



Two Rocks Marina

Reference Group Meeting No. 3 Meeting Minutes

Objective ID: A10547278

Table

Version No.	Date	Prepared by	Revision or issue description	Issued to
0	26/07/2018	A Kelderman	Final for Website Publishing	D. West

Purpose of this Report

This document provides an agreed reflection of the Minutes of the Two Rocks Marina Reference Group No. 3 on June 13, 2018 in Two Rocks.

Agenda

The Two Rocks Marina Reference Group meeting considered the following agenda items:

- Confirmation of minutes and feedback
- Indicative Planning Program
- Seagrass Presentation and Q&A
- Erosion Presentation and Q&A
- General business
- Next meeting, evaluation and close

Presentation

The Two Rocks Marina Reference Group Meeting No. 3 Minutes are attached to this document at Appendix A.

Appendix A

Two Rocks Marina Reference Group Meeting No. 3 Meeting Minutes



Minutes

Two Rocks Marina Reference Group Meeting 3

Date	June 13 2018
Time	6:15pm
Location	The Tavern at Two Rocks, Two Rocks Town Centre
Members	Chair: Mayor Tracey Roberts (City of Wanneroo) - TR Councillor Natalie Sangalli (City of Wanneroo) - NS Donna West (Department of Transport) - DW Fangjun Li (Department of Transport) - FL Mat Selby (Department of Planning, Lands and Heritage) - MS Mark Dickson (City of Wanneroo administration) - MD Mick Bowra (Business Representative) - MBL Commodore Wayne Hartas (Sun City Yacht Club) - WH Brad Lynton (Community Representative) - BL Mark Weir (Business Representative) - MW Elysia Regan (Two Rocks Beach Action Group) Geoff Cameron (Proxy for John Young - Business Representative) GC Nick Perrignon (Business Representative) - NP Jenny Butler (Community Representative) - JB Michael Bower (Business Representative) - MBF Peter Russel (Pen Holder) - PR
Observers/	Stephen Smith (Department of Transport) - SS
Presenters	Anna Kelderman (Department of Transport) - AK

Trent Hunt (MP Rogers) - TH

Rory Ellyard (City of Wanneroo) - RE

Tenaha Wilson (City of Wanneroo) - TW

Apologies Bill White (Two Rocks Volunteer Marine Sea Rescue)

John Young (Business Representative)

Minutes

Previous Actions

Action No	Meeting No	Actions Open	Comments
1.3	1	Plaque on wall in building A or B referencing Australia's Cup history - DoT to search and see if plaque can be found. Plaque to be kept as written history of area – potentially used as feature in future development	Ongoing
1.4	1	DoT to provide greater detail on the purpose and need for the reclamation area at Reference Group Meeting 2	Ongoing
1.5	1	DoT to undertake additional design review for proposed reclamation areas	Ongoing
1.6	1	DoT to provide a presentation of planning process to date, including studies and investigations, and to provide presentation of current concepts.	Ongoing
2.1	2	DoT to publish Minutes	Ongoing
2.2	2	DoT to continue summarising feedback and monitoring Facebook	Ongoing
2.3	2	All members to respect information that is marked not-for-publication	Ongoing
2.10	2	DoT to provide a detailed presentation on the funding/ expenditure allocation and provide details on what is required within the marina in the short term	Ongoing
3.1	3	BL to liaise with AK where clarification is required (social media).	New

3.2	3	Members to contact AK with any concerns (Social Media, other communications)	New
3.3	3	AK to amend previous Minutes to clearly state strong opposition of reclamation from community representatives	New
3.4	3	DoT to amend \$6 million Planned Upgrade 2017-2019 plan on webpage by removing reclamation areas	New
3.5	3	DoT to assess options for maritime industry requirements that could be achieved with no reclamation	New
3.6	3	Members to advise DoT or MBL if any defects are noted in recent works.	New
3.7	3	DoT to investigate safety signage for breakwater area (breakwater safety and seagrass wrack)	New
3.8	3	DoT to continue to provide updates on timing and commitments	New
3.9	3	DoT to amend Opportunities and Constraints Plan and save to webpage	New
3.10	3	Confirm City of Busselton management process (seagrass removal)	New
3.11	3	DoT to consider alternative southern breakwater alignment options and present further research/reports	New
3.12	3	DoT to provide ongoing feedback on bubble curtain trials at Jurien Bay	New
3.13	3	Members to respond to evaluation	New
3.14	3	DoT to consider improved pedestrian access to the south	New
3.15	3	AK to send BL photo of rock plaque and BL to upload image to Facebook page. Members to seek any other feedback	New
3.16	3	DoT to send an email to the Reference Group Members if any works are imminent	New
3.17	3	AK to forward any updates about the next meeting at least 1 week prior	New

Actions Completed			
2.4	2	Reference Group Members to provide feedback by 11 May (for items for Reference Group Meeting no. 3)	Complete
2.5	2	All members to provide any further feedback on the opportunities and constraints plan before 11 May 2018	Complete
2.6	2	DoT to provide comparison metrics of boat harbours	Complete
2.7	2	DoT to provide population numbers and plans per City of Wanneroo presentation	Complete
2.8	2	DoT to provide structure plan links to the Reference Group members	Complete
2.9	2	DoT and BL to circulate posts to Reference Group members before posting	Rescinded (RG3)
2.11	2	DoT to invite FJM Property to Reference Group	Complete
2.12	2	Request Reference Group Members to nominate a pen holder representative and DoT to invite new member	Complete
1.1	1	DoT to prepare information regarding studies and investigations as they relate to design issues/challenges to RG2	Complete
1.2	1	DoT to liaise with CoW regarding inputs to RG2	Complete

Meeting Minutes

Discussion	Action
<p>Welcome/Introductions</p> <p>This item included a brief description of the agenda.</p> <p>The Chair introduced the two new members and welcomed them to the Reference Group</p>	
<p>Confirmation of minutes and feedback</p> <p><u>Minutes:</u></p> <p>BL asked for some clarification on the item in the minutes referring to the Facebook page set up to facilitate community engagement. It was suggested that circulating all proposed posts on the Facebook page to all Reference Group members for approval prior to posting would result in an excessive administrative task, which was acknowledged by members of the Reference Group. BL requested clarification. It was agreed by the Reference Group that:</p> <ul style="list-style-type: none"> - Any information which is released publically (minutes, presentations etc), or any information which is already a matter of public record (structure plans etc), or which is part of a Government media release is suitable to be linked to the Facebook page without prior approval - BL will confer with AK for any information which is not known to be public information - An opportunity also exists to use the page to clarify or confirm statements made by members of the community. <p>On behalf of several members of the Reference Group, JB advised that previous minutes were not supported as they did not clearly state strong opposition to reclamation works. It was agreed that previous minutes would be endorsed subject to amendments stating strong opposition to reclamation.</p> <p>Other works in the marina were also raised as Members have become aware of surveyors in the marina in addition to the recent media release of an awarded tender for pen replacement. Members believed that DoT had committed not to award any further tenders for work within the marina.</p> <p>DW clarified that no further work had been tendered in relation to the reclamation works since the Members had requested this. All works tendered and awarded were described and explained at Reference Group Meeting No. 1 as necessary and urgent repair works and DoT understood that those repair works were acknowledged by the Members as necessary.</p> <p>A presentation to clarify current expenditure and committed (forecast) works follows this item.</p>	<p>BL to liaise with AK where clarification is required.</p> <p>AK to continue to monitor social media</p> <p>Members to contact AK with any concerns</p> <p>AK to amend previous Minutes to clearly state strong opposition of reclamation from community representatives</p>

<p>Members requested:</p> <ul style="list-style-type: none"> - Strong opposition for the reclamation from the community representatives is recorded in the minutes. - Minutes to more clearly reflect the feedback given at the meeting - Minutes to reiterate information provided to Members - Any works or activities occurring in the marina be communicated to the Members so that Members can advise other community members in a timely manner <p>DoT committed to further investigating options for no reclamation within the marina, whilst still achieving maritime industry requirements and potentially allowing for additional land opportunities for tourism or other activities.</p> <p>Minutes as amended were endorsed - moved MW, seconded MS</p>	<p>DoT to assess options for maritime industry requirements that could be achieved with no reclamation</p>
<p>Confirmation of minutes and feedback</p> <p><u>Feedback</u></p> <p>AK provided a brief overview on the ongoing feedback received from the group and the broader community. Unresolved items include:</p> <ul style="list-style-type: none"> - developing a masterplan for the marina; - more information about repairs required and timeline for repairs; - funding breakdown for the current project; - managing seagrass wrack issues; - managing erosion issues; - safety; - public space; and - information about possible aquaculture. <p>AK indicated that several issue would be discussed in the following presentations.</p>	
<p>Confirmation of minutes and feedback</p> <p><u>Repairs, funding and timeline</u></p> <p>DW provided an overview of the existing committed works packages, confirming that all works packages had achieved approvals and been committed to prior to the formation of the Reference Group.</p> <p>The summary of current awarded contracts as follows:</p>	

Works Packages - Committed	Contractor	Total Committed Forecast (ex GST)
Demolish ageing maritime structures (fuel jetty, select boat pens) & Install new relocated boat pens (limited)	Shorewater Marine	\$1,178,535
Upgrade & maintenance to existing P jetty	Broadspectrum	\$16,458
Westlink jetty refurbishment	Broadspectrum	\$398,875
Remove abandoned vessels	Various	\$634,160
Undertake priority breakwater repairs	Ertech	\$468,817
Total		\$2,696,845
	Uncommitted Funds	\$3,303,155

Clarification: The works tabled omitted Priority Building Maintenance works. Spend to date is ~\$75,000, with ongoing repairs forecast in the order of \$140,000 to maintain buildings as fit for purpose.

Based on fluctuations in each of the works packages the remaining uncommitted funds is in the order of ~\$3.1 million

Pens

DW confirmed that pen demolition and maintenance works were urgent repair works as part of the \$6 million upgrade works as described at Reference Group Meeting No. 1 and clarified that any assumption that this work would be delayed was a misunderstanding.

DW clarified that the media statement referred to combined works at Hillarys Boat Harbour and Two Rocks Marina, with the bulk of the announced funding going to Hillarys Boat Harbour. MBL confirmed that surveyors at the marina over the previous weeks were surveying for the pen works.

DW answered some queries regarding the plan presented and clarified latest design elements. Members requested updated plan \$6 million Planned Upgrade 2017-2019 on website to reflect latest agreed works.

Westlink Jetty

DW briefly described the urgency in refurbishing the jetty and providing safer fuelling operations at the marina.

Groyne repair/ safety

DoT to amend \$6 million Planned Upgrade 2017-2019 plan on webpage by removing reclamation areas

DW briefly described the works completed for the priority breakwater repairs. Members sought clarification of a number of items:

- The groyne repair does not include a fully accessible pathway (e.g. for gopher, wheelchair access etc). The track along the breakwater is primarily for maintenance access and is designed to be suitable as such, although DoT does allow for public access to the breakwater recognising the community interest in fishing and enjoyment of the coastal environment. It was noted that the risk of overtopping, spray and strong winds did not make the breakwater suitable for full accessibility.
- Defects and pot holes in the recent breakwater repairs were noted by Members. DW indicated that the works were in a defects liability period and any repairs would be undertaken. It was acknowledged that unusually strong winds and storms occurred during the construction period. Several holes have been reported. DW requested that any other defects noted be reported to DoT/MBL in order to ensure repair. **Clarification: all defects will be actioned at the end of the winter storm cycle to ensure appropriate and efficient use of funding. Any specific matters of immediate safety concern should be raised with DoT**
- Members indicated that the new repairs highlighted how much water comes over the top of the breakwater as spray. DW indicated that the overtopping spray is to be expected. The repair works were undertaken to resolve the risk of water coming through the breakwater and risking the failure of the breakwater in that location. The works have resolved that issue.
- Safety of the breakwater was identified as an issue with the repairs resulting in a large drop on the marina side of the wall. It was suggested that some warning signs should be added regarding both the height of the breakwater and the likelihood of overtopping spray. The City expressed some concern over excess signage. A discussion ensued about user's responsibility in the area and the requirement for the public to assess risk, particularly during winter where weather is unpredictable.
- Members discussed the ease of access that was enjoyed by the community during the period that the southernmost extent of the breakwater was lowered, allowing people to walk more freely to the southern beach from the car park. RE confirmed that the removal of the rock in that location was temporary only to allow for construction access and repairs, and that the rock in this location is an important part of the breakwater function. Recent storms showed that without the rock protection in this location, the water access the marina over the beach near the boat ramp car park which would negatively impact the marina waters. Members

Members to advise DoT or MBL if any defects are noted in recent works.

DoT to investigate safety signage near the breakwater area

<p>expressed interest in seeing easier access to the southern beach in this location in the future.</p> <p><u>Abandoned vessels</u></p> <p>DW answered several questions regarding the extent of and cost of removing abandoned vessels, and briefly described the legal requirements DoT adheres to in seeking removal of vessels.</p> <p>DW indicated that the percentage of abandoned vessels at Two Rocks is quite high compared to other facilities.</p> <p>Members queried the possibility of using the Tasman Explorer as a dive wreck/tourist attraction. Costs, contamination were discussed as issues and other members had previously looked into similar schemes but decided against it due to cost and other implementation challenges.</p> <p><u>Budget</u></p> <p>Members expressed concern that the remaining uncommitted funds would be returned to consolidated revenue if not used within the required timeframe. DW indicated that there is a commitment for the funds to remain allocated to Two Rocks Marina for the near term; however, a decision over funding should be made by mid-2019 to ensure this. DW will continue to provide updates on timing and commitments.</p> <p>DW indicated that DoT would like to continue the process of planning for the marina to ensure that targeted funding can be achieved for future periods.</p> <p>Members acknowledge that a change of Government can change priorities/the plan. TR suggested that additional funding for the marina would be easier to get if linked to jobs creation.</p> <p><u>Summary</u></p> <p>Members requested continued openness and transparency of information in a timely manner.</p>	<p>DoT to continue to provide updates on timing and commitments</p>
<p>Confirmation of minutes and feedback</p> <p><u>Opportunities and Constraints Plan</u></p> <p>AK sought final feedback on the proposed update to the Opportunities and Constraints Plan, noting that the item regarding the limestone retaining wall has been amended. Members indicated that the note regarding the reclamation could be more strongly worded. Note to be amended to read '<i>Strong Community concerns on extent and purpose of proposed reclamation (Masterplan required)</i>'.</p> <p>Members otherwise agreed that the new plan should replace the existing website plan. Ongoing amendments to this plan may occur over time.</p>	<p>DoT to amend Opportunities and Constraints Plan and save to website</p>

Seagrass Presentation

FL provided a presentation regarding the ongoing research and investigation of seagrass wrack, particularly at the southern end of the marina. Since taking over the marina DoT have been collecting data to support potential management measures. These measures could support the existing marina configuration or support redesign of the southern breakwater.

Studies have included aerial photos, shoreline movements, hydrographic surveys, off-shore and on-shore wave measurements, near shore waves, current and water levels, wrack monitoring through field photos and live beach monitoring since 4 July 2017 and geophysical survey to identify buried rock levels.

The ultimate solution concluded from studies is a realignment of the southern breakwater to the ocean side of the existing large rock, encompassing the rock within the marina. However, other solutions investigated or considered have included removing the wrack, capping the wrack, pushing the wrack back into the sea, removing the rock or extending the beach beyond the rock.

Newer technologies being trialled include bubble curtains (Jurien Bay), which may be an option. Members suggested other fabric or rock style curtains.

FL acknowledged the very long periods of wrack accumulation in summer at Two Rocks, which differs to other places around the State which have long periods over winter or all year round for shorter periods. Summer accumulation provides the 'ideal' conditions for the hydrogen sulphide reaction (creating the smell) and also attracts bugs.

FL indicated that DoT is now in a position, with the data collected, to investigate short term options for the wrack management.

Members sought clarification on a number of items:

- Members asked if the weed could be harvested and removed for fertiliser/food/other useable product. It was advised that the Department of Environment does not typically support the removal of the seagrass from the natural environment as it forms part of the ecosystem. NS indicated that CoW has had the same advice but has concerns about the length of accumulation.
- Members indicated that some people walk along the seagrass when it is accumulated which is quite unsafe; people can drop into naturally forming sink holes. Capping with sand would make this more unsafe.
- Members queried if there was a management plan in place. FL indicated that information had not previously been adequate to establish a plan. ***It is noted that the area in question is outside of the harbour reserve and***

DoT to investigate safety signage near the breakwater area

<p><i>management would need to be a partnership approach between the COW and DoT until such time as the harbour reserve is modified.</i></p> <ul style="list-style-type: none"> - Members indicated that the City of Busselton have a regular removal of weed in contradiction of Department of Environment concerns. <i>Clarification: Historically Busselton does not remove the wrack from the marine system, instead relocating it in a different location on occasions where the wrack is not naturally resolved.</i> - Members queried why the wind roses in the presentation showed Ocean Reef. FL indicated that this is because it the closest Bureau of Meteorology wind rose. Previous studies indicate that this rose is substantially accurate for the coast in this area. Placing a new rose in Two Rocks was discussed, however it was acknowledged that the Bureau of Meteorology have no current intention of doing so at this time. - Members queried if there had been any significant studies done or options assessment with engineers to refine the extent of the southern breakwater realignment to reduce cost. FL and DW indicated that the current alignment was the 'best' option which performs the highest. The alignment predicts bypassing of seaweed 90% of the time and limited retention of seagrass. Members requested that DoT consider further options/consideration with costing including lower height breakwater – no buildings – reduce length of breakwater tie-ins, reduce length of breakwater upgrade. - Members requested looking more innovatively at solutions that are cheaper. DW did provide a brief overview of a trila being complete at Jurien Bay of a bubble curtain which is showing promising results. DoT will update the group on the outcomes of the trial as it continues. 	<p>Confirm City of Busselton management process</p> <p>DoT to consider alternative southern breakwater alignment options and present further research/reports</p> <p>DoT to provide ongoing feedback on bubble curtain trials at Jurien Bay</p>
<p><u>Erosion Presentation</u></p> <p>TH provided a presentation regarding the completed studies of erosion in the north of the marina, with a particular focus on possible impacts and management options for an expanded marina.</p> <p><i>It should be noted that TH/MP Rogers have done a study for the City of Wanneroo regarding the erosion to the north under the existing marina arrangements (i.e. no expansion or amendment to the breakwaters) which is a matter of public record. This was mentioned on several occasions through the presentation and a number of slides refer to it as the existing management response.</i></p> <p><i>That report suggests either managed retreat or a series of groynes to the north of the existing breakwater (which would be</i></p>	

the same as a series of groynes to the north of a new breakwater). That report can be accessed at:

http://www.wanneroo.wa.gov.au/downloads/file/1609/two_rocks_coastal_management_report

TH presented new information regard geology and geomorphology in the north, which shows rock at varying levels along the coast, metocean conditions and shoreline and sediment movement. TH acknowledged that new information emerging about the seagrass behaviour at Two Rocks will need to be considered for any groyne option north of the marina (in either the existing or expended scenario).

Management options presented for an expanded marina include managed retreat, sand bypassing options to nourish the beach immediately north of the marina with or without a seawall and a variety of groyne options. It was noted that a new northern breakwater would have the effect of protecting existing housing along Sovereign Drive with impacts moved further to the north.

Cost estimates were provided which include capital costs and mobilisation costs over a 50-year period.

Members sought clarification on a number of items:

- Members sought clarification on a number of design and cost issues such as inclusion of mobilisation costs, length and extent of groynes, and location of groynes from the shore. TH confirmed that the costs were estimates and had some contingency built in. TH confirmed that detailed design would need to occur in order to refine actual size and scale of infrastructure.
- Members sought confirmation on the location of groynes as being outside of the extended marina walls. TH confirmed this.
- Members sought clarification on whether there was a business case for the extension to the north. DW confirmed that it had not been undertaken as the planning is just commencing. **Clarification: a business case would only be prepared subject to support for and agreement of the components of the expanded marina and then following preliminary design. DoT continues to monitor the need for maritime infrastructure through liaison with the fishing and maritime industry, the Perth Boating Study and boat registrations trends.**

General business

Masterplanning

AK provided a summary of DoTs intended next steps for developing a masterplan. DoT intends to involve the Reference Group in consecutive meetings which will consider this topic commencing at the August meeting.

<p>AK indicated that DoT would seek acknowledgement of necessary services investigations at around this time, as services investigations underpin all future works within the marina.</p> <p>AK requested that all members fill in and return the evaluation form which will be forwarded. This evaluation form will help DoT to target the discussions about the Masterplan, ensuring we are all communicating the same expectations.</p> <p><u>Southern Breakwater – Access to the beach</u></p> <p>Members reiterated a desire to be able to reinstate easy pedestrian access between the marina and the beach to the south. As the rocks were only removed for the construction period they have been returned and will need to remain in place. DoT indicated this item would be considered during ongoing design.</p> <p><u>Rock Plaque</u></p> <p>AK indicated that a rock with a plaque on had been relocated during construction works and the location is now not known. The plaque is generally unreadable, and DoT would like to understand the purpose of the plaque. AK requested that BL use the Facebook page to seek advice from the community. <i>Clarification: the location is known, however, the purpose and importance of the plaque is not. Any further advice regarding the plaque would be appreciated.</i></p> <p><u>Southern Breakwater realignment</u></p> <p>Members reiterated a desire to reduce the cost and management in this location to deliver shorter term solutions for the wrack. Queries included trialling the bubble curtain between the rocks, creating a fabric layer or building a rock wall just below sea level to allow water flow without weed accumulation.</p> <p><u>Communication</u></p> <p>Members reiterated the importance of communication. <i>Clarification: Where possible, DoT will send an email to Members when imminent start dates are known. Sometimes weather and other mobilisation factors affect this. At present, there is likely to be a significant amount of work occurring within the marina associated with the various works packages discussed.</i></p> <p><u>Next Meeting</u></p> <p>AK confirmed that the next meeting commences with a site visit at 5pm on July 18. Meeting at the entry to the boat lifter yard, with all Reference Group Members required to sign in to enter the yard. No specific safety clothing is required but dressing for the weather is appropriate.</p>	<p>Members to respond to evaluation</p> <p>DoT to consider improved pedestrian access to the south</p> <p>AK to send BL photo of rock plaque and BL to upload image to Facebook page. Members to seek any other feedback</p> <p>DoT to send an email to the Reference Group Members if any works are imminent</p> <p>AK to forward any updates about the next meeting at least 1 week prior</p>
<p>Close</p>	