

THE LIBRARY
DEPARTMENT OF CONSERVATION
& LAND MANAGEMENT.
WESTERN AUSTRALIA

YALGORUP NATIONAL PARK

WORKING PLAN

Period 1975 - 1980

Ьу

Dr. Francis G. Smith, Director

NATIONAL PARKS BOARD

1975

CONTENTS

PART I

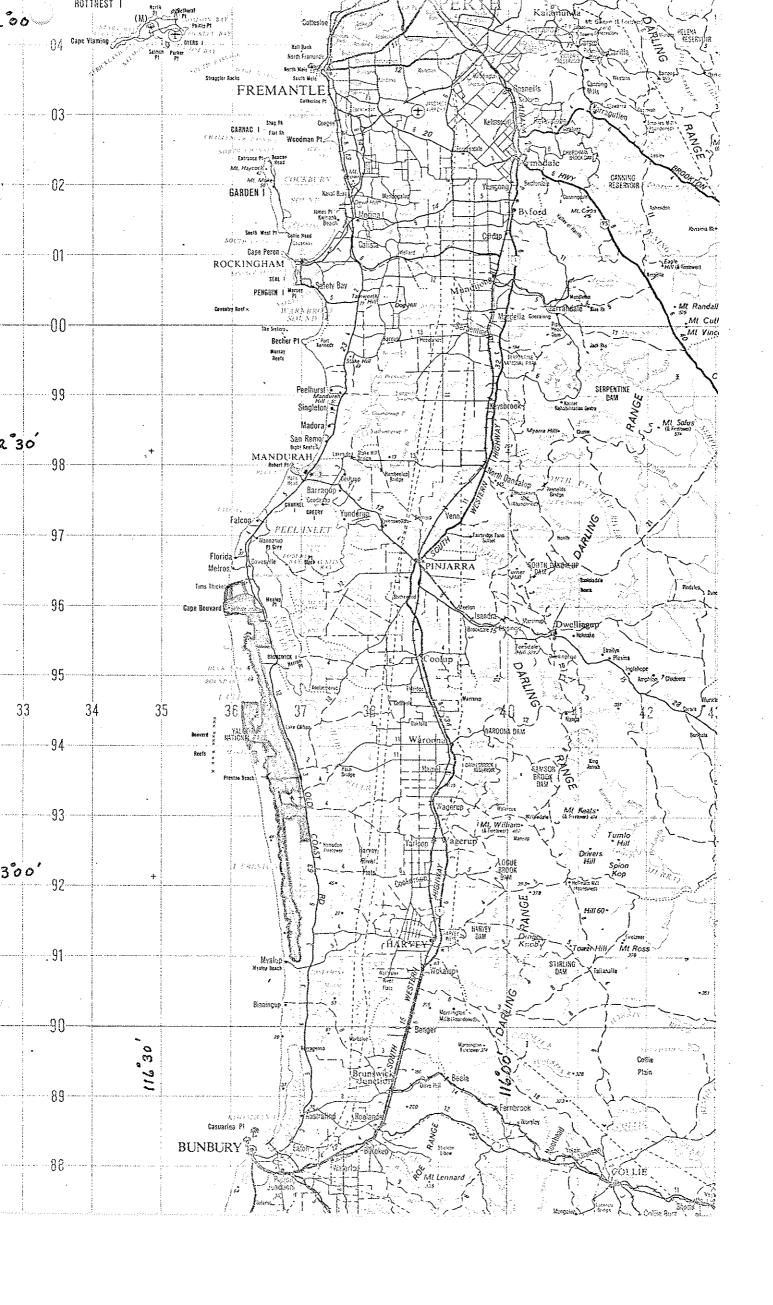
SUMMARY OF FACTS ON WHICH PROPOSALS ARE BASED

			<u>Page Nos.</u>				
1.	DESCR	RIPTION OF TRACT					
	1.1	Name, situation and authority	1,2 & 3				
	1.2	Boundaries	4 & 5				
	1.3	Distribution and areas	6				
	1.4	Configuration	7 & 8				
	1.5	Rocks and soil	9 & 10				
	1.5	Climate	11				
	1.7	Vegetation formations and type	12 & 13				
	1.8	Animal life	14				
	1.9	Rights and privileges	15 & 16				
2.	DESCI						
	2.1	Composition and condition	17				
	2.2	Injuries to which the vegetation is liable	18 & 19				
	2.3	Fire history	20 & 21				
3.	DESC						
	3.1	Population and Migration	22				
	3.2	Dangers to animal life	23				
4.	STAF	STAFF AND LABOUR					
	4.1	Composition and pay	24				
	4.2	Housing and allowances	25				
5.	PUBL						
	5.1	Current use	26				
	5.2	Areas of attraction	27,28 & 29				
	5.3	Communications, roads and paths	30 & 31				
		Accommodation and camping	22				
	5.5	Amenities, parking areas, lookouts and pionic areas	33				
	5.6	Information, resource interpretation	34				
6.	PAST	MANAGEMENT .					
	6.1	History of the park	35 & 36				
	6.2	Past systems of management and their results	37				
	6.3	Special works of improvement undertaken	38				
	6.4	Revenue and expenditura	39				

PART II

FUTURE MANAGEMENT DISCUSSED AND PRESCRIBED

			Page	e Nos.		
7.	BASIS OF PROPOSA	LS				
	7.1 Objects of	management	40	<u>\$</u> 41		
	7.2 Special fac	tors affecting management	42	£ 43		
	7.3 Methods of	treatment	44			
	7.4 Pariod of t	the working plan	45			
8.	ECOLOGICAL MANAGEMENT					
	8.1 Blocks		46			
	8.2 Ecological	Units	47	& 48		
		Management Prescriptions	49 8	£ 50		
	8.4 Weed Eradic		51			
		Plant Succession	52			
	8.6 Ecological	-	53			
	8.7 Fire Contro	1	54			
9.	PUBLIC USE					
	9.1 Zones of Us	9	55 8	£ 56		
	9.2 Facilities	for use	57 8	£ 58		
	9.3 Control of	use	59			
10.	INFORMATION FOR	THE PUBLIC	60			
11.	WORKS AND CONSTR	UCTION	61 8	62		
12.	6TAFF AND LABOUR		63			
13	AGREEMENTS AND A	CQUISITIONS	64 8	65		
14.	FINANCIAL ESTIMA	TES	66			
		M A P S				
	LOCATION MAP		Inne	r cover		
	BOUNDARIES OF NAT		4			
	FIRE HISTORY PLAT		20			
	ECOLOGICAL MANAGI	EMENT PLAN	46			
	DEVELOPMENT PLAN		5 5			



YALGORUP NATIONAL PARK

WORKING PLAN

PART I Summary of Facts on which Proposals are Based:

- DESCRIPTION OF TRACT
- 1.1 Name, situation and authority :-
 - 1.1.1 The YALGORUP NATIONAL PARK was named on 26th January, 1968. The name is a coined Aboriginal word, a combination of "yelgor" meaning a swamp or lake with the widely used suffix "up" meaning a place.
 - 1.1.2 The Park consists of Class "A" Reserves Nos. 11710, 22057 and 12189 situated west of the Old Coast Road from Mandurah to Australind from Cape Bouvard in the north to the southern and of Lake Preston in the south, and lies between Lat. 32⁰40' and 33⁰10'S and Long. 115⁰12' and 115⁰43'E.
 - 1.1.3 Class "A" Reserve No. 11713 was proclaimed a
 National Park under the control and management of
 the National Parks Board in Government Gazette
 26th January, 1968 p.152, consisting at that time
 of Wellington Locations 1818, 1944, 2443, 3121,
 3322, 4470, 4792, 4910 and 5003.
 - 1.1.4 Reserve No. 23597, consisting of Wellington Locations 2731, 3015 and 4471 immediately west of the Mandurah— Australind Old Coast Road and south of Preston Beach Road were included in the National Park "A" 11710, Government Gazette 30th May, 1969 p.1600.
 - 1.1.5 A small Class "A" Reserve No. 998 at the side of the Old Coest Road, Wellington Loc. 4630 was vested in the National Parks Board for camping and recreation, Government Gazette 29th August, 1969 and was included in the National Park "A" 11710 on .../2..

- 1.1.5 Cont.
 29th January, 197\$ p.303.
- 1.1.6 A large Reserve. A.12189 1 384 he, between the Mandurah-Australind Old Coast Road and Cape Bouvard (White Hill) was vested in the National Parks Board 27th March, 1969, and became a National Park, Government Gazette 16th February, 1973 p.466.
- 1.1.7 Class "A" Reserve 22057, Wellington Locations 4079, 4732, 4926 between former Reserve 23597 and Lake Preston was vested in the National Parks Board for Conservation of Flora and Fauna 16th May, 1969 and became a National Park, Government Gazette 26th January, 1973 p.240, and put under control and management of the Board 12th July, 1974.
- 1.1.8 Class "A" Reserve 997, Wellington Location 4631, a small area beside the Old Coast Road, was added to "A" 11710 Government Gazette 23rd January, 1970 p.154.
- 1.1.9 Class "A" Reserve No. 1170 consisting of Lakes Clifton and Preston, about 5 018 ha, was included in Class "A" Reserve 11710 Government Gazette 2nd June, 1971 p.2352.
- 1.1.10 Wellington Location 4981, on the west shore of Lake
 Clifton was added to "A" 11710 Government Gazette
 19th May, 1972 p.1180.
- 1.1.11 National Parks Board of W.A. was appointed as a Board to control and manage Class "A" Reserve 11710 (Murray and Wellington Districts) "National Park", Government Gazette 11th August, 1972 p.3036.

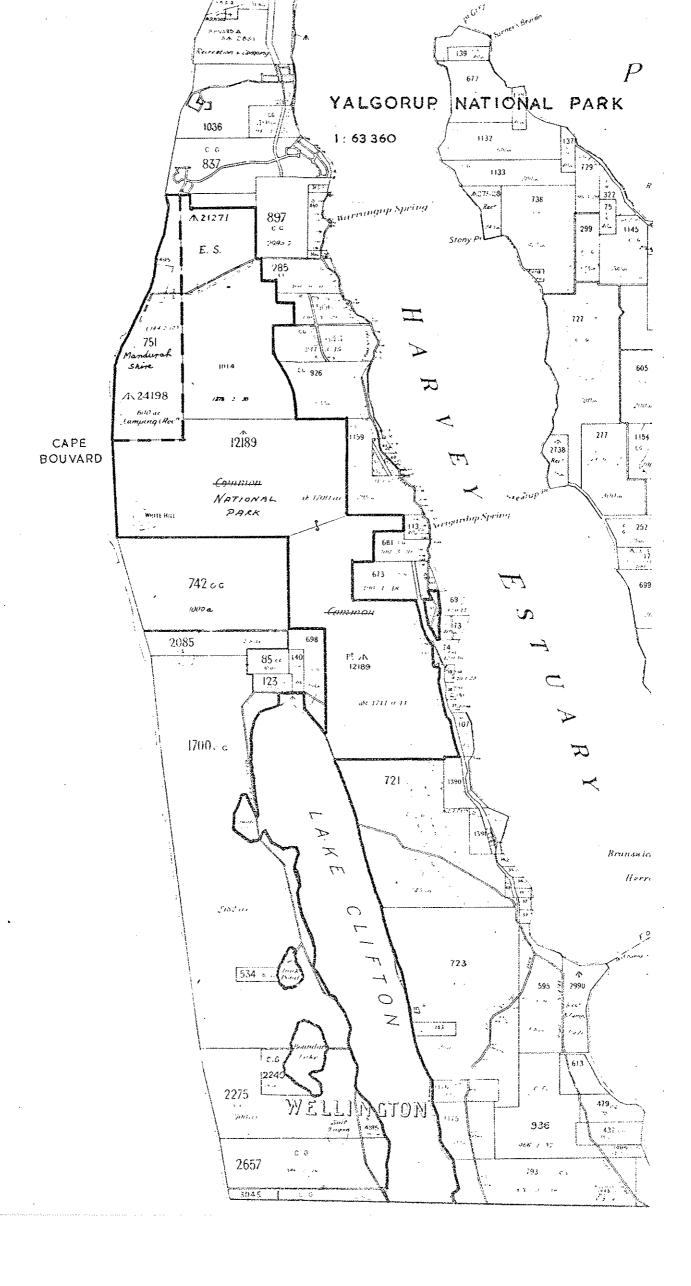
- 1.1.12 Location Nos. 1395 and 1189 were to come to the

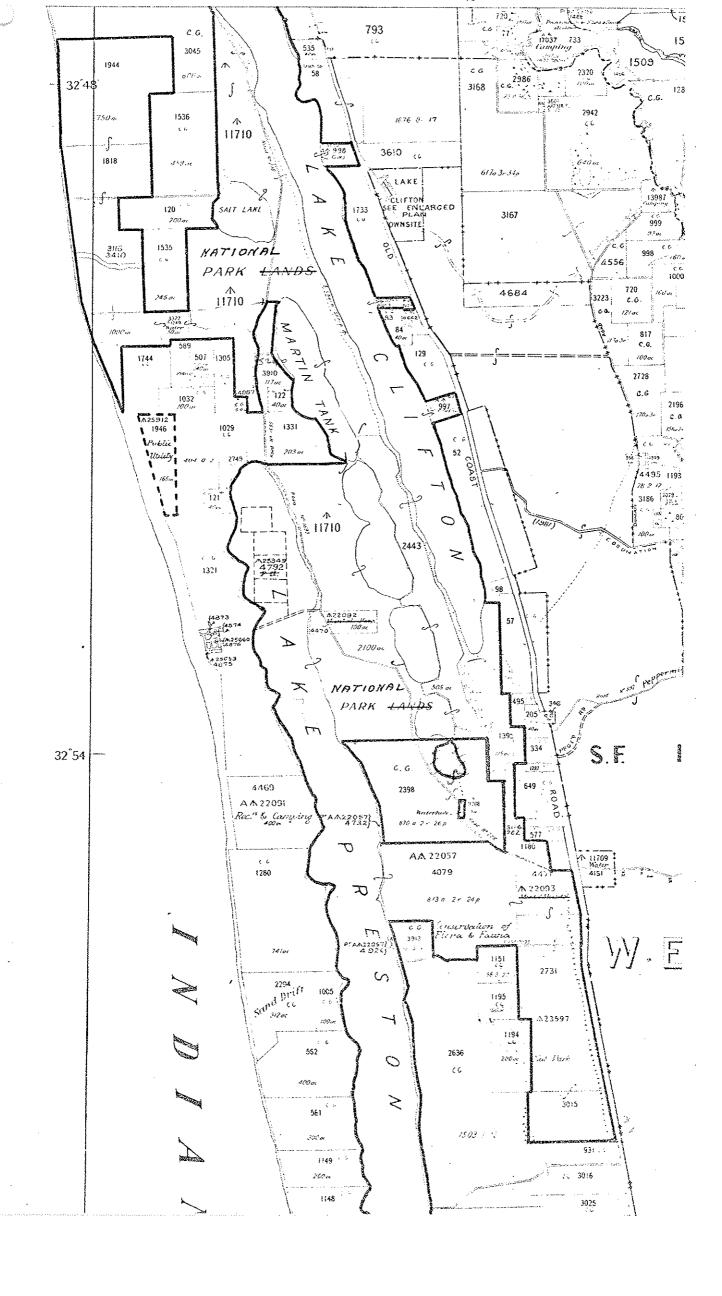
 National Parks but parts of Location 1180 are

 being traded for part of 649 to form a corridor joining two parts of the park south of Lake Clifton,
 in the vicinity of Preston Beach Road (Road No. 228).

 (Ref. file 20/1 fol.310; 388). This is expected
 to be finalised by mid June, 1974. (See 1.1.16).
- 1.1.13 Reserve 21271 north of A.12189 is expected to come to the Perk, after cutting off a small part of the north and for Youth Camp Sites. (Ref. file 20/1 fol.373). Added GG 31 Dec 75 f. 4708 appoints N.P.B. Accorded and many Resem 21271 as National Park, 519:7621 has
- 1.1.14 Reserve 25912 is also expected to be included in the National Park (Ref. file 20/1 V.2 fol.521).
- 1.1.15 Boundary Lake Location No. 5182 and Duck Pond
 Location No. 5181 were added to the park April 18,
 1975 (Ref. file 20/1 V.3 fol.572) G.G. p.1146.
- 1.1.16 Wellington Locations 1180, 1395 & 5128 were added to Class "A" Reserve No. 11710 on May 16, 1975 (Ref. file 20/1 V.3 fol.387).
- 1.1.17 Wellington Location 1537, a small area north west of Salt Lake was added to the park May 23, 1975 (Ref. file 20/1 V.3 fol.591).

1-1.18 Mun Locato 1671, former forter of Mung Le. 742
men White Hell of 202, 6 ha added 60 1 /1/77 1.1972





3185 *v= 595 ___ 715 . 638 1538 3003. c00oc 1008 1565 3360^{to} 200 a. 712 . . <: 1503 3095 : 1734 200 es 703 1527 ¢.ů. :251 1059 31**93** 1559 59 σ 3355 806 260 260w \mathcal{F} 705 5 5 673 S 3196 48 STA 41200 0 FO 1 1238 1313 N 698 1116 700 m MYALUP BEACH **21** c c ئے۔ 20 د د SINNINGUP TOWNSITE, SEE ENLARGED PLAN Bonne Modified Conical

1.2 Boundaries

- 1.2.1 The boundaries of Yalgorup National Park are defined on Lands Department Plans 380D/40, 381C/40, 383D/40 and 383A/40, Scale 1:31680, and are the boundaries of Reserve A.11710 including Lakes Clifton and Preston together with A.22057 and A.12189.
- 1.2.2 The boundaries of the land areas are fenced where they adjoin private property. The northern and western boundaries of A.12189 adjoining Reserves 24198 and 21271 are not fenced.
- 1.2.3 The boundaries of Lakes Clifton and Preston are the high water mark, taken to include the fringe of Paperbark, reeds and sedges around the edges, which are subject to inundation in the winter months. In some areas the boundaries of properties outside the Parks extend to the edge of the Lake and are unfenced.
- 1.2.4 The western shore of Leke Preston is Minor Road
 No. 233 Government Gazette 24th March, 1886 p.197,
 extending from near the north end of the lake and
 extending southward along the western side of the
 lake to its southern extremity, thence easterly to
 the surveyed Coast Road near the 19 mile post. North
 from the Preston Boach Road, where it crosses the
 lake, the road reserve has been surveyed (OP9108).
 Most of the eastern shore is protected by parts of
 A.22057 in the form of narrow strips along the shore,
 4732 between Location 2398 and the lake, and 4926
 extending south to the North West corner of Location
 60.
- 1.2.5 To the north west of Lake Clifton, the properties appear to come down to the Lake's edge, but in the north east the boundaries of Locations 721, 723,

1.2.5 Cont.

143, 1176, 1175, 793, 1733 and 129 are set back from the Lake's edge. Elsewhere on the eastern side of the lake the properties go to the Lake's edge. A small public recreation reserve 28796 (Location 1591) exists at the edge of Lake Clifton, block 793.

1.2.6 A recreation reserve 27458 (Location 4966) occurs at the south eastern end of Lake Preston.

1.3 Distribution and Area

- 1.3.1 The Yalgorup National Park is composed of widely scattered blocks of land, and long narrow lakes.
- 1.3.2 The northern block, A.12189, at the north end of Lake Clifton, lying between Cape Souvard and the Harvey Estuary, contains approximately 1 384 ha.
- 1.3.3 The rost of the land area, which includes the Martin Tank chain of swamps, consists of A.11710, 3 719 ha, together with A.22057, 359 ha - a total of 4 078 ha approximately.
- 1.3.4 Lake Clifton is 22 km long by 0.8 km to 1.3 km wide and Lake Preston is 28 km long by 0.8 km to 1.5 km wide. The combined areas of these two lakes is 5 018 ha.
- 1.3.5 The areas of individual blocks are as follows to the nearest hectare.

Reserve	Location	No.	Area	<u>Total (Approx)</u>
A.12189		block block	690 694	1 384
A•11710	northern northern 1813 1944 2443 3121 3322 4470 4792 4910 5003	block bleck	1 220 851 405 304 204 40 20 40 9	3 100
23597	2731 3015 4471		312 109 78	499
997	4631		19	19
998	4630		20	20
	4981		70	70
A.22957	4079 4732 4926		354 na <u>n</u> 3	354
A.1179	Lake Clif Lake Pres		A	5 018

Appreximate Total 19 464 he /7...

1.4 Configuration

- 1.4.1 The region in which Yalgorup Mational Park is situated consists of long low ridges running approximately north and south, separated by long narrow lakes, swamps or chains of lakes and swamps.
- 1.4.2 To the west is the Indian Ocean with the 7 km long
 Souvard Reefs, just inside the 10 fathom line, 5 km
 from the shore in the south closing to 4 km in the
 north.
- 1.4.3 Sand dunes rise steeply from the beaches to over 20 m; occasional dunes reach about 50 m. The dunes vary in width from 1 to 2 km, before falling steeply to Lake Preston in the south, and to low ground being a continuance of the Lake Clifton depression to the north. The most conspicuous height is White Hill, the conical top of a sand dune, immediately inland from Caps Bouverd and an important navigation mark for coastal shipping. Only north of Caps Souverd is rock apparent in the shore line.
- 1.4.4 Inland from the active send dunes of the coastline, there are older stabilised dunes, particularly in the Cape Bouvard area.
- 1.4.5 In the depression extending north-northwest from

 Lake Clifton there is a series of beach sand ridges,

 formed by a steadily falling see level which isolated

 Lake Clifton from the see. The pattern of ridges

 appears to have been influenced by former rocky

 islands northwards from Cape Bouverd.
- 1.4.6 Between Lake Preston and the Martin Tank chain of lakes, and the swamps extending south-southeast from Lake Clifton is a low ridge with eccesional rocky

1.4.6 Cont.

hills with exposed hard calcareous cap rock. These extend to the Cape Bouvard area.

- 1.4.7 The Mortin Tank chain and Lake Clifton are separated by a very low sandy ridge. To the east of Lake Clifton and its southern swamp extension there is a gently sloping rise to the Mandarah-Australind Old Coast Road followed by a steeper slope up to the main ridge which extends north-norwest from the Collie River at Australind, to Dawesville where it bends to the north and then north-noreast to end at Holls Head, Mandurah.
- 1.4.8 No rivers or streams occur. Drainage is by seepage through the sand and limestone. Lake Clifton has practically fresh water while Lake Preston is very salty and less than 2 m above mean sea level.

1.5 Rock and Soil

- 1.5.1 The only rock occurring in the area is limestone in various forms. Aeolianite is formed under sand dunes by the leaching out of calcareous material from the upper layers of sand, forming calcareous sandstone at dopth. Where subsequent movement of the surface sand exposes the rock, the surface may develop into a hard cap rock or secondary calcite.
- 1.5.2 In lower lying situations, horizontally layered calcareous rock occurs, apparently formed under lake or lagoon conditions.
- 1.5.3 Throughout the area, the soil is send of marine origin. Two separate soil systems are recognised (McArthur and Settenny 1960).
- 1.5.4 The Quindalup Dune Soil System consists of recently formed sand dunes extending inland for 1 to 2 km from the beach. These dunes are rich in calcareous material, which may be observed in some areas near the coast as small concretions or nodules apparently round roots. These dunes are subject to movement and blowouts are frequent, particularly between the sea and Lake Preston. Further inland the dunes are older and stabilised.
- 1.5.5 The Spearwood Dune Soil System, in particular the Cottesloe Soil Association, occurs inland from the Quindalup System, and it is under the Cottesloe Sands that the limestone (aeolianite) occurs. The send may be somewhat leached at the surface but is creamy yellow to raddish brown lower down. The largest trees in the area, Tuart <u>Eucalyptus</u>

 comphacephala DC. occur particularly on the Cottesloe sends of the Spearwood System. This system has been

- 1.5.5 Cont.
 cverlaid in parts by the dunes of the Quindalup
 System.
- 1.5.6 In and around the lakes there is clay, in addition to calcareous rock and gravel, and in some places, deposits of shell.
- 1.5.7 The rock appearing on the beach at Cape Bouvard, and forming small reefs close to the beach, is travertine of calcareous origin.

1.6 Climate

- 1.6.1 The rainfall of the area occurs mainly in winter, averaging about 880 mm.
- 1.6.2 Daytime temperatures are warm to hot in summer, frequently reaching maximum about 25° and 35°C and occasionally between 35° and 40°C. Winters are cool to mild.
- 1.6.3 The best conditions for growth occur at the beginning of the winter rains while there is still sufficient warmth, and again in the early spring.
- 1.6.4 Winds are predominantly southerly, but are influenced by the pattern of high and low pressure systems. In summer the high pressure systems pass to the south giving an easterly air flow. This may be reinforced near the coast by land breeze conditions in the early merning, sometimes reaching near gale strength. In the early afternoon south westerly see breezes occur after a midday calm. The see breezes may be frosh to strong. The development of a trough down the coast brings winds from the north east with rising temperatures until the trough passes inland, when the wind reverts to the south or south east.
- 1.6.5 In winter the high pressure systems occur to the north, and low pressure systems with a series of fronts pass to the south bringing fairly frequent strong to gale force winds which move from north west to west and then to south west. These westerly winds, which occur occasionally as a full gale, and rarely stronger, can cause damage to trees and movement of the sand dunes.

1.7 Vegetation Formations and Types

- 1.7.1 Tuart <u>Eucalyptus gomphorephala</u> DC. Woodland occurs in the eastern parts of the park, particularly on the low sandy ridges of the Spearwood system between the depressions occupied by the lakes and swamps. It also occurs in a narrow strip to the west of Lake Preston and to the west of the northern extension of the Lake Clifton depression. Understorey trees consist of <u>Banksia grandis</u>

 Willd., <u>B. attenuata R.Br., Agonis flexuosa</u> (Spreng.)

 Schau. and <u>Casuarina frazerana Miq. Common shrubs</u>

 are <u>Jacksonia furcellata</u> (Bonpl.) DC. and <u>Acacia</u>
 saligna Wendl.
- 1.7.2 Between the Lakes Clifton and Preston on the deeper sands there are local occurrences of Tuart, Jarrah

 <u>E. marginata</u> Sm. and Marri <u>E. calophylla</u> R.Br.

 Woodland.
- 1.7.3 Paperbark <u>Melaleuca cuticularis</u> Labill. Low Closed Forest and Low Open Forest occur around the edges of all the lakes. <u>Melaleuca rhaphiophylla</u> Schau. occurs occasionally in a belt further from the edge of the water, particularly around Lake Clifton.
- 1.7.4 A small stand of Rottnest Tea Tree Melaleuca

 lanceolata Otto. occurs on a rocky island north of
 the causeway over Lake Preston. It is surrounded by
 a fringe of small M. outicularis.
- 1.7.5 <u>Banksia</u> Low Woodland and Low Open Woodland occur at the edges of the Tuart Woodland and on the sand ridges in the northern extension of the Lake Clifton depression.

- 1.7.6 Paperbark <u>Melaleuca preissiana</u> Schau. Low Woodland and Low Open Woodland occur in the southern extension of the Lake Clifton depression, subject to seasonal flooding. In the low woodland areas, <u>Banksia</u> littoralis R.Br. occurs.
- 1.7.7 There are local occurences of Closed Scrub particularly at the northern and southern ends of Lake Preston, in which <u>Acacia saligna</u> (Labill.) Wendl. predominates. To the north east of Lake Clifton, parallel with the lake, there is a belt of Closed Scrub of <u>A. saligna</u>, <u>Melaleuca huegelii</u> Endl. and <u>Xanthorrhoea preissii</u> Endl
- 1.7.8 Acacia cuneata Benth. Open Heath occurs on limestone hills with outcropping secondary calcite lying to the west of Lake Clifton and the Martin Tank chain of Lakes. An isolated limestone hill with this vegetation occurs south of White Hill in the Caps Bouvard area. Dryandra sessilis (Knight) Domin and Hakea trifurcata R.Br. form a higher and denser open heath or even closed scrub round on the lower slopes of the limestone hills. There may also be dense stands of Eucalyptus decipiens Endl. or E. foecunca Schau. in low shrub form.
- 1.7.9 Sand Dune Open Heath in which Melaleuca acerssa
 Schau. and Acacia lasiocarpa Benth. predominate
 occurs on the consolidated coastal dunes. Acacia
 rostellifera Benth. is the dominant tall shrub
 in the more sheltered areas. On the unconsolidated
 dunes, Olearia exillaris (DC.) Benth. and Scaevola
 crassifelia Labill. are characteristic shrubs forming dense stands.

1.8 Animal Life

- 1.8.1 Grey kangaroos, emus and brush occur in the Park and are seen frequently.
- 1.8.2 The bird life is various and numerous. One observer recorded 100 species in two weeks. On Salt Lake, 366 birds of 11 species were counted while on Lake Clifton about 1 370 birds of 16 species were counted including 265 Black Swans.
- 1.8.3 In 1930 Serventy listed 76 species of birds to which

 Jenkins (1971) added a further 58 species. On a 2

 mile stretch of Lake Clifton under regular observation

 Jenkins estimated there to be more than 1 000 each

 of Coots and Musk Ducks, over 500 Black Swans, over

 200 Hoary-headed Grebes, more than 100 each of Black

 Ducks and Grey Teals, and over 50 each of Mountain

 Ducks and Crested Grebes.

1.9 Rights and Priviloges

- 1.9.1 Rights of way exist over roads through the Park.

 The most important of these is Preston Beach Road

 No. 228 leading from the Old Coast Road, alongside

 Locations 4471 and 4879 (Reserve A.22057) and through

 A.11710 to the eastern side of Lake Preston and

 thence across a causeway (11167) over Lake Preston.

 This road carries traffic to the Preston Beach

 settlements and developments in Locations 1321 and

 1280.
- 1.9.2 From the eastern end of the Lake Preston causeway,

 Road No. 1695 runs in a northerly direction through
 the Park serving the properties at the northern and
 of the Lake. The road becomes No. 492 as it re-enters
 the Park before forking. Road No. 13736 leads to
 Location 1535 where it ends. The other fork becomes
 Road No. 228 again but ends with a firebreak leading
 to the north end of Martin Tank. The rest of Road
 No. 228 is non-existent.
- 1.9.3 Road No. 7005 leads west off the Old Coast Road across the Park (Lecation 2731) and along the eouthern boundary of A.22057 but is unmade and is used only as a firebreak.
- 1.9.4 Running from the Old Coast Road across A.12189 to near White Hill, Cape Bouvard, is Road No. 13427.

 It provides access to Location 742.
- 1.9.5 An un-numbered road crosses Reserve 21271 leading to Tims Thicket in Reserve 24198.
- 1.9.6 The right to <u>quarry limestone</u> on the eastern shore of Lake Preston south of the causeway was granted to D.K. Cable, Mineral Claim 1298H 2 ha (5 acres)

- 1.9.6 Cont.11th February, 1970, expiry 5th February, 1980.
- 1.9.7 The waters of Lake Preston south of a line drawn due east from the dividing boundary between Lots 705 and 806 to the eastern shore of the lake are set aside for water skiing (Harbour & Light Department, Navigable Water Regulations, Government Gazette 6th October, 1967 p.2613).
- 1.9.8 The route of the State Electricity Commission

 power line was approved to follow the Preston Beach
 Road and cross the Lake Preston by way of the
 causeway. (20/1 fol.403 24-7-1974).
- 1.9.9 Apiary site No. 3045 on 12189 close to the Old Coast Road and opposite Location 39 has been granted to Mr. Netherway of Rivervale (file 20/52 fol.23, 20-11-1973).

DESCRIPTION OF VEGETATION

2.

2.1 Composition and Condition

- 2.1.1 A reconnaissance survey of the vegetation around the Yalgorup National Park was carried out by Dr. F.G. Smith in November, 1972.
- 2.1.2 A more detailed survey was carried out by Susan Paust and B.R. Maslin of the Western Australian Herbarium some months later.
- 2.1.3 The vegetation map has been compiled based on these and subsequent surveys by the athor in April, 1974.
- 2.1.4 In general the woodland, low closed forest, low open forest and low woodland areas are in good condition, though some of the woodland areas have been subjected to hot understorey fires in the last two or three years.
- 2.1.5 Where hot fires have entered the Paperbark low closed and low open forest the trees have been killed.
- 2.1.6 Acacia and Dryandra open heath to closed scrub on limestone hills has been subject to recent burning and is mostly in an early seral stage. No mature communities remain.
- 2.1.7 The sand dune open heath has also been burnt recently west of Lake Clifton (coastal areas of 11710).

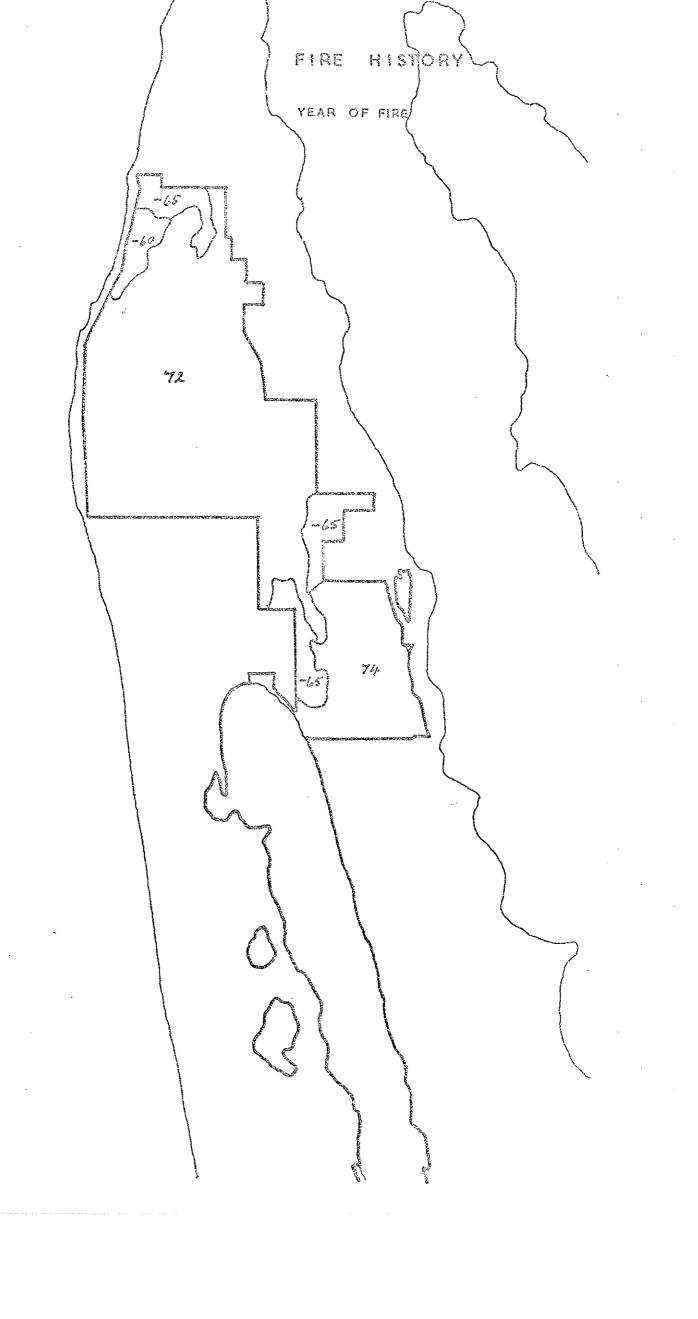
2.2 Injuries to which the Vegetation is Liable

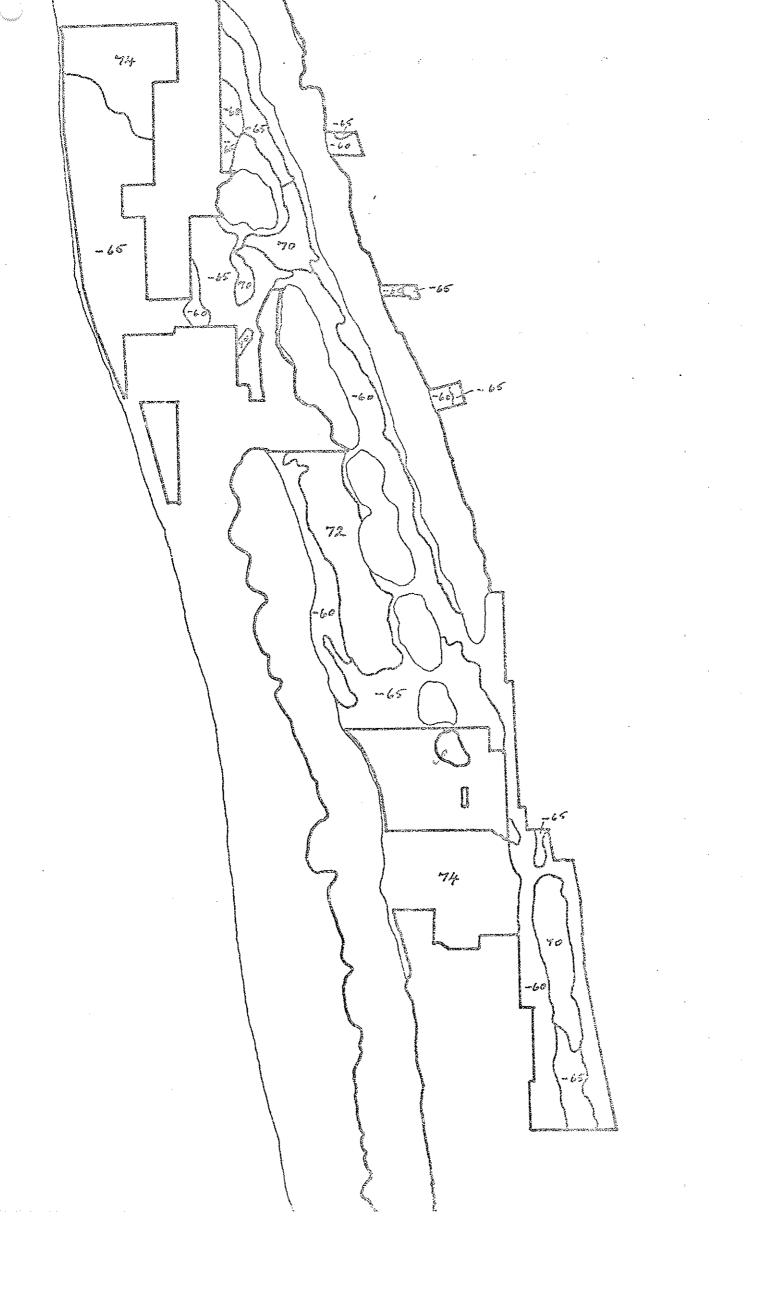
- 2.2.1 The most apparent danger, particularly to the open heath and scrub vegatation on limestone and on sand dunas, is too frequent burning. The current Fire Control Working Plan (Forests Dapartment 10th July, 1969 File 20/4 fol.26) advecates the burning of these areas every 3 years. Observation by the author of frequent burning of these vegetation types further north, between Yanchep and Lancelin as well as at Rottnest and north of Cape Bouverd, indicates that it results in the elimination of many plant species.
- 2.2.2 Very hot fires entering Paperbark forests surrounding the lakes kill the trees. The time taken for regeneration to re-establish this type of forest is not known.
- 2.2.3 Too frequent burning in woodland as well as in heath types lays the plant associations open to invasion by grasses, lupins and other weeds, which themselves then produce an annual fire hazard and a permanent degradation of the vegetation.
- 2.2.4 Tuart <u>Eucalyptus gomphocephala</u> DC. is subject to attach by a weevil <u>Haplonyx</u> <u>tibialis</u> which bores into the flower buds.
- 2.2.5 Regeneration of Tuart is not apparent. This could be due to the bud damage mentioned in 2.2.4, to climatic change, or to too frequent burning of the understorey.
- 2.2.6 Jarrah root rot or dieback disease <u>Phytophthora</u>

 <u>cinnamomi</u> has been reported to be present in the

 area of the park adjacent to the Old Coast Road.
 .../19..

- 2.2.7 Cross country vehicles on open heath and on the coastal dunes kill the plants in their tracks and quite light use causes permanent wheel tracks devoid of vegetation.
- 2.2.8 On the fore dunes and primary dunes, vehicles readily remove the sparse vegetation and give rise to or accelerate sand blowouts which cause the dunes to move inland, overwhelming the heath on the stabilised dunes and the trees and shrubs in the lee of the dunes.





2.3 Fire History

- 2.3.1 The history of fires as shown in the Fire
 History plan has been pieced together from
 reports on file 20/4, interpretation of aerial
 photography of January 1965 and December 1972 January 1973, and personal observations.
- 2.3.2 The first report of a fire in the Park was in respect of two areas between Martin Tank and Salt Lake, 6th 8th April 1970. The boundaries are taken from the December 1972 January 1973 photography.
- 2.3.3 A very extensive fire occurred in the Cape

 Bouvard Block, apparently during early 1972.

 The boundaries show clearly in the aerial

 photography. This could have been the fire

 reported by the Forests Department as occurring

 between 4th and 8th March 1972.
- 2.3.4 Another fire was reported as having occurred between the Martin Tank chain of lakes and Preston Beach Road on 1st April 1972. This appeared to have been started by a person on a horse from the firebreaks on the northern edge of the area. The boundaries appear clearly on the aerial photographs.
- 2.3.5 A substantial area of Tuart woodland and some open heath on limestone was reported burnt in the southern part of the Cape Bouvard block. The fire appeared to have originated at the side of the Old Coast Road. The fire occurred between 25th 28th February 1974.

- 2.3.6 Approximately 400 acros of secondary dune open heath were reported as having been burnt deliberately in the north-west of the Yalgorup block, on 2nd April 1974.
- 2.3.7 Also on 2nd April 1974 a control burn was carried out on the limestone hill in the South Preston Block. This extended from the firebreek to the east of the hill to the shore of Lake Preston, consuming some areas of Paperbark low closed forest.
- 2.3.8 On 19th to 21st December 1974 an extensive fire swapt through Reserves 21271 and 24195 (Cape Bouvard Block) after starting in Location 897 near Harvey Estuary.

DESCRIPTION OF ANIMAL LIFE

3.1 Population and Migration

- 3.1.1 Studies of the bird life have been made by

 D.L. Serventy, "A glimpse of the Bird Life between

 Mandurah and Bunbury W.A." The Emu 30: 33-38 (1930)

 and "The Birds of the Swan River District, W.A."

 The Emu 47: 241-286 (1948).
- 3.1.2 T.L. Riggert of the Department of Fisheries and Fauna of W.A. reported on "A Study of the Wetlands of the Swan Coastal Plain." (1966).
- 3.1.3 The area has been observed over 30 years by C.F.H. Jenkins and some of his sightings of birds are recorded in "Pressure on the waterfront with special reference to the Mandurah Murray Region".

 The Western Australian Naturalist 12 (2): 28–31 (1971), which forms Appendix 2.
- 3.1.4 The bird population on the lakes reaches its peak in mid and late summer as the inland waters dry up and the swans, ducks and other aquatic species migrate to the permanent lakes and estuaries of the Swan Constal Plain.
- 3.1.5 With the enset of the winter rains, part of the swan and duck population returns to inland waters, but many aduatic birds remain to breed among the rushes and sedges of the lake shore.
- 3.1.6 Mountain Ducks were observed to moult on Lake
 Preston during November 1974. During the moult
 period the flightless ducks massed in extensive
 rafts on the surface of the lake.

3.2 Dangers to Animal Life

- 3.2.1 The greatest danger to animal life is in the destruction of its breeding habitat and food supply by indescriminate burning of the vegetation.
- 3.2.2 Poaching occurs from time to time but appears to be under control since frequent ranger patrols were instituted.
- 3.2.3 Some casualties occur to kangaroos and emus which are hit by fast moving motor vehicles on the Old Coast Road and the Preston Beach Road.
- 3.2.4 Dogs and cats brought by visitors to the area, or dumped, are a hazard to birds and small mammals.
- 3.2.5 In 1968 it was reported by F.A. Edmondson of Mandurah that Lake Clifton had been almost denuded of all bird life by power boats racing up and down the lake. This has been rectified since the Lake became a National Park.
- 3.2.6 The effluents from sewerage or septic systems and seepage into the water table of fertilizers present a hazard to freshwater supplies and to the chemical and biotic characteristics of the lakes. High density tourist or residential developments, and intensive agriculture in adjoining areas are the principal causes for concern.

4. STAFF AND LABOUR

4.1 Composition and Pay

- 4.1.1 The staff consists of one Ranger who looks after both Yalgorup National Park and Serpentine National Park, and two Honorary Rangers.
- 4.1.2 Ranger Ron Chandler (January, 1973) Grade 2
 Honorary Rangers L. Carrol (1969)

Capt. L. Vickridge (1972)

Prior to the appointment of a permanent Ranger to the Park, a Mobile Ranger Mr. N. Walmsley commenced patrols in February, 1969. He was subsequently relieved by "obile Ranger Mr. C.W. Pearson at the beginning of 1972.

4.1.3 The assistance of staff of the Forests Department can be obtained for fire control.

4.2 Housing and Allowances

- 4.2.1 A Bunning's "Menzies" type house was erected at
 155 Churchill Avenue, Mandurah for the accommodation
 of the Ranger, January 1973.
- 4.2.2 A Simpson steel structure Garage, 25' x 24' x 9' was supplied on the above site February, 1973.
- 4.2.3 Electricity, water supply and telephone are laid on to the house.
- 4.2.4 The Ranger's telephone number is Mandurah 35-2564 S.T.D. Code 895.

5. PUBLIC USE OF THE PARK

5.1 Current use

5.1.1 No figures are available relating to public use of Yalgorup National Park.

5.2 Areas of attraction

- the west of A12189, have attracted beach buggies.

 These have been traversing the primary dunes at positions both north and south of the Park. The public road has a small parking area at the western end with a view of White Hill and of the sea over the dunes. Tracks go forward to the top of the primary dunes from which there are further lookout points. White Hill is the highest point in the area but is not stable. In the lee of the secondary dunes is a belt of Tuart Woodland which could attract picnickers. A track connects the west end of the public road with the Camping and Rocreation Reserve 24198.
- 5.2.2 Former Estuarine Area: Large numbers of kangaroos can be seen grazing on the open heath and low woodland of the former estuarine area in A12189, Reserve 21271 Location 1014 and Reserve 24198. The best vantage points are Tim's Thicket, a limestone hill on Reserve 21271, and the eastern rim of the secondary coastal dunes in A.12189. A closer look at the animals can be had at Dad's Lookout at the southern end of Reserve 24198.
- Lake Preston: Aquatic birds can be observed on Lake Preston but in limited numbers. The 28 km long lake, fringed with Paperbarks of varying height and density and backed by Tuart woodland, presents a scenic attraction. The waters of the lake have been in demand for rowing, family and compotitive, family dinghy sailing, speed boat trials and water ski-ing. At the south end there is a gazetted ski-ing area.

- 5.2.3 Cont.
 - The hard dry bottom of the lake at the north end has been used as a dirt track by motor cyclists.
- 5.2.4 <u>Lake Clifton</u>: Aquatic birds can be seen in great numbers, particularly in summer, on the relatively fresh waters of this lake. It has scenie attractions similar to Lake Preston.
- 5.2.5 <u>Martin Tank Chain</u>: Some aquatic birds may be seen on these smaller lakes. They have considerable scenic attractiveness.
- 5.2.6 <u>Tuart Woodland</u>: This pleasant woodland with an understorey of smaller trees is attractive for picnicking, walking and riding.
- 5.2.7 Limestone Hills: When they have not been recently burnt over, the shrubs present a magnificent display of flowers in late winter and spring. Even after burning, several species of orchids are to be found. Excellent views of Lake Preston, the Martin Tank Chain of Lakes and of the coastal dunes are obtainable from these hills.
- 5.2.8 Secondary Coastal Dunss: In winter and spring the small shrubs of the stabilized dunes present a complex mixture of flowers. Views of the ocean and of the coastal plain and lakes are obtainable and the area presents wide horizons and an atmosphere of fresh air and freedom. Excellent for welking and riding, but quickly damaged by vehicles.

- 5.2.9 Paperbark Forests: The low closed forests of Paperbarks fringing the lakes, with an understorey of sedges, reeds and samphire, are very beautiful. A very fine belt extends southwards from the start of Preston Beach Road and parallel to the Old Coast Road.
- 5.2.10 Rottnest Tea Tree Island: A small island in
 Lake Preston, north of the causeway, contains a
 unique and charming stand of Rottnest Tea Trees.
- 5.2.11 Tim's Thicket: The thickest itself, consisting of Tuart Woodland, is used for casual camping. Between the thicket and the sea is a large area of primary sand dunes. These dunes have moved during the past ten years since the area was opened up by the construction of a road to and along the top of the dune to provide access to a fishing spot. Represtion vehicles have been active on the dunes and on the beach. This area is wholly within Reserve 24198.

5.3 Communications, roads and paths

- 5.3.1 The Old Coast Road is a main highway running past the Park linking Mandurah with Australind and Bunbury. Other roads cross the Coastal Plain to Pinjarra, Coolup, Waroona and Harvey.
- 5.3.2 Two public roads cross the park. One, Road No.

 13427, from the Old Coast Road south of Dawesville,
 goes to near the coast south of White Hill in
 the Cape Bouvard Section of the Park. The other,
 Road No. 228, leaves the Old Coast Road south of
 the Lake Clifton Road House and leads to Preston
 Beach by way of the Lake Preston Causeway.
- 5.3.3 A third road leaves the Old Coast Road at the Harvey Diversion Drain and passes south of Lake Preston to Myalup Beach. A track, Reading Road (Road No. 233), leads off north from this road and follows the western shores of Lake Preston to Preston Beach Road.
- 5.3.4 Another road of access to the Park is from the Old Coast Road between Locations 721 and 723 to the shore of Lake Clifton, with a track leading north along the shore to the southern end of the Cape Bouvard section of the Park. South of the Preston Beach Road, a track, Road No. 7005, goes from the Old Coast Road across the Park through Location 2731 to Location 4079, but currently is used only as a firebreak.
- 5.3.5 North of the present area of the Cape Bouvard section of the Park, a road crosses Reserve 21271 leading to Tim's Thicket, Reserve 24198 (Camping and Recreation). A track runs south from the end of this road at the foot of the Junes, past

- 31 -

5.3.5 Cont.

the area used for camping and enters the National Park to continue south through the stabilized sand dunes, east of White Hill, to join the western end of Road No. 13427.

- 5.3.6 From the eastern end of the Lake Preston causeway Road No. 1695 runs north from Preston Beach Road becoming Road No. 492 before forking, one branch, Road No. 13736, going to Location No. 1535, and the other, Road No. 228, becomes a firebreak.
- 5.3.7 In addition to the above roads and tracks, firebreaks exist in accordance with the Fire Control Plan.
- 5.3.8 There are no recognized footpaths or bridle tracks at present.
- 5.3.9 Location 1535 contains a landing strip and tracks go from this area into the park, both westward through the sand dunes to the coast, and eastwards to Selt Lake.
- 5.3.10 Another landing strip exists near the eastern shore of Lake Clifton in Location 723.
- 5.3.11 A track at the southern end of Location 2636
 east of Lake Preston has been modified to form
 a landing strip.

5.4 Accommodation and Camping

- 5.4.1 No facilities for accommodation or for camping are provided in the Park.
- 5.4.2 The Town of Mandurah has hotels, a motel, camping and caravan park, and further caravan parks exist on the shores of Peol Inlet, on the Old Coast Road.
- 5.4.3 Holiday homes, and permanent homes, exist immediately north of the Park at Dawesville, Melross and Florida, and along the Harvey Estuary Shore to the east of the Cape Bouvard section where there is also a caravan park.
- 5.4.4 Holiday homes exist at Preston Seach and further development, the Interwest estate, is proceeding. This will include a hotel.
- 5.4.5 Holiday homes occur at Myalup and there is a caravan park and provision for camping.
- 5.4.6 Along the Old Coast Road near Lake Clifton, thore is a road house serving meals and fuel, and a tavern which also supplies meals and fuel.

5.5 Amenities, Parking Areas, Lookouts and Picnic Areas

- 5.5.1 Two picnic areas are being used, both off the Preston Seach Road. The first is among Tuarts on the southern side of the road at the turn off from the Old Coast Road. The second picnic area is among Paperbarks on the shore of Lake Preston, south of the eastern end of the *auseway.
- 5.5.2 There is evidence of use of a lookout parking area south of White Hill.
- 5.5.3 Fishermen park on the sand dunes in the Tim's Thicket area.

5.6 Information, Resource Interpretation

5.5.1 There are no information displays in the park and no brochure has been prepared.

PAST MANAGEMENT

6.

6.1 <u>History of the Park</u>

- 6.1.1 The Park, which is still in the process of formation, owes its origin to the report on National Parks and Nature Reserves in Western Australia by the W.A. Sub-Committee of the Australian Academy of Science Committee on National Parks, 1965.
- 5.1.2 Since 1946 the Faune Protection Advisory Committee had discussed proposals that the area in the vicinity of Lakes Preston and Clifton become a National Park. In 1955 the Committee recommended that the area be set aside for this purpose and that it should consist of a number of dismonnected groups of reserves and Crown land.
- 6.1.3 This recommendation was restated in 1957 as
 - (1) That the National Park between Mandurah and Harvey consists of a series of disconne∙ted parcels of land including --
 - (a) all the existing reserves extending from and including Reserve 2851 in the north to Reserve 23597 in the south;
 - (b) existing reserves around Pecl Inlet;
 - (c) existing reserves on the eastern shows of the Harvey Estuary;
 - (d) all the unalienated lakes in the general area;
 - (e) all the unalianated land south of Location 837 to the Harvey Diversion.
 - (2) That no freehold land be resumed.
 - (3) That the Committee velcame gifts of land

 (or funds to purthase land) from public—

 spirited persons, but otherwise only existing

 .../35...

6.1.3 Cont.

- (3) Cont.
 reserves and unalienated Crown Land be included.
- (4) That the purpose of the Park should include preservation of the habitat, conservation of fauna, and public recreation, with facilities for camping, fishing, canecing, duck shooting and other open-air pastimes as determined.
- (5) That the Park be zoned to allow the provision of facilities for recreation in some sections, while others should be kept in a primitive or semi-primitive state.
- (6) That the Park be administered by the National Parks Board of Westorn Australia and the Fauna Protection Advisory Committee working in close collaboration.
- 5.1.4 There has been considerable local opposition to the scheme for a National Park in this area and the recommendations of the Fauna Protection Advisory Committee take account of this.
- 6.1.5 The first reserve in the area was proclaimed a National Park under the control and management of the National Parks Board in January 1968, and the Park has been added to from time to time (See part I 1.1).

6.2.1 Management so far has consisted in policing

6.2 Past Systems of Management and Their Results

- the area to enforce the National Parks Board's By-laws:—
 stopping shooting of birds and animals, stopping the use of motor boats and water skiing other than in the prescribed area, stopping the use of beech buggies and motor bicycles, dealing with straying cattle, having unauthorised buildings and fences removed, litter collection and extinguishing fires.
- 6.2.2 At the request of the National Parks Board, the Forests Department prepared a Fire Control Working Plan, July 1969 (file 20/4 folio 26~30). This contained proposals for fire lines and burning frequencies in nominated areas. The frequency of burning varied from every 3 years in heathland to 5-7 years in woodlands.
- 6.2.3 The Gues Fires Board commented on the Forest Department proposals (file 20/4 folio 37-39) recommending some improvements to fire lines and autumn burning instead of spring burning.
- 6.2.4 The fire lines were constructed in Movember 1969, and graded again in April 1971. Firebreaks were also constructed in the Cape Souvard section of the Park, 1973.

6.3 Special Works of Improvement Undertaken

- 6.3.1 Two picnic areas with barbecues and tables have been established along the Preston Beach Read. (See 5.5.1).
- 6.3.2 A timber name board has been erected at the junction of Preston Beach Road with the Old Coast Road, and regulative notices have been crected where necessary.
- 6.3.3 A system of firebreaks has been constructed in accordance with Forests Department and Bush Fires Board recommendations.
- 6.3.4 A house and garage have been provided for the Ranger in Mandurah, and he has been equipped with a vehicle, boat and trailer.

6.4 Rovenue and Expenditure

6.4.1 No revenue has been collected.

6.4.2 Expanditure →

Year		Ş	Š	\$
1969/70	Maintenance Improvements Improvements	Signs Firebreaks <u>1</u>	26 157 166	1 349
1970/71	Maintenance Improvements	Firebreaks _	33 140	173
1971/72	Maintenance Improvements	Firebreaks _	1 42 1 36	278
1972/73	Maintenance Improvements	Vehicle 3 Boat and Trailer Garage & Workshop 1 Equipment Water Supply Chain Saw Firebreaks	927 927 817 301	26 670
1973/74	Improvements ing Improvements Wages Maintenance	g Equipment Firebreaks 1		10 203

PART II

FUTURE MANAGEMENT DISCUSSED AND PRESCRIBED

BASIS OF PROPOSALS

7.1 Objects of Management

- 7.1.1 National Parks represent the finest examples of our country's lands and waters, those natural features of such scenic, scientific, educational and inspirational importance that they merit commitment to Government care. They are established to preserve for all time, scenic beauty, wilderness, native wildlife, indigenous plant life and areas of scientific importance and to provide for the appreciation and enjoyment by the people of these things in such a manner and by such means as will leave them unimpaired for the future.
- The Policy of the National Parks Board of
 Western Australia, in confirmity with these
 concepts has been declared to be —
 "To so administer the reserves and other
 lands under its •ont•ol as to ensure the
 preservation of their natural beauty, the
 conservation of native flora and fauna, and
 the protection of meclogical, physiographical
 and other features of special interest; and
 to develop and improve certain preas for the
 purpose of promoting the use and enjoyment
 of them by the public."
- 7.1.3 The management of National Parks has to reconcile the conservation of use by the people with the conservation of the natural qualities for which the park was reserved.

- 7.1.4 The management of the natural resources of National Parks consists of :-
 - (a) Safeguarding scenary, vegetation, wildlife, and natural features against damage or destruction;
 - (b) The application of ecological management techniques to neutralise the unnatural influences of men, thus permitting the natural environment to be maintained essentially by nature;
 - (c) Planning for the appropriate allocation of lands to various purposes in the parks and for the development of facilities for park management and for the appreciation and enjoyment by the public of the natural resources of the parks.

7.2 Special Factors offucting Management

- 7.2.1 Yelgarum National Perk prosents sarious difficulties in the management of its natural resources because of the disconnected nature of its land areas and the length of its boundaries.
- 7.2.2 These long boundaries and the narrow width of park areas make the park most vulnerable to damaging affects if adjoining land is used in a manner incompatible with the primary purpose for which the park was established.
- 7.2.3 Fully protected or wilderness areas are impracticable to maintain unless there are natural or physical barriers to access by vehicles.
- 7.2.4 The circumstances at Yalgarup are such that the protection of wilderness and natural areas will be dependent upon neighbouring landowners maintaining their fances to prevent the straying of stock into the park and to prevent the build up of abnormal wildlife populations through grazing on improved pasture.
- 7 2.5 The co-operation of neighbours will also be required in preventing the burning of park areas contrary to the working plan prescriptions.
- 7.2.6 The unique features of Yelghrup are :-
 - (a) the sand dune systems of various epochs of mealegically recent time.
 - (b) The rock formations which owe their origin to the former presence of colcaroous sand dumes.

7.2.6. Cont.

- (c) The series of low ridges formed by the sea retreating from a former estuary and patterned by the presence of former islands.
- (d) The complete range of vegetation systems associated with the sand dune systems and related rock formations.
- (e) A relic of an even earlier vegetation system on an island in a lake.
- (f) A series of parallel lakes of varying salinity.
- (g) An extensive bird population seasonally reinforced by a migratory population of acuatic birdlife.
- (h) A population of terrestrial animals typical of the area.
- (i) A range of scenic values from ocean, constal, lakeland, silven and heathland of great delicacy and extensiveness.
- 7.2.7 All these features are already accessible to the public by motor vehicle and the whole park area can be reached by walking without the need for evernight comping within the park.
- 7.2.8 All types of accommodation for visitors exist class by ar within easy reach of the park.
- 7.2.9 There are no familities to assist visitors to appropriate, understand and thereby fully enjoy the natural features of the park.

7.3 Methods of Treatment

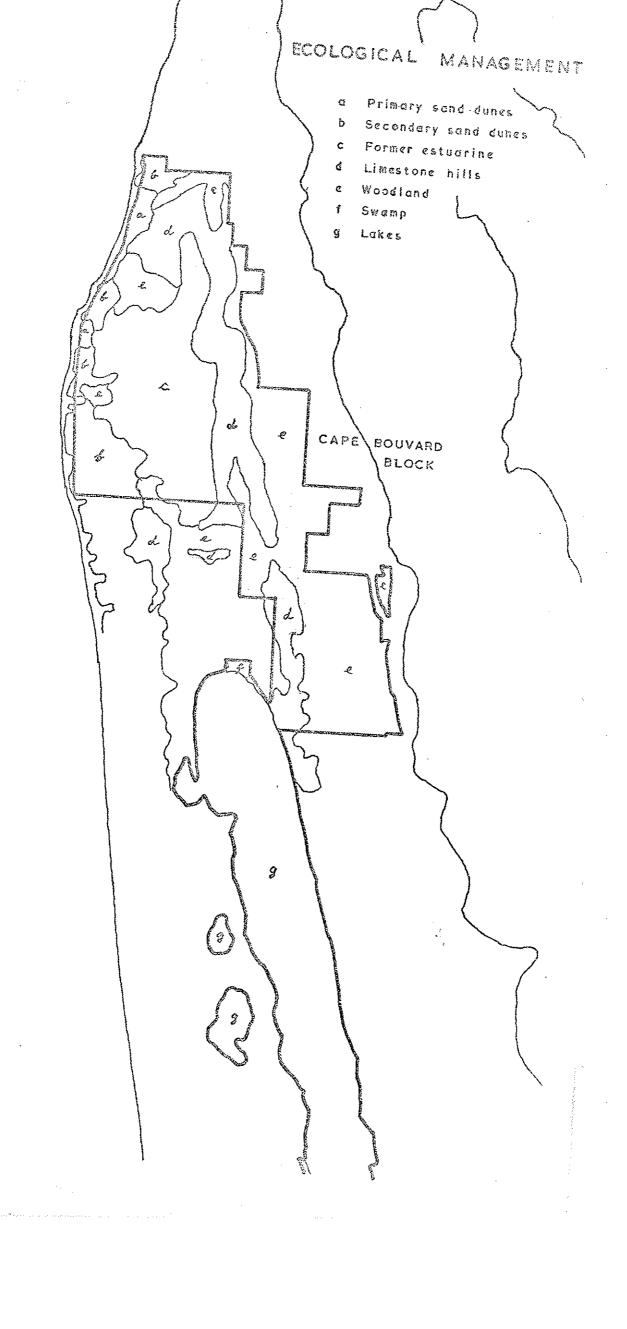
- 7.3.1 Management of the park will be considered from two separate aspects:
 - (a) Management of the ecological systems;
 - (b) Zoning, provision of facilities and control of public use.
- 7.3.2 In each ecological system, every effort will be made to establish a full range of the succession of plant communities from the immediate post fire condition to the climax community, thereby ensuring that all plant species are present in one part or other of the pork, and that there are habitats for the full range of animal life.
- 7.3.3 The importance of the lakes for aquetic bird life is such that it is important that as much of the Lake system as possible be maintained as a sanctuary for wildlife.
- 7.3.4 Because only one tenth of the shareline of Lake
 Preston is backed by National Park land, the
 rest being in private ownership, the maintenance of
 this lake as a wildlife senctuary will require
 extra vigilence.
- 7.3.5 The Hebour and Light Department has been approxemed for the purpose of having the gazetted skiing area at the south end of Lake Preston cancelled, but skiing will be allowed to continue for the present in this area under the central of the By-Laws of the National Parks Board.
- 7 3.6 The northern (Cape Bouverd) part of the park forms a natural amphitheatre whose kangaracs and emus may

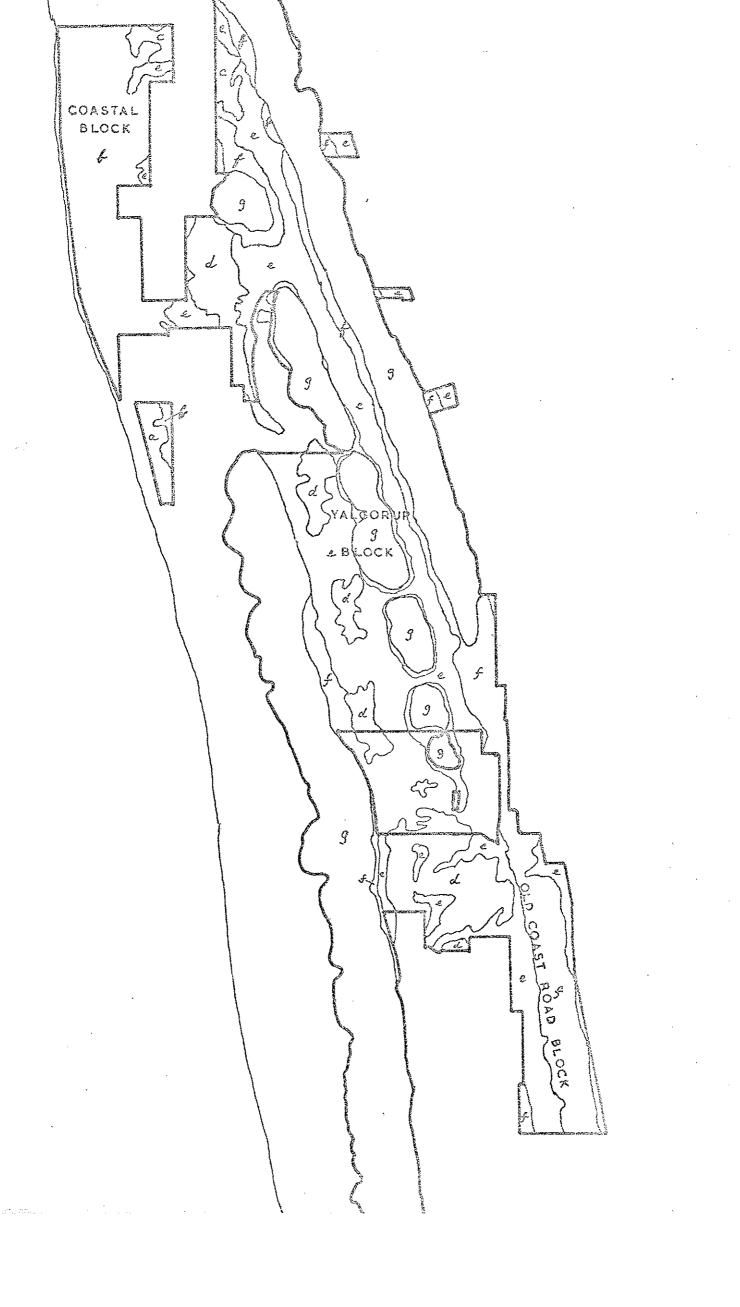
be observed. Its accessibility to the metropolitan area makes it unique in this respect and justifies the making of special prevision for the protection of the animal life and for facilities for the public to observe them under completely natural conditions.

7.3.7 In view of the disconnected nature of the existing areas of park, every effort should be made to add to the eark adjoining areas which must be maintained in their natural condition to prevent loss of park values, and to seek to obtain the intermediate areas between Lake Clifton and the see.

7.4 Period of the Working Plan

- 7.4.1 This plan covers the five year period from 1st July 1975 to 30th June 1980.
- 7.4.2 A revision of this plan should be completed by 31st January 1980.





ECOLOGICAL MANAGEMENT

8.1 <u>Blocks</u>

The land arass of the park lie in the following blocks :-

- (a) Cape Bouvard Block consisting of all park land
 A12189 between the northern and of Lake Clifton
 and Molross Beach, including Reserve 21271
 which is being added to the park, and reserve
 24198 (Tim's Thicket) which is to be considered
 as part of the National Park for management
 purposes. All Cape Bouvard Black lies within
 the Shire of Mandurah;
- (b) Yalgarup Black consisting of all park land adjaining the southern half of Lake Clifton and the Martin Tank Chain of Lakes;
- (c) Coostel Block consisting of park land lying to the west of Selt Lake and separated from it by private property; and
- (d) Old Chast Road Black consisting of park land adjoining the Old Chast Rhad and extending uestwards to Lake Preston, south of Preston Beach Road.

8.2 <u>Ecological Units</u>

- 8.2.1 There are seen to be seven Ecosystem Working Circles as follows:-
 - (a) Primary sand dunes;
 - (b) Secondary send dunes;
 - (c) Former estuarine plain;
 - (d) Limestone hills;
 - (a) Weedland;
 - (f) Swamp; and
 - (a) Lakes.
- 8.2.2 The boundaries of these Working Circles are shown in the Management Plan.
- 8.2.3 The primary sand dune system contains all fora dunes and primary unstabilized sand dunes.
- 8.2.4 The secondary sand dune system contains all dunes fully stabilized by open heath vegetation and includes local stands of closed and open scrub.
- 8.2.5 The firmer estudine plain system rentains that part of the former northern extension of Lake Clifton, covered with open or closed heath, Banksia low weedlend and open weedland and showing evidence in parts of former beach ridges.
- 8.2.6 The limestone hill system contains all hills of limestone capped with secondary calcute and bearing open heath to closed scrub.
- 8.2.7 The woodland system contains all areas of Tuart woodland, Jarrah-Banksia woodland and Banksia low woodland on the Sand ridges.

- 8.2.8 The swamp system contains all areas of Paperbark low closed forest, Paperbark low open forest, low woodland and low open woodland together with associated sadge, samphire and heath lands.
- 8.2.9 The Lakes system consists of Lake Clifton, the Martin Tank chain of lakes and Lake Preston.

8.3 Ecological Management Prescriptions

- 8.3.1 Each Ecosystem Working Circle in each Block should be managed as a segarate unit.
- 8.3.2 The aim of management is to achieve within each Ecosystem Working Circle a mosaic of areas of vegetation of different ages since the last fire.

8.3.3 <u>Cape Bouvard Block</u>

With the exception of small areas of woodland and limestone hills, this block was extensively burnt in or about 1972 in the northern part, and in 1974 in the southern part.

The remaining areas do not appear to have been burnt since before 1965. (See Fire History Plan).

- (1) Approximately one fifth of each area not burnt since before 1965 should be burnt each year.
- (2) Commencing 1977, small patches of climax vagetation in the area burnt about 1972 should be burnt.
- (3) There should be no burning during the period of this plan in the erea burnt 1974.

8.3.4 Yalgorup Block

Areas in this Block were burnt in 1970 and 1972. (See Fire History Plan). The remainder does not appear to have been burnt since before 1965.

- (1) Areas not burnt since before 1965 will be divided into five approximately equal parts.
 One part should be burnt each year.
- (2) Areas burnt in 1970 or subsequently will not be burnt during the period of this plan.

8.3.5 Coastal Block

Two thirds of the secondary sand dunes in the coestal block were burnt prior to 1965.

A fire was reported in 1974 in the northern part but the exact extent of the fire has not been mapped. It is likely that it covered all the area which had not been burnt just prior to 1965.

(1) No burning is to be carried out in the Coastal Block during the period of the plan, other than what may be found to be necessary to form a fire break along its boundary with private property.

8.3.6 Old Coast Road Block

Part of the swamp was burnt between 1965 and 1973.

The limestone hill and adjaining woodlands were burnt in 1974.

The remaining swamp and woodland has not been burnt since before 1965.

- (1) The area burnt 1974 should be protected from fire during the period of this plan.
- (2) The remaining area should be divided into five approximately equal parts, and one part burnt each year.

8.4 Woed Eredication

- 8.4.1 The best advice should be obtained on the eradication of weeds on roadsides and elsewhère.
- 8.4.2 Every effort should be made to eradicate the weeds by the most appropriate method.

8.5 Research - Plant Succession

- 8.5.1 A series of sample plots should be established in each of the following acceystems:

 Secondary sand dune

 Former estuarine

 Limestone hills

 Woodland

 Swamp
- 8.5.2 The plots should include for each ecosystem -
 - (1) The cldest growth or appearant climax community;
 - (2) Areas for which the date of the last fire is known precisely;
 - (3) All plant communities present in the ecosystem.
- 8.5.3 Each sample plot should be examined annually and the following facts recorded:—
 Species,
 Number of plants of each species,
 Haight range and mean for each species,
 Estimated percentage ground cover.
- 8.5.4 Plots should continue to be recorded following fire.

8.6 <u>Ecological Surveys</u>

- 8.6.1 While a fairly comprehensive botanical survey and mapping of vegetation has been carried out, more information is required on the floristic composition of each plant association.
- 8.6.2 For each plant association the following information is required:-

Name of Plant Association

Location

Ecosystem

Habitat

Brisf description of community

Floristic Composition - giving

Botanical Name

Author

Family

Common name (if any)

Frequency (abundant, frequent, occasional,

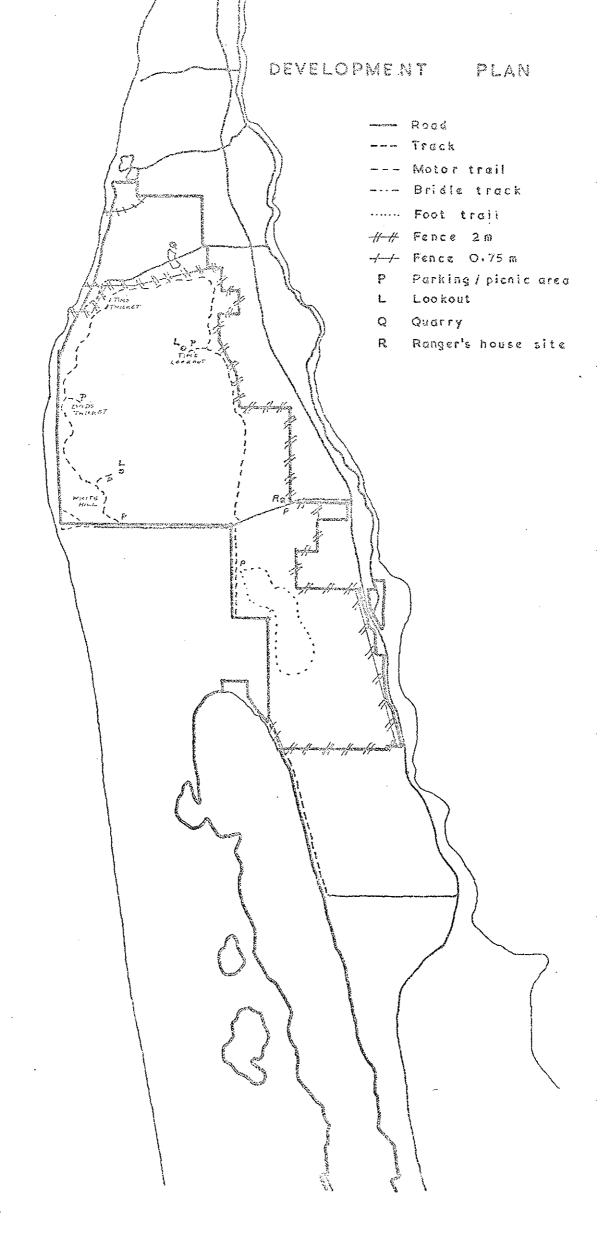
rere or local)

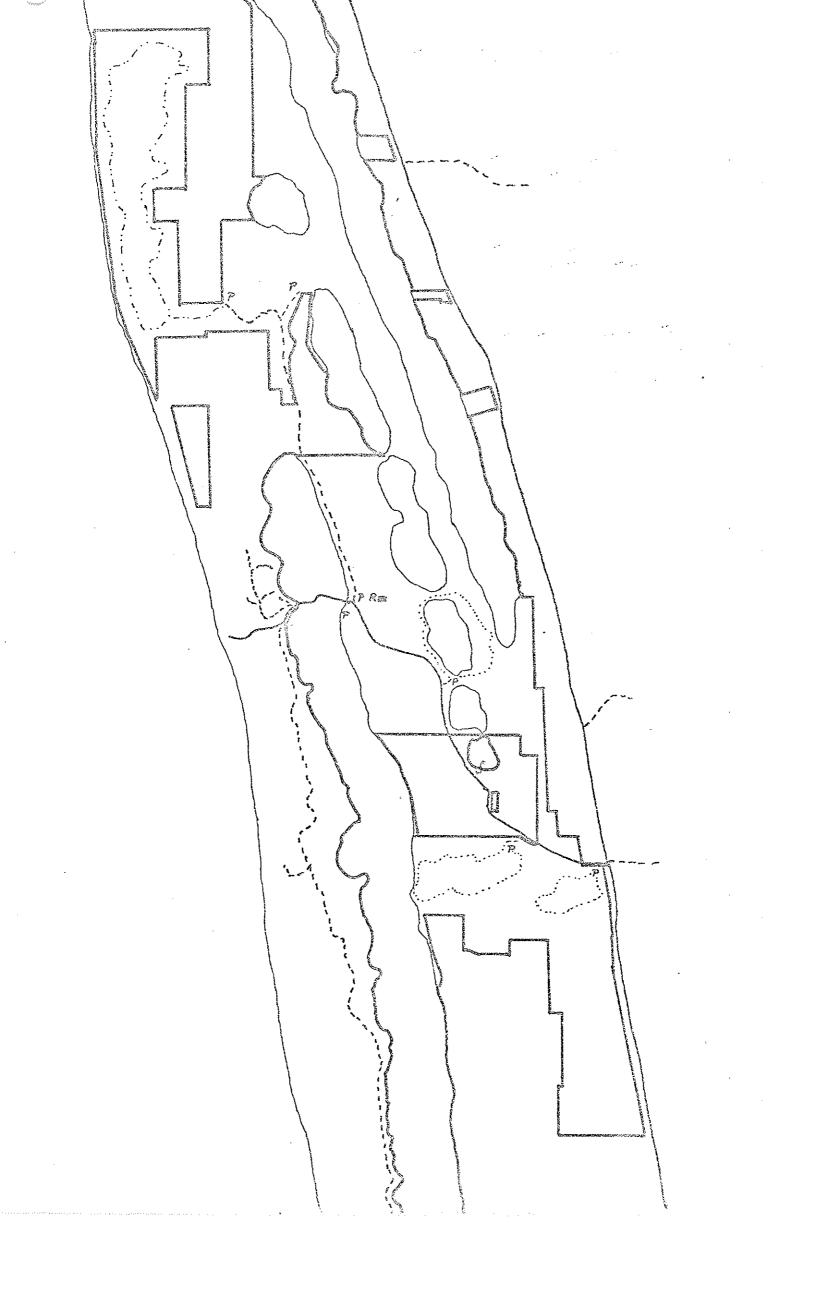
Height (range and mean)

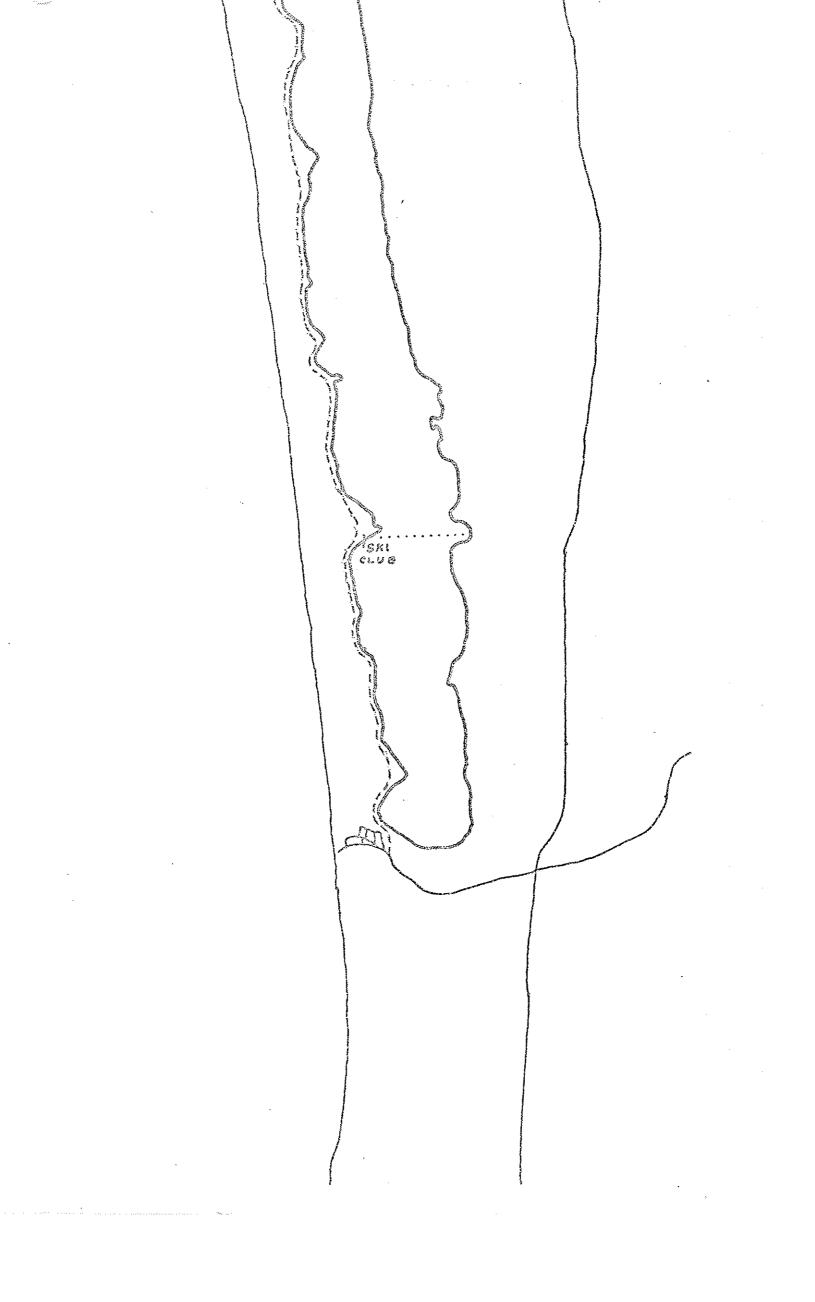
- 8.6.3 A comprehensive survey is required of fauna (Mammals and birds taking priority) with data on the habitat requirements of each species. Migration habits need also to be studied.
- 8.6.4 A survey is required of the physical and chemical properties of the waters of each of the lakes and on how these change during the year under the influence of rainfall, seepage and evaporation.
- 8.6.5 Information is also required on the aquatic life of each of the lakes.

8.7 Fire Control

- 8.7.1 All boundary firebreaks should be maintained as effective firebreaks and access routes for fire fighting teams.
- 8.7.2 Internal firebreaks should be of only a temporary nature, and shall be formed only to isolate an area which is about to be burnt. Natural features and previously burnt areas should be used as far as possible for this purpose.







PUBLIC USE

9.1 Zoning of Uso

- 9.1.1 All that area of the Cape Bouvard Block lying to the south of Tim's Thicket Road to be used in a manner appropriate to a Matural Area of National Park with special emphasis on the observation of animal life.
- 9.1.2 That area of the Cape Bouvard Block lying to the north of Tim's Thicket Road to be available for recreation ourposes, and the quarrying of gravel according to Mandurah Shire and National Park requirements.
- 9.1.3 The recreation area to be available for the use of recreation vahicles between Tim's Thicket Road and a line forming an arc of radius 500 metres from the north west corner of Reserve 24198.
- 9.1.4 All that area of Yalgorup Blook lying to the east of Preston Beach Road and Road No. 1695 including Lake Clifton, Lake Preston and the Martin Tank chain of lokat to be a Wilderness trea with special emphasis on its role as a sanctuary for aquatic bird life and other fauna. No vahiolas or boats shall be allowed in this zone. A permit to use a rowing boat or cance on Lake Clifton or Lake Preston may be granted only under exceptional circumstances and subject to the approval of the Board.
- 9.1.5 The whole area of the Crostol Block to be a Wildorness Area in which only footboths end perhaps bridle tracks may be permitted. No vahioles should be allowed in this zone.

- 9.1.6 The use of the gazetted water skiing area at the southern and of Lake Preston may be allowed for water skiing, subject to review.
- 9.1.7 The remaining land ereas of Yalgarup Block and the area of Old Coast Road Block to be used in a manner appropriate to the Natural Areas of a National Park.

9.2 Roads, Tracks and Paths

- 9.2.1 All areas of the park are accessible from the existing road and track system.
- 9.2.2 In the Cape Bouvard Block the existing track around the northern section should be improved, mainly on its existing alignment, to form a one—way motor nature trail. On the coestal side, realignment is necessary in parts to avoid areas subject to erasion, and a connecting link is required south of Tim's Thicket Road.
- 9.2.3 Branchas should be provided to small parking areas in low ground behind lookout positions north east of White Hill, at Dad's Lookout and at Tim's Thicket.
- 9.2.4 This road should be surfaced with limestone to permit use of two-wheel drive vehicles, including mini buses. The alignment is shown in the Development Map.
- 9.2.5 Small parking areas should also be provided at the entrance to the Park on the White Hill Road, the turn off for the start of motor nature trail, in the woodland near White Hill and at other points indicated on the Davelopment Map.
- 9.2.6 Footpaths for formal nature trails should be constructed in the following areas:-
 - (a) South from the entrance to the Case Bouverd Block,
 - (b) In the vicinity of Cape Bouverd itself.
 - (c) Between Preston Beach Road and Lake Preston in the Old Const Road Block.

9.2.7 The routing of the nature trails, and of footpaths in Wilderness Areas, shall be subject to the approval of the Board.

9.3 <u>Control of Usa</u>

- 9.3.1 To control the Cape Bouvard Block, a Ranger should be housed close to where White Hill Road enters the Park.
- 9.3.2 Entrance to and exit from the Cape Bouvard Block should be only through a gate on White Hill Road.
- 9.3.3 Entrance fees should be charged for entry of the public into the Cape Bouvard Block.
- 9.3.4 Yelgarup, Constal and Old Coast Road Blocks should be controlled by a ranger housed to the east of the Lake Preston Causeway.

INFORMATION FOR THE PUBLIC

).

- 10.1 A brochure is required on the Yalgorup Netional Park,
 to be made available to the public at the park antrance,
 from the Rangers and through tourist bureaux.
- 10.2 The brochure should describe briefly the natural features of the park, the facilities available for public enjoyment of the park, the general requirements for management and control, and a map.
- 10.3 Additional and more specific information should be incorporated on display panels at the park entrance and at lookeut points.
- 10.4 Nature trail guide sheets are required, and should be sold to the public.
- 10.5 A comprehensive booklet describing the natural resources of the park in some detail is highly desirable. This too should be sold to the public.

- 61 -

SPECIAL WORKS AND BUILDINGS

- 11.1 The first essential work is the provision of quarters for two Rangers in the park as described under .3.

 Two transportable houses, together with water supply (roof catchment and bore), electricity supply (generator or connection to nearby power supply as appropriate) and sheds for equipment are needed.
- 11.2 The preparation of a motor nature trail in the Cape

 Bouvard Block (9.2.2) will require light grading to

 form the one-way readway, and surfacing with limestone
 gravel. A total of 8 miles (13 km) is involved.
- 11.3 Owing to public pressure on the park, fencing is required around the Cape Bouvard Block -
 - (a) to protect the animal life from shooters and dogs and from disturbance by cross country vehicles;
 - (b) to protect the vegetation from damage and stop the acceleration of sand dune movement caused by cross country vehicles;
 - (c) to protect the kangaroos and smus from straying into adjoining properties and on the Old Cost Road.
- 11.4 To provide the necessary protection a 2m high chain link fence should be constructed to the south of Tim's Thicket Road and the existing quarry to the south west corner of Location 285,and thence southwards following the eastern boundary of the park to Location 1390 and thence westwards along the northern boundary of Location 721 to Lake Clifton. The total length of the fencing required is 10 miles (16 km).
- 11.5 In addition to the above, vehicle fences are required to limit the movement of recreation vehicles to their allocated area north of Tim's Thicket Road and to achieve control in the south western corner of the Cape Bouvard Block. The total length of vehicle fencing required is 1 mile (1.6 km).

11.6 At the entrance to the Cape Bruvard Block a kinsk should be constructed for the control of the gate, collection of entrance fees, distribution of brochures, and sale of booklets and refreshments.

STAFF AND LABOUR

- 12.1 The following permenent staff are required :-
 - 1 Ranger in Charge Grade I-II Cape Bouvard Entrance
 - 1 Assistant Ranger Grade III Preston Seach Road
 - 1 Assistant Ranger Mobile
 - 1 Gate Keeper
- 12.2 The Mobile Ranger would be available to provide supervision at points of pressure as they develop.
- 12.3 The Gate Keeper would be required to man the gate and kiesk at the entrance to the Capa Bouvard Block.

 He could be a local resident with a strong personal interest in the Park.
- 12.4 Major operations such as erection of the fences, surfacing of roads and maintenance of firebreaks would be done by contract.
- 12.5 Casual labour may be employed as necessary for maintenance, repairs and ecological management.
- 12.6 The long term work of research into plant succession and monitoring the effects of ecological management and public use would be a normal function of the permanent scientific and technical National Parks Staff.
- 12.7 The ecological surveys which are needed to provide basic groundwork information about the park could be a function of the Staff of the National Parks Board in co-operation with the appropriate agencies, including the W.A. Museum, the Department of Fisheries and Wildlife, the W.A. Herbarium and the University of W.A.

AGREEMENTS AND ACQUISITIONS

- 13.1 In order that Reserve 24198 vested in the Mandurah Shire Council may be managed and controlled as a National Park, it would be necessary for all that part of the Reserve south of Tim's Thicket Road to be gazetted as a National Park under the control and management of the National Parks Board.
- 13.2 Agreement to this would need to be obtained from the Mandurah Shire Council.
- 13.3 Consent to the erection of a gate across Road No. 13427,
 White Hill Road, and for the control of use of this
 road of access to the National Park, would also need
 to be obtained from the Mandurah Shire Council.
- 13.4 Murray Location 742 (1 000 acres) is a part of the scenery and ecology of the Capa Bouvard Block, and as such is essential to the preservation of park values and every effort should be made to have it included in the park.
- 13.5 The northern part of Location 742, Lot 1 (500 acres) is on the market at the time of writing. The Land Purchase Board valued it at \$300 per acre (21st May 1974). The asking price is \$400 per acre.
- 13.6 The addition of Location 742 would bring the effective area of the Cape Bouvard Block up to 5 900 ares (2 400 ha).
- 13.7 Murray Location 122 (40 acres) and Wellington Locations
 1331 (203 acres) and 3910 (117 acres) adjoin the western
 shore of Martin Tank in the Yalgorup Block. It is essential
 that they be included in the park and every effort should
 be made to achieve this.

The Locatione between take Clifton and the sea and between the Capa Bouvard Block in the north and Yalgorup and Coastal Block in the south are virtually undeveloped and are a continuation of the ecology of the National Park. It is highly desirable that this area be added to the Park.

FINANCIAL ESTIMATES

4.

14.1 The improvements proposed in Chapters 11 and 12 are to be considered when circumstances and funds permit.

14.2 The estimated cost of the improvements proposed is as follows:-

Grading and surfacing park roads	\$16	000
Fencing and gates	60	000
Rangers houses 2 @ \$20 000	40	000
Water supply - 2	3	000
Electricity supply - 2	5	A 00
Sheds - 2	3	P 00
Four wheel drive vehicles - 3	15	000
Radios – 3	3	000
Sundry equipment	3	000
Tractor - 1	9	000
Kiask	3	●00

\$160 700

DR SMITH

THIS IS THE FIRE SECTION

FOR THE YALGORUP
WORKING PLAN - SKETCH
PLAN TO FOLLOW.

ROD ANDRESON 25/11/77



8.8 FIRE MANAGEMENT

- 8.8.1 The aim of the Fire Management Plan is to achieve within each ecosystem, wherever possible, a chance for normal vegetation associations to develop a subclimax community while ensuring the safety of the park and adjoining lands.
 - 8.8.2 This Fire Management Plan is to accompany the Working Plan, produced in 1975, and is to be updated with knowledge gained from fire occurrence and with the input gained from all types and sources of research.
- 8.8.3 Plans are given for each block.

8.8.4 Cape Souvard Block

- a) By utilising the dual management lines and/or management line combined with tracks, bufferstrips to be burnt at irregular intervals so as to retain a reduced fuel zone, without increasing the already prevalent introduced grasses etc.
- b) Where there is only single management lines, these lines to be maintained free of growth, and during periods of low to moderate fire hazard conditions, a cycle of strip burns to be established so as to afford greater protection to our neighbours and the park. Special emphasis to be placed on this method as required for the housing estate immediately north of Cape Bouvard Block.

8.8.5 Coastal Block

- a) This block as depicted in the management plan terminates at the eastern boundary of Water Reserve 1249. All that land to the east of locations 1536, 120 and 1535 are portion of Yalgorup Block.
- b) Buffer strips to be burnt at irregular intervals.
- c) Special care will have to be taken in the north eastern corner of the block, where capstone excludes the possibility of a satisfactory dual firebreak system, and occasional strip burns will be necessary. From time to time it may also be necessary to strip burn immediately north of location 1744 in the southern section of the block.

8.8.6 Yalgorup Block

- a) This block terminates at Preston Beach Road, all land south and west of this line is within the Old Coast Road Block.
- b) All buffer strips to be burnt at irregular intervals, with particular attention to those being used as cutoffs between the lakes and to its most northern and southern points.
- c) Strip burns to be carried out alongside roads and single management lines.
- d) The whole purpose for Yalgorup Block is to offer the necessary protection to our neighbours

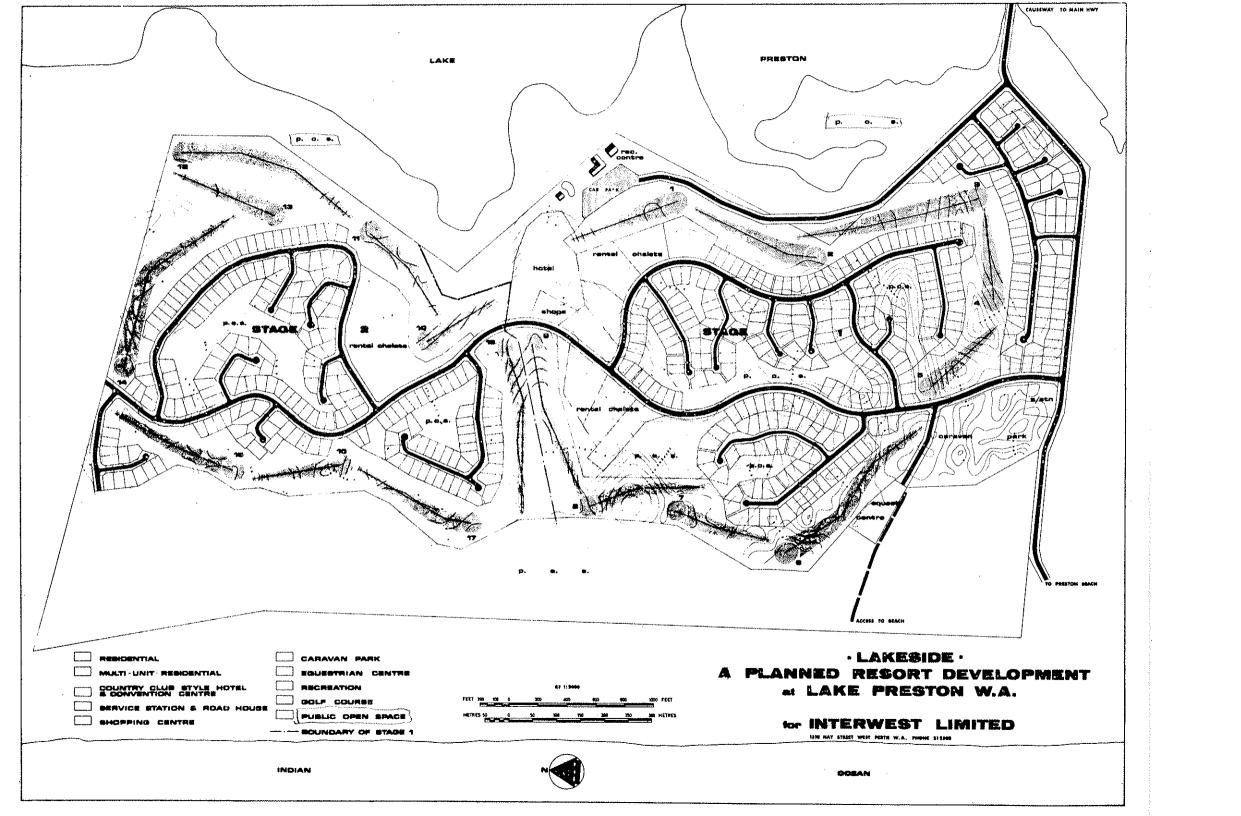
and maintain this block free of fire as at this stage it is the oldest and possibly the most varied growth in the park.

8.8.7 Old Coast Road Block

a) Management lines to be maintained and strip burning to be carried out, especially in relation to adjacent roads.

8.8.8 General

- a) Once the buffer and strip burns have been established and if internal growth is maintained a close watch will be kept to ascertain burning cycles necessary. If a system of mosaics is carried out, I would to this date, like to see something in excess of a six year cycle, as this area has in the past had a frequent fire history and has not had a real chance to show its potential, excepting possibly Yalgorup Block.
- b) Width of strip burns will vary according to position, width and depth of block, and growth type. This also applies to the buffer strips which are of variable width, because of the same reasons.
- c) This plan to be amended, per any factors relating from studies in progress and fire occurrence.



Lakes Preston and Clifton 22 Mar 1974

Objects - Preserve use by birds.

Method - Breserve and maintain natural vegetation surrounding lakes, paperbarks and rushes and sedges.

Restrict use of motor boats to strictly limited areas. Existing scheduled ski area at south end of Lake Preston.

Permit rowing and sailing for recreasion and relaxation and observation of bird life. Prohibit competitive sports, exceptionals special generally.

Provide parking areas in lookout positions to enable visitors to observe the birds.

Privide information data to enable visitors identify the birds and recognise the different types of vegetation in the park. Information boards in discrete picknic spots and illustrated brochure.

MATIONAL PARKS BOARD OF W A

DIRECTOR'S MONTHLY REPORT FOR THE FEBRUARY 1975 BOARD MEETING

1. TOURING

Torndirrup, William Bay and the Walpole-Nornalup National Parks were visited. The main purpose at Walpole-Nornalup was to gather material for the Working Plan. In addition a close inspection was made of the areas of private land contained within the Park, for which application had been made for Commonwealth funds for their purchase.

Yalgorup National Park was visited with Mr Roland Bræckwoldt of the Commonwealth Department of Conservation and Environment and areas of private property which are considered essential for inclusion in the National Park and those which are considered desirable were inspected.

2. <u>VISITORS</u>:

An initial meeting was held at the Department of Environmental Protection of the interested parties to meet Mr Roland Breckwoldt of Dr Moss Cass's Department, who had come to Western Australia to get first hand knowledge of the areas for which Commonwealth funds had been requested for their purchase as additions to the National Parks and Wildlife Reserves.

Mr Breckwoldt visited the National Parks Board Office and was briefed concerning the areas in which the Board is interested.

Mr Griffiths of the Town Planning Department came to discuss the Mandurah - Sunbury Region and was provided with copies of the vegetation map of the Yalgorup area.

3. VISITS:

Discussions were held with the Works Committee of the Mandurah Shire Council concerning the northern area of the Cape Bouvard Block of the Yalgorup National Park, in particular aspects of exchange of land in Reserves 21271 and 24198. It was clear from the Shire Engineer's comments that the northern part of Reserve 21271 is considered very valuable to the Shire as a source of gravel.

The members of the Shire present indicated favourable attitudes towards the transfer of land in the Tim's Thicket Area so that the National Parks Board would have control of the southern part, and to the closure of White Hill Road with a proviso that free passage was granted to the occupiers of land who needed to use the road for access.

The matter of obtaining funds for the construction of the fence and other capital works required in the Cape Bouvard Block could be subject to further discussion as to the most suitable source of funds.

The Mandurah Shire Council's agreement to the essential proposals is awaited.

4. CAPE RANGE NATIONAL PARK:

Together with the President, the Director revisited the Department of Town Planning to examine the Exmouth Shire Council's plan for the Shire.

DIRECTOR'S MONTHLY REPORT FOR THE FEBRUARY 1975 BOARD MEETING

4. CAPE RANGE NATIONAL PARK: (CONT:)

Application was made by the President to the Minister for consideration of the creation of a Marine National Park in the shallow waters out to the reef along the shore of the Cape Range National Park.

5. HAMERSLEY RANGE NATIONAL PARK:

As previously reported, Goldsworthy Mining wish to export a trial shipment of ore from Packsaddle Mine through Yampire Gorge. The Ranger reported Bell Bros activity on that road and investigations by the Main Roads Department reveal that the District Engineer had attempted to make contact with the Ranger who was and still is on leave.

It transpires that the work being done to the road through Yampire Gorge is no more than what the National Parks Board would wish in the way of improving the surface and removal of hazards.

6. <u>WALPOLE-NORNALUP</u> NATIONAL PARK:

As mentioned, the above park was visited with a view to gathering information for the Working Plan. Much time during the month has been spent combing very old files to extract the relevant data needed for the first chapter of the Working Plan.

7. CONSERVATION THROUGH RESERVES COMMITTEE REPORT:

The above report was received and studied and the President was supplied with minor comments for forwarding to the Environmental Protection Authority. It was interesting to note that the Conservation Through Reserves Committee had recommended Marine National Parks or Aquatic Reserves all along the western shore of Cape Range from North West Cape in the north to Point Anderson in the south, as well as in the Shark Bay area.

8. SOUTH PACIFIC CONFERENCE ON NATIONAL PARKS:

A Situation Report concerning Western Australia was prepared for the above Conference and the Minister was provided with notes for his personal comments.

DIRECTO

14 February 1975

Shire Clerk
Mandurah Shire Council
Mandurah Terrace
MANDURAH W A 6210

12 February 1975 Our ref: FGS:ML

Dear Sir,

YALGORUP NATIONAL PARK

The Working Plan for the above park has now been completed and is being considered by the National Parks Board.

In accordance with the verbal request of the Shire, Resorve 24198 vested in the Shire of Mandurah was included in the planning.

The plan provides under Public Use for all that area of the Cape Bouvard Block (Reserve Al2189) lying to the south of Tim's Thicket Road to be used in a manner appropriate to a Natural Area of National Park with special emphasis on the observation of animal life.

The plan also provides for the area of the Cape Bouvard Block lying to the north of Tim's Thicket Road to be available for recreation purposes and for the quarrying of gravel according to Mandurah Shire and National Park requirements.

It is proposed that the Cape Bouvard Block south of Tim's Thicket Road be fonced, with an entrance gate on White Hill Road, (Road No 13427), and an entrance fee be charged.

For the plan to be put into effect, agreement of your Council is required to the following: -

- 1. The vesting and purpose of that portion of Reserve 24198 south of Tim's Thicket Road be changed from the Shire of Mandurah for Camping and Recreation to the National Parks Board for care and management as National Park.
- 2. The northern part of Reserve 21271 as indicated on the enclosed plan including existing quarries to be vested in the Shire of Mandurah for quarrying and recreation and not to be included in the National Park as proposed by the Lands Department.

... / 2

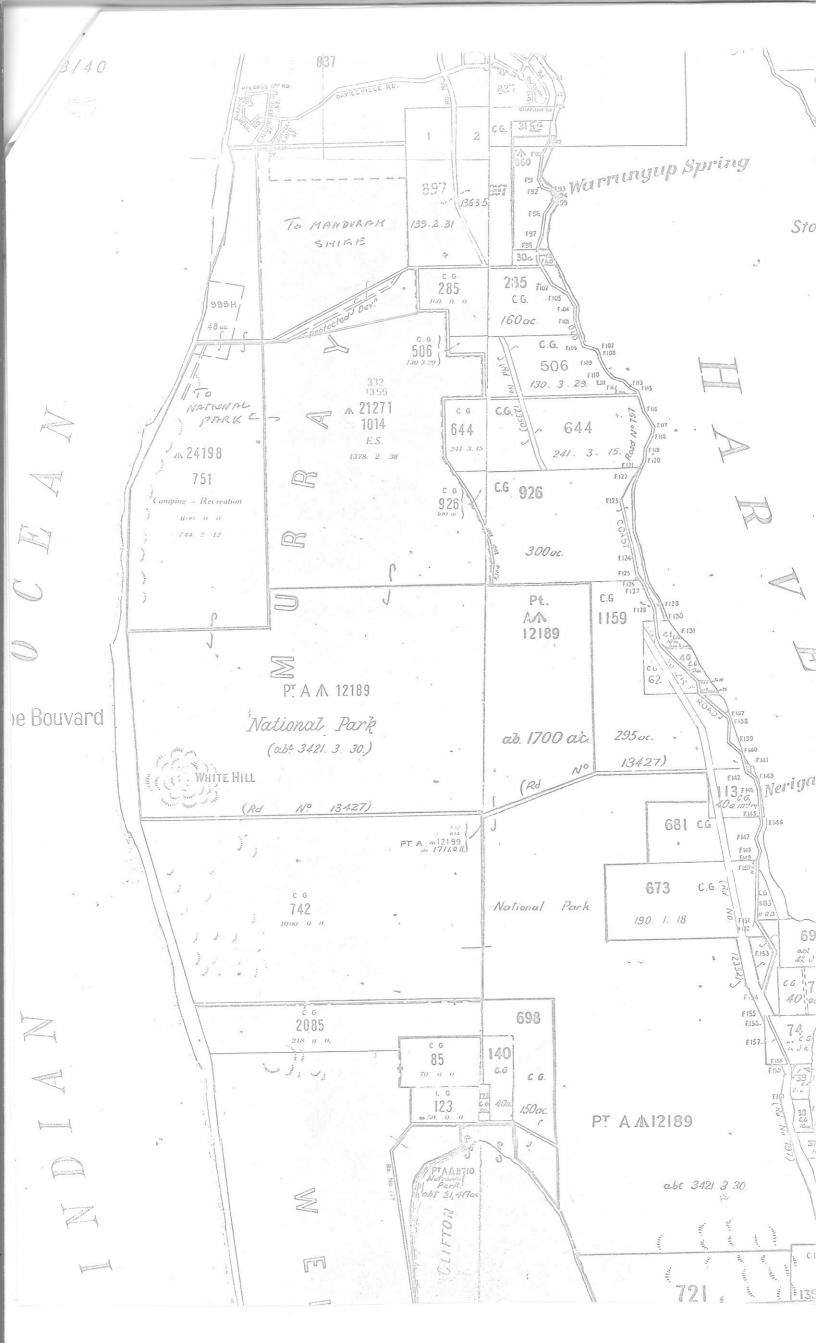
- 3. That part of Reserve 21271 south of the line indicated on the enclosed plan be included in the National Park.
- 4. That Road No. 13427 be closed by a gate for National Park purposes, provided that free passage be granted to the occupiers of those properties to which the road gives access, and that the road may be realigned where it passes through the National Park.
- 5. That the Council discuss with the National Parks Board appropriate means of obtaining funds for the construction of the proposed fence, motor nature trail and spura to lookout points, entrance kiosk and other capital expenditure involved in establishing the proposed form of public use in the Cape Bouvard Block of the Yalgorup National Park; and that the Council gives its support to and, where appropriate, assists the National Parks Board to obtain funds for the above purposes.

I should be grateful if the above could be brought to the attention of the Mandurah Shire Council as requested by the Works Committee on 11 February.

Yours faithfully,

DIRECTOR

Enc.







SCHOOL OF APPLIED SCIENCE

CANBERRA COLLEGE OF ADVANCED EDUCATION

P.O. BOX 381 CANBERRA CITY A.C.T. 2601

TELEGRAMS: COLLADVED

BRUCE A.C.T. TELEPHONE 52 2111

6 March 1975

Dr F.G. Smith, Director, National Parks Board, Hackett Drive, CRAWLEY, W.A. 6009.

Dear Dr Smith,

I enjoyed our discussion in January when I was in Perth. I hope you will be able to visit the College some time when you are in Canberra to continue our talk. I trust also that by now you have seen the notes from the Third Summer School of Park Management and had discussion with Terry Hales about its value. We are always keen to have ideas on how to improve the School, so if it can be made of more value please let me know. The College is planning to run a Fourth School in February next year, and details will be mailed to you later.

I have had a chance to go through the Yalgroup Working Plan. Overall I was impressed by it, and would like to use it for teaching when it becomes generally available. So please send us 3-4 copies when it is printed. My comments as follows have to be read in the light that I have not visited the area, and consequently am liable to mis-interpret aspects of the plan. I am obviously not competent to comment on the staffing-finance sections.

1.6 <u>Climate</u> Would it be advantageous to give some information on climate as it affects recreation - i.e. number of sunny or wet days, etc. in different seasons. Is the area unsuitable, or uncomfortable at any times for users.

1.7 Vegetation

This section, and Section 2, seems most comprehensive and an excellent basis for Park planning.

1.8,3 Animal Life

In contrast to the vegetation side this seems superficial. More linking to the vegetation side by habitat relation—ships. It seems that much information in the form of species lists is available, but it needs interpretation. Are there any rare or endangered species known in the reserve. Are there any species that are especially attractive to the public, that can perhaps be presented in some way.

Drechol Rond 21/4/75

- 5. Present Use Surely some information of road counts would be readily obtained. Even some observations of the main activities that presently occur would help this section.
- 5.2 Areas of Attraction a good section.

Future Management

The compromises made to obtain the park certainly make management difficult. I like your general Statement of Philosophy in 1.1 and more specific objectives in 1.2 Your ecological management plans in 2.3 seem to be based very heavily on habitat management and I trust a competent wildlife biologist has been involved.

Public Use

I wonder if you can really have a Wilderness Area with footpaths and bridle trails. One needs to assess just why people come to the park, what sort of experiences they are seeking. If these can be accommodated without compromising park values then plan for them, if not plan elsewhere. Are you trying to establish a dune buggy area outside the reserve to take the pressure off?

· Arterior and a state of the s

I certainly have enjoyed reading the plan, which is one of the better ones I have seen. I would be keen to use it for teaching when you are able to make it public. Looking forward to seeing you again in the future.

Yours sincerely,

(PETER CULLEN)
Senior Lecturer in Resource Management

WORKING PLAN FOR YALGORUP NATIONAL PARK

DIRECTOR'S COMMENTS ON SUGGESTIONS OF THE NATIONAL PARKS BOARD OF 25 MARCH 1975

- 1. A working plan is a definitive statement of works to be carried out during the period of the plan after due consideration of all the known facts, the overall National Parks Policy, and the particular objectives and needs appropriate to the area.
- 2. In addition to the Summary of Facts on which Proposals are Based (Part I), the future management (Part II) contains prescriptions for ecological management, including research, for management of public use including provisions of facilities and for control of use, and for the provision of information for the public.
- 3. These prescriptions are instructions to the National Parks organisation for definite works to be done during the period of the plan. Estimates of the cost of such works, and, if appropriate, of revenue accruing, have to be presented.
- 4. A working plan has to be either approved, after amendment if necessary, or rejected for major revision. Agreement in principle is merely a bureaucratic device for procrastination.
- 5. In any prescription which is approved, the word "shall" provides the correct tense. If the prescription is not approved, either it must be deleted, or be rewritten in an acceptable form.
- 6. The Board is requested to reconsider the prescriptions in this light.
- 7. The corrections pointed out by the Board have been made to the following paragraphs in Part I: -

2.2.4 6.1.1

The suggestions for further investigation relative to Part I will be followed up as soon as possible.

- 8. The Board's attention is drawn to the following correction to paragraph 1.6.1 (page 11): amend "1 500 mm" to read "880 mm".
- 9. Add new paragraph to Part I (page 21): 2.3.8 On 19 to 21 December 1974 an extensive fire swept
 through reserves 21271 and 24198 (Cape Souvard Block)
 after starting in Location 897 near Harvey Estuary.
- 10. It is acknowledged that the information on bird activity on Lake Preston obtained this summer, after the submission of the Working Plan to the Board, puts the use of this Lake for boating in a different light.

DIRECTOR'S COMMENTS ON SUGGESTIONS OF THE NATIONAL PARKS BOARD OF 25 MARCH 1975

- 11. A new paragraph is added to Part I (page 22)
 - 3.1.6 Mountain Duck were observed to moult on Lake Preston during November 1974. During the moult period the flightless ducks massed in extensive rafts on the surface of the lake.
- 12. Arising from the Board's recommendations the following amendments have been made to Part II the paragraphs to read as follows:
 - 1.3.4 (page 44) Because only one tenth of the shoreline of Lake Preston is backed by National Park land, the rest being in private ownership, the maintenance of this lake as a wildlife sanctuary will require extra vigilance.
 - 1.3.5 (page 44) The Harbour and Lights Department shall be approached for the purpose of having the gazetted skiing area at the south end of Lake Preston cancelled, but skiing shall be allowed to continue for the present in this area under the control of the By-laws of the National Parks Board.
- 13. 2.4 <u>Weed Eradication</u> (page 51) Delete 2.4.1 and 2.4.2 and insert -
 - 2.4.1 The best advice shall be obtained on the eradication of weeds on roadsides and elsewhere.
 - 2.4.2 Every effort shall be made to eradicate the weeds by the most appropriate method.
- 14. The full purpose of the Board's suggested amendment to 2.6.3 (page 53) is not understood. A mere list of species is of no help to ecological management. The habitat requirements of each species must be determined, and migration habits need also to be studied. The latter would require a longer period of study. With this in view, would the Board reconsider the wording of the amendment to this paragraph.
- 15. Paragraph 3.1.4 (page 55) has been amended as suggested.
 Insert after "Lake Clifton" in the first place ",Lake Preston",
 and after "Lake Clifton" in the second place "or Lake Preston".
- 16. The suggested amendment to paragraph 3.1.5 is indecisive and not appropriate to a working plan prescription. If the Board disagrees with the prescription as it stands, a definitive amendment should be made.
- 17. The above comment applies also to the suggested amendment to 3.1.6.
- 18. Paragraph 3.1.7 is amended by the deletion of the words "and the waters of Lake Preston". After "Yalgorup Block" delete "," and insert "and".

WORKING PLAN FOR YALGORUP NATIONAL PARK

- 3 -

DIRECTOR'S COMMENTS ON SUGGESTIONS OF THE NATIONAL PARKS BOARD OF 25 MARCH 1975

- 19. The tense "should" has been used where appropriate in Chapter 3.2 Roads, Tracks and Paths, 3.3 Control of Use, 4 Information for the Public, 5 Special Works and Buildings, and 6 Staff and Labour in recognition of the fact that circumstances (particularly those covered by 7.1, 7.2 and 7.3) and funds may not permit these prescriptions to be put into effect in the immediate future.
- 20. If the Board agrees that these proposals should be carried out within the life of this plan, then steps should be taken to allocate or obtain the necessary funds. Such action as the Board approves should be written into the Plan.
- 21. As far as Chapter 7 Agreements and Acquisitions in concerned, the Board has authorised an approach to the Mandurah Shire Council concerning paragraphs 7.1, 7.2 and 7.3 and application has been made through the appropriate channels for a State Grant from the Commonwealth for the proposed land acquisition.
- 22. The Board's suggested amendments have been made to paragraphs 3.2.7 (page 58) and 6.7 (page 63).
- 23. It is acknowledged that Chapter 8 Financial Estimates is but a bare outline. The figures for expenditure are based upon the best information available at the time the Plan was written. What is missing from the Plan are prescriptions for the timing of various improvements. The fencing and gates and grading and surfacing of park roads are to some extent dependent upon agreement with the Mandurah Shire Council (paragraphs 7.1, 7.2 and 7.3). The remaining improvements can be carried out as quickly as the Board wishes. Alternatively the expenditure on improvements can be spread out evenly over the five years of the Plan.
- 24. When the Board has made its decisions on these points, Chapter 8 can be rewritten in greater detail.

DIRÉCTOR

10 April 1975

11 11 11

NATIONAL PARKS BOARD OF W A

MINUTES OF SPECIAL BOARD MEETING HELD AT HEAD OFFICE, MATILDA BAY RESERVE ON TUESDAY 25 MARCH 1975 COMMENCED AT 2.00 P.M.

ATTENDANCES: Messrs. C F H Jenkins, President

C R L Gibson,

G R W Meadly,

H R Gorringe, Acting Secretary.

1. MATTERS FOR DISCUSSION:

- (a) Representation at Standing Committee of the Council of Nature Conservation Ministers to be held in Canberra on 21 to 22 May 1975.
- (b) Discussion and recommendations concerning Yalgorup National Park Working Plan.
- (c) John Forrest National Park Tearcoms Meeting with Lessee.

2. STANDING COMMITTEE MEETING:

After discussion it was agreed that a representative of the National Parks Board should attend the above meeting in Canberra on 21 and 22 May 1975.

3. YALGORUP NATIONAL PARK - WORKING PLAN:

- (a) The Meeting requested that its appreciation of the Director's report be formally recorded. Members considered that the method of presentation and the detailed information included in the Report provided a very satisfactory model for other comparable documents. However, it was agreed that until further staff was available future management plans should be less comprehensive than that prepared for Yalgorup. This would help the Board to make quicker (but more limited) decisions on a number of parks requiring urgent attention while bearing in mind the long term interests of the reserves and the necessity for further investigations.
- (b) It was agreed that the Director's working plan should be agreed to in principle subject to the following amendments and comments:
 - General That the word "shall" used throughout the report be replaced by the more appropriate word "should" wherever possible.
 - Page 18 V Item 2.2.4 "Haplonyx fibialis" should read "Haplonyx tibialis".
 - Item 2.2.5 Regeneration of Tuart was acknowledged as very important. Suggested that the successful reafforestation of these trees carried out at Rottnest might be investigated.
 - Page 29 Item 5.2.10 Rottnest Tea Tree Island Importance noted and necessity for preservation acknowledged.
 - Page 31 Additional Item 5.3.11 Check existence of a further landing strip on Pearson's property, edge of Lake Preston.

MINUTES OF SPECIAL BOARD MEETING HELD TUESDAY 25 MARCH 1975

3. YALGORUP NATIONAL PARK - WORKING PLAN: (CONT:)

- Page 35 V Item 6.1.1 "National Parks and Native Reserves in Western Australia" should read "National Parks and Nature Reserves in Western Australia".
- Page 44 ✓ Item 1.3.5 No further boating to be permitted on Lake Preston until more information is available on its possible effect on the environment.
- This decision was influenced by the large number of water fowl (ducks, swans and migratory waders) using the lake this summer and the Mountain Duck moult which took place during November 1974, involving some thousands of flightless birds, an incident of which the Board had no previous records.
 - Discuss with Harbour and Light Department, that the gazettal of the present skiing area be cancelled, the pastime to be allowed to continue for the present but under the control of the National Parks Board By-laws.
- Page 51 Item 2.4.1 Weed Eradication To read "That the best advice should be obtained and the problem be handled by the most appropriate method."
- Page 53 Item 2.6.3 To read as follows -
 - "A comprehensive fauna survey is required (mammals and birds taking priority). Habitat requirements and migration habits also need study."
- Page 55 Item 3.1.4 To read " exceptional circumstances and subject to the approval of the Board."
 - Item 3.1.5 To read "..... Wilderness Area in which only footpaths and perhaps bridle tracks may be permitted. No vehicles should be allowed in this zone."
- Page 56 Item 3.1.6 To read ", southern end of Lake Preston may be allowed for water skiing,
- Page 58 / Item 3.2.7 To read ", shall be subject to the approval of the Board."
- Pages 59,
 61, 62
 & 63 to Item 6.4 are to have an overrider "To be considered when circumstances and funds permit."
- Page 63 Item 6.7 To read "The ecological surveys which are needed to provide basic groundwork information about the parks could be a function of the staff of the National Parks Board in co-operation with the appropriate agencies, including the W A Museum, Department of Fisheries and Wildlife, the W A Herbarium and the University of W A.

MINUTES OF SPECIAL BOARD MEETING HELD TUESDAY 25 MARCH 1975

- 3. YALGORUP NATIONAL PARK WORKING PLAN: (CONT:)
 - Page 66 Item 8 Financial Estimates. As there is not enough information available to support these estimates, these should be deleted from the report and replaced when more facts are available.
 - (c) Future Reports: It was decided that the Director be asked to list five or six priorities for reports on other National Parks, with a high listing for Nambung National Park, bearing in mind the recent approval for aircraft containing visitors to the Pinnacles to land in the National Park. Also the possibility of funds being made available for the upgrading of the access track to the Pinnacles.

The above decisions to be circulated to all members and the Director as soon as possible. The Director to have opportunity to comment at next meeting.

4. JOHN FORREST NATIONAL PARK - TEARGOMS:

A meeting has been arranged between Board members and the Lessee, John Forrest National Parks Tearooms, to be held at Head Office on Wednesday 9 April 1975 commencing 10.00 a.m.

THE MEETING CLOSED AT 4.00 P.M. CERTIFIED AS A TRUE AND CORRECT RECORD

18 April 1975

PRESIDENT

