bird	*	*	*	*	*	*	*	*	*	*	
80	Red-browed finch	01/01/1983	K Lakeman		*				*	*		*		
81	Red-capped robin	01/01/1983	K Lakeman											
82	Red-rumped parrot	29/03/1986	R Bird	*	*		*	*		*		*		
83	Red-tailed black-cockatoo	18/09/2010	R Bird						*					
84	Restless flycatcher	29/03/1986	R Bird		*	*		*	*					*
85	Royal spoonbill	01/11/2014	R Bird	.4.		.4.		.4.				.4.	*	
86	Rufous songlark	18/01/1990	R Bird	*	*	*	*	*	*	*	*	*	*	*
87	Rufous whistler	25/10/1987	R Bird	* *	*			*	*	*	*	*	*	~
88 89	Sacred kingfisher	11/11/1990	R Bird	*			*	Ŷ	*	~ *	*	*	Ŷ	*
89 90	Scarlet robin	29/03/1986	R Bird	*	*		.1.		*	*		*	*	*
90 91	Shining bronze-cuckoo Silvereye	25/10/1987 15/04/2006	R Bird R Bird		*				*	*			*	
91 92	Southern boobook	22/10/2005	R Bird	*		*	*		*	•			*	
93	Southern whiteface	29/03/1986	R Bird					*		*				
94	Speckled warbler	14/07/2001	R Farnes											
95	Spiny-cheeked honeyeater	18/09/2010	R Bird						*					
96	Straw-necked ibis	10/09/2011	J Hayes							*				
97	Spotted pardalote	04/12/1994	R Bird	*	*	*	*		*	*	*	*	*	*
98	Striated pardalote	25/10/1987	R Bird	*	*	*	*	*	*	*	*	*	*	*
99	Striated thornbill	22/10/2005	R Bird	*						*				
100	Stubble quail	28/09/2006	R Bird		*					*	*	*		
101	Sulphur-crested cockatoo	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
102	Superb fairy-wren	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
103	Swamp harrier	25/10/1987	R Bird					*	*				*	
104	Tawny frogmouth	12/09/2008	R Zollinger				*						*	
105	Tree martin	04/12/1994	R Bird		*	*							*	
106	Varied sittella	04/12/1994	R Bird	* *	*	*	*	*	*	*			*	
107 108	Wedge-tailed eagle Weebill	11/06/1990 22/10/2005	R Bird R Bird	*	*	*	*	T	*	*	*	*	*	*
108	Welcome swallow	29/03/1986	R Bird	*	*	•	*		•	•	*	*	*	•
109	Whistling kite	16/09/2007	R Bird			*	*		*		*		*	
111	White-browed babbler	15/04/2006	R Bird		*		*	*	*	*	*	*	*	*
112	White-browed scrubwren	29/03/1986	R Bird		*	*	*	*	*	*	*	*	*	
112	White-eared honeyeater	15/04/2006	R Bird							*	*			
114	White-faced heron	29/03/1986	R Bird		*		*	*	*	*	*	*	*	
115	White-necked heron	18/09/2009	D Luhrs					*		*			*	
116	White-plumed honeyeater	29/03/1986	R Bird	*	*	*	*	*	*	*		*	*	
117	White-throated gerygone	12/09/2008	R Bird				*							
118	White-throated treecreeper	29/03/1986	R Bird		*	*	*	*	*	*	*	*	*	*
119	White-winged chough	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	
120	White-winged triller	12/09/2008	R Bird				*		*					
121	Willie wagtail	29/03/1986	R Bird	*	*	*	*	*				*	*	*
122	Yellow thornbill	04/12/1994	R Bird											
123	Yellow-billed spoonbill	01/11/2014	D Luhrs										*	
124	Yellow-faced honeyeater	04/12/1994	R Bird		*	*			*		*	*	*	*
125	Yellow-rumped thornbill	29/03/1986	R Bird	*	*	*	*	*	*	*	*	*	*	*
126 Tetal	Yellow-tailed black-cocky	29/03/1986	R Bird	50	(0)	<i>F</i> 1	\mathcal{C}^{2}	40	()	~~				10
1 ota	number of species seen at ea	ach survey per	100	50	60	51	63	48	60	65	52	65	62	46

Appendix 1.

HAMILTON FIELD NATURALISTS CLUB

PO Box 591, Hamilton, Victoria, 3300



Brian McKinnon Parks Victoria <u>Casterton</u>

Dear Brian

This letter relates to the Fulham Streamside Reserve and our concern over its weed management.

The Hamilton Field Naturalists Club spring campout at the **Fulham Streamside Reserve** gave us a spectacular display of wildflowers (particularly on the areas burned in the wildfire of February 2005 - a tremendous display of lilies, orchids, yam daisies, Podolepis, etc) and also dramatic evidence of weed invasion that threatens this magnificent flora area, and uncontrolled vehicle access to some parts (and problems caused by sections of "official" tracks that cannot cope with wet conditions).

We are very concerned about the future of this priceless natural asset. Perhaps one of the reasons for its apparent neglect has been that the Land Conservation Council in the mid 1980s decided to list it as a Streamside Reserve rather than as a Flora Reserve. We believe they did that because of the traditional recreational fishing aspect along the 5 km river frontage that defines the northern edge of the reserve. Our club had advocated it as a Flora Reserve, on account of the flora values. Our members have been actively involved in flora surveys there since 1987, with botanist Cliff Beauglehole, and have a current botanical list for the reserve of 300 native species. We added another 5 species on our last trip.

As you will be aware, there are rare and endangered species present (notably orchids) and some unique outliers. The latter include *Callitris gracilis*, *Melaleuca neglecta* and *Triodia*. We believe (as did Cliff Beauglehole) that this is the best flora reserve in the Dundas Tableland landform. Since grazing was removed in 1987 it has shown a remarkable improvement in species such as Buloke and Slender Cypress.

We know that weed control is not easy (we have worked on *Sparaxis* and Phalaris on Crown Reserves) but were appalled by the outcome of spraying to control Cape Tulip on non-target flora on the Fulham Streamside Reserve. We believe that a team was still working there last week and continuing to damage the reserve. We would be happy to visit the area with you as soon as possible and highlight the problems.

There are three main weed threats on the Fulham Reserve:

- **Cape Tulip** some large and small areas have been completely blitzed by the spray operators, except for tulips that have survived on the sprayed areas. There has been little attempt to <u>spot-spray</u> just the offending plants. The result has (and will be) the loss of the native species that are often intimately associated with the tulip. We noted one remarkable small area near the track along the river (near the *Melaleuca neglecta* saline area) that contained over 100 *Caladenia tentaculata* orchids, and the only patch we saw in 2 days, adjacent to tulip plants. These will be wiped out if the spray operator returns and adopts the same heavy-handed approach. A similar situation exists for *Pyrorchis nigricans* orchids on the bank of the river nearest the reserve entrance track. There were thousands of orchids there (and we saw no others in the reserve) and these would be very vulnerable to tulip spraying.
- **Sparaxis bulbifera** this needs to be urgently tackled. There are infestations at critical places along tracks, and along the Edgewood Road, among some of the finest stretches of native vegetation. Unless attention is paid to this terrible weed then we will lose a priceless tract of relatively pristine landscape. The problem is already large but it is possible to prevent the weed from invading the remaining areas of vegetation away from the river. We did apply some treatment to a couple of isolated outbreaks, but much more comprehensive attack is needed.
- African weed Orchid we noted that action is being taken to control this pest. We also found many plants outside of the areas that someone had marked with bamboo stakes and red tape (plants inside these areas had been spot-sprayed with herbicide and red dye). We dug up and destroyed any plants



8 Nov 2005

and bulbs we found outside those areas but our search was by no means systematic. We were pleased that the spread so far does not seem to be as extensive as we feared.

Whatever the cost to control the agricultural weed (Cape Tulip) in an acceptable manner, one cannot justify an approach that destroys the value and integrity of the Reserve. We note that the DPI Corporate Plan (2004-2007) has, as one of the four Government Commitments "*protecting the environment for future generations*". Clearly, the present damaging practice cannot continue.

It may be necessary, at this stage, for contractors to continue to get Cape Tulip under control. But they need a very <u>specific task proposal</u>, so that they can learn about the job, properly cost it, and be able to operate in a way that complies with the task prescription.

We think the following matters are of importance when engaging a contractor for this area:

- Using an appropriate spray head the sprayers used at Fulham delivered a burst of spray with a wide arc. We recommend a shielded head that delivers the spray to the particular plant over a very narrow circle. That is not possible to do with the equipment used at Fulham. Even where efforts had been made in some places to restrict the size of the spot sprayed the sprayed area around a single plant still approached a square metre. That is perhaps 10-20 times the necessary size. To achieve that, spot-spraying, rather than the "swipe" method, must be used. This approach would be slower but it is necessary to prevent collateral damage on important flora reserves. Keeping the sprayed areas small is also essential if one wants adjacent native species (rather than weeds) to re-colonise the areas. A back-pack system is much to be preferred in such areas, rather than the motorised systems that employ hoses and hand-gun delivery heads.
- **Operator training** the operators needs to target the particular species when working on nonfarmland areas where there are other important values to protect. The operators will need on-site training to identify important native flora so that they can be more careful in critical areas.
- Other weeds *Sparaxis bulbifera* is a serious environmental threat here, so why not spot-spray those and the odd Phalaris clump when encountered whilst spraying Tulip?

We believe that the only way to make a desirable impact is to engage the services of people (such as field naturalists) who have the botanical knowledge, interest and time to spend on the problem, to target the offending species without destroying too many non-target species. That way there is also a good chance that the bare spots will be filled by the adjacent native species, rather than weeds.

We believe that members of the Hamilton Field Naturalists Club are willing, have the time and expertise, and would be prepared to spend 3 or 4 days at a time (perhaps on 2 occasions) each spring, camping on site, to systematically treat fringes of areas most at risk (and any spots within) to get control of the situation. Nothing has been done in the past to control Sparaxis and most other environmental weeds, hence the present parlous state of affairs on all our reserves.

Our club would be happy to submit a tender to undertake such work. We envisage perhaps 4 people being engaged on the project. Our costs would include chemicals, fuel, some equipment maintenance, and a small amount for labour. We anticipate spending perhaps 5 hours per person per day walking the area and spraying the pest species. We would concentrate on *Sparaxis*, Cape Tulip, Phalaris and African Weed Orchid in the critical areas adjacent to (and in) the high-value flora areas of the reserve. We believe that this would be a very economic and effective way of getting the job done. Clearly, something has to be done or we can forget about keeping pristine flora reserves.

Our club has an ABN, is incorporated and has insurance cover.

Yours faithfully

John Cayley

President, <u>Hamilton Field Naturalists Clu</u>b

[**Postscript** – HFNC adopted the <u>herbicide-wiping</u> method for Cape Tulip and most of the Sparaxis infestations when we found that even spot-spraying would create too much collateral damage. The herbicide-wipe method was also found to be much less stressful for the operator, while ensuring a kill on the target plant]

Appendix 2.

HAMILTON FIELD NATURALISTS CLUB



PO Box 591, Hamilton, Victoria, 3300 hamiltonfnc@live.com.au



To:

1 May 2009

Victorian Environmental Assessment Council Level 6, 8 Nicholson St, East Melbourne, Victoria 3002

Re. Remnant Native Vegetation Investigation

FULHAM STREAMSIDE RESERVE – our submission relates to this 860-ha reserve that adjoins the Glenelg River and disused Hamilton-Natimuk Railway Reserve, 10 km north of Balmoral, in SW Victoria.

In 1982 the Land Conservation Council recommended the area be reserved as the Kanagulk Streamside Reserve. HFNC submits that the status of Streamside Reserve was inappropriate then, and now, and does not confer the status nor protection that the area deserves. AC Beauglehole and HFNC have listed 110 species of bird in and 325 native species of flora in the reserve, with some outstanding rarities and isolates, such as *Melaleuca neglecta*, *Callitris gracilis* and *Triodia bunicola* (see attached report by HFNC Oct 2008).

The reserve could be a prime high-value conservation linkage for Habitat 141 between Mt Arapiles-Little Youngs Forest-Grampians by way of the railway reserves that pass through to Wannon River and beyond. It provides a repository of flora and fauna species of considerable consequence for connectivity.

This reserve (Dundas Tableland bordering on Wimmera Plains) is a fantastic place with varied habitats from river flats, wetlands, plains woodlands to heathy woodlands (see attached DSE Ecological Vegetation Class map), with a high proportion of the reserve covered by EVCs classes rated as *"endangered"*, *"vulnerable"* or *"depleted"* (see attached DSE Bioregional Conservation Status map).

The reserve desperately needs more money spent on tracks, vehicle control, people control and weed control. Details of problems and threats in the reserve are given in the HFNC Oct 2008 report). In brief:

- the weeds *Sparaxis bulbifera* and Cape Tulip, in particular, pose an enormous threat, aggravated by past indiscriminate broad-scale spraying of Cape Tulip that denuded large areas while not being very effective in controlling the target species
- off-road vehicles scar the land, damage the flora and transfer weeds into the botanically rich heathland
- there is inadequate supervision of users and signage to indicate values and appropriate usage.
- funds are not available to provide an all-weather track along the river for fishermen, sight-seers and 4WD enthusiasts. This results in off-road detours that degrade the surrounds and carries *Sparaxis* into new areas, rendering past efforts at weed control futile (this weed has the potential to dominate the entire reserve, as occurs in much of the roadsides in this region of SW Victoria the infestation along the river is extensive and now beginning to advance away into the botanically-rich heathland adjoining).

• the lowly status of the reserve does not encourage anyone to enjoy without spoiling. This criticism extends to DPI personnel who monitor the bores in the area. They insist on driving along tracks signed-posted as being closed in winter, and then off the tracks to the bores, instead of walking the few metres required. Bores were also permitted to be installed in a pristine part of the heathland by Iluka (Mineral Sands), despite the certainty that continued traffic thereafter (by staff and curious visitors) would allow *Sparaxis* and Cape Tulip ingress to the heart of the reserve.

HFNC proposes that the reserve be upgraded to **Flora & Fauna Reserve** or **State Park**, to give it better protection from recreational enthusiasts, to provide better environmental management, and to ensure that it can exist as a valuable flora reserve and contribute substantially to ecological connectivity in the future.

Yours faithfully

Dr PR Bird Secretary, Hamilton Field Naturalists Club

[**Postscript** – VEAC delivered its **Final Report** in March 2011 (see <u>www.veac.gov.au</u>). While offering many suggestions as to how ecological connectivity might be improved across fragmented landscapes (with a major emphasis on road and railway reserves), VEAC did not propose any amendments to public land use to improve the security and management of biodiversity on individual reserves and sites.

VEACV acknowledged the significant past and on-going decline in biodiversity, and that retaining existing habitat is the key factor affecting the process of change.

We consider that the failure to propose amendments to upgrade the status and management of significant existing reserves, such as Fulham, is regrettable since they are the key links in any plans for sustaining native biota across currently degraded public and private lands].