

CALM LIBRARY ARCHIVE
NOT FOR LOAN

016022

THE LIBRARY
DEPARTMENT OF CONSERVATION
& LAND MANAGEMENT
WESTERN AUSTRALIA

VEGETATION SURVEY OF THE DUNN ROCK NATURE RESERVE

by

W. G. MARTINICK & ASSOCIATES PTY. LTD.

for

DEPARTMENT OF FISHERIES & WILDLIFE

APRIL - MAY, 1984

C O N T E N T S

1.0	INTRODUCTION	1
1.1	Fires and Fire-breaks	1
1.2	Objectives of Survey	2
2.0	METHODS OF SURVEY	4
3.0	RESULTS	6
3.1	Vegetation	7
3.1.1	Location Descriptions	8
3.1.1.1	Mallees, Scrub and Heathlands	9
3.1.1.2	Woodlands and Open Forest	13
3.1.1.3	Lakeshore and Wetland Vegetation	17
3.1.2	Vegetation Map	20
3.2	Flora	21
3.3	Fire	22
3.3.1	Fuel Levels and Other Fire-related Factors	22
3.3.2	Fire-breaks	22
4.0	RECOMMENDATION	23
5.0	REFERENCES	23
6.0	STUDY TEAM	23

A VEGETATION SURVEY OF THE DUNN ROCK NATURE RESERVE

1.0 INTRODUCTION

The Dunn Rock Nature Reserve is a 22,797 ha wheatbelt conservation reserve about 30 km south-west of Lake King. It is in the Shire of Lake Grace and is the second largest Nature Reserve in the Pingelly Management District. The largest Nature Reserve in the vicinity is 94,170 ha Lake Magenta Nature Reserve, about 50 km south-west of Dunn Rock.

The Dunn Rock reserve comprises a diversity of eucalypt mallee and woodland associations on sandy, loamy and clayey soils and other, more restricted plant associations and communities on other substrates. Its vegetation was once characteristic of the region, but as clearing of the surrounding land for agriculture continues, the original vegetation is becoming rare.

1.1 FIRES AND FIRE-BREAKS

Many of the Dunn Rock Reserve associations are shared with the Lake Magenta Reserve, and so are some of the management problems, such as wildfire control and prevention. Neighbouring property owners are concerned that bushfires can originate in the reserve and spread to their properties. Reserve managers share this concern along with the concern that fires can spread from neighbouring properties into the reserve. The Department of Fisheries and Wildlife, which manages the reserve, considers the first step in satisfactory fire control procedures to be the construction of firebreaks through, as well as around, the reserve in order to provide access for firefighting and to divide the reserve into compartments.

However, there are constraints on locations in which firebreaks can be constructed. These constraints include:

- .. habitats which are poorly represented in the reserve,
- .. vulnerable habitats such as granite areas,
- .. habitats of endangered fauna,
- .. populations of plants belonging to species which are rare and endangered or of special scientific interest,
- .. areas susceptible to erosion, and
- .. areas of difficult access such as winter boggy patches and gullies.

Furthermore, the firebreaks should provide easy access, should be as near as possible to straight lines and should be placed through areas having natural low fuel levels.

1.2 OBJECTIVES OF SURVEY

A survey was proposed by the Reserve Management Officer to provide information about the nature of these constraints in the reserve and their locations. It was suggested that the survey be centered around a vegetation survey, and W G Martinick & Associates Pty Ltd undertook to carry out such a survey, with the following specific objectives:

- "1. to collect and identify a representative sample of the flora of the reserve, and to lodge specimens of each species with the Department of Fisheries and Wildlife, Reserve Management Team based at Pingelly, and with the Western Australian Herbarium.
2. to record the location of rare and endangered species of plants, and sites of scientific interest.

3. to produce a vegetation map and descriptions for the reserve.
The vegetation types are to be described in terms of major floristic composition and structural formations as per the descriptive system of Muir, e.g. Eucalyptus salmonophloia Tall Woodland, over Open Dwarf Scrub C (Melaleuca uncinata), over Open Herbs. Clumping of minor floristic differences may be permitted for operational ease, e.g. in the above description an area of another Melaleuca understorey may be described as Melaleuca Open Dwarf Scrub C, or Myrtaceous Open Dwarf Scrub C.
4. to identify vegetation associations and habitat types which, as a matter of priority, should remain undisturbed.
5. to examine the proposed firebreak system and suggest better alternatives if necessary.
6. to identify natural low fuel area on the reserve."

2.0 METHODS OF SURVEY

The basic plan for meeting the objectives of the survey involved field work followed by herbarium work to identify the collections and the mapping of vegetation and firebreaks on stereo pairs of black and white photography flown in December, 1967 and 1968 (1983 photography of at least part of the area has also been flown). Prior to the field trip, the aerial photographs were inspected and potential survey locations were marked onto them, and transects were indicated. The sample locations and transects were selected to include as much topographic and vegetation variation as possible.

Field work was carried out by Dennis Backshall and an assistant between April 11 and April 17, with input from Ken Newbey during two days of the field work. The vegetation at forty-five locations was sampled, recorded and photographed, and traverses were run around the periphery of the reserve and along accessible tracks within the reserve. Observations on vegetation and on transitions in vegetation were recorded along the transects. Location observations were recorded onto data sheets that are based on Muir's field data sheets and his system of vegetation descriptions (Figures 1, 2). The transects run and locations recorded are shown in Figure 3.

Dennis Backshall and his assistant camped in the reserve and pressed and dried herbarium specimens on a field drier at the campsite. Ken Newbey did preliminary determinations of the specimens in Ongerup, and Dennis Backshall verified the determinations at the Western Australian Herbarium in South Perth.

Ken Newby made initial recommendations for alterations of previously proposed firebreaks, based on his intimate knowledge of the region

FIGURE 1 MUIR SYSTEM OF VEGETATION CLASSIFICATION

LIFE FORM/HEIGHT CLASS	CANOPY COVER			
	DENSE d 70-100%	MID-DENSE c 30-70%	SPARSE i 10-30%	VERY SPARSE r 2-10%
T Trees >30m M Trees 15-30m LA Trees 5-15m LB Trees <5m	Dense Tall Forest Dense Forest Dense Low Forest A Dense Low Forest B	Tall Forest Forest Low Forest A Low Forest B	Tall Woodland Woodland Low Woodland A Low Woodland B	Open Tall Woodland Open Woodland Open Low Woodland A Open Low Woodland B
KT Mallee tree form KS Mallee shrub form	Dense Tree Mallee Dense Shrub Mallee	Tree Mallee Shrub Mallee	Open Tree Mallee Open Shrub Mallee	Very Open Tree Mallee Very Open Shrub Mallee
S Shrubs >2m SA Shrubs 1.5-2.0m SB Shrubs 1 0-1.5m SC Shrubs 0.5-1.0m SD Shrubs 0.0-0.5m	Dense Thicket Dense Heath A Dense Heath B Dense Low Heath C Dense Low Heath D	Thicket Heath A Heath B Low Heath C Low Heath D	Scrub Low Scrub A Low Scrub B Dwarf Scrub C Dwarf Scrub D	Open Scrub Open Low Scrub A Open Low Scrub B Open Dwarf Scrub C Open Dwarf Scrub D
P Mat plants H Hummock Grass GT Bunch grass >0.5m GL Bunch grass <0.5m J Herbaceous spp.	Dense Mat Plants Dense Hummock Grass Dense Tall Grass Dense Low Grass Dense Herbs	Mat Plants Mid-Dense Hummock Grass Tall Grass Low Grass Herbs	Open Mat Plants Hummock Grass Open Tall Grass Open Low Grass Open Herbs	Very Open Mat Plants Open Hummock Grass Very Open Tall Grass Very Open Low Grass Very Open Herbs
VT Sedges >0.5m VL Sedges <0.5m	Dense Tall Sedges Dense Low Sedges	Tall Sedges Low Sedges	Open Tall Sedges Open Low Sedges	Very Open Tall Sedges Very Open Low Sedges
X Ferns Mosses, liverwort	Dense Ferns Dense Mosses	Ferns Mosses	Open Ferns Open Mosses	Very Open Ferns Very Open Mosses

FIGURE 2 LOCATION DATA SHEET

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO.

Date:

Photo No:

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
 (Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
Stratum 2		
Dominants		
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

Years since last burnt:

Intensity of burn:

Litter depth & density:

Soil Texture:

Soil colour (Munsell):

Ersion present:

Erosion potential:

Degree slope:

Comments:

and its vegetation, upon the April fieldwork carried out by him and Dennis Backshall and upon interpretation of the aerial photographs. These are shown in Figure 3.

Arthur Weston drew the vegetation map from the field data provided by Dennis Backshall and Ken Newbey, from interpretation of stereo pairs of aerial photographs and from reference to Beard's Newdegate 1:250,000 vegetation map.

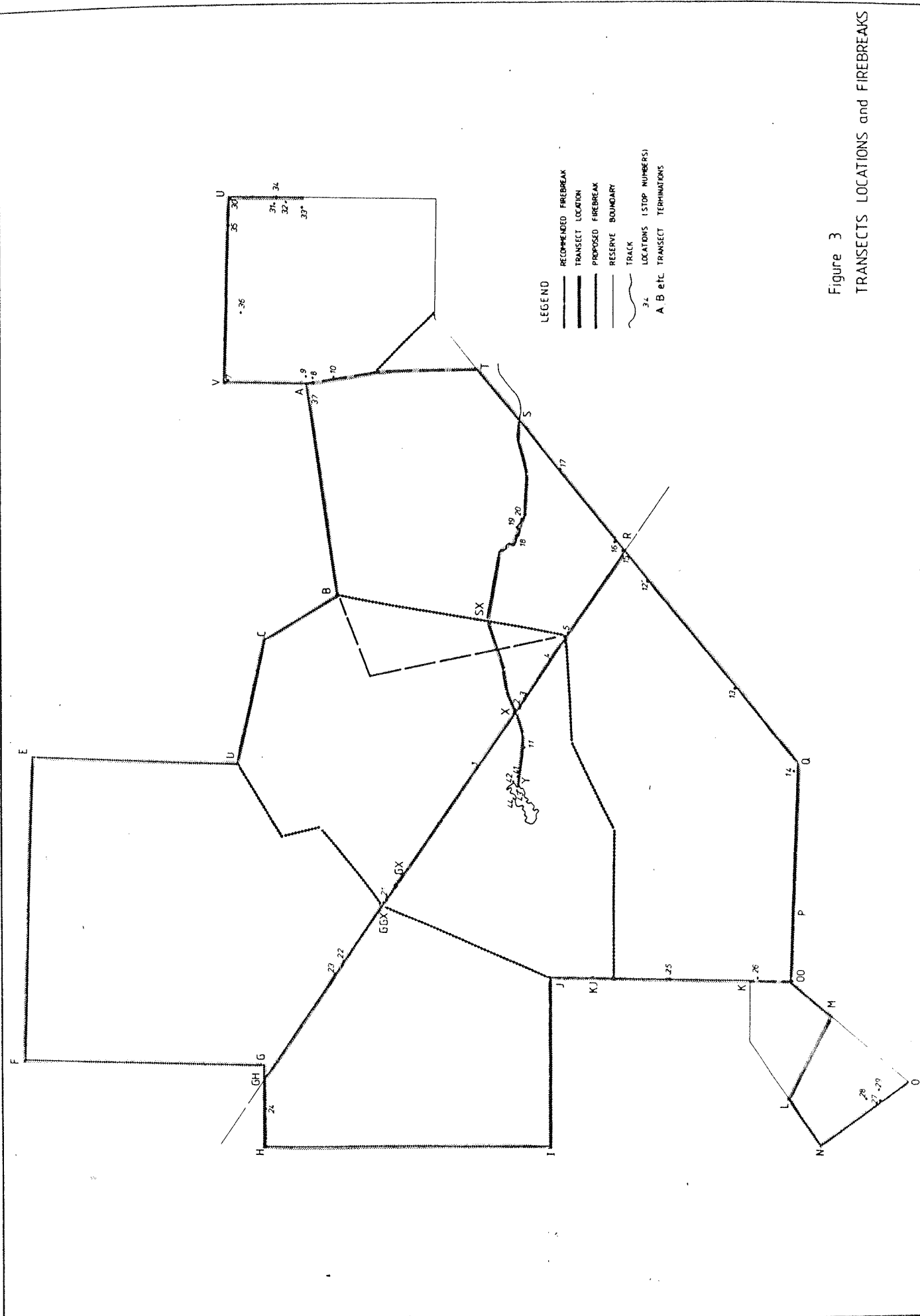


Figure 3
TRANSECTS LOCATIONS and FIREBREAKS

3.0 RESULTS

The results of the project are presented as:

- .. a map showing sample locations and transects, proposed system of internal firebreak and recommended alterations to the system (Figure 3),
- .. a set of vegetation descriptions based on the Muir method and organised by formation and location (as in the Lake Magenta Management Plan) (in report),
- .. vegetation map (Appendix 1),
- .. table of landform elements and corresponding soils and vegetation types (Appendix 2),
- .. a table correlating fuel levels (litter abundance) and vegetation types (Appendix 3),
- .. typical vegetation-soil sequences (Appendix 4),
- .. list of species recorded in the reserve (Appendix 5),
- .. the proforma location sheets (Appendix 6),
- .. colour prints of location stands of vegetation (Appendix 7),
- .. aerial photographs marked with suggested alteration of proposed internal firebreak and vegetation boundaries, and
- .. sets of labelled and identified herbarium specimens to Reserve Management Officer and to the Western Australian Herbarium.

3.1 VEGETATION

The vegetation of the reserve is primarily mallee and broombush, generally over scrub or heath, or Eucalyptus low woodland on sand plains and broad valleys. Variation of vegetation complexes occur on several ephemeral drainage lines, on or near sub-surface or exposed granite, and near water-gaining areas (e.g. salt lakes and depressions). There is considerable variation in diversity of understorey shrub species, the most species-rich areas occurring on well-drained soils on old raised, gravelly peneplains on the northern and western sides of the reserve and on colluvial, white sands sheets. The gravelly peneplains support an open shrubland in which species of Proteaceae are well represented, and the deep white sand has a prominent overstorey of Eucalyptus tetragona mallee.

The relationships between the landform elements and the principal vegetation types are shown in Appendix 2. Landform units and elements follow the classification of Newbey and Milewski (in prep.). Twenty-one elements that occur within the reserve are listed, along with brief soil descriptions. Thirty-seven vegetation types were recognised within the reserve; these have been mapped separately or as complexes, as described below. All except two of these types were observed and recorded at field location sites; the other two were observed during transecting. Field data sheets and photographs for each location site are listed in Appendices 6 and 7.

Some of the sand plain and broad-valley mallee vegetation types are variable with respect to relative abundances of co-dominant species and understorey structure, and they intergrade with each other. To assist in the interpretation of the inter-relationships of topographic elements and associated vegetation sequences, schematic diagrams

of these are provided in Appendix 4.

3.1.1 Location Descriptions

The following location descriptions are derived from location site data listed in the Appendices and are grouped according to three main classifications; Mallee, Scrub and Heathlands (group I); Forests and Woodlands (group II); and Lakeshore and Wetland Vegetation (group III).

The order of location descriptions corresponds to the order of associations given in Appendix 2.

3.1.1.1 Mallees, Scrub and Heathlands

Location 23:

Photo: DJB 84-8

Classification:

Eucalyptus albida Mallee on sandplain (old peneplain).

Description:

Very Open Shrub Mallee of Eucalyptus albida and Eucalyptus incrassata over Low Heath D which includes Xanthorrhoea ? reflexa, Petrophile seminuda and Hakea sp. (DJB 130). Occasional other mallees, including Eucalyptus tetragona, also occur.

Location 17:

Photo: DJB 84-26

Classification:

Eucalyptus redunca Mallee on sandplain (old slopes).

Description:

Mixed Shrub Mallee of Eucalyptus redunca, Eucalyptus uncinata, Eucalyptus eremophila over Low Scrub B of Melaleuca uncinata and Daviesia benthamii subsp. benthamii, over Dwarf Scrub D of Spyridium cordatum, and very open low sedges, including Lepidosperma drummondii.

Location 12:

Photo: DJB 84-14

Classification:

Eucalyptus transcontinentalis Mallee on sandplain (drainage line on sandy loam).

Description:

Mixed Open Shrub Mallee of redwood (Eucalyptus

transcontinentalis), Eucalyptus eremophila and Eucalyptus celastroides, over Dense Low Heath D of Melaleuca bracteosa, including Melaleuca cardiophylla, Melaleuca subfalcata, Acacia glaucoptera, Hakea commutata, Grevillea pectinata.

Location 20:

Photo: DJB 84-32

Classification:

Eucalyptus eremophila mallee on sandplain (drainage line on clayey sand).

Description:

Mixed Shrub Mallee of Eucalyptus eremophila, including Eucalyptus pileata, Eucalyptus celastroides, Eucalyptus transcontinentalis, over Low Scrub B including Exocarpos aphyllus, Boronia inornata, Dillwynia uncinata, Hibbertia enervia, Microcybe albiflora.

Location 14:

Photo: DJB 84-19

Classification:

Eucalyptus tetragona Mallee on sandplain (colluvial sand sheet).

Description:

Very Open Shrub Mallee of Tallerak (Eucalyptus tetragona) over Dwarf Scrub D including Beaufortia micrantha, Calothamnus gracilis, Dryandra ferruginea, Hakea spp., over very Open Low Sedges Mesomelaena stygia, Harperia lateriflora.

Location 30:

Photo: DJB 84-49

Classification:

Open Mallee/Heath on broad valley (well-drained sands).

Description:

Mixed open shrub mallee of cypress (Callitris preissii subsp. verrucosa) and Eucalyptus spp., over Low Scrub A of broombush (Melaleuca uncinata) with Hakea corymbosa, Leptospermum roei, over Dwarf Scrub D of Beaufortia micrantha, Coleantha myrtoidea, Melaleuca aff. leptospermoides, Daviesia lancifolia, and other species.

Location 35:

Photo: DJB 84-58

Classification:

Eucalyptus pileata mallee on broad valley (well drained loamy sands).

Description:

Mixed Open Shrub Mallee of Eucalyptus pileata, with Eucalyptus spathulata subsp. grandiflora and Eucalyptus incrassata, over Scrub of Melaleuca spp., over Dwarf Scrub (including Melaleuca spp., Templetonia sulcata).

Location 27:

Photo: DJB 84-45

Classification:

Eucalyptus foecunda mallee on broad valley (choked depression).

Description:

Mixed Open Shrub Mallee of Eucalyptus foecunda and Eucalyptus aff. uncinata, over Low Scrub A including

Olearia revoluta, Hakea corymbosa, Melaleuca pentagona,
Leptospermum erubescens and Acacia spp., over Open
 Dwarf Scrub D.

Location 11:

Photo: DJB 84-11

Classification:

Mixed Low Shrubland over granite (shallow soil).

Description:

Low Open Scrub A of Grevillea shuttleworthiana, over
 Dwarf Scrub D including Petrophile seminuda, Callitris
roei, Melaleuca aff. leptospermoides and Allocasuarina
campestris subsp. campestris, over Open Low Sedges that
 include Mesomelaena stygia.

Location 21:

Photo: DJB 84-34

Classification:

Lateritic tall shrubland on gravelly sandplain (old
 peneplain).

Description:

Very Open Shrub Mallee, including Allocasuarina pinaster,
Lambertia inermis, Eucalyptus spp., over Heath B
 including Hakea aff. marginata, Dryandra aff. armata,
 over diverse Open Dwarf Scrub D, including Banksia
violacea, Beaufortia schaueri, Synaphea polymorpha and
Dryandra erythrocephala.

Location 8:

Photo: DJB 84-9

Classification:

Melaleuca spp. shrubland in drainage line.

Description:

Open Low Scrub A of Leptospermum oligandrum over Heath B of Melaleuca spp. and the sedge Gahnia australis.

Location 24:

Photo: DJB 84-40

Classification:

Acacia lasiocalyx woodland/heath on granite (shallow soil).

Description:

Low Woodland of Acacia lasiocalyx and Acacia microbotrya, over Dwarf Scrub D of Allocasuarina campestris and Melaleuca elliptica, over Open Low Sedge of Lepidosperma pruinsum.

3.1.1.2 Woodlands and Open Forest

Location 42:

Photo: DJB 84-73

Classification:

Allocasuarina huegeliana Low Woodland/Low Forest over granite (outer apron).

Description:

Dense Low Forest of sheoak (Allocasuarina huegeliana), over Open Low Sedges Lepidosperma drummondii and Hummock Grass, Spartochloa scirpoidea.

Location 43:

Photo: DJB 84-74

Classification:

Acacia lasiocalyx Low Forest over granite (outer apron).

Description:

Low Forest A of Acacia lasiocalyx over Open Low Scrub A of Melaleuca elliptica and Thryptomene australis, over Very Open Low Sedge Lepidosperma pruinsum and Hummock Grass.

Location 44:

Photo: DJB 84-75

Classification:

Eucalyptus occidentalis Low Woodland over granite (outer apron).

Description:

Low Woodland A of yate (Eucalyptus occidentalis), over Low Heath D including Dodonaea ceratocarpa, Calothamnus quadrifidus and Acacia erinacea, over Very Open Low Sedges Lepidosperma pruinsum and Lomandra spp.

Location 41:

Photo: DJB 84-74

Classification:

Eucalyptus salmonophloia Woodland over granite (outer apron).

Description:

Woodland of salmon gum (Eucalyptus salmonophloia) over Open Scrub of Acacia microbotrya and Exocarpos sparteus, over Low Sedges Lepidosperma pruinsum, Lomandra spp. and Gahnia ancistrophylla.

Location 39:

Photo: DJB 84-68

Classification:

Eucalyptus falcata Low Woodland/Low Forest on sandplain
(old peneplain of gravelly sandy loam).

Description:

Low Forest A of ^{Silver} Mallet (Eucalyptus falcata), over Low
Scrub A including Beyeria lechenaultia, Leptomeria
pauciflora, Gastrolobium crassifolium, Phebalium aff.
filifolium and Dodonaea amblyophlla.

Location 16:

Photo: DJB 84-24

Classification:

Eucalyptus annulata Low Woodland/Low Forest on sandplain
(old peneplain of clay loam).

Description:

Low Forest B of Eucalyptus annulata, over Open Dwarf
Scrub C, including Exocarpos aphyllus, Hakea commutata
and Cryptandra sp.

Location 19:

Photo: DJB 84-30

Classification:

Eucalyptus salubris Low Woodland/Low Forest on sandplain
(old peneplain of clay loam).

Description:

Low Forest A of gimlet (Eucalyptus salubris), over Low
Heath C including Melaleuca aff. cuticularis, Melaleuca
spp. and Exocarpos aphyllus.

Location 18:

Photo: DJB 84-28

Classification:

Eucalyptus flocktoniae Woodland on sandplain (old peneplain of sandy loam).

Description:

Woodland of merriit (Eucalyptus flocktoniae), Eucalyptus spp., over Open Scrub of Melaleuca spp., Grevillea pectinata and Acacia erinacea.

Location 2:

Photo: DJB 84-3

Classification:

Eucalyptus gardneri Low Woodland, on drainage line.

Description:

Low Woodland A of Eucalyptus gardneri over Sparse Scrub of broombush (Melaleuca uncinata), over Dwarf Scrub C including Rulingia sp. and Acacia viscifolia.

Location 13:

Photo: DJB 84-18

Classification:

Eucalyptus salmonophloia Woodland on broad valley (drainage line of alluvium).

Description:

Open Woodland of salmon gum (Eucalyptus salmonophloia) over Very Open Shrub Mallee of Eucalyptus pileata, over Open Dwarf Scrub D including Templetonia sulcata, Acacia spp. and Daviesia benthamii subsp. benthamii.

Location 9:

Photo: DJB 84-10

Classification:

Eucalyptus occidentalis Woodland on broad valley
(drainage line of alluvium).

Description:

Open Woodland of yate (Eucalyptus occidentalis), over
thicket of Leptospermum oligandrum, over Very Open Low
Sedges.

Location 28:

Photo: DJB 84-46

Classification:

Eucalyptus occidentalis Woodland on broad valley
(depression).

Description:

Open Woodland of yate (Eucalyptus occidentalis) over
Low Woodland B of Melaleuca aff. cuticularis over
Open Herbs including Carpobrotus rossii.

3.1.1.3 Lakeshore and Wetland Vegetation

Location 32:

Photo: DJB 84-54

Classification:

Halosarcia Low Shrubland/Herbland on salt lake floor.

Description:

Open Herbland of Selenothamnus squamatus, Halosarcia
spp., Frankenia tetrapetala.

Location 29:

Photo: DJB 84-47

Classification:

Eucalyptus salmonophloia Woodland on fossil dunes.

Description:

Open Woodland of salmon gum (Eucalyptus salmonophloia), over Open Scrub including Eucalyptus uncinata, Exocarpos sparteus and Acacia microbotrya, over Open Dwarf Scrub of Olearia spp., over Open Low Sedges, including Lepidosperma aff. resinosum and Carpobrotus rossii.

Location 33:

Photo: DJB 84-56

Classification:

Eucalyptus kondininensis Woodland on fossil dunes.

Description:

Woodland of Kondinin blackbutt (Eucalyptus kondininensis), over Scrub of Melaleuca thyoides, over Low Scrub A of Melaleuca acuminata, over Very Open Low Sedges.

Location 36:

Photo: DJB 84-64

Classification:

Melaleuca Tall Shrubland/Low Woodland on recent dunes.

Description:

Low Woodland A of Melaleuca spp., over Very Open Dwarf Scrub.

Location 31:

Photo: DJB 84-52

Classification:

Eucalyptus uncinata Mallee on lake slopes.

Description:

Open Shrub Mallee of Eucalyptus uncinata and Eucalyptus foecunda, over Low Scrub A of Melaleuca uncinata and Hakea corymbosa, over Dwarf Scrub C including Grevillea pectinata, Cryptandra tomentosa and Acacia chrysella, over Open Low Sedges.

3.1.2. Vegetation Map

A vegetation map of the Dunn Rock Reserve is presented in Appendix 1. Because the map has been drawn from 1967 and 1968 aerial photographs, which show a markedly different pattern of burns than now exist, and because some stands in the interior of the reserve were not seen, this map must be considered provisional.

Several categories of vegetation are grouped together in the map. These include:

- .. associations that are too similar in structure to be distinguished on the aerial photographs,
- .. associations that have a wide and variable zone of intergradation,
- .. communities that occur as complexes, e.g. those on and around granite outcrops and small, dry lakes, and
- .. those stands that are very small or narrow, e.g. creek communities.

3.2 FLORA

The species of vascular plants recorded during the April 1984 field trip are listed in Appendix 5.

The best represented family in the reserve's flora, especially in terms of biomass, is Myrtaceae, particularly in the genera Eucalyptus and Melaleuca. The family Proteaceae is probably the second best-represented, especially in lateritic heath and on uplifted peneplain soils. The genus Acacia, important in much of the eastern wheatbelt vegetation, is relatively poorly represented in the Dunn Rock Nature Reserve.

There are two types of species of particular significance in the reserve.

To the first type belong the species recognised as probably being rare or geographically restricted, i.e. gazetted as rare species or listed in the report on geographically restricted species of the Wheatbelt. Such species that might be expected to occur in the reserve are listed in Appendix 5, Table 2. The names of species on this list that were recorded in the reserve are followed by the number of the location in which they were found. No gazetted rare species were found.

The second type of significant species is one having taxonomic interest. A large number of apparently undescribed species were collected and a few others that are described are of interest for their distribution patterns and variation pattern. Such species include Acacia ? latipes (DJB 145; Location 27), and Acacia aff. redolens (DJB 151; Location 29), Rulingia sp. (DJB 206, Location 39), Petrophile sp. (DJB 80, Location 14), Melaleuca sp. (DJB 199, Location 36).

3.3 FIRE

3.3.1 Fuel levels and Other Fire-related Factors

Two important characteristics of the vegetation that require consideration when formulating fire management policy are the considerable variability in litter accumulation rates among vegetation types and differences in maturation time of the associations. From the point of view of conserving the structural and floristic integrity of south-west Australian vegetation, fire regime cycles set below maturation time of the stand are generally considered undesirable. Estimates of time required for the various vegetation types within the reserve to reach maturity are shown in the Appendix 3 table, along with the estimated interval between fires before the stand will again carry a fire. Also shown in the table are litter cover estimates of sites typical of these vegetation types. The longer maturing, taller woodland types can usually be burnt before maturity without killing the overstorey and, because of patchy distribution of litter, are often difficult to burn (e.g. Eucalyptus salmonophloia woodland, Eucalyptus floetoniae woodland, and Eucalyptus kondininensis woodland). Most Eucalypts in the reserve are killed outright when burnt and require several decades to regenerate. Mallee vegetation will usually carry fire after 15 - 20 years, which is approximately 30% of stand maturation time.

3.3.2 Fire-breaks

Suggested alignment of internal fire-breaks is shown in

Figure 3. The principal factors considered in orientating them were the possibility of erosion and avoidance of boggy areas and woodland stands.

Existing peripheral fire-breaks show little evidence of erosion, although drainage lines and erosion-prone soils (e.g. Eucalyptus tetragona Shrub Mallee, Location 14) have been traversed. Breaks should be plowed only as frequently as required to keep clear of regrowth and weeds, allowing compaction of soils to occur.

4.0 RECOMMENDATION

The salt lake system in the north-east corner of the reserve deserves special mention. This relatively small area provides a diversity of habitat for both flora and fauna, and it is recommended that similar areas of vacant crown land adjoining the north would greatly enhance the value of the reserve. These areas should not be cleared for agriculture as this is known to result in salinity problems.

5.0 REFERENCES

Beard, J.S., 1972. The vegetation of the Newdegate and Bremerbay areas. Vegmap Pub., Sydney, 36 pp and map.

6.0 STUDY TEAM

The following participated in this study :

Co-ordination:

.. Wolf G. Martinick, Ph.D.

Botanists:

.. Arthur S. Weston, Ph.D.

.. Dennis Backshall, Ph.D.

.. Ken Newbey, Ph.M.

A P P E N D I C E S

APPENDIX 1	Vegetation Map
APPENDIX 2	Table of Landform Elements. Soils and Vegetation
APPENDIX 3	Fuel levels and other fire-related factors
APPENDIX 4	Diagrams of typical vegetation and soil sequences
APPENDIX 5	List of Species Table 1 - Vascular Plant Species Table 2 - Geographically Restricted Species that might occur in the Reserve.
APPENDIX 6	Proforma - Location Data Sheets
APPENDIX 7	Plates

APPENDIX 1

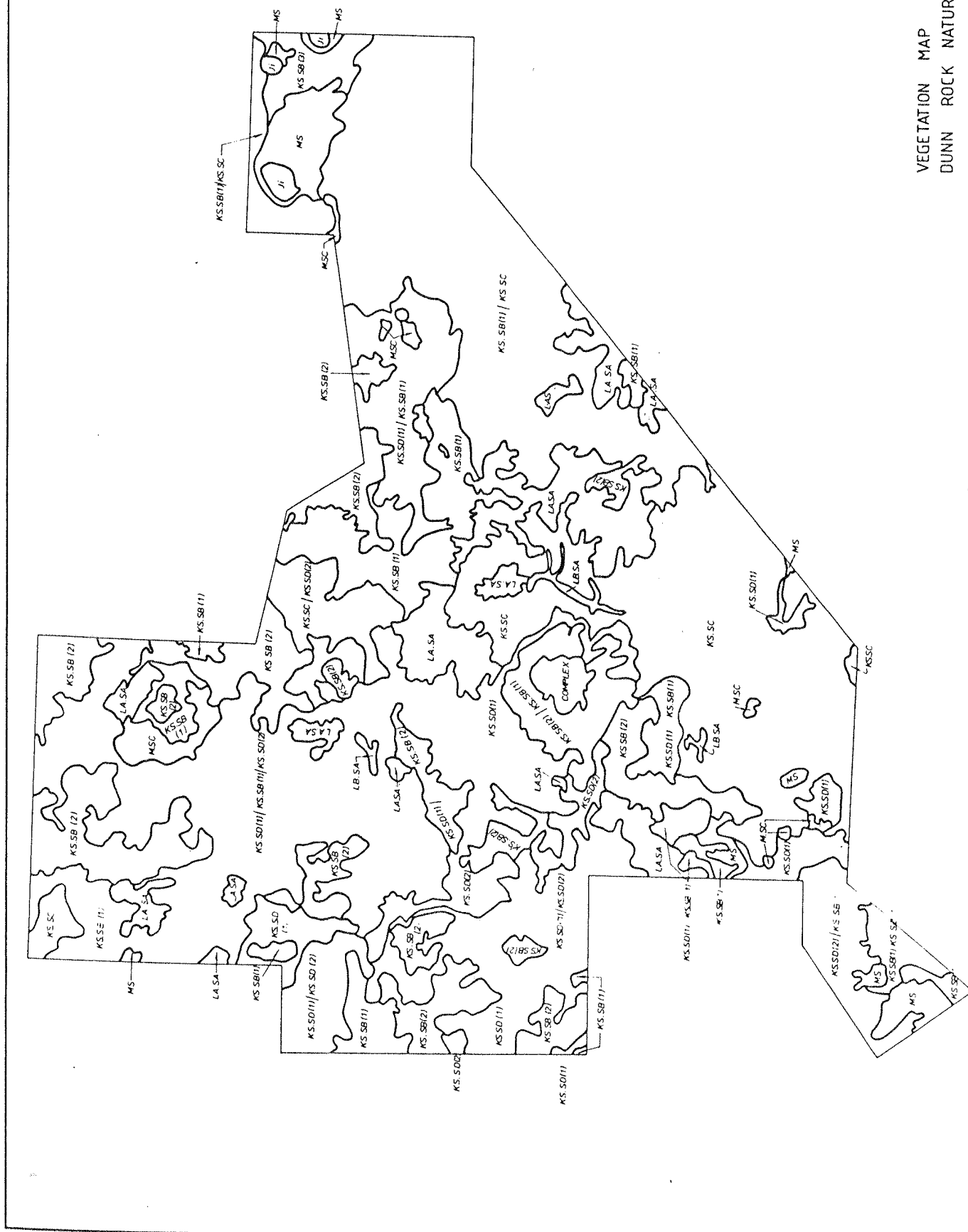
Vegetation Map

APPENDIX 1 - Vegetation Map

Mapping Units:

- KS.SC Eucalyptus transcontinentalis Mallee Heath
- KS.SD (1) Eucalyptus tetragona Mallee Heath
- KS.SD (2) Eucalyptus albida Mallee Heath
- KS.SB (1) Mixed spp. Mallee - Broombush (Melaleuca uncinata,
usually with Heath
- KS.SB (2) Lateritic Mallee (Eucalyptus tetragona and others) Heath
- LA.SA ^{Silver} Mallet (Eucalyptus falcata) Low Woodland.
- Ji Samphire (Halosarcia spp.) community
- M.SC Eucalyptus occidentalis Woodland, often a mosaic (see M.S)
- M.S Salmon Gum (Eucalyptus salmonophloia Woodland, generally
a mosaic with Eucalyptus flocktoniae Woodland, Eucalyptus
occidentalis Woodland, Teatree (Melaleuca) Tall Shrubland
and Open Mallee Heath (TS)
- KS.SB (3) Eucalyptus foecunda Mallee Scrub
- COMPLEX Granite outcrop complex
- SA (Allocasuarina campestris) community
- LB.SA Acacia lasiocalyx Scrub
- LA.S Eucalyptus gardneri Low Woodland
- Eucalyptus flocktoniae Woodland, often a mosaic (see M.S)

VEGETATION MAP
DUNN ROCK NATURE RESERVE



APPENDIX 2

Table of Landform Elements, Soils and Vegetation

APPENDIX 2 TABLE

LANDFORMS, SOILS AND VEGETATION OF THE DUNN ROCK NATURE RESERVE

Element	Soil	Vegetation Type	Loc.
BREAKAWAY*			
Summit	Well-drained skeletal stony sandy loam (U)	Eucalyptus falcata Low Woodland	
Slope	" " " " " (U)	Almost bare	
Pediment	Well-drained shallow sandy loam (G)	Eucalyptus falcata Low Woodland	
GRANITE EXPOSURE			
Soil sheets on exposure and inner apron	Variable-drained gritty loamy sands (U) Moderately-drained sandy loam (U-G)	Granite Complex Allocasuarina huegeliana Low Woodland	42
		Acacia lasiocalyx Low Woodland/Low Forest	43
		Eucalyptus occidentalis Low Woodland	44
		Eucalyptus salmonophloia Woodland	41
		Allocasuarina campestris Shrubland	
		Mixed Low Shrubland	1
		Acacia lasiocalyx Woodland/heath	24
Shallow soil	Well-drained loam (D) Well-drained sandy loams (D)		
SALT LAKE FEATURES			
Floor	Poorly-drained saline soils (V)	Halosarcia Low Shrubland/herbland	32
Fossil dunes	Well-drained aeolian loams (G)	Eucalyptus salmonophloia Woodland	29
	Well-drained aeolian clay loams (U)	Eucalyptus kondininensis Woodland	33
Recent dunes	Well-drained aeolian loams (G)	Melaleuca Shrubland/Low Woodland	36
Lake slope	Well-drained aeolian sandy loams (G)	Eucalyptus uncinata Mallee	31
SANDPLAIN			
Old peneplain	Well-drained gravelly sandy loam (G) Well-drained gravelly sand (D)	Eucalyptus falcata Low Woodland/Low Forest	39
		Lateritic Mixed Species Shrubland	21
		Eucalyptus albida Mallee	23
		Eucalyptus annulata Low Woodland/Low Forest	16
		Eucalyptus salubris Low Woodland/Low Forest	19
		Eucalyptus flocktoniae Low Woodland	18
		Eucalyptus redunca Mallee	
		Eucalyptus redunca Mallee	17
		Eucalyptus oelastroides Mallee	
		Eucalyptus transcontinentalis Mallee	12
		Eucalyptus eremophila Mallee	20
		Eucalyptus gardneri Low Woodland	2
		Eucalyptus tetragona Mallee	14
Old slope	Well-drained calcareous sandy loam (D or G) Well-drained sandy loam (D)		
New slope	Well-drained loamy sand (D)		
Drainage line	Well-drained clayey sand (D) Well-drained fine sandy loam (D) Well-drained clayey sand (D)		
Colluvial sand sheet	Well-drained white sand (D)		
BROAD VALLEY (Bottomland)			
Well-drained flats	Well-drained sands (D) Well-drained loamy sands (D) Well-drained clayey sands (D) Well-drained loams (D)	Open Mallee/heath Eucalyptus pileata Mallee Eucalyptus oelastroides Mallee Eucalyptus salmonophloia Woodland	30 35
Drainage line (outer)	Variable-drained alluvium (D)	Eucalyptus occidentalis Woodland	13
(inner)	Variable-drained & slightly saline alluvium (V)	Melaleuca Shrubland	9
Swamp*	Variable-drained alluvium (D)	Eucalyptus occidentalis Woodland	8
Depression	Variable-drained alluvium (D)	Eucalyptus occidentalis Low Woodland	26
Choked depression	Moderately-drained alluvium (D)	Eucalyptus foecunda Mallee	27

LEGEND

Landform units and elements follow the classification of Newbey & Milewski (in prep.).

* = Seen only on aerial photography; vegetation predicted from vegetation mapping south of reserve (KRN).

Soil: (D) = Duplex, (G) = Gradational, (U) = Uniform (Northcote 1971) and (V) = Variable.

Vegetation Types: Numbers in brackets are locations.

APPENDIX 3

Fuel Levels and Other Fire-related Factors

FUEL LEVELS AND OTHER FIRE RELATED FACTORS

Site	Vegetation Type	Est. Maturation Time (Yrs.)	Est. Highest Fire Frequency	Observed Litter Depth (cm)	Observed Litter Cover (%)
23	<i>E. albida</i> mallee on sandplain	45	15	1-2	10
17	<i>E. redunca</i> mallee on sandplain	50	15	1-10	35
12	<i>E. transcontinentalis</i> mallee on sandplain	45	15	1-2	15
20	<i>E. eromophila</i> mallee on sandplain	60	20	2-6	85
14	<i>E. tetragona</i> mallee on sandplain	50	15	1-2	5
30	Open mallee/heath on broad valley	50	12	-	2
35	<i>E. pileata</i> mallee on broad valley	40	15	2-4	20
27	<i>E. foecunda</i> mallee on broad valley	50	15	-	Not mature
11	Mixed low shrubland over granite	50	20	1-2	5
21	Lateritic tall shrubland on sandplain	45	15	1-3	25
8	<i>Melaleuca</i> shrubland on broad valley drainage line	60	Nil	1-3	5
24	<i>Acacia lasiocalyx</i> woodland/heath over granite	40	15	-	Patchy
42	<i>Allocasuarina huegeliana</i> low woodland/forest	50	15	2-4	70
43	<i>Acacia lasiocalyx</i> low woodland/forest	30	10	1-3	95
44	<i>E. occidentalis</i> woodland over granite	100	15	1-6	15
41	<i>E. salmonophloia</i> woodland over granite	100	Nil	-	Patchy
39	<i>E. falcata</i> low woodland/forest on sandplain	50	15	2-4	90
16	<i>E. annulata</i> low woodland/forest on sandplain	60	20	1-5	25
19	<i>E. salubris</i> low woodland/forest on sandplain	50	20	2-4	100
18	<i>E. floctoniae</i> woodland on sandplain	75	Nil	1-4	60
2	<i>E. gardneri</i> low woodland on sandplain	40	12	1-2	30
13	<i>E. salmonophloia</i> woodland on broad valley	100	Nil	1-5	8
9	<i>E. occidentalis</i> woodland on broad valley	75	12	1-5	10
28	<i>E. occidentalis</i> woodland on broad valley depression	70	30	-	Patchy
32	<i>Halosarcia</i> low shrubland on salt lake floor	30	Nil	-	-
29	<i>E. salmonophloia</i> woodland on fossil dunes	200	Nil	1-4	8
33	<i>E. kondininensis</i> woodland on fossil dunes	100	Nil	-	Patchy
36	<i>Melaleuca</i> tall shrubland/low woodland on recent dunes	35	Nil	-	Patchy
31	<i>E. uncinata</i> mallee on lake slopes	50	Nil	1-3	7

APPENDIX 4

Diagrams of Typical Vegetation and Soil Sequences

VEGETATION SEQUENCE ON SANDPLAIN TYPE B.

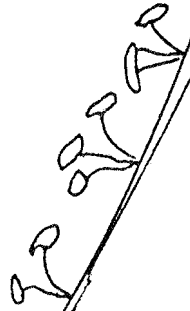
LATERAL TALL SHRUBLAND
OR

E. ALBIDA MALLEE.

E. TETRAGONA
MALLEE.



GRAVELLY SAND



E. TRANSCONTINENTALIS
MALLEE. OR LOW WOODLAND



FINE SAND

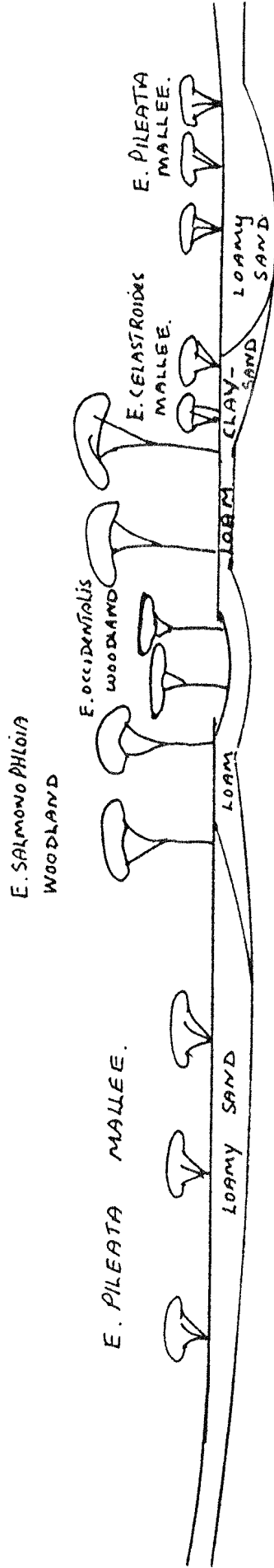
SANDY CLAY

KARLINIZED ZONE.

OLD PENEPLAIN

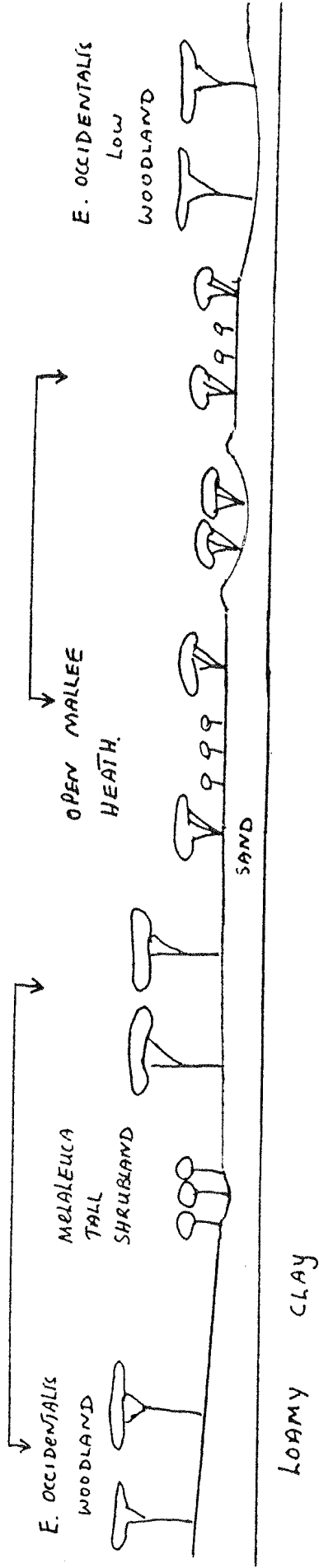
COLLUVIAL SAND SHEET.

Vegetation sequence on broad valley Type A



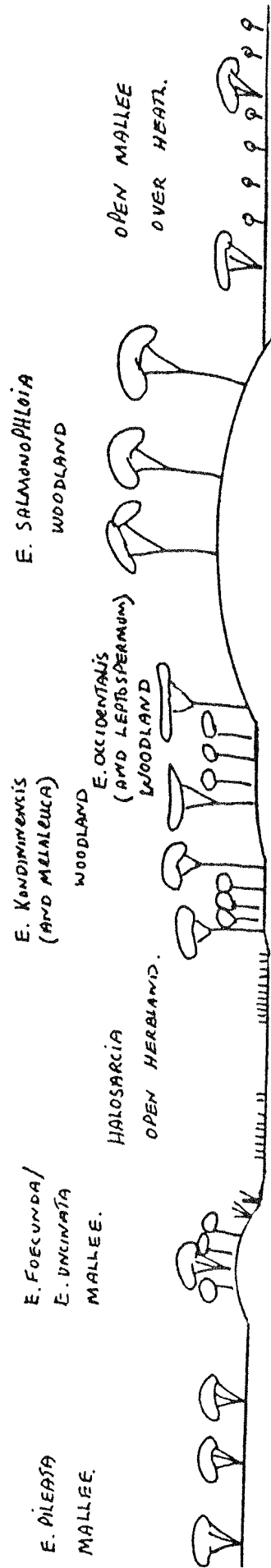
DEEPER SANDS	LOAMS	WATER GAINING	LOAMS	CLAYS	DEEPER SANDS
--------------	-------	---------------	-------	-------	--------------

Vegetation Sequence on Broad Valley TYPE B.



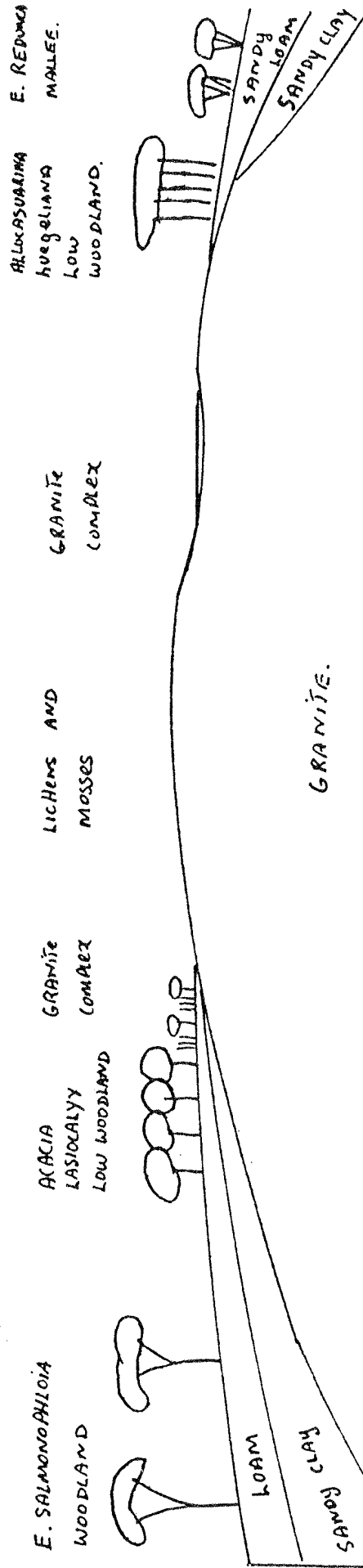
ALUVIUM	BRACKISH DEPRESSION	ALUVIUM	AEOLIAN SOIL SHEET	CHOKED DEPRESSION	SMALL DEPRESSION
---------	---------------------	---------	--------------------	-------------------	------------------

Vegetation Sequence on Salt Lake Perimeters



AEOLIAN SAND SHEET ON VALLEY FLOOR	RAISED LUNETTE	LAKE FLOOR - SALINE SILT	SLIGHTLY RAISED SANDY LOAM	MORE ELEVATED SANDS	LOAM TO CLAY LOAM. FOSSIL LAKE DUNES FORMED DURING WETTER PERIOD	AEOLIAN SAND.
------------------------------------	----------------	--------------------------	----------------------------	---------------------	--	---------------

VEGETATION SEQUENCE ON GRANITE EXPOSURES.



OUTER APRON - DEEPER SOILS	INNER APRON	ROCK	SOIL SHEET	ROCK	OUTER APRON	SANDALIN.
----------------------------	-------------	------	------------	------	-------------	-----------

Vegetation over GRANITE.

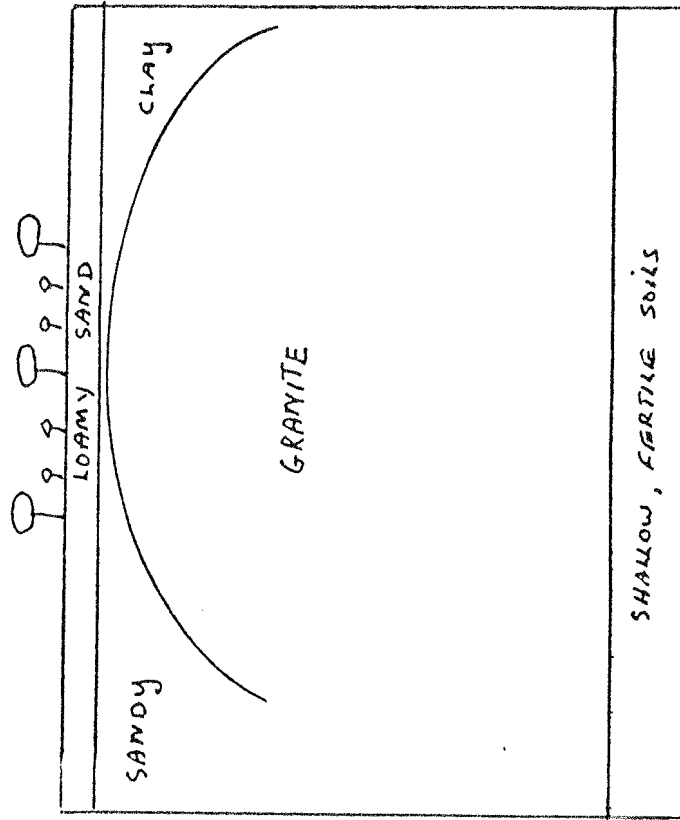
MIXED LOW SHRUBLAND

OR

ALLOCASTUAIRIA CANDESTRIS
TALL SHRUBLAND

OR

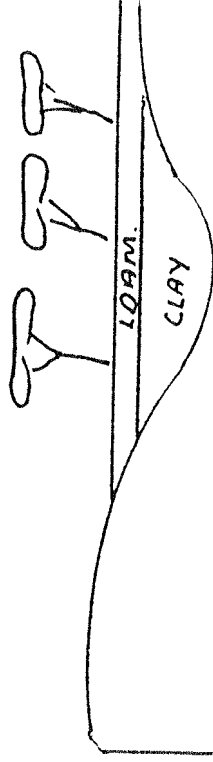
ACACIA LASIOCALYX HEATH



E. occidentalis

LOW

WOODLAND.



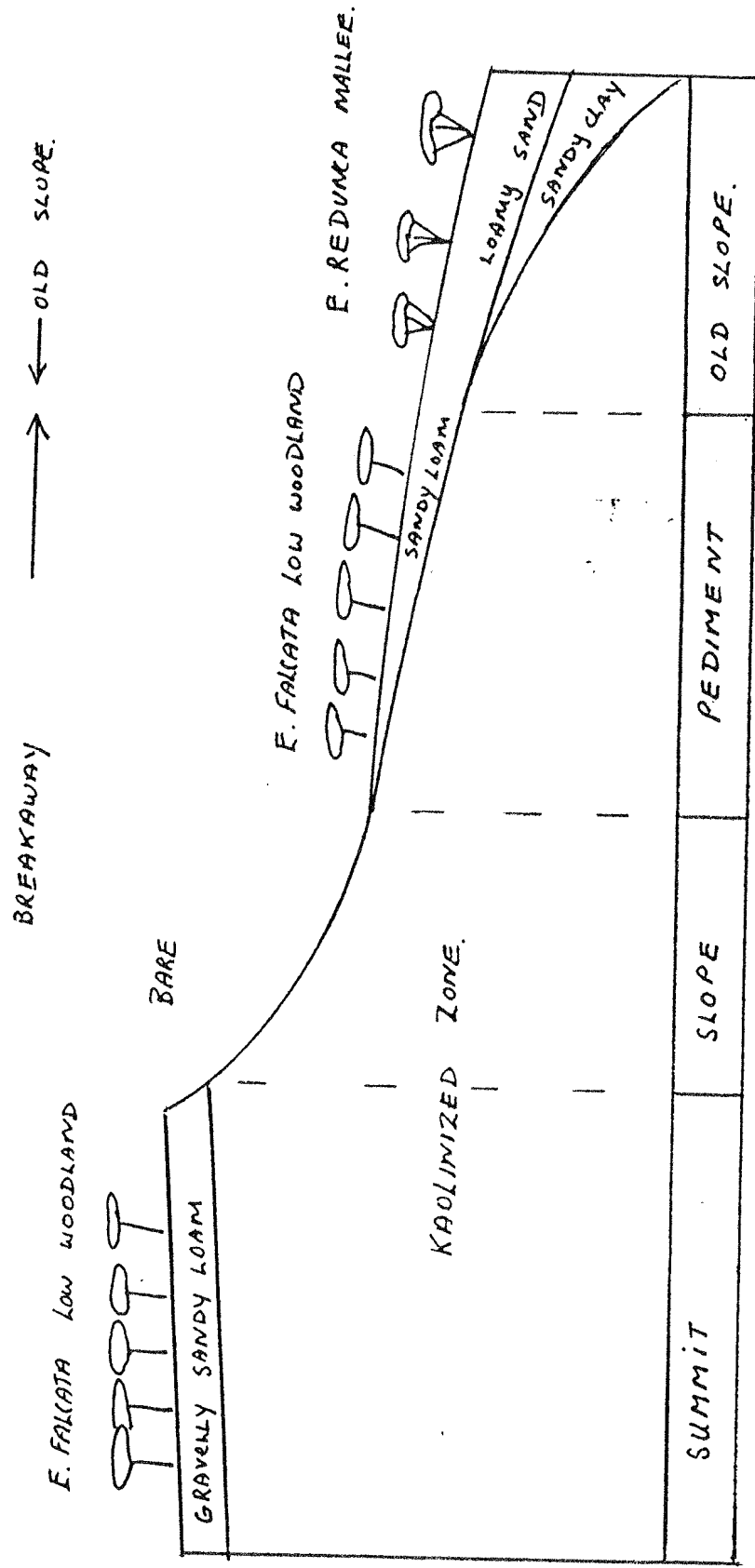
GRANITE

SHALLOW, FERTILE SOILS

WATER SHEDDING

WATER RETAINING

Vegetation sequence on breakaway slopes.



APPENDIX 5

Lists of Species

TABLE 1

List of Vascular Plant Species observed in the Reserve.

CUPRESSACEAE	<p>Callitris canescens (Parl.) S. T. Blake</p> <p>Callitris preissii Miq. ssp. verrucosa</p> <p>Callitris roei (Endl.) F. Muell.</p>
POACEAE	<p>Stipa juncifolia Hughes</p>
CYPERACEAE	<p>Gahnia ancistrophylla F. Muell.</p> <p>Gahnia australis (Nees) K. L. Wilson</p> <p>Lepidosperma brunonianum Nees</p> <p>Lepidosperma drummondii Benth.</p> <p>Lepidosperma pruinsum Kuekenthal</p> <p>Lepidosperma aff. resinosum (Nees) Benth.</p> <p>Mesomelaena preissi Nees</p> <p>Mesomelaena stygia (R. Br.) Nees</p> <p>Schoenus sp. DJB 228</p>
RESTIONACEAE	<p>Harperia lateriflora W. V. Fitzg.</p> <p>Loxocarya myrioclada Gilg.</p>
LILIACEAE	<p>Dianella revoluta R. Br.</p> <p>Lomandra effusa (Lindl.) Ewart</p> <p>Lomandra micrantha (Endl.) Ewart ssp. teretifolia</p> <p>Stypandra imbricata R. Br.</p> <p>Xanthorrhoea ? reflexa D. A. Herbert</p>
CASUARINACEAE	<p>Allocasuarina campestris subsp. campestris (Diels) L. Johnson</p> <p>Allocasuarina huegeliana (Miq.) L. Johnson</p> <p>Allocasuarina microstachya (Miq.) L. Johnson</p> <p>Allocasuarina pinaster (C. A. Gardner) L. Johnson</p>
PROTEACEAE	<p>Adenanthos glabrescens ssp. glabrescens Nelson</p> <p>Banksia media R. Br.</p> <p>Banksia violacea C. A. Gardner</p> <p>Dryandra aff. armata R. Br.</p> <p>Dryandra erythrocephala C. A. Gardner</p> <p>Dryandra ferruginea Kipp. ex Meisn.</p> <p>Dryandra aff. pteridifolia R. Br.</p> <p>Dryandra sp. DJB 23</p>

PROTEACEAE

Grevillea armigera Meisn.
Grevillea disjuncta F. Muell.
Grevillea hookeriana Meisn.
Grevillea huegelii S. Moore
Grevillea patentiloba F. Muell.
Grevillea pectinata R. Br.
Grevillea shuttleworthiana Meisn.
Hakea commutata F. Muell.
Hakea corymbosa R. Br.
Hakea crassifolia Meisn.
Hakea aff. falcata R. Br.
Hakea laurina R. Br.
Hakea multilineata Meisn.
Hakea nitida R. Br.
Hakea obliqua R. Br.
Hakea sp. DJB 95
Hakea sp. DJB 130
Isopogon buxifolius R. Br.
Isopogon teretifolius R. Br.
Isopogon villosus Meisn.
Persoonia angustiflora Benth.
Persoonia teretifolia R. Br.
Petrophile circinata Kipp. ex Meisn.
Petrophile seminuda Lindl.
Petrophile squamata R. Br.
Petrophile sp. DJB 80
Stirlingia tenuifolia (R. Br.) Steud.
Synaphea polymorpha R. Br.

SANTALACEAE

Choretrum glomeratum R. Br.
Exocarpos aphyllus R. Br.
Exocarpos sparteus R. Br.
Leptomeria pauciflora R. Br.
Santalum acuminatum (R. Br.) A. DC.

CHENOPODIACEAE

Atriplex cinerea Poir.
Atriplex vesicaria Heward ex Benth.
Halosarcia halocnemoides (Nees) P. G. Wilson
Halosarcia pergranulata (J. M. Black) P. G. Wilson

AIZOACEAE

Carpobrotus rossii (Haw.) Schwantes
Disphyma crassifolium (L.) L. Bolus

PITTOSPORACEAE *Sollya heterophylla* Lindl.

LEGUMINOSAE subfam. MIMOSOIDEAE

Acacia chrysella Maiden & Blakely
Acacia glaucoptera Benth.
Acacia laricina Meisn.
Acacia lasiocalyx C. Andrews
Acacia latipes Benth.
Acacia ligulata A. Cunn. ex Benth.
Acacia microbotrya Benth.
Acacia saligna (Labill.) H. L. Wendl.
Acacia sessilispica Maiden & Blakely
Acacia viscifolia Maiden & Blakely

LEGUMINOSAE subfam. CAESALPINIOIDEAE

Cassia nemophila A. Cunn. ex Vogel

LEGUMINOSAE subfam. PAPILIONOIDEAE

Daviesia benthamii ssp. *benthamii* Meisn.
Daviesia lancifolia Turcz.
Daviesia sp. DJB 102
Daviesia sp. DJB 122
Dillwynia uncinata (Turcz.) J. M. Black
Gastrolobium crassifolium Benth.
Pultenaea aff. *adunca*, Turcz.
Templetonia sulcata (Meisn.) Benth.

RUTACEAE

Boronia inornata Turcz.
Microcybe albiflora Turcz.
Microcybe multiflora Turcz.
Phebalium filifolium Turcz.

EUPHORBIACEAE

Beyeria lechenaultii (DC.) Baill.

SAPINDACEAE

Dodonaea amblyophylla Diels
Dodonaea ceratocarpa Endl.

Dodonaea pinifolia Miq.

RHAMNACEAE

Cryptandra tomentosa, Lindl.
Cryptandra sp. DJB 92
Spyridium cordatum (Turcz.) Benth.

MALVACEAE	Lawrencia squamata Nees ex Miq.
STERCULIACEAE	Rulingia sp. DJB 206 Thomasia angustifolia Steud.
DILLENIACEAE	Hibbertia enervia (DC.) Hoogl.
FRANKENIACEAE	Frankenia tetrapetala Labill.
THYMELAEACEAE	Pimelea argentea R. Br.
MYRTACEAE	Agonis spathulata Schauer Baeckea corynophylla F. Muell. Baeckea crispiflora F. Muell. Beaufortia micrantha Schauer Beaufortia schaueri Preiss ex Schauer Callistemon phoeniceus Lindl. Calothamnus gracilis R. Br. Calothamnus quadrifidus R. Br. Eremaea pauciflora, (Endl.) Druce Eucalyptus albida Maiden & Blakely Eucalyptus annulata Benth. Eucalyptus astringens (Maiden) Maiden Eucalyptus brachycorys Blakely Eucalyptus celastroides Turcz. Eucalyptus conglobata (R. Br. ex Benth.) Maiden Eucalyptus eremophila (Diels.) Maiden Eucalyptus falcata Turcz. Eucalyptus flocktoniae (Maiden) Maiden Eucalyptus foecunda Schauer Eucalyptus gardneri Maiden Eucalyptus incrassata Labill. Eucalyptus kondininensis Maiden & Blakely Eucalyptus occidentalis Endl. Eucalyptus pileata Blakely Eucalyptus redunca Schauer Eucalyptus salmonophloia F. Muell. Eucalyptus salubris F. Muell. Eucalyptus spathulata Hooker ssp. grandiflora Eucalyptus tetragona (R. Br.) F. Muell. Eucalyptus transcontinentalis Maiden Eucalyptus uncinata Turcz.

MYRTACEAE

Leptospermum erubescens Schauer
Leptospermum oligandrum Turcz.
Leptospermum roei Benth.
Melaleuca acuminata F. Muell.
Melaleuca adnata Turcz.
Melaleuca bracteosa Turcz.
Melaleuca brevifolia Turcz.
Melaleuca cardiophylla var. *parviflora* F. Muell.
Melaleuca cucullata Turcz.
Melaleuca cymbifolia Benth.
Melaleuca elliptica Labill.
Melaleuca holosericea Schauer
Melaleuca lanceolata Otto
Melaleuca lateralis Turcz.
Melaleuca lateriflora Benth.
Melaleuca lateritia A. Dietr.
Melaleuca laxiflora Turcz.
Melaleuca aff. *leptospermoides* Schauer
Melaleuca pentagona Labill.
Melaleuca pungens Schauer
Melaleuca subfalcata Turcz.
Melaleuca thyoides Turcz.
Melaleuca uncinata R. Br.
Melaleuca sp. DJB 18
Melaleuca sp. DJB 91
Melaleuca sp. DJB 108
Melaleuca sp. DJB 192
Melaleuca sp. DJB 199
Melaleuca sp. DJB 229
Regelia inops Schauer
Thryptomene australis Endl.

APIACEAE

Platysace effusa (Turcz.) Norman

EPACRIDACEAE

Astroloma epacridis (Dc.) Druce
Astroloma aff. *microphyllum* Stschegl.
Coleanthera myrtoides Stschegl.
Leucopogon cuneifolius Stschegl.
Leucopogon fimbriatus Stschegl.
Leucopogon polymorphus Sonder

APOCYNACEAE

Alyxia buxifolia R. Br.

CONVOLVULACEAE	<i>Wilsonia humilis</i> R. Br.
LAMIACEAE	<i>Westringia cephalantha</i> F. Muell.
ASTERACEAE	<i>Olearia muelleri</i> (Sonder) Benth. <i>Olearia revoluta</i> F. Muell. ex Benth. <i>Senecio quadridentatus</i> Labill.

APPENDIX 5

TABLE 2

Geographically Restricted Species that might occur in the Reserve.

<i>Acacia deflexa</i>	<i>Grevillea involucrata</i>
<i>Adenanthos gracilipes</i>	<i>Grevillea prostrata</i>
<i>Acrotriche ramiflora</i>	<i>Isandra bancroftii</i>
<i>Allocasuarina pinaster</i> (Site 21)	<i>Lachnostachys bracteosa</i>
<i>Baeckea</i> sp. nov. 1	<i>Melaleuca agathosmoides</i>
<i>Boronia capitata</i> ssp. <i>clavata</i>	<i>Myoporum salsoloides</i>
<i>Bossiaea divaricata</i>	<i>Oxylobium rigidum</i>
<i>Calothamnus planifolius</i>	<i>Opercularia liberiflora</i>
<i>Dryandra foliosissima</i>	<i>Physopsis lachnostachya</i>
<i>Eremophila biserrata</i>	<i>Pultenaea empetrifolia</i>
<i>Eremophila</i> aff. <i>subteretifolia</i>	<i>Rulingia platycalyx</i>
<i>Eutaxia cuneata</i>	<i>Thysanotus lavanduliflorus</i>
<i>Eucalyptus caesia</i>	<i>Tegicornia uniflora</i>
<i>Gastrolobium densifolium</i>	<i>Thelymitra psammophila</i>
<i>Gonocarpus trichostachyus</i>	<i>Verticordia staminosa</i>

APPENDIX 6

Proforma - Location Data Sheets

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 1

Date:

Photo No: 84-1 (Roll 1)

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

dimasi

Stratum 1	Height	% Cover
Dominants		
<i>E. Pileata</i> SP1	5-6m	15%
<i>BANKSIA media</i> SP2	3-4	5
Stratum 2		
Dominants		
<i>M. uncinata</i> SP3	1.5-2	20
Stratum 3		
Dominants		
<i>M. pentagona</i> SP4	0.5-1.0	30
Stratum 4		
Dominants		

Notes &/or description:

KSC - SAC - SCC

Open shrub mallee of *E. pileata*
scrub A of *M. uncinata*, over dwarf scrub C,
(*M. pentagona*)

occasional species:

Santalum acuminatum
Exocarpos sparteus

Years since last burnt:

240 yrs

Intensity of burn:

Litter depth & density: 1-2cm deep, ~15% cover, Mallee bark and Mel. leaf

Soil Texture: light yellowish brown sandy loam with light tubular gravel.

Soil colour (Munsell):

10 yr 6/

Ersion present: NO

Erosion potential: V. light.

Degree slope: 0°

Comments: Very common community type in reserve. Species diversity poor.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 2

Date:

Photo No: 84-3

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants <i>E. gardneri</i> SP6	6-8 m	25
Stratum 2		
Dominants <i>M. uncinata</i>	2-3	30
Stratum 3		
Dominants <i>RUBINGIA</i> unnamed SP8 <i>ACACIA</i> <i>VISCIFOLIA</i> SP9	.25 - .5 .5 - .7	10 15
Stratum 4		
Dominants		

Notes &/or description:

L A i . S i . S c i

low woodland A (*E. gardneri*) over sparse scrub (*M. uncinata*)
over dwarf scrub c.

Years since last burnt: >40

Intensity of burn: ~

Litter depth & density: 1-2 cm, 30% cover, Mallee stems, plus branches & leaves.

Soil Texture: yellowish brown sandy-clay loam. Soil colour (Munsell): 10YR 5/4.

Erosion present: No

Erosion potential: Moderate, if plowed.

Degree slope: valley floor, draining 1-2°.

Comments:

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 2

Date:

Photo No: 84-4

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants		
<i>E. salubris</i> SP10	7-8	30
<i>E. eremophila</i> SP11	5-7	10
Stratum 2		
Dominants		
<i>M. cucullata</i> SP12	1.5-2.0	25-30
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: LAi. SAi

Low woodland A of gumlet (*E. salubris*) over low scrub A of *M. cucullata*

Years since last burnt: >40

Intensity of burn:

Litter depth & density: 1-2cm, v. thin cover, luc. leaves & twigs.

Soil Texture: Brown sandy clay,
slight surface cracking.

Soil colour (Munsell): 10YR 5/3

Erosion present: No

Erosion potential: Low

Degree slope: 1°

Comments: Not a common community type, usually localized.

Low species diversity, with occasional species *Exocarpos aphyllus*,
Olearia muelleri.

Date:

Photo No:

84-5

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 2.
(Tallest stratum is No. 1)

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants <i>E. Transcontinentalis</i> SP16	4-5	15
Stratum 2		
Dominants <i>metaleuca pentagona</i> SP17	1 - 1.5	20-30
<i>metaleuca unnamed</i> SP18	1 - 1.5.	20-30
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

Ksc . Sbi .

open shrub mallee of reedwood. (*E. Transcontinentalis*) over a low scrub B. of

Years since last burnt:

>40

Intensity of burn: -

Litter depth & density: 1-2cm. , ~ 10% cover , mainly Mol. twigs .

Soil Texture: Pale brown hard-setting
sandy loam with laterite gravel - possibly hard pan.

Soil colour (Munsell): 10YR 6/3

Erosion present: No

Erosion potential: V. Light.

Degree slope: 1-2°

Comments:

Additional occasional species SP19 *DAVIESIA benthamii* SSP.SP20 *metaleuca cardiophylla* var
*haruifera**E. Pileata**E. Bromophila**E. Bromophila* (a form)

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 5

Date:

Photo No:

84-6

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants		
<i>E. tetragona</i> SP21	5-7	5-10
<i>E. Albida</i> SP22	5-7	5-10
Stratum 2		
Dominants		
<i>Dryandra</i> unnamed sp. SP23	1.5-2	10
<i>Hakea AFA FALLATA</i> SP24	1-1.5	5
<i>HAKea CRASSIFOLIA</i> SP25	1-1.5	3
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: KSc. SBe.

Mixed open shrub mallee
over low scrub

Years since last burnt: >40

Intensity of burn: 10 yr 6/4

Litter depth & density: 1-2 cm., v. light 5-10%, leaves of heath spp.

Soil Texture: light yellowish brown sandy
loam over laterite. Soil colour (Munsell):

Ersion present: No

Erosion potential: light.

Degree slope: 1°

Comments: Distinct veg. type on laterite, diverse shrub understorey

additional species SP 29 *Isopogon Teretifolius* *E. INCRASSATA*
SP 30 *Grevillea hookeriana* *E. pedunculata*
SP 28 *Calothamnus gracilis* *E. PILATA*
SP 26 *Banksia violacea*
SP 27 *Petrophile circinata*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 6

Date:

Photo No:

6

Photo Direction:

0

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>E. erumophila</i> SP31	2-4	5
<i>E. FOECUNDA</i> SP32	1.5 - 2.5	20
<i>E. brachycorys</i> SP35	1.5 - 2.5	5
Stratum 2		
Dominants <i>M. uncinata</i>	1 - 1.5	25
Stratum 3		
Dominants <i>M. pentagona</i> SP33	0 - 0.5	25.
Stratum 4		
Dominants		

Notes &/or description: Ksc. SBc. SDc.

Mixed shrub mallee over low scrub B of
over low open sedges.

Years since last burnt: >30

Intensity of burn: -

Litter depth & density: 1-2cm, V. light 5-10% cover, fine leaves and occasional stems.

Soil Texture: Brown sandy loam with
light laterite gravel.

Soil colour (Munsell): 10YR 5/3

Ersion present: No.

Erosion potential: V. high.

Degree slope: 2°

Comments:

Occasional species in 2nd layer *Exocarpos sparteus* SP3;
LOCATION OUTSIDE OF RESERVE, TAKEN TO AID PHOTO-INTERPRETATION.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 7

Date:

Photo No:

84-8

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants		
E. TRANSCONTINENTALIS SP37	2.5-3.5	5-10
E. PILEATA SP39	2-3	5-10
E. BROMOPHILA SP41	2-3	5-10
E. SPATHULATA ssp 61. SP40	2-3	5-10
Stratum 2		
Dominants		
M. uncinata	1-1.5	15-20
Stratum 3		
Dominants		
metaleuca lateriflora SP43	1.5-1	10
metaleuca ? laxiflora SP44	1.5-1	10
M. pentagona SP36	1.5-1	15
Stratum 4		
Dominants		

Notes &/or description: Ksi · Sbi · Sec

Mixed open shrub mallee over low scrub B
over low heath c with low open sedges.

Years since last burnt: >46

Intensity of burn:

Litter depth & density: ~1cm, v. sparse, ~5% cover.

Soil Texture: light yellowish brown soil,
deep sandy loam.

Soil colour (Munsell): 10Yr 6/4

Erosion present: No

Erosion potential: Light-moderate

Degree slope: ~1°

Comments: Mallee strata diverse, strata 3 dense, even distribution of
species, sparse sedge cover. Occasional species

SP 19. DAVIESIA BENTHAMII ssp
SP 42. GREVILLEA PECTINATA benth.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 8

Date:

Photo No: 84-9

Photo Direction: 0

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants <i>Leptospermum oligandrum</i> SP 54	2.0	5
Stratum 2		
Dominants <i>Melaleuca brexifolia</i> SP 45	1-1.5	50
<i>Gahnia australis</i> SP 46	1-1.5	10
<i>Melaleuca halmensis</i> SP 49	1-1.5	5
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

SAr. SB.

low open *Leptospermum* shrub A over heath B
and sedges.

Years since last burnt:

>30

Intensity of burn: -

Litter depth & density: 1-3 cm, ~5% cover.

Soil Texture: Greyish Brown sandy
loam.

Soil colour (Munsell): 10YR 5/2.

Erosion present: slight

Erosion potential: Moderate.

Degree slope: 2°

Comments:

Melaleucas and sedge dominate.
Trough of drainage line. Peripheral vegetation
include Yate, *Santalum acuminatum*, *Isopogon bursifolius*,
Hakea obliqua, SP 51 *Melaleuca* aff *jungens*.
Hakea corymbosa

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 9

Date:

Photo No:

84-10

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants <i>E. occidentalis</i>	14-16	4
Stratum 2		
Dominants <i>Leptospermum oligandrum</i> SP54	2.5	40
Stratum 3		
Dominants <i>Corocarya myriachada</i>	10cm	10%.
Stratum 4		
Dominants		

Notes &/or description:

Mr. Sc. Vir.

open woodland of yate, over *Leptospermum* thicket, over very open ^{low} sedges.

Years since last burnt:

> 30

Intensity of burn: -

Litter depth & density: 1-5cm, 10% cover, small sticks & leaves.

Soil Texture: Pale brown sand.

Soil colour (Munsell): 10YR 6/3

Expsion present: No

Erosion potential: Moderate.

Degree slope: ~~no~~ 1-3°

Comments:

Salt lake lunette vegetation.
Yate over tall *Leptospermum* scrub.
(ignore low shrubs in foreground of photo 84-10, NOT typical of community)

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 10

Date:

Photo No: 84-11

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants <i>E. uncinata</i> SP56	4-5	10%
<i>E. spathulata</i> var <i>grandiflora</i> SP57	3-4	20
Stratum 2		
Dominants <i>M. holosericea</i>	1-1.5	40
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

Ksi. SBc.

mixed open shrub mallee over heath B over
shale sedges.

Years since last burnt: >30

Intensity of burn:

Litter depth & density: 2-5 cm, 20% cover

Soil Texture: V. light brown sand Soil colour (Munsell): 10YR 7/4

Erosion present: No

Erosion potential: Low

Degree slope: <1°

Comments:

Occasional *M. uncinata* in 2nd strata -
Species: *E. transcendentalis*
Metaleuca spp.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 11

Date:

Photo No:

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage: *Chmasc.*

Stratum 1	Height	% Cover
Dominants <i>Grevillea shuttleworthiana</i> SP58	1-2.5	3
Stratum 2		
Dominants <i>Petrophile seminudata</i> SP59 <i>Melaleuca aff. leptospermoides</i> SP61 <i>Callitris roei</i> SP62 <i>Acacia campestri</i> ssp SP60	0-.5 0-.5 0-.75 0-.5	3 5 2 2
Stratum 3 <i>campestri</i>		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: *SAr.SDi.*

Low open scrub A over dwarf scrub D, over sparse sedge. (Mesomelaena stygia)

Years since last burnt: >30

Intensity of burn:

Litter depth & density: 1-2cm, 5% cover, mainly small sticks & twigs.

Soil Texture: *Pale brown sandy loam over latite.*

Soil colour (Munsell): 10 yr 6/3

Ersion present: No

Erosion potential: *V. light.*

Degree slope: 1-2°

Comments: *Occasional species: M. uncinata*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 12

Date:

Photo No: 84-14, 15 Photo Direction: 0

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants		
<i>E. Transcontinentalis</i>	4-5	10
<i>E. evomophilla</i>	2	1
<i>E. celsoides</i>	2	1
Stratum 2		
Dominants		
<i>Melaleuca bracteosa</i>	5-12	60
<i>M. sp. (incens)</i> 5229	5-10	10
<i>M. cardiophylla</i>	5-10	1-3
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: Ks c. S. d.

Mixed open shrub mallee over dense low heath D.

Years since last burnt: >40

Intensity of burn: -

Litter depth & density: 1-2 cm, 10-15% cover.

Soil Texture: light grey sandy loam. Soil colour (Munsell): 10 yr 7/2.

Ersipion present: No

Erosion potential: Light.

Degree slope: 0-1

Comments: Occasional species: *Acacia glaucoptera*, *Exocarpos aphyllus*,
Hakea commutata, *Dianella revoluta*, *Grevillea pectinata*,
Melaleuca subfalcata, *Wilsonia humilis*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 13

Date:

Photo No:

84-18

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants <i>E. salmonophloia</i>	18-20	8
Stratum 2		
Dominants <i>E. pileata</i>	4-5	10
Stratum 3		
Dominants <i>Templetonia sulcata</i>	0-0.5	1
<i>Paviesia benthamii</i> subsp. benth.	0-0.5	2
<i>Acacia erinacea</i>	0-10cm	5
Stratum 4 <i>Acacia viscidifolia</i>	0-0.5	2
Dominants <i>Leptosperma aff. retinosum</i>	0-0.3	4
<i>L. brunonianum</i>	0-10cm	1

Notes &/or description:

Mr. Ksr. Sdr. Vir.

open woodland of salmon gum over very open shrub mallee
over open dwarf scrub & over very open low sedges.

Years since last burnt:

> 40

Intensity of burn:

Litter depth & density: 1-5cm, ~8% cover, Leaves, Twigs, some branches

Soil Texture: Brown sandy loam over
clayey loam.

Soil colour (Munsell): 10 YR 4/3

Ersion present: No

Erosion potential: Light - moderate

Degree slope: 2-3

Comments:

Mallees encroach into woodland, but not in
low-lying areas. Occasional species: *Santalum acuminatum*
Grevillea huegelii, *Melaleuca acuminata*.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 14

Date:

Photo No: 84-19.

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3.
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
<i>E. Tetragona</i>	3-4	5-8
Stratum 2		
Dominants		
<i>Daviesia inaequalis</i> subsp. (MS.)	0-0.5	1
<i>Beaufortia micrantha</i>	"	1
<i>Calathamnus gracilis</i>	"	1
<i>Dryandra ferruginea</i>	"	2-3
Stratum 3		
Dominants		
<i>Mezomelaena stygia</i>	0-20cm	5
<i>Harperia lateriflora</i>	0-10cm	6
Stratum 4		
Dominants		

Notes &/or description: Ksr - Sdi - VI

Very open shrub mallee of Tallera, over dwarf scrub D,
over very open low sedges.

Years since last burnt: ~ 15

Intensity of burn: Moderate, odd
trees left.

Litter depth & density: 1-2cm, thin, ~2-5% cover.

Soil Texture: light brownish grey fine
sand, deep.

Soil colour (Munsell): 10 yr 7.6/2

Ersion present: No

Erosion potential: high.

Degree slope: 1-2.

Comments: Very light sands, prone to wind-drift.

Occasional species: *Dryandra aff. teretifolia**Emmea pauciflora*, *Hakea crassifolia*, *H. corymbosa*,
Banksia violacea.Rare species: *Petrophile spinella* is also sparsely present

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 15

Date:

Photo No: 84-22.

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3. Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants	6-7	40
<i>E. FALCATA.</i>	7-8	5
<i>B. ASTRINGENS</i>	6-7	2
<i>B. GARDNERII</i>	6-7	30
Stratum 2 <i>B. INCRASSATA</i>	6-7	
Dominants		
<i>M. uncinata.</i>	1.5-2	10
<i>Hakea laurina</i>	1.5-2	1
Stratum 3		
Dominants		
<i>Acacia LARICINA</i>	0-0.5	5
<i>SPYRIDIMUM cordatum</i>	0-0.5.	10
Stratum 4		
Dominants		

Notes &/or description: LAC · SAR · SDC.

low forest A of Mallet (and mixed Eucs), over low open scrub A, over dwarf scrub D.

Years since last burnt: >40

Intensity of burn:

Litter depth & density: 0-5cm, ~30%, Mallet bark and leaves.

Soil Texture: pale brown sandy loam with some laterite gravel.

Soil colour (Munsell): 10YR 6/3.

Erosion present: No

Erosion potential: V. Light.

Degree slope: 2-3°

Comments:

A variation on Mallet thickets common in the reserves. Occasional species: *Doctonea amblyophylla*, *Adenanthera glabrescens* subsp. *glabrescens*, *Oxylotium parviflorum*, *Lepidospermum aff. resinosum*.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 16

Date:

Photo No: 81524

Photo Direction: 0

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants <i>E. ANNULATA</i>	3-5	60
Stratum 2		
Dominants <i>EXOCARPUS APHYLLUS</i>	0.5 - 1	7
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

LBC . Scr.

low forest of *E. ANNULATA* over open dwarf scrub c.

Years since last burnt:

>40

Intensity of burn:

Litter depth & density: 1-5cm , ~25% cover.

Soil Texture: Light brownish grey loamy clay

Soil colour (Munsell): 10Yr 6/2.5

Erosion present: no

Erosion potential: V Low.

Degree slope: 1°

Comments: Water gaining area, winter logging.

occasional species *Hahea commutata*, *Cryptandra* sp.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 17

Date:

Photo No: (Roll. 2)
8 4-26.

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants		
<i>E. redunca</i>	4-5	30
<i>E. uncinata</i>	3-4	10
<i>E. eromophila</i>	3-4	5
Stratum 2		
Dominants		
<i>M. uncinata</i>	1-1.5	15
<i>Leavesia benthamii</i> subsp. <i>lenth.</i>	0.5-0.8	1
Stratum 3		
Dominants		
<i>Hydrum corollatum</i>	0-10cm	15
<i>Ludopharma drummondii</i>	0-20cm	1
Stratum 4		
Dominants		

Notes &/or description: Ksc. Sbi, SDC

Mixed shrub mallee over low scrub B over
dwarf scrub D.

Years since last burnt: 246

Intensity of burn:

Litter depth & density: 0-10cm 35-40% cover, Mallee sticks & leaves

Soil Texture: light yellowish brown loam with gravel Soil colour (Munsell): 10YR 6/4

Erosion present: No

Erosion potential: V. low

Degree slope: 2-3°

Comments:

occasional species: *Hakea commutata*
Metaleucax pentagona
Grevillea disjuncta
Westringia cephalantha

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 18

Date:

Photo No: 84-28

Photo Direction: 0

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants		
<i>E. FLOCKTONIAE.</i>	15	15
<i>E. ANNULATA</i>	12	5
Stratum 2		
Dominants		
<i>Dawsonia</i> sp (incident) 122	2-3.5	1
<i>Melaleuca</i> sp (") 199	2-3.0	1
<i>M. acuminata</i>	1-2	1
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

Mi. Sr.

Woodland of Merriit over open scrub.

Years since last burnt: 240

Intensity of burn:

Litter depth & density: 0-4cm, ~60% cover, Euc. leaves, bark & twig.

Soil Texture: Brown hardsetting loam

Soil colour (Munsell): 10 Y/ 5/3

Ersion present: No

Erosion potential: V. low

Degree slope: 1-2°

Comments: *E. annulata* and shrubs densest on periphery.Occasional species: *E. pilcata**E. spathulata* var *grandiflora**Grevillea pectinata**Acacia erinacea*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 19

Date:

Photo No:

84 - 30

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

2

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>E. salubris</i>	6-12	60
Stratum 2		
Dominants <i>Melaleuca aff. cuticularis</i> <i>M. cardiophylla</i>	.5 - 2 .5 - 1	10 25
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

LAC . SCC.

low forest A of gimlet, over low heathc.

Years since last burnt:

~ 30 yr.

Intensity of burn:

Litter depth & density:

2-4 cm.

100% cover beneath *E. salubris*.

Soil Texture:

Brown hardsetting loam
(clayey)

Soil colour (Munsell):

10YR 5/3

Ersion present:

No

Erosion potential:

V. Low.

Degree slope:

1-2°

Comments:

Several age classes of *E. salubris*, younger stand ~ 30 yr old.
 Occasional species: *Melaleuca cardiophylla* var. *parviflora*
Excoecarpus aphyllus
Melaleuca adnata

Date:

Photo No:

84-32

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 2.
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
<i>E. Pilata</i> Dominants	3-4	7
<i>B. celastroides</i>	"	7
<i>E. eremophila</i>	"	30
<i>B. TRANSCONTINENTALIS</i>	4-5	15
Stratum 2		
Dominants		
<i>EXocarpos Aethyllus</i>	1.5	2.
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

KSC. - SBK.

mixed shrub mallee over

low scrub B.

Years since last burnt: >30

Intensity of burn:

Litter depth & density: 2-6cm., continuous ~ 85% cover., mainly leaves & bark.

Soil Texture: light grey hardsetting

Soil colour (Munsell): 10 yr 7/2.

clayey sand

Erosion present: No

Erosion potential: V. Low

Degree slope: 0°

Comments:

Water gaining area, drainage line

occasional species: *Boerhaavia inornata**Dillwynia uncinata**Hibbertia emeryi**Microcybe albiflora*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 21

Date:

Photo No:

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

3

84-34

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants		
<i>E. tetragona</i>	3-4	1
<i>E. albidula</i>	"	1
<i>Lambertia inervis</i>	"	1
<i>Allocasuarina pinaster</i>	2-3	5
Stratum 2		
Dominants		
<i>Hakea aff. marginalis</i>	1.5	2
<i>Beaufortia schaueri</i> SP123	0.5-0.7	2
<i>Dryandra aff. armata</i>	1-1.5	5
<i>Banksia violacea</i>	0.5-0.7	1
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

Ksr • Sbc • SDr

Very open shrub mallee (Tallerak) over heath B,
over open dwarf scrub D.

Years since last burnt:

>40

Intensity of burn:

Litter depth & density: 1-3cm, 20-30% cover, Pine twigs & small leaves

Soil Texture: light gray sandy loam with gravel, over laterite

Soil colour (Munsell): 10YR 7/2

Erosion present:

No

Erosion potential:

V. Low

Degree slope: varies from level crest to 5%

Comments:

Very diverse community, widespread in Reserve.
Occasional species: *Calothamnus gracilis* SP115.

SP 118 *Isopogon villosus*
121 *Synaphea polymorpha*
117 *Regelia inops*
114 *Agonis spatulata*
121 *C. m. t.*

SP 122. *Dumetia* sp. nov.
Dryandra erythrocephala

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 22

Date:

Photo No: 84737

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>E. eromophita</i>	4-6	5-8.
Stratum 2		
Dominants <i>Hakea nitida</i> <i>Banksia media</i> <i>Leptosperma erubescens</i> <i>Calitris preissii</i> subsp. <i>verrucosa</i>	2.0-2.5 3. - 3.5 1.5-2.0 4.	1 2 10 1
Stratum 3		
Dominants <i>Isocarpha</i> <i>myriachada</i>	~10cm.	5-8
Stratum 4		
Dominants		

Notes &/or description:

Ksr. S. VIc

Very open shrub mallee over scrub, over open low sedges

Years since last burnt: 230

Intensity of burn:

Litter depth & density: 1-3cm, 10-15% cover, leaves and small twigs

Soil Texture: Light yellowish brown
sandy loam.

Soil colour (Munsell): 10YR 6/4

Ersion present: No

Erosion potential: V. Low

Degree slope: 21°

Comments: Valley floor.

Occasional species: *E. uncinata*
B. foecunda
Hakea corymbosa
Daviesia incrassata.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 23

Date:

Photo No: 84-38

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 2 Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants E. INCRASSATA SP127	4-5	2
E. ALBIDA	4-5	2
Stratum 2		
Dominants. Xanthorrhoea SP128 Melaleuca aff. leptogermoides SP130 HAKA SP NOV SP129 Petiolaris seminada	0.5 " " "	1 1 1 1
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

KS r . SDC

Very open shrub mallee over low heath D.

Years since last burnt: > 46

Intensity of burn:

Litter depth & density: 1-2 cm, 5-10% cover.

Soil Texture: light gray sand.

Soil colour (Munsell): 10 yr 7/2

Ersion present: N6

Erosion potential: V. mod.

Degree slope: 2°

Comments:

occasional species : E. tetragona .

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 24

Date:

Photo No:

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

84-40

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants <i>Acacia lasiocalyx</i>	3-5	30
<i>Acacia microcalyx</i>	3-5	3
Stratum 2		
Dominants <i>Allocasuarina campetris</i>	0.5	5
<i>M. elliptica</i>	0.5	2
Stratum 3		
Dominants <i>Lepidospermum pruinosum</i>	0.1	10
<i>Boeckea crispiflora</i> SP136	0.2	5
Stratum 4		
Dominants		

Notes &/or description:

L Bi · S Di · VI

low forest of acacia sap, over dwarf scrub D, over open low sedges.

Years since last burnt: > 30

Intensity of burn:

Litter depth & density: Under acacia sap only ~ 3cm, 50%

Soil Texture: yellowish brown loam over granite.

Soil colour (Munsell): 10YR 5/4

Ersion present: No

Erosion potential: V High

Degree slope: 1-3

Comments:

Near granite outcrop.
Occasional species: *Calamagrostis quadrifida*

SP132 *Acacia saligna*
SP134 *A. sessilis*
SP135 *Docynia pinifolia*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 25

Date:

Photo No: 84-42

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>E. redunca</i> SP138	3-4	5-8
Stratum 2		
Dominants <i>Clax benthamii</i> <i>Xanthorrhoea effusa</i> <i>Leptospermum erubescens</i>	0.5	1
Stratum 3		
Dominants <i>Mesomelaena stygia</i> <i>Harperia lateriflora</i>	5-10 5-10	3 2.
Stratum 4		
Dominants		

Notes &/or description:

KS r - SDi - Vir

Very open shrub mallee over dwarf scrub D.
over very open low sedges.

Years since last burnt: > 30

Intensity of burn:

Litter depth & density: 0-2 cm, ~ 5% cover.

Soil Texture: light brownish gray sand. Soil colour (Munsell): 10YR 6/2.

Ersion present: No

Erosion potential: Moderate

Degree slope: 0-1°

Comments:

Very light soils, bearing sandy heath community
notable for absence of *E. tetragona*. Very diverse flora.
occasional species: *Petrophile squamata*. *Hakea corymbosa*
Allocasuarina muelleriana *Harperia lateriflora*
Isopogon bracteatus, *Drosera* *pteridifolia*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 26

Date:

Photo No:

84-43

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
<i>E. spathulata</i> sp.	1.5-3	5
<i>E. indeleat.</i> SP139	1.5-3.0	5
<i>E. incrassata</i> SP140	1.5-3.0	1
Stratum 2		
Dominants		
<i>M. uncinata</i>	0.5-1.0	15
Stratum 3		
Dominants		
<i>Hakea</i> sp. <i>marginata</i>	0.5	1
<i>Acroalea</i> <i>patentiloba</i> 141	0.25	1
<i>M.</i> sp. <i>leptospermoides</i> 142	0.25	1
Stratum 4 150 <i>Pogon</i> <i>duxifolia</i>	0.25	1
Dominants		

Notes &/or description:

Ksc . sc i . S D i

Mixed open scrub mallee over dwarf scrub &
over dwarf scrub D.

Years since last burnt:

~15 yrs.

Intensity of burn: ~

Litter depth & density: 1-2 cm. 5-10% cover.

Soil Texture: Pale brown loamy sand.

Soil colour (Munsell): 10Yr 6/3

Erosion present: No

Erosion potential: Low.

Degree slope: 0

Comments:

(Regenerating and climax examples of this type
shown in Photos 84-43, 84-44)

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 27

Date:

Photo No: 84-45

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
<i>E. Foveolata</i> SP146	2-3	10
<i>E. aff. UNCINATA</i> SP147	3-4	2
<i>EXCARPUS SPARSEUS</i>	3-4	1
Stratum 2		
Dominants		
<i>OLEARIA revoluta</i>	1	1
<i>Hakea corymbosa</i>	1-1.5	1
<i>MELALEUCA pentagona</i> SP148	1-1.5	1
Stratum 3		
<i>LEPTOSPERMUM</i> SP145 <i>erubescens</i>	1	3
Dominants		
<i>Grevillea aff. pulchella</i>	0.5	1
Stratum 4		
Dominants		

Notes &/or description:

KS C. SB. SDR.

Mixed open shrub mallee over low scrub A over open dwarf scrub D.

Years since last burnt: 15-20 yrs.

Intensity of burn:

Litter depth & density: 0-3 cm. 5% cover, fine leaves.

Soil Texture: Pale brown sandy loam.

Soil colour (Munsell): 10 YR 6/3

Erosion present: No

Erosion potential: V Low.

Degree slope: ~ 1°

Comments:

level depression or shallow valley.

Occasional species: *Templetonia sulcata*, *Daviesia incrassata*,
Santalum acuminatum

SP 143 *Acacia* INDET.

SP 144 *Acacia* *Ligata*

SP 149 *Acacia* *microbachne*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 28

Date:

Photo No: 84-46

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
<i>E. occidentalis</i>	1-20m	15
<i>Melaleuca offcuticularis</i>	1-5m.	20
Stratum 2		
Dominants		
<i>DisPhyma CRASSIFOLIUM</i>	~5cm.	10-15.
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

Mi. LBL. Ji

Open woodland of yate (with regeneration) over
low woodland B. over open herbs.

Years since last burnt:

>30

Intensity of burn:

Litter depth & density:

Scattered sticks only.

Soil Texture:

grayish brown hardsetting
loam.

Soil colour (Munsell):

Ersion present:

No

Erosion potential: —

Degree slope:

0°

Comments:

Scattered mature yate and melaleuca
with regeneration of various heights.
Water gaining depression.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 29

Date:

Photo No:

Photo Direction:

84-47

Quantity of strata (i.e. 1, 2, 3 or 4): 4
(Tallest stratum is No. 1)

Seral Stage:

chimer

Stratum 1	Height	% Cover
Dominants <i>E. Salmaphloia</i>	15 - 16	5
Stratum 2		
Dominants <i>E. uncinata</i> <i>Exocarpos spartens</i> <i>Acacia microbotryx</i>	3-4 2-3 3-4	3 1 1
Stratum 3		
Dominants <i>Olearia revoluta</i> <i>O. meulleri</i>	0.5 0.5	1 1
Stratum 4		
Dominants <i>Lepidosperma</i> off <i>resinifera</i> <i>DYSPHYMA CRASSIFOLIUM</i>	0.1 5cm	15 2

Notes &/or description:

Mr. Sr SD. VIC

Open woodland of Salmingum, over open scrub,
over open dwarf scrub, over open low sedges.

Years since last burnt: 246

Intensity of burn: -

Litter depth & density: 1-4 cm. 5-8%

lark and leaves.

Soil Texture: yellowish brown sand,
calcareous at depth.

Soil colour (Munsell): 10 yr 5/4

Ersion present: No

Erosion potential: Low

Degree slope: level crest.

Comments:

occasional species : *Dodonaea* sp
Acacia ligulata
A. erinacea
Rhagodia preissii

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 30

Date:

Photo No: Roll 3
84-49

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants		
<i>E. incrassata</i> SP 152	2.5-4	7
<i>Callitris preussii</i> subsp. var. 157	2-3	1
<i>B. laevis</i> 157	2-3	2
Stratum 2		
Dominants		
<i>M. uncinata</i>	1-2	5
<i>Hakea corymbosa</i>	1-1.5	1
<i>Leptospermum roei</i> 153	1-2	1
Stratum 3		
Dominants		
<i>Beaufortia micrantha</i> 155	2-3	2
<i>Colanthera myrtoidea</i> 154	"	1
<i>Metaleuca aff. leptospermoides</i> 156	"	2
Stratum 4 <i>Sarcocolla</i> 159	2	2
Dominants		

Notes &/or description: KS i. SA i. SD i

Mixed open shrub mallee over low scrub A
over dwarf scrub D.

Years since last burnt: L 40

Intensity of burn:

Litter depth & density: Very light and scattered, ~ 2%

Soil Texture: Light yellowish brown sand. Soil colour (Munsell): 10YR 6/4
(when wet)

Erosion present: No

Erosion potential: Moderate.

Degree slope: 0-1°

Comments: Occasional species: *Isopogonilus*
Santalum acuminatum.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 31

Date:

Photo No: 84-52

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 4
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants		
<i>E. foecunda.</i>	2-3	3
<i>E. uncinata</i>	4-5.	7
Stratum 2		
Dominants		
<i>Melaleuca. uncinata</i>	1.5-2	10
<i>Hakea corymbosa</i>	1.5	1
Stratum 3		
Dominants		
<i>grevillea pectinata</i>	1	1
<i>Cryptandra tomentosa</i> 160	-5	5
<i>acacia chrysella</i> 161	1	1
Stratum 4		
<i>Pultanea</i>		
<i>aff. adunca</i> 163	.5	1
Dominants		
<i>Gahnia anceistrophylla</i> 162	10cm	8
<i>Loxocarya MYRIACADA</i> 46	10cm.	3.

Notes &/or description:

KSi • SAc • ScC • ViC

open shrub mallee over low scrub A over
dwarf scrub C over open low sedges.

Years since last burnt: >40

Intensity of burn:

Litter depth & density: 1-3cm. 5-10% bark & leaves.

Soil Texture: Very pale brown sand Soil colour (Munsell): 10YR 7/3

Ersion present: No

Erosion potential: moderate

Degree slope: 0-4

Comments: crest and upper slope of lunette.

occasional species:

Hakea nitida
Templetonia sulcata

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 32

Date:

Photo No:

84-54

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 1
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
<i>Selenothamnus squematus</i> 165	2-20 cm	2
<i>Frankenia tetrapetala</i> 167	2-5 "	1
<i>Halosarcia</i> 166	2-10 "	6
<i>Halosarcia</i> 168	2-20 "	10
Stratum 2		
Dominants		
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

Ti
open heathland.

Years since last burnt: -

Intensity of burn: -

Litter depth & density: -

Soil Texture:

Soil colour (Munsell): 10YR 8/3

Erosion present: Very pale brown silty loam

Erosion potential: -

Degree slope: 0°

Comments:

Samphire flat on salt pan.
Plant diversity increased to perimeter, species 118
increases dominance to center.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 33

Date:

Photo No:

84-56

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

4

Seral Stage:

climax

Stratum 1	Height	% Cover
Dominants <i>E. Kondininensis</i>	18-23	10%
Stratum 2		
Dominants <i>Melaleuca thyoides</i> 171	4-5	15
Stratum 3		
Dominants <i>Melaleuca acuminata</i> 169	1-20	25.
Stratum 4		
Dominants <i>Stipa junifolia</i> 176	20cm	5.

Notes &/or description:

MC - SC - SAC - VIR

Woodland of Kondinin blackbutt, over scrub,
over low scrub A, over very open low sedges.

Years since last burnt: >40

Intensity of burn: -

Litter depth & density: 2-4cm. ~20% cover. Patchy

Soil Texture: dark grayish brown sandy loam

Soil colour (Munsell): 10YR 4/2

Ersion present: No

Erosion potential: -

Degree slope: 0°

Comments:

This community typically occurs on low-lying areas near lake periphery, with Yate occurring on more elevated positions, and often Salmon gum completing the sequence on lunette banks where heavier soils occur.

occasional species: *atriplex* (175) cinerea,
SP 172 *Threlkeldia diffusa*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 34

Date:

Photo No: 84-57

Photo Direction: 0

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants <i>E. conglobata</i> 177	6-8	5
Stratum 2		
Dominants <i>Melaleuca lateriflora</i> 180	2 - 2.5	25
<i>M. uncinata</i>	2 - 2.5	2
Stratum 3		
Dominants <i>Gahnia australis</i> 181	0.5	30
<i>Acacia chrysella</i> 161	0.5	1
<i>Olearia revoluta</i>	0.5	1
Stratum 4		
Dominants		

Notes &/or description:

Ksr. Sc.

Very open shrub mallee over scrub, over open
Tall sedges and dwarf scrub D.

Years since last burnt: >40

Intensity of burn:

Litter depth & density: 1-2cm.

3-7% cover. fine twigs & leaves.

Soil Texture: gray sandy clay.

Soil colour (Munsell): 10YR 5/1

Ersion present: -

Erosion potential: -

Degree slope: 1-2°

Comments:

Shrub-sedgeland on lake margin, on lower face
of lunette formation.

occasional species: sp 164 *grevillea armigera*
182 *Atriplex anerea*
178 *Leucopogon pinnatis*
algisia luxifolia *Santalum acuminatum*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 35

Date:

Photo No:

84-58

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
<i>E. pileata</i> 185	6-8	5
<i>E. pileata</i> 184	5-6	5
<i>E. spathulata</i> ssp. <i>grandiflora</i> 183	2-3	1
Stratum 2		
Dominants		
<i>M. uncinata</i>	1.5-2	2
<i>M. adnata</i> 187	2	3
<i>M. acuminata</i> 188	2-2.5	1
Stratum 3		
Dominants		
<i>M. pentagona</i> complex. 186	0.5-1	15
Stratum 4		
Dominants		

Notes &/or description:

KS₀ • Si • SE₀

mixed open shrub mallee over scrub, over dwarf scrub.

Years since last burnt: >40

Intensity of burn: -

Litter depth & density: 2-4 cm, 15-20% cover.

Soil Texture: light yellowish brown
sandy loam

Soil colour (Munsell): 10YR 6/4

Ersion present: 16

Erosion potential: V. Low

Degree slope: 0-1°

Comments: IN slight depression on sandy plain, low lying.

Occasional species: *E. incrassata*

Templetonia sulcata

Malakua holosericea

SP. 189 *M. acuminata*

SP. 190

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 36

Date:

Photo No:

84-64

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 1
(Tallest stratum is No. 1)

Seral Stage: climax

Stratum 1	Height	% Cover
Dominants		
M. aff. <i>cuticularis</i>	3-4	5
m. <i>thyoides</i> SP 171	4	8
m. aff. <i>oculata</i>	2.5	1
m. aff. <i>lanceolata</i>	3	1
Stratum 2		
Dominants		
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

L.A.i.
low woodland A of Melaleuca.

Years since last burnt: 740

Intensity of burn: -

Litter depth & density: 0-30cm, 5% cover, sticks & twigs, patchy

Soil Texture: foamy sand over clay

Soil colour (Munsell): 10YR 4/1

Erosion present: -

Erosion potential:

Degree slope: 0°

Comments:

Melaleuca thicket on lake margin.
Occasional species in low strata (<0.5m)
Atriplex (SP 182). *caniseca*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 37

Date:

Photo No:

84-65

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

3

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
<i>E. pileata</i> 194	4-5	20
<i>B. pileata</i> 195	4-5	20
<i>E. eromophila</i> 196	3-4	5
Stratum 2		
Dominants		
<i>melaleuca</i> SP. NOV. 192	2	1
Stratum 3		
Dominants		
<i>microcybe multiflora</i> 193	0.5	1
Stratum 4		
Dominants		

Notes &/or description:

KSc • Sr •

mixed shrub-mallee over open scrub
over open dwarf scrub D.

Years since last burnt:

240

Intensity of burn: -

Litter depth & density: 2-6cm. continuous, 60% cover, bark & leaves
small stems.

Soil Texture: Brown sandy loam

Soil colour (Munsell): 10YR 4/3

Erspsion present: -

Erosion potential: V. low.

Degree slope: 0°

Comments:

occasional species: *Templetonia sulcata*.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 38

Date:

Photo No:

84-66

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 1
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>E. salubris</i>	5-6	60
Stratum 2		
Dominants		
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

LBC.
Low forest B of gumlet

Years since last burnt:

> 15 yrs

Intensity of burn:

Litter depth & density:

thin, ~ 15% cover, old stems

Soil Texture: Very dark grayish brown
sandy clay.

Soil colour (Munsell): 10 YR 3/2.

Erosion present:

No

Erosion potential:

—

Degree slope:

2-3°

Comments:

Regenerating gumlet thick, with very sparse understorey.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 39

Date:

Photo No:

Photo Direction:

84-68

Quantity of strata (i.e. 1, 2, 3 or 4): 2
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>E. FALCATA</i>	8-10	60
Stratum 2		
Dominants <i>Beyeria Lechenaultii</i> 201	1.5-2	20
<i>Leptomeria pauciflora</i> 303	2.0	1
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: LAc. SAi

low forest A of Mallet over
low scrub A

Years since last burnt: > 40

Intensity of burn:

Litter depth & density: continuous 2-4 cm deep, ~90% leaves + stems.

Soil Texture: pale brown sandy loam
with laterite gravel.

Soil colour (Munsell): 10YR 6/3

Ersion present: No

Erosion potential: V. low

Degree slope: 0-1°

Comments: upland vegetation, common as patches in reserve.

occasional species: *Banksia media*.

202 *Gastrolobium crassifolium*

204 *Phelipium aff. filifolium*

205 *Leucopogon cuneifolius*

207 *Dodonea amblyophylla*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 40

Date:

Photo No:

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

2

84-69

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
<i>Banksia media</i>	2-3	8%
<i>E. incrassata</i>	3-4	1
<i>E. PREMOPHILA</i>	3-4	1
Stratum 2		
Dominants		
<i>Melaleuca pentagona</i> complex	0.5	60
assorted occasional shrubs	0.3-0.5	10-15
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

LBr. SD d.

Open low woodland B of *Banksia*
with mallee over dense low heath D

Years since last burnt:

>40

Intensity of burn:

Litter depth & density: 1-2 cm.

5-10% cover

small leaves.

Soil Texture: light yellowish brown sandy
loam over weathered granite

Soil colour (Munsell):

Ersion present:

NO

Erosion potential:

moderate.

Degree slope:

2-3°

Comments:

Occasional species:

Grevillea pectinata *E. foecunda*
Leucopogon polymorphus *E. redunca*.
Melaleuca off *depauperata*
Baeleka corynophylla
Melaleuca subfalcata

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 41

Date:

Photo No:

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

3.

Seral Stage:

84-71

Stratum 1	Height	% Cover
Dominants <i>E. salmonophloia</i>	12-15	15-17
Stratum 2		
Dominants <i>Acacia microleptera</i> <i>Exocarpos sparteus</i>	2-4 3-4	3 1
Stratum 3		
Dominants <i>Lepidosperma pruinosum</i> <i>Lomandra effusa</i> <i>Lomandra micrantha</i>	0-20 0-10 0-10	15 1 1
Stratum 4	<i>Jahua anisotrophylla</i> 0-10	15
Dominants		

Notes &/or description:

M. c. Sr. V. c.

Woodland of salmon gum, over open scrub
over low sedges.

Years since last burnt: >40

Intensity of burn:

Litter depth & density: 2-4 cm, 25% cover Sticks, bark, patchy under trees

Soil Texture: Very dark grayish brown sandy loam. Soil colour (Munsell): 10YR 3/2.

Erosion present: No

Erosion potential: V. Low.

Degree slope: 2-3°

Comments: Fringing woodland near rock apron. Calcium carbonate at depth.
occasional species: *Santalum acuminatum*

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 42

Date:

Photo No:

84-73

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>Alloxasuarina huegeliana</i>	3-5	40-70 (Patchy)
Stratum 2		
Dominants <i>Lepidosperma drummondii</i> <i>Spartochloa scirpoides</i>	0.3 m 0.3 m.	5 5
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

L.B.C. . V.I.C. . Hr

Low forest B of sheoak over open low sedges.
and open hummock grass.

Years since last burnt:

>40

Intensity of burn:

Litter depth & density: 2-4 cms. continuous 70% cover

Soil Texture: dark brown sandy loam.

Soil colour (Munsell): 7YR 3.5/4.

Ersion present: no

Erosion potential: V. Low

Degree slope: 3°

Comments:

Sheoak thicket near granite apron.
occasional species: *Sollya heterophylla*.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 43

Date:

Photo No:

84-74

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4): 3
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>Acacia lasiocalyx</i>	4-6	60
Stratum 2		
Dominants <i>M. elliptica</i> <i>Thryptomene australis</i>	1.5-20 1.5	3 2
Stratum 3		
Dominants <i>Lepidosperma pruinatum</i> <i>Spartochloa xiphioides</i>	30 cm "	1 1
Stratum 4		
Dominants		

Notes &/or description:

LBe • SAR • VI r

Low forest A of acacia, over open low scrub A,
over very open low sedges and hummock grass.

Years since last burnt: >40

Intensity of burn: -

Litter depth & density: 1-3 cm. continuous 95% cover.

Soil Texture: dark gray-brown sandy loam.

Soil colour (Munsell): 10Yr 4/2

Erosion present: No

Erosion potential: V. low.

Degree slope: 1-3°

Comments:

In depression on Dunn Rock.
Occasional species: *Styphandra imbricata*.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 44

Date:

Photo No:

84-75

Photo Direction:

Quantity of strata (i.e. 1, 2, 3 or 4):
(Tallest stratum is No. 1)

Seral Stage:

Stratum 1	Height	% Cover
Dominants <i>E. occidentalis</i>	10-12	15.
Stratum 2		
Dominants <i>Dodonaea ceratocarpa</i>	0-5-1	40
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description:

LAi . SDC . Vir

Low woodland A of Yate, over low heath D
over very open low sedges.

Years since last burnt: >40

Intensity of burn: ~

Litter depth & density: patch, 1-5cm, 15% cover, branches and bark.

Soil Texture: dark brown loam.

Soil colour (Munsell): 7.5Yr 3/2.

Ersion present: No

Erosion potential: V. Low

Degree slope: 1°

Comments: In depression, Dunn rock apron.

occasional species: *Hakea laurina*, *E. pilcata*, *Acacia erinacea*, *M. uncinata*,
Acacia revoluta, *Dianella revoluta*, *Calathamus quadrifidus*,
Thryptomene australis, *Styphandra umbriata*, *Allocasuarina huegeliana*,
Lepidosperma prunosum, *Lomandra effusa*, *Lomandra micrantha*.

APPENDIX 7

Plates

PLATE 1

1. Location 1: Open Shrub Mallee of Eucalyptus pileata, over Low Scrub A of Melaleuca uncinata, over Dwarf Scrub C.
2. Same as 1.
3. Location 2: Low Woodland A (Eucalyptus gardneri), over Sparse Scrub (Melaleuca uncinata), over Dwarf Scrub C.
4. Location 3: Low Woodland of gimlet (Eucalyptus salubris), over Low Scrub A of Melaleuca cucullata.
5. Location 4: Open Shrub Mallee of redwood (Eucalyptus transcontinentalis), over a Low Scrub B of Melaleuca sp.
6. Location 5: Mixed Open Shrub Mallee, over Low Scrub B.



S1

84-1



S1

84-2



S2

84-3



S3

84-4



S4

84-5



S5

84-6



PLATE 2

1. Location 7: Mixed Open Shrub Mallee over Low Scrub B, over Low Heath C with Low Open Sedges.
2. Location 8: Low Open Leptospermum Shrub A over Heath B and Sedges.
3. Location 9: Open Woodland of yate, over Leptospermum Thicket, over Very Open Low Sedges.
4. Location 10: Mixed Open Shrub Mallee over Heath B, over Sparse Sedges.
5. Location 11: Low Open Scrub A over Dwarf Scrub D, over Sparse Sedge (Mesomeloena stygia).
6. Acacia lasiocalyx :
Mixed Open Shrub Mallee over Dense Low Heath D.

PLATE 2



S7 84-8



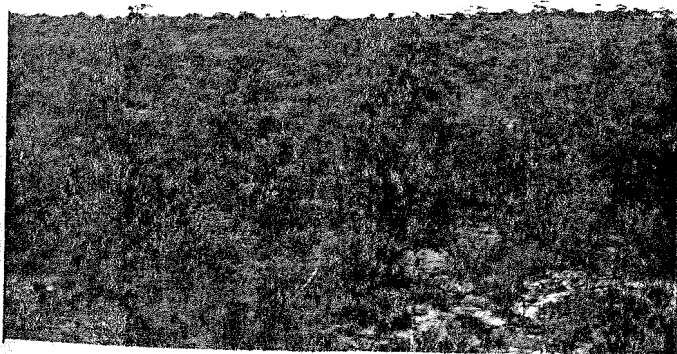
S8 84-9



S9 84-10



S10 84-11



S11 84-12



ACACIA LASIOCALYX

84-14

PLATE 3

1. Location 12: Mixed Open Shrub Mallee over Dense Low Heath D.
2. Location 13: Open Woodland of salmon gum over Very Open Shrub Mallee, over Open Dwarf Scrub D, over Very Open Low Sedges.
3. Location 14: Very Open Shrub Mallee of Tallerak, over Open Dwarf Scrub D, over Very Open Low Sedges.
4. Location 15: Low Forest A of Mallet (and Mixed Eucalyptus), over Low Open Scrub A, over Dwarf Scrub D.
5. Location 16: Low Forest B of Eucalyptus annulata over Open Dwarf Scrub C.
6. Location 17: Mixed Shrub Mallee over Low Scrub B, over Dwarf Scrub D.

PLATE 3



S12 84-15



S13 84-18



S14 84-19



S15 84-22



S16 84-24

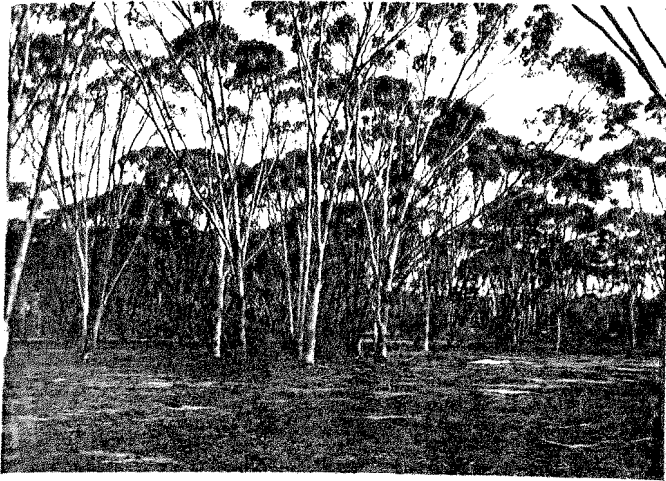


S17 84-26

PLATE 4

1. Location 18: Woodland of merrit over Open Scrub.
2. Location 19: Low Forest A of gimlet, over Low Heath C.
3. Location 20: Mixed Shrub Mallee over Low Scrub B.
4. Location 21: Very Open Shrub Mallee (Tallerak) over Heath B,
over Open Dwarf Scrub D.
5. Location 22: Very Open Shrub Mallee over Scrub, over Open
Low Sedges.
6. Location 23: Very Open Shrub Mallee over Low Heath D.

PLATE 4



118

84-28



S 19

84-30



S 20

84-32



S 21

84-34



S 22

84-37



S 23

84-38

PLATE 5

1. Location 24: Low Forest of Acacia spp., over Dwarf Scrub D,
over Open Low Sedges.
2. Location 25: Very Open Shrub Mallee over Dwarf Scrub D, over
Very Open Low Sedges.
3. Location 26a: Mixed Open Scrub Mallee over Dwarf Scrub C, over Dwarf
Scrub D.
4. Location 26b: Same as 3.
5. Location 27: Mixed Open Shrub Mallee over Low Scrub A, over Open
Dwarf Scrub D.
6. Location 28: Open Woodland of Yate (with regeneration), over
Low Woodland B, over Open Herbs.

PLATE 5



S24

84-40



S25

84-42



S26a

(regrowth)

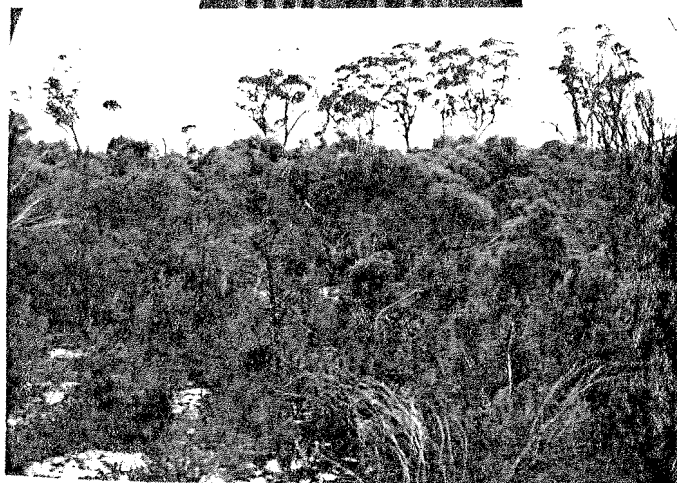
84-43



S26b

(unburnt)

84-44



S27

84-45



S28

84-46

PLATE 6

1. Location 29: Open Woodland of salmon gum, over Open Scrub,
over Open Dwarf Scrub, over Open Low Sedges.
2. Location 30: Mixed Open Shrub Mallee over Low Scrub A, over
Dwarf Scrub D.
3. Location 31: Open Shrub Mallee over Low Scrub A, over Dwarf
Scrub C, over Open Low Sedges.
4. Location 32: Open Herbland.
5. Location 33: Woodland of Kondinin blackbutt, over Scrub, over
Low Scrub A, over Very Open Low Sedges.
6. Location 34: Very Open Shrub Mallee over Scrub, over Open Tall
Sedges and Dwarf Scrub D.

PLATE 6



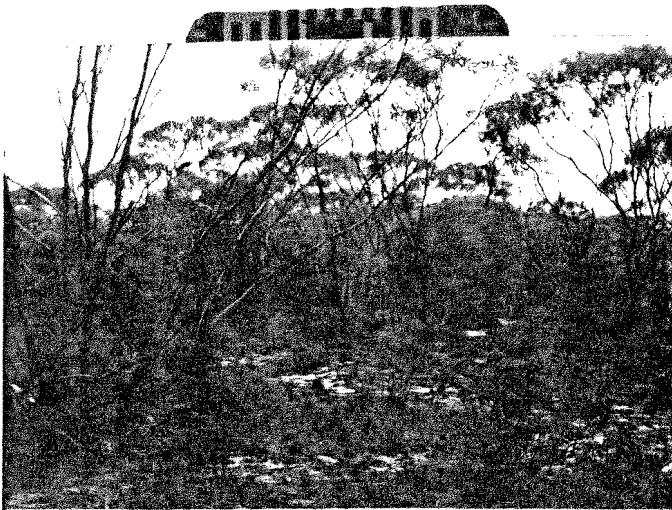
S 29

84-47



S 30

84-49



S 31

84-52



S 32

84-54



S 33

84-56



S 34

84-57

PLATE 7

1. Location 35: Mixed Open Shrub Mallee over Scrub, over Dwarf Scrub C.
2. Location 36: Low Woodland A of Melaleuca.
3. Location 37: Mixed Shrub Mallee over Open Scrub, over Open Dwarf Scrub D.
4. Location 38: Low Forest B of gimlet.
5. Location 39: Low Forest A of Mallet over Low Scrub A.
6. Location 40: Open Low Woodland B of Banksia with Mallee over Dense Low Heath D.

PLATE 7

84-64

84-64



S35

84-58



S36 84-64



S37

84-65



S38

84-66



S39

84-68



S40

84-69

PLATE 8

1. Location 41: Woodland of salmon gum, over Open Scrub, over Low Sedges.
2. Location 42: Low Forest B of sheoak over Open Low Sedges and Open Hummock Grass.
3. Location 43: Low Forest A of Acacia, over Open Low Scrub A, over Very Open Low Sedges and Hummock Grass.
4. Location 44: Low Woodland A of yate, over Low Heath D, over Very Open Low Sedges.
5. Location 45: Essentially bare surface of Dunn Rock (granite).

PLATE 8



S41

84-71



S42

84-73



S43

84-74



S44

84-75



S45

84-77

