

CANTONMENT HILL, FREMANTLE

Boundary Definition: System 6 area boundary (Areas of bushland/native vegetation within the boundaries of the Site are not accurately mapped. The boundary has been drawn to include any unmapped bushland/native vegetation.)

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 490

Area (ha): bushland 0 (note comment under Boundary Definition)

Map no. 51

Map sheet series ref. no. 2033-I NW

Other Names: not known

Local Authorities (Suburb): City of Fremantle (Fremantle)

System 6 (1983): M71 part System area bushland and part scattered native plants (canopy), only bushland described

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Spearwood Dunes

Tamala Limestone (Qtz: LS1)

VEGETATION AND FLORA

Vegetation Complexes

Spearwood Dunes

Cottesloe Complex — Central and South

Floristic Community Types: *not sampled, type inferred

Supergroup 4: Uplands centred on Spearwood and Quindalup Dunes

*24 Northern Spearwood shrublands and woodlands

WETLANDS

No wetlands mapped

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: limestone ridge, vegetated uplands

Vegetation and Flora: limited survey (DEP 1996, Ecoscape 1989)

Structural Units: mapping (Ecoscape 1989)

Uplands (slopes): *Acacia xanthina* Tall Open Scrub

Vegetation Condition: Good to Degraded

Total Flora: 20 native taxa, 27 weed taxa (compiled from DEP 1996 and Ecoscape 1989; some of these natives may be planted) (estimated >80% expected flora)

Significant Flora: most southern location for *Acacia xanthina*; most southern occurrence of a series of species associated with the Spearwood Dunes (sands and Tamala Limestone) extending inland along the river — *Acacia xanthina*, *Acanthocarpus preissii*, *Dodonaea aptera*, *Spyridium globulosum* and *Templetonia retusa*

Fauna: limited survey for birds (16 species) and reptiles (2 species) (Ecoscape 1989)

Linkage: no adjacent bushland

Other Special Attributes: naturally vegetated areas alongside the Swan Estuary have particular conservation value in providing habitat for fauna and linkage between larger, more intact areas of bushland; one of the few naturally vegetated areas on the Swan Estuary; open space of regional significance (DCE 1983)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representing of ecological communities, General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation, Criteria not relevant to determination of regional significance, but which may be applied when evaluating areas having similar values

Recommendation: Site with Some Existing Protection; the existing care, control and management intent of the reserve is endorsed. The purpose of the reserve should be amended to include conservation and appropriate mechanisms applied in consultation with the management body (see Table 3, Volume 1).

CANTONMENT HILL, FREMANTLE

Boundary Definition: System 6 area boundary (Areas of bushland/native vegetation within the boundaries of the Bushplan Site are not accurately mapped. The boundary has been drawn to include any unmapped bushland/native vegetation.)

SECTION 1: CADASTRAL INFORMATION

(Lots, locations and derived information to be updated in the public submission period)

Bushplan Site no. 490 **Map no.** 60 **Map sheet series ref. no.** 2033-I NW

System 6 (1983): M71 part System area bushland and part scattered native plants (canopy), only bushland described

Other Names: not known

Area (ha): total 0.8; bushland 0 (note comment above under Boundary Definition)

Local Authorities (Suburb)
City of Fremantle (Fremantle)

Zoning
MRS: Urban
TPS: Local Reserve-Open Space
Lot/Location/Reserve numbers (Purpose),
Street name
0 Canning Hwy

Ownership Categories
Local Government

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

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Tamala Limestone (Qtl: LS1)

VEGETATION AND FLORA

Vegetation Complexes

Spearwood Dunes

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*24 Northern Spearwood shrublands and woodlands

WETLANDS

No wetlands mapped

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

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Vegetation and Flora: limited survey (DEP 1996, Ecoscape 1989)

Structural Units: mapping (Ecoscape 1989)

Uplands (slopes): *Acacia xanthina* Tall Open Scrub

Vegetation Condition: Good to Degraded

Total Flora: 20 native taxa, 27 weeds (compiled from DEP 1996 and Ecoscape 1989; some of these natives may be planted) (estimated >80% expected flora)

Significant Flora: most southerly location for *Acacia xanthina*; a series of species associated with the Spearwood Dunes (sands and Tamala Limestone) the occurrence of which is extended inland along the river — *Acacia xanthina*, *Acanthocarpus preissii*, *Dodonaea aptera*, *Spyridium globulosum* and *Templetonia retusa*.

Fauna: limited survey by Ecoscape (1989) for birds (16) and reptiles (2)

Linkage: no adjacent bushland

Other Special Attributes: naturally vegetated areas alongside the Swan Estuary have particular conservation value in providing habitat for fauna and linkage between larger, more intact areas of bushland; one of the few naturally vegetated areas on the Swan Estuary; open space of regional significance (DCE 1983)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria met for inclusion: Representation of ecological communities, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation, Criteria not relevant to determination of conservation value, but which may be applied when evaluating areas having similar values

Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site subject to Swan and Canning Rivers EPP; under TPS Local Reserve - Open Space Zoning

Constraints: under MRS Urban Zoning



Recommendation: The existing care, control and management intent of the reserve is endorsed. Long-term security and support for conservation management of the Bushplan Site to be enhanced by: amending the purpose of the reserve to include conservation; and applying appropriate mechanisms in consultation with the reserve management body.



LOCALITY - FREMANTLE



**Perth's Bushplan
System 6 - M71
Bushplan Site - Late
Cantonment Hill**

-  EPA System 6
-  Cadastre

MFP INTERNAL USE ONLY
Prepared By: Clifford Lloyd
Prepared For: Project Mapping
Map Ident: plot981030_1
Date: 30 Oct 98
Scale 1:8289

*PROPOSED.
SITE NO: 490 ✓*

Manually added to map - will not get extraction info.



M71 Cantonment Hill Fremantle
City of Fremantle Management Plan

Friends Advocate Management

Other Names:

Specific Study/studies Miscellaneous studies

Flora

Vegetation Map	<u>1</u>	2	3	
Flora list	<u>1</u>	2	3	4
Significant Taxa		<u>done / suitable</u> / doubtful		

Fauna

Mammals	1	<u>2</u>	
Birds	1	<u>2</u>	RAOU
Reptiles and Amphibia	1	<u>2</u>	
Invertebrates	1	<u>2</u>	

Vegetation Condition Map Sites Comment

Disturbance Factors Comment Management

Swan Coastal Plain Floristic Survey

AHC: National Estate- Listed / Interim / Nominated / Notified NT (WA): Heritage Classification

Notes

M71 Cantonment Hill Fremantle City of Fremantle Management Plan		
M71.1 Fremantle City Council in consultation with EPA prepare management plan for Cockburn Sound Location 371 and part of Cockburn Sound Locations 270, 1367 and 1633, encouraging indigenous flora.	Implemented	The local authority has a management plan for the area (endorsed 24 August 1992). Friends Group - City of Fremantle has an interest in this area.
M72 Sir Frederick Samson Park, Samson		
M72.1 Purpose of Reserve C34233 be amended to Public Recreation and Parkland and Reserve be vested in City of Fremantle.	Implemented	Now a Reserve for Public Recreation and Parkland vested in City of Fremantle.
M72.2 Lots 578 and 629 be added to Reserve C34233.	Intent Being Met	The local authority's management plan addresses this issue proposing to manage these lots in association with the reserved land.
M72.3 Fremantle City Council in consultation with EPA prepare management plan.	Implemented	City of Fremantle has a management plan for the area. Friends of Samson Park has an interest in this area.

Please circle the appropriate response or respond in the space provided.

Area M 7/ Name	<u>Contonment Hill</u>	
Title	<u>Management Plan</u>	
Published/Unpublished	Date	<u>1990</u>
Author/s	<u>David Kaashagen</u>	<u>Ecoscape</u>
Location of Publication	<u>City of Freo</u>	
Purpose (why was the report prepared?)		
Government	<input checked="" type="checkbox"/>	
Corporate	<input type="checkbox"/>	
Community Group	<input type="checkbox"/>	
Management Plan	<input type="checkbox"/>	

Soils		
Units	mapped	<input checked="" type="checkbox"/> described <input checked="" type="checkbox"/> referenced

Landscape		
Features	<input checked="" type="checkbox"/> described	<input type="checkbox"/> referenced

Flora		
Vegetation Map	<u>brief, area descriptions - Transect</u>	
Units	<u>10410 sites</u>	Site based (no) <input checked="" type="checkbox"/> line <input type="checkbox"/> <u>x 15</u>
Mapped	<u>Species richness (according to 10410 sites)</u>	
Veg Units	<input checked="" type="checkbox"/> Comparable Heddle <i>et al.</i>	Compared Heddle <i>et al.</i> Unit not mapped by Heddle <i>et al.</i> *
Flora list		
Timing	% completion <u>90%</u>	Significant Taxa
Sum '90	<input checked="" type="checkbox"/> Trees <input checked="" type="checkbox"/> Shrubs <input checked="" type="checkbox"/> Herbs <input checked="" type="checkbox"/> Sedges <input checked="" type="checkbox"/> Weeds	DRF CALM Priority Other

Fauna	<u>opportunistic, area + literature</u>	
Timing	% completion	Significant Taxa
A/A	<input checked="" type="checkbox"/> Mammals <u>100%</u> <input checked="" type="checkbox"/> Birds <u>70-80% (structured)</u>	Sched 1 Sched 2 Other
26 visits (12 hrs)	<input checked="" type="checkbox"/> Reptiles <u>50%</u> <input type="checkbox"/> Invertebrates	
	<u>Amphibs none</u>	

Vegetation Condition		
Site based	Mapped	Units <u>described</u>

Disturbance Factors		
Phytophthora	<input checked="" type="checkbox"/> observed <u>not there</u>	Other <input type="checkbox"/> incidental
	tested	<input checked="" type="checkbox"/> itemised

Notes	<u>Monitoring sites</u>	
	<u>RDD</u>	
	• presence / absence	
	• cover (Scale)	
	• sociability (index)	
	<u>Cultural & Abon part so Aboriginal (1840's data)</u>	
	<u>Note - land in (Com) Army land council with native veg described by council</u>	

AREA INFORMATION

System 6 Area (C or M) or Update Area (Update)

M71

Conservation Area
Nature Reserve
Reserve No
National Park
Reserve No
Local Government
Reserve No
Other
Proposed Conservation Areas
Local Government <i>Carborment Hill</i>
Reserve No <i>City of Fremantle</i>
Other

Conservation Area

Nature Reserve
Reserve No
National Park
Reserve No
Local Government
Reserve No
Other

AREA

Total Area	hectares
Completely Degraded	hectares
comments:	

AREA MAPPED FLORISTIC UNITS

Boundaries: System6 CALM

Units	Site (Condition)	Code	Bound	Area (ha)	Area(ha)

Boundaries determined by use of

aerial photograph <i>Metro Street Directory run 6 5065 5/1/91</i>
orthophoto <i>2033 1 NW Aug 1991</i>
vegetation map
soil map

502.45(941.1)
ECO

909372

**LIBRARY
ENVIRONMENTAL PROTECTION AUTHORITY
1 MOUNT STREET PERTH**

Cantonment Hill Management Report

Prepared For
The City Of Fremantle

**CANTONMENT
Riv.
BS**

by

**ECOSCAPE
Landscape Ecologists
And Environmental Consultants
Studio B6
Royal George Centre
34 Duke Street
East Fremantle**

©

Telephone 339 2300

**Full document
available
on request**



CANTO Ø 1



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No 13037 15272

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5 5 1 2 0 9 5 2 1 0 1 2 9 8 1 2 0 0 0 0 0 0 0 0

5235

WA 3166(C) METRO REGIONAL AREA & EXT. RUN 15 (5215-5307) 1:20000 11-DEC-92 920676