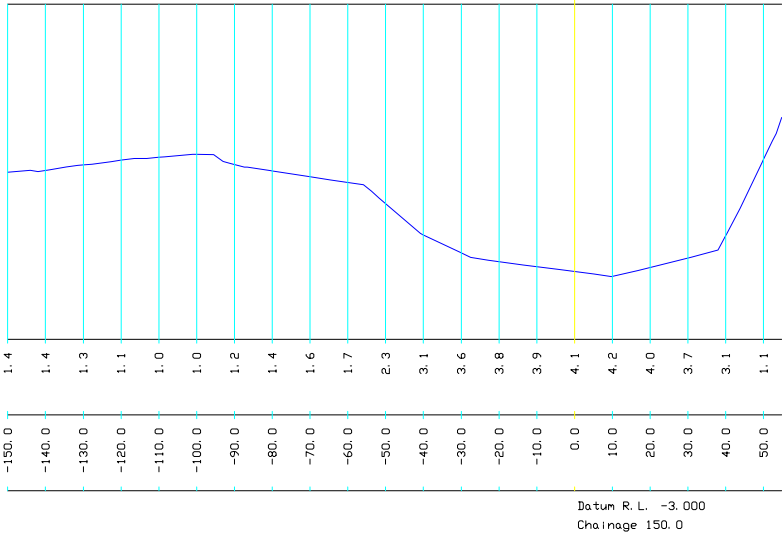
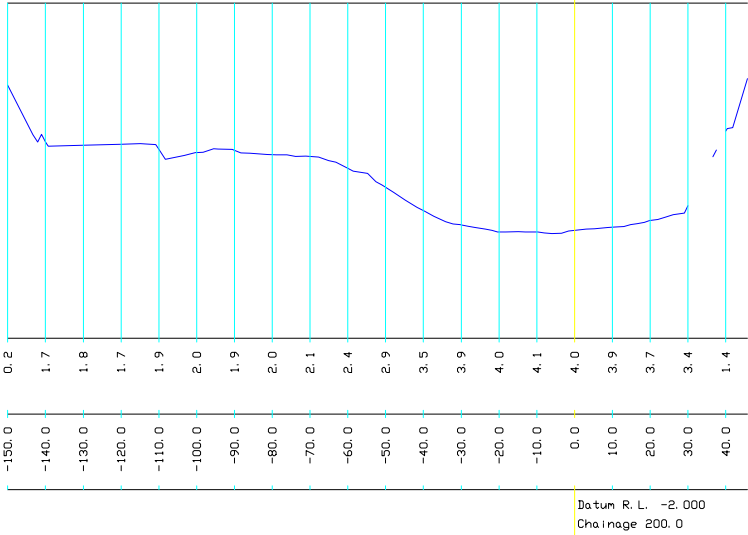
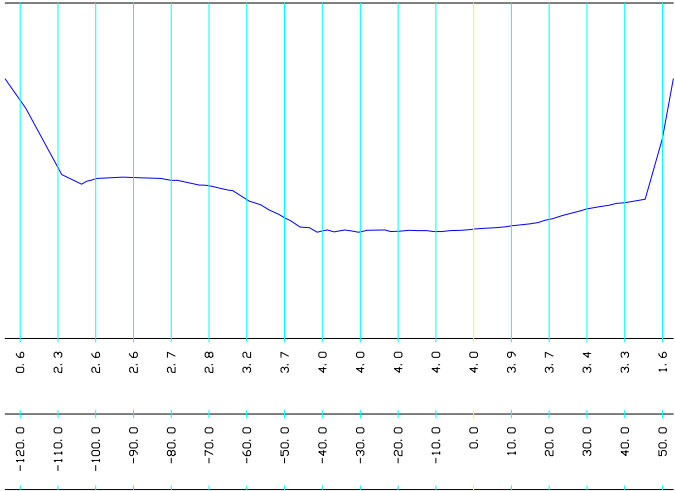


Sections of route 1 between 0.0 and 250.0

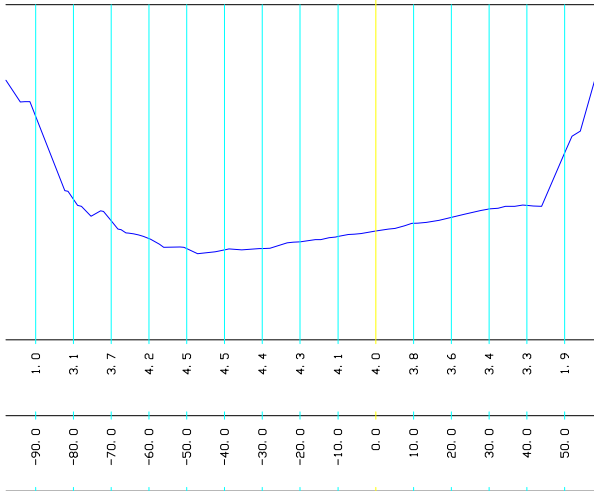
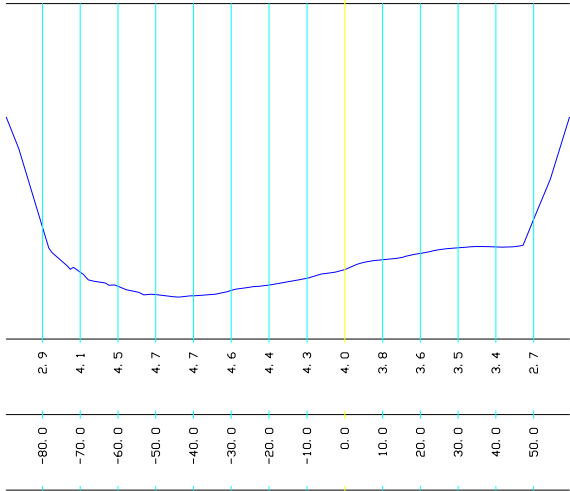
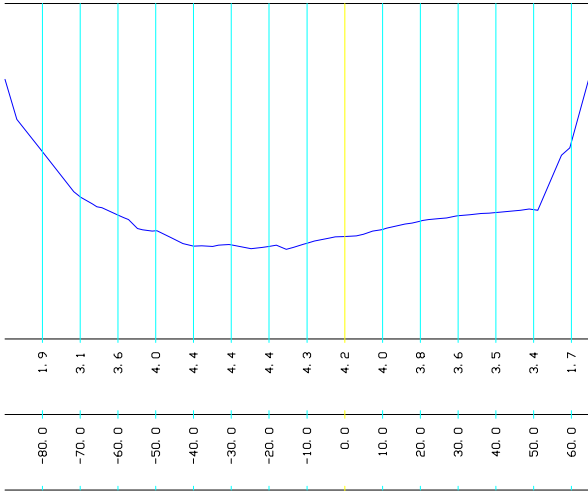
Hz scale 1:1000 Vt scale 1:100



Sheet 1 of 1

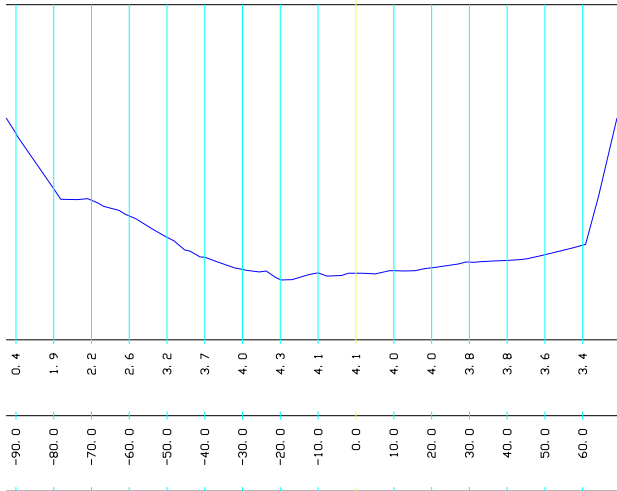
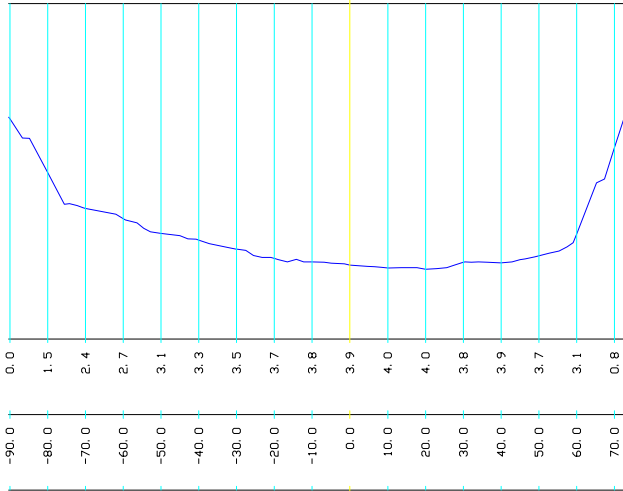
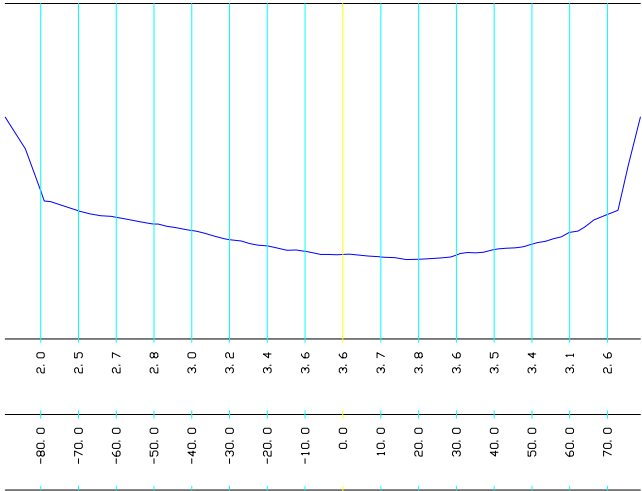
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1.	NAVIGATION SYSTEM: TRIMBLE RTK/DIFFERENTIAL GPS ORIGIN: PM 79477 (450506.199mE 6469859.221mN 8.289m AHD).			BATHYMETRY & RIVERBED CONTOURS  MANNING RIVER - TAREE	HYDROGRAPHIC SURVEYS PTY. LTD. <small>ABN 21-114-968-799</small>  21 LYNWOOD ST., BLAKKHURST, NSW, 2221. 11/39 DUKE ST., STUART PARK, NT, 0820. <small>PH:61-2-95467536 FX:61-2-95464768 Mob:0412113921 PH:61-8-89422611 FX:61-8-89423611</small>	NEW SOUTH WALES MANNING RIVER PITT STREET MARITIME ASSESSMENT RIVER SURVEY FOR MAUNSELL AUSTRALIA PTY LTD	DRAWING NO:  <i>H801-004</i>  SHEET 1 of 1.  REVISION NO:  CONTRACT NO:																							
2.	SOUNDINGS IN METRES & DECIMETRES REDUCED TO BELOW AUSTRALIAN HEIGHT DATUM (AHD). TIDAL DATA: OBSERVED TIDE POLE & RTKDGPS DATA.																													
3.	CONTOURS AT 0.5m INTERVALS RELATIVE TO DATUM.																													
4.																														
5.																														
					<table><tr><td>DATE</td><td>24th OCTOBER, 2007.</td><td>PROJECTION</td><td>UNIVERSAL TRANSVERSE MERCATOR</td></tr><tr><td>SURVEYOR</td><td>GW</td><td>SPHEROID</td><td>WORLD GEODETIC SYSTEM 1984.</td></tr><tr><td>DRAWN</td><td>GW</td><td>DATUM</td><td>GDA94 - MGA94</td></tr><tr><td>HOR SCALE</td><td>1:1000</td><td>GRID</td><td>METRES</td></tr><tr><td>VERT SCALE</td><td>1:100</td><td>ZONE</td><td>56. (DM 153°)</td></tr><tr><td>VERT DATUM</td><td>AUSTRALIAN HEIGHT DATUM (AHD)</td><td>2nd GRID</td><td>-</td></tr></table>		DATE	24th OCTOBER, 2007.	PROJECTION	UNIVERSAL TRANSVERSE MERCATOR	SURVEYOR	GW	SPHEROID	WORLD GEODETIC SYSTEM 1984.	DRAWN	GW	DATUM	GDA94 - MGA94	HOR SCALE	1:1000	GRID	METRES	VERT SCALE	1:100	ZONE	56. (DM 153°)	VERT DATUM	AUSTRALIAN HEIGHT DATUM (AHD)	2nd GRID	-
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VERT SCALE	1:100	ZONE	56. (DM 153°)																											
VERT DATUM	AUSTRALIAN HEIGHT DATUM (AHD)	2nd GRID	-																											



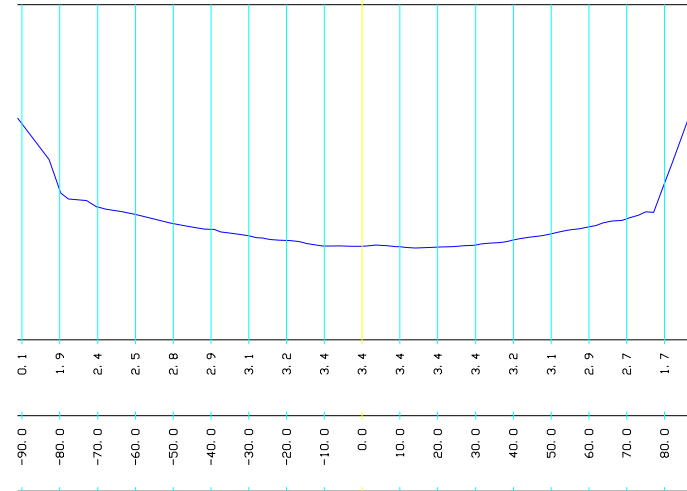
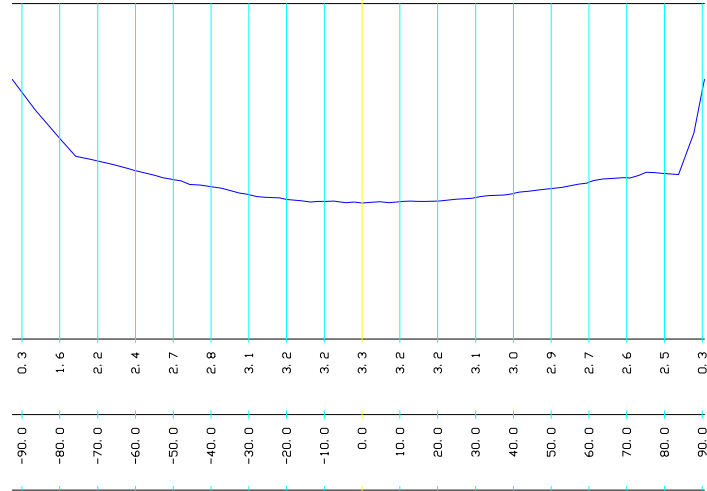
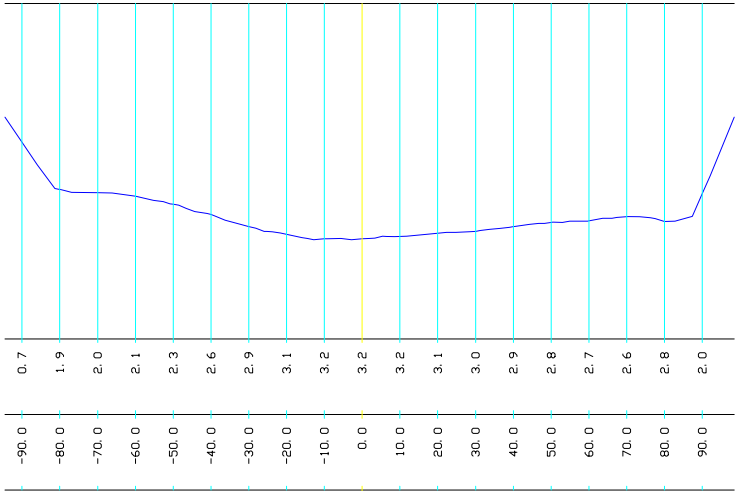
Sections of route 1 between 300.0 and 2254.8

Hz scale 1:1000 Vt scale 1:100



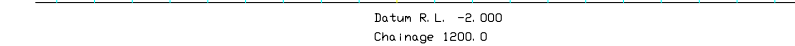
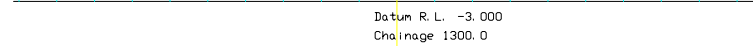
Sheet 1 of 5

This sheet between 300.0 and 700.0

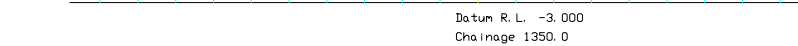
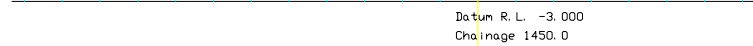


1.	NAVIGATION SYSTEM: TRIMBLE RTK/DIFFERENTIAL GPS ORIGIN: PM 794777 (450506, 199mE, 6469859, 221mN) B. 289m AHD.			<div><div>BATHYMETRY &amp; RIVERBED CONTOURS</div><div>MANNING RIVER - TARBE</div></div>	<div><div>HYDROGRAPHIC SURVEYS PTY. LTD.</div><div>21 LYNWOOD ST., BLAKEHURST, NSW, 2221. 11/39 DUKE ST., STUART PARK, NT, 0820.</div><div>PH:61-2-95467536 FX:61-2-95464768 Mob:0412113921</div><div><div><div>DATE</div><div>24th OCTOBER, 2007.</div></div><div><div>SURVEYOR</div><div>GW</div></div><div><div>DRAWN</div><div>GW</div></div><div><div>HOR SCALE</div><div>1:1000</div></div><div><div>VERT SCALE</div><div>1:100</div></div><div><div>VERT DATUM</div><div>AUSTRALIAN HEIGHT DATUM (AHD)</div></div></div><div><div>PROJECTION</div><div>UNIVERSAL TRANSVERSE MERCATOR</div></div><div><div>SPHEROID</div><div>WORLD GEODETIC SYSTEM 1984.</div></div><div><div>DATUM</div><div>GDA94 - MGA94</div></div><div><div>GRID</div><div>METRES</div></div><div><div>ZONE</div><div>56. (CM 153°)</div></div><div><div></div><div>2nd GRID</div></div></div>
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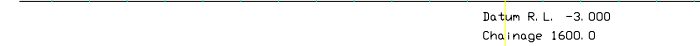


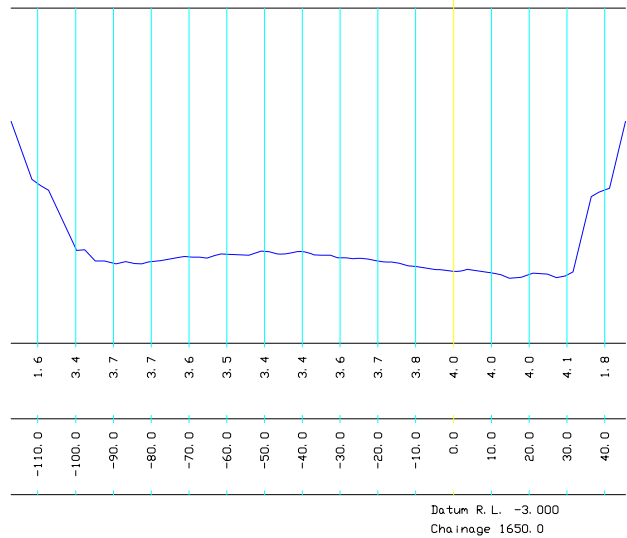
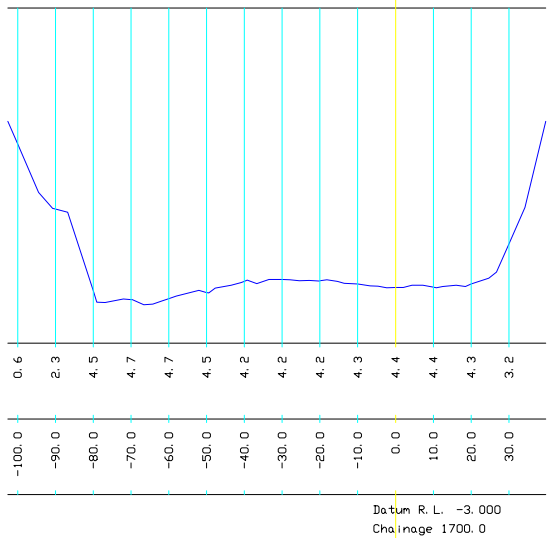
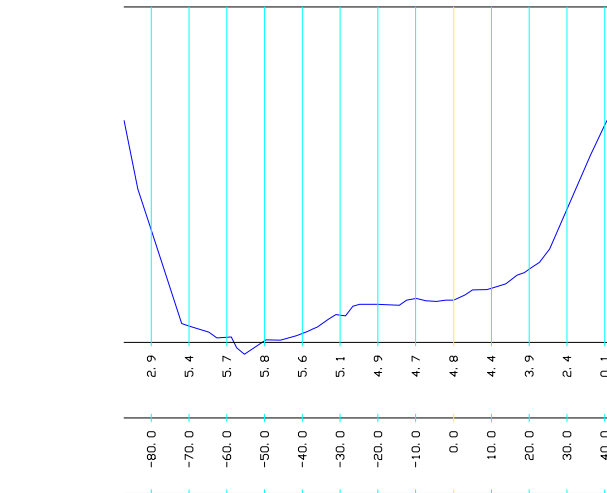


Hz scale 1: 1000      Vt scale 1: 100



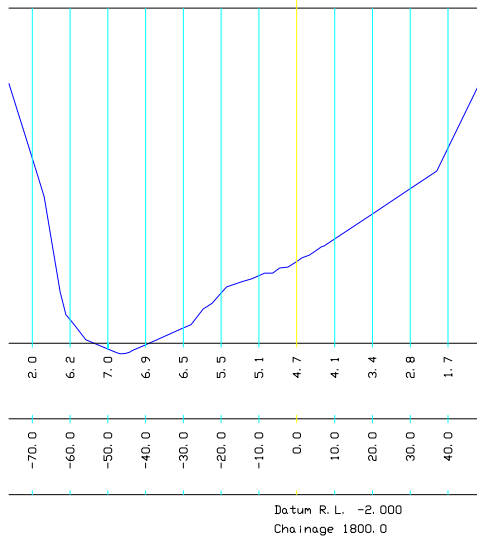
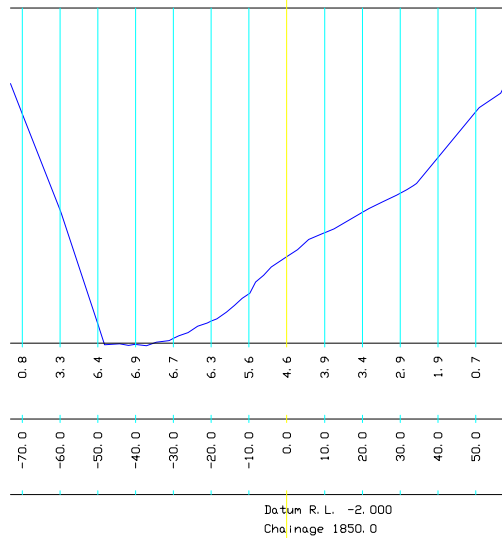
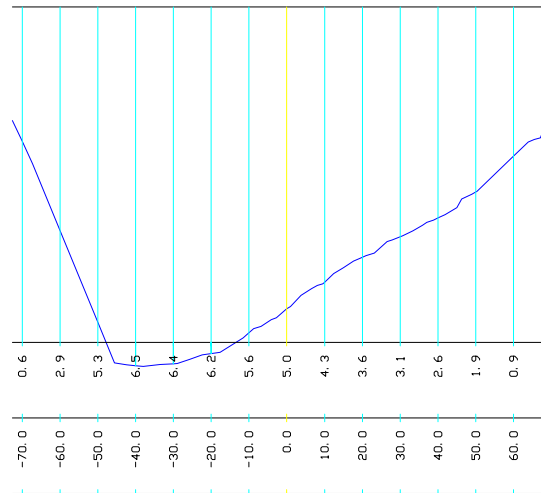
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[illegible]



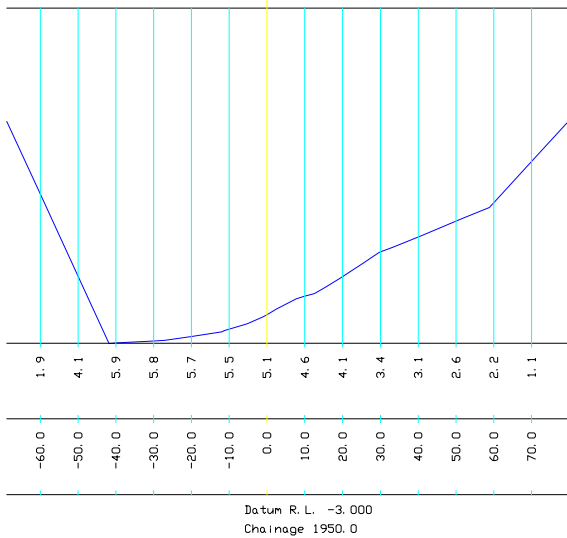
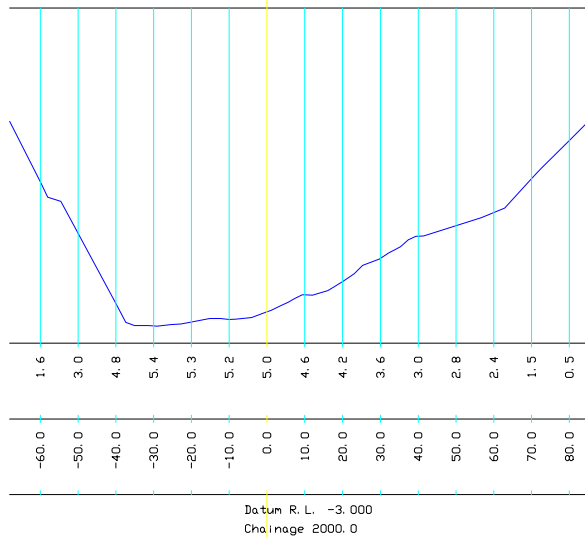
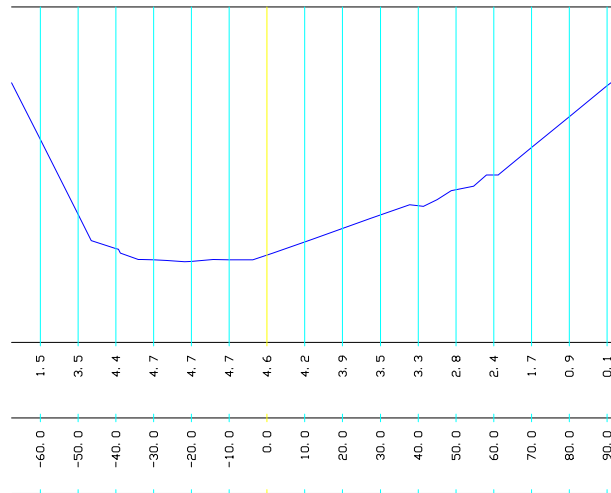
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Hz scale 1: 1000      Vt scale 1: 100

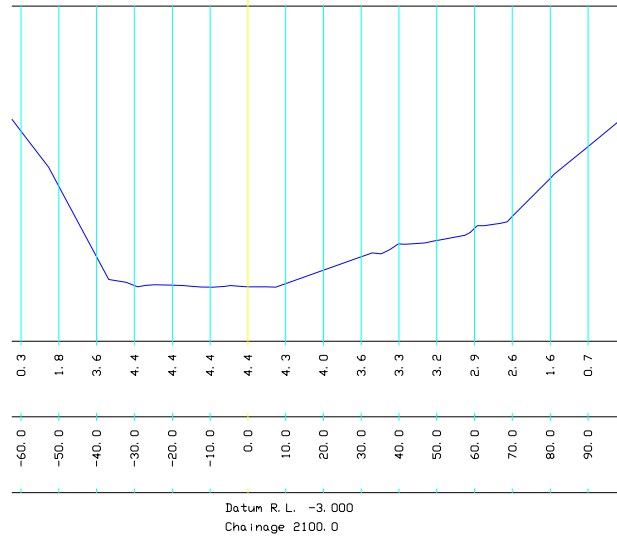


Sheet 4 of 5

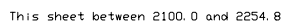
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HOR SCALE	1: 1000		GRID	METRES																										
VERT SCALE	1: 100	ZONE	56. (OM 153°)																											
VERT DATUM	AUSTRALIAN HEIGHT DATUM (AHD)	Grid	GRID																											
2. SOUNDINGS IN METRES & DECIMETRES REDUCED TO BELOW AUSTRALIAN HEIGHT DATUM (AHD). TIDAL DATA- OBSERVED TIDE POLE & RTKGPS DATA.																														
3. CONTOURS AT 0.5m INTERVALS RELATIVE TO DATUM .																														
4.																														
5.																														



Hz scale 1: 1000      Vt scale 1: 100



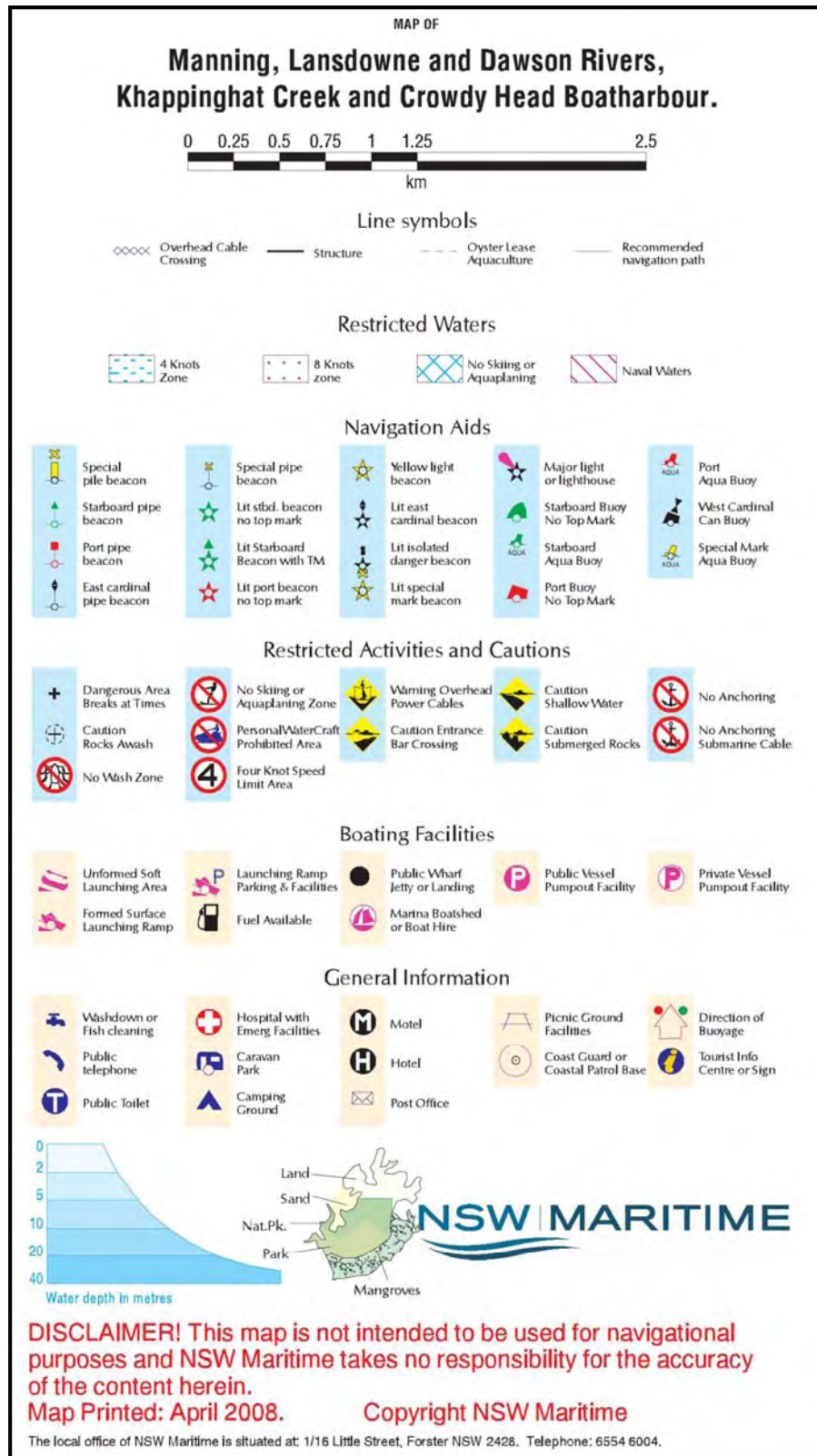
DRAWING NO:  
*H801-009*  
SHEET 1 of 1.  
REVISION NO:  
CONTRACT NO:

## Appendix D Maritime facilities in Taree LGA



## Appendix D Maritime Facilities in Taree LGA

### Enlarged Legend

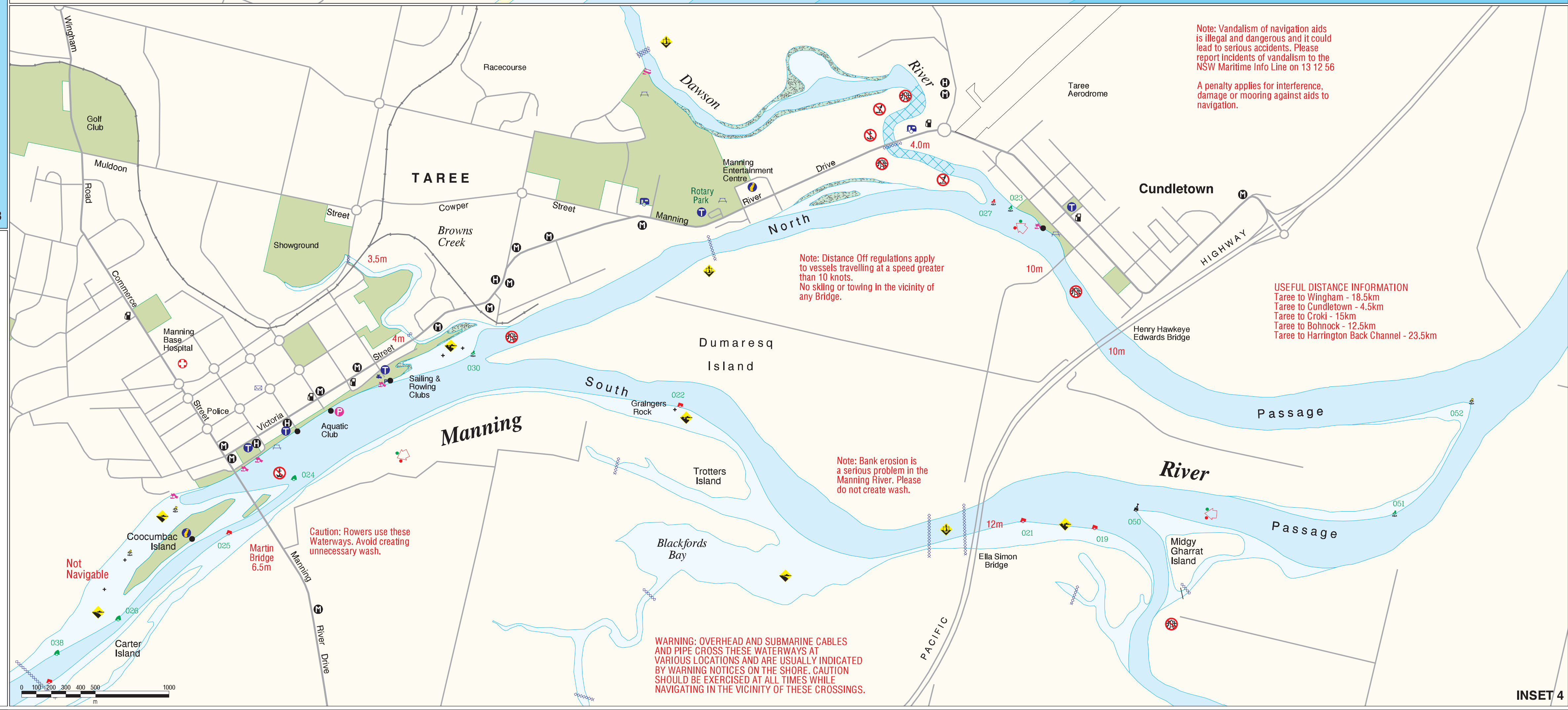
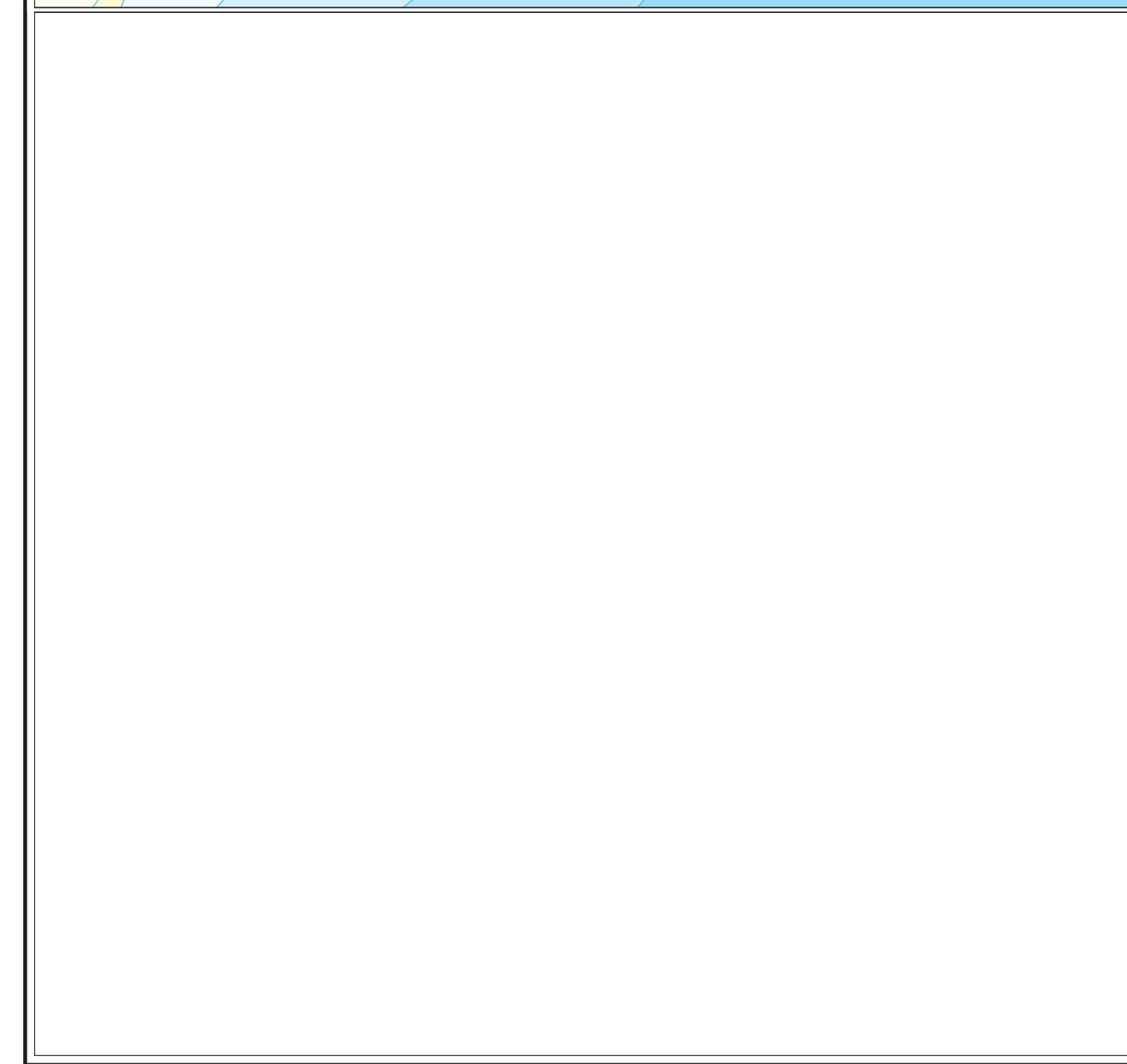
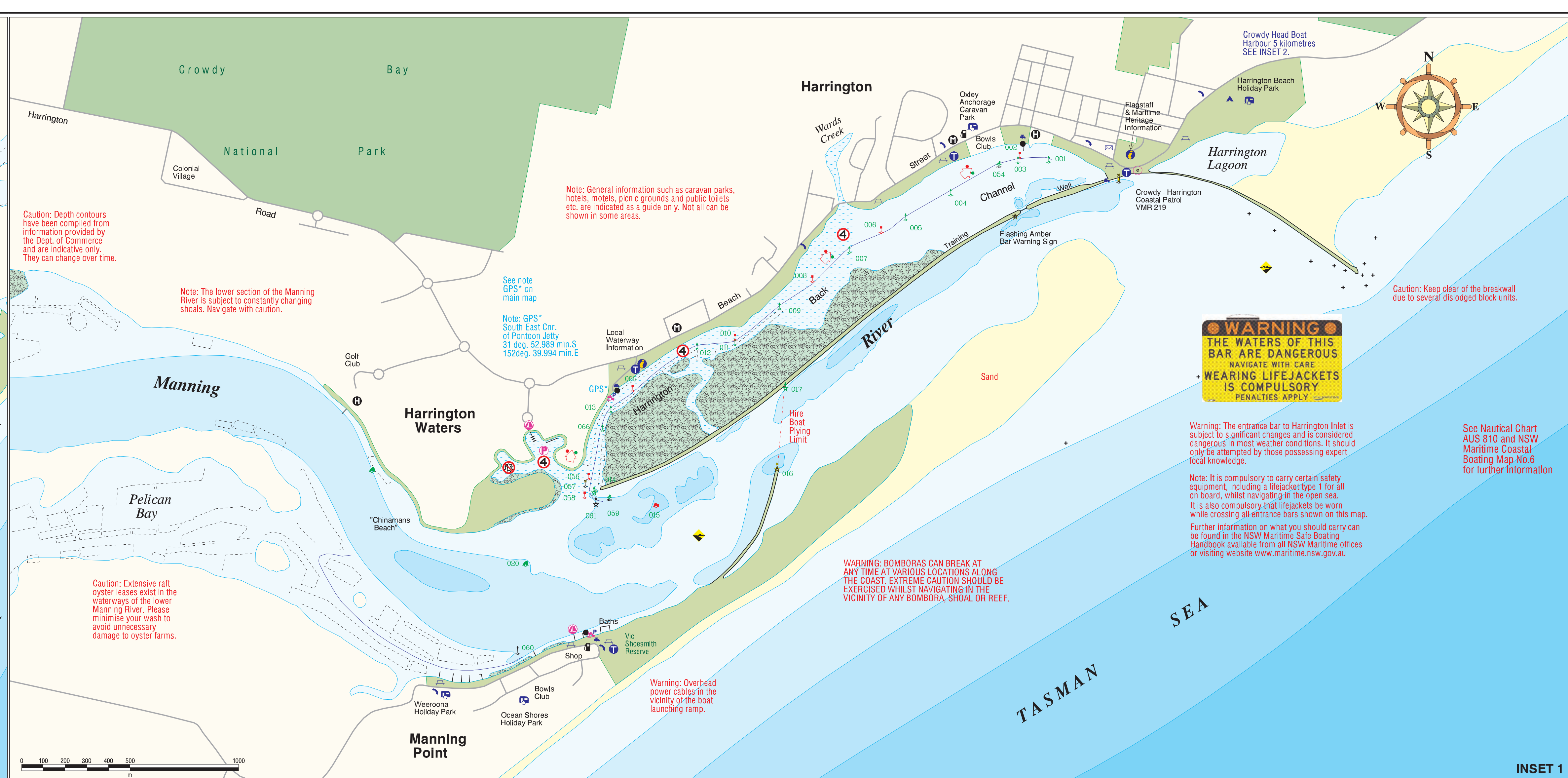
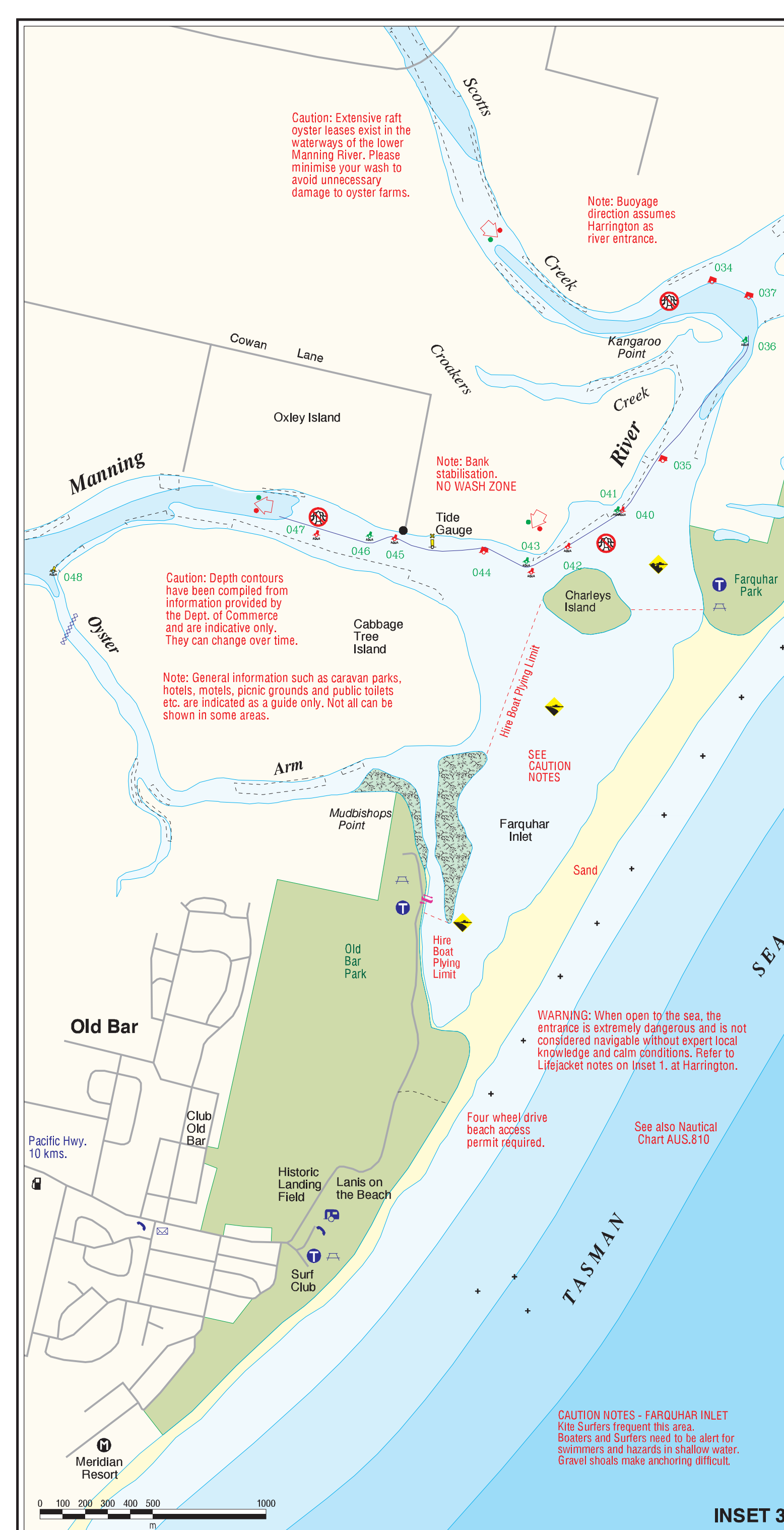


Map source: <http://www.waterways.nsw.gov.au/maps.html>



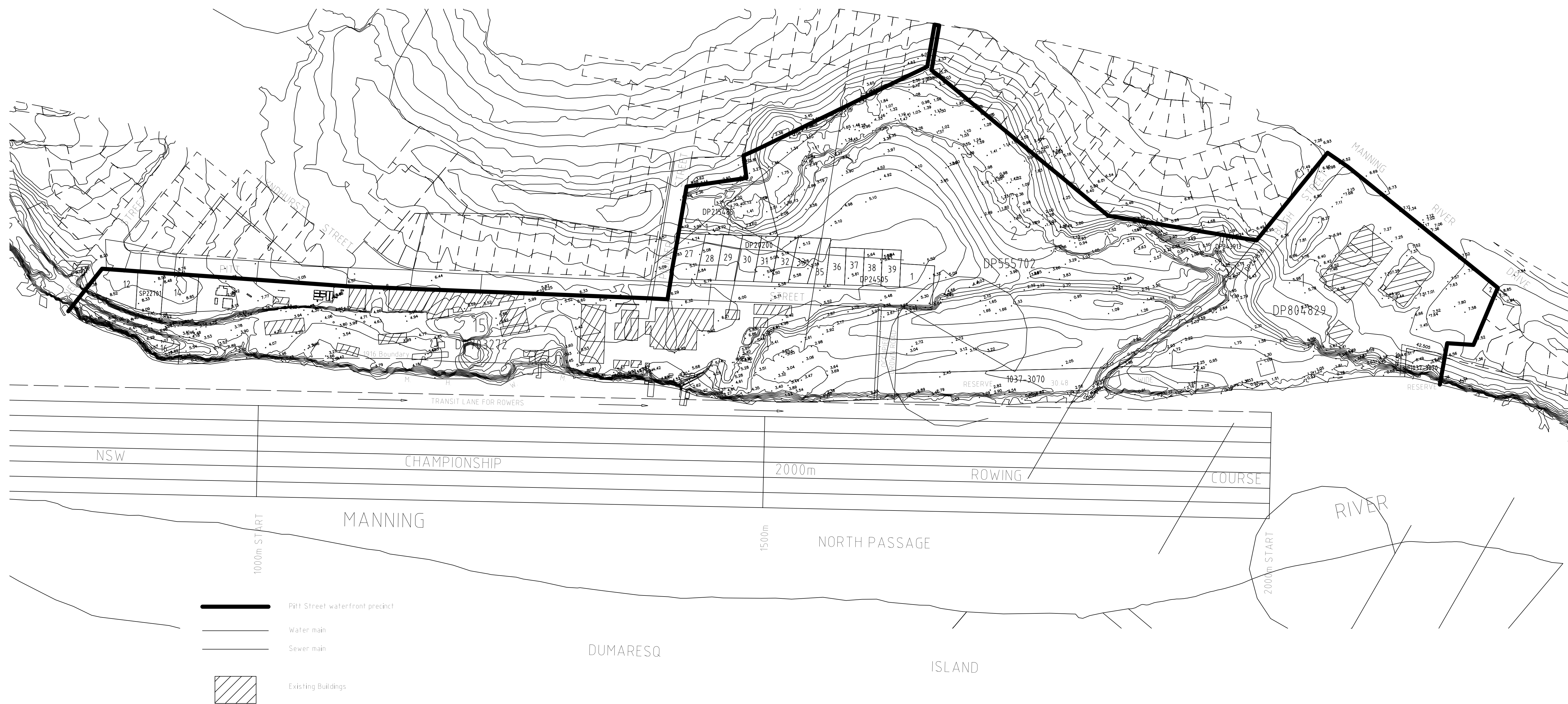








## Appendix E Pitt Street survey



City Shire		G.T.C.C.		<table border="1"> <tr> <td>Drawn</td> <td>N.G.</td> <td rowspan="4">LEVEL BOOK</td> <td rowspan="4">  <b>McGLASHAN &amp; CRISP Pty Ltd</b>  CONSULTING SURVEYORS  117 VICTORIA STREET, TAREE 2430. Ph: 02 65521566. DX 7009  EMAIL: mcgrisp@midcoast.com.au </td> <td rowspan="4">CLIENT GREATER TAREE CITY COUNCIL</td> <td rowspan="4">TITLE PLAN SHOWING DETAIL AND LEVELS OVER LOTS 27,28,29,30,31 &amp; 32 DP20200, LOTS 33,35,36,37,38 &amp; 39 DP24504, LOTS 1 &amp; 2 DP215485, LOT 1 DP243828, LOT 1 DP343913, LOTS 1 &amp; 2 DP555702, LOTS 12,14,15 &amp; 16 DP703272, LOTS 1 &amp; 2 DP804829 &amp; SP22701</td> <td rowspan="4">FILE No. F618</td> <td rowspan="4">JOB No. 11206</td> </tr> <tr> <td>Checked</td> <td>G.A.C.</td> </tr> <tr> <td>Date</td> <td>21 SEP '07</td> <td>COMPUTER FILE</td> </tr> <tr> <td>Scale</td> <td>1:2000 @ A1</td> <td>PLANPITST.dwg</td> </tr> </table>		Drawn	N.G.	LEVEL BOOK	 <b>McGLASHAN &amp; CRISP Pty Ltd</b> CONSULTING SURVEYORS 117 VICTORIA STREET, TAREE 2430. Ph: 02 65521566. DX 7009 EMAIL: mcgrisp@midcoast.com.au	CLIENT GREATER TAREE CITY COUNCIL	TITLE PLAN SHOWING DETAIL AND LEVELS OVER LOTS 27,28,29,30,31 & 32 DP20200, LOTS 33,35,36,37,38 & 39 DP24504, LOTS 1 & 2 DP215485, LOT 1 DP243828, LOT 1 DP343913, LOTS 1 & 2 DP555702, LOTS 12,14,15 & 16 DP703272, LOTS 1 & 2 DP804829 & SP22701	FILE No. F618	JOB No. 11206	Checked	G.A.C.	Date	21 SEP '07	COMPUTER FILE	Scale	1:2000 @ A1	PLANPITST.dwg	<table border="1"> <tr> <td>DATUM</td> <td>AZIMUTH</td> <td rowspan="4">SHEET No.</td> </tr> <tr> <td>A.H.D.</td> <td>M.G.A.</td> </tr> </table>	DATUM	AZIMUTH	SHEET No.	A.H.D.	M.G.A.
Drawn	N.G.	LEVEL BOOK	 <b>McGLASHAN &amp; CRISP Pty Ltd</b> CONSULTING SURVEYORS 117 VICTORIA STREET, TAREE 2430. Ph: 02 65521566. DX 7009 EMAIL: mcgrisp@midcoast.com.au	CLIENT GREATER TAREE CITY COUNCIL	TITLE PLAN SHOWING DETAIL AND LEVELS OVER LOTS 27,28,29,30,31 & 32 DP20200, LOTS 33,35,36,37,38 & 39 DP24504, LOTS 1 & 2 DP215485, LOT 1 DP243828, LOT 1 DP343913, LOTS 1 & 2 DP555702, LOTS 12,14,15 & 16 DP703272, LOTS 1 & 2 DP804829 & SP22701	FILE No. F618	JOB No. 11206																				
Checked	G.A.C.																										
Date	21 SEP '07													COMPUTER FILE													
Scale	1:2000 @ A1							PLANPITST.dwg																			
DATUM	AZIMUTH	SHEET No.																									
A.H.D.	M.G.A.																										

## Appendix F 1978 flood images





PETERS WHARF AND PUMP STATION LOOKING UPSTREAM



NORTHERN END OF PITT STREET







L.A. DRURY HAULAGE CONTRACTOR'S DEPOT & CALTEX DEPOT, PITT STREET.

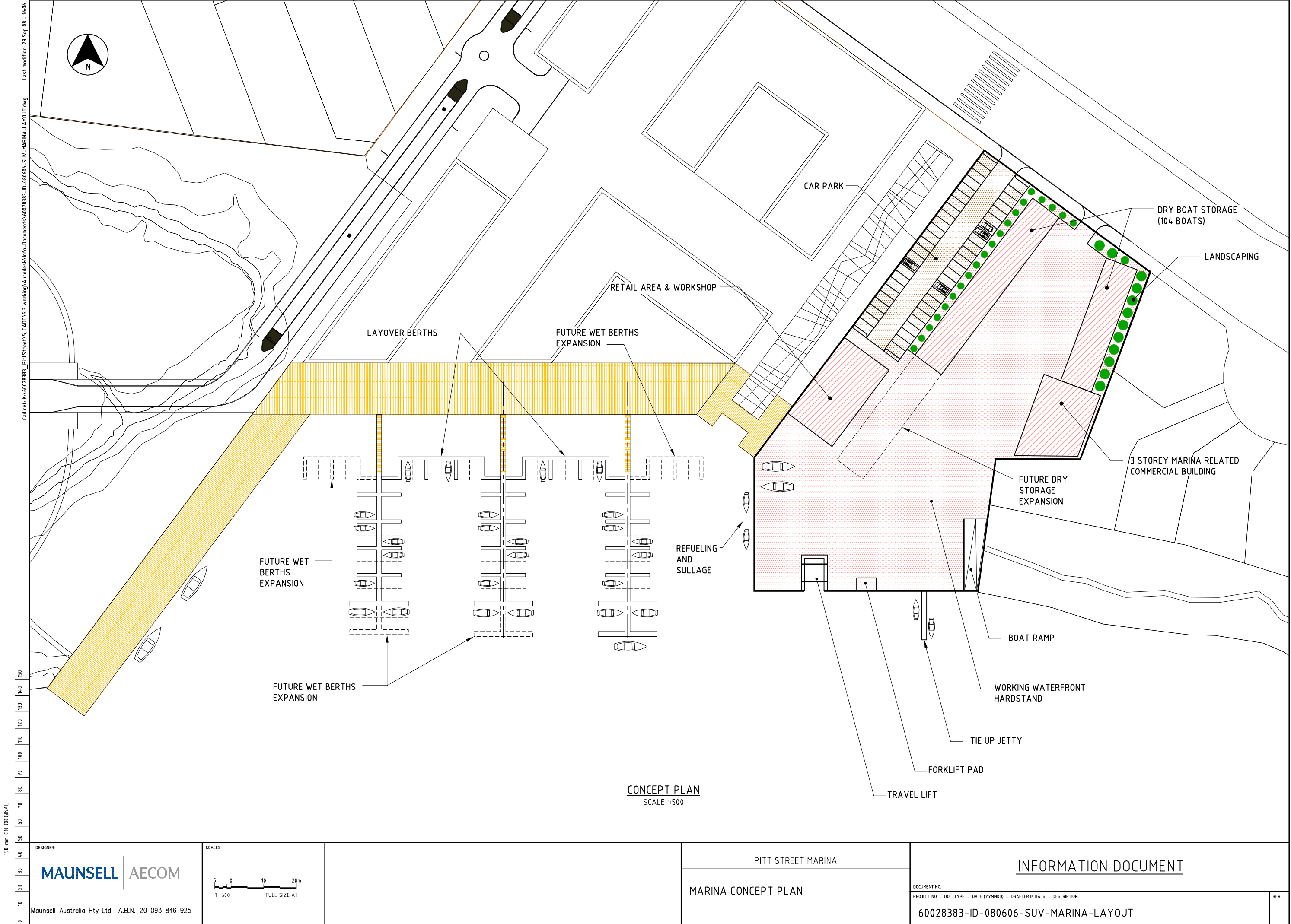




L.A. DRURY HAULAGE CONTRACTOR'S DEPOT & CALTEX DEPOT, PITT STREET.



## Appendix G Concept design plan



## Appendix H EPBC Act Search (September 2008)



Australian Government

Department of the Environment, Water, Heritage and the Arts

## Protected Matters Search Tool

You are here: [Environment Home](#) > [EPBC Act](#) > [Search](#)

26 September 2008 13:40

# EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Information on the coverage of this report and qualifications on data supporting this report are contained in the [caveat](#) at the end of the report.

You may wish to print this report for reference before moving to other pages or websites.

The Australian Natural Resources Atlas at <http://www.environment.gov.au/atlas> may provide further environmental information relevant to your selected area. Information about the EPBC Act including significance guidelines, forms and application process details can be found at <http://www.environment.gov.au/epbc/assessmentsapprovals/index.html>

**Search Type:** Point  
**Buffer:** 10 km  
**Coordinates:** -31.90076,152.48834



**Report Contents:** [Summary](#)  
[Details](#)

- [Matters of NES](#)
- [Other matters protected by the EPBC Act](#)
- [Extra Information](#)

[Caveat](#)  
[Acknowledgments](#)



This map may contain data which are  
© Commonwealth of Australia  
(Geoscience Australia)  
© 2007 MapData Sciences Pty Ltd, PSMA

## Summary

### Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail

part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance - see

<http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html>.

**World Heritage Properties:** None

**National Heritage Places:** None

**Wetlands of International Significance:** 1  
**(Ramsar Sites)**

**Commonwealth Marine Areas:** None

**Threatened Ecological Communities:** None

**Threatened Species:** 13

**Migratory Species:** 15

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage/index.html>.

Please note that the current dataset on Commonwealth land is not complete. Further information on Commonwealth land would need to be obtained from relevant sources including Commonwealth agencies, local agencies, and land tenure maps.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species. Information on EPBC Act permit requirements and application forms can be found at

<http://www.environment.gov.au/epbc/permits/index.html>.

**Commonwealth Lands:** 5

**Commonwealth Heritage Places:** None

**Places on the RNE:** 2

**Listed Marine Species:** 13

**Whales and Other Cetaceans:** None

**Critical Habitats:** None

**Commonwealth Reserves:** None

## Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

<b>State and Territory Reserves:</b>	4
<b>Other Commonwealth Reserves:</b>	None
<b>Regional Forest Agreements:</b>	1

---

## Details

## Matters of National Environmental Significance

Wetlands of International Significance [ [Dataset Information](#) ]  
(Ramsar Sites)

### [MYALL LAKES](#)

Within same catchment as Ramsar site

Threatened Species [ [Dataset Information](#) ]

Status

Type of Presence

#### Birds

##### [Lathamus discolor](#)

Swift Parrot

Endangered

Species or species habitat may occur within area

##### [Rostratula australis](#)

Australian Painted Snipe

Vulnerable

Species or species habitat may occur within area

##### [Xanthomyza phrygia](#)

Regent Honeyeater

Endangered

Species or species habitat may occur within area

#### Frogs

##### [Litoria aurea](#)

Green and Golden Bell Frog

Vulnerable

Species or species habitat likely to occur within area

##### [Mixophyes balbus](#)

Stuttering Frog, Southern Barred Frog (in Victoria)

Vulnerable

Species or species habitat likely to occur within area

##### [Mixophyes iteratus](#)

Southern Barred Frog, Giant Barred Frog

Endangered

Species or species habitat likely to occur within area

#### Mammals

##### [Chalinolobus dwyeri](#)

Large-eared Pied Bat, Large Pied Bat

Vulnerable

Species or species habitat may occur within area

##### [Dasyurus maculatus maculatus \(SE mainland population\)](#)

Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population)

Endangered

Species or species habitat may occur within area

##### [Potorous tridactylus tridactylus](#)

Long-nosed Potoroo (SE mainland)

Vulnerable

Species or species habitat may occur within area

##### [Pseudomys oralis](#)

Hastings River Mouse

Endangered

Species or species habitat likely to occur within area

##### [Pteropus poliocephalus](#)

Grey-headed Flying-fox

Vulnerable

Roosting known to occur within area

#### Plants

##### [Cryptostylis hunteriana](#)

Leafless Tongue-orchid

Vulnerable

Species or species habitat may occur within area

[\*Cynanchum elegans\*](#)

White-flowered Wax Plant

Endangered Species or species habitat likely to occur within area

Migratory Species [ [Dataset Information](#) ]

Status Type of Presence

**Migratory Terrestrial Species****Birds**[\*Haliaeetus leucogaster\*](#)

White-bellied Sea-Eagle

Migratory Species or species habitat likely to occur within area

[\*Hirundapus caudacutus\*](#)

White-throated Needletail

Migratory Species or species habitat may occur within area

[\*Merops ornatus\*](#)

Rainbow Bee-eater

Migratory Species or species habitat may occur within area

[\*Monarcha melanopsis\*](#)

Black-faced Monarch

Migratory Breeding may occur within area

[\*Monarcha trivirgatus\*](#)

Spectacled Monarch

Migratory Breeding likely to occur within area

[\*Myiagra cyanoleuca\*](#)

Satin Flycatcher

Migratory Breeding likely to occur within area

[\*Rhipidura rufifrons\*](#)

Rufous Fantail

Migratory Breeding may occur within area

[\*Xanthomyza phrygia\*](#)

Regent Honeyeater

Migratory Species or species habitat may occur within area

**Migratory Wetland Species****Birds**[\*Ardea alba\*](#)

Great Egret, White Egret

Migratory Species or species habitat may occur within area

[\*Ardea ibis\*](#)

Cattle Egret

Migratory Species or species habitat may occur within area

[\*Gallinago hardwickii\*](#)

Latham's Snipe, Japanese Snipe

Migratory Species or species habitat may occur within area

[\*Rostratula benghalensis s. lat.\*](#)

Painted Snipe

Migratory Species or species habitat may occur within area

**Migratory Marine Birds**[\*Apus pacificus\*](#)

Fork-tailed Swift

Migratory Species or species habitat may occur within area

[\*Ardea alba\*](#)

Great Egret, White Egret

Migratory Species or species habitat may occur within area

[\*Ardea ibis\*](#)

Cattle Egret

Migratory Species or species habitat may occur within area

**Other Matters Protected by the EPBC Act**Listed Marine Species [ [Dataset Information](#) ]

Status Type of Presence

**Birds**[\*Apus pacificus\*](#)

Fork-tailed Swift

Listed - overfly marine area Species or species habitat may occur within area

[\*Ardea alba\*](#)

Listed - Species or species habitat may occur



Great Egret, White Egret	overfly marine area	within area
<a href="#"><i>Ardea ibis</i></a> Cattle Egret	Listed - overfly marine area	Species or species habitat may occur within area
<a href="#"><i>Gallinago hardwickii</i></a> Latham's Snipe, Japanese Snipe	Listed - overfly marine area	Species or species habitat may occur within area
<a href="#"><i>Haliaeetus leucogaster</i></a> White-bellied Sea-Eagle	Listed	Species or species habitat likely to occur within area
<a href="#"><i>Hirundapus caudacutus</i></a> White-throated Needletail	Listed - overfly marine area	Species or species habitat may occur within area
<a href="#"><i>Lathamus discolor</i></a> Swift Parrot	Listed - overfly marine area	Species or species habitat may occur within area
<a href="#"><i>Merops ornatus</i></a> Rainbow Bee-eater	Listed - overfly marine area	Species or species habitat may occur within area
<a href="#"><i>Monarcha melanopsis</i></a> Black-faced Monarch	Listed - overfly marine area	Breeding may occur within area
<a href="#"><i>Monarcha trivirgatus</i></a> Spectacled Monarch	Listed - overfly marine area	Breeding likely to occur within area
<a href="#"><i>Myiagra cyanoleuca</i></a> Satin Flycatcher	Listed - overfly marine area	Breeding likely to occur within area
<a href="#"><i>Rhipidura rufifrons</i></a> Rufous Fantail	Listed - overfly marine area	Breeding may occur within area
<a href="#"><i>Rostratula benghalensis s. lat.</i></a> Painted Snipe	Listed - overfly marine area	Species or species habitat may occur within area

Commonwealth Lands [ [Dataset Information](#) ]

Commonwealth Trading Bank of Australia

Communications, Information Technology and  
the Arts - Australian Postal Corporation

Communications, Information Technology and  
the Arts - Telstra Corporation Limited



## Defence

Defence - Defence Housing Authority

Places on the RNE [ [Dataset Information](#) ]

Note that not all Indigenous sites may be listed.

## Historic

[Taree Courthouse NSW](#)

## Natural

[Coocumbac Island Nature Reserve NSW](#)

## Extra Information

State and Territory Reserves [ [Dataset Information](#) ]

Brimbin Nature Reserve, NSW

Coocumbac Island Nature Reserve, NSW

Khappinghat Nature Reserve, NSW

Talawahl Nature Reserve, NSW

Regional Forest Agreements [ [Dataset Information](#) ]

Note that all RFA areas including those still under consideration have been included.

Lower North East NSW RFA, New South Wales

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## Caveat

The information presented in this report has been provided by a range of data sources as [acknowledged](#) at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the *Environment Protection and Biodiversity Conservation Act 1999*. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under "type of presence". For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the [migratory](#) and [marine](#) provisions of the Act have been

mapped.

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as [extinct or considered as vagrants](#)
- some species and ecological communities that have only recently been listed
- [some terrestrial species](#) that overfly the Commonwealth marine area
- migratory species that are very [widespread, vagrant, or only occur in small numbers](#).

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites;
- seals which have only been mapped for breeding sites near the Australian continent.

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

## Acknowledgments

This database has been compiled from a range of data sources. The Department acknowledges the following custodians who have contributed valuable data and advice:

- [New South Wales National Parks and Wildlife Service](#)
- [Department of Sustainability and Environment, Victoria](#)
- [Department of Primary Industries, Water and Environment, Tasmania](#)
- [Department of Environment and Heritage, South Australia Planning SA](#)
- [Parks and Wildlife Commission of the Northern Territory](#)
- [Environmental Protection Agency, Queensland](#)
- [Birds Australia](#)
- [Australian Bird and Bat Banding Scheme](#)
- [Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [Queensland Herbarium](#)
- [National Herbarium of NSW](#)
- [Royal Botanic Gardens and National Herbarium of Victoria](#)
- [Tasmanian Herbarium](#)
- [State Herbarium of South Australia](#)
- [Northern Territory Herbarium](#)
- [Western Australian Herbarium](#)
- [Australian National Herbarium, Atherton and Canberra](#)
- [University of New England](#)
- Other groups and individuals

[ANUcliM Version 1.8, Centre for Resource and Environmental Studies, Australian National University](#) was used extensively for the production of draft maps of species distribution. Environment Australia is extremely grateful to the many organisations and individuals who provided

expert advice and information on numerous draft distributions.

Last updated: Monday, 21-Jul-2008 10:56:50 EST

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Heritage and the Arts](#)

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Greater Taree City Council  
 PO Box 482  
 Taree  
 NSW 2430

Attention: Richard Pamplin - Manager Environmental and Strategic Planning

3 September 2009

Dear Richard

**RE: Adequacy of the Pitt Street Waterfront Rezoning – Maritime Assessment report submitted in support of the Environmental Assessment of the Pitt Street, Taree Waterfront Precinct Concept Plan**

The maritime assessment of the proposed marina at the Pitt Street Waterfront site (now known as 'Figtrees on the Manning') entitled '*Pitt Street Waterfront Rezoning – Maritime Assessment*' (the Maritime Assessment) dated 2 October 2008 prepared by Maunsell Australia Pty Ltd (now AECOM Australia Pty Ltd) was originally prepared in support of the *Figtrees on the Manning Taree, New South Wales – Local Area Plan / Master Plan* (Suters Architects), dated June 2008, as shown in the Maritime Assessment.

As the author of the assessment, I have reviewed it in detail to determine:

- 1) Whether its scope and findings adequately address the issues presented by the Concept Plan (as the plan exists on the date of this letter, with the reference: *Figtrees on the Manning Taree, New South Wales – Local Area Plan / Master Plan*, Final Draft, prepared by Suters Architects, received by AECOM via email dated 14 July 2009); and
- 2) Whether any findings in the assessment are out of date.

**Table 1** below outlines any additional issues identified as a result of my review of the assessment and how these issues have been, or may be addressed through the planning process.

**Table 1 Additional issues/recommendations arising out of Concept Plan**

Issue	Recommendation
General Comment	The Maritime Assessment does not consider non-maritime related matters.
DGR – General Requirements: Item 3. <i>A thorough site analysis including constraints mapping and description of the existing environment.</i> Item 7. <i>An assessment of the potential impacts of the project and a draft Statement of Commitments, outlining environmental management, mitigation and monitoring measures to be implemented to minimise any potential impacts of the proposal.</i>	Maritime Assessment provides strategic analysis of site in terms of maritime site issues only, including overview analysis of hydrological and geotechnical. Guidance is provided regarding further assessment required. Assessment is sufficient to demonstrate the site is generally suitable for such development, but further design is required to adequately demonstrate the impacts can be managed appropriately. It is recommended that development of the marina basin and berthing be subject to detailed

	hydrodynamic modelling to determine the final basin design.
<p>DGR – Key Issues: Item 7.3</p> <p><i>Determine whether contaminated soils are likely to be disturbed during the proposed works. If contaminated soils are likely to be disturbed, the EA should detail the measures to be adopted to protect human health and the environment and, if necessary, remediate or dispose of the contaminated material.</i></p>	<p>Maritime Assessment does not provide geotechnical assessment of the 'to be extracted' material in the marina basin. AECOM understands that this issue has been addressed in the Coffey Geotechnical Report prepared as part of the rezoning application.</p>
<p>DGR – Key Issues: Item 5.5</p> <p><i>Identify strategies for the management of sewerage (sic) waste from vessels and other sections of the facility, including:</i></p> <ul style="list-style-type: none"> <li>• <i>Pump out facilities and holding tanks;</i></li> <li>• <i>Connections to sewerage systems operated by MidCoast Water, or options for waste water treatment, including examination of re-use options;</i></li> <li>• <i>Spill management and containment; and</i></li> <li>• <i>Management of privately owned vessels at the marina.</i></li> </ul>	<p>Maritime Assessment does not address these matters. Protocols exist for effective management of these matters, which could be applied to the proposed marina. Typically, these elements are determined by operator as part of subsequent design stage and would be assessed as part of the more detailed Project Application.</p>
<p>DGR – Key Issues: Item 7.1</p> <p><i>Address coastal hazards and the provision of the Coastline Management Manual. In particular, consider impacts associated with wave and wind action, coastal erosion, sea level rise, and more frequent and intense storms.</i></p>	<p>Flood studies for Manning River have been completed by others. The wave climate at the site and climate change predictions have been addressed. Other issues indicated in the Coastline Management Manual are not applicable to this site.</p>
<p>DGR – Key Issues: Item 7.4</p> <p><i>Identify presence and extent of acid sulphate soils on the site and, where relevant, appropriate mitigation measures. Identify the need for an Acid Sulfate Management Plan (prepared in accordance with ASSMAC Guidelines).</i></p>	<p>No assessment of ASS has been made. The Maritime Assessment, based on available information, identifies ASS as an important issue to be addressed. AECOM understands an ASS assessment is provided in the Coffey ASS report and we understand recommendations are included within the Concept Plan Application Statement of Commitments.</p>
<p>DGR – Key Issues: Item 7.5</p> <p><i>Provide a detailed assessment of any geotechnical limitations that may occur on the site and, if necessary, appropriate design considerations addressing the limitations.</i></p>	<p>The Maritime Assessment identifies that the marina site may be shallowly underlain by bedrock. AECOM understands that geotechnical issues for the marina development have been addressed in the Coffey Geotechnical Report prepared as part of the rezoning application.</p>
<p>DGR – Key Issues: Item 7.6 – 7.8</p> <p><i>Flooding</i></p>	<p>A flood study for the site has been prepared by others and the flood risk for site has been quantified. The Maritime Assessment does not provide a flood assessment.</p>
<p>DGR – Key Issues: Item 8.1</p> <p><i>Provide an assessment of the marina and its potential impacts. Undertake an analysis of the need for the marina facilities and justify the suitability of the site for a marina</i></p>	<p>The objective of the Maritime Assessment was to address the suitability of the site for a marina, based on existing known physical constraints, along with justifying the size of the marina.</p>

<i>development. Address the cumulative impact on increased boating activities in the locality including the provision of appropriate boating infrastructure.</i>	Cumulative impacts of the marina are not explicitly addressed. However, we note that based on information presented in the Maritime Assessment, the marina and associated boat ramp/maintenance area would enhance the availability of boating facilities in the area to meet forecast demand.
DGR – Key Issues: Item 8.2 <i>Provide hydrographic survey and modelling details, the need for dredging both on-site and for access from other parts of the Manning River, impacts and on-going maintenance issues.</i>	Hydrographic survey provided. Need for dredging and maintenance at site is described in the Maritime Assessment. Need for dredging in other parts of the Manning River is not described in the Maritime Assessment.
DGR – Key Issues: Item 8.3 <i>Address the principles of Crown lands management under section 11 Crown Lands Act 1989 (NSW), and the land assessment provisions in Part 3 of that Act.</i>	It is understood that principles of Crown land management or land assessment provisions are addressed elsewhere in the Environmental Assessment prepared as part of the Concept Plan Application. Maritime Assessment demonstrates suitability of land for marina and related uses.
DGR – Key Issues: Item 8.4 <i>Provide an economic feasibility report, prepared by an appropriately qualified consultant, addressed the proposed marina size.</i>	Maritime Assessment provides economic assessment that provides justification for the size of the marina and facilities as shown in the Maritime Assessment report. The proposed 'working waterfront' area shown in the Local Area Plan / Master Plan is inconsistent with the recommendations of the Maritime Assessment. In particular: The landside area identified for use as a 'working waterfront' is of an insufficient size for boat repairs, dry storage of larger vessels, hardstand for boat manoeuvring, or associated maritime activities (administration, boat repair workshops, chandlery, marina retail and the like). Definition of mixed use (applies to building adjacent to 'working waterfront' area) does not appear to provide for dry storage building. The Local Area Plan / Master Plan does not depict the number of dry storage facilities recommended in the Maritime Assessment. AECOM is advised that the Master Plan has considered / adopted the general principles of the Maritime Assessment. However, specific consideration of dry storage facilities will be explored and confirmed when an operator is available and refines the commercial operations, which will occur at the Project Application stage. The recommendations contained in the Maritime Assessment report, with respect to facilities and viability of a marina at the subject site, remain valid.
DGR – Key Issues: Item 8.5 <i>Identify any fuel or chemical storage areas to be established on the site, and describe</i>	The Maritime Assessment does not address these matters. Protocols exist for effective management of these matters, which could be applied to the proposed marina. Typically,

<i>proposed measures to minimise the potential for leakage or the migration of pollutants into the soil/waters into or from the site. Discuss spill prevention, and protocols for fuel dispensing, and the development and implementation of a fuel avoidance plan.</i>	these elements are determined by operator as part of subsequent design stage. AECOM understands that these matters will be addressed as part of the subsequent Project Application stage.
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It is considered that, subject to matters outlined in the **Table 1** above, the scope, findings and conclusions in the assessment remain relevant and valid. While there may be minor matters which arise from the detailed development of the Concept Plan, no substantial changes have occurred which would warrant updating of the study. Where conditions / standards etc. have changed these will be addressed either through a Preferred Project Report (PPR) after exhibition of the Part 3A Concept Plan, or through the subsequent Project Application Process. Accordingly, it is considered that the attached assessment remains valid for the Concept Plan and is suitable in its current form for public exhibition.

Yours faithfully



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