

## 5. MASTERPLAN CONSULTATION PROCESS

### 5.1 Community Workshop

Four community workshops were undertaken as part of the community consultation process for the Nambucca River Master Plan. All of these meetings were held on Monday 6 April 2009. Particular interests groups were invited to attend the following meetings to assist in gathering targeted information and feed back:

- Nambucca River Estuary and Coastline Management Committee (NRE & CMC)
- Environmental Interest Groups
- Chamber of Commerce and Business Interest Groups
- General Community

The community consultation was divided into special interest groups to provide the opportunity for each group to participate in open discussions regarding their special interests. The intention of the final general community meeting was to allow all of the groups to come together for a combined presentation and discussion.

The final general community meeting was not well attended, indicating that most of those interested people had already participated in one of the earlier group sessions. To ensure that people had a further opportunity to participate, a 'shopfront' information desk was conducted on 30 April 2009.

### 5.2 Shop Front Information Desk

Nambucca Shire Council set up an information desk on Bowra Street, Nambucca Heads which was attended by Joseph Kane as a representative from the Master Planning Team to further interact with the community on what they want to see in the Masterplan.

The majority of the issues and concerns raised had already been covered in the consultation held on 6 April, however there were some further suggestions made that are listed.

- Interest in closing the hole in the V Wall to concentrate more flow in the main channel and wash sand back out to sea.
- The Nambucca River has approximately 6-7 local fisherman who operate under license in the estuary. Most rivers in the region prohibit commercial estuary fishing as a result commercial fisherman for out of the region travel to the Nambucca River to catch.
- There is a native title claim on the sand islands within the Nambucca River and other areas within the study area.
- The Nambucca Heads Local Aboriginal Land Council would like to see the reinstatement of an ocean pool similar to that of the pool that was once within the river, photos of this pool existing in the Headland Museum.
- A pedestrian boardwalk and cycleway along the entire length of the study area.
- Theft is a major issue when storing boats on the river overnight.
- A mix of suggestions were put forward for the Sand Island. Parts of the community want nothing to be done on the Sand Island except cleaned up and dedicated as a reserve. Portions of the community would like to see an environmentally responsible low key tourist development on the island. No members of the community wanted high-rise style development on the island.
- Support for and against the dredging of the Nambucca River.



- Support for the reopening of the river for tourist attractions, like the Nambucca Princess and other tourist operators like a deep sea fishing charters or a dive boat.
- Increase the amount of waterfront dining options on the river.
- Any development on or adjacent to the river that is likely to have any affect on the water quality of the river should be required to provide an environmental protection bond to ensure construction of any type does not impact on the oyster and fishing industries.
- Most members of the community agree that Nambucca Heads needs to grow and that this is achieved through some form of development. However this development needs to be of the scale that ensures Nambucca maintains its style and character unique to the area.
- Some form of environmental protective bond applied to any development that may impact water quality and affect the oyster industry in the river.

### 5.3 Community Submissions

As part of the Master Planning consultation process a website was created with a specific section prepared for use by the Nambucca Community to submit their thoughts on what the masterplan should contain or include. Submissions were also received via email and post.

While the majority of submissions were protesting against rumours from within the community and number of constructive recommendations were received.

The following Table provides a summary of the submissions for the masterplan project

| Item   | Support for         | Supports Against |
|--|---------------------|------------------|
| Turn Nambucca Heads into a Must See Destination  | 1                   |                  |
| Signage Identifying the area from the Highway  | 3                   |                  |
| Cultural Walk/Historical Trail   | 3                   |                  |
| Fix problems with bridge to Stuart Island  | 2                   |                  |
| Themed Planting Throughout the Precincts   | 2                   |                  |
| Aesthetically pleasing development   | 1                   |                  |
| Development on Wellington Drive  | Chamber of Commerce | 1                |
| Swimming Access from Gordon Park   | 1                   |                  |
| Maintain & Improve Swimming and Park Facilities at the Glen and V-wall                 | 1                   |                  |
| Development of the Sand Island   |                     | 3                |
| All facilities located on the north side of the river are setback from the waters edge | 2                   |                  |
| Restrict the Inner Harbour to passive recreational uses                                | 1                   | 1                |
| Improve all Toilet Facilities  | 2                   |                  |
| Stuart Island Improvements   | 2                   |                  |
| Gordon Park Improvements   | 2                   |                  |
| Possible Development Opportunities at the Tennis Clubhouse                             | 1                   |                  |
| Tinny Jetty at Gordon Park   | 1                   |                  |
| Upgrade the Pedestrian Links within the Rainforest above Gordon Park                   | 2                   |                  |
| Extensive signage to be removed  | 1                   |                  |
| Redevelopment Bowra Street into A tourist precinct                                     | 1                   |                  |
| Introduce a homestay program in the area   | 1                   |                  |
| Become a Plastic Bag Free Town   | 1                   |                  |
| All new development to be mindful of Sea Level Rise                                    | 1                   |                  |
| Pedestrian Link from Wellington Rock to Shelly Beach improvements                      | 1                   |                  |



| Item  | Support for         | Supports Against |
|---|---------------------|------------------|
| Develop Teagues Creek to Bellwood Creek as a recreation area (once Highway moves) | 1                   |                  |
| Provide a quality boat access in the Teagues Creek Precinct                       | 1                   |                  |
| Stabilization of Embankments along river frontage                                 | 1                   |                  |
| Protect Major Mangrove and Sea Grass Communities                                  | 1                   |                  |
| provide pedestrian crossing to shops on Riverside Drive                           | 1                   |                  |
| 2 story Carpark at the RSL Club   |                     | 1                |
| Upgrade RSL Club Boat Ramp  | 1                   |                  |
| Bowra Street Extension  | Chamber of Commerce | 1                |
| Small Wharf and Boat parking adjacent Gordon Park                                 | 1                   |                  |
| Remove old bank stabilization rubbish   | 1                   |                  |
| Retain and upgrade small boat ramps along Wellington Drive for small craft        | 1                   |                  |
| Dredge the River  | Chamber of Commerce | 2                |
| Maintain Building heights along Wellington Drive                                  | 2                   |                  |
| Retain grassed area opposite the Tavern   |                     |                  |
| Close the whole in the Wall   | 1                   | 1                |

**Table 2 – Summary of Submission Received**

#### 5.4 1<sup>st</sup> Draft Masterplan Review by the Nambucca River Estuary & Coastline Committee

The 1<sup>st</sup> Draft Masterplan was provided to the Nambucca River Estuary & Coastline Committee for initial review and an opportunity to provide the masterplan team with comments/feedback on the masterplan. The 1<sup>st</sup> Draft Masterplan was provided to all members of the committee by Council with the following persons/organisations provided a response;

- John Monckton – 6 July, 7 July and 10 July 2009,
- Anne Smyth – 13 July 2009,
- John Tait and Edna Stride on behalf of the Gordon Park Rainforest Walks Committee – Undated,
- Fay Lawson – 22 July 2009,
- David McPherson, Crown Lands Division – 28 July 2009, attached as Appendix B and
- Stephen Channells, Department of Lands – 31 July 2009.

#### 5.5 Next Consultation Stages

The Draft Masterplan will be put on Public Exhibition for 21 days and invite comments from the community and general public. This will be advertised in the local print media and around the town to ensure the community is aware of the public exhibition and have an opportunity to make comment.

Within that 21 day period of public exhibition a Public Forum will be held to present the masterplan proposal to the community and gather feedback.

The draft masterplan will be available for review in print at Council Chambers in Macksville and available for download in section on the website.



## 6. IMPLEMENTATION OF THE MASTERPLAN

This Implementation Plan has been provided as a guide to the timing of the proposed works only and will be further refined once the advertising and submission period has been completed and any changes required from this period finalised.

### 6.1 Precinct 1 – Teagues Creek to Tourist Information Centre

Works proposed for this area mostly reliant on the relocation of the Pacific Highway. These works within Precinct 1 have been identified for implementation in the fifth and sixth year of the masterplan, however the progress of these works can start as soon as the Pacific Highway has been relocated.

Installation of Welcome signage is to be implemented in the initial year of the masterplan to encourage vehicle traffic into Nambucca Heads.

The major project works within this precinct (New Tourist Information Centre building, floating pontoon, car park and pedestrian link) have been scheduled for years 5 to 7 to allow funds to be gathered and private investment/interest generated. Signage to Welcome people to the area is to be constructed in the first year of the project.

| Precinct One Works Proposed                                   | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works  | Authority/Organisation Requiring Concurrence & MOU                                | Time line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|---|---------------|--------------------------------|--|---|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|   |               |                                |  |   | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| New "welcolme to Nambucca" sign                               | \$3,000       |                                | Nambucca Shire Council (NSC)<br>Nambucca Valley Tourism (NVT)  | Road & Traffic Authority (RTA)  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New street trees (25 litre plant stock, based on 1 every 15m) | \$3,300       |                                | NSC or contractor  | Crown Land Division (CLD)   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New pathway 2.2m wide   | \$185,500     |                                | NSC or contractor  | CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Re-vegetation (from Teagues Creek to Bellwood Creek)          | \$25,000      |                                | NSC or contractor, Nambucca Valley Conservation Association (NVCA), Nambucca Valley Landcare (NVLC), Nambucca Valle River Uses Group (NVRUG) | CLD, Nambucca Valley Aboriginal Land Council (NVALC),                             |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Weed control  | \$25,000      |                                | NSC or Contractor  | CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Clean up rubbish removal                                      | \$1,200       |                                | NVLC, NVCA, NVRUG  |   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Road re-alignment   | \$40,000      |                                | NSC or contractor  | RTA, CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New carparking (12 spaces)                                    | \$20,000      |                                | NSC or contractor  | RTA, CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New pedestrian crossing                                       | \$1,000       |                                | NSC or contractor  | RTA, CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Stepped access from shelter to pontoon                        | \$15,000      |                                | NSC or contractor  | RTA, CLD, NSW Dept Natural Resources (DNR),                                       |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Ramped pathway to pontoon                                     | \$4,200       |                                | NSC or contractor  | CLD, DNR  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Shelter with concrete slab & seating                          | \$12,000      |                                | NSC or contractor  | RTA, CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Floating pontoon, gangway, 2 posts/pylons                     | \$30,000      |                                | NSC or contractor  | DNR, CLD, NSW Department of Fisheries (DF), Environmental Protection Agency (EPA) |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Gardens   | \$3,500       |                                | NVLC, NVCA, NVRUG  | CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Turfed area, incl preparation                                 | \$1,700       |                                | NVLC, NVCA, NVRUG  | CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |



| Precinct One Works Proposed                                       | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works   | Authority/Organisation Requiring Concurrence & MOU | Time line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|---|---------------|--------------------------------|---|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|   |               |                                |   |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| New "welcolme to Nambucca" sign                                   | \$3,000       |                                | Nambucca Shire Council (NSC)<br>Nambucca Valley Tourism (NVT)                 | Road & Traffic Authority (RTA)                     |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Other park furniture e.g. seats, bollards                         | \$7,000       |                                | NVLC, NVCA, NVRUG   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Road realignment  | \$4,200       |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New carparking (10 spaces)  | \$15,000      |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New pathway   | \$3,500       |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Turfed area   | \$1,350       |                                | NVLC, NVCA, NVRUG   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Planted edge to river   | \$6,300       |                                | NVLC, NVCA, NVRUG   | CLD, DNR, NVALC                                    |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Earthworks on bank  | \$1,500       |                                | NSC or contractor   | DNR, CLD, DF, EPA, NVALC                           |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Ex ground tree (for feature shade tree) 100 litre stock           | \$550         |                                | NVLC, NVCA, NVRUG   | CLD, NVALC   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Bollards to park edge   | \$4,000       |                                | NVLC, NVCA, NVRUG   | CLD, NVALC   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Picnic settings, bins, furniture                                  | \$6,000       |                                | NVLC, NVCA, NVRUG   | CLD, NVALC   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Upgrade existing facilities                                       | \$10,000      |                                | NSC or contractor   | CLD, NVALC   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Planting to western side of highway                               | \$5,600       |                                | NVLC, NVCA, NVRUG   | CLD, NVALC   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| "Cultural route" signage  | \$2,000       |                                | NSC, NVT, NVCA, NVRUG, NVLC, NVALC, Nambucca Valley Historical Society (NVHS) | CLD, NVALC   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| <b>Information Centre</b>   |               |                                |   |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Themed street pole treatment                                      | \$15,000      |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New carpark (21 spaces, 2 coaches, 2 caravans) 6000m <sup>2</sup> | \$500,000     |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Screen planting to carpark  | \$20,000      |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Tree planting to carpark (25 litre plant stock)                   | \$660         |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Sculptural element (on northeastern corner)                       | \$50,000      |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New pathway   | \$70,000      |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Feature pavement to centre entry                                  | \$180,000     |                                | NSC or contractor   | RTA, CLD   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |



| Precinct One Works Proposed  | Cost Estimate         | Funding Opportunities & Grants | Organisation to Undertake Works                               | Authority/Organisation Requiring Concurrence & MOU | Time line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|--|-----------------------|--------------------------------|---|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|  |                       |                                |   |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| New "welcolme to Nambucca" sign  | \$3,000               |                                | Nambucca Shire Council (NSC)<br>Nambucca Valley Tourism (NVT) | Road & Traffic Authority (RTA)                     |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New facility (info centre, museum, art gallery, interpretvie facilitiy, café) including building, pavement, gardens, sculptural building façade, vegetation removal, exterior furniture, lighting etc. | \$2,500,000           |                                | NSC, NSW State Government,                                    | NVALC  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Existing info centre modified to become boat/bike hire   | \$20,000              |                                | NSC, Private Operator   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Road realignment & creation of new disabled carparks   | \$70,000              |                                | NSC or contractor   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Extension to existing jetty to include floating pontoon  | \$50,000              |                                | NSC, Private Operator   | DNR, CLD, DF, EPA, NVALC                           |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New street tree planting (25 litre plant stock)  | \$1,000               |                                | NVLC, NVCA, NVRUG   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| <b>Precinct Total</b>  | <b>\$3,914,030.00</b> |                                |   |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |

**6.2 Precinct 2 – Stuart Island**

The proposed works on Stuart Island are to be implemented in the first two years of the masterplan. The upgrade of this area is immediately required, with the upgrading of the boat ramp and launching facilities required before the ramp at the RSL Club is removed.

The new roads and car/trailer parking facilities are required to prevent further erosion and degradation of the vegetation on the island. All works proposed on Stuart Island will take place in years 1 and 2.

| Precinct Two Works Proposed Stuart Island  | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|--|---------------|--------------------------------|---------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|  |               |                                |                                 |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| Re-vegetation of eastern edge of island  | \$8,000       |                                | NVLC, NVCA, NVRUG               | NVALC  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New interpretive material to burial site as part of "Cultural Route"               | \$2,000       |                                | NSC, NVHS, NVALC                | NVALC  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New interpretive material to bait shop & schools sites as part of "Cultural Route" | \$3,000       |                                | NSC, NVHS, NVALC                | NVALC  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |



| Precinct Two Works Proposed Stuart Island  | Cost Estimate    | Funding Opportunities & Grants | Organisation to Undertake Works                       | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
|--|------------------|--------------------------------|---|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|
|  |                  |                                |   |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |
| Re-vegetation of eastern edge of island  | \$8,000          |                                | NVLC, NVCA, NVRUG                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Re-vegetation of riparian vegetation along northern edge of Stuart Island park   | \$4,000          |                                | NVLC, NVCA, NVRUG, Nambucca Valley Golf Course (NVGC) | NVALC, NVGC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Weed removal & new planting at island entry  | \$2,000          |                                | NVLC, NVCA, NVRUG                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Re-vegetation along drainage line edge (south of brick building)   | \$3,000          |                                | NVLC, NVCA, NVRUG                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New entry sign to Stuart Island park   | \$2,000          |                                | NVT   | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New loop road & boat trailer parking   | \$270,000        |                                | NSC or Contractor                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Upgrade existing brick building to more coastal character  | \$7,000          |                                | NSC, Sea Rescue                                       | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New carparking to Stuart Island park (26 spaces)   | \$30,000         |                                | NSC or Contractor                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Bollards/post and rail to loop road and carparking   | \$8,000          |                                | NSC or Contractor                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Establishment of revegetation areas to existing Casuarinas at Stuart Island Park (fencing, tree planting, understorey planting, signage) | \$10,000         |                                | NVLC, NVCA, NVRUG                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New picnic facilities to Stuart Island Park - shelters and furniture   | \$30,000         |                                | NVLC, NVCA, NVRUG                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New toilet block to Stuart Island park   | \$80,000         |                                | NSC or Contractor                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Vegetated stormwater basin (earthworks, planting) 300m <sup>2</sup>  | \$2,500          |                                | NVLC, NVCA, NVRUG                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New shade tree planting to Stuart Island park (25 litre stock)   | \$800            |                                | NVLC, NVCA, NVRUG                                     | NVALC  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Remove old jetties & upgrade existing ramps  | \$6,000          |                                | NSC, NVLC, NVCA, NVRUG                                | NVALC, DNR, DF                                     | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New fish cleaning facilities   | \$5,000          |                                | NVRUG   |  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |
| <b>Precinct Total</b>  | <b>\$473,300</b> |                                |   |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |



### 6.3 Precinct 3 – Bellwood Park

The upgrade to Bellwood Park has been scheduled for completion within the first two years of the masterplan implementation. The upgrade to this community park is seen to be the first major outcome or result from this masterplan.

The park and pedestrian link upgrades are all on public land and do not require private investment. Most of the works can be undertaken by the Local Council or local trades persons. All works proposed in the Bellwood Park Precinct will take place in years 1 and 2.

| Precinct Three Works Proposed Bellwood                         | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|--|---------------|--------------------------------|---------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|  |               |                                |                                 |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| Weed removal & revegetation to vegetation west of caravan park | \$6,000       |                                | NVLC, NVCA, NVRUG               | CLD  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New park entry sign  | \$2,000       |                                | NSC, NVT                        | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Feature planting at park entry sign                            | \$5,000       |                                | NVLC, NVCA, NVRUG               | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Weed removal, installation of boulders & revegetation to creek | \$12,000      |                                | NSC, NVLC, NVCA, NVRUG          | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New pathway to park (2.2m wide)                                | \$37,100      |                                | NSC, NVLC, NVCA, NVRUG          | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Mooring poles  | \$9,000       |                                | NSC                             | CLD, DF, DNR                                       |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Bridged crossing to creek                                      | \$15,000      |                                | NSC                             | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New boardwalk east of caravan park (2.2m wide)                 | \$860,000     |                                | NSC, NVLC, NVCA, NVRUG          | CLD, DF, DNR, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Upgrade existing toilets                                       | \$30,000      |                                | NSC                             | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Upgrade existing shelters                                      | \$30,000      |                                | NSC, NVLC, NVCA, NVRUG          | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New pavement to park shelters                                  | \$14,000      |                                | NSC, NVLC, NVCA, NVRUG          | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New structures to park entries (simple arbor)                  | \$6,000       |                                | NSC, NVLC, NVCA, NVRUG          | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Installation of 'water play' area                              | \$180,000     |                                | NSC or contractors              | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New playground (dry play area)                                 | \$120,000     |                                | NSC or contractors              | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Mounded revegetation areas to park                             | \$10,500      |                                | NSC or contractors              | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Sculptural water themed element to park                        | \$15,000      |                                | NSC or contractor               | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Removal of existing timber wall                                | \$3,000       |                                | NSC, NVLC, NVCA, NVRUG          | CLD, DF, DNR, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Installation of new shade trees to park                        | \$1,600       |                                | NSC, NVLC, NVCA, NVRUG          | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |



| Precinct Three Works Proposed Bellwood                          | Cost Estimate      | Funding Opportunities & Grants | Organisation to Undertake Works | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |
|---|--------------------|--------------------------------|---------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|--|--|
|   |                    |                                |                                 |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |
| Weed removal & revegetation to vegetation west of caravan park  | \$6,000            |                                | NVLC, NVCA, NVRUG               | CLD  | 1         | 2 |   |   |   |   |   |   |   |    |  |  |
| Installation of turf to park (eroded areas)                     | \$22,000           |                                | NSC, NVLC, NVCA, NVRUG          | CLD,   |           |   |   |   |   |   |   |   |   |    |  |  |
| New shelters to park and furniture                              | \$25,000           |                                | NSC, NVLC, NVCA, NVRUG          | CLD,   |           |   |   |   |   |   |   |   |   |    |  |  |
| Weed removal and revegetation of drain at western edge of park  | \$4,000            |                                | NSC, NVLC, NVCA, NVRUG          | CLD,   |           |   |   |   |   |   |   |   |   |    |  |  |
| New street tree planting along Riverside Drive (25 litre stock) | \$1,400            |                                | NSC, NVLC, NVCA, NVRUG          | CLD,   |           |   |   |   |   |   |   |   |   |    |  |  |
| Weed removal & revegetation to Freshwater Creek                 | \$7,500            |                                | NSC, NVLC, NVCA, NVRUG          | CLD, DF, DNR, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |
| <b>Precinct Total</b>   | <b>\$1,416,100</b> |                                |                                 |  |           |   |   |   |   |   |   |   |   |    |  |  |

**6.4 Precinct 4 – RSL Club**

The RSL Club Precinct is one of two areas that required significant infrastructure investments. As a result this precinct has been programmed for implementation in years 7 to 10. These are major works and will need significant amounts of detailed planning, engineering and funds/commitments thus requiring the extended timeline. The environmental protection and upgrade works are to be undertaken initially before the major built works and infrastructure are implemented. All works proposed in the RSL Precinct will be undertaken in years 7 to 10.

| Precinct Four Works Proposed RSL  | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |    |
|---|---------------|--------------------------------|---------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|----|
|   |               |                                |                                 |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |    |
| New pathway link between new boardwalk & Riverside Drive path (at northern end of caravan park) 2.2m wide | \$3,500       |                                | NSC, NVLC, NVCA, NVRUG          | CLD,   |           |   |   |   |   |   |   | 7 | 8 | 9  | 10 |
| Installation of rock filleting along Riverside Drive  | \$30,000      |                                | Riparian Management Services    | CLD, DF, DNR, EPA, Wetland Care Australia          |           |   |   |   |   |   |   |   |   |    |    |
| Upgrade to pathway, installation of shade trees to memorial park  | \$20,000      |                                | NSC, NVLC, NVCA, NVRUG          | CLD,   |           |   |   |   |   |   |   |   |   |    |    |
| Install new coach parking on Riverside Drive outside memorial park  | \$8,000       |                                | NSC                             | CLD  |           |   |   |   |   |   |   |   |   |    |    |

| Precinct Four Works Proposed RSL  | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works   | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|---|---------------|--------------------------------|-----------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|   |               |                                |                                   |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| New pathway link between new boardwalk & Riverside Drive path (at northern end of caravan park) 2.2m wide | \$3,500       |                                | NSC, NVLC, NVCA, NVRUG            | CLD,   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Weed removal & revegetation works to Beer Creek   | \$4,500       |                                | NSC, NVLC, NVCA, NVRUG            | CLD, DF, DNR, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New pedestrian crossing to Beer Creek   | \$10,000      |                                | NSC, NVLC, NVCA, NVRUG            | CLD, DF, DNR, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Planted buffer to Anzac memorial (low planting)   | \$3,000       |                                | NSC, NVLC, NVCA, NVRUG            | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New seating to Anzac memorial   | \$8,000       |                                | NSC, NVLC, NVCA, NVRUG            | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Pipe section of Beer Creek & install carparking   | \$60,000      |                                | NSC                               | CLD, DF, DNR, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install gross pollutant traps to stormwater system at Beer Creek  | \$15,000      |                                | NSC                               | CLD, DF, DNR, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New 2 storey carpark to RSL carpark   | \$2,800,000   |                                | RSL Club, NSC                     | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New road pavement to RSL carpark & new carparking   | \$130,000     |                                | RSL Club, NSC                     | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Urban infrastructure, lighting, furniture, signage, pavement  | \$400,000     |                                | RSL Club, NSC                     | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Tree planting and gardens, turfing to new carparking & road circulation at RSL carpark                    | \$200,000     |                                | RSL Club, NSC                     | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Mixed used development (within carpark)   | \$1,500,000   |                                | RSL Club, NSC, Private Investment | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Mixed used development (on water)   | \$2,000,000   |                                | RSL Club, NSC, Private Investment | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| River edge upgrade, including outside cafe  | \$5,000       |                                | NSC, Private Investment           | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Upgrade boardwalk from RSL to Gordon Park 2.2 m wide  | \$400,000     |                                | NSC, NVLC, NVCA, NVRUG            | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New street trees along Riverside Drive (25 litre stock)   | \$2,000       |                                | NSC                               |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |



| Precinct Four Works Proposed RSL  | Cost Estimate      | Funding Opportunities & Grants | Organisation to Undertake Works | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
|---|--------------------|--------------------------------|---------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|
|   |                    |                                |                                 |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |
| New pathway link between new boardwalk & Riverside Drive path (at northern end of caravan park) 2.2m wide   | \$3,500            |                                | NSC, NVLC, NVCA, NVRUG          | CLD,   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New widened path from RSL precinct to southern end of Fraser Street (2.2m wide)   | \$23,100           |                                | NSC, NVLC, NVCA, NVRUG          | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Create shared pedestrian/local traffic zone western end of Riverside Drive (above Gordon Park) incl. Pavement, bollards, signage, kerbing, crossing | \$120,000          |                                | NSC                             |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Install new pavement along Fraser Street 2.2m wide  | \$41,000           |                                | NSC                             |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New street trees to Fraser Street in pavement (tree surrounds plus grates)  | \$4,000            |                                | NSC                             |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| <b>Precinct Total</b>   | <b>\$7,787,100</b> |                                |                                 |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |

**6.5 Precinct 5 – Gordon Park**

The Gordon Park Precinct is the second precinct that requires major investment for building works and infrastructure upgrades. Similar to The RSL Club Precinct the Gordon Park Precinct is to be implemented in the final years, nine and ten of the masterplan time line.

The Gordon Park proposal includes commercial opportunities for private investors and operators, the extra time allocated allows for these ventures to be organised and confirmed. All works proposed in the Gordon Park Precinct will be undertaken in years 9 and 10.

| Precinct Five Works Proposed Gordon Park  | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works                        | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
|---|---------------|--------------------------------|--|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|
|   |               |                                |  |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |
| Remove existing cadaghi tree & lop some trees at northwest corner of park                                       | \$4,000       |                                | NSC, NVLC, NVCA, Friends of Gordon Park Society (FGPS) | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Install sculptural element & elevated platform at top of park   | \$550,000     |                                | NSC or contractor                                      | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Stepped pedestrian access from shared pedestrian/local traffic zone down to Gordon Park, incl lookout structure | \$800,000     |                                | NSC or contractor                                      | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |



| Precinct Five Works Proposed Gordon Park                                  | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works                        | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|---|---------------|--------------------------------|--|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|   |               |                                |  |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| Remove existing cadaghi tree & lop some trees at northwest corner of park | \$4,000       |                                | NSC, NVLC, NVCA, Friends of Gordon Park Society (FGPS) | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Earthworks to Gordon Park   | \$40,000      |                                | NSC or contractor                                      | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New mixed used development to Gordon Park                                 | \$1,200,000   |                                | Private Business                                       | CLD, NSC   |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install new carparking area to Gordon Park                                | \$76,000      |                                | NSC or contractor                                      | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install new vehicular access to boat ramp at Gordon Park                  | \$160,000     |                                | NSC or contractor                                      | CLD, DNR, EPA, DF                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Realign and install new pavement to boat ramp area at Gordon Park         | \$20,000      |                                | NSC or contractor                                      | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install themed park entry sign  | \$4,000       |                                | NSC, NVT   |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install bollards to park edge within Gordon Park                          | \$28,000      |                                | NSC, NVLC, NVCA, FGPS                                  | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install new pathway to Gordon Park (2.2m wide)                            | \$72,800      |                                | NSC, NVLC, NVCA,FGPS                                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install artwork at Gordon Park entry from carpark                         | \$10,000      |                                | NSC, NVLC, NVCA,FGPS                                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install new picnic shelters to Gordon Park, bbqs,picnic facilities        | \$80,000      |                                | NSC, NVLC, NVCA,FGPS                                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install seats to Gordon Park  | \$40,000      |                                | NSC, NVLC, NVCA FGPS                                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install play/sculptural element to Gordon Park                            | \$80,000      |                                | NSC, NVLC, NVCA, FGPS                                  | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install shade tree planting to Gordon Park (100 litre stock)              | \$3,000       |                                | NSC, NVLC, NVCA, FGPS                                  | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install shade trees to Gordon Park carpark (25 litre stock)               | \$1,000       |                                | NSC, NVLC, NVCA, FGPS                                  | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Feature planting to Gordon Park   | \$28,000      |                                | NSC, NVLC, NVCA, GPS                                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Feature pavement to Gordon Park   | \$210,000     |                                | NSC, NVLC, NVCA, FGPS                                  | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New timber deck at water in Gordon Park                                   | \$180,000     |                                | NSC, NVLC, NVCA, FGPS                                  | CLD, DNR, DF, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |



| Precinct Five Works Proposed Gordon Park                                  | Cost Estimate      | Funding Opportunities & Grants | Organisation to Undertake Works                        | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
|---|--------------------|--------------------------------|--|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|
|   |                    |                                |  |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |
| Remove existing cadaghi tree & lop some trees at northwest corner of park | \$4,000            |                                | NSC, NVLC, NVCA, Friends of Gordon Park Society (FGPS) | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Install platform seats along waterfront                                   | \$15,000           |                                | NSC, NVLC, NVCA, FGPS                                  | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Rock filleting along Wellington Drive                                     | \$30,000           |                                | Riparian Management Services                           | CLD, DF, DNR, EPA, Wetland Care Australia          |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New angle carparking at location on Wellington Drive                      | \$10,000           |                                | NSC or contractor                                      | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Mooring poles on beach section on Wellington Drive                        | \$15,000           |                                | NSC or contractor                                      | CLD, DF, DNR, EPA                                  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Upgrade existing pathway along Wellington Drive to 2.2m wide              | \$120,000          |                                | NSC, NVLC, NVCA, FGPS                                  | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| New seating locations to Wellington Drive                                 | \$18,000           |                                | NSC, NVLC, NVCA, FGPS                                  | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| <b>Precinct Total</b>   | <b>\$3,794,800</b> |                                |  |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |

**6.6 Precinct 6 – Sand Island**

Only very minimal works are proposed within the Sand Island Precinct. These works are programmed for middle of the masterplan timeline and can comfortably be completed with a two year period. All works proposed on the Sand Island will be undertaken in years 4 and 5.

| Precinct Six Works Proposed Sand Island  | Cost Estimate        | Funding Opportunities & Grants | Organisation to Undertake Works | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
|--|----------------------|--------------------------------|---------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|
|  |                      |                                |                                 |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |
| Install mooring poles to Sand Island.  | \$18,000             |                                | NSC or contractor               | CLD, DF, DNR, EPA, NVALC                           |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Install day use area/eco camping location to eastern end of Sand Island.   | \$20000 - \$200 000  |                                | NSC or contractor               | CLD, DF, DNR, EPA, NVALC                           |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| Install low impact nature trail to Sand Island (combination of at ground walking track & low boardwalk) 1.2m wide. | \$45 000 - \$120 000 |                                | NSC or contractor               | CLD, DF, DNR, EPA, NVALC                           |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |
| <b>Precinct Total</b>  | <b>\$18,000</b>      |                                |                                 |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |



**6.7 Precinct 7 –Vee Wall**

The Vee Wall Precinct upgrade are all public works and can be implemented at the early stages of the masterplan time line (Years two and three). These public works upgrade can be accommodated in a two year periods and should aim to be completed in sections outside of holiday periods to minimise impacts of the operation of the area during its busiest time. All works propose din the Vee Wall Precinct will be undertaken in years 2 and 3.

| Precinct Seven Works Proposed Vee Wall  | Cost Estimate | Funding Opportunities & Grants | Organisation to Undertake Works | Authority/Organisation Requiring Concurrence & MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|---|---------------|--------------------------------|---------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|   |               |                                |                                 |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| Install themed entry signage on arrival at V Wall precinct  | \$4,000       |                                | NSC, NVT                        | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install rock filleting just north of V Wall   | \$25,000      |                                | Riparian Management Services    | CLD, DF, DNR, EPA, Wetland Care Australia          |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Upgrade existing toilet facilities  | \$20,000      |                                | NSC, NVCA, NVRUG                | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Earthworks, turfing and replanting to existing eroded drain   | \$10,000      |                                | NSC, NVLC, NVCA, NVRUG          | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install warning signage to V Wall swimming location   | \$1,000       |                                | NSC                             |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Mounding, re-vegetation planting, temporary fencing & signage to existing Casuarinas on V Wall          | \$8,000       |                                | NSC, NVCA, NVRUG                | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Upgrade existing path along southern edge of V Wall   | \$14,000      |                                | NSC, NVCA, NVRUG                | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Realign roadway and install new carparking with 65 car parking spaces & 5 coach spaces                  | \$90,000      |                                | NSC or Contractor               | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New street & carparking tree planting (25 litre stock)  | \$3,300       |                                | NSC, NVCA, NVRUG                | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| New shade trees (100 litre stock)   | \$4,000       |                                | NSC, NVCA, NVRUG                | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Create 'green park' along foreshore including balustrade, turf, shade trees, seating & picnic furniture | \$500,000     |                                | NSC, NVCA, NVRUG                | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install helipad for emergency evacuation  | \$65,000      |                                | NSC, NVCA, NVRUG                | CLD, Emergency Rescue Organisations                |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Re-vegetation planting to existing Casuarinas (south of lagoon)   | \$4,000       |                                | NSC, NVCA, NVRUG                | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Re-vegetate Banksia and Casuarina forest (southeast of caravan park)                                    | \$12,000      |                                | NSC, NVCA, NVRUG                | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |



| Precinct Seven Works<br>Proposed Vee Wall   | Cost Estimate       | Funding Opportunities &<br>Grants | Organisation to<br>Undertake Works | Authority/Organisation<br>Requiring Concurrence &<br>MOU | Time Line |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
|---|---------------------|-----------------------------------|------------------------------------|--|-----------|---|---|---|---|---|---|---|---|----|--|--|--|--|--|--|
|   |                     |                                   |                                    |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| Install themed entry signage on arrival at V Wall precinct                          | \$4,000             |                                   | NSC, NVT                           | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Install elevated steps to dune access   | \$7,500             |                                   | NSC, NVCA, NVRUG                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Create dune access including board & tie, constructed steps, fencing, re-vegetation | \$70,000            |                                   | NSC, NVCA, NVRUG                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Re-vegetation to dune   | \$40,000            |                                   | NSC, NVCA, NVRUG                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Elevated steps to Shelly Beach  | \$250,000           |                                   | NSC, NVCA, NVRUG                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| Upgrade existing Shelly Beach toilets   | \$20,000            |                                   | NSC, NVCA, NVRUG                   | CLD  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| <b>Precinct Total</b>   | <b>\$1,147,800</b>  |                                   |                                    |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |
| <b>Masterplan Total</b>   | <b>\$18,533,160</b> |                                   |                                    |  |           |   |   |   |   |   |   |   |   |    |  |  |  |  |  |  |



## 7. OTHER INFORMATION REQUIRED

### 7.1 Emergency Management Plan

#### PURPOSE

The purpose of this draft emergency management plan (EMP) is to identify areas of existing hazards and increased risk arising from the development of the draft Nambucca River Master Plan proposals. The draft EMP also proposes mitigation measures to manage increased risk to property and the community in regard to fire protection, security, evacuation and access utilising a risk minimisation approach.

#### EMERGENCY RISK MANAGEMENT REPORT

The Nambucca Shire LGA Local Emergency Management Committee (LEMC) prepared the Emergency Risk Management Report in June 2008 to improve community preparedness by developing a community Risk Based Emergency Management Plan. This plan addressed the natural, technological and biological risks that may affect the Nambucca Shire community.

The shire wide EMP considered the risks associated with a range of hazards that, if each hazard occurred, would require a "significant and coordinated emergency response" within the meaning of Section 4 of the State Emergency and Rescue Management Act 1989 (as amended).

For practical reasons, the shire wide EMP is not reproduced in this document, however, the hazard types identified in the shire wide EMP are relative to the NRMP study area. These hazard types are listed below:

| Type              | Risk Rating | Agency | Risk Statement*  |
|-------------------|-------------|--------|--|
| Flood             | Extreme     | SES    | There is a risk that a major flood (1% AEP) could result in a small number of human fatalities and injuries, inundation damage to property (up to 200 houses and 71 businesses) and temporary relocation of up to 500 persons for periods of 3-10 days, damage to infrastructure (road, rail washouts) with short-term disturbance and loss of access, impact on provision of services (power, telephone) loss of commercial activity and loss of agricultural production. |
| Landslip/Rockfall | Extreme     | NSWPF  | There is a risk that a landslip event occurring in Nambucca Heads could cause significant damage to infrastructure and buildings. It may also cause injuries, entrapment and the possible loss of life. Access to and egress from the site may also be impaired.   |
| Tsunami           | Extreme     | SES    | There is a risk that a level IV tsunami could impact on low level coastal areas and low level areas of the LGA, destroying extensive property and infrastructure and utilities, causing significant fatalities and injuries, requiring extensive long-term relocation. Damage to the immediate coastal zone (beach erosion, loss of infrastructure (surf clubs etc), dune system damage), environmental impacts to the estuary may also occur.                             |



| Type                | Risk Rating | Agency | Risk Statement*   |
|---------------------|-------------|--------|---|
| Hazardous Materials | Extreme     | NSWFB  | There is a risk that a HAZMAT incident resulting from road / rail transport accident / industrial incident could result in human fatality, injury or illness from exposure to the material, possible environmental damage, and in particular the threat to waterways and aquaculture, possible site evacuation (usually less than 24 hours), temporary closure of transport link (road, esp Pacific Hwy /rail) requiring detour and causing delay.  |
| Transport Accident  | Extreme     | NSWPF  | There is a risk that a MVA involving a passenger coach / school bus or heavy transport vehicles, or rail incident involving an XPT service could result in multiple human fatalities and injuries, possible stock loss, temporary blockage to road/rail services requiring detour, commuter disruption, environmental damage, with the potential to overload local medical services.  |
| Fire Bush/Grass     | High        | RFS    | There is a risk that a significant bush / grass fire may cause loss of rural infrastructure (buildings, equipment) and impact on the urban interface of towns and villages (Valla Beach, Scotts Head, Nambucca Heads and Hyland Park), and possible fatalities and injuries due to smoke inhalation, and temporary displacement of large numbers of persons. Temporary closure of the Pacific Highway and / or North Coast Rail line is also possible, as is damage to power, sewerage and communications infrastructure. |
| Severe Storm        | High        | SES    | There is a risk that a significant storm may cause a small number of human fatalities and injuries, localised extensive damage to buildings (roofs, verandas, water damage), with the possible need for evacuation of a few people, possible destruction of sheds, localised crop damage, short-term road blockage from fallen trees, loss of power, loss of communications, localised flooding with short-term cutting of roads.   |
| Building Collapse   | High        | NSWPF  | There is a risk that a building collapse could result in some fatalities and a large number of severely injured persons, structural damage to adjacent buildings, relocation of residents and businesses, with corresponding community impacts.   |

\*Shirewide



The Resource Design and Management (RDM) Project Team formed a working group for the purpose of preparing a study area draft Nambucca River Master Plan Study Area Emergency Management Plan (NRMPsaEMP).

The working group comprised the following members:

KEILEY HUNTER, Planner  
 JOSEPH KANE, Planner and Environmental Engineer  
 CHARLES BARNES, Engineer  
 STEVEN CHANNELS, Department of Lands  
 BRUCE REDMAN, Director of Engineering, Nambucca Shire Council

Each precinct within the study area was considered separately. The following is a list of issues that have been identified within each precinct.

### HIGHWAY PRECINCT

- Chemical spill hazard
- Pacific Hwy / Willunga Avenue intersection – pedestrian hazard – crossing to river side of highway. Elderly residents in the precinct. No right turn off highway heading south.
- Halfway point between Sydney and Brisbane. Truck pull off area south of Bellwood Road – may improve once a new truck stop is opened at the proposed highway interchange at north Nambucca. The new McDonalds may increase trucks pulling over in this location.
- Pedestrian fatalities at the Bellwood Road intersection – underpass to Riverside constructed as a result. Memorials located on riverside of the highway.
- The Riverside Drive / highway intersection may come under increased pressure from the new McDonalds store and if a proposed Coles opens in the Bellwood area.
- Traffic lights proposed for Riverside Drive (30 years), Bellwood Road (15 years) if the highway has not been diverted before that time.
- The reserve land behind Bellwood retail precinct is a bushfire risk – two road exits out of the area.
- Pedestrian crossing from VIC to parking area and future mixed use area on the northern side of Riverside Drive.
- Land instability issues from Woodbell Street to Seaview Street

These issues are categorised into the following hazards. Treatment and/or actions that arise from the Nambucca Shire ERMR and the draft NRMP Master Plan are listed in the table below:

| Hazard                | NSC ERMR  | Draft NRMP  | Comments  |
|-----------------------|---|---|---|
| Chemical spill hazard | Pacific Highway upgrading reducing vehicle accidents and incorporating better runoff management | Pacific Highway to be realigned once the highway bypass occurs. Bank revegetation and mangrove protection works will provide better filtration of runoff. | Highway bypass will significantly reduce the likelihood of this hazard occurring. |
| Transport Accident    | Pacific Highway upgrade to dual carriageway (highway bypass is more relevant to the study area) | Highway realignment will provide better/safer 'pull-over / areas.   | Highway bypass will significantly reduce the likelihood of this hazard occurring. |



| Hazard                       | NSC ERMR   | Draft NRMP  | Comments   |
|------------------------------|--|---|--|
| Pedestrian Accident          | -  | Improved pathways and future pedestrian crossings (after highway bypass).   | Highway bypass will significantly reduce the likelihood of this hazard occurring.                                      |
| Bushfire / grassfire         | -  | Increased revegetated areas may increase risk of fire however, proximity to river is a significant mitigating factor. | Bushfire prone land is located on the western side of the highway and not impacted by any proposals in the draft NRMP. |
| Land instability (landslide) | Expand Retaining Wall Construction program to additional at-risk locations | Riverbank revegetation will improve bank stability.   | Employ recommendation made in the Jason Cottages Landslide Remediation Geotechnical Report produce by GHD.             |

### STUART ISLAND PRECINCT

- Access causeway – single lane, floods on king tide – evacuation from Golf Club
- Master Plan proposes new car parking and amenities – result in increased patronage of the area. Need to upgrade culvert crossing.

| Hazard                         | NSC ERMR | Draft NRMP  | Comments   |
|--------------------------------|----------|---|--|
| Flooding/king tides            | -        | Stuart Island Causeway upgrade will reduce the likelihood of the causeway flooding. | The Golf Club evacuates all patrons in the event of a king tide.                               |
| Pedestrian / trailer accidents | -        | Designated trailer parking areas and improved traffic flow.                         |  |
| Boating accidents              | -        | Stuart Island upgrade will increase usage.  | Nambucca Marine Rescue emergency contact details should be clearly visible near the boat ramp. |



## BELLWOOD PARK PRECINCT

- river bank slip zone along the bank at the eastern end of the boardwalk and adjacent to the car park.
- Recommend bank stabilisation using retaining wall treatment – see SMEC report figure D8.
- Riverside Drive flood near Freshwater Creek – alternative route via Seaview and Piggott Streets

| Hazard                       | NSC ERMR   | Draft NRMP  | Comments  |
|------------------------------|--|---|---|
| Land instability (landslide) | Expand Retaining Wall Construction program to additional at-risk locations | Riverbank revegetation will improve bank stability.                         | SMEC report provides recommendations for retaining wall treatment. Employ recommendation made in the Jason Cottages Landslide Remediation Geotechnical Report produce by GHD. |
| Flooding                     | -  | Stormwater management measures will decrease flood occurrence and severity. |   |

## RSL PRECINCT

- landslip and instability along Riverside Drive between Piggott Street and Ellis Avenue – alternative route via Piggott Street, West Street and Dickson Street.
- narrow boardwalk from RSL car park to Gordon Park – emergency access via motel car park or Gordon Park
- new Bowra Street pedestrian crossing/refuge opp Woolworths
- 40 kph speed limit to be extended from CBD through to new crossing
- 10 kph shared zone proposed between Bowra Street and entrance to Woolworths car park in Back Street.
- new linemarking to create a LH turning lane out of Back Street into Bowra Street and a southbound turning lane off Bowra Street into Back Street.
- One access from CBD - Bowra Street through to Gordon Park and Wellington Drive area.

| Hazard                       | NSC ERMR   | Draft NRMP  | Comments   |
|------------------------------|--|---|--|
| Land instability (landslide) | Expand Retaining Wall Construction program to additional at-risk locations | Riverbank revegetation will improve bank stability.<br>No works proposed on northern side of Riverside Drive. | SMEC report provides recommendations for retaining wall treatment. Employ recommendation made in the Geotechnical Report produce by GHD. |
| Pedestrian accidents         | -  | Improved linkages between the CBD and the RSL and Gordon Park areas will increase pedestrian traffic.         | Lower speed limits, turning lanes and the new pedestrian crossing will increase pedestrian safety.                                       |



|                   |   |                                   |  |
|-------------------|---|-----------------------------------|--|
| Boating accidents | - | Boat ramp near RSL to be removed. |  |
|-------------------|---|-----------------------------------|--|

### GORDON PARK PRECINCT

- Unstable area corner Ocean Avenue and Wellington Drive
- river silting near Gordon Park
- widen path between Bowra Street and Gordon Street car park to allow emergency vehicle access.

| Hazard                                  | NSC ERMR   | Draft NRMP  | Comments  |
|---|--|---|---|
| Land instability (landslide)            | Expand Retaining Wall Construction program to additional at-risk locations | No works proposed on northern side of Wellington Drive.   | Employ recommendation made in the Geotechnical Report produce by GHD.           |
| River silting                           | -  | No dredging recommended. Use of shallow drafted craft is the preferred option.                              | Natural occurrence.   |
| Pedestrian / traffic/ boating accidents | -  | Alternative access for emergency vehicles provide within Gordon Park from Wellington Drive to Bowra Street. | Upgraded Nambucca Marine Rescue shed will improve response time and capability. |

### SAND ISLAND

- Nambucca Marine Rescue – VRS located in close proximity to the Sand Island
- Master Plan proposal may increase risk of swimmers, light craft – kayaks, canoes, entering the water at the eastern end of the island. Increased danger from strong currents.

| Hazard                      | NSC ERMR | Draft NRMP  | Comments   |
|-----------------------------|----------|---|--|
| Boating / swimmer accidents | -        | Visitor numbers to Sand Island may increase.  | Upgraded Nambucca Marine Rescue shed will improve response time and capability.                        |
| Flooding / king tides       | -        | Visitor numbers to Sand Island may increase.<br>No increased threat to infrastructure – built elements will be limited to low impact boardwalks and pathways. | Advisory notes to be included in interpretive signage to warn day visitors of tides and flood hazards. |



## VWALL PRECINCT

- Department of Lands (Coastal and Infrastructure) - requires access from the carpark and along the breakwall to carry out remedial work. This could involve moving painted/rocks / armour from the river side of the breakwater as well as replenishing rock at sites of damage / instability along the breakwater. This would require traffic management to exclude the general public while work is being carried out.
- Emergency vehicle access is required along the breakwall. This will require the relocation of the first bench seat and the first light pole to allow sufficient width for a motor vehicle. A small cleared and grassed area is to be provided near the eastern corner of the caravan park to allow an emergency vehicle to turn around.
- The helipad should be a mown grassed cleared area. A marked emergency vehicle pullover bay is provided adjacent to the helipad and remain clear at all times.
- Recent land slip (February 2009) resulting in damage to first floor of a residential flat building in Wellington Drive.
- Localised land instability in Nambucca Heads due to ground moisture conditions and the geology / topography of the headland and ridges can occur usually after extended heavy rain leading to ground saturation. The most significant event was a large landslide / rockfall above the White Albatross Holiday Park where the material reached the accommodation buildings in the park, although no major structural damage or injuries occurred. (*Nambucca Emergency Risk Management Project*, June 2008)
- Continued landscaping works to the rear of properties in Wellington Drive contributing to the risk of further slippage.
- Tree poisoning along the Ridge Street area also contributing to land slippage.
- Power boat / swimmer conflict – danger for propellers - strong currents
- Stairs to the beach near the start of the breakwall should be removed to discourage swimmers
- NESB visitors particular swimming risk.
- Alcohol fuelled problems from the VWall area to Gordon Park
- Headland slippage towards caravan park in mid 1990's – area has been rebenched, shaped and protected with mesh fencing.
- Rock fall near bus area off Wellington Drive in June 2008.

| Hazard                       | NSC ERMR  | Draft NRMP  | Comments  |
|------------------------------|---|---|---|
| Boating / swimmer accidents  | -   | Visitor numbers to the area may increase.   | Upgraded Nambucca Marine Rescue shed will improve response time and capability. |
| Land instability (landslide) | Expand Retaining Wall Construction program to additional at-risk locations.<br>Monitor identified high-risk locations during adverse weather conditions (sustained rain periods or after intense rainfall). | No works proposed on northern side of Wellington Drive.<br>Restrictive covenants on land in Wellington Drive to restrict vegetation removal and landscaping to steep areas. | Northern side of Wellington Drive is considered a high-risk location.           |



|                                   |   |   |  |
|-----------------------------------|---|---|--|
| Transport / pedestrian evacuation | - | Car parking area redesigned to accommodate large emergency vehicles.<br>Helipad to be kept clear at all times.<br>Evacuation route along Wellington Drive to be clearly signposted.<br>Gordon Park to be designated evacuation assembly area. |  |
|-----------------------------------|---|---|--|

## 7.2 Report Limitations

This masterplan has been limited in its outcomes due to the following information not provided;

- Mapping associated with the draft Nambucca LEP 2008,
- Water quality test results and a description of the river and its tributaries,
- Stormwater runoff and drainage strategies,
- Flooding records and flood studies for the river and its tributaries,
- The Final Sea Level Rise Policy Statement to be released from the NSW Department of Environment & Climate Change in June/July. This will provide the required information to determine the Sea Level Rise Benchmark.
- The Hydrology Study for the Nambucca River.



## 8. CONCLUSION

The preparation of the draft Nambucca River Master Plan is the culmination of Council, DECC, Nambucca River Estuary and Coastline Management Committee, community and project team's work over a considerable period of time.

The project team have relied heavily on inputs from all interested groups. These inputs have greatly assisted us to understand and appreciate the vital role the Nambucca River plays in many people's lives. The area is of great significance to Aboriginal people, and more recently, to the early pioneers of the area as a safe haven for shipping and an entry to the further reaches of the river.

The river environment is an important aquacultural resource, it is a nursery for fish breeding and it is a diverse ecological community - the source of many known and, as yet, unknown species. The river is a changing and evolving environment. The river is also a recreational environment and a scenic treasure.

The project team have visited the area on many occasions between December 2008 and May 2009. We have watched and observed and we have listened. We hope we have heard the message correctly, that the river and estuarine environment is loved for what it is; a natural resource.

It is understood that the people of Nambucca Heads wish to retain the coastal character that exists today. This character is low key, restrained, informal, familiar, manageable and accessible. This character is not sophisticated or busy or ostentatious. This character is understood, considered and can be built upon to achieve better environmental, social and economic outcomes for the area.

The draft Master Plan presents a range of design concepts and environmental management elements that recognise the past, present and future character of the area. From simply revegetating natural areas to creating a vibrant riverside precinct on the foreshore near the RSL, the draft Master Plan aims to provide a clear and workable project plan that may be implemented in stages but understood as a holistic master plan.

Some of the key considerations of the draft Master Plan are:

- Boat mooring facilities - upgrades should be focused on the needs of smaller, shallow drafted craft that are best suited to the estuarine environment. Improved facilities for river foreshore landings of day craft are required.
- Waterfront Tourism Promenade - this is best located around the RSL/ Gordon Park precincts rather than Wellington Drive for reasons relating to access, safety, impacts from rising sea levels and better connectivity with the town centre.
- Bowra Street Road Extension - this is not supported due to engineering considerations / costs of construction and environmental impacts to the rainforest area. Improving connections between the town centre and the RSL and Gordon Park precincts is preferred using pathways, signage and a high sculptural element.
- The Hole in the Vee Wall - The Vee Wall is to remain open. Further study is required to better understand the hydrology of the area.
- Dredging - the social benefit of deeper channels may not be sufficient justification for the continued economic burden of dredging.
- Sand Island - low key eco-tourism preferred. Day use and 'walk-in' camping recommended.

The draft Master Plan concept designs have resulted from site visits, consultation, review of past work and the adoption of the above key considerations. The draft Master Plan will now be considered by the working group - Council, DECC and the Estuary Management Committee - and placed on public exhibition for one month.



This is an important opportunity for community feedback. The project team will conduct a public information meeting during the public exhibition period. The public are invited to make submissions to the draft Master Plan and are strongly encouraged to do so.

It is considered that this stage of the project may generate more community interest than previous consultation workshops. Interested people may now review clearly illustrated master plans that present our findings in a legible format.

