PEEL-HARVEY ESTUARY
FORESHORE LAND USE STUDY

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November, 1985
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SECTION 1

INTRODUCTION

This report is an investigative study of the Peel-Harvey Estuary foreshore areas.

The area of study has been divided into two parts; the Eastern and Western foreshores.

The Eastern side extends from the Mandurah Traffic Bridge to the Harvey River. The Murray River and Serpentine River Deltas are included. This area has been examined for foreshore land use and ownership. Similarly, the Western side extends from the Mandurah Traffic Bridge to the Harvey River. This area has been studied in greater detail to include assessment of vegetation status and community facilities and usage patterns.

This report provides the basis for planning the location of facilities without further disturbance to the remaining units of natural environment. Observance and implementation of this report will provide the basis for future preservation of natural areas.
SECTION 2: VEGETATION OF THE WESTERN FORESHORE

This vegetation study was carried out in order to facilitate the mapping of vegetation complexes of the western foreshore area of the Peel-Harvey System. As such, only dominant species have been identified and no attempt has been made to compile a detailed species list.

2.1 Vegetation Complexes and Minor Species

The vegetation complexes identified in the area of study are marked and numbered on the BG 32; 1.7, 1.6, 1.5 and 1.4 map series in the manner shown on Table 2.

Table 1 provides extra details pertaining to the area of study, which for practical reasons could not be illustrated on the maps.
<table>
<thead>
<tr>
<th>VEGETATION COMPLEX</th>
<th>MINOR SPECIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CJ 1</strong></td>
<td><em>Acacia</em>, <em>Banksia</em> and <em>Tuart</em> (<em>Eucalyptus gomphocephala</em>) trees are also present in this region. The area closest to the road is grassed, and in many cases, fenced off.</td>
</tr>
<tr>
<td><strong>CJ 2</strong></td>
<td>There are many exotic weeds (e.g. buffalo grass and clover) in this area which mostly extend through the <em>Juncus</em> complex to the beach. Peppermint trees (<em>Agonis flexuosa</em>) occur along the road's verge and there are signs of vehicle passage through the area.</td>
</tr>
<tr>
<td><strong>CJ 3</strong></td>
<td>Grassed BBQ/Recreation area with boat ramp and trailer park. Other trees found here are <em>Melaleuca</em>, and Peppermint trees.</td>
</tr>
<tr>
<td><strong>CJ 4</strong></td>
<td><em>Melaleuca</em>, <em>Tuart</em>, and <em>Acacia</em> are also present; the latter two species occur on higher ground. The region immediately behind the <em>Juncus</em> complex is grassed.</td>
</tr>
<tr>
<td><strong>MJ 5</strong></td>
<td><em>Casuarina</em>, <em>Tuart</em> and <em>Acacia</em> are also present. Much of the area is grassed.</td>
</tr>
<tr>
<td><strong>J 6</strong></td>
<td>Though the predominant vegetation here is <em>Juncus</em>, this complex is fringed along the waterline by <em>Melaleuca</em>, and along the road verge by <em>Acacia</em>, <em>Tuart</em> and various other <em>Melaleuca</em> species.</td>
</tr>
<tr>
<td><strong>MJ 7</strong></td>
<td><em>Templetonia retusa</em>, <em>Tuart</em> and <em>Acacia</em> species occur in this area, though they grow mainly on dry higher ground. This area is largely inaccessible as vegetation growth is dense.</td>
</tr>
<tr>
<td>Reference</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>TJ 8</td>
<td><strong>Melaleuca</strong> fringes the <strong>Juncus</strong> community along the water line. This community terminates at the edge of a limestone surface road that runs through the area. To the rear of this road, there is a Tuart woodland which extends up to, and beyond Estuary Drive.</td>
</tr>
<tr>
<td>MJ 9</td>
<td><strong>Acacia</strong> and <strong>Templetonia retusa</strong> shrubs are also present, though they are mainly found on dryer ground in close proximity to the road.</td>
</tr>
<tr>
<td>MJ 10</td>
<td><strong>Peppermint trees and T. retusa</strong> grow along the roadside. In areas where the water line is very close to the road, buffalo grass, couch grass, clover and other exotic weeds are prevalent.</td>
</tr>
<tr>
<td>J 11</td>
<td><strong>Melaleuca, T. retusa</strong> and <strong>Acacia</strong> are also present, though not in significant numbers.</td>
</tr>
<tr>
<td>MJ 12</td>
<td>Though this is predominantly a <strong>Melaleuca - Juncus</strong> complex, the area also contains <strong>Peppermint trees</strong>, <strong>T. retusa</strong> shrubs, and Tuart and <strong>Acacia</strong> trees. However, much of this vegetation is set back from the water line, and is closer to the dry ground near Estuary Road.</td>
</tr>
<tr>
<td>MG 13</td>
<td>Much of this land has been cleared of understorey, though a low <strong>Melaleuca</strong> woodland is still in existence. A great deal of erosion is evident along the waterline, and it may be possible that the vacant crown land which is supposedly situated along the foreshore in front of the private lots, no longer exists as it was observed that the boundary fence of one of the properties examined, extends 5-10m into the water. Alternatively, it is also possible that the fence extends into the water for grazing purposes, and thus, there may still be vacant crown land present.</td>
</tr>
</tbody>
</table>
### TABLE 2

#### KEY TO VEGETATION MAPS

<table>
<thead>
<tr>
<th>VEGETATION COMPLEX</th>
<th>SYMBOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melaleuca - Juncus (MJ)</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>Casuarina - Juncus (CJ)</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>Tuart - Juncus (TJ)</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>Juncus (J)</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>Casuarina (C)</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>Melaleuca Grassland (MG)</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
</tbody>
</table>
2.2 VEGETATION DISTURBANCE

This section deals with the current state of the vegetation units along the area of study. The zones under which vegetation has been discussed were formed on the basis of the degree of disturbance in a particular area. As can be seen by consulting the accompanying maps (Figures 1 and 1a), zones of highest disturbance occur in the vicinity of urban areas or where the road is in close proximity to the High Water Mark.

Details of the condition of vegetation in individual zones are as discussed in the following sub-sections.

Zone A

The natural vegetation of this area is partially submerged with exotic weeds extending through the vegetation complexes to the beach. Erosion is evident in the area as some trees are very close to falling into the water.

Zone B

The natural vegetation of this zone is in good condition; signs of disturbance are not evident.

Zone C

Various species of Melaleuca are present forming a low woodland; however, the area is highly disturbed with veldt grass dominating the undergrowth species.

Zone D

Much of the natural vegetation, particularly the undergrowth of this zone has been denuded; the area is now grassed and used as a picnic and ramp facility. The lower half of this zone consists of a narrow strip of land between the road and High Water Mark, the greater part of which is fenced. In this area exotic weeds extend through the Juncus complex to the beach.

Zone E

A large portion of this foreshore area is grassed and exotic weeds encroach onto the beach at many points.

Much of the area is fenced with logs to prevent vehicular access to the beach. Pressures from leisure and everyday living activities would be constantly exerted on foreshore vegetation by residents of this area, resulting in gradual degradation if uncontrolled.
Zone F

The natural vegetation of this zone is in good condition, there are no visible signs of disturbance or of weed growth.

A section of the area is almost inaccessible due to the density of vegetation growth.

Zone G

This area of vegetation is highly disturbed, a condition which is possibly due to the close proximity of the road to the High Water Mark.

Zone H

The various species of natural vegetation in this zone are undisturbed by weed growth.

Zone I

This area, described in section MG13 of the Table of Minor Species, has been cleared of all undergrowth and therefore, apart from a sparse Melaleuca woodland, little of the natural vegetation remains.

Zone J

The foreshore vegetation of this zone is in a relatively undisturbed state. Exotic weeds are present, however, they do not encroach on the natural vegetation to any significant extent.
SECTION 3

FORESHORE RESERVES

Reserves located along the Eastern and Western foreshores of the Peel-Harvey Estuary were researched. The location of each reserve is marked on the maps accompanying this study, and pertinent details on each are included in Tables 3 & 4.

3.1 MURRAY RIVER DELTA RESERVE A20215

The original purpose and intent in creating A Class Reserve 20215 was to form a national park for the use and enjoyment of the public.

The Surveyor General of the time personally inspected the site, and in a letter to the Under Secretary for Lands dated 11/5/1927, stated that:

"..........these islands (six in all) are ideal for the purpose of a national park, where the general public could camp and occupy their time in hunting, boating and fishing and I am inclined to think that a very great mistake would be made by alienating any more land here".
<table>
<thead>
<tr>
<th>RESERVE NO</th>
<th>PRESENT PURPOSE</th>
<th>GAZETTED</th>
<th>LOCATION</th>
<th>PRESENT AREA</th>
<th>PRESENT VESTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 8185</td>
<td>Recreation</td>
<td>20/12/63</td>
<td>Cockburn Sound</td>
<td>0.0001 ha</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3915</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A 20215</td>
<td>National Park</td>
<td>11/1/35</td>
<td>Murray</td>
<td>78.5090 ha</td>
<td>Shire of Murray</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>C 23015</td>
<td>Recreation &amp; Camping</td>
<td>25/11/49</td>
<td>Murray, 18</td>
<td>2.0234 ha</td>
<td>Shire of Murray</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3011</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C 27704</td>
<td>Recreation</td>
<td>8/10/65</td>
<td>Cockburn Sound, 2060</td>
<td>6.8797 ha</td>
<td>Shire of Murray</td>
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<tr>
<td></td>
<td></td>
<td>3471</td>
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<td></td>
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</tr>
<tr>
<td>C 27819</td>
<td>Recreation</td>
<td>22/10/65</td>
<td>Cockburn Sound, 2064</td>
<td>1.8742 ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3727</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C 32034</td>
<td>Recreation</td>
<td>6/7/73</td>
<td>Murray, 1638</td>
<td>10.0062 ha</td>
<td>Shire of Murray</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2592</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C 32836</td>
<td>Recreation</td>
<td>11/10/64</td>
<td>Cockburn Sound, 2296</td>
<td>16.8673 ha</td>
<td>Shire of Mandurah</td>
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<tr>
<td></td>
<td></td>
<td>3825</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C 33768</td>
<td>Public Recreation</td>
<td>12/12/75</td>
<td>Cockburn Sound</td>
<td>0.7286 ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C 38749</td>
<td>Floodway</td>
<td>31/8/84</td>
<td>Murray, 1777</td>
<td>68.6746 ha</td>
<td>Min. for Water Resources</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2778</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B 4990</td>
<td>Conservation of Flora and Fauna</td>
<td>31/8/84</td>
<td>Murray</td>
<td>Abt. 70.5373 ha</td>
<td>W.A. Wildlife Authority</td>
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<tr>
<td></td>
<td></td>
<td>2777</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>RESERVE NO</td>
<td>PRESENT PURPOSE</td>
<td>GAZETTED</td>
<td>LOCATION</td>
<td>PRESENT AREA</td>
<td>PRESENT VESTING</td>
</tr>
<tr>
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<tr>
<td>B 24036</td>
<td>Conservation of Flora and Fauna</td>
<td>6/11/84</td>
<td>Murray, 1017, 625</td>
<td>343.4643 ha</td>
<td>W.A. Wildlife Authority</td>
</tr>
<tr>
<td>C 2707</td>
<td>Conservation of Flora and Fauna</td>
<td>27/5/83</td>
<td>Murray, 1723</td>
<td>104.8238 ha</td>
<td>W.A. Wildlife Authority</td>
</tr>
<tr>
<td>C 33039</td>
<td>Recreation</td>
<td>20/12/74</td>
<td>Murray</td>
<td>1.9516 ha</td>
<td>Shire of Murray</td>
</tr>
<tr>
<td>C 27528</td>
<td>Recreation</td>
<td>7/5/65</td>
<td>Murray</td>
<td>4.0469 ha</td>
<td></td>
</tr>
<tr>
<td>C 11718</td>
<td>Recreation</td>
<td>7/5/65</td>
<td>Murray</td>
<td>4.0469 ha</td>
<td></td>
</tr>
<tr>
<td>A 2738</td>
<td>Conservation of Flora and Fauna</td>
<td>19/10/84</td>
<td>Murray, 1776</td>
<td>29.5000 ha</td>
<td>W.A. Wildlife Authority</td>
</tr>
<tr>
<td>A 24739</td>
<td>Conservation of Flora and Fauna</td>
<td>19/5/78</td>
<td>Murray, 173, 1683</td>
<td>Abt. 48.1460 ha</td>
<td>W.A. Wildlife Authority</td>
</tr>
<tr>
<td>A 23756</td>
<td>Conservation of Flora and Fauna</td>
<td>14/11/84</td>
<td>Murray, 1487, 1482</td>
<td>Abt.1019.0 ha</td>
<td>W.A. Wildlife Authority</td>
</tr>
<tr>
<td>A 31922</td>
<td>Recreation</td>
<td>27/5/83</td>
<td>Murray, 1631</td>
<td>Abt. 24.1959 ha</td>
<td>Shire of Murray</td>
</tr>
<tr>
<td>C 36126</td>
<td>Drainage &amp; Conservation of Flora &amp; Fauna</td>
<td>22/6/79</td>
<td>Murray, 1700</td>
<td>Abt. 31.096 ha</td>
<td>Min. for Water Resources</td>
</tr>
<tr>
<td>RESERVE NUMBER</td>
<td>PRESENT PURPOSE</td>
<td>GAZETTAL</td>
<td>LOCATION</td>
<td>PRESENT AREA</td>
<td>PRESENT VESTING</td>
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</tr>
<tr>
<td>C 37153</td>
<td>Public Recreation</td>
<td>25/9/1981 4075</td>
<td>Murray, 1729</td>
<td>3616m²</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td>C 37161</td>
<td>Public Recreation</td>
<td>4/9/1981 3829</td>
<td>Murray, 1728</td>
<td>6924m²</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td>A 24729</td>
<td>Recreation</td>
<td>-</td>
<td>Murray, 1517</td>
<td>5453m²</td>
<td>Unvested</td>
</tr>
<tr>
<td>C 28458</td>
<td>Recreation</td>
<td>6/10/1967 2607</td>
<td>Murray, 1586</td>
<td>3326m²</td>
<td>Shire of Murray</td>
</tr>
<tr>
<td>C 28243</td>
<td>Recreation</td>
<td>26/1/1968 152</td>
<td>Murray, 1581</td>
<td>3490m²</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td>C 27999</td>
<td>Public Recreation</td>
<td>2/3/1979 555</td>
<td>Murray, 1576, 1687, 1713</td>
<td>9230m²</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td>RESERVE NUMBER</td>
<td>PRESENT PURPOSE</td>
<td>GAZETTED</td>
<td>LOCATION</td>
<td>PRESENT AREA</td>
<td>PRESENT VESTING</td>
</tr>
<tr>
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</tr>
<tr>
<td>C 37706</td>
<td>Public Recreation</td>
<td>-</td>
<td>Murray, 1759</td>
<td>5.0262ha</td>
<td>Unvested</td>
</tr>
<tr>
<td>C 28349</td>
<td>Recreation</td>
<td>-</td>
<td>Murray, 1582</td>
<td>3.5056ha</td>
<td>Unvested</td>
</tr>
<tr>
<td>C 30624</td>
<td>Recreation</td>
<td>30/10/1970</td>
<td>Murray, 1618</td>
<td>2.3951ha</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td>C 36087</td>
<td>Boat Hire Facility</td>
<td>8/6/1979</td>
<td>Murray, 1698</td>
<td>330m²</td>
<td>Shire of Mandurah W.P.L. 21 yrs</td>
</tr>
<tr>
<td>C 25099</td>
<td>Storage of fishing boats and equipment</td>
<td>5/9/1958</td>
<td>Murray, 1526</td>
<td>1442m²</td>
<td>Shire of Mandurah W.P.L. 21 yrs</td>
</tr>
<tr>
<td>C 36027</td>
<td>Recreation</td>
<td>27/4/1979</td>
<td>Murray, 1695</td>
<td>abt. 6.7800ha</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td>C 36046</td>
<td>Boat Hire Facility</td>
<td>11/5/1979</td>
<td>Murray, 1697</td>
<td>abt. 200m²</td>
<td>Shire of Mandurah W.P.L. 21 yrs</td>
</tr>
<tr>
<td>RESERVE NUMBER</td>
<td>PRESENT PURPOSE</td>
<td>GAZETAL</td>
<td>LOCATION</td>
<td>PRESENT AREA</td>
<td>PRESENT VESTING</td>
</tr>
<tr>
<td>----------------</td>
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<td>----------------</td>
<td>-----------------</td>
<td>--------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>860</td>
<td>Recreation</td>
<td>8/5/1981 1403</td>
<td>Warrungup Spring</td>
<td>34.2122ha</td>
<td>Water Authority of Western Australia</td>
</tr>
<tr>
<td>C 33066</td>
<td>Public Recreation</td>
<td>-</td>
<td>Murray, 1654</td>
<td>4605m²</td>
<td>Unvested</td>
</tr>
<tr>
<td>C 36707</td>
<td>Boat Hire Facility</td>
<td>4/7/1980 2116</td>
<td>Murray, 1709</td>
<td>600m</td>
<td>Shire of Mandurah W.P.L. 21 yrs</td>
</tr>
<tr>
<td>C 36453</td>
<td>Public Recreation</td>
<td>29/2/1980 624</td>
<td>Murray, 1706</td>
<td>3.9969</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td>C 34177</td>
<td>Public Recreation</td>
<td>-</td>
<td>Murray, 1663</td>
<td>2105m²</td>
<td>Unvested</td>
</tr>
<tr>
<td>C 34680</td>
<td>Public Recreation</td>
<td>-</td>
<td>Murray, 1669</td>
<td>1.5252ha</td>
<td>Unvested</td>
</tr>
<tr>
<td>C 2990</td>
<td>Recreation &amp; Camping</td>
<td>25/3/1960 82S</td>
<td>Murray</td>
<td>69.0265ha</td>
<td>Shire of Mandurah</td>
</tr>
<tr>
<td>A 23756</td>
<td>Conservation of Flora and Fauna</td>
<td>11/7/1975 2349</td>
<td>Murray, 1487, 1488</td>
<td>1019ha</td>
<td>W.A. Wildlife Authority</td>
</tr>
</tbody>
</table>

*W.P.L. - With Power to Lease*
4.1 PEEL INLET

The recommended area is situated due south of Mandurah and comprises Reserves B4990 and B24036, for Conservation of Flora and Fauna, and C28087, for Conservation of Fauna, all vested in the W.A. Wildlife Authority; Reserve C8185, for Recreation, vested in the Shire of Mandurah; Reserve C2707, for Public Utility and Conservation of Flora and Fauna, and C7502, for Water, both not vested; portions of the Peel Inlet surrounding Reserve C8185, to the north of Reserve C28087 and west of Reserve B4990, and in the entrance to the Inlet; and Coolup A.A. Lots 223, 259, 276 to 278, Murray Locations 55, 295, 452, 842 and 1262, and part of Cockburn Sound Locations 5 and 16, all privately owned freehold land (Figure 37).

Housing developments, a proposed canal development and some recreational activities may affect the area’s conservation value.

The Environmental Review and Management Programme for the proposed canal development at the south-eastern end of the Inlet channel has been approved by the Environmental Protection Authority and has resulted in amended boundaries for the recommended area: the foreshore portion is smaller than that proposed in the System 6 “Green Book”, and a new area has been included around Soldiers Cove. The area will be affected by the Mandurah By-Pass Road bridge, which is due to be built north of Channel and Greery Islands. There are PWD drains in the south-east of Peel Inlet.

The area is discussed in the Peel Inlet Management Authority’s Management Programme, the Mandurah and Districts etanning Study, and the Peel-Harvey Estuary Study which includes a focus on its water catchment area and involves the study of the cause of the algal growth problem together with possible solutions.

The Peel-Harvey Estuary is probably the most important estuary in south-western Australia as a conservation area for water-birds. It has by far the largest pelican population in the region. The estuary also supports large populations of water-fowl such as grey teal; black swans are abundant; and many thousands of resident and migratory waders inhabit the area. Unusual species recorded include glossy ibis, yellow-billed spoonbill and royal spoonbill.

The most important areas as water-bird habitats are the extensive shallows around the southern and eastern shores and the tidal flats and shallows around Channel and Greery Islands. The shore areas in the north of Peel Inlet and bordering the main channel contain samphire flats and marshes important for eastern curlews and whimbrels, and this is one of the few places in the South-West where they can always be seen.

The Peel-Harvey Estuary provides an important nursery area for commercial species of fish such as sea mullet, yellow-eye mullet, cobbler and King George whiting.

The recommended area, together with Harvey Estuary (C51), Lakes McLarty and Meelup (C52), Yalgogup National Park (C54), Clifton MPA (C55) and McLarty MPA (C56), which includes privately owned freehold land, Land Act reserves (including a National Park) and State Forest, constitutes open space of regional significance (see Figure 1, Chapter 4). The area is of regional significance because of its high conservation and recreation values and its proximity to the Perth and Bunbury regions and neighbouring rural districts. Not all land under the various land tenures within the area has conservation and recreation as primary management objectives: to enhance these values the management structure of the area, together with that of C51, C52, C54, C55 and C56, requires coordination.

Recommendations:

C50.1 That our general recommendations on planning and management of Regional Parks be applied to this area (see Recommendations 15 and 16, Chapter 5).

C50.2 That the purpose of Reserve C8185 be amended to Conservation of Flora and Fauna and that the Reserve be vested in the W.A. Wildlife Authority.

C50.3 That the area of water surrounding Reserve C8185 at the entrance to Peel Inlet (as shown in Figure 37) be declared an Aquatic Reserve and vested in the W.A. Wildlife Authority.

C50.4 That Reserves B24036, C2707 and C7502 be cancelled and their respective areas added to Reserve B4990.

C50.5 That the area of water to the west of Reserve B4990 (as shown in Figure 37) be declared an Aquatic Reserve and vested in the W.A. Wildlife Authority.

C50.6 That, subject to Recommendation C50.5 being implemented, Reserve C28087 be cancelled and its land area added to Reserve B4990.
LANDS DEPARTMENT PUBLIC PLAN No.
380 A/40 & 380 D/40
DCE Ref. No H4(1,2,3 & 4)

Figure 2

17
4.2 Harvey Estuary

The recommended area is situated to the east of the Old Coast Road, south of Mandurah, and comprises Reserve A23756, for Conservation of Flora and Fauna, vested in the W.A. Wildlife Authority; Reserve A31922, for Recreation, vested in the Shire of Murray; Reserve C2990, for Recreation and Camping, vested in the Mandurah Road Board; Reserves C36126, for Drainage and Conservation of Flora and Fauna, and C860, for Water, both vested in the Minister for Water Resources; Reserve C2758, for Recreation, Reserve C17318, for Public Utility, and part of Reserves C15028 and C25391, both for Drainage, all not vested; the southern portion of the Harvey Estuary; and Murray Locations 77, 733, 1209, 1275, 1496, 2320, 2986 and parts of Murray Locations 437, 479, 613, 720 and 793, all privately owned freehold land (Figure 38).

The recommended area comes under the Peel Inlet Management Authority's Management Programme, the Mandurah and Districts Planning Study, and the Peel-Harvey Estuary Study which involves the examination of its water catchment area and the cause of the algal growth problem along with possible solutions.

The area provides one of the most important water-bird habitats in south-western Australia. The waters south of Herron Point support large numbers of grey teal, black duck, black swan, red-necked avocet, crested grebe and yellow-billed spoonbill. The delta of the Harvey River is important in late summer, when thousands of ducks congregate on its banks.

Reserve A23756, comprising a large area on the eastern side of Harvey Estuary, supports woodland and open-woodland of jarrah, marri, bull banksia and slender banksia, with some peppermint and Christmas tree. Several low-lying swampy areas contain low woodland of swamp banksia and Moonah paperbark. The vegetation of Reserve A31922 ranges from low open-forest to low open-woodland and is dominated by slender banksia with a mixture of sheoak, bull banksia, Christmas tree, marri and Moonah paperbark. Reserves C2990 and C860 are situated on the western side of the Estuary and are characterised by tall woodland and open-forest of tuart.

The Estuary provides an important nursery area for commercial species of fish such as sea mullet, cobbler and King George whiting.

The recommended area, together with Peel Inlet (C50), Lakes McLarty and Mealup (C52), Yalgorup National Park (C54), Clifton MPA (C55), and McLarty MPA (C56), which includes privately owned freehold land, Land Act reserves (including a National Park) and State Forest, constitutes open space of regional significance (see Figure 1, Chapter 4). The area is of regional significance because of its high conservation and recreation values and its proximity to the Perth and Bunbury regions and neighbouring rural districts. Not all land under the various tenures within the area has conservation and recreation as primary management objectives: to enhance these values the management structure for this area, together with that for C50, C52 and C54-C56, requires coordination.

Recommendations:

C51.1 That our general recommendations on planning and management of Regional Parks be applied to this area (see Recommendations 15 and 16, Chapter 5).

C51.2 That the southern portion of Reserve C2990 (see Figure 38) be excised, and that this portion be made a separate Reserve for Conservation of Flora and Fauna, and that the Reserve be vested in the W.A. Wildlife Authority.

C51.3 That the area of Harvey Estuary south of “Ford” (as shown in Figure 38) be declared an Aquatic Reserve and that the Reserve be vested in the W.A. Wildlife Authority.

C51.4 That the purpose of Reserve C860 be amended to Parkland and that the Reserve be vested in the Shire of Mandurah.

C51.5 That the purpose of Reserve C27528 be amended to Parkland and that the Reserve be vested in the Shire of Murray.

C51.6 That the purpose of Reserve C17318 be amended to Parkland and that the Reserve be vested in the W.A. Wildlife Authority.
The Peel-Harvey Estuary has a number of boating facilities situated along its Western foreshore, these include boat hire services, jetties and ramps.

Section 5.1 lists the location of boat hire services, while Section 5.2 discusses ramp facilities. The latter were examined for suitability of structure and location, and for the existence and suitability of adjacent accessory facilities.

5.1 BOAT HIRE SERVICES
- Falcon Yacht Hire (Novara)
- Estuary Caravan Park (Placid Waters)
- Caddadup (gazetted but not operated)
- Marjorie Dawe Store (Florida)
- Byrne's Paddle Boats (Florida, North side of ramp)
- Dawesville - Soltogio Point (gazetted but not operated)
- Park Ridge
- Sundowner Caravan Park

The location of each Hire Service is marked on the maps accompanying this study.
5.2 RAMP FACILITIES
(INCLUDES PICNIC FACILITIES)

There are nine ramps situated along the western foreshore, though this number excludes those which are located north of the Mandurah Traffic Bridge. The ramps have been provided by Marine and Harbours and the Local Shire, with approval from the Peel Inlet Management Authority. Two of the ramps included in this study are "unofficial" launching sites that have been established solely due to frequent use by people.

The major problem with almost all of the ramps in this area is that the water is extremely shallow, varying in depth from only 0.1m to 0.5m. The inadequate water depth causes many launching difficulties.

The features of each ramp and surrounding area are summarised in Table 5, and further details of each are given in subsequent discussion.
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Lanes</th>
<th>Type</th>
<th>Parking Lot Size &amp; Surface</th>
<th>Other Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novara Ramp</td>
<td>Novara</td>
<td>1</td>
<td>Limestone/crushed rock</td>
<td>Large (55)</td>
<td>+</td>
</tr>
<tr>
<td>*</td>
<td>South of Novara</td>
<td>1</td>
<td>Sand</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Placid Waters Ramp</td>
<td>Olive Road</td>
<td>2</td>
<td>Limestone/crushed rock</td>
<td>Small (4)</td>
<td>+</td>
</tr>
<tr>
<td>Wannanup Ramp</td>
<td>Wannanup</td>
<td>2</td>
<td>Limestone/crushed rock</td>
<td>Reasonable</td>
<td></td>
</tr>
<tr>
<td>Caddadup Ramp</td>
<td>Caddadup (North of Dawesville)</td>
<td>1</td>
<td>Concrete</td>
<td>Small Limestone surface</td>
<td></td>
</tr>
<tr>
<td>Dawesville Ramp</td>
<td>Dawesville</td>
<td>4</td>
<td>Concrete</td>
<td>Large (80)</td>
<td>+</td>
</tr>
<tr>
<td>Professional Fishermen's</td>
<td>South of Dawesville</td>
<td>1</td>
<td>Sand</td>
<td>Small Limestone surface</td>
<td></td>
</tr>
<tr>
<td>Ramp</td>
<td></td>
<td></td>
<td></td>
<td>Limestone surface</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>South of Professional</td>
<td>1</td>
<td>Sand</td>
<td>Grassed Area</td>
<td></td>
</tr>
<tr>
<td>Park Ridge</td>
<td>Park Ridge</td>
<td>1</td>
<td>Sand</td>
<td>Grassed Area</td>
<td></td>
</tr>
</tbody>
</table>

* Unofficial Launching Sites
Novara

This ramp is situated in an area of shallow water which makes launching of boats difficult. A 'channel' appears to have been dredged so as to deepen the water in the vicinity of the launching point. If the full width of the ramp can be used, there are four lanes available for launching. However, if launching is restricted to the channel, only one boat may be launched at a time. There is also a jetty adjacent to the ramp with a boat hire facility being operated from here. There are a few shade trees and barbeques for people who wish to have a picnic in the area.

Unofficial Ramp (South of Novara)

This unofficial launching site is situated between the Novara ramp and the Placid Waters ramp. The water is deeper here making the site more suitable for launching than the ramps on either side of it. There are several tracks leading to this area, however, these pass through privately owned land. There are also licensed fishing boats moored here suggesting that this site may be frequently used by the local fishermen.

Placid Waters

This ramp is situated beside a caravan park and in front of a residential area, therefore, use of this ramp would be quite heavy especially during holiday periods. A small grassed area with barbeques and toilets has been provided, however there is little shade. The water is extremely shallow, making launching difficult.

Wannanup

This area is also very shallow and apart from the ramp, the only other facility provided is a limestone carpark and a bin.

Caddadup

This small concrete ramp is located in an area of shallow water and has only sufficient room to launch one boat at a time. The area is grassed with shade trees, barbeques and bins provided for people who wish to have a picnic here. The bitumen carpark is unsuitable for cars with trailers.

Dawesville

This is the largest of all ramps examined. There are four lanes on this concrete ramp. The large limestone parking lot adjacent to the ramp is capable of accommodating approximately 80 cars with trailers. Situated on the other side of the ramp, is a large shady picnic area with barbeques, toilets, swings and bins. Opposite the picnic ground there is a shop which sells both food and petrol.
Professional Fishermen's Ramp (South Dawesville)

This sandy ramp is capable of launching two small boats at any one time, however, if the boat is large, then only one may be launched. It is solely for the use of Professional Fishermen and has padlocked gates to ensure that this restriction is enforced. A limestone carpark adjacent to the ramp provides for five cars with trailers.

Unofficial Ramp (South of Professional Fishermen's Ramp)

This is not an officially sanctioned ramp though it is obvious that boats are launched here. A small grassed area surrounds the sandy ramp which has room for the launching of only one small boat. It may be that this small ramp is used by the residents who live behind it.

Park Ridge

This sandy ramp has room for launching only one boat at a time. The water is shallow and there are small rocks in the area. Both factors would present a hazard to boating. The area has no carpark, though it appears that cars may use an adjacent grassed area for parking. There is also a picnic ground with barbeques, tables and bins. This area has been sectioned off by logs.
Urban developments along the Western foreshore are confined to six major nodal areas: Novara, Placid Waters, Pleasant Grove, Wannanup, Dawesville (Florida) and Park Ridge.

It is apparent from this study that the location of urban areas correlates highly with the occurrence of areas of disturbed natural vegetation. This suggests that pressures inherent with urban development are detrimental to the integrity of natural vegetation units. These pressures are many and varied, ranging from walking and launching of boats by hand over the bank to trail bike riding. Each can have an adverse effect on the foreshore either in an individual or cumulative sense.

The nature of urban development along the Estuary should remain nodal. This would serve to protect and preserve the general amenity of the area, it would also protect the viability of the remaining units of natural environment.
APPENDIX 1

MAP SERIES ACCOMPANYING PEEL-HARVEY ESTUARY LAND USE STUDY

BOOK 1

Series BG 32, 1:10 000
Numbers: 1.8, 1.7, 1.6, 1.5, 1.4, 1.3, 2.8, 2.7

1:25 000
Lake Clifton N.E. and Pt. N.W.

BOOK 2

Series BG 32, 1:2 000
05.40, 05.39, 05.38, 03.36, 02.35, 02.34,
02.33, 01.33, 01.32, 01.31, 01.30, 01.29,
01.28, 01.27

BOOK 3

Series BG 32, 1:2 000
01.26, 01.25, 02.25, 02.24, 02.23, 02.22,
03.20, 03.19, 03.18, 03.17, 03.16, 04.15,
04.14, 04.13, 04.12

All maps are colour coded to show:
Freehold Land
Reserves
Public Roads
Vacant Crown Land

Maps 1.7, 1.6, 1.5, 1.4 (Book 1) are accompanied by vegetation overlays.
APPENDIX 2

CERTIFICATES OF TITLE FOR
FORESHORE PROPERTIES WITH
HIGH WATER MARK BOUNDARIES
Certificate of Title for the following locations:

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murray</td>
<td>69</td>
</tr>
</tbody>
</table>
|          | 33   | 1
|          | 32   | 3
|          | 57   | 3
|          | 74   | 5
|          | 34   | 7
|          | 36   | 9
|          | 35   | 11
|          | 73   | 13
|          | 39   | 15
|          | 13   | 17
|          | 972  | 19
|          | 37   | 21
|          | 38   | 21
|          | 107  | 21
| WESTERN Side | 55 | 23
Certificate of Title

under "The Transfer of Land Act, 1933" as Vols. 14 

Michael Ross Kirkpatrick, Mandurah, School Teacher and Sidney Charles Cranke, Ballidu, Farmer, are now the proprietors in common in equal shares of an estate in fee simple subject to the easements and encumbrances notified hereunder in all that piece of land cultivated and coloured green on the map hereon containing forty-two acres and eleven perches or thereabouts, being Murray Location 60.

Dated the eleventh day of February One thousand nine hundred and fifty-eight.

Register of Titles

Transfer A 1820 to James William Hawkins, Archibald, and Edith Ethel Hawkins, Married Woman, both of 45 The Plains, Maidstone, as joint tenants. Registered 29th February 1958 at 10.50 am.

Application 546389 The registered proprietor is Edith Ethel Hawkins of 45 River Way, Manning, Widow, by survivorship. (James William Hawkins died 11-1-1935).

22nd April 1958
EASEMENTS AND ENCUMBRANCES REFERRED TO

[Handwritten text and signatures]

Community 70/197
Landmark 70/197

Mortgage of 1977 to the Federal Bank of Australia Limited. Registered 22nd April, 1979 at 9.49 a.m., Certificate of Title
Certificate of Title

under "The Transfer of Land Act, 1893" as Vol. 16, Sa. 11.

Raymond George Buckeridge, Butler and Margaret Bowman Buckeridge, his wife, both of Coast Road, Mandurah, are now the proprietors as joint tenants of an estate in fee simple subject to the easements and encumbrances notified hereunder in all those pieces of land delineated and coloured green on the map hereon containing in the aggregate thirty acres three roods and ten perchs or thereabouts, being Murray Locations 32, 57 and portion of Murray Location 34.

Dated the twelfth day of August One thousand nine hundred and sixty-four.

Registrar of Titles.
Certificate of Title

under "The Transfer of Land Act, 1893" as amended.

Alexander Investments Pty. Ltd., having its office at Lot 30 North Lake Road, Kelvington, is now the proprietor of an estate in the above subject to the easements and encumbrances notified hereunder in all that piece or parcel delineated and coloured green on the map hereto containing thirty-five acres two roods and fifteen perches or thereabouts, being part of Survey Location 74.

Dated the first day of December One thousand nine hundred and sixty-four.

Registrar of Titles.

Transfer to William March Russell, Mark Russell, Andrew J. Thompson, Russell and
Albert Robert Allen Russell, by conveyance all of same to the abovementioned
and there to be known as United Owners, forthwith to become an equal
shareholder. Registration 5th January 1965 at 9:30 am

For encumbrances and other matters affecting the land see back.
EASEMENTS AND ENCUMBRANCES REFERRED TO

Mortgage 1972 59 to The National Bank of Agriculture Limited

Registered

Certificate of Title

Vol. 1291  Fd. N° 313
Certificate of Title

UNDER THE "TRANSFER OF LAND ACT, 1893" AS AMENDED

Cyril Harley Johnston, Ves Driver, and Ruth Verly Evran Johnston, Married Woman, both
of 12 Mayfair Street, East Perth, are now the proprietors as joint tenants of an
estate in fee simple subject to the easements and encumbrances notified hereunder in
all that piece of land delineated and coloured green on the map hereto containing
nine acres three roods and twenty-four perches or thereabouts, being portion of
Murray Location 24.

Dated the 13th day of April, 1967.
CERTIFICATE OF TITLE

VOL. 23  FOL. 32 A
Certificate of Title

UNDER THE "TRANSFER OF LAND ACT, 1897" AS AMENDED

Sheila Mary Goldie Sutton of Pinjerr, Widow, is now the proprietor of an estate to
in fee simple subject to the easements and encumbrances notified hereunder in all that
piece of land delineated and coloured green on the map hereon containing nine acres
three roods and thirty-four perches or thereabouts, being portion of Murray Location
36.

Dated the 17th day of February, 1967.

Registrar of Titles

Transfer 57/1967 to John Romer, Carpenter and Patricia Susan, his wife, both of Rivervale Estate, via Mandurah,
as joint tenants. Registered 7th January 1977 at 10.59 a.m.

Transfer 57/1976 to Kevin William Hutchings, Builder and Carol Joyce Hutchings, Married Woman, both of 87
21st Road, Arndale. Registered 15th July, 1979 at 12.37 p.m.

For encumbrances and other matters affecting the land see back
EASEMENTS AND ENCUMBRANCES REFERRED TO

Withdrawn

Deed 61/69, Lodged 19-11-1969 at 10.00 a.m.

Withdrawal Deed of Covenant 67/69, Lodged 7-1-1977 at 10.59 a.m.

CERTIFICATE OF TITLE

VOL. 18  FOL. 205A
Certificate of Title


Kerrie Patricia Hines of 9 Walter Street, Claremont, Married Woman, is now the proprietor of an estate in fee simple subject to the easements and encumbrances notified hereunder in all that piece of land described and coloured green on the map hereto containing nine acres two roods and twenty-seven perches or thereabouts, being portion of Murray Location 55.

Dated the twenty-seventh day of May One thousand nine hundred and sixty-four.

Registrar of Titles.

Transfer 3264/64 to Kerrie Patricia Hines of 49 Saint George Terrace, Perth. Registered 6 December 1961 at 9:200

See encumbrances and other matters affecting the land see back.
Certificate of Title

under "The Transfer of Land Act, 1893" (as Vol. 14, No. 2).

Herbert James Coath, farmer and Jane Elizabeth Coath, his wife, both of Mandurah and Herbert Edward Annette of Canning Road, Walliston, Orchardist, are now the proprietors in common in the shares as set out hereunder of an estate in fee simple subject to the easements and encumbrances mentioned hereunder in all that piece of land delineated and coloured green on the map hereto containing forty acres or thereabouts, being Murray Location 73.

To be held by them in the following shares, that is to say:

To the said Herbert James Coath and Jane Elizabeth Coath one undivided half share as joint tenants and to the said Herbert Edward Annette the remaining one undivided half share.

Scale showing direction.

Dated the twenty-seventh day of September One thousand nine hundred and fifty-five.

O. C. C. Lundeman
Register of Titles.
EASEMENTS AND ENCUMBRANCES REFERRED TO

Mortgage 2467/51 to The National Bank of Australasia Limited. Registered 21st October 1943 at 2.35 pm.

Discharge 1921 of Mortgage 2467/51. Registered 19th March 1948 at 7.30 pm.

Mortgage 12815 to The Northern Bank Limited. Registered 19th March 1948 at 9.55 am.

Discharge 130233 of Mortgage 12234/53. Registered 16th June 1958 at 9.30 am.

Mortgage 13139 to Elizabeth Smith from Violet Edith Henderson of 19 Cannonby Road, Hobart. Registered 25th September 1965 at 8.50 am.

Discharge 12019 of Mortgage 12234. Registered 25th February 1965 at 9.50 am.

Mortgage 12641 to Violet Edith Henderson of 19 Cannonby Road, Hobart. Registered 25th February 1965 at 9.50 am.

Application A386195. On the 20th December 1971 Violet Edith Henderson, the above mortgagee, died and on the 1st February 1972, executor of his will, H. W. Henderson, was granted probate by Queen's Bench of the Supreme Court of Tasmania, Executor, pursuant to the Succession Act, 1972.


CERTIFICATE OF TITLE
Certificate of Title

Undert the "Transfer of Land Act, 1893" as amended

Alice Louise Watkins, married woman, and Keith Watkins, slaughter man, both of 5 Loton Avenue, Midland Junction, are now the proprietors as joint tenants of an estate in fee simple subject to the easements and encumbrances notified hereunder in all that piece of land delineated and coloured green on the map herein containing ten acres, one rood and twenty-three perches or thereabouts, being Murray Location 39.

Dated the 18th day of April, 1908.

[Signature]

Registrar of Titles.

[Stamp]

[Details on the bottom left corner]
EASEMENTS AND ENCUMBRANCES REFERRED TO

**Mortgage 33265** to S. J. Slack, Registered 1st December 1917 at 9 am.

**Discharged**

**Mortgage 83121** of Mortgage 33265, Registered 1st October 1917 at 9:35 am.

**Discharged**

**Mortgage 89262** to H. Slack, Registered 1st December 1917 at 9 am.

**Discharged**

**Mortgage 827062** of Mortgage 89262, Registered 12th June 1970 at 10:15 am.

**Discharged**

**Mortgage 827064** to Bank of Montreal, Registered 19th December 1917 at 10:15 am.

**Discharged**

**Mortgage 892764** of Mortgage 827064, Registered 31st December 1917 at 10:15 am.

**Discharged**

CERTIFICATE OF TITLE

VOL. 80 FOL. 33A
Certificate of Title

Under the "Transfer of Land Act, 1893" as amended

I certify that the person described in the first schedule hereto is the registered proprietor of the undermentioned estate in the undermentioned land subject to the easements and encumbrances shown in the second schedule hereto.

Dated 10th November, 1983

Estate and land referred to

Estate in fee simple in portion of each of Murray Locations 40, 41 and 62 and being Lot 13 on Plan 14400, delineated and coloured green on the map in the Third Schedule hereto.

First Schedule (continued overleaf)

Her Majesty Queen Elizabeth the Second.

Second Schedule (continued overleaf)

Nil

Third Schedule

Scale 1:5000

All entries are subject to subsequent endorsement.
Elizabeth the Second, by the Grace of God, of Great Britain, Ireland, and the British Dominions beyond the Seas, Queen, Defender of the Faith, to all whom these Presents shall come, Greet.

Know Ye that We, by our said Grace, do, by these Presents, order, grant, and give unto the said

VICTOR ROY ALLOM OF PINKARRO FARMER THE SURVIVING EXECUTOR OF THE WILL OF JOSEPH COOPER

decedent,

seller called the Creator, the understander, and as much of the land as is below the natural surface to a depth of 200 feet of ALL THAT Tract or Parcel of Land Situate in the District of

MURRAY

Conveyed and Situated in the Municipality of OR\(\)iginal CITY, in the

STATE OF WESTERN AUSTRALIA, and to the

VICTOR ROY ALLOM OF PINKARRO FARMER THE SURVIVING EXECUTOR OF THE WILL OF JOSEPH COOPER

decedent,

seller called the Creator, the understander, and as much of the land as is below the natural surface to a depth of 200 feet of ALL THAT Tract or Parcel of Land Situate in the District of

MURRAY

Conveyed and Situated in the Municipality of OR\(\)iginal CITY, in the

STATE OF WESTERN AUSTRALIA, and to the
Certificate of Title

under "The Transfer of Land Act, 1892" as amended.

Michael Kenneth Sutton of Pinjarra, Farmer, is now the proprietor of an estate in
few simple subject to the easements and encumbrances notified hereunder in all that
piece of land delineated and coloured green on the map hereon containing sixty acres
three roods twenty-nine and four-tenths perches or thereabouts, being Murray Locations
37, 38 and 107 the whole of the said land being the subject of Plan 5359.

Dated the sixteenth day of November One thousand nine hundred and fifty-four.

[Signature]

Registrar of Titles.
CERTIFICATE OF TITLE

under "The Transfer of Land Act, 1895" (c. 85, s. 2).

John Winnington, husband of Tramier, farmer, is now the proprietor of an estate, in the name subject to
the conditions and encumbrances notified hereunder in all that piece of land delineated and coloured green
on the map hereto, containing twenty acres or thereabouts, being Murray Location 55.

Dated the twenty-fifth day of June one thousand nine hundred and fifty-four.

Registrar of Titles.

Transfer to W. M. Giddins on the 11th day of September 1912 at 2:15 p.m.

For encumbrances and other matters affecting the land see back.
EASEMENTS AND ENCUMBRANCES REFERRED TO

[Signature]

[Stamp]

[Stamp]

CERTIFICATE OF TITLE

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