

Items 1 to 4 (in red) are the minor extension suggested by the administration.

DEG is also seeking in-principal approval for use of the wider space of the site for the items indicated in black:

#5: The area immediately to the north of the Library building giving space for

- the 7 wicking beds for which we have obtained funding and
- additional beds for which construction materials and labour would be provided by DEG as the community expands during the next 3 years.
- This area is currently grassed.

#6: Bush tucker trail, signposting edible plants in the excellent remnant bushland between Warwick Road and area 5. This trail would be developed in partnership with Local Aboriginal people. DEG began this consultation process when we engaged an indigenous representative identifying edible native plants in the bushland, in a Noongar culture and tucker workshop during October of 2015. We think that education about edible plants native to this place is an integral part of continuing to care for the land. It is an exciting opportunity for cross cultural communication, which we think is important.

7: Seating arrangement in shade under trees to accommodate workshops or groups (such as school excursions, daycare centres, Scouts, etc.) coming to visit the garden. We have had preliminary discussions with the Men's Shed regarding the feasibility of building and installing park benches as well as picnic table and bench structures similar to what we have seen in other places in CoJ parks.

- The completion of items 6, and 7 would involve separate, more detailed discussions with the other parties before implementation
- Detailed plans to be approved by the City of Joondalup on a case by case basis.
- Funding secured by DEG

City of Joondalup Duncraig Library Bushland Action Plan 2015 to 2020



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1.0 Introduction

1.1 Background

In 2014 the City of Joondalup developed a natural areas management plan for high and medium priority bushlands. One of the aims and objectives is to develop individual action plans which will provide specific recommendations to protect and enhance biodiversity values of the natural areas, whist maintaining appropriate community access and awareness.

1.2 Location

Duncraig Library bushland is located within the City of Joondalup, approximately 16 kilometres north-west from the Perth Central Business District in the suburb of Duncraig (see figure 1). covering an area of 0.3 hectares and is bordered by Warwick Road to the north, Duncraig Library and car park to the south and east, and Marmion Avenue to the west (see figure 2).

The park is managed by the City of Joondalup. It is zoned for Civic and Cultural use and is considered a medium priority natural area for management purposes.

The main function is for the protection of native plant species, as well as acting as an environmental and visual buffer between Duncraig Library and Warwick Road.

This Action Plan describes the potential environmental impacts and risks of activities in bushland and details management strategies that are recommended to minimise potential impacts.

The plan provides direction and is to be used as a reference document for City of Joondalup employees and contractors who are involved in the environmental management activities.

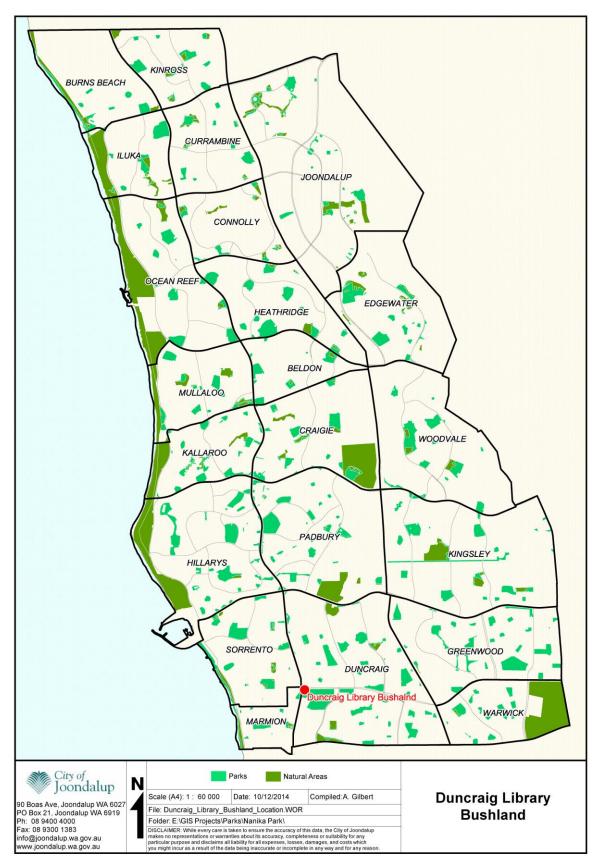


Figure 1: Location of Duncraig Library bushland in the City of Joondalup



Figure 2: Map of study area

2.0 Description of the Environment

2.1 Native Flora

Native flora is an important part of the bushland ecosystem. 64 native flora species occur (Appendix 1).

Jacksonia sericea has been identified on site and is listed as a Priority Four species. Lechenaultia linarioides has also been identified on site and is listed as significant flora of the Perth Metropolitan Region.

For a small bushland, it has a high native species count.

2.2 Weeds

A total of 16 weed species have been recorded, as shown in Appendix 2.

2.3 Fauna

Incidental sightings of fauna have been recorded (Appendix 3 and 4).

Two native species (both birds) have been sighted at the bushland, as well as two non-native species.

2.4 Vegetation Communities

The most recent Natural Area Assessment was conducted in 2014. Two vegetation communities have been identified, as shown in Table 1.

Table 1: Vegetation communities at Duncraig Library Bushland

Vegetation Community No.	Description	Vegetation Condition
1	Allocasuarina fraseriana over Closed Heath with Calothamnus quadrifidus/Melaleuca systena/Hakea lissocarpha over Hibbertia hypercoides Low Open Shrubland and Desmocladus flexuosus/Dianella revoluta Very Open Sedgeland.	Excellent to Pristine
2	Banksia attenuata over Xanthorrhoea preissii/Melaleuca systena Shrubland and Hibbertia hypercoides/Calothamnus quadrifidus Low Shrubland with Lepidosperma angustatum Very Open Sedgeland	Excellent to Pristine

2.5 Fire

Ten years ago there were reports of several small spot fires at Duncraig Library bushland.

Due to the small size of the reserve emergency vehicles have good access to all areas of the bushland in the case of a fire event.

There are lightly scattered weedy grasses present that do not pose a fire hazard.

3.0 Actions

AR = As Required

Conservation Action			Management Actions				
Area	Action	2015/16	2016/17	2017/18	2018/19	2019/20	
	Conduct seasonal-based monitoring to establish the extent of weeds and to identify priority weed species.	✓	✓	✓	✓	✓	
Weeds	In accordance with the City's Annual and Weekly Natural Areas Maintenance Schedules, on ground weed management is to occur through weed spraying and hand weeding methods with approximately 2 hours every 2 months allocated to weed management.	✓	✓	~	~	✓	
	Conduct seasonal weed control.	✓	✓	✓	✓	✓	
	Remove Chamelaucium uncinatum (Geraldton Wax) and Grevillea oliveacea (Olive Grevillea) progressively.	✓	✓	✓	✓	✓	
	Carry out edge spray of reserve.	AR	AR	AR	AR	AR	
	Control of Oxalis pes-caprae (Sour sob).	✓	✓	AR	AR	AR	
Fire Mitigation	Spray weedy grasses and <i>Euphorbia terracina</i> with herbicide annually during the wetter months to help reduce fuel load in summer.	AR	AR	AR	AR	AR	
Lluman Impact	Inspect park during scheduled site visits and remove BMX tracks and cubby houses as required.	✓	✓	✓	✓	✓	
Human Impact	Install conservation fencing around bushland to reduce human traffic and disturbance of vegetation.			✓			
Rubbish	Collect rubbish during scheduled site visits.	AR	AR	AR	AR	AR	

AppendicesAppendix 1 - Total Native plants within Duncraig Library bushland

[^]Significant flora of the Perth Metropolitan Area

Fabaceae Acacia cyclops Fabaceae Acacia pulchella Fabaceae Acacia pulchella Fabaceae Acacia pulchella Fabaceae Acacia pulchella Fabaceae Acacia saligna Fabaceae Acacia willdenowiana Restionaceae Alexgeorgia arenicola Casuarinaceae Allocasuarina fraseriana Casuarinaceae Allocasuarina humilis Poaceae Banksia findleyana Proteaceae Banksia lindleyana Proteaceae Banksia sessilis Fabaceae Bossiaea eriocarpa Colchicaceae Burchardia congesta Myrtaceae Calothamnus quadrifidus Haemodoraceae Corynotheca micrantha Fabaceae Daviesia triflora Restionaceae Desmocladus flexuosus Hemerocallidaceae Daviesia triflora Restionaceae Dianella revoluta Droseraceae Dianella revoluta Droseraceae Eucalyptus gomphocephala Myrtaceae Eucalyptus marginata Fabaceae Grevillea preissi Proteaceae Haemodoraceae Haemodorum laxum Proteaceae Haemodorum laxum Proteaceae Haemodorum laxum Proteaceae Haemodorum laxum Proteaceae Hemandra pungens Dilleniaceae Hibbertia racemosa Fabaceae Hovea pungens Fabaceae Jacksonia sternbergiana Goodeniaceae Jacksonia sternbergiana Goodeniaceae Jacksonia sternbergiana Goodeniaceae Jacksonia sternbergiana	Family	Genus and Species	
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Goodeniaceae Lechenaultia linarioides^	Fabaceae	Jacksonia sternbergiana	
	Goodeniaceae	Lechenaultia linarioides^	

^{*}Priority Four

Family	Genus and Species	
Cyperaceae	Lepidosperma angustatum	
Cyperaceae	Lepidosperma leptostachyum	
Ericaceae	Leucopogon propinquus	
Ericaceae	Leucopogon sp.	
Laxmanniaceae	Lomandra hermaphrodita	
Zamiaceae	Macrozamia riedlei	
Myrtaceae	Melaleuca systena	
Cyperaceae	Mesomelaena pseudostygia	
Asteraceae	Olearia axillaris	
Rubiaceae	Opercularia vaginata	
Iridaceae	Orthrosanthus laxus	
Proteaceae	Petrophile macrostachya	
Proteaceae	Petrophile media	
Phyllanthaceae	Phyllanthus calycinus	
Thymelaeaceae	Pimelea sp.	
Pittosporaceae	Pronaya fraseri	
Chenopodiaceae	Rhagodia baccata	
Goodeniaceae	Scaevola canescens	
Goodeniaceae	Scaevola repens	
Rhamnaceae	Spyridium tridentatum	
Proteaceae	Synaphea spinulosa	
Gyrostemonaceae	Tersonia cyathiflora	
Asparagaceae	Thysanotus manglesianus	
Asparagaceae	Thysanotus sparteus	
Hemerocallidaceae	Tricoryne elatior	
Xanthorrhoeaceae	Xanthorrhoea preissii	

Appendix 2 - Weeds within Duncraig Library bushland

Family	Genus and Species	Common Name
Poaceae	Avena barbata	Wild Oats
Myrtaceae	Chamelaucium uncinatum	Geraldton Wax
Myrtaceae	Eucalyptus platypus	Moort
Poaceae	Ehrharta calycina	Perennial Veldt Grass
Euphorbiaceae	Euphorbia terracina	Geraldton Carnation Weed
Asteraceae	Gazania linearis	Gazania
Iridaceae	Gladiolus caryophyllaceus	Pink Gladiolus
Proteaceae	Grevillea oliveacea	Olive Grevillea
Iridaceae	Homeria flaccida	One leaf Cape Tulip
Poaceae	Lagurus ovatus	Hare's Tail Grass
Myrtaceae	Leptospermum laevigatum	Victorian Tea Tree
Oxalidaceae	Oxalis pes-caprae	Soursob
Geraniaceae	Pelargonium capitatum	Rose Pelargonium
Asteraceae	Urospermum picroides	False Hawkbit
Asteraceae	Ursinia anthemoides	Ursinia
Asphodelaceae	Trachyandra divaricata	Dune Onion Weed

Appendix 3 - Native Fauna observed in Duncraig Library Bushland 2014

Family	Genus and Species	Common Name
Meliphagidae	Anthochaera caranculata	Red Wattlebird
Meliphagidae	Lichenostomus virescens	Singing Honeyeater



Figure 3: A Singing Honeyeater sitting on Banksia attenuata at Duncraig Library Bushland

Appendix 4 - Non-native Fauna observed in Duncraig Library Bushland 2014

Family	Genus and Species	Common Name
Pieridae	Pieris rapae	Cabbage White Butterfly
Columbidae	Spilopelia senegalenis	Laughing Turtle Dove