

Meeting Title: Marsha Reserve Masterplan Working Group - Meeting 03
Project Title: Marsha Reserve Wastewater Pump Station
Date: 18 September 2023
Time: 7:00 – 9:00pm
Location: John G Tilley Centre

Invitees:

Group member	Role	Present	Proxy
Elliot St Claire	Site neighbour	Yes	
Graham Gibbs	Site neighbour	Yes	
Joanna Henderson	Site neighbour	Yes	
Michelle Perry	Site neighbour	Yes	
Rose Morton	Tea Tree Gully CWMS Action Group and Marsha Drive resident	Yes	
Sarah Linton	Site neighbour	Yes	
Scott Brien	Site neighbour	Apology	
Trevor Camac	Site neighbour	Yes	
Cr Jessica Hawkvelt	Council elected member	Yes	
Cr Lucas Jones	Council elected member	Yes	
Greg Salmon	Manager Project Management Office, City of Tea Tree Gully	No	Erica Vidinis, Strategic Project & Stakeholder Manager
Olivia Savvas MP	Member for Newland	Yes	
Emma Goldsworthy	Manager, Capital Delivery, SA Water	Yes	
Ellie Ridgway	Senior Stakeholder Engagement Advisor, SA Water	Yes	

1. WELCOME AND APOLOGIES

The meeting opened with Steve Dangerfield providing an Acknowledgement of Country.

Apologies were:

- Scott Brien
- Greg Salmon – Erica Vidinis, Strategic Project & Stakeholder Manager attended as proxy.
- Jordan Duke from Landskap.

Welcomes were:

- Ellie Ridgway, Senior Stakeholder Engagement Advisor, SA Water.
- Erica Vidinis, Strategic Project & Stakeholder Manager, City of Tea Tree Gully.

2. ACCEPTANCE OF MINUTES FROM PREVIOUS MEETING

- The Group agreed to email changes to the minutes from meeting two to Andrea Murphy by Friday 22 September.
- The minutes from meeting two will then be uploaded to Water Talks incorporating any changes that are submitted. If there are any changes received that need further clarification or group discussion the minutes will be discussed further at meeting four.

3. BUSINESS ARISING FROM THE MINUTES

- A colour coding system for business arising was introduced. Please see action list below for further information.

- With 30 action items in play, these will be responded to via an information pack sent to the group so that the objectives of the current meeting can be addressed. Landskap and SA Water are looking to undertake a discovery process for two possible sites and this needs to be the focus of the group session.
- Safety, access and inclusion have been added to success factors.
- A request to change the font colour on the issues and success factor slides to make them more accessible was noted.

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4. NOISE

- SA Water undertook a noise survey in December 2022. During this survey three sites were attended by a person who took note of when cars were driving by, dogs barking, etc, as these influence the results. These three sites included two locations on Marsha Drive and one on School Drive. One unattended site within Marsha Reserve was monitored 24 hours a day over seven days.
- The Group asked at the last meeting that baseline noise be measured again, which SA Water has agreed to. This will take approximately a month to organise and take place in mid to late October 2023.
- Additional noise monitoring will take place once the wastewater pump station is constructed.
- The MDHearing chart was shown to the Group and will be distributed to members once more reference data is available.
- The audibility of the pump station at Marsha Reserve will depend on background noise levels, the level of noise generated by the pump, the depth and design of the wet-well, who the listener is, the distance of the receptor from the source and wind conditions.
- Regulations say that noise levels cannot exceed 43 dBA.
- In order for the noise not to be heard at night, the background is measured – 32 dBA to 46 dBA at Marsha receptors.
- If plant noise level = background noise level or is within + 3dBA and both noise characters are the same, then the plant noise will NOT be audible. Plus 5 dBA on background and it may be audible very occasionally to some hearing.
- Steve provided an example of a recent noise assessment undertaken by an independent noise attenuation expert, who assessed the potential of noise at a small pump station in a regional location. Unlike the pump station at Marsha Reserve, the pumps in this pumpstation will not be submersed in water. Background noise at night (exceeding 25 dBA 90% of the time) is expected to almost always be higher than the predicted 22 dBA for the pumpstation at the nearest receptor, meaning that the pumpstation will be inaudible at the closest residence. It was therefore considered not necessary to spend time and resources to further mitigate noise from the pumpstation as it would not be heard based on the current modelling.
- Landskap went to Cinnamon Drive to measure noise, but the surrounding noise from wildlife, vehicles and construction were captured and so it was not possible to provide an accurate noise measure.
- TSA will work with SA Water to identify a like for like pump station that was built within the last five years and look to take noise measurements at night (12:00am) and provide this information to the group.
- Group members who had visited the pump station at Cinnamon Drive indicated that the noise they heard when up close to the pumpstation wasn't offensive.

5. PREFERRED PUMP STATION LOCATIONS

Option A

- After everyone provided feedback on their first and second preferred option at the end of meeting 2 (or in some cases post meeting 2), the clear first preference is the back area of Marsha Reserve, with the majority of the Group indicating this as their preferred locality. This area is known as **Option A**.
- One Group member indicated that their first preference was on the western boundary of the reserve and second preference was at the back of the reserve, rather than the other way around as presented on the diagram. **This will be amended.**
- There were six first preferences and two second preferences for the area at the back of the Reserve.

- The Group discussed issues and opportunities for locating the pump station at the back of the Reserve. The following were highlighted as opportunities:
 - The area could be improved by getting rid of the blackberries and overgrowth, which would also make the area less attractive to snakes
 - If the area is tidied up there will be more room for children to play
 - In this location the pump station would not be visually obtrusive, as it is tucked away and not many people use that area
 - It would not take much to camouflage the pump station in this area.
 - Council already uses the end of Oleander Drive to access to the park for maintenance, so it should be possible for maintenance crews to access the pump station without changing the entrance area too much
 - Rubbish trucks can navigate Oleander Drive so it should be possible for maintenance trucks to access the pump station
 - The area gets very muddy so it could be paved to improve use. Hopscotch and ball game courts could also be placed on a new paved area
 - This location is tucked away, away from front of the park, and having the pump station there would utilise 'dead space'
 - The infrastructure could be configured in such a way so as to enable maintenance trucks to drive through minimising the compound footprint
 - Any trees removed could be used for things like nature play or design to benefit Marsha Reserve or another park nearby.

The following were highlighted as potential issues:

- Concerns regarding wastewater flooding due to the depression in the land in that area. A risk assessment would have to be undertaken
- Maintenance truck access down Oleander Drive could cause a bottleneck and will need further assessment
- One side of the road might need yellow lines painted on it, similar to the current situation on School Drive
- There could be visual impacts for neighbours on Tatiara Drive because their houses are raised above the Reserve. We would need to understand what it would look like from their houses
- Locating the pump station here could be noisy, as people on Marsha Drive can already hear people who live behind the Reserve on Tatiara Drive
- One resident on Tatiara Drive uses a gate onto the Reserve to access their shed. This could be an issue, or it could improve their ability to access their shed
- The stobie pole at the end of Oleander Drive can be an access issue, although trucks did access this area to lay the trunk sewer main
- Construction could block people's driveways and impact on the ability for ambulances to access homes when required
- This location may encourage people to drive across the park, though we can use bollards, etc to impede this
- There are large trees on private properties adjacent to this location that might be impacted, and these will need to be assessed by an arborist
- If we use this option, it will involve removal of some trees. Approval is likely to be required from the State (the State Commission Assessment Panel).
- This location could be an issue because it is near the creek. Council said they would check whether the depression in the land at the back of the Reserve is a drainage line and what overland flow issues exist.

Option C

- Option C is on the eastern boundary of Marsha Reserve and received one first preference and two second preferences.
- The Group discussed issues and opportunities for locating the pump station in this area of the Reserve. The following were highlighted as opportunities:
 - There are minor pine trees in this area so the impact of tree removal may not be so great, although this will need to be assessed especially as it relates to access
 - The play equipment in that area is not used much
 - There is a tree buffer next to side fences which could be retained
 - This location is not in anyone's direct line of sight and area is quite open
 - The trees in front of this location (adjacent to Marsha Drive) can be retained for screening purposes
 - The access road could be pushed to left of Option C rather than right near fence
 - There might be an opportunity to improve visual amenity with vegetation next to fences.

The following were highlighted as potential issues:

- There could be odour concerns during maintenance as this is right next to houses
- Noise from the generator and maintenance trucks could be an issue
- Visual impact could be significantly increased
- This option takes away from area that can be used by kids. It's a usable part of the park and kids run through there
- The path in this area is used regularly.

Option B

- Option B is in the middle of Marsha Reserve and received two second preferences.
- The Group discussed issues and opportunities for locating the pump station in this area of the Reserve. The following were highlighted as opportunities:
 - In this location it could be easier for trucks to access and the playground could be moved
 - Previous consultation undertaken by Council indicated that Marsha Reserve is much preferred over Oleander for the location of a playground, but residents have asked whether relocating the playground is an option.

The following were highlighted as potential issues:

- The topography of this area drops off quickly behind the playground and could make construction difficult
- This could pose a safety issue for kids at the playground
- A major redesign would be required for the playground
- This could involve losing a lot more trees (possibly significant trees) because of access requirements
- It would be much more difficult to get services (power, intake and outfall pipes) located here
- Residents don't want to have to wait years for a playground to be reinstalled
- This option would result in a wastewater pump station with a playground attached, rather than the other way around
- Centralising it divides the park and people will find it more difficult to be able to keep an eye on their kids using different areas of the Reserve.

Option D

- Option D is on the western boundary of Marsha Reserve and received one first preference and two second preferences.
- The Group discussed issues and opportunities for locating the pump station in this area of the Reserve. The following were highlighted as opportunities:

- In this location it may not cost as much to build (subject to the screening treatments that may be required)

The following were highlighted as potential issues:

- This area has topography issues and could require redesign of terrain and retaining walls
- Access requirements would take out a lot of trees
- Two large regulated trees would be impacted in this location
- This location is very visible from school drive and the neighbouring property
- Koalas live in the trees in this area
- If this was the location of the pump station it would be better for it to be near the front of the Reserve, but this impacts to the frontage of the entire park and would not be good for property value
- The back area of this location floods
- This location is entirely visible to the neighbouring property (27 Marsha Drive) from both inside (the windows along the boundary) and outside (the raised back deck)
- The adjacent trees are inhabited/utilised by koalas, possums and native birds (nesting lorikeets)
- No location on the western boundary is ideal - the front of the reserve impacts on the frontage of and access to the usable area of the park, and further back impacts the site neighbour's house view/property value/enjoyment and is also at increased risk of flooding.

6. SECOND PREFERENCES FOR PUMP STATION LOCATION

The Group was asked to vote again on their second preference for the pump station location, based on the above discussion and it was the preference from the team to take only a first and second preference into the site visit if possible. The results will be tallied and presented at the site visit.

ACTION REGISTER

	Action	Responsible	Dated raised	Date due	Status
1	Members to review draft TOR and refer any requested changes to Andrea to update and re-issue.	All	21/08/23	10 days	Closed
2	Meeting minutes and copy of presentation to be provided to working group	TSA	21/08/23	31/08/23	Closed
3	SA Water to provide more information at the next meeting regarding odour	SA Water	21/08/23	ASAP	Closed
4	SA Water to provide more information at the next meeting regarding noise	SA Water	21/08/23	Ongoing	Open
5	Maintenance regularity and truck size requirements – while it is understood that worse case a 12.5 metre truck with integrated crane needs to attend site, is it possible to explore other options and configurations whereby smaller vehicles and cranes can be used as this will impact access design	SA Water	21/08/23	ASAP	Closed
6	Size of WWPS footprint relative to the overall size of the reserve	Landskap, Council and SA Water	21/08/23	Ongoing	Open

Minutes.

7	Arborist report to be presented at next meeting	Landskap	21/08/23	04/09/2023	Closed
8	Minutes from meeting 1 to be placed on the Water Talks website	TSA/SA Water	4/9/23	ASAP	Closed
9	Final TOR to be distributed and placed on Water Talks website	TSA/SA Water	4/9/23	ASAP	Closed
10	Determine whether advance notice of maintenance can be provided to residents	SA Water	4/9/23	ASAP	Response provided
11	Determine whether further baseline noise levels can be measured in the vicinity of Marsha Reserve and also once the pump station is installed	SA Water	4/9/23	ASAP	Closed
12	Obtain a noise measurement for the WWPS at Cinnamon Avenue and research any specifications for the Marsha Street Pump Station that might provide an understanding of the noise anticipated from the pump station when constructed and operating (this includes accounting for the pump operating below water in a sealed concrete chamber).	TSA/Landskap/SA Water	4/9/23	ASAP	Open
13	ESCOSA / EPA / SA Health regulation rules and conditions that cover spills / noise / odour / service continuity to be provided	TSA	4/9/23	ASAP	Response provided
14	Determine whether Maxley reserve on Golden Way is a better pump station comparison than Cinnamon Ave	TSA	4/9/23	ASAP	Response provided
15	Perform a search on their customer feedback system in relation to past complaints about pump stations	SA Water	4/9/23	ASAP	Response provided
16	History of the area to be considered when developing design ideas and feature elements for the reserve	Landskap	4/9/23	As part of draft masterplan	Open
17	Confirm if the wet well needs to be deeper at the rear of the reserve requiring a larger truck for maintenance purposes	SA Water	4/9/23	ASAP	Response provided
18	Explain policy in relation to connecting a generator to the pump station in the event of a power outage	SA Water	4/9/23	ASAP	Response provided
19	Provide further information about wastewater overflows and preventative maintenance relative to the proposed WWPS at Marsha Reserve	SA Water	4/9/23	ASAP	Response provided
20	Explain what constitutes 'extreme circumstances' in the case of wastewater flooding	SA Water	4/9/23	ASAP	Response provided
21	Provide further information about what the odour units are for emptying a septic tank as opposed to pump station maintenance	SA Water	4/9/23	ASAP	Response provided
22	Explain whether Green Domes constantly expel air	SA Water	4/9/23	ASAP	Response provided

Minutes.

23	Provide further information on what makes up the 175sqm footprint in addition to the access area	SA Water	4/9/23	ASAP	Open
24	Further information to be provided about what portion of the infrastructure will be screened	SA Water/TSA/Landskap	4/9/23	Ongoing	Open
25	Advise on the age of the pump station at Cinnamon Avenue	SA Water	4/9/23	ASAP	Response provided
26	Project Issues – with respect to the broad community objective which sits above the issues list, add that amenity improvements are also to be made to the Park	TSA	4/9/23	ASAP	Closed
27	Success factors - Safety - add casual surveillance and fencing interfaces should be considered.	TSA	4/9/23	ASAP	Closed
28	Success Factors - Access and inclusion in relation to park upgrade be added to success factors.	TSA	4/9/23	ASAP	Closed
29	Determine distances that plant and equipment can be separated so as to provide options with respect to park placement.	SA Water	4/9/23	ASAP	Open
30	Council to advise on the status of the creek/drainage reserve at the back of the Marsha Reserve.	Council	4/9/23	ASAP	Open
31	The Group to email changes to the minutes from meeting two to Andrea Murphy by Friday 22 September	Group members	18/9/23	Friday 22 September	Closed
32	Change the font colour on the issues and success factor slides to make them more accessible	Landskap	18/9/23	ASAP	Closed
33	Circulate the MDHearing chart to the Group once more reference data is available	TSA	18/9/23	ASAP	Open
34	Gain an understanding of what a pump station at the back of the reserve would look like from properties on Tatiara Drive backing onto the Reserve	TSA	18/9/23	ASAP	Open
35	Get arborist to assess large trees on private properties adjacent to the back of the Reserve	Landskap	18/9/23	ASAP	Open