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VEGETATION SURVEY OF THE DUNN ROCK NATURE RESERVE

by

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for

DEPARTMENT OF FISHERIES & WILDLIFE

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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 70-100% d	MID-DENSE 30-70% c	SPARSE 10-30% i	VERY SPARSE 2-10% r
T Trees >30m	Dense Tall Forest	Tall Forest	Tall Woodland	Open Tall Woodland
M Trees 15-30m	Dense Forest	Forest	Woodland	Open Woodland
LA Trees 5-15m	Dense Low Forest A	Low Forest A	Low Woodland A	Open Low Woodland A
LB Trees <5m	Dense Low Forest B	Low Forest B	Low Woodland B	Open Low Woodland B
KT Mallee tree form	Dense Tree Mallee	Tree Mallee	Open Tree Mallee	Very Open Tree Mallee
KS Mallee shrub form	Dense Shrub Mallee	Shrub Mallee	Open Shrub Mallee	Very Open Shrub Mallee
S Shrubs >2m	Dense Thicket	Thicket	Scrub	Open Scrub
SA Shrubs 1.5-2.0m	Dense Heath A	Heath A	Low Scrub A	Open Low Scrub A
SB Shrubs 1 0-1.5m	Dense Heath B	Heath B	Low Scrub B	Open Low Scrub B
SC Shrubs 0.5-1.0m	Dense Low Heath C	Low Heath C	Dwarf Scrub C	Open Dwarf Scrub C
SD Shrubs 0.0-0.5m	Dense Low Heath D	Low Heath D	Dwarf Scrub D	Open Dwarf Scrub D
P Mat plants	Dense Mat Plants	Mat Plants	Open Mat Plants	Very Open Mat Plants
H Hummock Grass	Dense Hummock Grass	Mid-Dense Hummock Grass	Hummock Grass	Open Hummock Grass
GT Bunch grass >0.5m	Dense Tall Grass	Tall Grass	Open Tall Grass	Very Open Tall Grass
GL Bunch grass <0.5m	Dense Low Grass	Low Grass	Open Low Grass	Very Open Low Grass
J Herbaceous spp.	Dense Herbs	Herbs	Open Herbs	Very Open Herbs
VT Sedges >0.5m	Dense Tall Sedges	Tall Sedges	Open Tall Sedges	Very Open Tall Sedges
VL Sedges <0.5m	Dense Low Sedges	Low Sedges	Open Low Sedges	Very Open Low Sedges
X Ferns	Dense Ferns	Ferns	Open Ferns	Very Open Ferns
Mosses, liverwort	Dense Mosses	Mosses	Open Mosses	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): Seral Stage:
(Tallest stratum is No. 1)

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):

Erpsion 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.

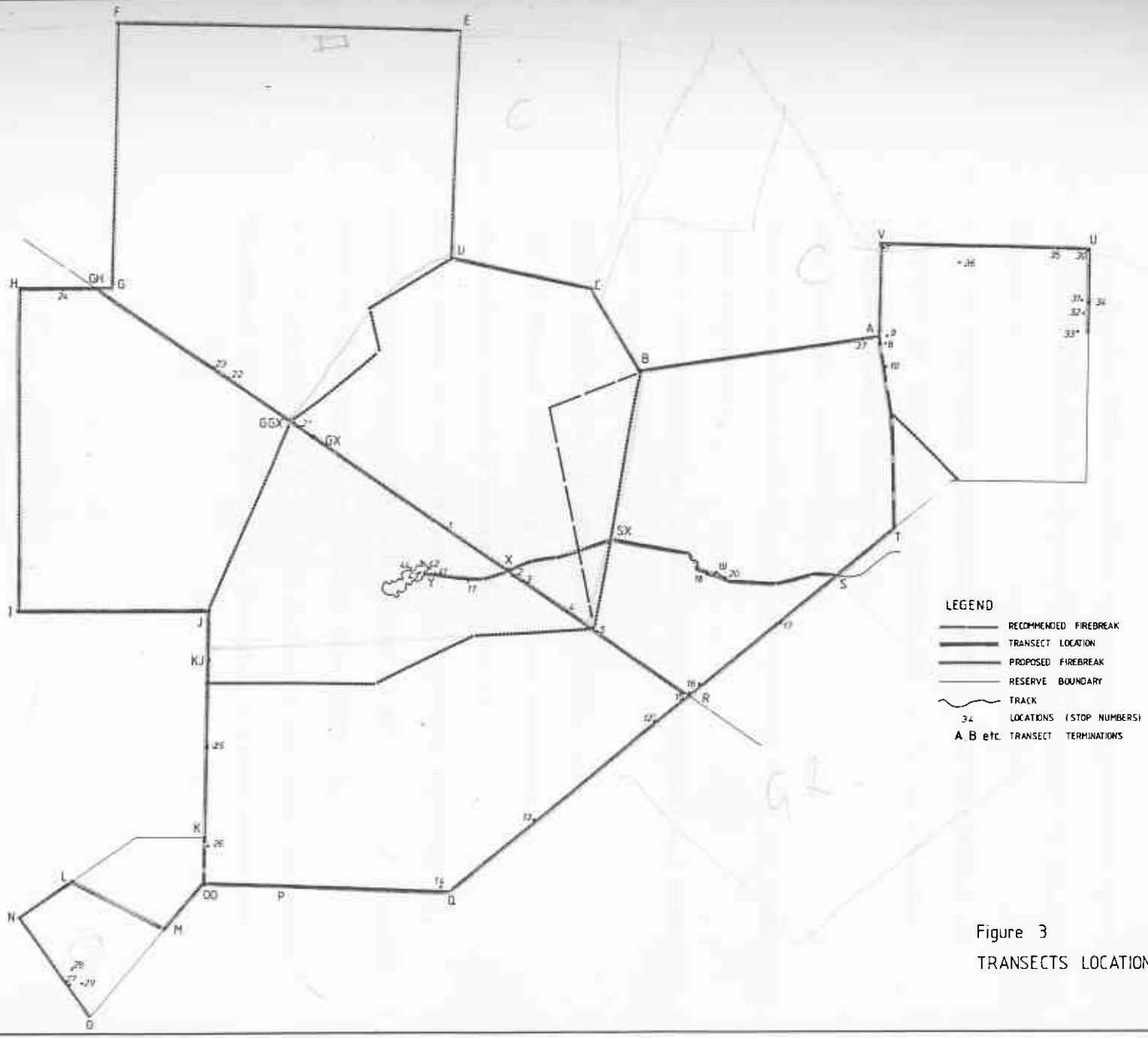


Figure 3

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 myrtoides, 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 pruinosum.

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 pruinosum 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 pruinosum 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 pruinosum, 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 merrit (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 salmonophoia 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 floctoniae 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

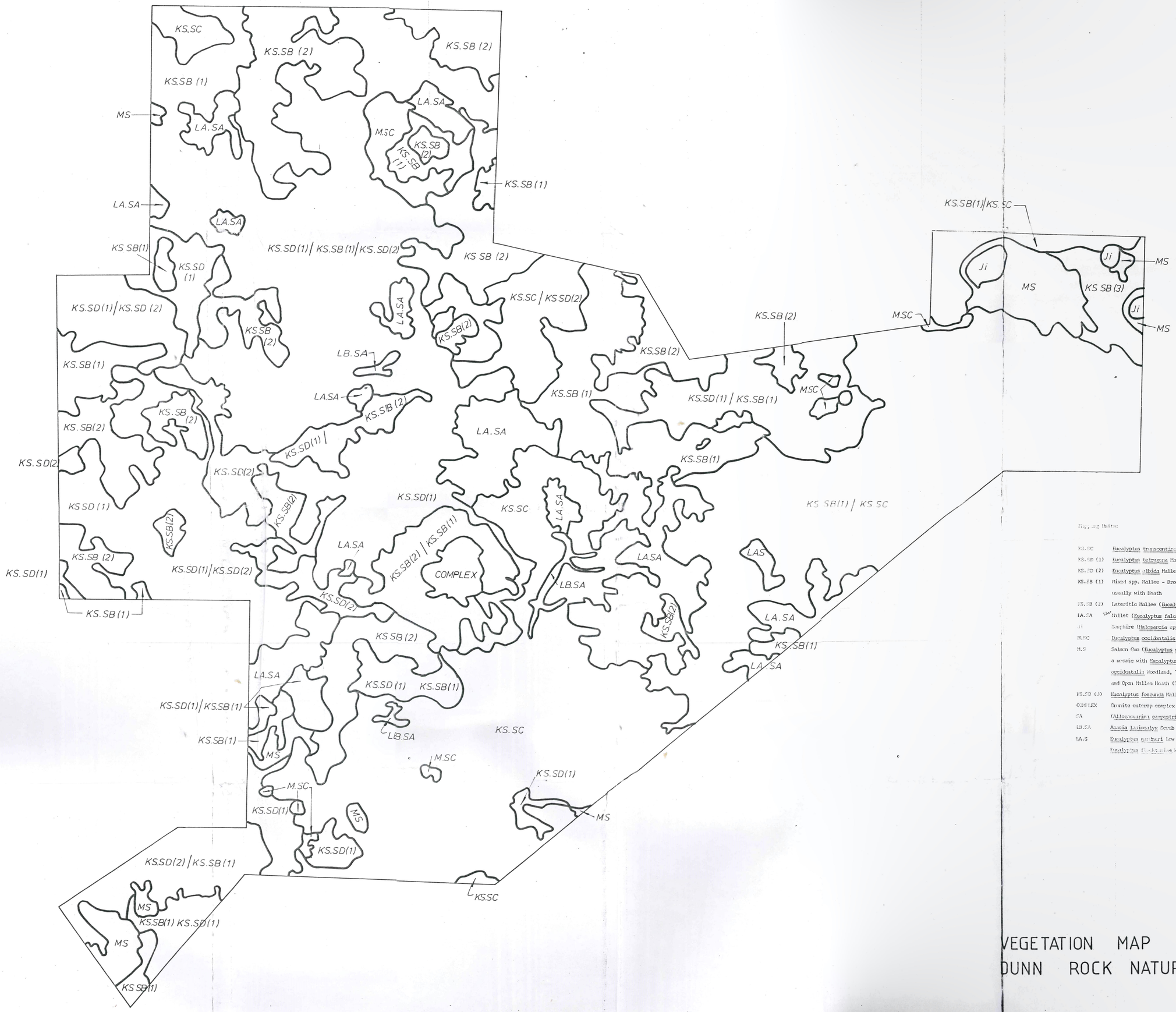
APPENDIX 1

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)



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	Tillet (Eucalyptus falcata) Low Woodland.
Ji	Sapphire (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
CA	(Allocasuarina campestris) community
LB.SA	Acacia lasiocalyx Scrub
LA.S	Eucalyptus gamburi 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)	Granite Complex	
Outer apron	Moderately-drained sandy loam (U-G)	Allocasuarina huegeliana Low Woodland	42
		Acacia lasiocalyx Low Woodland/Low Forest	43
		Eucalyptus occidentalis Low Woodland	44
	Well-drained loam (D)	Eucalyptus salmonophloia Woodland	41
Shallow soil	Well-drained sandy loams (D)	Allocasuarina campestris Shrubland	
		Mixed Low Shrubland	11
		Acacia lasiocalyx Woodland/heath	24
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)	Eucalyptus falcata Low Woodland/Low Forest	39
	Well-drained gravelly sand (D)	Lateritic Mixed Species Shrubland	21
		Eucalyptus albida Mallee	23
	Well-drained cracking clay loam (G or U)	Eucalyptus annulata Low Woodland/Low Forest	16
		Eucalyptus salubris Low Woodland/Low Forest	19
	Well-drained calcareous sandy loam (D or G)	Eucalyptus flocktoniae Low Woodland	18
Old slope	Well-drained sandy loam (D)	Eucalyptus redunca Mallee	
	Well-drained loamy sand (D)	Eucalyptus redunca Mallee	17
New slope	Well-drained clayey sand (D)	Eucalyptus celastroides Mallee	
Drainage line	Well-drained fine sandy loam (D)	Eucalyptus transcontinentalis Mallee	12
	Well-drained clayey sand (D)	Eucalyptus eremophila Mallee	20
		Eucalyptus gardneri Low Woodland	2
Colluvial sand sheet	Well-drained white sand (D)	Eucalyptus tetragona Mallee	14
BROAD VALLEY (Bottomland)			
Well-drained flats	Well-drained sands (D)	Open Mallee/heath	30
	Well-drained loamy sands (D)	Eucalyptus pileata Mallee	35
	Well-drained clayey sands (D)	Eucalyptus celastroides Mallee	
	Well-drained loams (D)	Eucalyptus salmonophloia Woodland	13
Drainage line (outer)	Variable-drained alluvium (D)	Eucalyptus occidentalis Woodland	9
(inner)	Variable-drained & slightly saline alluvium (V)	Melaleuca Shrubland	8
Swamp*	Variable-drained alluvium (D)	Eucalyptus occidentalis Woodland	
Depression	Variable-drained alluvium (D)	Eucalyptus occidentalis Low Woodland	28
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

APPENDIX 3

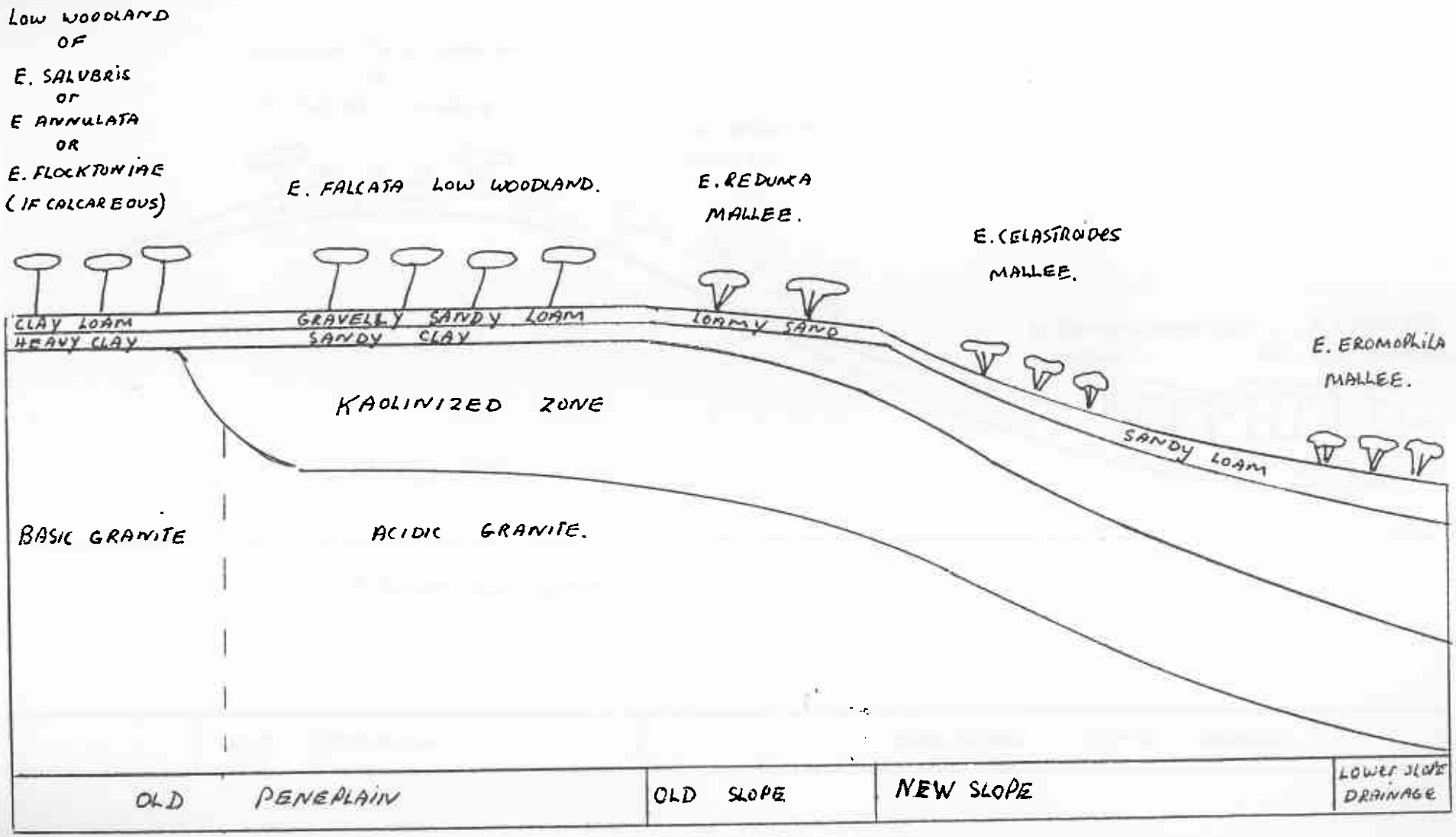
FUEL LEVELS AND OTHER FIRE RELATED FACTORS

Site	Vegetation Type	Est.Maturation Time (Yrs.)	Est.Highest Fire Frequency	Observed Litter Depth (cm)	Observed Litter Cover (%)
23	E. albida mallee on sandplain	45	15	1-2	10
17	E. redunca mallee on sandplain	50	15	1-10	35
12	E. transcontinentalis mallee on sandplain	45	15	1-2	15
20	E. eromophila mallee on sandplain	60	20	2-6	85
14	E. tetragona mallee on sandplain	50	15	1-2	5
30	Open mallee/heath on broad valley	50	12	-	2
35	E. pileata mallee on broad valley	40	15	2-4	20
27	E. foecunda 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	Melaleuca shrubland on broad valley drainage line	60	Nil	1-3	5
24	Acacia lasiocalyx woodland/heath over granite	40	15	-	Patchy
42	Allocasuarina huegeliana low woodland/forest	50	15	2-4	70
43	Acacia lasiocalyx low woodland/forest	30	10	1-3	95
44	E. occidentalis woodland over granite	100	15	1-6	15
41	E. salmonophloia woodland over granite	100	Nil	-	Patchy
39	E. falcata low woodland/forest on sandplain	50	15	2-4	90
16	E. annulata low woodland/forest on sandplain	60	20	1-5	25
19	E. salubris low woodland/forest on sandplain	50	20	2-4	100
18	E. floctoniae woodland on sandplain	75	Nil	1-4	60
2	E. gardneri low woodland on sandplain	40	12	1-2	30
13	E. salmonophloia woodland on broad valley	100	Nil	1-5	8
9	E. occidentalis woodland on broad valley	75	12	1-5	10
28	E. occidentalis woodland on broad valley depression	70	30	-	Patchy
32	Halosarcia low shrubland on salt lake floor	30	Nil	-	-
29	E. salmonophloia woodland on fossil dunes	200	Nil	1-4	8
33	E. kondininensis woodland on fossil dunes	100	Nil	-	Patchy
36	Melaleuca tall shrubland/low woodland on recent dunes	35	Nil	-	Patchy
31	E. uncinata mallee on lake slopes	50	Nil	1-3	7

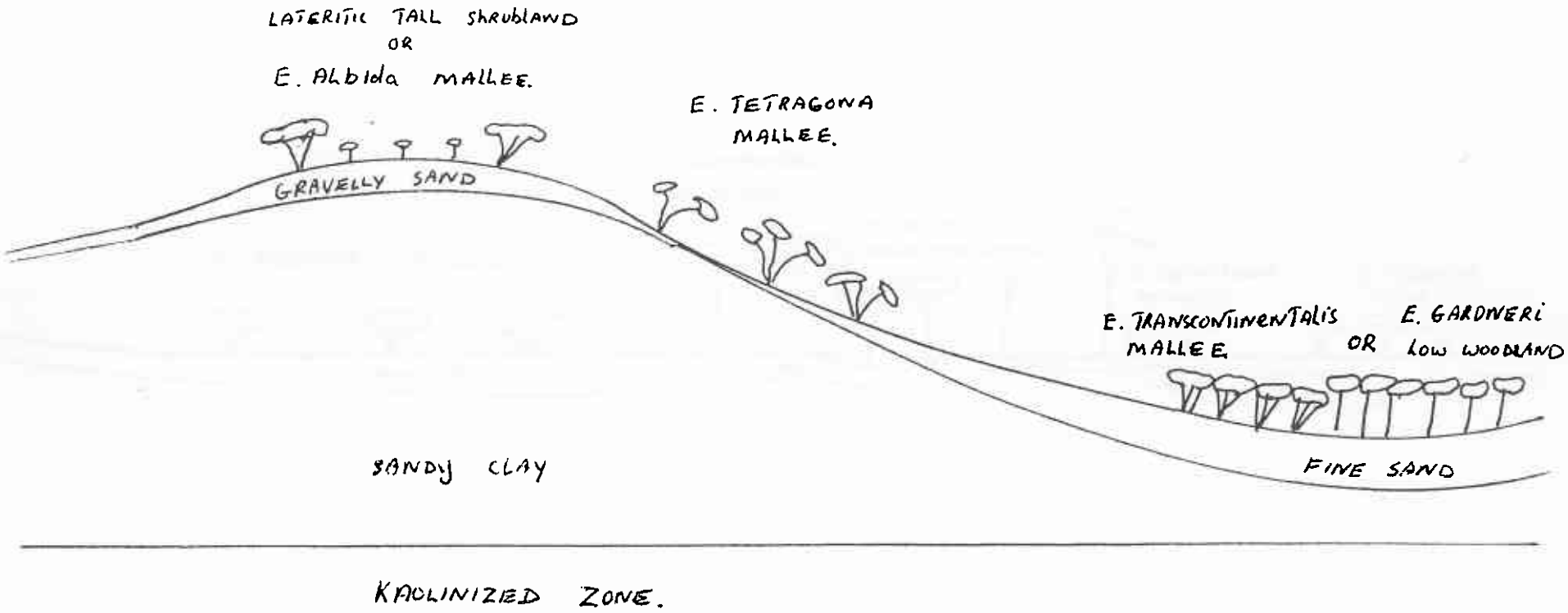
APPENDIX 4

Diagrams of Typical Vegetation and Soil Sequences

VEGETATION SEQUENCE ON SANDPLAIN TYPE A.

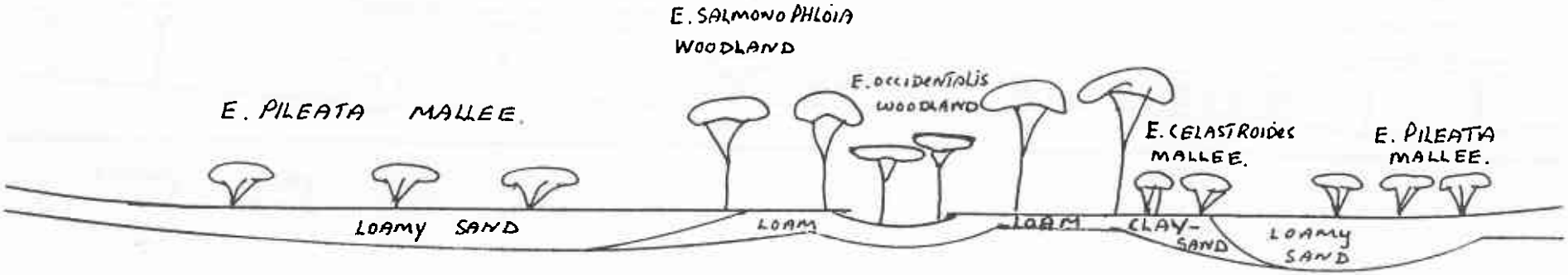


VEGETATION SEQUENCE ON SANDPLAIN TYPE B.



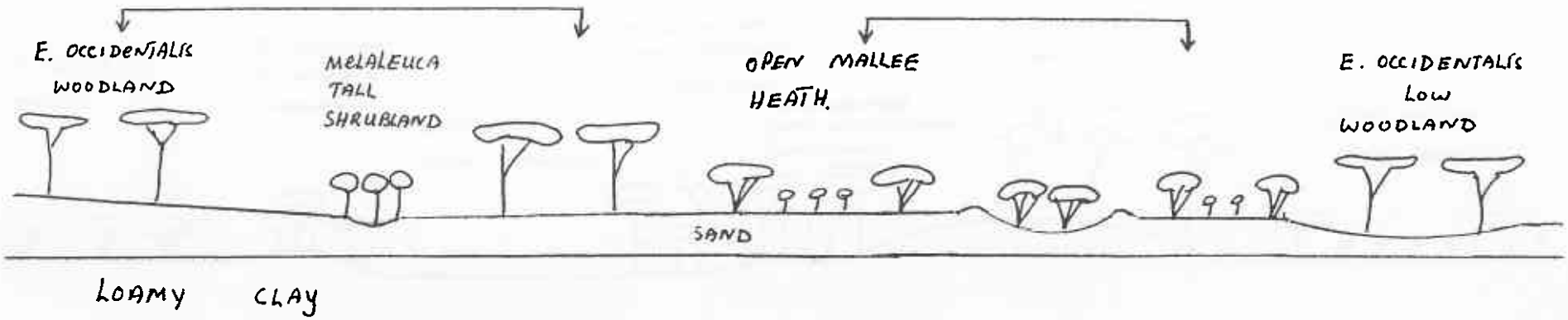
	OLD PENEPLAIN	COLLUVIAL SAND SHEET.

VEGETATION sequence on broad valley TYPE A



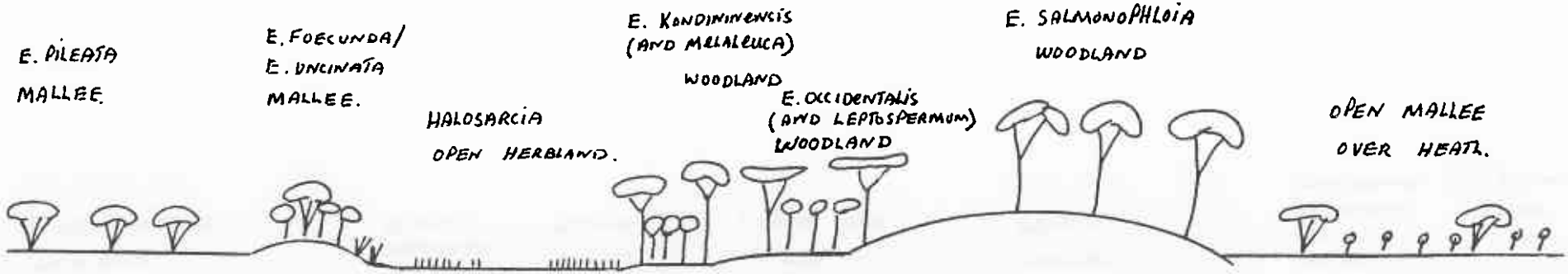
DEEPER SANDS	LOAMS	WATER GAINING	LOAMS	CLAYS	DEEPER SANDS

Vegetation sequence on broad valley TYPE B.



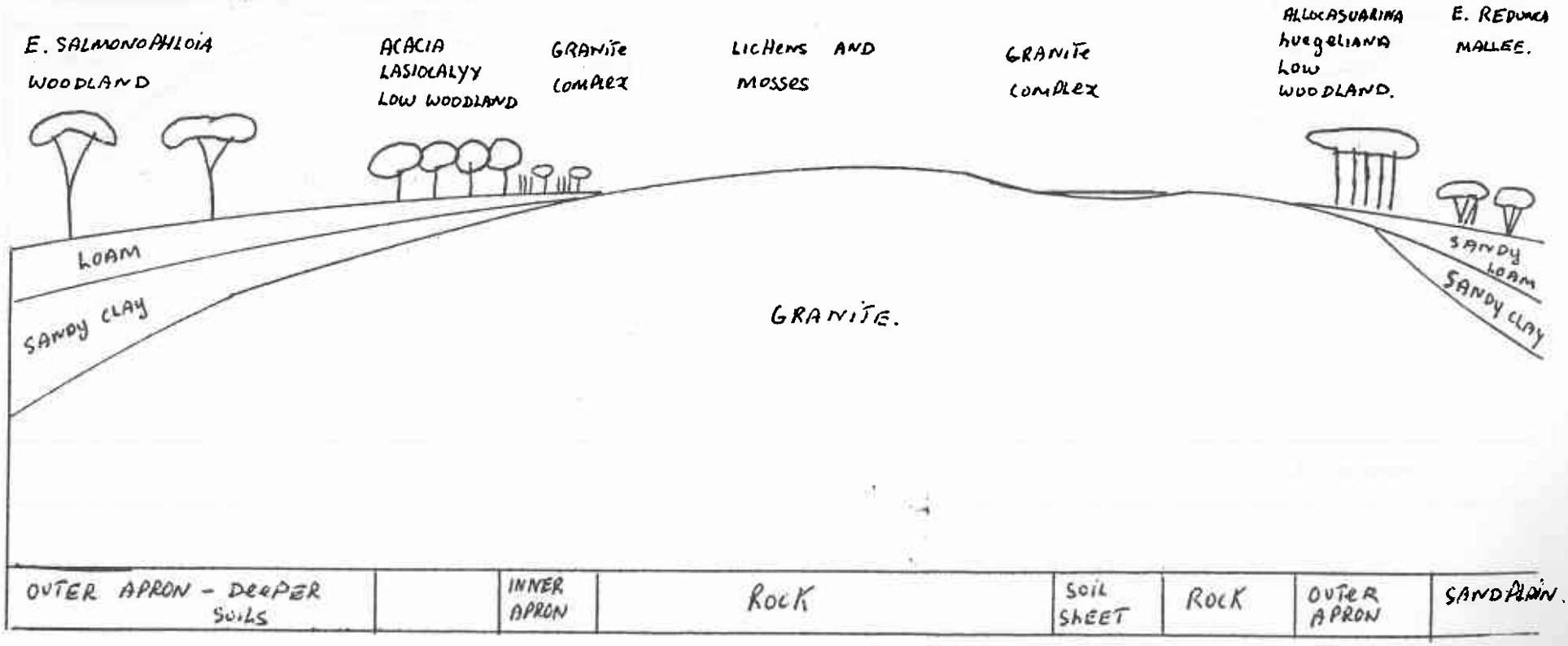
Alluvium	Brackish depression	Alluvium	Aeolian soil sheet	Choked depression		Small depression

Vegetation sequence on salt lake perimeters



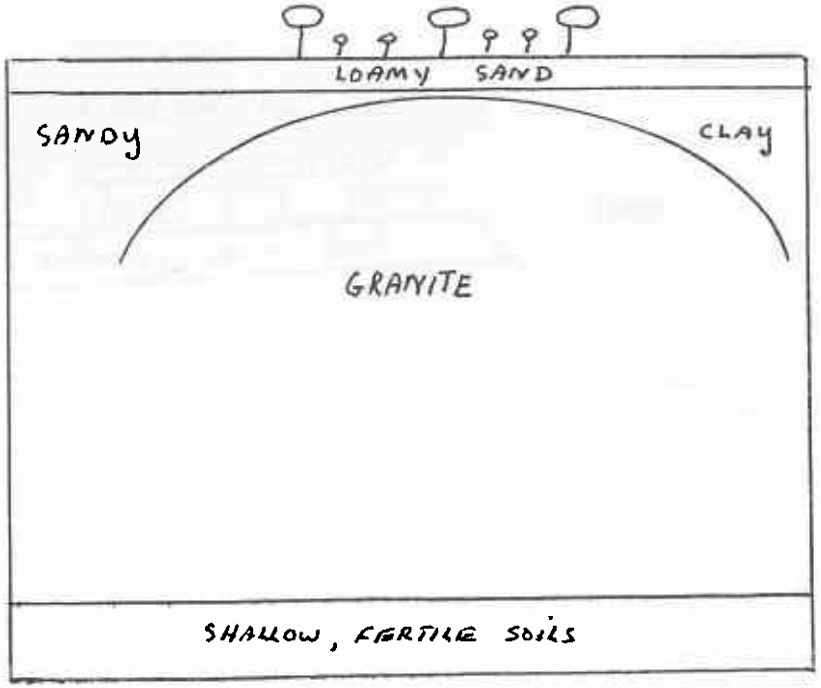
Aeolian sand sheet on valley floor	Raised lunette	Lake floor - saline silt	Slightly raised sandy loam	More elevated sands	Loam to clay loam. Fossil lake dunes formed during wetter period	Aeolian sand.

VEGETATION SEQUENCE ON GRANITE EXPOSURES.

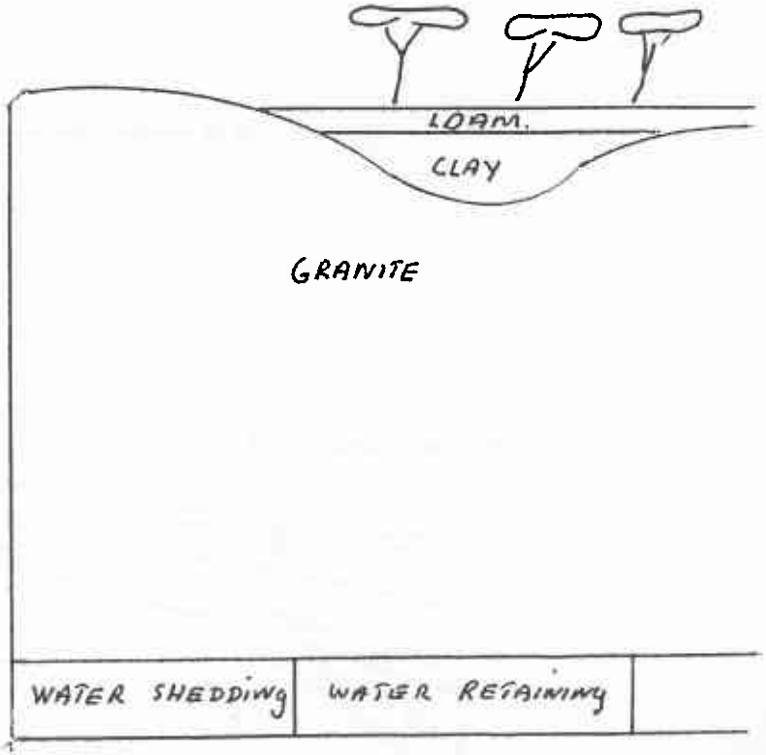


Vegetation over GRANITE.

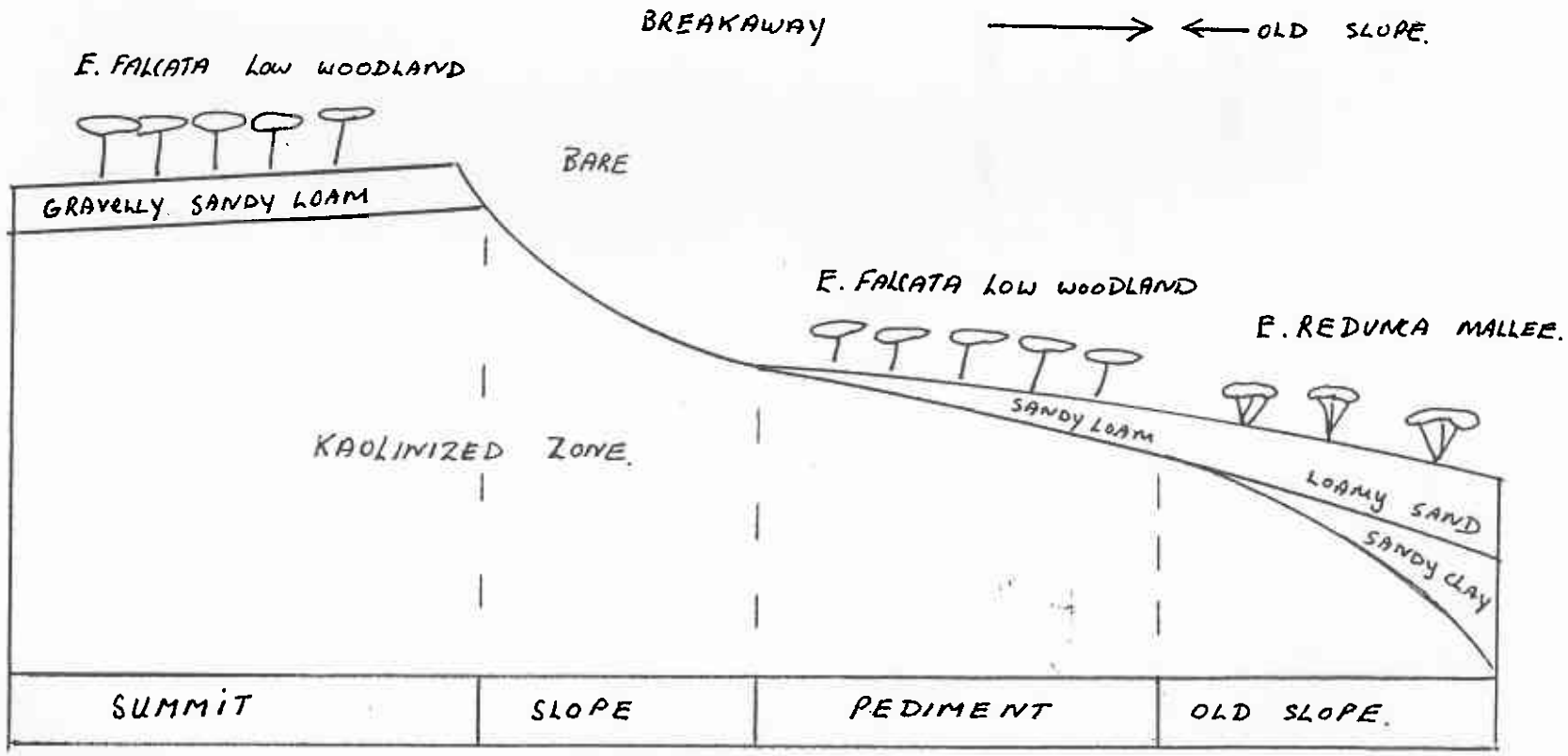
MIXED LOW SHRUBLAND
OR
ALLOCASUARINA CAMPESTRIS
TALL SHRUBLAND
OR
ACACIA LASIOCALYX HEATH



E. OCCIDENTALIS
LOW
WOODLAND.



VEGETATION SEQUENCE ON BREAKAWAY SLOPES.



APPENDIX 5

Lists of Species

APPENDIX 5

TABLE 1

List of Vascular Plant Species observed in the Reserve.

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

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
	Beauforia 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	Wilsonia humilis R. Br.
LAMIACEAE	Westringia cephalantha F. Muell.
ASTERACEAE	Olearia muelleri (Sonder) Benth.
	Olearia revoluta F. Muell. ex Benth.
	Senecio quadridentatus Labill.

APPENDIX 5

TABLE 2

Geographically Restricted Species that might occur in the Reserve.

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

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: o

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

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

Notes &/or description: KSi · SAi · Sci

occasional species:

Open shrub mallee of E. pileata over low shrub A of M. uncinata, over dwarf shrub C, (M. pentagona) Santalum acuminatum Exocarpos sparteus.

Years since last burnt: <40 yrs Intensity of burn: -

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

Soil Texture: light yellowish brown sandy loam with light laterite gravel. Soil colour (Munsell): 10 yr 6/4

Erpsion 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 Seral Stage: climax
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants E. gardneri. SP6	6-8 m	25
Stratum 2		
Dominants M. uncinata	2-3	30
Stratum 3		
Dominants RULINGIA unnamed SP8 ACACIA VISCIFOLIA SP4	·25 - ·5 ·5 - ·7	10 15
Stratum 4		
Dominants		

Notes &/or description: LAi . Si . Sci

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

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

Erpsion 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: 0

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

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

Notes &/or description: LAi . SAi

Low woodland A of gimlet (E. salubris) over low scrub A of M. cucculata

Years since last burnt: >40 Intensity of burn:

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

Soil Texture: Brown sandy clay, slight surface cracking. Soil colour (Munsell): 10 YR 5/3

Erpsion present: No Erosion potential: Low

Degree slope: 1°

Comments: Not a common community type, usually localised. Low species diversity, with occasional species Exocarpos aphyllus, Olearia muelleri.

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 4

Date: Photo No: 84-5 Photo Direction: °

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

Stratum 1	Height	% Cover
Dominants		
E. Transcontinentalis SP16	4-5	15
Stratum 2		
Dominants		
Melaleuca pentagona SP17	1 - 1.5	20-30
melaleuca unnamed SP18	1 - 1.5.	20-30
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: Ksi . Sbi .

Open shrub mallee of redwood. (E. Transcontenentalis) over a low scrub B. of

Years since last burnt: >40 Intensity of burn: -

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

Soil Texture: Pale brown hard-setting sandy loam with lateritic gravel - possibly hard pan. Soil colour (Munsell): 10YR 6/3

Erpsion present: No Erosion potential: V. Light

Degree slope: 1°-2°

Comments:

additional occaesional species SP19 DAVIESIA benthamii ssp.
SP20 melaleuca cardiophylla var parviflora
E. Pileata
E. Eremophila
E. Eremophila (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 Seral Stage: climax
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. tetragona SP21	5-7	5-10
E. Albida SP22	5-7	5-10
Stratum 2		
Dominants		
pryanora unnamed sp. SP23	1.5-2	10
Hakea AFF FALCATA SP24	1-1.5	5
HAKea CRASSIFOLIA SP25	1-1.5	3
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: KSt. SBc.

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):

Erpsion 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. reduncа
SP 28 Calothamnus gracilis E. Pileata.
SP 26 Banksia violacea
SP 27 Petrophile circinata

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

Date: Photo No: 6 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		
E. eremophila SP 31	2-4	5
E. fucunda SP32	1.5-2.5	20
E. brachycorys. SP35	1.5-2.5	5
Stratum 2		
Dominants		
M. uncinata	1-1.5	25
Stratum 3		
Dominants		
M. pentagona SP33	0-0.5.	25.
Stratum 4		
Dominants		

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

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

Erpsion present: No. Erosion potential: V. Light.

Degree slope: 2°

Comments: Occasional species in 2nd layer Exocarpos sparteus SP34
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 Seral Stage: climax
(Tallest stratum is No. 1)

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 GR.	SP40	2 - 3	5 - 10
Stratum 2			
Dominants			
M. uncinata		1 - 1.5	15 - 20
Stratum 3			
Dominants			
melaleuca lateriflora	SP 43	.5 - 1	10
melaleuca ? laxiflora.	SP44	.5 - 1	10
M. pentagona	SP 36	.5 - 1	15
Stratum 4			
Dominants			

Notes &/or description: KSi · SBi · Scc

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

Years since last burnt: >40 Intensity of burn:

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

Soil Texture: light yellowish brown soil, deep sandy loam. Soil colour (Munsell): 10 YR 6/4

Erpsion 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 benth.
SP 42. grevillea pectinata

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

Date: Photo No: 84-9 Photo Direction: °

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

Stratum 1	Height	% Cover
Dominants		
Leptospermum oligandrum SP 54	2.0	5
Stratum 2		
Dominants		
Melaleuca brevifolia SP 45	1 - 1.5	50
GAHNIA AUSTRALIS SP 46	1 - 1.5	10
Melaleuca halmaticeca SP 49	1 - 1.5.	5
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: SAr. SBc.

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): 10 yr 5/2.

Erpsion present: Slight Erosion potential: Moderate.

Degree slope: 2°

Comments: Melaleucas and sedge dominate trough of drainage line. Peripheral vegetation include Yate, Santalum acuminatum, Isopogon buxifolius Hakea obliqua, SP51 Melaleuca aff pungens. 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 Seral Stage: climax
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants E. occidentalis	14-16	4
Stratum 2		
Dominants Leptospermum oligandrum SP54	2.5	40
Stratum 3		
Dominants Lorocanya myriachada	10cm	10%.
Stratum 4		
Dominants		

Notes &/or description: Mr · Sc · VIr.

open woodland of Yate, over Leptospermum thicket, one 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): 10 yr 6/3

Erpsion present: No Erosion potential: Moderate.

Degree slope: ~~to~~ 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 Seral Stage: climax
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. UNCINATA SP56	4-5	10%
E. SPATHULATA VAR grandiflora SP57	3-4	20
Stratum 2		
Dominants		
M. holosericea	1-1.5.	40
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: Ksi. SBc.

Mixed open shrub mallee over heath B over sparse 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

Erpsion present: No Erosion potential: Low

Degree slope: <1°

Comments: Occaisional species: M. UNCINATA in 2ND STRATA.
E. transcontinentalis
Melaleuca 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. Seral Stage: Climax.
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
Grevillea shuttleworthiana SP58	1-2.5	3
Stratum 2		
Dominants		
Petrophile seminudata SP59	0-.5	3
Melaleuca aff leptospermoides SP61	0-.5	5
Callitris rodwayi SP62	0-.75	2
Allocasuarina campestris ssp campestris SP60	0-.5	2
Stratum 3		
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 laterite. Soil colour (Munsell): 10 yr 6/3

Erpsion 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: o

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

Stratum 1	Height	% Cover
Dominants		
E. Transcontinentalis	4-5	10
E. eremophilla	2	1
E. celastroides	2	1
Stratum 2		
Dominants		
Melaleuca bracteosa	.5 - 1.2.	60
M. sp. (incidens) S229.	.5 - 1.0	10
M. cardiophylla	.5 - 1.0	1-3.
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: Ks i. Sc 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.

Erpsion 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 Seral Stage: climax
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. salmonophloia	18-20	8
Stratum 2		
Dominants		
E. pileata	4-5	10
Stratum 3		
Dominants		
Templetonia sulcata	0-0.5	1
Daviesia benthamii subsp. benth.	0-0.5	2
Acacia erinacea	0-10cm	5
Stratum 4 Acacia visiifolia	0-0.5.	2.
Dominants		
Lepidosperma aff. resinosum	0-0.3	4
L. brownianum	0-10cm	1

Notes &/or description: Mr · Ksr · Sdr · VIr.

open woodland of salmon gum over very open shrub mallee over open dwarf scrub D 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

Erpsion 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. Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. Tetragona	3-4	5-8
Stratum 2		
Dominants		
Daviesia incrassata subsp. (MS.)	0-0.5	1
Beaufortia micrantha	"	1
Calothamnus gracilis	"	1
Dryandra ferruginea	"	2-3
Stratum 3		
Dominants		
Meeomelaena stygia	0-20cm	5
Harperia lateriflora	0-10cm	6
Stratum 4		
Dominants		

Notes &/or description: Ksr · Sdi · VIr

Very open shrub mallee of Tallerak, 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

Erpsion present: No Erosion potential: high.

Degree slope: 1-2.

Comments: Very light sands, prone to wind-drift.
Occasional species: Dryandra aff Teretifolia
Eremaea 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: 0

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

Stratum 1	Height	% Cover
Dominants		
E. FALcata.	6-7	40
E. ASTRINGENS	7-8	5
B. gardneri	6-7	2
Stratum 2 B. incrassata	6-7	30
Dominants		
M. uncinata.	1.5-2	10
Hakea laurina	1.5-2	1
Stratum 3		
Dominants		
Acacia Laricina	0-0.5	5
Spyridium cordatum	0-0.5.	10
Stratum 4		
Dominants		

Notes &/or description: LAc · SAr · Sdi.
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.

Erpsion present: No Erosion potential: V. Light.

Degree slope: 2-3°

Comments: A variation on mallet thickets common in the reserve. Occasional species: Dodonea amblyophylla, Adenanthos glabrescens subsp. glabrescens., Oxylobium parviflorum, Lepidospermum aff resinosum.

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

Date: Photo No: 84-24 Photo Direction: °

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

Stratum 1	Height	% Cover
Dominants		
E. ANNULATA	3-5	60
Stratum 2		
Dominants		
EXOCARPOS APHYLLUS	.5 - 1	7
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: LBc . Scr.

low forest B 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

Erpsion present: no Erosion potential: V Low.

Degree slope: 1°

Comments: Water gaining area, winter logging.
occasional species Hakea 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 Seral Stage: climax
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. redunca	4-5	30
E. uncinata	3-4	10
E. eremophila	3-4	5
Stratum 2		
Dominants		
M. uncinata	1-1.5	15
Daviesia benthamii subsp. benth.	0.5-0.8	1
Stratum 3		
Dominants		
Thysanotus coralatum	0-10cm	15
Hydrocotyle drummondii	0-20cm	1
Stratum 4		
Dominants		

Notes &/or description: KSC . SBC , SDC

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

Years since last burnt: >40 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

Erpsion present: No Erosion potential: V. low

Degree slope: 2-3°

Comments:

Occasional species: Hakea commutata
Melaleuca pentagona
Grevillea disjuncta
Westringia cephalantha
H. multilineata

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 Seral Stage: climax
(Tallest stratum is No. 1)

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

Notes &/or description: Mi . Sr

Woodland of Merrit over open scrub.

Years since last burnt: >40 Intensity of burn:

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

Soil Texture: Brown hardsetting loam Soil colour (Munsell): 10 YR 5/3

Erpsion present: No Erosion potential: V. low

Degree slope: 1-2°

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

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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): 2 Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. Salubris	6-12	60
Stratum 2		
Dominants		
Melaleuca aff cuticularis	.5 - 2	10
M. cardiophylla	.5 - 1	25.
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: LAC . SCC.

low forest A of gimlet, other low heath c.

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): 10 yr 5/3

Erpsion 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
Exocarpos aphyllus.
Melaleuca adnata
Casuarina melanthe

DUNN ROCK VEGETATION SURVEY PRO FORMA SHEET, STOP NO. 20

Date:

Photo No: 84-32 Photo Direction: 0

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

Stratum 1	Height	% Cover
Dominants		
E. Pileata	3-4	7
E. celastroides	"	7
E. eremophila	"	30
E. TRANSCONTINENTALIS	4-5	15
Stratum 2		
Dominants		
Exocarpus Aphyllus	1-5	2.
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: KSC. · SBi.

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

Erpsion present: No Erosion potential: V. Low

Degree slope: 0°

Comments: water gaining area, drainage line
occasional species: Boronia inornata
Dillwynia uncinata
Hibbertia enervia
Microcybe albiflora

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

Date: Photo No: 84-34 Photo Direction: 0

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

Stratum 1	Height	% Cover
Dominants		
E. tetragona	3-4	1
E. albida	"	1
Lambertia inermis	"	1
Allocasuarina pinaster	2-3	5
Stratum 2		
Dominants		
Hakea aff marginata	1.5	2
Beaufortia schaueri SP123	0.5 - 0.7	2
Dryandra aff armata.	1 - 1.5	5
Banksia vidacea	0.5 - 0.7	1
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: KSr • SBc • SDr

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

Years since last burnt: >40 Intensity of burn:

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

Soil Texture: light gray sandy loam with gravel, over laterite Soil colour (Munsell): 10yr 7/2.

Erpsion 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 spathulata
124 Callitris canescens
SP 122. Dwresia 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 Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. eremophila	4 - 6	5 - 8.
Stratum 2		
Dominants		
Hakea nitida	2.0 - 2.5	1
Banksia media	3. - 3.5.	2
Leptospermum erubescens.	1.5 - 2.0	10
Calytrix preissii subsp. verrucosa	4.	1
Stratum 3		
Dominants		
Baeckeaya myriaclada	~10cm.	5 - 8
Stratum 4		
Dominants		

Notes &/or description: Ksr. Sc VIc

Very open shrub mallee over scrub, over open low sedges

Years since last burnt: >30 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

Erpsion present: No Erosion potential: V. Low

Degree slope: <1°

Comments: Valley floor.

Occasional species: E. uncinata
E. 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 SP 127	4-5	2
E. ALbida	4-5	2
Stratum 2		
Dominants.		
Xanthorrhoea	0.5	1
SP 128 melaleuca aff leptophemoides	1	1
SP 130 HAKea SP NOV	"	1
SP 129. Petrophile seminada	"	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 grey sand. Soil colour (Munsell): 10 yr 7/2

Erpsion present: No 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: 84-40

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		
Acacia lasiocalyx	3-5	30
Acacia microbotrya	3-5	3
Stratum 2		
Dominants		
Allocasuarina campestris	0.5	5
M. elliptica	0.5	2
Stratum 3		
Dominants		
Lepidosperma pruinosum	0.1	10
Baeckea crispiflora SP136	0.2	5
Stratum 4		
Dominants		

Notes &/or description: LBi · SDi · 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

Erpsion present: No

Erosion potential: V Light

Degree slope: 1-3

Comments: Near granite outcrop.
Occaisional species: Calothamnus quadrifus
SP132 Acacia SALIGNA
SP134 A. SESSILISPICA
SP135 Dodonaea 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 Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. redunca SP158	3-4	5-8
Stratum 2		
Dominants		
Olax benthamii	0.5	1
Xanthorrhoea effusa		1
Leptospermum erubescens		
Stratum 3		
Dominants		
Mesomelaena stygia	5-10	3
Harperia lateriflora	5-10	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: 0-2cm , ~5% cover.

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

Erpsion 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 microstachya Harperia lateriflora
Isopogon buxifolius Dryandra aff. pteridifolia
Synaphea polymorpha Lysinema ciliatum

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

Date: Photo No: 84-43 Photo Direction: 0

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

Stratum 1	Height	% Cover
Dominants		
E. spathulata ssp.	1.5-3	5
E. indet. SP139	1.5 - 3.0	5
E. incrassata SP140	1.5 - 3.0	1
Stratum 2		
Dominants		
M. uncinata	0.5 - 1.0	15
Stratum 3		
Dominants		
Hakea cf. marginata	0.5	1
Grevillea petentiloba 141	0.25	1
M. cf. leptospermoides 142	0.25	1
Stratum 4 150 Pogon buxifolius	0.25	1
Dominants		

Notes &/or description: Ksi . SCi . SDi

Mixed open scrub mallee over dwarf scrub C 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

Erpsion 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 Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. Foecunda SP146	2-3	10
E. aff uncinata SP147	3-4	2
Exocarpus sparsens	3-4	1
Stratum 2		
Dominants		
Olearia revoluta	1	1
Hakea corymbosa	1-1.5	1
Melaleuca hentagona SP148	1-1.5	1
Stratum 3 Leptospermum SP145 erubescens.	1	3
Dominants		
Grevillea aff pulchella	0.5	1
Stratum 4		
Dominants		

Notes &/or description: KS i. 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

Erpsion 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 Ligulata
SP 149 Acacia microbotrys.

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): Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. occidentalis	1-20m	15
Melaleuca cuticularis.	1-5m.	20
Stratum 2		
Dominants		
Disphyma crassifolium	~5 cm.	10-15.
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: Mi . LBi . 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: greyish brown hardsetting loam. Soil colour (Munsell):

Erpsion 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: 84-47

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		
E. salmonophloia	15 - 16	5
Stratum 2		
Dominants		
E. uncinata	3-4	3
Exocarpos sparteus	2-3	1
Acacia microbotrya	3-4	1
Stratum 3		
Dominants		
Olearia revoluta	0.5	1
O. meuelleri	0.5	1
Stratum 4		
Dominants		
Lepidosperma effusum	0.1	15
DYSPHYMA CRASSIFOLIUM	5cm	2

Notes &/or description: Mr. Sr SDr VIc

Open woodland of Salmon gum, over open scrub, over open dwarf scrub, over open low sedges.

Years since last burnt: >40

Intensity of burn: —

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

Soil Texture: Yellowish brown sand, calcareous at depth.

Soil colour (Munsell): 10 yr 5/4

Erpsion present: No

Erosion potential: Low

Degree slope: level crest.

Comments: Occasional species: Dodonaea sp
Acacia figulata
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		
E. incrassata SP 152	2.5-4	7
Callitris preissii subsh. ver. 157	2-3	1
P. Lafoecunda 157	2-3	2
Stratum 2		
Dominants		
M. uncinata	1-2	5
Hakea corymbosa	1-1.5	1
Leptospermum roei 153	1-2	1
Stratum 3		
Dominants		
Beaufortia micrantha 155	.2-.5	2
Coleanthera myrtoides 154	"	1
Melaleuca of leptospermoides 156	"	7
Stratum 4 Daviesia lancifolia 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)

Erpsion present: No

Erosion potential: Moderate.

Degree slope: 0-1°

Comments: Occasional species: Isopogon linsifolius
Santalum acuminatum.

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

Date:

Photo No: 84-52 Photo Direction: o

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

Stratum 1	Height	% Cover
Dominants		
E. foecunda.	2-3	3
E. uncinata	4-5.	7
Stratum 2		
Dominants		
Melaleuca. uncinata	1.5-2	10
Hakea corymbosa	1.5	1
Stratum 3		
Dominants		
grevillea pectinata	1	1
Cryptandra tomentosa 160	.5	5
acacia chrysella 161	1	1
Stratum 4 Pultenaea eff. adunca 163	.5	1
Dominants		
Gahnia ancistrophylla 162	10cm	8
Lepidosperma MYRIACLADA 46	10cm.	3.

Notes &/or description: KSi . SAi . SCi . VIi
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

Erpsion present: No Erosion potential: Moderate

Degree slope: 0-4

Comments: crest and upper slope of lunette.
occaesional 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 Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
Salicornia squamatus 165	2 - 20 cm	2
Frankenia tetrapetala 167	2 - 5 "	1
Halosarcia 166	2 - 10 "	6
Halosarcia 168	2 - 20 "	10
Stratum 2		
Dominants		
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: Ji
open herbland.

Years since last burnt: – Intensity of burn: –

Litter depth & density: –

Soil Texture: Very pale brown silty loam Soil colour (Munsell): 10YR 8/3

Erpsion present: Erosion potential: –

Degree slope: 0°

Comments: Samphire flat on salt pan.
Plant diversity increased to perimeter, species 168 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): 4 Seral Stage: climax
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants E. Kondininensis	18-23	10%
Stratum 2		
Dominants melaleuca thyoides 171	4-5	15
Stratum 3		
Dominants melaleuca acuminata 169	1-20	25.
Stratum 4		
Dominants Stipa juncifolia 176	20cm	5.

Notes &/or description: Mi · Si · SAi · 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

Erpsion 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 173 Threlkeldia diffusa. DYSPHYMA CRASSIFOLIUM

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

Date: Photo No: 84-57 Photo Direction: °

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

Stratum 1	Height	% Cover
Dominants		
E. congolobata 172	6-8	5
Stratum 2		
Dominants		
Melaleuca lateriflora 180	2 - 2.5	25
M. uncinata	2 - 2.5	2
Stratum 3		
Dominants		
Gahnia australis 181	0.5	30
acacia chrysella 161	0.5	1
Olearia revoluta	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: grey sandy clay. Soil colour (Munsell): 10yr 5/1

Erpsion 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 cinerea
178 Leucopogon fimbriatus
Alyxia buxifolia. Santalum acuminatum

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

Date: Photo No: 84-58 Photo Direction: o

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

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

Notes &/or description: KSi. Si. SEi

mixed open shrub mallee over scrub, over dwarf scrub c.

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

Erpsion present: No Erosion potential: V. Low

Degree slope: 0-1°

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

Occaisional species: E. incrassata
Templetonia sulcata
Melaleuca holosericea
sp. 189 M. acuminata
sp 190 M. cardiophylla var parviflora.

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 Seral Stage: climax
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
M. aff. cuticularis	3-4	5
M. thyoides SP 171	4	8
M aff oxabre	2.5	1
M aff lanceolata	3	1
Stratum 2		
Dominants		
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: L.A.i.
low woodland of Melaleuca.

Years since last burnt: >40 Intensity of burn: –

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

Soil Texture: loamy sand over clay Soil colour (Munsell): 10yr 4/1

Erpsion present: – Erosion potential:

Degree slope: 0°

Comments: Melaleuca thicket on lake margin.
Occaisional species in low strata (< 0.5m)
Atriplex (SP 182). cinerea

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): 3 Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. pileata 194	4-5	20
E. pileata 195	4-5	20
E. eremophila 196	3-4	5
Stratum 2		
Dominants		
melaleuca sp. nov. 192	2	1
Stratum 3		
Dominants		
Microcylla multiflora 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: <40 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

Erpsion present: – Erosion potential: V. low.

Degree slope: 0°

Comments:

occaisional 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 Seral Stage:
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		
E. Salubris	5-6	60
Stratum 2		
Dominants		
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: LBC.
Low forest B of gimlet

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.

Erpsion present: No Erosion potential: —

Degree slope: 2-3°

Comments: Regenerating gimlet thick, with very sparse understorey.

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

Date: Photo No: 84-68 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. FALCATA	8-10	60
Stratum 2		
Dominants		
Bayeria lechenaultii 201	1.5-2	20
Leptomeria pauciflora 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 lateritic gravel. Soil colour (Munsell): 10yr 6/3

Erpsion 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 Phebalium sp. Pilifolium
205 Leucopogon cuneifolius
206 Rulingia sp. nov.
207 Dodonaea 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): 2 Seral Stage: 84-69
(Tallest stratum is No. 1)

Stratum 1	Height	% Cover
Dominants		8%
Banksia media	2-3	
E. incrassata	3-4	1
E. eremophila	3-4	1
Stratum 2		
Dominants		
melaleuca pentagona complex	0.5	60
assorted occasional shrubs	0.3-0.5	10-15
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: LBr. SDd.
Open low woodland B of Banksia with mallee over dense low heath D

Years since last burnt: >40 Intensity of burn:

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

Soil Texture: light yellowish brown sandy loam over weathered granite Soil colour (Munsell):

Erpsion present: No Erosion potential: moderate

Degree slope: 2-3°

Comments: Occasional species: Grevillea pectinata E. foecunda
Leucopogon polymorphus E. redunca.
Melaleuca cf depauperata
Baeckea coryneophylla
Melaleuca subfalcata

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

Date: Photo No: 84-71 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		
E. salmonophloia	12-15	15-17
Stratum 2		
Dominants		
Acacia microbotrya	2-4	3
Exocarpos sparteus	3-4	1
Stratum 3		
Dominants		
Lepidosperma pruinosum	0-20	15
Lomandra effusa	0-10	1
Lomandra micrantha	0-10	1
Stratum 4 Jahnia ancistrophylla	0-10	15
Dominants		

Notes &/or description: M i . Sr : VIc

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.

Erpsion 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: o

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

Stratum 1	Height	% Cover
Dominants		
Allocasuarina huegeliana	3-5	40-70 (Patchy)
Stratum 2		
Dominants		
Lepidosperma drummondii	0.3 m	5
Spartochloa scirpoidea	0.3m.	5
Stratum 3		
Dominants		
Stratum 4		
Dominants		

Notes &/or description: LBc . VIi . 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.

Erpsion present: no Erosion potential: V. Low

Degree slope: 3°

Comments: Sheoak thicket near granite apron. occasional species: Dollya heterophylla.

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

Date:

Photo No: 84-74 Photo Direction: o

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

Seral Stage:

Stratum 1	Height	% Cover
Dominants		
Acacia lasiocalyx	4-6	60
Stratum 2		
Dominants		
M. elliptica	1.5-20	3
Thryptomene australis	1.5	2
Stratum 3		
Dominants		
Lepidosperma pruinosum	30 cm	1
Spartochloa scirpoidea	"	1
Stratum 4		
Dominants		

Notes &/or description: LBc • SAr • VIr

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

Erpsion 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: 0

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

Stratum 1	Height	% Cover
Dominants		
E. occidentalis	10-12	15.
Stratum 2		
Dominants		
Dodonaea ceratocarpa	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.

Erpsion present: No Erosion potential: V. Low

Degree slope: 1°

Comments: In depression, Dunn rock apron.

Occasional species: Hakea laurina, E. pilularis, Acacia ericacea, M. uncinata, Olearia revoluta, Dianella revoluta, Calathamnus quadrifus, Thryptomene australis, Styphandra imbricata, Allocasuarina huegeliana Lepidosperma pruinosum. 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.

PLATE 1

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.

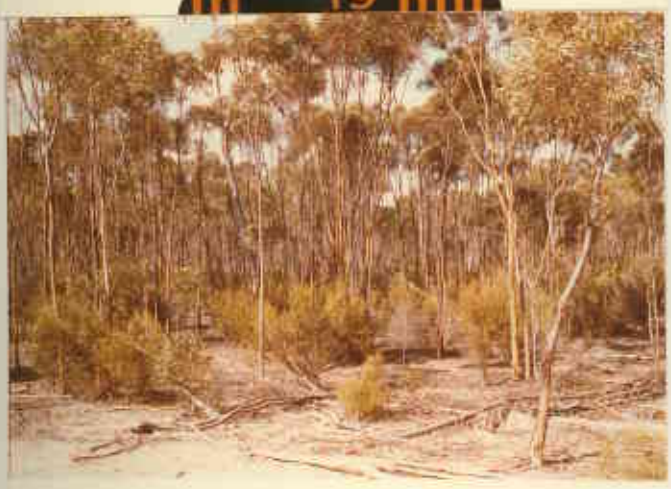
PLATE 3

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.

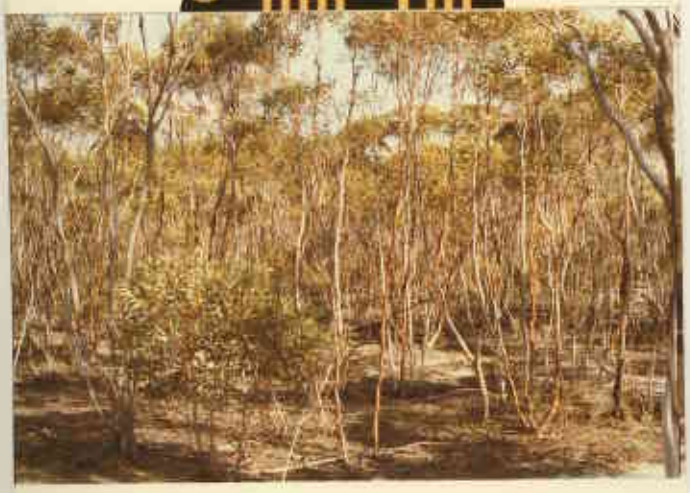
5. Location 22: Very Open Shrub Mallee over Scrub, over Open Low Sedges.

6. Location 23: Very Open Shrub Mallee over Low Heath D.

PLATE 4

18 84-28

S 19 84-30



S20 84-32

S 21 84-34

S 22 84-37

S23 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.

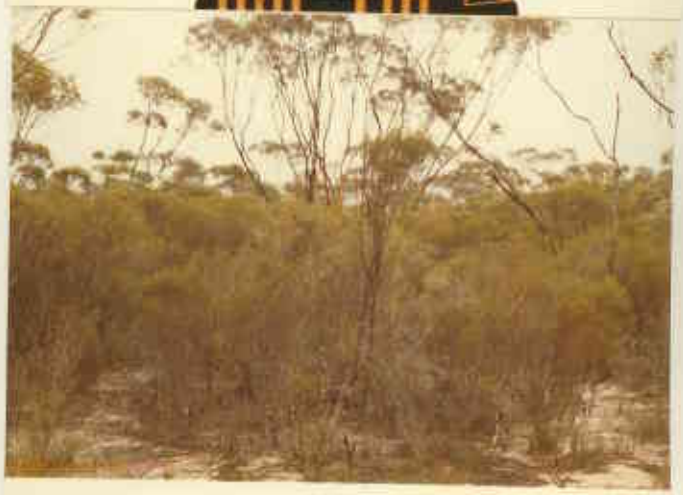
6. Location 28: Open Woodland of Yate (with regeneration), over Low Woodland B, over Open Herbs.

PLATE 5

S24 84-40

S25 84 - 42

S26a (regen) 84 - 43



S26 b (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

S29 84-47

S30 84-49

S31 84-52

S32 84-54

S33 84-56

S34 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

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

23

S42 84-73

25

S43 84-74

26

S44 84-75

27

S45 84-77

29