

Cottesloe Ocean Pool

Feasibility Study Report - Stage 1

10/09/2018

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West Perth WA 6005
Australia

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WorleyParsons Group





Synopsis

This report presents the results of Stage 1 of a Feasibility Study for an ocean pool to be located in Cottesloe. The study is carried out for the Town of Cottesloe and consist of an assessment of three proposed ocean pool schemes including a financial assessment as well as community consultation.

The report also provides the further steps to be taken to develop an ocean pool.

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Appendix C Artist Impression - Land Based Pool near Eric Street



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Appendix D	Summary Table
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Appendix F	Info on Geothermal Heating
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Executive Summary

The Town of Cottesloe has engaged Advisian to execute Stage 1 of a Feasibility Study for an ocean pool to be located in Cottesloe.

As part of the study as presented in this report, the feasibility of three proposed options have been assessed, which are:

- Option 1: An ocean pool north of the Cottesloe groyne (see Appendix A)
- Option 2: An ocean pool south of the Cottesloe groyne (see Appendix B)
- Option 3: A land based saltwater pool near Eric Street (see Appendix C)

Review of the three assessed schemes

The results of the assessment are summarised in the table in Appendix D, listing the positive features as well as the key concerns for each of the three assessed schemes. The key concerns identified include the following:

Option 1: An ocean pool north of the Cottesloe groyne

- Lack of new amenities, increasing pressure on existing facilities;
- Significant distance from main car parks, potentially reducing the accessibility for certain user groups;
- Depending on chosen level, rock structure may block the view of ocean and horizon which may affect the experience of swimmers and beachgoers;
- Self-flushing capacity to be confirmed in detailed studies to guarantee clean swimming water all year around;
- Pool may be difficult to clean from potential ingress of sand and sea wrack over time and due to storms;
- Although not at boundary: the proximity of pool to aboriginal heritage area (Moondoorup Rocks) may be an issue in approval process;
- Pool may impact on existing activities, including surfing.



Option 2: An ocean pool south of the Cottesloe groyne

- Heritage issues, as the pool is located partly or in adjacent to (depending on the definition of the area) aboriginal heritage land, Moondoorup Rocks;
- Environmental issues, as the pool to be constructed in the intertidal area of a reef located in a marine protection zone. Potential impact to the reef area due to geotechnical investigations and construction activities.
- High exposure to the seabreeze during the summer months;
- Significant distance from main car parks, reducing the accessibility for certain user groups;
- Uncertainty in suitability of existing reef as foundation of a pool: expensive geotechnical field investigation required which may indicate the need for expensive piled foundation of the pool;
- Isolated location may invite undesired activities during after-hours;
- Due to construction on the reef, returning the site to previous state in future would not be possible.

Option 3: A land based saltwater pool near Eric Street

- Location in a more urban environment than the other options with proximity to road and amenities will give it less of an ocean pool swimming experience;
- Potential future coastal erosion may affect pool structures and other assets built near the coastline. This may need mitigating measures in time such as coastal protection if pool foundation does not extend to Tamala limestone.

Financial Assessment

Whole of life costs have been determined for the three options. A summary of these is presented in the table below. Section 4 provides details how these values have been derived including assumptions.

Description	Option 1 Million AUD	Option 2 Million AUD	Option 3 Million AUD
Capital Cost	7.5	8.6	10.3
Operating Cost	4.2	10.8	21.6
Other Whole of Life Cost	3.3	1.0	1.0
Abandonment	2.8	3.2	3.9
Escalation	Excluded	Excluded	Excluded
Total Cost	17.7	23.7	36.8

It should be noted that the proponents for all 3 assessed options have advised that they have funding options available. Therefore, costs for a future facility to be carried by the community (for instance directly as entrance fees or indirectly as council rates) do not have to relate to the construction and operational cost of the assessed options.



Community Consultation

Advisian’s scope of work included community consultation. Following the development of the Stakeholder Engagement Plan (SEP), a community consultation workshop took place on 21 July in Cottesloe to present the 3 investigated options to the community and the results of the assessment. Subsequently, an online survey was held to understand if an ocean pool was wanted by the community and if so, which option was preferred.

From the survey it was found that almost 80% of all 1249 respondents were in favour of having an ocean pool, 18.5% were against.

Regarding to the question to rank the options in preference, the result is presented below.

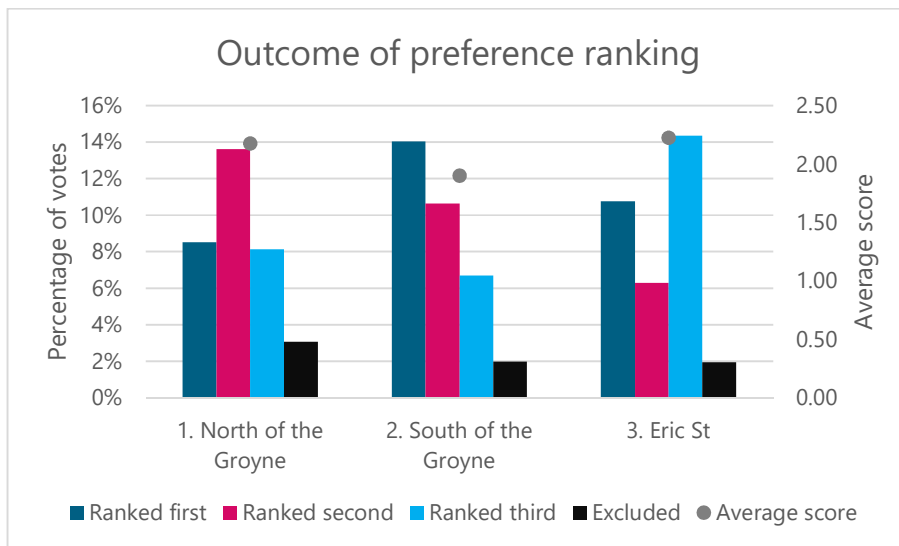


Figure 1-1: Order of preference for each ocean pool option

The results show clearly that Option 2 is preferred by the community. Not only did it have the lowest (i.e. most preferred) average score, it was also most often ranked as first and least as third preference. Furthermore, it received a low percentage of exclusions (where responders did not assign the option with a ranking position).

Option 1 was ranked second overall by average score, and received the greatest number of second place rankings. However, this option was ranked first the least and is associated with highest percentage of exclusions. When combined with the nature of comments provided, this option is considered controversial.

Option 3 has a similar average score as Option 1, but was ranked first more often than Option 1 and had fewer exclusions. Although it was ranked third the most, the nature of the comments received indicate that it is less controversial than Option 1.



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Conclusion

Based on the assessment of the three options it can be concluded that although Option 2 was assessed to have a significant number of concerns, this option is preferred by the community.

Way forward

In order to develop the Cottesloe ocean pool, it is envisaged that the design and approval process will need the second stage of the feasibility study and a detailed design study, to be followed by tendering and construction of the pool.



1 General

1.1 Introduction

Advisian has been appointed by the Town of Cottesloe (ToC) to undertake Stage 1 of a Feasibility Study for an ocean pool to be located in Cottesloe.

The objective of the Feasibility Study is to inform the ToC whether an ocean pool is desired by the community and what would be an optimal location for the development of an ocean pool. Note that in the context of this report the word 'ocean pool' relates to a pool constructed in or near the ocean.

The scope of this high-level study consists of an assessment of three proposed ocean pool schemes or options, a financial assessment and community consultation. This report presents the results of the feasibility study. A separate Stakeholder Engagement Plan (SEP) has been developed.

The ocean pool options to be assessed in this study have been provided by ToC. Although other options exist or could be developed, no alternative pool options have been considered as part of this study. The provided pool options for assessment in this study are the following:

- Option 1: An ocean pool north of the Cottesloe groyne (see Appendix A)
- Option 2: An ocean pool south of the Cottesloe groyne (see Appendix B)
- Option 3: A land based saltwater pool near Eric Street (see Appendix C)

Advisian is assessing the feasibility of these options by considering:

- Planning approvals,
- Environmental factors,
- Aboriginal and European heritage,
- Geotechnical, civil and coastal engineering, and
- Financial assessment.

1.2 Background on Ocean Pools

Ocean pools can be found in many places around the world. In Australia there are approximately 90 ocean and estuary swimming pools, most of them in New South Wales (NSW). These are often constructed on rocky shelves or in sheltered corners of a beach. Some of them, such as Bronte's bath and Bondi Baths, date from before 1900 and a many of the pools were constructed during the 1930's depression, coupling shark fears with a high level of unemployment. Just along the Sydney coastline, from Palm Beach in the north to Cronulla in the south, are about 35 ocean pools. These are mentioned as major attractions. No such ocean pools exist in Western Australia.



Although existing pools have been upgraded and some non-tidal pools have been constructed, no new tidal rock pools have been built in NSW since the 1960's and new swimming developments consisted of inground swimming pools and aquatic centres. These were considered more hygienic, easier to clean at predictable times, unaffected by tides and generally safer. Another reason that no new ocean pools have been built since then may be that the attitude towards the coastal environment had changed, with more focus on preserving the rocky shore, resulting in a stricter application processes. Furthermore, the changed view on public liability may play a role.

1.3 History of the Cottesloe Ocean Pool

Cottesloe is a popular beach location and surf spot in Western Australia. Due to the presence of sharks and a fatal shark attack in 1925, an attempt was made in the 1930's to create a shark-proof pool. The pool would involve concrete pylons to carry cables on which shark nets would be hung. Construction progressed slowly due to supply and funding issues and eventually three concrete pylons were constructed in 1935. Storms in 1936 and 1937 however severely damaged the shark-proof pool under construction, including two of the three pylons. The remaining pylon is currently regarded as a significant historic monument. (information sourced from <https://allintooceanpoolsinc.org> website).

In later days a 'kiddies pool' was constructed at the North side of the groyne, which was well used, especially during the summer protected from the seabreeze by the groyne. Water for this pool was sourced by a bore. The pool was eventually closed over concerns about the water quality and was subsequently demolished. (information sourced from interview with Tom Locke).



Figure 1-1 Former kids pool located just north of the groyne at Cottesloe

In May 2000 a swimmer, Ken Crew, was killed in a shark attack in waist deep water a few yards from the shore. Mr Crew's death was observed by over 100 people from the beach and was the first fatal shark attack in the Perth area for 30 years. This triggered a renewed interest in a shark free swimming area for Cottesloe and the action group Ocean Pools Western Australia (OPWA) was formed at that time. Since then, another fatal shark attack occurred 350 m off Cottesloe beach in 2012. Several groups of people have developed ideas for ocean pools over the years, but none of them have made it to a detailed design or construction stage for various reasons.



2 Introducing the Ocean Pool Schemes

2.1 Option 1 – Ocean Pool North of Cottesloe Groyne

This concept was initiated by the action group Ocean Pools Western Australia (OPWA), which includes proponents Tom Locke, Professor Jorg Imberger and Professor John Bloomfield. The OPWA has been advocating an ocean pool since the early 2000’s. This concept consists of a rock construction added on to the existing groyne at Cottesloe, creating a closed off basin at the northern side of the groyne. The ocean pool is accessible from the beach.

The concept has a swimming lane length of 25 and a length of approximately 75 from the beach and includes a coaching and officials area, starting boards, steps, lane ropes (for races only), a turning board, a water polo area and a universal access ramp connected to the existing universal access path.

This concept is designed to have natural flushing of the water through the rock and additional culverts and studies have been conducted by students of professor Imberger to investigate this flushing behaviour as well as the influence of the increased groyne structure on the wave climate.

An artist impression and the location of this scheme are presented in the figures below and in Appendix A.



Figure 2-1 Concept and location of Option 1



2.2 Option 2 – Ocean Pool South of Cottesloe Groyne

This concept was developed by architect Trevor Saleeba as a reaction to the other options currently investigated. The option appeared in a newspaper article in February 2017.

This option is located on the rock/reef shelf just south of the existing groyne.

This concept features a 50-m pool with 8 lanes, a widened area for adult recreation / therapeutic swimming, a dedicated kids pool (approx. 21 x 10.5 m), tiered seating, a control building with access control, lifesaving, kiosk, lockers and toilet and disabled access directly off the existing universal access path.

An artist impression and the location of this scheme are presented in the figures below and in Appendix B.



Figure 2-3 Concept and location of Option 2



2.3 Option 3 – Land Based Pool near Eric Street

This concept consists of a land-based saltwater pool complex developed by Chris Shellabear as part of a foreshore 'renewal' plan. The option appeared in a newspaper article in January 2017.

The pool complex is to be located near the Eric Street entrance to Cottesloe situated next to Barchetta, the Blue Duck and North Cottesloe Lifesaving Club and opposite of the Ocean Beach Hotel.

The complex consists of a 10-lane lap pool, a water polo pool and a settling pool to remove settleable matter and/or reduce turbidity of the water pumped in. The main pool is located approximately 5m above ocean level and the pools are situated along a landscaped promenade and an elevated boardwalk. The pool complex is situated in a location in close proximity to pre-existing change rooms and cafes which are open all year round.

An artist impression and the location of this scheme are presented in the figures below and in Appendix C.



Figure 2-4 Concept and location of Option 3



3 Review of the Proposed Existing Schemes

3.1 Review Process

A number of brainstorm sessions were held to discuss the schemes and to assess them for areas of concerns and potential flaws. The assessment included team members representing a variety of disciplines, including civil engineering, coastal engineering, environmental consulting, stakeholder management, geotechnical engineering, architecture and heritage. Where a concern was raised it was endeavoured to provide a mitigation or solution.

The following sections present the findings for each of the areas considered for the three schemes.

3.2 Planning Approvals

The proposed pools are located partially within State Marine Waters and the Town of Cottesloe. The area is currently zoned "Waterways" (below the high-water mark) and "Parks and Recreation" (above the high-water mark) under the Metropolitan Region Scheme. All three proposed pool structures have elements below as well as above the high-water mark. Table 3-1 details the planning approvals that may be required for the proposed pools and the likelihood (unlikely, possible or likely) that a particular approval will be required to either of the three assessed options.



Table 3-1 Planning approvals

Stakeholder	Legislation	Permit/approval/other requirement	Option 1 - Ocean pool north of groyne	Option 2 - Ocean pool south of groyne	Option 3 - Land based pool near Eric Street
Commonwealth					
Department of Environment and Energy	Environment Protection and Biodiversity Conservation Act 1999	<p>Permission is required under the EPBC Act if a proposal has a significant impact upon specified "matters of national environmental significance", or Commonwealth lands. If the impact of the proposal is considered potentially significant the established procedure is to refer the proposal to the Commonwealth to determine whether the proposal represents a "controlled action" requiring a detailed environmental impact assessment.</p> <p>A search of the protected matters search tool for Matters of National Environmental Significance (MNES) did not reveal any world heritage properties, national and commonwealth heritage places, wetlands of international importance or commonwealth marine areas within 2 kilometres of the proposed pool options. Campbell Barracks, Swanbourne, listed commonwealth land, would not be impacted. Listed marine fauna species (discussed in Section 3.3.2) are unlikely to be significantly impacted by the proposed pool options.</p>	Unlikely	Unlikely	Unlikely
Department of Environment and Energy	Aboriginal and Torres Strait Islander Heritage	The Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (ATSIHP Act) can protect areas and objects that are of particular significance to Aboriginal people. The ATSIHP Act allows the Environment Minister, on the application of an Aboriginal person or group of persons,	Possible	Likely	Unlikely



Stakeholder	Legislation	Permit/approval/other requirement	Option 1 - Ocean pool north of groyne	Option 2 - Ocean pool south of groyne	Option 3 - Land based pool near Eric Street
	Protection Act 1984	to make a declaration to protect an area, object or class of objects from a threat of injury or desecration. The emphasis here is on the words "particular significance" that could be assumed applies to the site outlined in Section 3.4. Usually Aboriginal custodians will only seek protection under this Act if processes under the Aboriginal Heritage Act 1972 have been followed and the outcome does not meet with their expectations.			
National Native Title Tribunal	Native Title Act 1993	The relevant requirements of the Native Title Act 1993 need to be met for the grant of any new tenure. In this instance the Whadjuk People Indigenous Land Use Agreement would apply if land or waters have not been deemed extinguished under the Native Title Act 1993.	Possible	Possible	Possible
State/Local					
Department of Planning, Lands and Heritage	Aboriginal Heritage Act 1972	Permission is required under s.18 if the proposed activities have the potential to disturb Aboriginal heritage. The established approach is to assess the risk that activities will result in disturbance of Aboriginal heritage. If likely disturbance is identified, and is unavoidable, then permission must be sought. After consultation with DPL&H it is likely an "Activity Notice" under the Noongar Standard Heritage Agreement would have to be lodged with the South West Aboriginal Land and Sea Council (SWAL&SC) who administer the various agreements under the Whadjuk People Indigenous Land Use Agreement. If deemed necessary by SWAL&SC it is likely heritage assessment will be required with Aboriginal informants together with an anthropologist and potentially an archaeologist. This would lead, in at least one area, to an application under	Possible Refer to Section 3.4.1	Likely Refer to Section 3.4.1	Unlikely



Stakeholder	Legislation	Permit/approval/other requirement	Option 1 - Ocean pool north of groyne	Option 2 - Ocean pool south of groyne	Option 3 - Land based pool near Eric Street
		<p>s18 of the Aboriginal Heritage Act 1972 and tabling of the application with the Aboriginal Cultural Materials Committee. The Committee will make recommendations to Minister for Aboriginal Affairs in relation to the allowance of disturbance and the management of any disturbance if allowed to proceed.</p> <p>It is established practice during construction to adopt procedures to monitor ground disturbance in case previously unknown Aboriginal heritage is encountered. This again involves consultation with SWAL&SC.</p>			
<p>Department of Water and Environmental Regulation</p>	<p>Environmental Protection Act 1986</p>	<p>Significant proposals, that is proposals that would have a significant impact upon the environment in Western Australia, must be referred to the Environmental Protection Authority (EPA). The EPA publishes guidance for proponents to be used to decide if a proposal is significant. The EPA considers the referral and decides whether to assess the proposal and the level of assessment to be undertaken, whether with or without public review.</p> <p>If a proponent has not referred a proposal to the EPA there is a risk that third parties may do so if they consider the proposal to be significant. It is established practice to manage this risk by either: (a) consulting EPA assessment officers for advice on whether to make a referral, or (b) submitting a referral in order to achieve certainty through a published EPA decision.</p>	<p>Unlikely</p>	<p>Possible Refer to Section 3.3.1</p>	<p>Unlikely</p>
<p>WA Planning Commission</p>	<p>Metropolitan Region Scheme</p>	<p>The proposed pools are located in a Region Scheme Reserve (zoned 'Parks and Recreation' and 'Waterway'). The provisions of the Metropolitan</p>	<p>Likely</p>	<p>Likely</p>	<p>Likely</p>



Stakeholder	Legislation	Permit/approval/other requirement	Option 1 - Ocean pool north of groyne	Option 2 - Ocean pool south of groyne	Option 3 - Land based pool near Eric Street
and/or Cottesloe Council		<p>Region Scheme continue to apply to such Reserves. Approval is required under the Metropolitan Region Scheme from the Commission for the commencement or carrying out of any use or development on a Regional Reserve unless the authority to approve has been delegated to the local council, as is the case here.</p> <p>The proposals would also likely need to be referred to the Department of Planning, Lands and Heritage prior to determination.</p>			
Department of Water and Environmental Regulation	Environmental Protection (Clearing of Native Vegetation) Regulations 2004	A permit is required unless the clearing is of a type exempted through the Act or Regulations. For this proposal no exemptions have been identified.	Unlikely	Possible Refer to Section 3.3.1	Possible Refer to Section 3.3
Department of Planning, Lands and Heritage	Heritage of Western Australia Act 1990	When undertaking certain works impacting places/items on the State Register, a development referral is required under the Heritage of Western Australia Act 1990. The development referral is submitted to the decision-making or determining authority, in this case the WA Planning Commission and/or Cottesloe Council, which forwards the referral to the Department, or in some cases, the Heritage Council, where it will be considered.	Likely Refer to Section 3.4.1	Likely Refer to Section 3.4.1	Unlikely



3.3 Environmental & Sustainability Aspects

3.3.1 Overview of Impact on Environmental Factors

An overview of the potential construction and operational impacts of the three proposed pool options on relevant environmental factors are described in the following sections. Relevant environmental factors assessed are based on ‘the Statement of Environmental Principles, Factors and Objectives’ (Environmental Protection Authority 2016). Table 3-2 lists the environmental factors and their relevant objectives and if and how they apply to the proposed pool options.

Table 3-2 Environmental factors and their objectives (EPA 2016)

Environmental Factor	Objective	Comment
SEA		
Benthic Communities and Habitats	To protect benthic communities and habitats so that biological diversity and ecological integrity are maintained.	Refer to Section 3.3.2
Coastal Processes	To maintain the geophysical processes that shape coastal morphology so that the environmental values of the coast are protected.	Refer to Section 3.7
Marine Environmental Quality	To maintain the quality of water, sediment and biota so that environmental values are protected.	Refer to Section 3.7
Marine Fauna	To protect marine fauna so that biological diversity and ecological integrity are maintained	Refer to Section 3.3.3
LAND		
Flora and Vegetation	To protect flora and vegetation so that biological diversity and ecological integrity are maintained.	<p>The proposed ocean pools north and south of the groyne would not impact terrestrial flora and vegetation (i.e. terrestrial vegetation is not present at either location).</p> <p>The proposed land based pool near Eric Street would be located on sand dunes with some native coastal vegetation commonly found along the coast, including north and south of the proposal site. A search of the DBCA Nature Map database did not identify any threatened terrestrial flora and/or threatened communities within or in vicinity of the proposed site. While this option would require the removal of some limited amount of native vegetation, potential impacts are unlikely to be significant. A clearing permit under the <i>Environmental Protection (Clearing of Native Vegetation) Regulations 2004</i> is likely to be required.</p>



Environmental Factor	Objective	Comment
Landforms	To maintain the variety and integrity of distinctive physical landforms so that environmental values are protected.	Refer to sections 3.5 and 3.7
Subterranean Fauna	To protect subterranean fauna so that biological diversity and ecological integrity are maintained.	None of the proposed pool options are located in areas where subterranean fauna would occur and be impacted (i.e. stygofauna – aquatic and living in groundwater; troglofauna – air-breathing and living in caves and voids).
Terrestrial Environmental Quality	To maintain the quality of land and soils so that environmental values are protected.	The proposed ocean pools north and south of the groyne would not impact the quality of any soils. The proposed land based pool near Eric Street would be located on the sand dunes and/or previously disturbed surfaces and are unlikely to substantially impact soils.
Water		
Hydrological Processes	To maintain the hydrological regimes of groundwater and surface water so that environmental values are protected.	The three proposed pool options are located along the coast away from any water courses and are unlikely to impact the hydrological regime of surface waters or result in potential flooding impacts. They are also unlikely to impact the groundwater at the three locations.
Inland Waters Environmental Quality	To maintain the quality of groundwater and surface water so that environmental values are protected	Due to their coastal location, the three proposed pool options are unlikely to impact groundwater or inland surface waters during construction or operation.
Air		
Air Quality	To maintain air quality and minimise emissions so that environmental values are protected.	The operation/use of the three proposed pool options are unlikely to have adverse impacts on air quality. Some temporary impacts to air quality during construction may result and these are discussed in Section 3.6.
People		
Social Surroundings	To protect social surroundings from significant harm.	Refer to sections 3.4, 3.5 and 3.6
Human Health	To protect human health from significant harm.	This factor deals with potential radiation impacts and is therefore not relevant to any of the proposed pool options. Other issues that have a potential to impact health are dealt with in sections 3.6 and 3.7 (e.g. noise and water quality).



3.3.2 Benthic Communities and Habitats

Existing environment description

The three proposed pool options are located wholly or partially within the Cottesloe Fish Habitat Protection Area (FHPA). The Cottesloe Reef FHPA encompasses the coastal waters of the Indian Ocean and includes the Cottesloe Reef system, from North Street Cottesloe to the southern boundary of the Town of Mosman Park and westwards 800 metres from the high-water mark (See Figure 3-1 below).

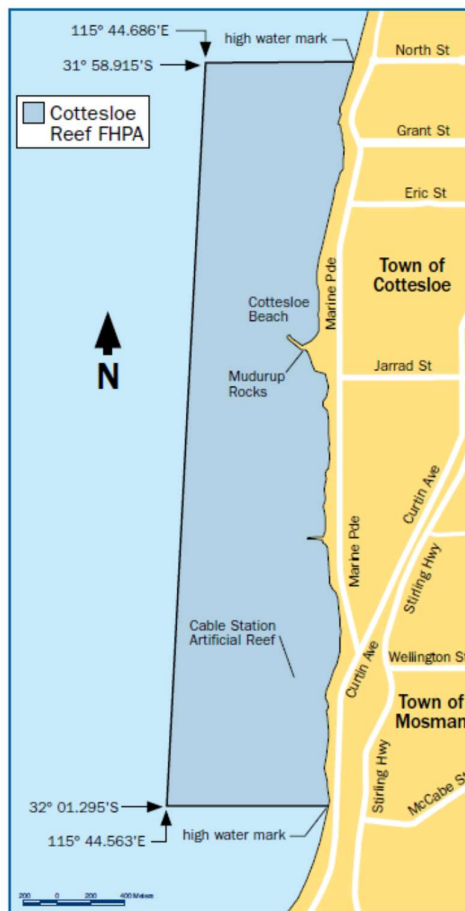


Figure 3-1 Cottesloe Fish Habitat Protection Area (FHPA)

A FHPA is a location declared by the Minister for Fisheries as having special ecological and community significance and thus deserving special management to ensure its long-term sustainability. Its principal aim is to preserve valuable fish and marine environments for the future use and enjoyment of all people.

The Cottesloe FHPA is located on a limestone shelf, which is known locally as the Cottesloe Fringing Bank. This shelf extends approximately 1.5 km offshore from the beach. The depth of the reef system varies, according to the contours of the submarine landform. Limestone pinnacles, elevated platforms and water-eroded limestone outcrops form most of the surface reef structure. In places, sea-grass patches and kelp beds occur within 100 metres of the shoreline (DoF 2001, 2010).



The Cottesloe reef system is a healthy, flourishing marine system, which is considered by marine scientists to have attributes unique to the Perth metropolitan area (DoF 2001, 2010).

The reef contains a unique and diverse range of marine habitats, including sand, sand with seagrass, limestone reef with large kelp and macro-algae, sponge beds and garden bottoms. Each of these habitats supports many different species of invertebrates, fish, aquatic plants and other organisms. Specifically, the unique slope of the reef platform at Mudurup Rocks (area immediately south of the groyne; Figure 3-1) provides habitat for delicate animals such as feather stars and small molluscs, which are protected from heat and desiccation during low summer tides (DoF 2001, 2010).

The reef is readily accessible to the general public and intensively used by locals and other Perth metropolitan residents, and is therefore vulnerable to human impacts (DoF 2001, 2010).

Potential impacts

Option 1 - Ocean pool north of groyne

This option will require the placement of large boulders on a sandy bed habitat. This reclamation is likely to only have a minor impact on the prevalence of this type of habitat in the FHPA. Furthermore, the placement of boulders would provide some additional artificial reef habitat at this location.

The placement of boulders will likely disturb the sandy bed and temporarily impact water quality by locally increasing turbidity and sedimentation of surrounding benthic communities and habitats, in particular filter feeders of the nearby reef. However, this impact would be minimised as the current groyne creates an existing barrier between the proposed works and the reef to the south. Additional measures can also be implemented to minimise impacts (e.g. use of silt curtains and other industry standard controls).

Some concreting and other works may also be required as part of constructing this facility. These have the potential to temporarily impact water quality and surrounding benthic habitats. However, these impacts can also be avoided and/or minimised through the implementation of best practice environmental controls.

The development may lead to an increase of users in vicinity of the reef to the south of the groyne. This has the potential to increase the amount of rubbish in this area and other disturbances of the reef.

This option is unlikely to have a significant impact on benthic communities and habitats if carefully planned and managed during construction and operation.

Option 2 - Ocean pool south of groyne

This option would require the reclamation of a portion of the intertidal reef platform habitat immediately south of the groyne which has been highlighted as providing habitat for delicate animals such as feather stars and small molluscs. This removal would be permanent and the proposed pool, which will include vertical surfaces (walls), is unlikely to compensate for this loss. However, adding a variation of texture and form on the wall surface could improve its habitat value.

Pipelines will be required to pump sea water in and out of the proposed pool. Construction of the pipeline would require disturbance of the benthic habitats along its proposed alignment and impacts to the reef will be unavoidable. The final location of the outlet will also need to be sited to avoid potential water quality impacts to habitats and associated organisms and may need to be located away from the reef.



As the proposed pool would require to be constructed on the intertidal reef and require extensive concreting, potential piling works, preparation of surfaces there is a high probability of water quality impacts (refer to Section 3.7) which would in turn impact benthic communities and their habitats located at the site and adjacent reefs. While some measures could be used to minimise impacts, such as maximum use of pre-cast construction elements or use of cofferdams, these would still have some impacts to the reef.

There would be an increase of users in vicinity of the reef to the south of the groyne. This has the potential to increase the amount of rubbish in this area and other disturbances of the reef.

The significance of the impact on benthic communities and their habitat will need to be determined through field surveys to determine the quality of the habitat impacted relative to the other areas of the reef. Based on a preliminary desktop assessment, an approval under section 38 of the *Environmental Protection Act 1986* may be required if the impact has the potential to be significant. Furthermore, a clearing permit under the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 is likely to be required as the intertidal reef to be reclaimed is likely to contain marine vegetation.

Option 3- Land based pool near Eric Street

The only infrastructure that will be required below the high tide mark will be the pipelines that will pump sea water in and out of the proposed land based pool. Construction of the pipeline would require disturbance of the benthic habitats along its proposed alignment. However, there is an opportunity to minimise disturbances by selecting an appropriate alignment that avoids more sensitive habitats that may be present (e.g. limestone reefs, seagrass). The final location of the outlet will also need to be sited to avoid potential water quality impacts to these habitats and associated organisms.

This option is unlikely to have a significant impact on benthic communities and habitats if carefully planned and managed during construction and operation.

3.3.3 Marine Fauna

Existing environment description

As detailed in Section 3.3.1, the proposed pool options are located within the Cottesloe FHPA. Within snorkelling depth, the reef and seagrasses provide a habitat for the weedy seadragon (*Phyllopteryx taeniolatus*) and the rare leafy seadragon (*Phycodurus eques*). In deeper water, corals, sea cucumbers and sponge gardens thrive and the unique slope of the reef platform at Mudurup Rocks provides habitat for delicate animals such as feather stars and small molluscs, which are protected from heat and drying during low summer tides. An abundance of finfish can be found in and around the reef system including, herring, tailor, skipjack (silver trevally), whiting, morwong and tarwhine (silver bream). The reef is also a breeding ground for squid, Port Jackson sharks and other elasmobranchs including stingrays.

The protected matters search tool and the WA Nature Map were searched to determine the potential presence of threatened and/or other protected marine fauna species under State and Federal legislation within or in vicinity of the proposed pools. Threatened marine species likely to occur include large marine mammals such as but not limited to the southern right whale (endangered – EPBC Act) and the humpback whale (vulnerable – EPBC Act), which undertake yearly migrations along the coast and the Australian sea lion (vulnerable – EPBC Act). Sea lions calve all year round on islands in the southwest of Australia, but are not known to utilise the coast in the vicinity of the proposals. Various sea turtles including but not limited to the loggerhead turtle (endangered – EPBC Act), green turtle (vulnerable – EPBC Act), flatback turtle (vulnerable – EPBC Act) have also been previously recorded in the locality or have the potential to occur.



However, turtle nesting is not recorded along the Perth coast adjacent to the proposal sites. Listed shorebirds and other marine birds may also use the intertidal zones and the sand dunes as potential foraging and breeding habitats. Threatened marine birds previously recorded in the locality or where their habitat is known to occur include but are not limited to the red knot (endangered – EPBC Act), bar tailed godwit (vulnerable – EPBC Act), various petrels and albatrosses, the eastern curlew (critically endangered – EPBC Act) and the Australian painted snipe (endangered – EPBC Act). The majority of the bird species listed are known to occur offshore and breed on offshore islands, not in the vicinity of the proposal sites. A full list of species is provided in Appendix A.

Potential impacts

Option 1 - Ocean pool north of groyne

As discussed in Section 3.3.1, this option would increase the amount of artificial habitat for marine fauna through the placement of boulders. There would be limited impacts on potential intertidal foraging habitats from this option.

Potential water quality impacts as discussed in Section 3.3.1 would also apply to marine fauna.

Construction activities would create some minor underwater noise, in particular during the placement of boulders, which would temporarily impact marine fauna in the area. These can be adequately managed through best practice environmental controls.

This option is unlikely to have a significant impact on marine fauna, including threatened species, if carefully planned and managed during construction.

Option 2 - Ocean pool south of groyne

As discussed in Section 3.3.1, this option would remove some intertidal habitats which would reduce the availability of habitats for marine fauna.

Potential water quality impacts as discussed in Section 3.3.1 would also apply to marine fauna.

The reef in proximity of the proposed pool provides habitat for various marine fauna including the weedy seadragon and the rare leafy seadragon. Impingement and entrainment of marine fauna, in particular slow-moving fauna such as the seadragons, zooplankton, may result at the inlet if it placed close to the reef. Careful design including appropriate siting, limiting the speed of the water entering the inlet pipe and/or providing an appropriate cover would minimise these potential impacts.

Geotechnical and other investigations that may be required during the design phase as well as construction activities would create underwater noise which would temporarily impact marine fauna in the area. These can be adequately managed through best practice environmental controls.

Although the impact of this option is expected to be higher than of the other options, according to the criteria for impact assessment this option is unlikely to have a significant impact on marine fauna, including threatened species, if carefully planned and managed during construction and operation.

Option 3 - Land based pool near Eric Street

As discussed in Section 3.3.1, the proposed pipeline has the potential to impact water quality at the outlet and therefore impact marine fauna in its vicinity. Impingement and entrainment of marine fauna may also



result at the inlet, in particular if the inlet is located close to habitats which attract marine fauna (reef, seagrass). This impact can be avoided or minimised by locating the inlet away from these habitats and by also ensuring the speed of the water entering the inlet pipe is reduced to minimise the potential for impingement and entrainment.

Works in the sand dunes would impact some potential disturbed habitat for shorebirds. However, similar habitats are found elsewhere along the coast including to the south and north of this location and no critical habitat is present at the site.

Geotechnical and other investigations that may be required during the design phase as well as construction activities would create underwater noise which would temporarily impact marine fauna in the area. These can be adequately managed through best practice environmental controls.

This option is unlikely to have a significant impact on marine fauna, including threatened species, if carefully planned and managed during construction and operation.

3.4 Aboriginal and State Heritage

3.4.1 Aboriginal Heritage

Existing environment description

The Cottesloe FHPA management plan (DoF 2001) recognizes the value of the Cottesloe Reef system to be significant to the Aboriginal people and that there is a need to conduct an anthropological assessment of the Aboriginal heritage values of the site.

A search of the Aboriginal Heritage Inquiry System revealed one registered site, Moonderup (Site ID 435), with the Department of Aboriginal Affairs. (Figure 3-2)



Figure 3-2 Moonderup registered site (Site ID 435)



This site is also listed as Mudurup or Moodoorup Rocks in the Municipal Inventory (Site 7982). It includes the rocky cliff face and reefs where the original Aboriginal inhabitants fished for whiting (Figure 3-3)



Figure 3-3 Mudurup or Moodoorup Rocks

The following provides additional information on the heritage significance of Mudurup Rocks and is taken from a research paper prepared by anthropologists Ken Macintyre and Dr Barb Dobson.

Mudurup Rocks is one of the last known and surviving indigenous mythological, ceremonial and fishing sites located on the Western Australian metropolitan coast. According to site file information recorded in 1995 'the site is located immediately W. of the Cottesloe Surf Lifesaving Club and SSE of the Cottesloe Beach Groyne.' However, based on our own consultations over a number of years with senior indigenous heritage spokespersons with knowledge of the area, the site originally extended north and south of the present day groyne. It is said to have included part of the rocky shoreline and beachfront limestone formations which existed there prior to the construction of the groyne. As the northern area has been changed and disturbed over many years, the site extent now seems to have been conveniently confined to the south of the main groyne.

All senior Aboriginal spokespersons who visited Mudurup Rocks with us over the years between 1993 and 2001 concluded that the site included the limestone headland or promontory (to the west of the Cottesloe Surf Club building), the fringing reef platform and the rocky beachfront area which once extended north and south of the present day groyne. The construction of the groyne in the early 1960's altered aspects of the shoreline and reef topography of the original site.

Nyungar heritage spokespersons consulted all agreed that it was a place of deep spiritual, ceremonial and ancestral importance.

The proposed pool options are within the Whadjuk People Indigenous Land Use Agreement(s) (ILUA). The ILUAs bind the parties (including 'the State', which encompasses all State Government Departments and certain State Government agencies) to enter into a Noongar Standard Heritage Agreement (NSHA) when



conducting Aboriginal Heritage Surveys in the ILUA areas, unless they have an existing heritage agreement. It is also intended that other State agencies and instrumentalities enter into the NSHA when conducting Aboriginal Heritage Surveys in the ILUA areas. It is recommended a NSHA is entered into, and an 'Activity Notice' issued under the NSHA, if there is a risk that an activity will 'impact' (i.e. by excavating, damaging, destroying or altering in any way) an Aboriginal heritage site. The Aboriginal Heritage Due Diligence Guidelines, which are referenced by the NSHA, provide guidance on how to assess the potential risk to Aboriginal heritage.

There is one native title claim that is registered over the locality as Whadjuk People (WAD242/2011).

Potential impacts

Option 1- Ocean pool north of groyne

This option is partially located within the boundary of the Moonderup site listed with the Department of Planning, Lands and Heritage but outside the boundary of Mudurup or Moodoorup Rocks listed in the Municipal Inventory. Under section 17 of the *Aboriginal Heritage Act 1972*, a person who excavates, destroys, damages, conceals or in any way alters any Aboriginal site commits an offence, unless he or she acts with the authorisation of the Registrar of Aboriginal Sites (Registrar) under section 16 or the consent of the Minister of Aboriginal Affairs (Minister) under section 18. While impacts of this option are unavoidable as it is partially located within the boundary of the site, the northern side of the groyne has been highly altered and therefore impacts to the heritage value would likely be minimal.

In accordance with the Aboriginal Heritage Due Diligence Guidelines (Department of Aboriginal Affairs 2013), the proposal is likely to fall within the definition of a significant or major disturbance and the site north of the groyne considered a significantly altered environment. Although the impact of this option is expected to be lower than Option 2, based on the Aboriginal Heritage Risk Matrix this option constitutes a medium to high risk to Aboriginal heritage. The actions required are:

- Medium Risk: Review the landscape and proposed activity. The precautionary principle applies. Refer to the AHIS and contact the DPL&H. A range of actions may be recommended, including: no action, consultation with the relevant Aboriginal people (through SWAL&SC), an Aboriginal heritage survey or modification of the proposed activity to avoid or minimise site impact.
- High Risk: Refer to the AHIS. Consult with the DPL&H and the relevant Aboriginal people (through SWAL&SC). Dependent on consultation outcomes you may need to include: an Aboriginal heritage survey, modification of the proposed activity to avoid or minimise impact to the site and/or other heritage management strategies. The land user may also need to apply for approval or consent to the activity.

Furthermore, in accordance with the Due Diligence Guidelines, if a land use activity is likely to impact upon Aboriginal heritage, it is best that heritage management strategies are implemented early in the planning process. Early engagement and consultation can help to identify ways to minimise and avoid damage to or disturbance of Aboriginal sites. Leaving heritage management to the later stages of project planning can potentially delay the land user whilst he/she obtains the relevant information or approvals. Consultation with the relevant Aboriginal people is a pre-condition to the Committee's consideration of an application for consent or approval under the AHA.



Option 2 - Ocean pool south of groyne

This option is located within the boundary of the Moonderup site listed with the Department of Planning Lands and Heritage and the boundary of Mudurup or Moodoorup Rocks listed in the Municipal Inventory. Section 16, 17 and 18 of the *Aboriginal Heritage Act 1972* as detailed above also apply. Impacts of this option are unavoidable and would require reclamation of the intertidal rock platform south of the groyne which contributes to the significance of this item. In accordance with the Aboriginal Heritage Due Diligence Guidelines (Department of Aboriginal Affairs 2013), the proposal is likely to fall within the definition of a significant or major disturbance and the site south of the groyne considered a moderately altered environment. Based on the Aboriginal Heritage Risk Matrix, this option would present a medium to high risk. The actions required are detailed in the previous option.

As detailed in the previous option, close consultation with relevant Aboriginal people will also be required.

Option 3 - Land based pool near Eric Street

This option is located away from any registered sites and therefore impacts are unlikely. However, as it is located within the Whadjuk People Indigenous ILUA, it is recommended that the Aboriginal stakeholders are consulted during the development phase as per the other options.

3.4.2 Non-Aboriginal Heritage

A search of the protected matters search tool for Matters of National Environmental Significance (MNES) did not reveal any world heritage properties or national and commonwealth heritage places within two kilometres of the proposed pool options.

A search of the State Heritage Office InHerit search tool revealed a number of heritage items/places whose boundaries are within or immediately adjacent to the proposed pool options (Table 3-3).



Table 3-3 Heritage items

Heritage item/place	Listing	Description	Option 1 - Ocean pool north of groyne	Option 2 - Ocean pool south of groyne	Option 3 – Land based pool near Eric Street
North Cottesloe Cafe 149 Marine Pde Cottesloe Place number: 7987	Municipal Inventory	Demolished in 2002; location of Barchetta	Not applicable	Not applicable	Adjacent
OBH Plaque 1 Eric St Cottesloe Place number: 7864	Municipal Inventory	Plaque only with history of Edwardian building designed by Louis Cumpston. This hotel is not considered to have sufficient architectural merit to warrant heritage listing.	Not applicable	Not applicable	Adjacent
Ocean Beach Hotel 1 Eric St North Cottesloe Place number: 14894	Statewide Hotel Survey	This building began life as a grand Federation Filigree style Hotel in 1907. Integrity Destroyed, Modifications numerous from the 1930s	Not applicable	Not applicable	Adjacent
Cottesloe Beach Pylon offshore at Cottesloe Beach in line with John St Cottesloe Place number: 7984	State Register	<p><i>Cottesloe Beach Pylon</i>, a concrete pylon constructed in 1936 with a reconstructed top and situated in the Indian Ocean about 80 metres offshore from Cottesloe Beach, has cultural heritage significance for the following reasons:</p> <ul style="list-style-type: none"> the place is an element of Cottesloe Beach, one of Perth’s most popular recreation and swimming beaches from the 1880s through to the present the place is rare as the only remaining element of what was to have been a shark proof enclosure, a scheme developed in the late 1920s and 1930s to ensure the continuing popularity of Cottesloe Beach the place is a well known icon for visitors to Cottesloe Beach, and contributes to the beach as a 	Adjacent	Adjacent	Not applicable



Heritage item/place	Listing	Description	Option 1 - Ocean pool north of groyne	Option 2 - Ocean pool south of groyne	Option 3 – Land based pool near Eric Street
Cottesloe Beach Precinct Marine Pde Cottesloe Place number: 16637	State Register (indefinite interim extension)	<p>distinctive landmark.</p> <p><i>Cottesloe Beach Precinct</i>, the stretch of coastline on the west side of Marine Parade, running between Napier Street in the north and Jarrad Street in the south comprising the beach, groyne, pylon, tea rooms, surf life saving club and change rooms, Norfolk Island pines, landscaping and wading pools and adjacent Cottesloe Reef extending into the Indian Ocean, has cultural heritage significance for the following reasons:</p> <ul style="list-style-type: none"> • the place is a popular recreational area for locals and interstate tourists alike, has achieved wide spread renown as an iconic beach, and is a prominent image used in the identification and portrayal of a distinctive Western Australian way of life; the strong landscaped features, including the mature Norfolk Island Pines and open spaces, coupled with distinctive buildings and other built elements, collectively form a cultural environment that contributes to the community's sense of place • the place's physical development reflects the increasing popularity of beach swimming in the early decades of the early 20th century, with remnant and replacement amenities illustrating changes in beach usage throughout the century • following the place's successful promotion and establishment as Western Australia's premier recreational resort in the early 1900s, the beach strongly influenced the early development of Cottesloe as a holiday resort 	Within	Within	Not applicable



Heritage item/place	Listing	Description	Option 1 - Ocean pool north of groyne	Option 2 - Ocean pool south of groyne	Option 3 – Land based pool near Eric Street
		<ul style="list-style-type: none"> • Cottesloe Reef has educational and research values, providing school groups, universities and the general public the opportunity to observe the diversity of the reef ecosystem • the place was the site of the first beach patrols in Western Australia following the formation of the Cottesloe Surf and Life Saving Club in 1909. • While the Indiana Tea House represents the continuation of a historic use, the present building has little significance. 			
Vestige of Original Jetty and Site of Pavilion Marine Pde Cottesloe Place number: 18542	Municipal inventory	Site of jetty and former bathing pavilion. The remains of a pylon in the water [part of the shark proof bathing area built in 1936], mark the site of the 1904/6 pier with bandstand. The current bathing pavilion at Cottesloe Beach is where the former landmark pavilion was located	Adjacent	Adjacent	Not applicable
Memorial Sundial Marine Pde Cottesloe Place number: 7983	Municipal Inventory	Bi-centennial Memorial Sundial, The sundial was the outcome of a design and ideas competition as part of Cottesloe's contribution to the Bi-Centennial commemorating the founding of the colonies on the east coast of Australia.	Adjacent	Adjacent	Not applicable

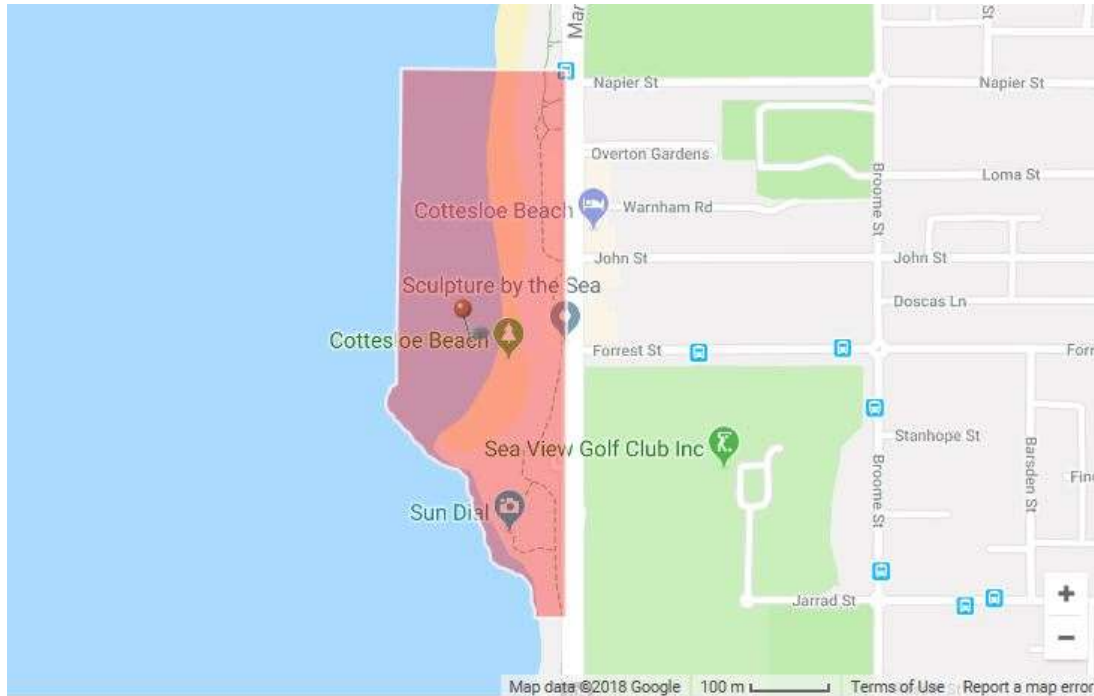


Figure 3-4 Cottesloe Beach Precinct Marine Pde Cottesloe – State Heritage

Potential impacts

Option 1 and 2: Ocean pool north and south of groyne

Both options are located adjacent to two heritage sites listed on the Municipal Inventory. The sundial is unlikely to be impacted by either option. As none of the options is expected to give any significant changes to coastal erosion it is not expected that the vestige of a former site will be impacted.

Both options are located partially or wholly within the boundary of the Cottesloe Beach Precinct which is listed on the State Register (Figure 3-4). Both options, but in particular the option north of the groyne, are also located adjacent to the Cottesloe Beach Pylon offshore at Cottesloe Beach, also listed on the State Register. The pools have the potential to impact the heritage values of the precinct and pylon and a referral to the Department of Planning, Lands and Heritage will likely be required. The Department will determine the level of assessment that would be required to determine the degree of potential impacts.

If carefully designed to take into account the heritage value of the precinct, impacts of either option could be reduced to an acceptable level. Advice from the Department can be sought in this regards prior to any referral being made.



Option 3 - Land based pool near Eric Street

This option is located adjacent to three heritage sites. However, one has been demolished (North Cottesloe Cafe), another has been highly modified (Ocean Beach Hotel) and the last is a plaque. The proposed pool is unlikely to impact on any local heritage values.

3.5 Architectural Aspects

3.5.1 Impact on Surroundings

Option 1 is an extension of an existing coastal structure, and may draw a crowd to this part of the beach. It has minimal impact on its surroundings, however it may result in partially restricted views of the horizon from the beach.

Option 2 has greater impact on the marine environment, as discussed in Section 3.3, however less impact on general public activities, as it is a previously unused part of the shoreline. There may be some limited impact on surfing activities further south of the proposed pool location, as discussed in Section 3.7.3.

Option 3 utilises in part a pre-existing car parking area, a portion of parkland and some natural dunes. This option is comparable to a standard commercial development. It will have minor disruption to the area and businesses in the vicinity during construction, however will likely create a boost to those businesses and general property values in the medium to long term. The low-rise nature of the development will not affect any ocean views from Marine Parade.

3.5.2 Swimming Experience

Despite being an ocean pool, the design of option 1 creates a swimming environment surrounded by rocks, with – depending on the chosen height of the structure – limited or no view possible from the pool surface or adjoining decks to either the ocean or the horizon. The water is subject to tidal rise and fall, and potential ingress of marine life including seaweed. The temperature of the water will fluctuate with the seasons, unless a geothermal bore is to be constructed, however it is very well protected from SW gusts and winds.

Option 2 is in a location where the views are expansive and uninterrupted. It offers a controlled water environment, with pool water being heated, however it is not protected from SW winds.

Option 3 Offers expansive views of the ocean, the potential of wind breaks from the SW, and a controlled and heated water environment. The experience of using this pool will be more 'urban' in nature, being located in very close proximity to other buildings and the Marine Parade.

3.5.3 Fit with Council Policy

The Council's Beach Policy applies, which primary objectives is to avoid irreversible uses of the beach reserves that reduce the options for the future. It should be noted that the council can change policies if deemed required.



Option 1 would be easily reversible.

Option 2 would be difficult to reverse, therefore is least likely to be supported by the policy.

Option 3 would be easily reversible.

3.5.4 Aesthetic Aspects / Opportunity for Tourist Landmark

Option 1 offers a pool and protected swimming environment, but no additional facilities and limited views, and has therefore limited potential to become a tourist landmark.

Option 2 is highly exposed to weather, and not highly visible from Marine Parade with only few additional amenities. It has however the advantage of an excellent relationship to the ocean with expansive views, and the largest footprint and could draw a significant crowd.

Option 3 is located in a highly visible position at the northern “entry” to Cottesloe. It’s capacity to be used all year round, and in close proximity to other amenities lends itself to becoming a tourist destination.

3.6 Community and Social Aspects

3.6.1 Overview and Community and Social Aspects

Cottesloe beach is an iconic location within Western Australia, extending north from Mudurup Rocks to the southern rocks of Swanbourne Beach. The 1.5-kilometre stretch of beach is backed by Marine Parade, which consists of cafes, surf shops, pubs and restaurants with a real village feel, bustling with activity, especially throughout the long, hot, dry summers that Western Australia experiences. This stretch of beach is patrolled by two Surf Life Saving Clubs – Cottesloe (which patrols the southern half) and North Cottesloe (which patrols the northern half).

Cottesloe Beach attracts patrons locally as well as from the extended Perth region. Cottesloe beach hosts one of the biggest annual sculpture exhibitions in the world – Sculptures by the Sea, which features local, national and international artists. This event attracts an estimate attendance over 200,000 people per year. During Summer and when events are held, the availability of parking along Cottesloe beach is limited.

The Town of Cottesloe is considering an upgrade of its foreshore area, which may likely result in future changes to the foreshore.

The foreshore area that surrounds the art-deco Indiana Teahouse building comprises terraced lawns, Norfolk Island pines and parks; all overlooking the Indian Ocean. This area of the Cottesloe foreshore and beach area is the most utilised and popular section of the 1.5km stretch of beach. As part of the foreshore renewal plan, the existing 144-bay public car park located to the north of the Indiana Teahouse is about to be removed and transformed to increase the recreational use of this popular foreshore area.



The following section will consider each pool option and how its construction and operation will affect this main section of Cottesloe Beach (i.e. the section that extends from the north of the groyne to the existing carpark area).

3.6.2 User Groups throughout the Seasons

Options 1 and 2 have potential for free access, which will attract an increased number of regular beachgoers during the summer months. Option 3 will unlikely be functional without a fee-paying model.

Due to lack of facilities, distance from car parking and inefficiency of a potential heating capability, Option 1 may struggle to attract a winter crowd during the time of the year when the beach is relatively empty. Option 2 has similar proximity issues to car parking as Option 1 but could facilitate a heating system and change room facilities. There would still be significant exposure to the prominent south westerly winds during the summer.

Option 3 has the capability to offer associated change rooms and cafes in the vicinity which are open all year round. The pool could be heated with a possibility of protective wind barriers to SW winds. Proximity to existing car parking facilities increases the accessibility of this option compared to Option 1 and 2. This option will likely be highly utilised during the winter months, especially as this location already has regular patronage during the early morning pre-work hours.

3.6.3 Temporary Construction Impacts

Option 1 - Ocean Pool North of Groyne

This option has the potential to have the following temporary construction impacts:

- Construction noise and dust may impact and potentially deter beach users and may impact Indiana Teahouse.
- Construction work has the potential to temporarily interfere with local traffic along Marine Parade. This may potentially include lane closures and machinery and equipment storage which would result in potential traffic congestion and pressure on parking availability. A temporary compound site may impact parking availability (if installed within an existing carpark area). There are opportunities to minimise impacts by implementing a traffic management plan and undertaking construction outside peak season.
- From a visual perspective, construction activity would include storage of building equipment and machinery, fencing, and construction workers. Option 1 would have the greatest impact on the main section of Cottesloe beach. Undertaking construction outside peak season would minimise impacts.
- Access along the groyne for fishing and walking is likely to be restricted during construction. Aquatic recreation (e.g. swimming, surfing, kayaking) would also be restricted in the waters near construction activities. Undertaking construction outside peak season would minimise impacts.
- During construction of the ocean pool, there is a potential for a decline in visitors/tourism to Cottesloe beach. This will potentially be offset to a degree by construction workers using local



cafes and other existing amenities. Given the location of Option 1, construction would likely result in recreational disruption and potentially a decline in tourism and retail to the local businesses. There is potential to minimise this impact by undertaking the construction works in the off-season (i.e. Winter months).

Option 2 - Ocean Pool South of Groyne

This option has the potential to have the following temporary construction impacts:

- Construction noise and dust may impact and potentially deter beach users.
- Construction work has the potential to temporarily interfere with local traffic along Marine Parade as per option 1 (See above).
- From a visual perspective, construction activities would have similar visual impacts to option 1 (see above).
- Access along the groyne for fishing and walking would be restricted during construction, though to a lesser extent than Option 1. Aquatic recreation (e.g. swimming, surfing, kayaking) would also be restricted in the waters near construction activities. Undertaking construction outside peak season would minimise impacts.
- During construction of the ocean pool, an associated decline of visitors/tourism to Cottesloe beach would be expected. This may be offset to a degree by construction workers using local cafes and other amenities. Construction would be carried out away from the main beach which could potentially minimise disruption. There is potential to further minimise this impact by undertaking the construction works in the off-season.

Option 3 - Land Based Pool near Eric Street

This option has the potential to have the following temporary construction impacts:

- Construction noise and dust may impact the neighbouring cafes/hotels (Barchetta, Blue Duck café, Ocean Beach Hotel) and local residents.
- Construction work may temporarily interfere with local traffic along Marine Parade and Eric Street as per Option 1 and Option 2 (see above).
- From a visual perspective, construction activities would have similar visual impacts to Option 1 with receivers including patrons of the Ocean Beach Hotel, other local residents/businesses that are in its line of sight.
- Due to its location off the beach, construction of this option will have minimal interference with ocean/beach accessibility except during pipeline installation.
- During construction of the ocean pool, decline of visitors/tourism to Cottesloe beach would be expected. As discussed above, this may be offset to a degree by construction workers using local amenities. Construction of Option 3 would be carried out away from the main beach which could potentially minimise impacts. There is potential to further minimise this impact by undertaking the construction works in the off-season.



3.6.4 Long-term Operational Impacts

In general, an ocean pool at Cottesloe (at any of the three option locations) may create additional traffic and pressure on parking availability which is already under pressure during summer and other peak times. However, an ocean pool may increase numbers to Cottesloe beach, therefore having a positive effect on tourism and local businesses.

Option 1- Ocean pool north of groyne

This option has the potential to have the following impacts during operation:

- The ocean pool would become a principal element of the foreshore renewal. Although it has yet to be decided if this would be a paid facility or that it would be freely accessible, the pool would provide an alternative to swimming in the ocean and provide a safe protected area for swimmers and children.
- This option has the potential to have high visual and landscape character impacts on the renowned Cottesloe beach due to the use of large boulders to reclaim a section of the beach. Opportunities exist, however, to minimise visual and landscape character impacts by using less visually intrusive materials.
- An existing ramp/pathway currently provides disabled access to the beach north of the groyne and can be adapted to offer appropriate access to the pool.
- This option may create additional pressure on the existing shower and toilet amenities at the Indiana Teahouse through increased numbers of users.
- This option would potentially displace other users including the existing fishermen who utilise the groyne. Swimmers, who choose not to access this ocean pool, and kayakers/surfers would be forced to utilise the beach and ocean to the north or south of the ocean pool and groyne.

Option 2 - Ocean Pool South of Groyne

This option has the potential to have the following impacts during operation:

- Like Option 1, the addition of an ocean pool to Cottesloe beach would be a principal element of the foreshore renewal and provide an alternative to swimming in the ocean and a safe protected area for swimmers and children. It has yet to be decided if this would be a paid facility or that it would be freely accessible.
- This option has the potential to have a moderate visual and landscape character impacts on the renowned Cottesloe beach, mostly due to reclamation of a portion of the intertidal reef habitat and being located adjacent to the popular beach. Impacts can potentially be minimised by ensuring the design considers the landscape character of the Cottesloe Beach precinct.
- There is currently no access to the south of the groyne although the current access path to the groyne can be adapted in the design to provide accessibility.
- Toilet and shower amenities can be incorporated into the design potentially alleviating impacts to existing amenities at Cottesloe beach.



- This option would have minimal impacts on the recreational use or space of the main swimming area north of the groyne but would remove some area of the intertidal reef and reduce access to this zone.
- This option would have minimal conflict with other users including the existing fishermen and surfers who utilise the groyne.

Option 3 - Land Based Pool near Eric Street

This option has the potential to have the following impacts during operation:

- This option would likely be used by community groups such as the local surf lifesaving, local schools and water polo clubs compared to the other options.
- This option would also provide a safe protected area for swimmers and children and would likely be developed as a paid facility.
- This option has potential for low to moderate visual and landscape character impacts at this location due to proximity to existing buildings with no interface with the ocean.
- Visual impacts can be minimised by ensuring the design considers the landscape character of the Cottesloe Beach precinct.
- There are existing pathways around the location of this option and appropriate access to the pool can be designed.
- This option may create an increased demand for parking near Eric Street/Marine Parade intersection.
- Toilet and shower amenities can be incorporated into the design and therefore reducing the likelihood of additional pressure on existing amenities.
- This option would be located away from the main beach area. There are opportunities to improve accessibility in this area through the construction of raised walkways.
- This option would have minimal conflict with others users.

3.6.5 Parking

Options 1 and 2 are a significant distance from the nearest available car parking, especially considering the removal of the 144-bay carpark adjacent to the Indiana Teahouse. Excluding this carpark, the nearest main carpark is located 600 m from the Cottesloe groyne at Napier Street.

Option 3 is closer to existing street car parking and 150 m from the main carpark in Napier Street. This option may be subject to Council requirements to provide additional car parking as a part of the development subject to Council's parking policy. This option is anticipated to draw early morning patronage, when surrounding parking is underutilised.

3.6.6 Access, General and disabled

Option 3, the land based pool, will require standard development approvals and all structures will therefore be subject to relevant Australian Standards for disable access issues. Although Options 1 and 2 are not subject to the same requirements, it would be recommended to comply to relevant sections of these standards.



3.6.7 Safety

Option 1 is part of the existing beach and within sight of current life guard services. There are inherent issues of children playing on rocks, rise & fall in water levels posing danger to divers from the concrete edge, and being in close proximity to fishermen. Fencing could be considered to create safety barriers or to separate areas on the groyne.

Option 2 is predominantly out of sight of the main beach strip, and additional lifeguards would need to be stationed at the facility unless covered by the nearby surf lifesaving club. The latter is assumed in the financial assessment. There is a risk of people falling from the pool edge onto the reef edge or into the ocean, which can be mitigated through safety barriers or other design solutions, and there is the possibility of waves overtopping the pool during periods of high waves.

Option 3 represents the same safety issues as any standard public swimming pool.

3.6.8 Security

Option 1 is a part of the existing beach and it is therefore not practical to provide security to this area. Option 2 has some scope to restrict access to the public after hours, or in dangerous weather conditions. This is considered essential to avoid unwanted after-hours activity in this remote location. Option 3 can be secured off entirely if required.

3.7 Coastal Engineering Aspects

3.7.1 General Coastal Engineering Aspects

Any structure built in the coastal zone needs to be designed to withstand the marine environment. Design considerations include wave forces, wave overtopping, wind, currents and sea level rise. The potential for undermining by erosion and the risk of being buried by sediment also needs to be assessed.

A structure on the coastline can also have an impact on its environment. It could cause changes in sedimentation patterns, changes to the wave climate including changes in behaviour of nearby surf breaks and changes in current speed or direction.

For ocean pools specifically, water quality and the risk of sand/sea wrack ingress into the pool is of importance.

A high-level assessment of the coastal engineering aspects of each of the proposed ocean pool layout options is presented in the section below. The aspects will be grouped into the following categories: General coastal engineering aspects, loads on the structure, environmental impacts and water quality.

Option 1 – Ocean Pool North of Groyne

Option 1 is essentially an extension of the existing Cottesloe Groyne. It will most likely consist of a porous core (made of quarry-run rock) covered by larger armour rocks. This option will be exposed



to ocean loads (waves, currents, water levels) at any time. Some of the design elements of this layout option such as rock armour size and armour slope may resemble those of the existing groyne as it will be exposed to similar environmental loads.

Option 2 – Ocean Pool South of Groyne

Option 2 consists of a structure at the south side of the base of the Cottesloe Groyne, sitting on the reef platform. Water depths in this reef platform are in the range of 0-0.5m at low tide. The pool in this layout option is located on the reef above water level, in which case it would have to be filled by a pumping system. Alternatively, it could be considered to dig the pool into the reef platform so the pool sits at least partially under the existing water level and use tides and waves to flush the pool. This is a concept used for many of the ocean rock pools in NSW. Excavation in the existing reef will however give geotechnical risks additional to those identified and presented in Section 3.9.

Option 3 – Land Based Pool near Eric Street

This option is essentially a land based pool, at a location currently not exposed to any marine loads and not expected to directly impact the coastal environment. Potential future erosion of the coastline may however result in the pool structure becoming located in an exposed ocean environment.

3.7.2 Coastal related Loads on the Structure

Option 1 – Ocean Pool North of Groyne

This layout option is exposed to waves at any time. Wave heights at Cottesloe are generally small (<1m) but can become large (>3m) during winter storms. The structure will have to be designed to withstand large waves.

Currents in Perth coastal water are predominantly wind-driven and are typically between 0.04 and 0.2m/s. The current climate will have to be considered as part of the design because high current speed could lead to scour and undermining of the structure. However, this is not expected to cause any major design issues for pool Option 1.

Water levels are an important design parameter for overtopping. Variation in water level at Cottesloe is mostly tidal driven. The tidal range in Cottesloe usually varies from 0.3m during neap tides to 0.7m during spring tides. The water level however can also be affected by wave setup and barometric surge. These processes can occasionally add another metre or more onto the water level. Additionally, the sea level is expected to rise by 0.4m by 2070 and by 0.9m by 2110 (DoT, 2010). The extreme water levels will have to be considered when determining design waves, assessing overtopping and when determining the crest level of the groyne and deck level of the pool.

The rock groynes are porous and the pool water level will follow the tidal variation. Based on a 2016 survey of the area, depth of the pool will be between 3 and 4m at the deep end, depending on tides, and its depth will gradually decrease towards the beach. It will not be possible to empty the pool for maintenance. The height from the surrounding deck to the water surface will also vary



with the tides (provided they are fixed structures), varying the height from which people would jump into the water from the deck.

The beach is dynamic and its profile and position change constantly. Season variations have been observed where the beach recedes during summer months and accretes during winter months (Cardno 2017). The actual depth of the pool will be depending on what time of the year it is built. Construction towards the end of summer could result in a deeper pool than construction during winter.

Overtopping of waves into the pool will not occur under most conditions and the water in the pool will generally be calm. During storms however, severe overtopping could occur. The severity of this overtopping is illustrated in Figure 3-5, showing the existing Cottesloe Groyne during a winter storm in 2003. The armour layer and the inside structures (deck, benches, ladders) would have to be designed accordingly. Overtopping is also a safety consideration, and it may be desirable to restrict access to the pool during severe storms. It is worth noting that the extent of overtopping can be controlled by raising or lowering the crest level of the groynes.

Wind will not be an issue from a structural point of view but can cause discomfort for swimmers. This layout option will provide considerable protection from the wind. This could be a welcome feature of this layout option during summer months when strong southerly sea breezes occur on a nearly daily basis.



Figure 3-5 Overtopping at the Cottesloe groyne during a winter storm (16 May 2003)

Option 2 – Ocean Pool South of Groyne

The location of Option 2 is partially sheltered from waves by the Cottesloe Groyne. The shallow depth would also reduce wave heights, compared to Option 1. Wave loads on the structure are expected to be small under most conditions (<1m). In storm events however, waves of 2m or larger could occur at this location. Wave loads on the structure as well as overtopping would need to be considered in this location. Especially wave slamming will need to be investigated in future design stages, as this may need an extra strong side wall of the pool with a wave deflecting structure or a wave absorbing structure such as a rock bund.



Any amenities on the pool such as benches, wind screens, ladders, etc. should be designed to withstand overtopping loads. The extent of overtopping can be controlled by raising or lowering the top level of the pool. It is also possible to mitigate overtopping and wave slamming by changing slope, shape, and/or texture of the seaward face of the structure.

Water levels would have to be considered when determining the level of the deck of the pool and water level of the pool. A lower pool level would decrease the pumping requirements (or potentially eliminate them) but would also increase the overtopping rates and the chances of sea wrack to wash into the pool. A higher pool level, with the bottom above mean sea level would be easier to maintain and would have smaller overtopping rates, but would require more energy to pump water into the pool.

Currents in this location are expected to be small and not to cause any structural issues. As the ocean pool would be based on a reef platform, there would be no risk of undermining of the structure.

Wind will not be an issue from a structural point of view but this layout option will be exposed to southerly winds. This could be a concern for swimming comfort of this layout option during summer months when strong southerly sea breezes occur on a nearly daily basis. The installation of wind screens may not be possible due to the requirement to design for overtopping.

Option 3 – Land Based Pool near Eric Street

This option is a land based pool and therefore not exposed to any marine loads at present. As the coastline is expected to erode over time, this option may likely get exposed to marine loads in time, unless some form of coastal protection is implemented. This is further discussed in the section below.

3.7.3 Impact on the Waves and Coastline

Option 1 – Ocean Pool North of Groyne

Given the increased width of the groyne structure parallel to the coast, we anticipate that Option 1 would shift the current beach profile northwards by 30-40m. This would mean that the beach would look the same as it looks now, only slightly further northwards. This could lead to a slight increase in beach width in front of Indiana Tea House.

Although the wave conditions in front of the extended groyne will change due to reflection off the rock structure, there is an opportunity to improve the surfing conditions by including an artificial surfing reef on the seaward side of the extended groyne. The wave conditions closer to the Cottesloe beach are expected to be similar to what they are now.

The currents on the north side of the extended groyne structure are expected to be similar to these at the existing structure.

No impact on sedimentation, current patterns, or wave conditions is expected south of the existing groyne.



An environmental impact study, including wave and sedimentation modelling, would have to be conducted to confirm the above assumptions and to ensure no undesired impacts will occur from construction of this ocean pool option.

Option 2 – Ocean Pool South of Groyne

This option could result in wave reflection. At low water levels and most weather conditions, waves are generally very small and wave reflection is unlikely to have any impact. However, increased wave load due to wave reflection onto the existing groyne should still be considered to avoid damage to the groyne, particularly for higher water levels (which often occur during storm events with larger waves). There could also potentially be an impact on the nearby surf break 'The Cove' at higher water levels. Wave reflection could be mitigated in design by changing slope, angle, and texture of the walls of the pool.

A negligible impact on sedimentation patterns is expected as there is very little sediment present at this location. Limited change in current climate expected as current speeds in this location are generally low (Advisian 2017).

An environmental impact study, including wave and sedimentation modelling, would have to be conducted to confirm the above assumptions and to ensure no undesired impacts will occur.

Option 3 – Land Based Pool near Eric Street

This option is a land based pool, not exposed to any marine loads and therefore not expected to directly impact the coastal environment. The main consideration from a Coastal Engineering perspective is however that it is located very closely to an eroding beach. With 7-12m shoreline recession expected by 2030 and 14-42m recession expected by 2070 (Coastal Zone Management, 2008), there is potential for undermining of the pool in the future, particularly during severe storm events. These estimates include assumptions for sea level rise.

Based on these erosion figures some form of erosion management may be necessary to protect the pool in the long term. It is likely that erosion management will already be necessary to protect nearby café and facilities. The need for coastal protection is therefore not a local issue and should be incorporated in measures following from the coastal protection strategy for the Cottesloe area. Note that if a 'hard protection' such as a series of groynes or a sea wall were to be implemented, this could potentially interrupt longshore sediment transport and could impact erosion or sedimentation patterns nearby.

3.7.4 Water Quality and Heating

Option 1 – Ocean Pool North of Groyne

Tidal water level variation will force water to flow in and out of the pool through the armour structures on a daily basis. The water will be filtered through the armour structure. The flushing rates could be a concern at neap tides when the tidal variation is small (~0.3m) or in periods where the water level ranges are small due to wave setup or barometric pressure. Further study is required to determine whether this will be sufficient to ensure appropriate water quality. Flushing



rates could be increased by building the groynes at level that allows waves to overtop under small wave conditions.

Overtopping and large storm events could introduce sediment and sea wrack into the pool. It will then be trapped inside the pool, and maintenance may be required after storm events to remove unwanted sediment or sea wrack from the pool. Further study could be done to assess how much sediment or sea wrack could end up in the pool and on practical methods to remove this.

Geothermal heating could be possible by pumping warm ground water into the pool. However, this is likely to be prohibitively expensive because sea water would constantly seep in and out of the pool through the armour structures, making a heating system inefficient. Further study would be needed to identify pumping rates, drilling depths, etc.

Option 2 – Ocean Pool South of Groyne

This option is a contained salt water pool. Pumps are needed to fill the pool and circulate the water. The amount of pumping can be controlled, and the pumping rate to maintain desired water quality needs to be investigated.

Ingress of sediment or sea wrack into the pool and clogging of the pumps or intakes can be mitigated by carefully selecting the intake location and adding a strainer on the intake. Sea wrack may still be introduced into the pool during severe storm events due to overtopping. Algae growth in the pool would have to be monitored, and regular cleaning of the pool may be desirable. Maintenance could be relatively easy because the pool can be emptied and a disabled access ramp could allow easy entry into the pool with small machinery.

Geothermal heating could be an option. However, if the pool will be filled with untreated sea water, the water will have to be flushed regularly and high capacity heating will be required. Geothermal heating typically requires high initial investment but has lower long-term costs than other heating methods. Cost will depend on the exact temperature and volume requirements and will need further study. In case heated sea water is a requirement, consideration should be given to the outfall location. Warmer sea water may need to be discharged into the ocean nearby. Environmental impacts of this discharge would need to be assessed.

Option 3 – Land Based Pool near Eric Street

If sea water were to be used in this pool, flushing rates and seawater intake location need to be considered. The necessary pumping rates to ensure good water quality will have to be studied.

Geothermal heating is an option and the same considerations need to be made as for Option 2, which are cost, heating capacity, filtering, intake/outfall locations, and environmental impact of a warm water outfall. The vicinity of the beach and higher chance of sediment clogging filters may make it more challenging to find an appropriate intake location at Option 3 than at Option 2. A strainer or an upturn (intake pointing upward at some distance from the seabed) would be beneficial.



The option of a combined chlorinated/salt water pool, such as in Scarborough, could also be considered. This would reduce the need for flushing and increase efficiency of any geothermal heating. However, it would reduce the 'ocean pool' feeling.

3.8 Civil Engineering Aspects

3.8.1 Overview of Civil Engineering Aspects

Constructability and durability are important aspects of the structural design and are discussed for the three options in the sections below. Corrosion is an issue applicable for all options as they are planned to be built in an exposed marine environment. The pump system is described in Section 3.8.5, which applies to both Option 2 and Option 3.

3.8.2 Constructability

Option 1 – Ocean Pool North of Groyne

Most of the works of this option could be completed using land based equipment, such as a dump truck and a hydraulic excavator. The following construction activities are anticipated:

- Place rock to extend the existing rock groyne to form an enclosed swimming area;
- Install inlet piping/culvert through extended groyne;
- Install precast gravity walls adjacent to inside face of existing and extended groyne;
- Construct pavements along the extended groyne, access stairs and universal access ramp; and
- Install fencing if required.

Option 2 – Ocean Pool South of Groyne

Although the majority of the construction works could be executed using land-based equipment, the construction of the pump system would also require water borne construction equipment, which is generally more costly. Furthermore, access to the reef area by construction equipment may have some challenges. The following construction activities are anticipated:

- Construct precast reinforced concrete or block seawalls;
- Reclaim the land south of the groyne;
- Construct reinforced concrete pool;
- Install seawater intake and outfall structure, pipelines and associated mechanical pumping equipment;
- Install pool heating mechanical equipment;
- Construct pavements; and
- Install fencing.

Option 3 – Land Based Pool near Eric Street



Although the majority of the construction works could be done using land-based equipment, the construction of the pump system would also require water borne construction equipment, which is generally more costly. The following construction activities are anticipated:

- Earthworks, cut and fill of the terrain;
- Construct reinforced concrete pools;
- Install seawater intake and outfall structure, pipelines and associated mechanical pumping equipment;
- Install pool heating mechanical equipment;
- Construct pavements; and
- Install fencing.

Depending on the choice of coastal protection potentially also a seawall or a series of smaller groyne needs to be constructed

3.8.3 Durability

Option 1 – Ocean Pool North of Groyne

The ocean pool north of the groyne is exposed and subjected to tidal conditions and winter storms wave events. Although it can be designed to last the full envisaged lifetime of the structure, repairs to the rock structure may be required after extreme storm events (depending on damage allowed in the rock structure design). Fixed piled walkways, access ramps, steps, and pavements would need to be durable, be designed for a marine environment with the possibility of overtopping.

Option 2 – Ocean Pool South of Groyne

The ocean pool south of the groyne is also exposed and subjected to tidal conditions and winter storms wave events. The pool itself would need to be robust and well connected to the supporting reef to prevent failure from scour and undermining. The pool itself would need to be durable and be design as a liquid retaining marine structure with the possibility of overtopping. Regular cleaning of this ocean pool would be straight-forward.

Option 3 – Land Based Pool near Eric Street

The land-based pool is set-back from the ocean and less subjected to winter storms and marine environmental conditions. The pool could be founded on the existing sand, assuming coastal protection measures will be taken to mitigate erosion, preventing failure of the pool due to scour and undermining. The pool itself would need to be durable and be designed as a liquid retaining marine structure. There would be additional durability criteria and maintenance for offshore intake/outfall structures and pipelines. Regular cleaning of this ocean pool would be straight-forward.

3.8.4 Corrosion

Corrosion is a common issue for coastal or marine structures with steelwork and reinforced concrete. This is of a particularly concern for liquid retaining structures such as saltwater pools



where the expansion and contraction associated with the emptying and filling of the pools can place stress on the pool and lead to hairline cracking. This can result in seawater infiltration into the cracks and corrosion of the steel reinforcement and potentially lead to significant maintenance costs.

Effects of corrosion can be mitigated in steelwork by use of cathodic protection systems, use of appropriate marine coatings and/or wrappings systems. Effects can be mitigated in reinforced concrete by sufficient concrete cover, correct sizing/spacing steel reinforcement to control crack sizes, cathodic protection of the reinforced concrete (effective when submerged), selection of a marine concrete mix design incorporating admixtures to promote durability, or selection of alternate reinforcement materials (such as galvanised steel reinforcement, stainless steel reinforcement or fibre reinforced polymers (FRP) reinforcement).

Selection of appropriate corrosion protection measures could be investigated in further studies. Application of these protective measures have the potential to reduce maintenance costs and improve durability but will result in higher constructions costs.

3.8.5 Pump System (applicable for Option 2 and Option 3)

Pumping systems work with pairs of pumps. Having two pumps reduces downtime during maintenance or breakdowns. A small suction pump is deployed to prime the main pumps on start up.

The point at which seawater is taken into a pipeline for pumping to the pool is critical. At that point the water must be free of seaweed contaminants and any other potential pollutants. It has to be in a relatively sheltered position. For option 2, the inlet to the pipeline has to be at some depth and/or in a hole in the reef and protected by the reef.

Intakes should be fitted with an upturn and a strainer to reduce sediment or debris entering the intake. Depth of the intake should be deep enough to avoid vortices at the surface (3-4m).

It is to be expected that on some stormy days, the pumps would not operate and the pool would be closed. Blockages at the pump inlet may require the provision of two pipelines, one as a back-up or as a means to blowing out any blockages in its companion pipeline by reversing the flow of water. If blockages need to be cleared by divers, then the regulations applying to confined workspaces must be adhered to.

Some marine growth is expected to occur inside the intake pipes. This can reduce the effective diameter of the intake. If the pipes are steel, corrosion could also contribute to narrowing of the pipes. It could be beneficial to use HDPE or PVC pipes and to increase pipe diameters to allow for some narrowing of the pipes over time.

Some sediment will inevitably pass through the pumps, increasing wear on the pumps and pipes. Rubber-lined impellers could be considered to reduce wear of the pump.

As input for the design of the pump system, a flushing study is required to know the refreshing rates in the pool. Furthermore, advection dispersion modelling may be required to study the effect of the recirculated water on the environment.



3.9 Geotechnical Aspects

The regional geology of the Cottesloe area is demonstrated on the Geological Survey of Western Australia (GSWA) 1:50,000 Environmental Geology Series map "Perth" (Gozzard, 1986). The Perth map indicates the geology of the coastline around Cottesloe is dominated by near surface Tamala Limestone (LS₁), overlain by Safety Bay Sand (S₁) in a narrow strip immediately adjacent to the coast. The geology of the adjoining seabed is associated with Cottesloe Fringing Bank Unit (S₁₇), which is also expected to overlie Tamala Limestone.

These materials are described by Gozzard (1986) as:

- Safety Bay Sand (S₁); Calcareous Sand, white, fine- to medium-grained, sub-rounded quartz and shell debris, of eolian origin (Safety Bay Sand, Qhs);
- Cottesloe Fringing Bank Unit (S₁₇); Sand, mainly quartz and feldspar with varying amounts of lithoclasts (shells). Higher lithoclast contents are encountered adjacent to rocky coastlines; and
- Tamala Limestone (LS₁); Limestone, light yellowish brown, fine to coarse-grained, sub-angular to well-rounded, quartz, trace of feldspar, shell debris, variably lithified, surface kankar (calcrete caprock), of eolian origin.

Site specific investigations of the coastal geological profile in Cottesloe were undertaken by GBGMaps (2010) for the Town of Cottesloe, using a combination of geophysical methods (Ground-Penetrating Radar/GPR and Multi-channel Analysis of Surface Waves/MASW) and geotechnical intrusive testing by Cone Penetration Test (CPT).

The geological profile interpreted by GBGMaps (2010) is broadly consistent with the regional geology mapped by Gozzard (1986) on the 'Perth' sheet. However, GBGMaps (2010) interpret the thickness of surficial sands along the Cottesloe foreshore as varying from around to 5 m to more than 10 m below ground level, which is potentially thicker than what might be expected based on the regional mapping.

It is important to note that in general the Tamala Limestone demonstrates significant variability in elevation and engineering properties throughout the Perth Metropolitan area, with this variability typically also evident at a local scale. Significant variability in elevation is commonly associated with the presence of buried pinnacles, as well as solution features (which manifest as 'holes' in the rock mass), within an otherwise undulating rock surface that somewhat parallels natural topography and dune morphology. Significant variability in rock strength is also common and associated with variable post-depositional strengthening due to carbonate cementation and calcretisation (e.g. formation of caprock), or weakening due to dissolution ('leaching') of carbonate which can ultimately result in the formation of uncemented sand zones or voids within the limestone rock mass.

Some of this variability, in regard to both rock elevation (including the potential presence of pinnacles) and rock strength, are potentially evident in the geophysical profiles acquired by GBGMaps (2010), however, this variability in general remains ambiguous.

Given the regional geological conditions expected along the Cottesloe foreshore, in general it is expected that the ground will have sufficient bearing capacity and acceptable levels of settlement



associated with construction of an ocean pool structure, assuming the structure is founded on sand or Tamala Limestone, with the potential exception of Option 2.

In specific reference to the options being assessed at the current time, the following general observations are noted in regard to the geotechnical conditions and implication for design and construction.

Option 1- Ocean pool north of groyne

- It is assumed that a suitable pool structure at this location would be integrated with the existing groyne, by construction of additional 'groyne' type structures, with placement of rock to form the primary enclosure and natural seabed soils forming the base of the pool;
- It is assumed that internal to the primary enclosure, the 'groyne' structures would need to be faced with rigid material (e.g. pre-cast concrete, steel piles etc.) to form the 'side-walls';
- Given the engineering performance of the existing groyne, it is considered that construction of additional 'groyne' structures carries relatively 'low' geotechnical risk in regard to bearing capacity and settlement potential;
 - Settlement of the groyne structures would occur almost entirely as primary ('immediate') settlement with the lack of a base slab reducing risks associated with bearing capacity and differential settlement;
- Construction of 'side-walls' would likely require penetration to some depth below the current seabed to achieve adequate foundation capacity and lateral stability;
 - Risks associated with not achieving adequate penetration of the seabed (e.g. due to shallow rock) or adequate foundation capacity (e.g. due to deep loose sands) are considered relatively 'low', assuming they are mitigated by undertaking adequate site-specific drilling investigation prior to detailed design and construction;
- As an alternative to piled foundation of the pool side-walls, these could also be designed as gravity structures.

Option 2 - Ocean pool south of groyne

- General observations of the geology at this location indicate that the site is positioned on an existing 'reef platform' (Mudurup Rocks), for which it is important to note the following;
 - The rock comprising the reef platform has likely been developed separately to the Tamala Limestone and may not be in direct connection with the Tamala Limestone rock mass;
 - The thickness and strength properties of the rock comprising the reef platform are currently unknown;
 - The reef platform may be underlain by sand at an unknown depth;
- It is assumed that a suitable pool structure at this location would be similar in design and construction to conventional pools, in that a 'base slab' and 'side-walls' would be constructed with a rigid material (e.g. concrete) on top of the reef or in an excavation below the existing reef platform;



- Given the differences in the geological character of this location in comparison to the regional geological profile, geotechnical risk is considered to be relatively high for this Option in regard to bearing capacity and settlement potential, with the following risk items noted;
 - Excavations undertaken within the reef platform could be unstable and subject to collapse during construction;
 - The rock comprising the reef platform may have inadequate bearing capacity to support the structure and could collapse if subject to additional loads associated with the structure;
- The potential risks associated with this site could be mitigated by undertaking adequate site-specific drilling investigation to confirm the geological profile and the engineering properties of the foundation materials;
- It is noted, however that significant logistical challenges (and likely expense) would be encountered to undertake an investigation at this location, due to its position in the intertidal zone where it is inaccessible to vessels and subject to intermittent inundation and exposure by the sea.

Option 3 - Land based pool near Eric Street

- It is assumed that a suitable pool structure at this location would be similar in design and construction to conventional pools, in that a 'base slab' and 'side-walls' would be constructed with a rigid material (e.g. concrete) in an excavation below the current ground level;
- Available data suggests the Safety Bay Sand is likely to be more than 5 m thick at this location and as such the structure would be founded in sand, with limestone rock likely to be within 5 m of the foundation level,;
- Based on these assumptions, geotechnical risk is considered to be relatively low for this Option in regard to bearing capacity and settlement potential, with the following risk items noted;
 - If foundation level is close to the elevation of an irregular limestone surface, the structure could be subject to differential settlement which could ultimately lead to cracking of the base slab. This risk is considered 'moderate' but could be mitigated by over-excavation of the foundation soils and replacement with engineered, compacted sandy fill;
 - If foundation level is close to the elevation of limestone and large cavities (voids) are present within the limestone rock mass, the limestone could be subject to karstic collapse (development of sinkholes) which could lead to failure of the structure. The potential for this risk to be present is considered 'low', but should be assessed based on site specific drilling investigation at this location prior to design and construction. Mitigation would require relocation of the structure or stabilisation of cavities (e.g. grouting);
 - As the coastline in this area is subject to significant future erosion, then due to the sandy nature of the foundation soils which are readily erodible, there is the potential for the structure to be undermined which could lead to structural failure. Some form of coastal protection is therefore required to mitigate coastal erosion.
 - The potential for this risk requires assessment in the context of projected future coastal erosion rates and/or sea-level changes.
- If any of the pools in this option will be constructed below the ground water table, the design should take into account the uplift forces during the periods that the pool is empty for maintenance or during construction;



3.10 Cumulative impacts

A number of proposed developments are being planned in the Cottesloe Beach area. These include:

- Cottesloe Pier at the end of the groyne;
- Removal of the Cottesloe Beach car park along Marine Parade at South Cottesloe;
- Upgrade of the Napier Street carpark.

These proposals may interact and have cumulative impacts with one or more of the proposed pool options and may need to be considered during future design stages. Potential cumulative impacts, both positive and negative, may include but not be limited to:

- Increased traffic and parking impacts and noise impacts during construction if construction activities are undertaken concurrently or back to back;
- Increased parking and traffic pressures during operation;
- Increased revenue for surrounding businesses during operation.



4 Financial Assessment

4.1 Introduction

Advisian surveyed 27 existing ocean pools to get an understanding on capital cost and operating cost for the three options.

As most of the ocean pools have been constructed long time ago, information on capital cost for existing pools is very sparse and could not be used to estimate construction cost of any of the three options. Instead, the capital (construction) costs for the options were estimated based on applying all in supply and installation rates to estimated quantities.

Information on operating cost was easier to obtain because a large number of pools are still operational in NSW. Advisian compared information from different sources and made a best estimate of operating costs of the three layout options.

4.2 Benchmark Survey

The large majority of existing ocean pools in Australia are located in NSW. Advisian researched a number of these through online sources and sourced information from councils that manage existing ocean pools.

The most substantial information was obtained from Wollongong Council (NSW), Northern Beaches Council (NSW), and Bondi Icebergs (NSW). Northern Beaches Council provided insights and information by phone. Wollongong Council provided information by phone as well as online through their 'Pools Strategy' brochure. Bondi Icebergs, Sydney's most iconic ocean pool, publishes financial information online.

Wollongong Council maintains and operates 3 'pump and dump' ocean pools (water is pumped from the ocean and then discharged back to the ocean) as well as 9 tidal pools. Northern Beaches Council maintains 15 tidal ocean pools. Many of these tidal pools have pumping stations but are also filled and flushed by tides and waves action.

The survey included 27 ocean pools, listed in Table 4-1. Advisian aimed to include pools that were similar to each of the three proposed layout options. While a few existing pools are similar to Options 2 and 3 in terms of operations and maintenance, only one pool was found that resembled Option 1 (Bruce Steer Pool). Very little information was available about this pool.

Most relevant for this feasibility study were Bondi Icebergs and the Wollongong 'pump & dump' pools. The findings of the surveys are described in section 4.4 on Operating cost.



Table 4-1 List of surveyed ocean pools

Ocean Pool	Location	Type
Avalon	Northern Beaches, NSW	Rock pool
Bilgola	Northern Beaches, NSW	Rock pool
Collaroy	Northern Beaches, NSW	Rock pool
Dee why Rock Pool	Northern Beaches, NSW	Rock pool
Fairlight	Northern Beaches, NSW	Rock pool
Fairy Bower	Northern Beaches, NSW	Rock pool
Freshwater Ocean Pool	Northern Beaches, NSW	Rock pool
Mona Vale	Northern Beaches, NSW	Rock pool
Newport	Northern Beaches, NSW	Rock pool
North Curl Curl Rock Pool	Northern Beaches, NSW	Rock pool
Palm Beach	Northern Beaches, NSW	Rock pool
Queenscliff	Northern Beaches, NSW	Rock pool
South Curl Curl Rock Pool	Northern Beaches, NSW	Rock pool
Whale Beach	Northern Beaches, NSW	Rock pool
Bondi Icebergs Ocean Pool	Bondi, NSW	Pump & Dump
Coalcliff Rock Pool	Wollongong, NSW	Rock pool
Wombarra	Wollongong, NSW	Rock pool
Coledale	Wollongong, NSW	Rock pool
Austrinmer	Wollongong, NSW	Rock pool
Bulli	Wollongong, NSW	Rock pool
Woonana	Wollongong, NSW	Rock pool
Bellambi	Wollongong, NSW	Rock pool
Towradgi	Wollongong, NSW	Rock pool
Wollongong	Wollongong, NSW	Rock pool
Continental Baths	Wollongong, NSW	Pump & dump
Port Kembla Olympic Pool	Wollongong, NSW	Pump & dump
Thirroul	Wollongong, NSW	Pump & dump

4.3 Capital Cost

Because no new ocean pools have been built since the 1960s, only limited information on capital expenses is available:

- Port Kembla Olympic Pool in Wollongong was rebuilt in 1998 for \$4.3M. This equates to approximately \$7.1M in 2018 terms;
- Scarborough Beach Pool in WA was part of a major refurbishment of the Scarborough coastline that reportedly cost \$26M. This pool is however not using ocean water (as envisaged for the three layout options considered in this study), but uses chlorinated salt water.
- Bronte Beach Pool reportedly cost 150 pounds to build in 1883.



Without proper benchmark data Advisian estimated the capital cost of the three ocean pool options based on applying all in supply and installation rates to estimated quantities.

The capital high level cost estimate summary is presented in Table 4-2. Details of the estimate are provided in sections 4.3.1 to 4.3.4.

Table 4-2 Summary of capital cost estimates

Description	Option 1 Million AUD	Option 2 Million AUD	Option 3 Million AUD
Design and Studies	0.5	0.6	0.6
Preliminaries	0.9	1.0	1.3
Rock Construction	1.4	N/A	N/A
Concrete (pools, pavements, walls)	1.4	2.7	3.4
Earthworks	N/A	0.1	0.1
Intakes & Pumps	N/A	0.1	0.1
Pool Infrastructure	0.2	0.6	0.6
Project Management	0.8	0.9	1.1
Design Growth Allowance	0.8	0.9	1.1
Escalation	Excluded	Excluded	Excluded
Contingency	1.5	1.7	2.0
Total Cost	7.5	8.6	10.3

4.3.1 Estimate Assumptions

- Estimate is in Australian Dollars (AUD)
- Values are in 2018 dollars with no allowance for forward escalation
- Rates from in-house data have been applied to preliminary quantity take-offs
- A design allowance of 15% has been applied to the quantities to account for the anticipated additional quantities expected between where the level of engineering is currently to final design
- An allowance for indirect cost and project management (of 20% of the construction cost) has been made
- An allowance for detailed design at 10% of the direct cost has been made
- An allowance for preliminaries (including Mobilisation, Demobilisation, Insurances, Management Plans, temporary facilities etc) at 30% of the direct cost has been made
- A contingency of 25% of total cost has been applied



- The estimate excludes the following items:
 - Good and services tax;
 - Land acquisition;
 - Approvals;
 - Disruptions due to heritage issues;
 - Disruptions due to local protests;
 - Cost escalation.
- Estimate accuracy is expected to fall within +/- 50%.

4.3.2 Estimate of Capital Cost for Option 1

For the purposes of this estimate, the Option 1 design and capital works are assumed to include:

- Studies & Detailed Design
 - Studies include Geotechnical Desktop Review, Environmental, Coastal and Social Studies.
 - Multi-disciplined Detailed Design including Structural, Coastal, Geotechnical, Electrical and Material Disciplines.
- Coastal Works (Groyne Structure):
 - The top level of the core material extends to 1m above chart datum
 - Armour size of 6-300 kg is assumed for the underlayer. Layer thickness is 0.7m.
 - Armour size of 6-10 T is assumed for armour protection. Layer thickness is 2.6m.
 - Crest level of the structure is 4.3 m CD
 - Crest width is assumed 3m
 - Slopes are assumed to be 1:1.5
 - Length of seaward section is assumed to be 50m
 - Length of side section is assumed to be 80m
- Civil & Structural Works:
 - 3m wide x 3m deep gravity wall along the inside of the groyne. This is assumed to be a precast reinforced concrete shell lifted into place with a suitable crane. Once installed, the shell is filled with unreinforced concrete or ballast to stabilise
 - 3m wide x 0.2m thick in-situ reinforced concrete deck over the full extent of the gravity wall to provide an accessway around the perimeter of the pool
 - 3m wide in-situ pavements along the groyne extension
 - 4m wide x 9m long x 0.2m thick in-situ reinforced concrete steps
 - 3m wide x 30m long x 0.2m thick in-situ universal access ramp with retaining walls



- A provisional sum has been included for the following items:
 - Swimming Lane Ropes
 - Water Polo Goals
 - Lighting
 - Access Ladders
 - Signage
 - Shade Sails

The basis for the rates used in the Option 1 estimate are detailed in Appendix E: Financial Assessment.

4.3.3 Estimate of Capital Cost for Option 2

For the purposes of this estimate, the Option 2 design and capital works are assumed to include:

- Studies & Detailed Design
 - Studies include Geotechnical Site Investigation, Coastal, Environmental and Social Studies.
 - Multi-disciplined Detailed Design including Structural, Coastal, Geotechnical, Electrical, Mechanical and Material Disciplines.
- Coastal Works:
 - Pool perimeter, consisting of 145m long precast concrete T-shaped retaining seawall around the perimeter of the new facility. The wall is assumed to be 2.5m deep x 0.5m wall with a 1m long x 0.5m thick heel and 0.5m long x 0.5m deep toe.
 - Short seawater intake and outfall pipes
 - Seawater intake and outfall structures
- Civil & Structural Works:
 - 50m long x 26m wide in-situ reinforced concrete adult pool.
 - 21m long x 10.5 m wide in-situ reinforced concrete kid pool.
 - Earthworks, including preparation of foundations and backfill.
 - In situ reinforced concrete pavement over the 1600 square m area surrounding the pools.
- A provisional sum has been included for the following items:
 - Swimming Lane Ropes
 - Lighting
 - Services (power, water, etc)
 - Kiosk and Amenities Building (100 sq m)
 - Shade sails



- Heating Pump and System
- Access Ladders
- Signage

The basis for the rates used in the Option 2 estimate are detailed in Appendix E: Financial Assessment.

4.3.4 Estimate of Capital Cost for Option 3

For the purposes of this estimate, the Option 2 capital works are assumed to include:

- Studies & Detailed Design
 - Studies include Geotechnical, Environmental, Social, Coastal and Hydrological Studies
 - Multi-disciplined Detailed Design including Structural, Coastal, Geotechnical, Electrical, Mechanical and Material Disciplines
- Coastal Works:
 - Pool perimeter, consisting 165m long precast concrete T-shaped retaining seawall around the perimeter of the new facility. The wall is assumed to be 2.5m deep x 0.5m wall with a 1m long x 0.5m thick heel and 0.5m long x 0.5m deep toe
 - 100m long seawater intake and outfall pipes
 - Seawater intake and outfall structures
- Civil/Structural Works:
 - 32m long x 27m wide in-situ reinforced concrete water polo pool
 - 50m long x 10 m wide in-situ reinforced concrete lap pool
 - 15m long x 15m wide in-situ reinforced concrete settling pool
 - Earthworks (including preparation of foundations and backfill)
 - In-situ reinforced concrete pavement over the 1900 sq m area surrounding the pools
 - Fencing
- A provisional sum has been included for the following items:
 - Seawater Pumping System
 - Elevated Walkways
 - Landscaped Promenade
 - Swimming Lane Ropes
 - Lighting
 - Services (power, water, etc)
 - Amenities Building (70 square m)



- Heating Pump and System
- Access Ladders
- Signage

The basis for the rates used in the Option 3 estimate are detailed in Appendix E Financial Assessment.

4.4 Operating Cost

Advisian estimated operating cost based on experience of ocean pool operators in NSW. The estimated operating cost are summarised in Table 4-3. Option 1 is the cheapest as no life guards are on duty and it requires minimal cleaning. Option 2 is more expensive as the pool will require more cleaning. Option 3 is most expensive as it assumes 3 full time staff are required to supervise the pool.

Table 4-3 Summary of yearly operating cost for each layout option

Yearly operating cost	Option 1 AUD	Option 2 AUD	Option 3 AUD
Staff (Cleaning/Lifeguards)	\$28,000	\$42,000	\$215,000
Repairs, Materials, Maintenance	\$23,000	\$115,000	\$115,000
Management	\$16,000	\$16,000	\$16,000
Contingency	\$16,750	\$43,250	\$86,500
Total per year	\$83,750	\$216,250	\$432,500

These estimates are based on cost information from existing ocean pools and on the anticipated activities involved for pool operations for each layout option. Details of the operating cost estimates are provided in sections 0 to 4.4.5.

Geothermal heating was excluded from this assessment because there are too many unknown variables at this stage. Appendix F presents a high-level overview on feasibility and cost of geothermal heating of pools. Costing for geothermal heating can be further developed once a preferred layout option is chosen.

4.4.1 Typical Ocean Pool Operations

Advisian made a distinction between the common rock pools (often flushed by tides) and 'pump and dump' pools, which use pumps to fill and flush the pool. Rock pools are generally not supervised by life guards, whereas larger 'pump and dump' pools have full time staff to supervise and clean the pools.

Most surveyed pools are cleaned weekly and the cleaning cost is a major component of operating cost. Some pools, such as the ones in Northern Beaches Council, reduce the cleaning frequency to



fortnightly in winter. For many pools, cleaning is tide and weather dependent due to the exposed nature of the pools. Cleaning is typically done pools in teams of three staff. During the summer, Northern Beach Council does the pool cleaning at night to minimise closure times.

A typical cleaning operation follows the steps below:

- Emptying of the pool to remove dirty water
- Removal of debris such as sea weed from pool. Sometimes machinery (bobcats, excavators) are used to remove the sediment;
- Cleaning and washing walls with chlorine solution
- Removal of oysters
- Maintenance on gates, pumps, etc
- Pool refill.

Most 'Pump & dump pools' work with a settling tank. Ocean water fills this tank, where sediment and other debris that made it through the pump can settle. Water is then gravity fed from this settling tank into the main pool. Pumps at some of these facilities, for example at Port Kembla, run full time to maximise flushing of the pool. Water quality is regularly tested. The pools close when the water quality is too poor for swimming. This is not only dependent on how often the pool is flushed but also on the water quality of the ocean, which varies over time. Heavy rainfall can cause dramatic reductions in water quality due to run off and storm drain discharge into the ocean.

A supervised pool typically runs with three full time staff. The staff serves as life guard most days and cleans on the days the pool is closed for cleaning. Additional casual staff is hired to support the needs of the pool when necessary, such as during school holidays.

Management of the ocean pools and other aquatic facilities is a full-time position when the number of pools is large enough to justify the need for a full time employee.

4.4.2 NSW Financial Information

Northern Beaches Council

The Northern Beaches Council employs two teams of three staff to clean the pools. They rotate between pools, and work night shifts in summer periods. An indicative yearly budget of \$480,000 was quoted for contracts and materials for their fifteen ocean pools combined.

Wollongong Council

The Wollongong Council published a brochure on their pool strategy: "The Future of Our Pools, Strategy 2014-2024". The brochure covers all eighteen pools managed by the Wollongong Council. This includes nine supervised pools (some of which are conventional inland pools), and nine unsupervised rock pools.

The brochure provides financial data, broken down in tidal pools and free supervised pools. It also provides financial data per pool. Following is the key data that is relevant to this feasibility study:



- Operating cost for the nine rock pools was \$398,000 in 2012/2013. This equates to \$44,222 per pool. No breakdown is available;
- Operating cost for the six free supervised pools was \$2,979,000. This includes three 'pump and dump' pools (Thirroul, Continental Baths, Port Kembla) and three inland pools. Based on the median subsidy per pool per visit provided in the brochure, Advisian broke this down in cost per pool and estimated the operating cost of the 'pump & dump' ocean pools at \$320,000 per pool.

Southern Pumping

Southern Pumping, the pump supplier for the 'pump & dump' pools in Wollongong, provided some approximate capital and operational cost for ocean pools pumping system.

- Two pumps are used per pool, with cost in the range of \$25,000 each.
- Lifetime of a pump is 8-10 years
- Servicing of pumps to replace wear parts is expected every two years at an approximate cost of \$5,000
- A suction pump is needed to prime the pumps. Approximate cost of a suction pump is \$3,500
- No filters are required, but it is recommended to install a strainer at the intake to prevent ingress of large debris. Approximate cost of a strainer is \$3,000, and occasional cleaning may be required by divers, with the cleaning frequency depending on the environment.

Bondi Icebergs Financial Statements

The financial statements from Bondi Icebergs are available online and provide financial data from 2012 to 2017. Note that this pool charges an entrance fee and includes other facilities, such as a café. The data is broken down it gives good insight in operating cost of running a staffed ocean pool.

The key financial items, averaged over the 2012-2017 period are summarised in Table 4-4.

Table 4-4 Key financial items from the Bondi Iceberg financial statements

Item	2012-2017 Yearly average
Cleaning Cost	\$ 223,525.50
Repairs & Maintenance Cost	\$ 119,140.00
net profit	\$ 419,932.00

Cleaning is done by staff, which Advisian assume to be undertaken by lifeguards on days when the pool is open.



4.4.3 Operating Cost Estimate for Option 1

As none of the surveyed pools resemble Option 1, Advisian made assumptions to estimate operating cost:

- Weekly cleaning of the pool (above water part only) can be done by two people over one day. Salary is assumed at \$70,000 per year
- Maintenance/Repair cost is estimated at 30% of the other pool options (see below) as the structures are less extensive
- Management of the pool can be done as a part time position of a Council of Cottesloe employee (one day per week, based on yearly salary of \$80,000).
- Repairs to the groynes and maintenance of the pool depth by dredging is covered in section 4.5 on Whole Life Cost.

4.4.4 Operating Cost Estimate for Option 2

Advisian made an estimate of the operating cost of Option 2, based on following assumptions:

- Maintenance and cleaning is similar to 'pump & dump' pools as operated in NSW
- The breakdown in cost between staff/cleaning and repairs is assumed to be similar to the Bondi Icebergs: 65% of the cost is staff/cleaning; 35% of the cost is repairs/maintenance
- The total operating cost for a 'pump and dump' pool is estimated as the average of Bondi (cleaning/staff + repairs/maintenance - \$342,665) and the cost of Wollongong in 2012/2013 (\$319,828). This comes to \$331,246 per year. (\$115,936 for staff/cleaning and \$215,310 for repairs and maintenance);
- The repairs/maintenance item is rounded to \$115,000 and assumed a good estimate for this option
- As no lifeguards or full-time staff are employed for Option 2, the rounded staff/cleaning estimate of \$215,000 is not considered applicable for this option. It is assumed that three staff, one day per week, are required for cleaning the pool. Salary is estimated at \$70,000 per year
- Management of the pool can be done as a part time position of a Council of Cottesloe employee (one day per week, based on yearly salary of \$80,000).

4.4.5 Operating Cost Estimate for Option 3

Advisian assume that the operating cost estimate for this option is similar to Option 2, except that there will be three full time staff required for Option 3:

- The repairs/maintenance item is rounded to \$115,000 and considered applicable for this Option;
- The rounded staff/cleaning estimate of \$215,000 is considered applicable for this Option;
- Management of the pool can be done as a part time position of a Council of Cottesloe employee (one day per week, based on yearly salary of \$80,000).



4.5 Whole of Life Cost

Whole of life cost considered for this study is assumed to mean the total financial cost of the asset including initial planning, engineering/design, capital cost, operating cost, maintenance and decommissioning/abandonment. The whole of life cost estimate summary is presented in Table 4-5.

Table 4-5 Summary of whole of life cost estimates

Description	Option 1 Million AUD	Option 2 Million AUD	Option 3 Million AUD
Capital Cost	7.5	8.6	10.3
Operating Cost	4.2	10.8	21.6
Other Whole of Life Cost	3.3	1.0	1.0
Abandonment	2.8	3.2	3.9
Escalation	Excluded	Excluded	Excluded
Total Cost	17.7	23.7	36.8

The following assumptions have been made in developing the order of magnitude whole of life cost:

- The capital cost for each option as described in Section 4.3 has been used as the initial cost
- The operating cost as described in Section has been used as the ongoing annual cost
- The facility will be designed for fifty years so the average annual operating cost is applied to this duration
- All cost are in AUD
- All values are in 2018 dollars with no allowance for forward escalation
- The 'other whole of life cost' includes the following allowances and assumptions:
 - Dredging for Option 1 (allowance of AUD 100,000 every five years);
 - Major storm damage to rock structure for Option 1 (allowance AUD 50,000 every second year)
 - Minor concrete repairs for all options are included in the operating cost
 - Major concrete remediation for all options (allowance of AUD 500,000 after twenty-five years)
 - Power and water running cost for Options 2 and 3 are included in the operating cost
 - Pump servicing/maintenance for Options 2 and 3 are included in the operating cost
 - Pump replacement for Options 2 and 3 (allowance of AUD 50,000 every ten years)
 - Cleaning intake strainer for Options 2 and 3 (allowance of AUD 2,000 per year for a diver)



- Abandonment cost at the end of the 50-year design life (allowance of 30% of the capital cost)
- A contingency of 25% of the value has been applied.
- Estimate Accuracy is expected to fall within +/- 50%.

4.6 High-Level Funding Opportunities

Funding opportunities could include:

- Entrance fees (Option 2 and 3)
- Private funding
- Club usage (water polo, swimming clubs)
- Events such as swimming competitions
- Sponsoring
- State funding
- Cottesloe Surf Lifesaving could provide life guards
- Funding from department of Sport and Recreation.

It should be noted that the proponents for all 3 assessed options have advised that they have funding options available. Therefore, costs for a future facility to be carried by the community (for instance directly as entrance fees or indirectly as council rates) do not have to relate to the construction and operational cost of the assessed options.



5 Legislation, Regulations and Standards

This section presents the relevant legislation, regulations and standards that would be applicable to the development of an ocean pool. Public swimming pool regulations gazetted in early 2007 advise that new seawater swimming pools are exempted from existing public swimming pool compliance requirements. However, these regulations are included for completeness.

5.1 Relevant Legislation and Regulations

- Health (aquatic Facilities) Regulations 2007
- Occupational Health and Safety Act 1984
- Occupational Health and Safety Regulation 1996
- Explosives and Dangerous Goods Acts 1961
- Explosives and Dangerous Goods (Dangerous Goods Handling and Storage) Regulations 1992

5.2 Relevant Standards

- AS 1926.1 Swimming Pool Safety – Safety Barriers for Swimming Pools
- AS 1926.2 Swimming Pool Safety – Location of Safety Barriers for Swimming Pools
- AS 1926.3 Swimming Pool Safety - Water Recirculation and Filtration Systems
- AS 2369.1 Materials for solar collectors for swimming pool heating – Rubber Materials
- AS 2416 Design and application of water safety signs
- AS 2488 Resuscitators intended for use with humans
- AS 2560.2.5 Guide to Sports Lighting - Specific Recommendations - Swimming Pools
- AS 2610.1 Spa Pools - Public Spas
- AS/NZS 3136 Approval and test specifications – Electrical Equipment for spa and swimming pools
- AS 3634 Solar Heating Systems for Swimming Pools
- AS 3979 Hydrotherapy Pools
- AS/NZS 4233 High pressure water (hydro) jetting systems – Guidelines for safe operation and maintenance
- AS 1428.1 Design for access and mobility
- AS/NZS 2890.1 Parking facilities Part 1-Off street car parking



5.3 Guidelines and Codes of Practice

Other documents that inform the safe operation of aquatic facilities include:

- Public Health Guideline: WA Code of Practice for Aquatic Facilities 2007
- Code of Practice - For The Design, Construction, Operation, Management & Maintenance Of Aquatic Facilities
- The Guidelines for Safe Pool Operation (GSPO)



6 Feedback from Community Consultation

6.1 Community Engagement Strategy Overview

Community engagement was undertaken in a two-tier process:

1. Community workshop (19th July 2018)
2. Online survey (20th July 2018 – 16th August 2018)

The objective of the community workshop was to provide an opportunity for the ToC to present the three ocean pool options to the community and provide a summary of the feasibility study results. The workshop comprised a presentation followed by a question and answer session. The workshop was advertised online and in the local paper.

Following the community workshop, an online survey was conducted which included targeted questions to ascertain if the community would a) like an ocean pool, and b) if so, which of the options is preferred. The online survey was advertised in the local media and at the community workshop. Information presented at the community workshop was provided online with the survey webpage.

Structure of the online survey was as follows:

1. Do you want an ocean pool?
 - Tick box - Yes, No, Neither
2. If so, rank the 3 in order of preference
 - Number options in order of preference
3. Please provide reasons for your preferences
 - Text comment box
4. Any additional comments?
 - Text comment box

6.2 Results

Although feedback was received during the community workshop, the purpose of the event was to provide the community with information, rather than a structured method of collecting feedback. As such, feedback provided by the community during the workshop is not considered in our conclusions below.

Feedback was considered in two stages; does Cottesloe want an ocean pool (Section 6.2.1) and, which option is preferred (Section 6.2.2)

6.2.1 Does Cottesloe want an ocean pool?

A total of 1249 responses were received. In response to Question 1 (Do you want an ocean pool?), 995 (79.7%) responders answered yes, 231 (18.5%) answered no, and 23 (1.8%) answered neither. A summary of comments is provided in Table 6-1.



For those who answered “Yes”, common reasons included the positive impact a new development would have on the Cottesloe foreshore and the provision of a safe swimming environment. For those who answered “No”, key themes included:

1. Negative impacts on local amenities/uses

Concerns over the impact on local amenities such as traffic and parking, and the potential burden of additional visitors comprised a large proportion of feedback. Additionally, the impact of an ocean pool on existing activities, particularly surfing, was also raised.

2. Cost

Cost was also a common concern, including the cost of both construction and operation, and the impacts to Cottesloe rate payers. It was considered by some that funds would be better spent improving existing facilities.

3. Impacts to the environment

A number of comments raised concerns over the effect on the environment, but these were less prevalent than impacts to local amenities and cost. Key environmental concerns included the impact of development on Cottesloe, including the appearance of the beach, and that an ocean pool would be contrary to the beach policy (see Section 3.5.3). Responses also stated the natural beach already provides good swimming conditions and there is no need to develop with artificial ocean pool.

4. Operation

Comments raised concerns over the feasibility of operation of an ocean pool in the area (e.g. ability for flushing) were to a lesser degree than the points above.

Table 6-1: Summary of feedback for Question 1 – Do you want a pool?

Reasons for wanting a pool	Reasons for not wanting a pool
1. Cottesloe needs a revamp.	1. The pool will destroy Cottesloe’s environment.
2. This will make it appealing to swimmers.	2. Most people pushing for this are not Cottesloe ratepayers.
3. We need one.	3. For normal beach swimmers wanting a protected ocean swim the current Cottesloe beach is great plus the other beaches still offering excellent beaches up to Swanbourne.
4. Wonderful way to enjoy swimming in the ocean without the dangers of sharks, rips and dumping waves.	4. A pool can be built anywhere, but additional shoreline cannot.
5. Helps people get fit and healthy in an enjoyable, safe setting is a great asset to our community.	5. Adds more pressure to the beach.
6. Desperately needed, materially improve Cottesloe as a destination.	6. Worried about funding and ongoing costs.
7. Safer swimming experience.	7. Affecting character of Cottesloe Beach.
	8. Against the Beach Policy.
	9. Worried about parking.
	10. Development is contrary to the environmental



Reasons for wanting a pool	Reasons for not wanting a pool
<ul style="list-style-type: none"> 8. Unique to WA (ocean pool) 9. Alternative safe swimming for small children, elderly and on rough days. 10. Foreshore has become extremely outdated. 11. Would be a massive attraction and fun. 	<ul style="list-style-type: none"> recommendations in the coastal development study 2.6. 11. Costly and risky planning initiative. 12. Don't need an enclosed, fee paying pool – can swim at the beach for free. 13. Pools don't belong on swimming and surfing beaches. 14. Traffic and funding concerns. 15. Will destroy the natural and unspoilt appearance. 16. Difficult and expensive to maintain. 17. Climate change 18. People come to Cottesloe to experience a natural, unspoilt marine environment. No need for an artificial pool. 19. Construction and maintenance will be an ongoing burden to ratepayers. 20. The Cottesloe Council is a small council and does not have the expertise or money to be considering such a project. It is a State government issue and the council should not be wasting rate payers money. 21. No room for traffic or people in summer at Cottesloe Beach. 22. Plans are flawed – the key to a successful ocean pool is natural ocean flush and these locations provide none of this. 23. Would destroy surf beaches. 24. Money is better spent on additional facilities. 25. Adds to litter and congestion. 26. Increased tourists. 27. Already enough pools in the area 28. Like the fact that the beach is natural and not built up/theme park like. 29. Not enough tidal range for self-flushing. 30. Simply don't need one. 31. Concerns with safety and policing. 32. Should be spending the money in other areas before a pool. 33. Trying to be like everyone else. 34. Don't fix what isn't broken. 35. Don't want one.



6.2.2 Feedback on Options

6.2.2.1 Overview

Of the 1249 responses received, 1097 provided a preference ranking. Some responders who answered "No" or "Neither" to question 1 still provided feedback on preference. Some responders (regardless of how they answered question 1) did not provide a ranking for a particular option/s in question 2. This has been interpreted as the responder is strongly opposed to that option such that they have excluded it when ranking options in order of preference.

Table 6-2 summarises the outcome of question 2 of the online survey. It includes all responders who provided an indication of preference ranking, regardless of how they responded to question 1. The percentage of votes for each ranking position across all three options is provided and presented in Figure 6-1. Where responders excluded an option (by not assigning an option a ranked position), this is reflected in the "Excluded" column. The average score is indicative of overall preference, with the lowest score being the most preferred. Where no ranking was provided for a particular option, the option was assigned a score of 4 so that when the average score was calculated, the number of exclusions did not skew the result.

Table 6-2: Summary of preference voting

Option	Percentage of votes for each ranking position				Average score
	First	Second	Third	Excluded	
Option 1: North of the Groyne	9%	14%	8%	3%	2.17
Option 2: South of the Groyne	14%	11%	7%	2%	1.90
Option 3: Eric St	11%	6%	14%	2%	2.22

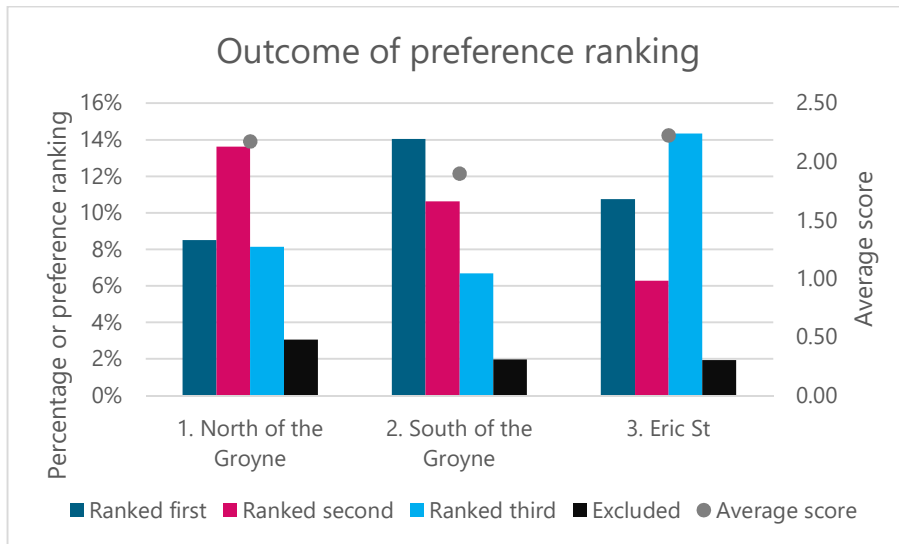


Figure 6-1: Preference ranking for each ocean pool option as a percentage of all votes and average score

6.2.2.2 Option 1: North of the Groyne

Overall, Option 1 was ranked second overall by average score (Table 6-2). However, this option was ranked first less than the other two options and had the highest percentage of exclusion (Figure 6-1).

Comments for and against Option 1 are summarised in Table 6-3. Reason provided in support of this Option are varied. However, the perceived ease in construction (e.g. making use of existing structures) and operation are common themes, as is the proximity to existing facilities and accessibility. Comments against this Option were more consensual with several concerns around the negative impact on existing activities.

Table 6-3: Summary of feedback for Option 1: North of the Groyne

For	Against
1. Most suitable option for majority of public.	1. Would detract from the visual appeal and practical space available.
2. Provides protection from strong south-west winds and currents.	2. Current beach environment would be destroyed.
3. Pool could be used in winter.	3. Too expensive and will not pay their own way.
4. Real ocean pool.	4. Detrimental to current user groups, including surfers.
5. Less financial burden on rate payers.	5. Completely untested, and
6. Lower environmental impact.	
7. A salt water swimming pool as part of the ocean but protected is the best idea.	
8. Cheap and reversible if it didn't work.	



For	Against
<ul style="list-style-type: none"> 9. Enjoy the beach safely 10. Brings the community together 11. Tourism 12. Physical and mental health benefits. 13. More parking compared with North Cott. 14. Proximity to other facilities and beach access. 15. Ocean pools should be about being right on the water. 16. More natural look. 17. Most economical 18. Can be used for children and elderly all year round safely in the ocean. 19. Easiest to develop 20. Public transport closest to groin area. 21. Aesthetically pleasing. 22. Draw tourism. 23. Access from beach – no slippery surfaces 24. Makes use of existing resources 25. With the water polo lanes and swimming lanes there could be the option of hosting and holding events or competitions there with the surrounding concrete boundaries and groyne pathways as possible vantage points. 26. More display area for Sculptures by the Sea. 27. More of an asset in the long run 28. Most scenic 29. Already got half the structure in place. 30. Likes the idea of water polo. 	<ul style="list-style-type: none"> therefore carries more risk. 6. Likely to fill with sand. 7. Irreversible damage to the environment. 8. Already a well-used area and fulfils the public need. 9. Unpredictable impact on environment and sand movement. 10. Too enclosed. 11. Suffer in areas of maintenance, water quality, length/width of pool. 12. Climate change and sea level rises. 13. Ruin the current swimming area. 14. Creates conflict with east west swimmers. 15. Would affect recreational fishing. 16. Would affect surfing areas. 17. Too big and ugly. 18. Affects Cottesloe Surf Life Saving Club nippers training/competitions. 19. Would take away from Sculptures by the Sea and concerts.

6.2.2.3 Option 2: South of the Groyne

Option 2: South of the Groyne was ranked first overall by average score (Table 6-2) and also had the highest percentage of first place ranking (Figure 6-1).

Comments for and against Option 2 are summarised in Table 6-4. Common feedback in support of Option 2 include the lack of impact to the beach and current uses and the swimming experience and amenities it provides. Reasons opposing Option 2 were more varied, but included impacts to the environment and cultural sensitivities, and the usability in adverse weather.



Table 6-4: Summary of feedback for Option 2: South of the Groyne

For	Against
<ol style="list-style-type: none"> 1. Does not impact the existing beach. 2. Would give an "ocean experience"/true ocean pool. 3. Easily accessible to users of all abilities. 4. Lowest impact while making use of an area not currently well utilised. 5. Would blend in. 6. Less likely to be damaged by storms. 7. Ensures constant refreshing of water. 8. Somewhat non-invasive. 9. Public transport closest to groin area. 10. Would be a local pool. 11. Would not affect recreational fishing. 12. Aesthetically pleasing. 13. It adds to the attraction of a pool that can be used by all ,including for training purposes. It also adds a very fine area for another activity , snorkelling just off the side of rock style pool ,this would be able to be controlled by life guards. The main beaches of sand w would still be available to swimmers in the summer and surfers and boogey boarders. The pool would be les open to degradation each year with fronts, tides and waves moving sand around any beach based pool and there fore continued worry about long shore drift and other environmental and climatic changes. The south side of the breakwater being rock would be much more stable for a pool and construction greatly enhanced. 14. Best example of the classic ocean pool. 15. Better integrated in the landscape. 16. Best swimming experience. 17. Closest to train access and ties in well with pedestrian access. 18. Most of key concerns regarding this location can be satisfactorily addressed. 19. Better option as provides a unique tourist attraction. 20. It would provide a different attraction to Scarborough and it is basically what all existing Cottesloe beach goers want. it could also bring more attrition and link to the sundial area that is always missed and adjoining lookout to surfers. For sea breeze concert could have acrylic or glass wind deflectors that could be opened or shut as needed. For parking concerns should build a multi storey carpark behind the Cottesloe surf club adjoining existing small open carpark and put lookout on top with kids playground and function hire, wedding ceremonies etc , would pay for itself in no time and also only in existing view blockage, so nothing for people to complain about. 	<ol style="list-style-type: none"> 1. Too expensive and will not pay their own way. 2. Too exposed to prevailing winds and affects the reef and ecosystem. 3. Requires seawater to be pumped in. 4. Culturally sensitive. 5. Affect the surf break south of the groyne 6. Stops fishing at this location. 7. Unpredictable impact on environment and sand movement. 8. Heritage issues. 9. Climate change and sea level rises. 10. Unusable in storm events 11. Universal accessibility is a concern 12. No facilities



For	Against
<p>Otherwise could take the corner from the golf course, but shaded parking would be something people would pay for in summer (could just charge at busy times like the casino) or first hour free then charge hourly model would be great to encourage movement and help out those just wanting a quick dip struggling to park, as there is none in the area.</p> <p>21. Maintain current look and feel with addition of new amenity.</p> <p>22. Some consider it the only viable option.</p> <p>23. Direct contact with nature in a way, particularly for children.</p> <p>24. More of an asset in the long run</p> <p>25. Aesthetics</p> <p>26. Practicality</p> <p>27. Calmer area for kids to swim in.</p> <p>28. Can be watched from the groyne – adds to safety.</p>	

6.2.2.4 Option 3: Land Based Pool near Eric Street

Option 3: Land Based Pool near Eric Street was ranked last by average score (Table 6-2). However, Option 3 was ranked first more often than Option 1 and also received fewer exclusions (Figure 6-1).

Error! Reference source not found. Comments for and against Option 3 are summarised in Table 6-5. Views from those in favour of Option 3 included the lack of impact to the environment and the scope for facilities and accessibility of different user groups. Feedback against Option 3 was more varied but a key message was that being land based, this Option lacks the ocean pool concept and is not distinguishable from a standard aquatic centre/swimming pool.

Table 6-5: Summary of feedback for Option 3: Land Based Pool near Eric Street

For	Against
<ol style="list-style-type: none"> 1. No cost to the Town of Cottesloe. 2. More integrated with other beach uses. 3. Closer to main future parking station. 4. Doesn't disturb the beach in any way. 5. Better infrastructure around it. 6. Room for more parking and change rooms. 7. Like the size. 8. Dune top walk is a good idea. 9. Improves entry to Cottesloe. 10. Spreads beachfront use to the north. 11. No impact on the reef ecosystem/least environmentally sensitive. 12. Lowest risk. 13. No heritage issues. 14. Considerable stakeholder acceptance from nearby businesses and community of swimmers. 	<ol style="list-style-type: none"> 1. Just another swimming pool, not an ocean pool. 2. Disconnected from the beach. 3. Too exposed to prevailing winds/public areas. 4. More expensive to maintain/use. 5. Parking issues/already congested. 6. Ruin views and beauty of the area. 7. Destroy the



For	Against
<ul style="list-style-type: none"> 15. Run by an incorporated community organisation to be founded to run this pool. 16. Funding options available because of Water Polo/does not need rate payer funding. 17. Provide for elderly and handicapped, schools, community and sporting groups. 18. Safer than open water. 19. Can be used all year round. 20. Could hold various events. 21. Doesn't interfere with the beach. 22. Can accommodate a lot more people. 23. Opportunity to create something of merit from all angles. 24. Easily accessible by all age groups. 25. Creation of a node enhancing the entrance to Cottesloe. 26. Non-invasive to existing beaches/environment 27. Extends the coastal experience to a greater area for more people 28. Utilising a currently underused area without affecting any of the current busy beach spots. 29. Most practical. 30. Most financially sustainable. 31. Low visual impact. 32. Ideal location for culture. 33. Would be very popular. 34. Will be heavily used by North Cott Surf Life Saving Club 35. More convenient 36. Will attract more investment to the area. 37. Bigger pool can service more of the community. 38. Reversible. 	<ul style="list-style-type: none"> community feel and intimacy/sense of belonging. 8. Won't be a local pool. 9. Offers nothing unique. 10. Traffic in the area during summer.

6.3 Conclusions

Overall, the community were strongly in favour of an ocean pool in Cottesloe. Of the options available, Option 2: South of the Groyne was the most preferred by the community considering the overall average score, the distribution of preference ranking and the number of exclusions.

Option 1: North of the Groyne was the next preferred option based on average score and received the greatest number of second place rankings. However, this option had the lowest number of first preference rankings and received the greatest number of exclusions. Based on negative feedback received, responders who were against Option 1 had strong opinions largely based on impacts to current beach use.

Option 3, while ranking last based on average score, had fewer exclusions and more first place ranking places compared to Option 1. In general, negative feedback for Option 3 were more around the value of the proposal rather than the impact. This indicates that Option 3 is less controversial compared to Option 1.



7 Conclusions and Recommendations

7.1 Feasibility of the Schemes

An overview of the result of the assessment on the feasibility of the three proposed ocean pool options is presented in Appendix D. The main concerns identified, that may influence the feasibility of the options are presented below.

7.1.1 Ocean Pool North of Groyne

This option is relative straightforward development following a series of earlier proposed basin concepts, all located in a position sheltered from the summer seabreeze by the Cottesloe groyne. This option has little impact on the natural environment and the rock construction may even increase the aquatic life.

The main concerns identified with this option are the following:

- Lack of new amenities, increasing pressure on existing facilities;
- Significant distance from main car parks, potentially reducing the accessibility for certain user groups;
- Depending on chosen level, rock structure may block the view of ocean and horizon which may affect the experience of swimmers and beachgoers;
- Self-flushing capacity to be confirmed in detailed studies to guarantee clean swimming water all year around;
- Pool may be difficult to clean from potential ingress of sand and sea wrack over time and due to storms;
- Although not at boundary: the proximity of pool to aboriginal heritage area (Moondoorup Rocks) may be an issue in approval process;
- Pool may impact on existing activities, including surfing.

7.1.2 Ocean Pool South of Groyne

Based on the assessment, this option is considered to have some controversial aspects. On the one hand this option resembles most to the classic rock pool image, where pools are located in or on top of a rocky platform, directly adjacent to the ocean. This option is expected to provide the most exciting swimming experience of the options and does not impact on use of the main beach.

On the other hand, a number of concerns were identified which may impede a successful development of this option. The main concerns include:



- Heritage issues, as the pool is located partly or in adjacent to (depending on the definition of the area) aboriginal heritage land, Moondoorup Rocks;
- Environmental issues, as the pool to be constructed in the intertidal area of a reef located in a marine protection zone. Potential impact to the reef area due to geotechnical investigations and construction activities.
- High exposure to the seabreeze during the summer months;
- Significant distance from main car parks, reducing the accessibility for certain user groups;
- Uncertainty in suitability of existing reef as foundation of a pool: expensive geotechnical field investigation required which may indicate the need for expensive piled foundation of the pool;
- Isolated location may invite undesired activities during after-hours;
- Due to construction on the reef, returning the site to previous state in future would not be possible.

7.1.3 Land Based Pool near Eric Street

This option has the benefit of being easy accessible due to the location adjacent to the road and a nearby main carpark. This option is furthermore located close to existing amenities and adds further amenities, such as a waterpolo pool. It is expected that this option has little environmental nor heritage issues and its influence on the wave climate is negligible. This option will furthermore spread the recreational activities along a longer stretch of the coastline, which is expected to alleviate traffic and parking around the main Cottesloe beach and will increase the local business activity near the location of this option.

The main concerns identified with this option are the following:

- Location in a more urban environment than the other options with proximity to road and amenities will give it less of an ocean pool swimming experience;
- Potential future coastal erosion may affect pool structures and other assets built near the coastline. This may need mitigating measures in time such as coastal protection if pool foundation does not extend to Tamala limestone.

7.2 Financial Assessment

Whole of life costs (capital & operational costs over the full life of the pool structures) have been determined for the three assessed options.

A summary table is presented in Table 7-1.



Table 7-1 Summary of whole of life cost estimates

Description	Option 1 Million AUD	Option 2 Million AUD	Option 3 Million AUD
Capital Cost	7.5	8.6	10.3
Operating Cost	4.2	10.8	21.6
Other Whole of Life Cost	3.3	1.0	1.0
Abandonment	2.8	3.2	3.9
Escalation	Excluded	Excluded	Excluded
Total Cost	17.7	23.7	36.8

It can be seen that the total of life cost for Option 3 is more than double the costs of option 1. The cost for Option 2 is 34% more than Option 1.

Although part of the difference in total life cost for the options can be explained by the higher capital cost for Option 3, the main differentiator is the operating cost. The operation cost for Option 1 is significantly lower than for the other options due to the absence of an ocean water pumping system. Operating costs for option 3 are highest as it is expected that three full time staff are required.

It should be noted that the proponents for all 3 assessed options have advised that they have funding options available. Therefore, costs for a future facility to be carried by the community (for instance directly as entrance fees or indirectly as council rates) do not have to relate to the construction and operational cost of the assessed options.

7.3 Community Consultation

An online survey, following the presentation of the assessment of the options, was held to understand if an ocean pool was wanted by the community and if so, which option was preferred.

From the survey it was found that almost 80% of all 1249 respondents were in favour of having an ocean pool, 18.5% were against.

The online survey furthermore identified clearly that Option 2 is preferred by the community. Not only did it score highest as the preferred option, it also scored lowest as least preferred option.

7.4 Recommendation

Although Option 2 was assessed to have a significant number of concerns, this option is preferred by the community. It is therefore recommended to use this option as the basis for the development of an ocean pool in Cottesloe.



7.5 Way forward

Following the current high level comparative study (Stage 1 of the Feasibility Study-this report), a number of stages will have to be completed as part of the development of an Ocean Pool at Cottesloe. These stages and the activities are described in the sections below, assuming the concept will be based on Option 2.

Early in the project a choice should be made regarding the contractual form for the project, as it defined the responsibilities for the parties involved. In most cases the design activities would be executed by engineering consultant under a direct contract with the client. The client could be the Town of Cottesloe as well as a private entity. After completion of the design activities, the client would sign a separate contract for the construction of the facilities (construct only contract). During the execution stage, the engineering consultant could act as the owners' engineer, providing supervision of the construction work to ensure the works are being executed as per the contract.

An alternative would be a Design and Construct contract, whereby the contractor is responsible for both the engineering as well as the construction of the facilities under a single contract with the client. In this situation the contractor would subcontract the engineering and design activities to an engineering consultant of his choice.

7.5.1 Feasibility Design Stage

Development of a conceptual design of the ocean pool, including amenities. This would consist of the following activities:

- Concept plan development: showing the layout of the pool at its location, including amenities.
- Engagement with relevant government agencies: Engage with agencies including, but not limited to, Department of Planning, Lands and Heritage, Department of Water and Environmental Regulation, WA Planning Commission, South West Aboriginal Land and Sea Council and Department of Fisheries to confirm approval/permitting and associated environmental study requirements.
- Environmental study: Detailed desktop study and field survey to confirm environmental constraints with a view of identifying appropriate sea water intake location and proposed pool footprint with a view of avoiding and/or minimising environmental impacts.
- Geotechnical investigation: High level investigation to determine the bearing capacity of the reef. The results of this study will govern the required scope of the geotechnical field investigation during the detailed design stage.
- Coastal Study: Determining extreme design wave heights as input for wave overtopping assessment and to determine design wave forces on the structure. The influence of this option on the wave climate (due to wave reflection) needs to be assessed, potentially together with mitigating measures. Furthermore, wave and sedimentation modelling is required to confirm there is negligible impact of the option on the sedimentation patterns along the area.
- Updated Lifecycle cost estimation: update of the lifecycle cost estimate, as presented in the current report, to a more detailed lifecycle cost estimate based on the detailed concept plan including coastal protection if required.



- Development of a design basis (Basis of Design): Collecting all relevant design data such as water level data, topographical data, geotechnical data (see separate item below), which will form the basis of the detailed design. The development of the design basis will also identify potential gaps in design data which will need to be closed out as part of the detailed design stage.
- Community Consultation: continuation from the community consultation activities in the current (stage 1) feasibility study, including input through the Town of Cottesloe's website and another community workshop to discuss the selected option.
- Preparation of a detailed feasibility report: this report presents the outcome of the various tasks listed above. This report is not only intended to inform the stakeholders of the outcome of the feasibility study, but also to form the basis of the detailed design.
- Preparation of a financial feasibility study: this study is required to investigate the financial model of the project, taking into account capital and operational expenditure (CAPEX and OPEX) as well as financial and economic benefits of the facility.
- Develop project organisation for detailed design, construction and operational stages

7.5.2 Detailed Design Stage

Although the exact scope of a number of activities will be defined during the feasibility design stage, we expect the following activities to be required for the detailed design stage:

- Detailed geotechnical field investigation: execution of a limited amount of test to determine the properties of the subsoil. These would typically consist of boreholes.
- Structural design of pool, buildings and other structures, including foundation design
- Civil and Services Infrastructure design, including cut/fill balance, pavement design, drainage, potable & fire water supply, firefighting system, sewerage, power & lighting, communications and CCTV.
- Pumping system design, including geothermal heating system if applied.
- Coastal infrastructure design (eg. reflecting seawall, if required).
- Landscape & architectural design
- Preparation of a detailed design report: this report presents the outcome of the various tasks listed above.
- Financial plan, including funding and lifetime cost estimation
- Preparation of technical and contractual tender documents, including
 - Drawing package
 - Technical specifications
 - Detailed construction cost estimate
- Obtain statutory development approvals and building permits. This will include but not be limited by the preparation of relevant environmental management plans to ensure construction impacts are minimised.



7.5.3 Tender Stage

- Submission of tender documents as open tender or to shortlisted contractors
- Replying to tender queries
- Contract discussions and signing of construction contract

7.5.4 Construction and Defect Liability Stage

This stage consist of the execution of the construction works as per the tendered contract, after which the facilities can be handed over to the client for operation.

7.5.5 Operational Stage

This stage is the stage in which the ocean pool facility is operational. Activities in this stage will be mainly focussed on continuity of operation, safety and maintenance aspects.



8 References

Advisian, 2017, Cottesloe Pier, Coastal Processes and Sedimentation Impact Study.

Website: <https://allintooceanpoolsinc.org>

Coastal Zone Management, 2008, Vulnerability of the Cottesloe Foreshore to the Potential Impacts of Climate Change.

DoT, 2010, Sea Level Change in Western Australia, Application to Coastal Planning.

Cardno, 2017, Cottesloe Coastal Monitoring, Annual Summary Report – April 2016 to March 2017.

Gozzard, J.R. (1986) Perth Sheet 2034 II and part 2034 III and 2134 III, Perth Metropolitan Region, 1:50,000 Environmental Geology Series, Geological Survey Of Western Australia

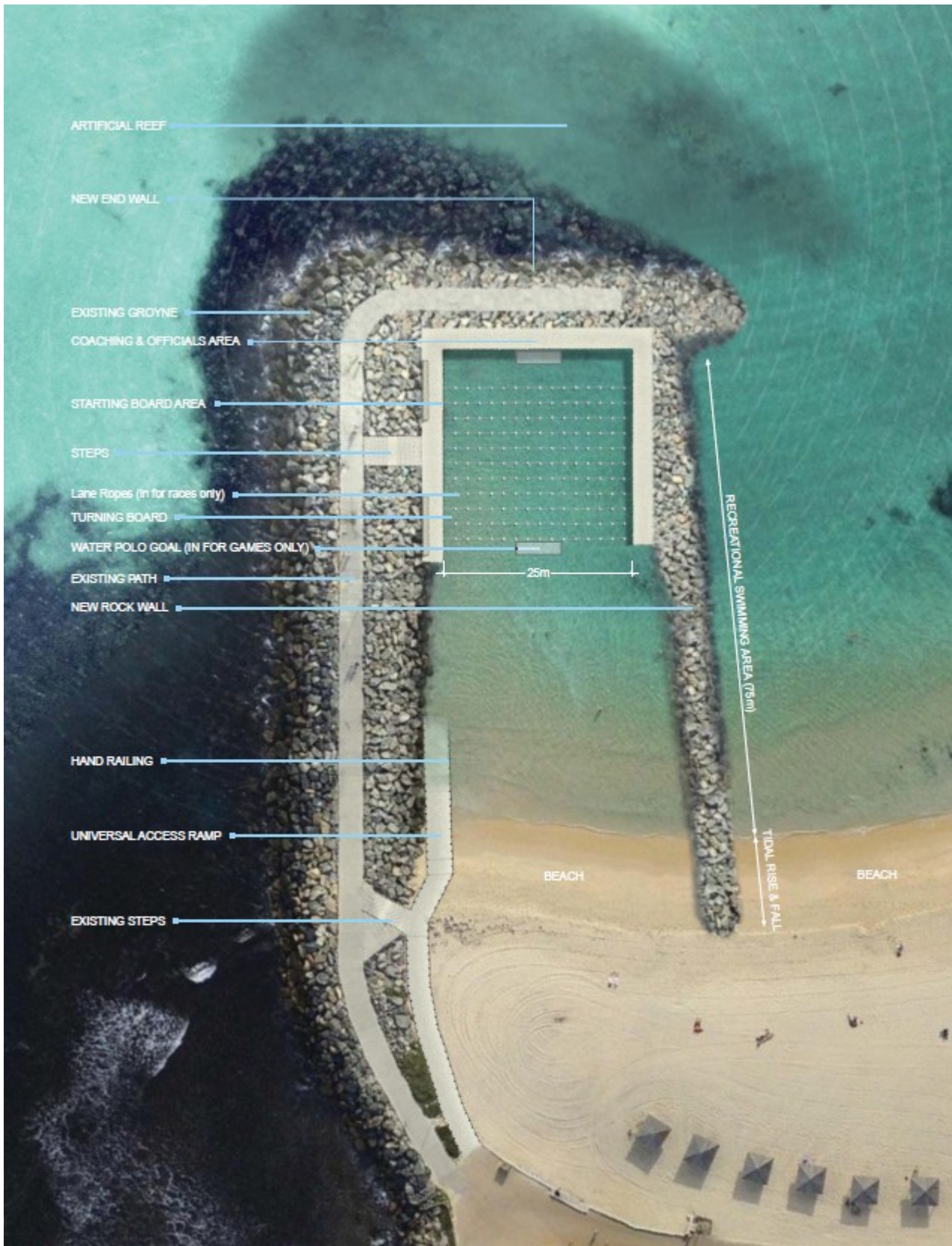


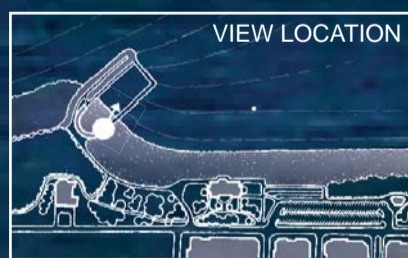
Advisian

WorleyParsons Group

Appendix A Artist impression - Pool north of Groyne







VIEW LOCATION

ROCKY HEADLAND TO BE UNDISTURBED AND EXISTING FOOTPATH TO BE WIDENED AND RESEALED TO CATER FOR EMERGENCY & MAINTENANCE VEHICLES.

POSSIBLE BEACH CHAIR HIRE WITHIN CULTURAL NODE.

CULTURAL & EVENT NODE IN SEMI PROTECTED AREA SURROUNDED BY A ROBUST SHADE ELEMENT. PROPOSED EVENTS MAY INCLUDE SCULPTURES BY THE SEA, OUTDOOR CINEMA, CONCERTS AND KIDS SCHOOL HOLIDAY EVENTS.

PROPOSED DISABILITY RAMP AND HANDRAIL TO PROPOSED OCEAN POOL.

RETAIN EXISTING ROCK GROUYNE, ADD NEW ACCESS PATH TO EDGE OF PROPOSED OCEAN POOL.

DISABLED, INFIRM, AGED AND PRAM ACCESS TO BEACH INCLUDING SHADY SEATING AND VIEWING AREA.

PROPOSED 25m WIDE OCEAN POOL.

POTENTIAL ARTIFICIAL SURF REEF LOCATED AT END OF OCEAN POOL STRUCTURE.

ROBUST SHADE ELEMENT BUILT INTO OCEAN POOL STRUCTURE, INCORPORATING DIRECTIONAL AND EDUCATIONAL SIGNAGE.

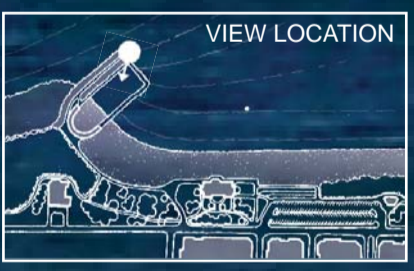
EXISTING SURF BEACH TO REMAIN UNALTERED.

Cottesloe Ocean Pool Advisory Group
UWA Centre for Water Research
Surf Life Saving WA
Prof John Bloomfield (former head of the AIS)
Swimming WA
Worley Parsons - Coastal Engineering Division
Water Polo WA
Masters Swimming WA
WA Disabled Sports Association (WADSA)
Technology Assisting Disability WA (TADWA)
Emerge Associates - Landscape & Environment

COTTESLOE OCEAN POOL BEACH SHADE STRUCTURE VIEW

DON MORRISON POOL

THIS IMAGE IS INDICATIVE ONLY AND SUBJECT TO FURTHER DISCUSSIONS AND APPROVALS



POSSIBLE SURF REEF CAN BE BUILT AS PART OF THE POOL CONSTRUCTION TO CATER FOR SEASONAL SURFERS.

NEW LOW ROCK GROUYNE.

EXISTING SAND BASE TO BE RETAINED & ENCLOSED BY THE NEW LOW GROUYNE, WHICH WILL INCLUDE PERVIOUS EDGES TO ENABLE CONTINUOUS WATER FLOW AND NATURAL OCEAN POOL FILTRATION.

25m LAP MARKERS CAN BE INSTALLED OR REMOVED TO SUIT VARIOUS SEASONAL OR EVENT NEEDS.

A NEW CONCRETE POOL DECK SURROUNDS AND ENCLOSES THE BEACH POOL AND WILL INCLUDE INFORMAL SUN SEATING, POOL LADDERS AND POOL RAMP ACCESS.

CULTURAL & EVENT SPACE WILL OCCUR IN THE SEMI PROTECTED AREA SURROUNDED BY A ROBUST SHADE ELEMENT. PROPOSED EVENTS MAY INCLUDE SCULPTURES BY THE SEA, OUTDOOR CINEMA, CONCERTS AND KIDS SCHOOL HOLIDAY EVENTS.

NEW ACCESS STAIRS WILL LINK THE TOP OF THE GROUYNE TO THE LOWER POOL DECK AND PROVIDE INFORMAL SEATING.

ADDITIONAL LIGHTING CATERS FOR LATE EVENING & EARLY DAWN POOL USE.

RETAIN AND PROTECT THE EXISTING ROCK GROUYNE AND FOOTPATH.

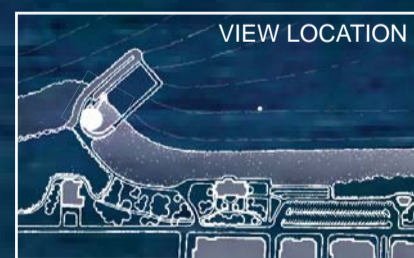
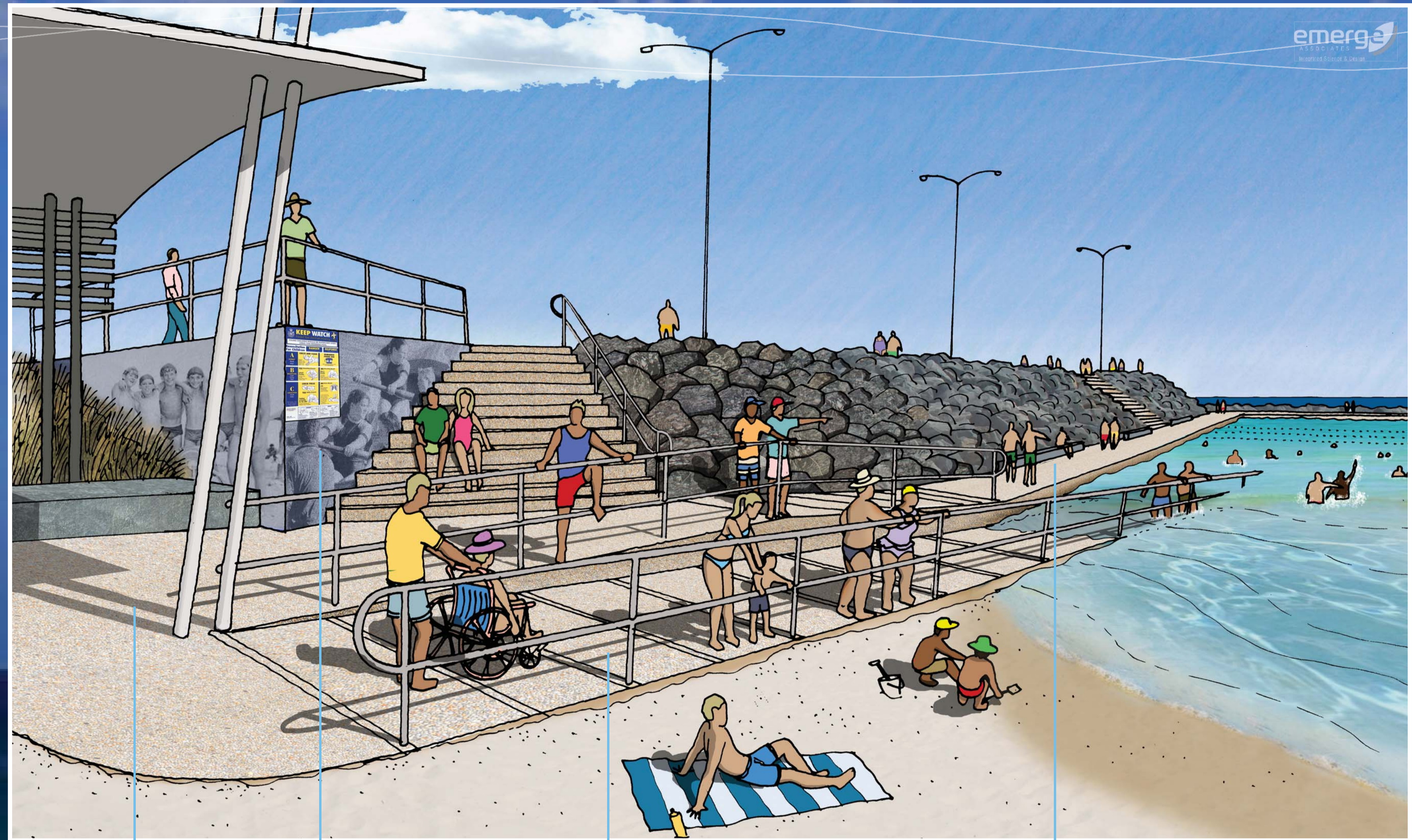
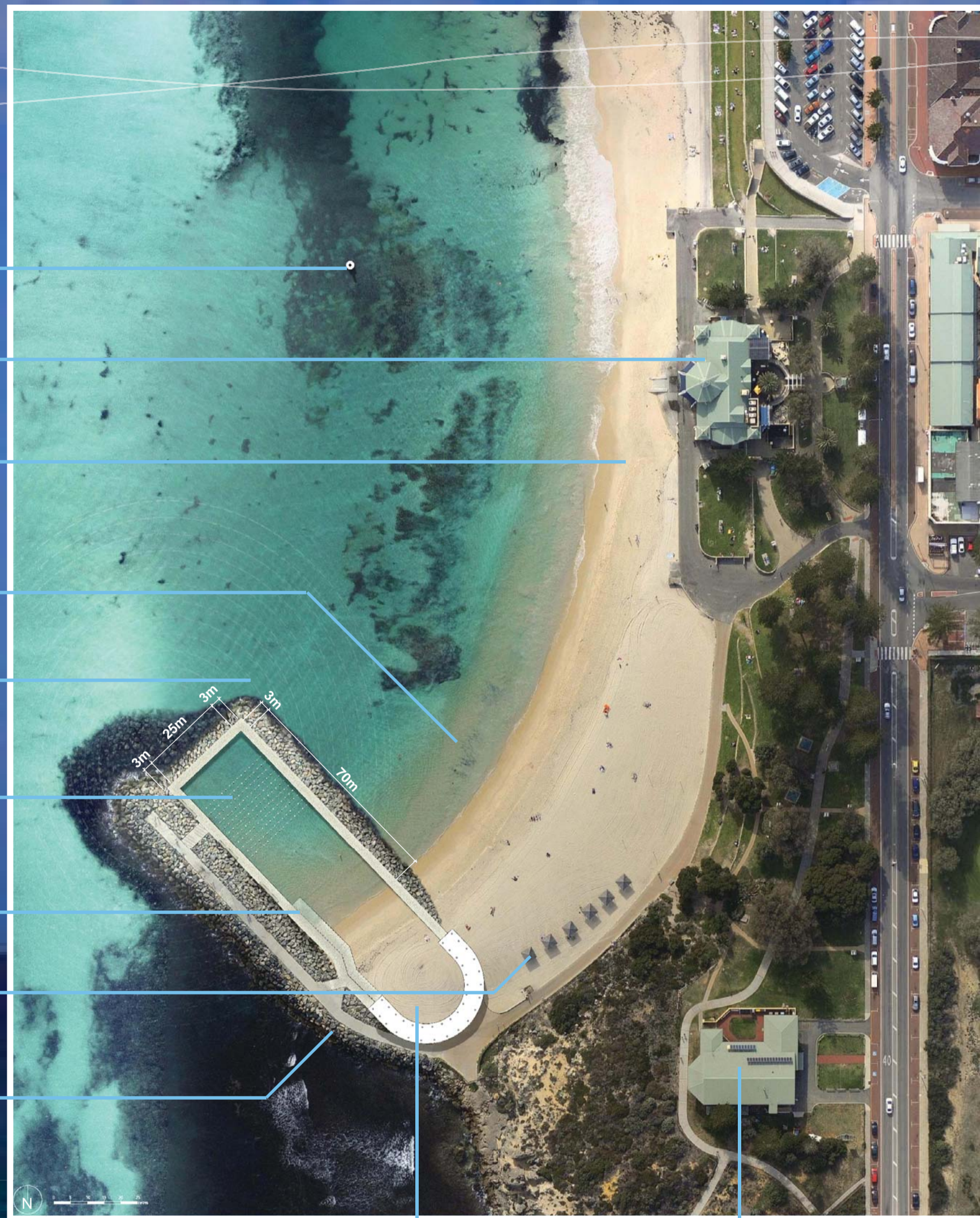
COTTESLOE OCEAN POOL

DON MORRISON POOL

PROTECTED OCEAN POOL VIEW

THIS IMAGE IS INDICATIVE ONLY AND SUBJECT TO FURTHER DISCUSSIONS AND APPROVALS

Cottesloe Ocean Pool Advisory Group
 UWA Centre for Water Research
 Surf Life Saving WA
 Swimming WA
 Worley Parsons - Coastal Engineering Division
 Water Polo WA
 Masters Swimming WA
 WA Disabled Sports Association (WADSA)
 Technology Assisting Disability WA (TADWA)
 Emerge Associates - Landscape & Environment



COTTESLOE OCEAN POOL

DON MORRISON POOL

PLAN VIEW & INNER COMMUNITY POOL ACCESS VIEW

THIS IMAGE IS INDICATIVE ONLY AND SUBJECT TO FURTHER DISCUSSIONS AND APPROVALS

- EXISTING PYLON.
- INDIANAS.
- EXISTING BEACH TO BE RETAINED AND PROTECTED.
- PROTECTED OCEAN SWIMMING AREA.
- POSSIBLE ARTIFICIAL SURF REEF AT END OF GROUYNE.
- DON MORRISON POOL INCLUDING LANE MARKING IF DESIRED.
- POOL ACCESS RAMP AT 1:20 GRADE WITH HANDRAIL, GRADUALLY SLOPING INTO WATER.
- RELOCATE 2 X EXISTING CABANAS, KEEP 4 EXISTING CABANAS UNALTERED.
- ADD NEW LIGHTING ALONG GROUYNE, CONNECT TO EXISTING POWER.

CULTURAL NODE BOUNDED BY PROPOSED SHADE ELEMENT THAT PROVIDES SHADE TO BEACH, NEW BEACH SHOWERS AND SEATING UNDERNEATH.

EXISTING COTTESLOE SURF LIFE SAVING CLUB.

SHADE ELEMENT PROVIDES COVERED SEATING CLOSE TO THE WATERS EDGE.

PUBLIC ART AND SIGNAGE FIXED TO THE EXISTING WALL.

POOL ACCESS RAMP AND HANDRAILS EXTENDS FROM THE BEACH EDGE DOWN INTO THE WATER.

NEW POOL ACCESS PATH TO BASE OF THE EXISTING ROCK GROUYNE.

Cottesloe Ocean Pool Advisory Group
 UWA Centre for Water Research
 Surf Life Saving WA
 Prof John Bloomfield (former head of the AIS)
 Swimming WA
 Worley Parsons - Coastal Engineering Division
 Water Polo WA
 Masters Swimming WA
 WA Disabled Sports Association (WADSA)
 Technology Assisting Disability WA (TADWA)
 Emerge Associates - Landscape & Environment



Advisian

WorleyParsons Group

Appendix B Artist Impression - Pool south of Groyne









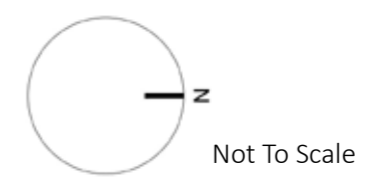
Appendix C Artist Impression - Land Based Pool near Eric Street





Cottesloe Foreshore Eric Street Precinct and Pool Plan

- 1 Water Polo Pool
- 2 Lap Pool
- 3 Settling Pool
- 4 Elevated Boardwalk
- 5 Barchetta
- 6 Blue Duck and North Cottesloe Lifesaving Club
- 7 6m Landscaped Promenade
- 8 Ocean Beach Hotel





Appendix D Summary Table



	1	2	3
	Ocean pool North of Groyne	Ocean Pool South of Groyne	Land based pool near Eric Street
Planning Approvals			
National Native Title Tribunal (The relevant requirements of the Native Title Act 1993 need to be met for the grant of any new tenure)	Possible	Possible	Possible
Department of Planning, Lands and Heritage (Permission is required under s.18 if the proposed activities has the potential to disturb Aboriginal heritage)	Possible for potential impacts on Moonderup Rocks (also called Mudurup Rocks)	Likely for impacts on Moonderup Rocks (also called Mudurup Rocks)	Unlikely
Department of Water and Environmental Regulation (referral to the Environmental Protection Authority (EPA) for proposals likely to have a significant impact)	Unlikely	Possible due to potential impacts on Moonderup Rocks (also called Mudurup Rocks), benthic communities and habitats and marine fauna	Unlikely
WA Planning Commission and/or Cottesloe Council (Approval under the Metropolitan Region Scheme)	Required, as well as referral to Department of Planning, Lands and Heritage prior to determination	Required, as well as referral to Department of Planning, Lands and Heritage prior to determination	Required, as well as referral to Department of Planning, Lands and Heritage prior to determination
Department of Water and Environmental Regulation (permit to clear native vegetation under the Environmental Protection (Clearing of Native Vegetation) Regulations 2004)	Unlikely	Possible	Possible
Department of Planning, Lands and Heritage (a development referral is required under the Heritage of Western Australia Act 1990 for impacts on items on the State Register)	Likely	Likely	Unlikely
Environmental & Sustainability Aspects			
Benthic communities and habitats	Pool located within Cottesloe Fish Habitat Protection Area on a sandy bed. Rock structure would create artificial reef habitat potentially increasing aquatic life. Construction would potentially impact water quality and habitats through temporary increase in turbidity, accidental spills from construction plant, concreting, etc. Existing groyne would partially act as barrier from the proposed works to the reef to the south.	Pool including pipeline located within Cottesloe Fish Habitat Protection Area. This option would require the partial reclamation of a sensitive intertidal reef platform. There is a high probability of water quality impacts during construction on a sensitive reef habitat (temporary increase in turbidity, accidental spills from construction plant, concreting, etc).	Pipeline located within Cottesloe Fish Habitat Protection Area. Careful siting of pipeline can minimise impacts to more sensitive habitats. Construction of the pipeline could potentially impact water quality and habitats through temporary increase in turbidity, accidental spills from construction plant, etc.
Marine Fauna	Potential impacts from construction noise on marine mammals Rock structure would create artificial reef habitat potentially increasing aquatic life.	Potential for impingement/entrainment and water quality impacts from the inlet/outlet near sensitive reef habitat where seadragons and other marine fauna occur. Impacts on habitats can be minimised through careful siting of outlet and inlet. Potential impacts from construction noise on marine mammals	Potential for impingement/entrainment and water quality impacts from the inlet/outlet . Impacts on habitats can be minimised through careful siting of outlet and inlet. Potential impacts from construction noise on marine mammals, though likely to be minimal as it would be limited to the construction of the pipeline
Flora and Vegetation	Terrestrial flora and vegetation is unlikely to be impacted.	Terrestrial flora and vegetation is unlikely to be impacted.	Some native coastal vegetation commonly found along the coast, including north and south of the proposal site would need to be removed.
Aboriginal and State Heritage			
Aboriginal Heritage	Moonderup Rocks (also called Mudurup Rocks) is a site of aboriginal significance. Proposed pool is located adjacent to the site and there is potential for indirect impacts.	Moonderup Rocks (also called Mudurup Rocks) is a site of aboriginal significance. Proposed pool located at the site and there is potential for direct impacts.	No Aboriginal heritage sites in proximity.
Non-Aboriginal Heritage	Pool located within curtilage of Cottesloe Beach Precinct listed on the State Register.	Pool located within curtilage of Cottesloe Beach Precinct listed on the State Register.	Minimal heritage constraints at the site.
Architectural Aspects			
Influence on surrounding area	Will increase concentration of activities near groyne. Proposed pool facility utilises existing beach front. Adds pressure on existing amenities. Adding toilets difficult due to distance from existing sewer. Construction of facilities will have some disruptive impact on general public.	Will increase concentration of activities near groyne. Pool facility utilises currently unused area. Proposes some additional amenities such as kiosk. Adding toilets difficult due to distance from existing sewer. Construction of facilities will have minimal disruptive impact on general public.	Will spread recreational activities along longer stretch of coastline. Will increase property values and business activity to surrounding cafes, restaurants. Appears not to propose additional amenities, however adding toilets is simple due to close proximity from existing sewer and power. Construction of pool and facilities will have minimal impact on general public and some short term disruptive impact on existing surrounding businesses.
Swimming experience & Aesthetical aspects	Harsh visual impact of rock structure. No ocean view for swimmers. Diminishes ocean views for general public using beach. Nearby fishing activities may give disturbance (fish debris, smells, rodents). Pool limited in size at 25m length, Protection from winds by the groyne is a positive feature in the winter. Accessibility may be an issue due to significant distance from closest available carpark.	Ocean Pool feeling, similar to ocean pools in Eastern States. High Exposure to seabreeze is a negative feature in the summer, and may be a significant deterrent to users in winter. Accessibility may be an issue due to significant distance from closest available carpark.	Distance from beach and sea will give more of a swimming pool experience whilst enabling ocean views. Proximity to Marine Parade will result in more urban experience. Location has high accessibility and proximity to parking for general public.

	1	2	3
	Ocean pool North of Groyne	Ocean Pool South of Groyne	Land based pool near Eric Street
Fit with council policy (reversible if required)	If future removal is required, the rock structure can be removed with little impact, and the site can be restored to its original condition.	If future removal is required, the demolition will have additional impact on the reef, and the site cannot be returned to its original condition.	If future removal required, the pool structure can be removed with little impact, and the site can mostly be restored to its original condition.
Aesthetic aspects for tourist landmark	Limited opportunity, offers pool and protected swimming, but no additional facilities or architectural features.	Some opportunity, comparable to Ocean Pools in Eastern states, however some access issues, and not readily visible from street.	Some opportunity, excellent location at gateway to Cottesloe from North East, High visibility, utilises existing adjoining facilities (cafes, change rooms, carparking)
Community and Social Aspects			
Construction - Noise and Dust	May impact/deter beach users and potentially Indiana Teahouse	May potentially impact/deter beach users	May impact neighbouring cafes/hotels and local residents
Construction - Traffic/Congestion	May temporarily interfere with local traffic along Marine Parade – near groyne, in particular if construction undertaken in peak season	May temporarily interfere with local traffic along Marine Parade – near groyne, in particular if construction undertaken in peak season	May temporarily interfere with local traffic along Marine Pde - intersection of Eric Street/Marine Pde, in particular if construction undertaken in peak season
Construction - Visual Impact	Likely to temporarily impact visual amenity of Cottesloe beach	Likely to temporarily impact visual amenity of Cottesloe beach	Visual amenity of patrons at OBH and surrounding businesses/residents
Recreational Use during Construction	Likely to affect groyne access and use of the swimming beach	Likely to impact access to intertidal area south of the groyne and potential to affect groyne access.	Minimal interference with ocean/beach use
Economic/Tourism during Construction	Potential disruption to main beach area (access, visual amenity, etc) and therefore potential for reduction in visitors/tourism, in particular if construction undertaken in peak season	Potential disruption to main beach area (access, visual amenity, etc) and therefore potential for reduction in visitors/tourism, in particular if construction undertaken in peak season	Minimal interference with main ocean/beach accessibility to the south and therefore unlikely to affect visitors to main beach. May affect visitors to neighbouring businesses due to amenity impacts (noise)
Operation - Visual Impact	Would change the local landscape of the main section of Cottesloe beach and potential to have a high visual impact	Would change the local landscape of the main section of Cottesloe beach and potential to have a moderate visual impact	Will not change the landscape of the main section of Cottesloe beach
Operation - Recreational Use	Potential to conflict with other users of the groyne (fishermen who utilise the groyne, kayakers/surfers, etc) Would provide additional facility for local surf lifesaving Will provide a safe protected swimming area Freely accessible	Will not impact the existing groyne and main beach area but would remove some of the intertidal reef. Would provide additional facility for local surf lifesaving Will provide a safe protected swimming area Paid or freely accessible to be decided	Minimal conflicts with other users Would provide additional facility for local surf lifesaving, local schools and water polo clubs Will provide a safe protected swimming area Paid facility may restrict use of facility
Operation - Impact on Existing Amenities	Potential additional pressure on existing amenities due to potential increase in number of visitors	New amenities can be constructed	New amenities would be constructed with Option 3
Operation - Impact on Traffic and Parking	Potential to increase visitors and add pressure on available parking – near groyne	Potential to increase visitors and add pressure on available parking – near groyne	Potential to increase visitors and add pressure on available parking – near Eric Street
Economic/Tourism during Operation	Potential for positive impact on local economy and tourism	Potential for positive impact on local economy and tourism	Potential for positive impact on local economy and tourism
Safety	Life guards already patrol area. A second groyne access will attract children climbing on the rocks, which can be dangerous . Extended groyne length will attract increased fishing activity, Proximity of public swimming activity and fishing will lead to some increased safety issues.	Potentially outside the area of supervision of lifeguards, no line of sight from beach, nearby supervision of kids required Risk of fall from pool and platform edge into the sea. Exposure to south west may increase risk of harm from high waves. overlapping pool.	Private facility, will need to provide supervision. Safety aspects as per normal swimming pool
Security	Same as for adjoining public beach	Close off at night possible Security risk due to isolation of location, low visibility from public areas, however possibility to fence off.	Closed off at night, private facility, high security, high visibility from adjacent public areas
Coastal engineering Aspects			
Water quality & circulation	Can be made natural flushing, studies available. Potentially no pumps required. Flushing rates could be a concern at neap tides due to the small tidal range at cottesloe. Flushing rates can be increased by adding weirs or by lowering the crest of the structure to allow more overtopping. Water level will move with tides. Depth will change with tides and distance from deck to water level as well.	Intake/outfall structure with pumps required to circulate the seawater. Additional construction and operational costs. Operational aspects of pumping to be considered: placement and orientation of intake, strainer on intake, 2 pumps + small vacuum pump for priming, suction pipe need to be oversized to allow for reduction of the pipes due to marine growth (reduction can cause cavitation). PVC pipes recommended (corrosion), settling tank to be considered to reduce debris/sediment in pool. Diving once or twice a year expected to clear the strainer.	Intake/outfall structure with pumps required to circulate the seawater. Additional construction and operational costs Water line 5 m above ocean level, significant height to pump seawater, will increase operational costs. Operational aspects of pumping to be considered: placement and orientation of intake, strainer on intake, 2 pumps + small vacuum pump for priming, suction pipe need to be oversized to allow for reduction of the pipes due to marine growth (reduction can cause cavitation). PVC pipes recommended (corrosion) Diving once or twice a year expected to clear the strainer.
Erosion / sedimentation	little change in erosion / sedimentation regime expected: shift of beach profile northwards expected. Beach may widen in front of tea house. Timing of construction will impact depth of the pool. End of summer, when beach is narrower, may be more favourable for depth. Sediment may be washed into the pool during storm events.	No impact on coastal erosion/sedimentation expected.	No impact on coastal erosion / sedimentation, but an eroding coastline may impact the structure in the future. If a seawall were required to protect the structure, this would impact erosion patterns and may cause wave reflection.

	1	2	3
	Ocean pool North of Groyne	Ocean Pool South of Groyne	Land based pool near Eric Street
Wind	Location will be sheltered from wind	Exposed to wind, especially southerly seabreeze	Can be protected from wind
Waves	Exposed to waves. Groynes to be designed to the expected wave loads. Wave overtopping need to be considered for structural and safety aspects. The extent of the overtopping depends on the crest level.	Exposed to waves, but only during severe storms. Top-deck infrastructure to be designed to withstand overtopping. The pool needs to be designed for wave loads. Wave reflection could impact the waves at the groyne	
Weed ingress	Seaweed may get into the enclosure during storms. Cleaning of the pool will be difficult.	Seaweed may get into the enclosure during storms. Cleaning of the pool will not pose issues as the pool can be emptied. Some debris may end up in the pool through the pumps. No major issues expected as long as the intake has a strainer installed at the end and is pointing upwards, sufficiently high above the seabed.	The settling tank will need intermittent cleaning. No major issues expected as long as the intake has a strainer installed at the end and is pointing upwards, sufficiently high above the seabed.
Heating	Pool water temperature in winter will be moderate, due to contact with surrounding ocean water. Heating will be inefficient due to location of pool in ocean. System will also add to costs.	If heating is required then a geothermal system may be economical Discharge of heated water may impact the aquatic environment of the reef, unless discharged further away. May need a dispersion study.	If heating is required then a geothermal system may be economical. Discharge of heated water may impact the aquatic environment of the reef, unless discharged further away. May need a dispersion study.
Impact on surfing / waves	wave reflection off increased groyne. Potential to build surfing reef.	Reflection of waves could be a concern for nearby surf spot 'The Cove' but can be mitigated by angles and texture of the wall.	None
Effect of climate change	Can be extended or elevated when required, overtopping during storms may increase in time due to sea level rise	Sea level rise less a problem due to vertical walls, overtopping during storms may increase in time due to sea level rise	Erosion of the coastline is likely to increase due to climate change and may eventually lead to undermining of the structure.
Civil Engineering Aspects			
Maintenance	If required, will be difficult to clean	Easier to clean	Easier to clean
Durability (e.g. winter storms, marine environment)	Rock structure, designed to withstand storm conditions without damage	expansion and contraction associated with the emptying and filling of a concrete pools can place stress on the pool and lead to hairline cracking - needs to be well designed as subsequent saltwater infiltration of the steel reinforcement mesh has caused significant financial expense for some NSW local governments e.g. the City of Wollongong and Port Kembla Pool.	
Constructability			
Geotechnical Aspects			
Foundation Conditions	Sand over rock	Reef Platform (Mudurup Rocks)	Safety Bay Sand over limestone. The Safety Bay Sand is likely to be more than 5m in thickness.
Bearing capacity and settlement	Adequate foundation bearing capacity on sand. Structure settlement will occur immediately as construction proceeds. Settlement is not considered to be a critical issue for the rock structure.	Reef thickness is unknown and may not be part of rock formation; unknown bearing capacity. Caves could be present. Will need geotechnical investigation, which is difficult to execute on this location	Adequate foundation bearing capacity on sand. The Tamamala Limestone can have irregular subcrop level and can contain large cavities (voids); if occurs at shallow depth, it could impact on structure differential settlement. Specific geotechnical investigation will be required to assess the presence of limestone at shallow depths.
Anchoring of the pool	Not required	Structure weighing or anchoring using piles will be required to resist bouyancy uplift, if structure is partially below water level.	Structure weighing or anchoring using piles will be required to resist bouyancy uplift, if structure is partially below water level.
Others	Internal side-walls would either be embedded wall structure or gravity structure. Risk associated with embedded wall structure is potential for not achieving adequate penetration of the sea bed for wall stability; this can be mitigated by specific drilling investigation prior to design.	The presence of reef structure may present difficulty in installing anchor piles, in particular driving piles.	This Option would need construction of intake structures for seawater which present engineering challenges and likely considerable expense.



Appendix E Financial Assessment



Project: 301012-02598 TOC - Pool FS
 Title: Cost Estimate for Option 1 - North of Groyne Ocean Pool
 Rev: B

Date: 9-Jul-18

Item	Description	Unit	Qty	Rate	Total	Comments / Back-up Information
1	Design & Studies					
1.1	Geotechnical Desktop Review and Reporting	Item	1	\$ 10,000	\$ 10,000	TBA
1.2	Environmental and Coastal Social Studies	Item	1	\$ 100,000	\$ 100,000	TBA
1.3	Multi-disciplined Design (Structural, Coastal, Geotechnical, Electrical, Materials Specialists)	Item	1	\$ 392,600	\$ 392,600	Min 10% of Direct Costs
2	Preliminaries					
2.1	Including Mobilisation, Demobilisation, Insurances, Management Plans, temporary facilities etc	Item	1	\$ 906,100	\$ 906,100	Min 30% of Direct Costs
3	Revetment Extension (assumed 50yr design life)					
3.1	Supply and Installation of Core	CM	4143	\$ 100	\$ 414,300	Assumptions: 50m long end section on average of -3.5mCD seabed 80m long side section on average of -2mCD seabed crest level 4.3m double layer of 6-10T armour
3.2	Supply and Installation of Underlayer	CM	1522	\$ 100	\$ 152,200	
3.3	Supply and Installation of Rock Armor	CM	8382	\$ 100	\$ 838,200	
3.4	Supply and Installation of flushing culverts	EA	2	\$ 15,000	\$ 30,000	Assume two culverts for flushing (assume \$300/m and 100m total (50m x 2)
4	Gravity Walls (U-Shaped Plan Area) (assumed 50yr design life)					
4.1	Supply and Installation of Precast Caisson Wall	CM	332	\$ 2,965	\$ 984,492	Assume 29 precast RC units. Each unit 3m wide x 3m deep x 3m long precast caisson with 300mm thk walls Assumed \$1000 per cum of reinforced concrete for the fabrication of the caisson. Each caisson will weigh approximately 32 tonne. May need installation vessel with suitable crane. Assume vessel at \$75,000 per day and can install 4 per day (75,000 * 29/4)/332 *1.2 for weather allowance and transportation
4.2	Supply and Install - Insitu Concrete Fill or (Ballast)	CM	451	\$ 423	\$ 190,776	Assume 29 precast RC units. Each unit filled with a 2.7m x 2.7m x 2.7m cube Assume unreinforced concrete as caisson will provide "formwork" and concrete is required as ballast only. Cavity wall filling rate + pumping
5	Pool Platform Area, Access Steps and Ramps (assumed 25yr design life)					
5.1	Supply and Installation of insitu concrete platform surrounding pool	CM	52	\$ 900	\$ 47,003	Assume 3m wide x 0.2m thick x 87m long concrete pavement surrounding the pool Based on Rawlinson \$266 for 25MPa reinforced concrete slab + \$37.7 for 50MPa concrete + Say \$50/m3 for concrete pumping + formwork at \$17/m (x 1.5 for class 1 finish) + reinforcement mesh say RL 1118 galvinsed (29.9 + 13.75 per m2 x 1.15 for laps) +15% for sundry items such as finishing, waterstops, joints
5.2	Supply and Installation of blinding for concrete platform surrounding pool	CM	13	\$ 365	\$ 4,763	Assume 3m wide x 0.2m thick x 87m long concrete pavement surrounding the pool Based on Rawlinson \$315 for 50mm blinding + say \$50/m3 for pumping
5.3	Supply and Installation of insitu concrete platform along end revetment	CM	24	\$ 900	\$ 21,611	Assume 3m wide x 0.2m thick x 40m long concrete pavement surrounding the pool Based on Rawlinson \$266 for 25MPa reinforced concrete slab + \$37.7 for 50MPa concrete + Say \$50/m3 for concrete pumping + formwork at \$17/m (x 1.5 for class 1 finish) + reinforcement mesh say RL 1118 galvinsed (29.9 + 13.75 per m2 x 1.15 for laps)
5.4	Supply and Installation of blinding for concrete platform along end revetment	CM	6	\$ 365	\$ 2,190	Assume 3m wide x 0.2m thick x 40m long concrete pavement surrounding the pool Based on Rawlinson \$315 for 50mm blinding + say \$50/m3 for pumping

5.5	Supply and Installation of concrete ramps	CM	54	\$ 2,625	\$ 141,740	Assume 3m wide x 0.2m thick x 30m long ramp with low concrete side retaining walls below Based on Rawlinson \$311 for 25MPa reinforced concrete stairs + \$37.7 for 50MPa concrete + Say \$50/m3 for concrete pumping + formwork at \$17/m for slab (x 1.5 for class 1 finish), \$116/m2 for wall (+50% for class 1) + reinforcement mesh say RL 1118 galvinsed (29.9 + 13.75 per m2 x 1.15 for laps) for slab. Allow 100kg/m3 for walls at (\$2310 +\$1250 / tonne includes bar and galv)
5.6	Supply and Installation of blinding for concrete ramps	CM	14	\$ 365	\$ 4,928	Assume 3m wide x 0.2m thick x 60m long concrete ramp Based on Rawlinson \$315 for 50mm blinding + say \$50/m3 for pumping
5.7	Supply and Installation of insitu concrete steps down to pool platform area	CM	7	\$ 2,625	\$ 18,899	Assume 4m wide x 9m long x 0.2m steps reinforced concrete area (assume same rate as item 5.5)
5.8	Supply and Installation of blinding down to pool platform area	CM	2	\$ 365	\$ 657	Assume 4m wide x 9m long x 0.2m steps reinforced concrete area Based on Rawlison \$315 for 50mm blinding
6	Pool Infrastructure					
6.1	Swimming Lane Ropes	m	275	\$ 20	\$ 5,500	Allowance
6.2	Water Polo Goals	PS	1	\$ 5,000	\$ 5,000	
6.3	Lighting	PS	1	\$ 50,000	\$ 50,000	
6.4	Access Ladders	PS	1	\$ 5,000	\$ 5,000	
6.5	Signage	PS	1	\$ 3,000	\$ 3,000	
6.6	Shade Sails	PS	1	\$ 100,000	\$ 100,000	Allowance
7	Project Management & Site Supervision					
7.1	Project Management & Site Supervision	No	1	\$ 785,271.77	\$ 785,272	Assume 20% of construction cost
Total Direct Cost					\$ 5,214,231	
-	Design Growth Allowance	%	15	\$ 52,142.31	\$ 782,135	
-	Escalation	%	0	\$ 59,963.65	exc	
-	Contingency	%	25	\$ 59,963.65	\$ 1,499,091	
Total Indirect Cost					\$ 2,281,226	
Total Installed Cost					\$ 7,495,457	

Legend

LM Linear Metres
SM Square Metres
CM Cubic Metres
MT Metric Tonnes
EA Each

Exclusions

1. The scope of this estimate is the revetment extension, associated walkways, access ramps and stairs
2. Onshore infrastructure is excluded from this estimate

Project: 301012-02598 TOC - Pool FS
 Title: Cost Estimate for Option 2 - South of Groyne Ocean Pool
 Rev: B

Date: 9-Jul-18

Item	Description	Unit	Qty	Rate	Total	Comments / Back-up Information
1	Design & Studies					
1.1	Geotechnical Investigation and Reporting	Item	1	\$ 50,000	\$ 50,000	TBA
1.2	Environmental, Social and Coastal Studies	Item	1	\$ 100,000	\$ 100,000	TBA
1.3	Multi-disciplined Design (Structural, Coastal, Geotechnical, Mechanical and Electrical, Materials Specialists)	Item	1	\$ 449,800	\$ 449,800	Min 10% of Direct Costs
2	Preliminaries					
2.1	Including Mobilisation, Demobilisation, Insurances, Project Management, Management Plans etc	Item	1	\$ 1,038,000	\$ 1,038,000	Min 30% of Direct Costs
3	Vertical Seawall Precast T-Wall (assumed 50yr design life)					
3.1	Supply and install blinding layer	CM	15	\$ 365	\$ 5,293	Assume foundations along 2m x 145m base x 50mm blinding Based on Rawlinson \$315 for 50mm blinding + say \$50/m3 for pumping
3.1	Supply and Install - 100 no x Precast T-Walls	CM	326	\$ 1,500	\$ 489,375	Assume 100 no x 2.5m deep walls x 0.5m thick with 0.5m toe and 1m heel x 1.45m long
4	Earthworks					
4.1	Supply, Placement and Compaction of Fill	CM	4342	\$ 20	\$ 86,840	Assume 3100m ² reclamation area x 2.5m deep - 1310m ² x 2.4m adult pool - 220m ² x 1.2m kid
5	Insitu Reinforced Concrete Pool (assumed 50yr design life)					
5.1	Supply and install insitu 50m adult pool with 8 lanes including tiles	CM	670	\$ 2,500	\$ 1,674,800	Assume (2.0m deep walls +0.4m base) x 0.4m thick pool walls x 152m perimeter + 1310m ² x 0.4m thick base Based on Rawlinson \$1755000 for 50m x 21m x 2.5m deep (rate includes for pumps)
5.2	Supply and install blinding layer for 50m adult pool with 8 lanes	CM	66	\$ 365	\$ 23,908	Assume foundations along 2m x 145m base x 50mm blinding Based on Rawlinson \$315 for 50mm blinding + say \$50/m3 for pumping
5.3	Supply and install insitu 21m x 10.5 m kid pool including tiles	CM	94	\$ 2,500	\$ 235,875	Assume (1.2m deep walls +0.3m base) x 0.3m thick pool walls x 63m perimeter + 220m ² x 0.3m thick base Based on Rawlinson \$1755000 for 50m x 21m x 2.5m deep
5.4	Supply and install blinding layer for 50m kid pool	CM	11	\$ 365	\$ 4,015	Assume foundations along 2m x 145m base x 50mm blinding Based on Rawlinson \$315 for 50mm blinding + say \$50/m3 for pumping
6	Pavements & Fencing (assumed 25yr design life)					
6.1	Supply and place insitu concrete pavement	CM	314	\$ 900	\$ 282,741	Assume 200mm thick paved surface over 3100m ² reclamation area - 1310m ² adult pool - 220m ² kid pool Based on Rawlinson \$266 for 25MPa reinforced concrete stairs + \$37.7 for 50MPa concrete
6.2	Supply and Install Perimeter Safety Fencing	LM	145	\$ 144	\$ 20,808	Assume Safety fencing around 145m long edge of seawall Based on Rawlinson \$121 for pool fencing + \$22.5 for pre-painted fencing
7	Seawater Intake / Outfall (assumed 50yr design life)					
7.1	Seawater Intake Structure	EA	1	\$ 10,000	\$ 10,000	Assume 1 intake, including strainer
7.2	Seawater Outfall Structure	EA	1	\$ 5,000	\$ 5,000	Assume valve
7.3	Seawater Intake Piping	LM	10	\$ 300	\$ 3,000	Assume 10m intake
7.4	Seawater Outfall Piping	LM	-	\$ 300	\$ -	Assume no outfall
7.5	Pumping System	EA	1	\$ 55,000	\$ 55,000	Assume 2 pumps at \$25k + allowance for priming pump
8	Pool Infrastructure					
8.1	Swimming Lane Ropes	m	275	\$ 20	\$ 5,500	
8.2	Lighting	PS	1	\$ 50,000	\$ 50,000	
8.3	Services (power, water, etc)	PS	1	\$ 50,000	\$ 50,000	
8.4	Kiosk and Amenities Building	PS	1	\$ 300,000	\$ 300,000	Assume 100 m2 at \$3,000 / m2
8.5	Shade sails	PS	1	\$ 100,000	\$ 100,000	Allowance
8.6	Heating Pump and System	PS	1	\$ 50,000	\$ 50,000	Allowance

8.7	Access Ladders	PS	1	\$ 5,000	\$ 5,000	
8.8	Signage	PS	1	\$ 3,000	\$ 3,000	
9	Project Management & Site Supervision					
9.1	Project Management & Site Supervision	No	1	\$ 899,630.76	\$ 899,631	Assume 20% of construction cost
Total Direct Cost					\$ 5,997,585	
-	Design Growth Allowance	%	15		\$ 899,638	
-	Escalation	%	0		exc	
-	Contingency	%	25		\$ 1,724,306	
Total Indirect Cost					\$ 2,623,943	
Total Installed Cost					\$ 8,621,528	

Legend

LM Linear Metres
SM Square Metres
CM Cubic Metres
MT Metric Tonnes
EA Each

Exclusions

1. The scope of this estimate is the proposed pools and associated seawalls

Project: 301012-02598 TOC - Pool FS
 Title: Cost Estimate for Option 3 - Land-based Saltwater Pool
 Rev: B

Date: 9-Jul-18

Item	Description	Unit	Qty	Rate	Total	Comments / Back-up Information
1	Design & Studies					
1.1	Geotechnical Surveys and Reporting	Item	1	\$ 25,000	\$ 25,000	TBA
1.2	Environmental, Social, Coastal, Hydrological Studies	Item	1	\$ 50,000	\$ 50,000	TBA
1.3	Multi-disciplined Design (Structural, Coastal, Geotechnical, Mechanical and Electrical, Materials Specialists)	Item	1	\$ 546,700	\$ 546,700	Min 10% of Direct Costs
2	Preliminaries					
2.1	Including Mobilisation, Demobilisation, Insurances, Project Management, Management Plans etc	Item	1	\$ 1,261,700	\$ 1,261,700	Min 30% of Direct Costs
3	Earthworks					
3.1	Excavation	CM	4370	\$ 20.00	\$ 87,400	Assumed excavation of 50% of 76m x 46m area x 2.5m height pool area
3.2	Ground preparation (all pools)	SM	1589	\$ 3.45	\$ 5,482	Based on "base" areas listed below: 864m ² , 500m ² , 225m ²
4	Insitu Reinforced Concrete Pool (assumed 50yr design life)					
4.1	Supply and install insitu Water Polo Pool (32m x 27m pool) including tiles	CM	526	\$ 2,500	\$ 1,316,000	Assume (2.0m deep walls) x 0.4m thick pool walls x 118m perimeter + 864m ² x 0.5m thick base Based on Rawlison \$1755000 for 50m x 21m x 2.5m deep
4.2	Supply and install insitu Lap Pool (50m x 10m pool) and including tiles	CM	346	\$ 2,500	\$ 865,000	Assume (2.0m deep walls) x 0.4m thick pool walls x 120m perimeter + 500m ² x 0.5m thick base Based on Rawlison \$1755000 for 50m x 21m x 2.5m deep
4.3	Supply and install insitu Settling Pool (15m x 15m pool) and including tiles	CM	112	\$ 2,500	\$ 279,000	Assume (1.2m deep walls) x 0.3m thick pool walls x 60m perimeter + 225m ² x 0.4m thick base Based on Rawlison \$1755000 for 50m x 21m x 2.5m deep
5	Vertical Seawall Precast T-Wall (assumed 50yr design life)					
5.1	Prepare foundations	SM	330	\$ 3.45	\$ 1,139	Assume foundations along 2m x 165m base
5.2	Supply and Install - 100 no x Precast T-Walls	CM	371	\$ 1,500	\$ 556,875	Assume 100 no x 2.5m deep walls x 0.5m thick with 0.5m toe and 1m heel x 1.65m long
6	Pavements & Fencing (assumed 25yr design life)					
6.1	Supply and place insitu concrete pavement	CM	381	\$ 900	\$ 343,432	Assumed 200mm thick pavement over 76m x 46m - 864m ² - 500m ² - 225m ²
6.2	Supply and Install Perimeter Safety Fencing - Water Polo Pool (32m x 27m pool)	LM	118	\$ 144	\$ 16,933	Assume Safety fencing around 32m x 27m pool Based on Rawlison \$121 for pool fencing + \$22.5 for pre-painted fencing
6.3	Supply and Install Perimeter Safety Fencing - Lap Pool (50m x 10m pool)	LM	120	\$ 144	\$ 17,220	Assume Safety fencing around 50m x 10m pool Based on Rawlison \$121 for pool fencing + \$22.5 for pre-painted fencing
6.4	Supply and Install Perimeter Safety Fencing - Settling Pool (15m x 15m pool)	LM	60	\$ 144	\$ 8,610	Assume Safety fencing around 15m x 15m pool Based on Rawlison \$121 for pool fencing + \$22.5 for pre-painted fencing
7	Seawater Intake / Outfall (assumed 50yr design life)					
7.1	Seawater Intake Structure	EA	1	\$ 10,000	\$ 10,000	Assume 1 intake, including strainer
7.2	Seawater Outfall Structure	EA	1	\$ 10,000	\$ 10,000	Assume 1 Outfall
7.3	Seawater Intake Piping	LM	100	\$ 300	\$ 30,000	Assume intake point can be located with 100 metres
7.4	Seawater Outfall Piping	LM	100	\$ 300	\$ 30,000	Assume outfall point can be located with 100 metres
7.5	Pumping System	EA	1	\$ 55,000	\$ 55,000	Assume 2 pumps at \$25k + allowance for priming pump
8	Pool Infrastructure					
8.1	Elevated Walkways	PS	1	\$ 100,000	\$ 100,000	
8.2	Landscaped Promenade	PS	1	\$ 100,000	\$ 100,000	Allowance
8.3	Swimming Lane Ropes	m	275	\$ 20	\$ 5,500	Swimming Lane Ropes
8.4	Lighting	PS	1	\$ 50,000	\$ 50,000	Lighting
8.5	Services (power, water, etc)	PS	1	\$ 50,000	\$ 50,000	Services (power, water, etc)
8.6	Amenities Building	PS	1	\$ 210,000	\$ 210,000	Assume 70 m ² at \$3,000 / m ²
8.7	Heating Pump and System	PS	1	\$ 50,000	\$ 50,000	Allowance
8.8	Access Ladders	PS	1	\$ 5,000	\$ 5,000	
8.9	Signage	PS	1	\$ 3,000	\$ 3,000	

9	Project Management & Site Supervision					
9.1	Project Management & Site Supervision	No	1	\$ 1,093,458	\$ 1,093,458	Assume 20% of construction cost
				Total Direct Cost	\$ 7,182,448	
-	Design Growth Allowance	%	15		\$ 1,077,367	
-	Escalation	%	0		exc	
-	Contingency	%	25		\$ 2,064,954	
				Total Indirect Cost	\$ 3,142,321	
				Total Installed Cost	\$ 10,324,769	

Legend

LM Linear Metres
SM Square Metres
CM Cubic Metres
MT Metric Tonnes
EA Each

Exclusions

1. The scope of this estimate is only the 3 proposed pools near Eric street.

Project: 301012-02598 TOC - Pool FS
 Title: Operational Cost Estimate for Option 1 - North of Groyne Ocean Pool
 Rev: A

Date: 9-Jul-18

Item	Description	Unit	Qty	Rate	Total	Comments / Back-up Information
1	Operational costs					
1.1	Staff (cleaning)	EA	2	\$ 14,000	\$ 28,000	assume 2 staff 1 day weekly, based on salary of \$70,000 per year
1.2	Repairs & Maintenance	EA	1	\$ 23,000	\$ 23,000	assume 30% of option 2 as pool basin does not need maintainance
1.3			1		\$ -	
2	Management					
2.1	Management of pool cleaning and maintenance	EA	1	\$ 16,000	\$ 16,000	assume staff for 1 day per week (20% @ 80,000 per year)
3	Dredging/Cleaning	excl				
3.1					\$ -	assume no sediment will ingress into pool and depth will be maintained
3.2					\$ -	
3.3					\$ -	
3.4			2		\$ -	
Total Direct Cost					\$ 67,000	
-	Escalation	%	0		excl	
-	Contingency	%	25		\$ 16,750	
Total Indirect Cost					\$ 16,750	
Total Yearly Cost					\$ 83,750	

Legend

LM Linear Metres
 SM Square Metres
 CM Cubic Metres
 MT Metric Tonnes
 EA Each

Exclusions

1. The scope of this estimate is the yearly maintenance costs of pool maintenance
2. Onshore infrastructure is excluded from this estimate
3. Heating is excluded from the estimate due to large uncertainties in regards to cost
4. Deepening of the pool in case of sedimentation is excluded from the estimate

Project: 301012-02598 TOC - Pool FS
 Title: Operational Cost Estimate for Option 2 - South of Groyne Ocean Pool
 Rev: A

Date: 9-Jul-18

Item	Description	Unit	Qty	Rate	Total	Comments / Back-up Information
1	Operational costs					
1.1	Staff (Cleaning)	EA	3	\$ 14,000	\$ 42,000	Same as option 3
1.2	Repairs & Maintenance (including pumps)	EA	1	\$ 115,000	\$ 115,000	Same as option 3
1.3					\$ -	
2	Management					
2.1	Management of pool cleaning and maintenance	EA	1	\$ 16,000	\$ 16,000	assume staff for 1 day per week (20% @ 80,000 per year)
3						
3.1					\$ -	
3.1					\$ -	
4						
4.1					\$ -	
Total Direct Cost					\$ 173,000	
-	Escalation	%	0		exc	
-	Contingency	%	25		\$ 43,250	
Total Indirect Cost					\$ 43,250	
Total Yearly Cost					\$ 216,250	

Legend

LM Linear Metres
 SM Square Metres
 CM Cubic Metres
 MT Metric Tonnes
 EA Each

Exclusions

1. The scope of this estimate is the yearly maintenance costs of pool maintenance
2. The proposed associated infrastructure is excluded from this estimate
3. Heating is excluded from the estimate due to large uncertainties in regards to cost

Project: 301012-02598 TOC - Pool FS
 Title: Operational Cost Estimate for Option 3 - Land-based Saltwater Pool
 Rev: A

Date: 9-Jul-18

Item	Description	Unit	Qty	Rate	Total	Comments / Back-up Information
1	Operational costs					
1.1	Staff (Cleaning/Lifeguards)	EA	1	\$ 215,000	\$ 215,000	based on average cost of Bondi/Wollongong seawater pools, assume breakup 35% repairs & maintenance, 65% cleaning. (based on Bondi Icebergs financials 2012-2017) assume lifeguard staff also does cleaning. corresponds with 3 staff fulltime at approx. \$70,000 per year
1.2	Repairs & Maintenance (including pumps)	EA	1	\$ 115,000	\$ 115,000	
1.3					\$ -	
2	Management					
2.1	Management of pool cleaning and maintenance	EA	1	\$ 16,000	\$ 16,000	assume staff for 1 day per week (20% @ 80,000 per year) for Pool operations above only. management of the full proposed development is excluded.
3						
3.1					\$ -	
3.2					\$ -	
4						
4.1					\$ -	
Total Direct Cost					\$ 346,000	
-	Escalation	%	0		exc	
-	Contingency	%	25		\$ 86,500	
Total Indirect Cost					\$ 86,500	
Total Yearly Cost					\$ 432,500	

Legend

LM Linear Metres
 SM Square Metres
 CM Cubic Metres
 MT Metric Tonnes
 EA Each

Exclusions

1. The scope of this estimate is only for 3 proposed pools near Eric street.
2. This excludes the associated proposed Development of the Eric Street Precinct (paving areas, seawalls, paving, elevated)
3. Heating is excluded from the estimate due to large uncertainties in regards to cost

Project: 301012-02598 TOC - Pool FS
Title: Whole of Life Cost for Option 2 - South of Groyne Ocean Pool
Rev: B

Date: 5/07/2018

Item	Description	Unit	Qty	Total AUD	Total AUD Year 1	Total AUD Year 2	Total AUD Year 3	Total AUD Year 4	Total AUD Year 5	Total AUD Year 6	Total AUD Year 7	Total AUD Year 8	Total AUD Year 9
1	Capital Cost												
1.0	Capital Cost	LOT	1	\$ 8,621,528									
2	Operating Cost												
2.1	Average Annual Operating Cost	AUD/yr		\$ 10,812,500	\$ 216,250	\$ 216,250	\$ 216,250	\$ 216,250	\$ 216,250	\$ 216,250	\$ 216,250	\$ 216,250	\$ 216,250
3	Other Whole Life Cost Items												
3.1	Pump servicing/maintenance (included in Operating Cost)			\$ -									
3.2	Pump Replacement (50,000 every 10 years)	AUD/10 yr		\$ 200,000									
3.3	Concrete minor repairs (included in Operating Cost)			\$ -									
3.4	Major concrete remediation (Assume 500,000 after 25 year design life)	LOT		\$ 500,000									
3.5	Intake Strainer cleaning (allow 1 time per year for diver @ 2,000)	AUD/yr		\$ 100,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000
3.6	Power and Water running costs (included in Operating Cost)			\$ -									
3.7	Abandonment cost (allowance % of Capital Cost)	%	30	\$ 2,586,458									
				\$ 22,820,486									
-	Escalation	%	0	excl									
-	Contingency (Included for Capital Cost and Operating Cost - only applied to item 3)	%	25	\$ 846,614.59									
				\$ 846,615									
				\$ 23,667,101									

Legend

LM Linear Metres
 SM Square Metres
 CM Cubic Metres
 MT Metric Tonnes
 EA Each

Exclusions

1. The scope of this estimate is the yearly maintenance costs of pool maintenance
2. The proposed associated infrastructure is excluded from this estimate
3. Heating is excluded from the estimate due to large uncertainties in regards to cost

Project: 301012-02598 TOC - Pool FS
Title: Whole of Life Cost for Option 3 - Land-based Saltwater Pool
Rev: B

Date: 5/07/2018

Item	Description	Unit	Qty	Total AUD	Total AUD Year 1	Total AUD Year 2	Total AUD Year 3	Total AUD Year 4	Total AUD Year 5	Total AUD Year 6	Total AUD Year 7	Total AUD Year 8	Total AUD Year 9
1	Capital Cost												
1.0	Capital Cost	LOT	1	\$ 10,324,769									
2	Operating Cost												
2.1	Average Annual Operating Cost	AUD/yr		\$ 21,625,000	\$ 432,500	\$ 432,500	\$ 432,500	\$ 432,500	\$ 432,500	\$ 432,500	\$ 432,500	\$ 432,500	\$ 432,500
3	Other Whole Life Cost Items												
3.1	Pump servicing/maintenance (included in Operating Cost)			\$ -									
3.2	Pump Replacement (50,000 every 10 years)	AUD/10 yr		\$ 200,000									
3.3	Concrete minor repairs (included in Operating Cost)			\$ -									
3.4	Major concrete remediation (Assume 500,000 after 25 year design life)	LOT		\$ 500,000									
3.5	Intake Strainer cleaning (allow 1 time per year for diver @ 2,000)	AUD/yr		\$ 100,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000
3.6	Power and Water running costs (included in Operating Cost)			\$ -									
3.7	Abandonment cost (allowance % of Capital Cost)	%	30	\$ 3,097,431									
				\$ 35,847,200									
-	Escalation	%	0	excl									
-	Contingency (Included for Capital Cost and Operating Cost - only applied to item 3)	%	25	\$ 974,358									
				\$ 974,358									
				\$ 36,821,558									

Legend

LM Linear Metres
 SM Square Metres
 CM Cubic Metres
 MT Metric Tonnes
 EA Each

Exclusions

1. The scope of this estimate is only for 3 proposed pools near Eric street.
2. This excludes the associated proposed Development of the Eric Street Precinct (paving areas, seawalls, paving, elevated)
3. Heating is excluded from the estimate due to large uncertainties in regards to cost



Advisian

WorleyParsons Group

Appendix F Info on Geothermal Heating



BACKGROUND INFORMATION ON GEOTHERMAL HEATING OF POOLS IN PERTH

Geothermal water supplies can be used for heating of pools either directly or via a ground-source heat pump (GSHP) depending on their temperatures:

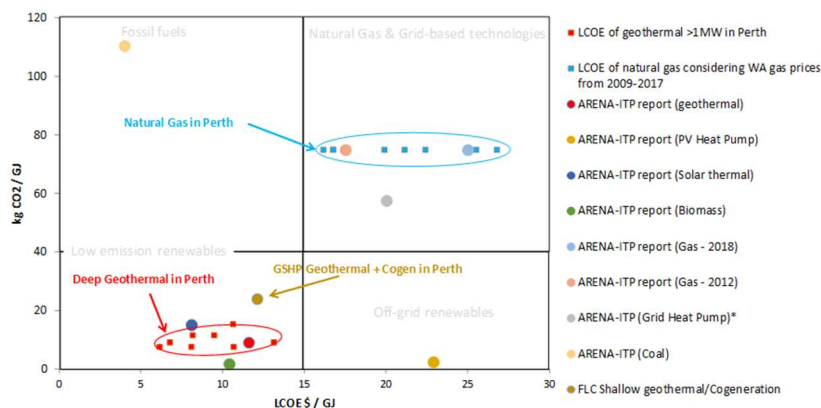
- Geothermal water supplies with a temperature > 35°C can be used directly after circulation through plate heat-exchangers. This is referred as direct-use geothermal;
- Geothermal water supplies with a temperature < 35°C can be used for heating and/or cooling purposes in combination with a ground-source heat pump (GSHP). This is referred as shallow GSHP.

Over the last few years geothermal has become the preferred technology for heating modern leisure centers: 14 leisure centres are using direct-use geothermal for heating pools in WA (the majority located in Perth) while four leisure centres use shallow GSHP (Busselton, Kalgoorlie, Geraldton and Fremantle) where geothermal heated groundwater supplies are absent or not cost effective to develop.

Direct-use geothermal projects target the Yarragadee aquifer, which occurs from about 500 m depth at Cottesloe. There are several geothermal projects operating in the vicinity of Cottesloe including Christ Church Grammar School (operating since 2001), Claremont Pool (operating since 2004) and St Hilda's School (operating since 2009). Available data from these projects suggest that the hydrostratigraphy underneath Cottesloe is conducive to a geothermal project. This may be refined in a detailed feasibility study at a later stage prior to preparing tender documentation for drilling of the bores.

Geothermal direct-use projects have a very attractive life-cycle costs (CAPEX + OPEX + Maintenance), ranging from \$6 to \$13/GJ, significantly less than the likely life-cycle costs for competing technologies such as gas-fired boilers, which range from \$16 to \$26/GJ, depending on future gas-price scenarios. Furthermore, direct-use geothermal CO₂ emissions are low, ranging from 8 to 15 kg CO₂/GJ, while natural gas and grid-based technologies have emissions in excess of 75 kg CO₂/GJ.

Perth's major aquatic leisure centres have heat loads of 0.5–2.5 MW. A Cottesloe pool facility would likely have a heat load within this range.



M Pujol
Senior Hydrogeologist
Rockwater Pty Ltd





Advisian

WorleyParsons Group

Appendix G Community Consultation Feedback



Do you want a pool?	Preferences			Reasons for preferences	Any Additional Comments
	1. North of the Groyne	2. South of the Groyne	3. Eric St		
No				This Pool proposal will destroy Cottesloe All proposals are a destruction to the environment in Cottesloe	Most people pushing for this are not Cottesloe residents The bumper boats on Cottesloe Beach in the 1930-40s was an environmental disaster. The wading pool had to be pulled out as it filled with sand all the time
Yes	2	3	1	Cottesloe needs a revamp and this will make the area more appealing to swimmers again	
Yes	2	3	1	No cost to the Town of Cottesloe. Closer to main future parking station. Better infrastructure around it. Proper size 50 m Swimming Pool Water Polo is a bonus Dune Top Walk adds to the North Cottesloe 'node' Spreads beachfront use to the North Improves entry point to Cottesloe No impact on the reef ecosystem No Heritage issues Considerable Stakeholder acceptance from nearby Businesses and Community of swimmers Run by an Incorporated Community Organisation to be founded to run this pool.	Because their are multiple user groups for the mix of Pools the attraction of funding is a lot wider bringing in the Federal Govt through Water Polo WA via the Sports Commission. This also greatly assists the Financial Viability of the project. There are fundamental Planning benefits to the North Cottesloe node making it more attractive for residents and Visitors. A salt water pool with what would appear as an infinity edge will be a great swimming experience at all times of day. It works to bring the young back to the salt ater , provide for our elderly and handicapped and a large array of Schools and Community and Sporting groups to recreate in the main entrance point to Cottesloe. Personally i cant wait for Water Polo by the Sea to be played at North Cottesloe.
Yes	2	1	3	The current beach and ocean between Indiana and the groyne is attractive, practical and well utilized by beach-goers and surfers (in winter) An Option one style pool, although relatively cheap, would detract from the visual appeal and practical space available, even if it is actually self flushing and does not impact the surf break as suggested by the preliminary computer simulations. (Somewhere else?) Option two, even though it has greater environmental/heritage implications, does not impact the existing beach, would still give a "ocean experience", and would be easily accessible to users of all abilities. Option 3 no doubt has a business case as a commercial operation but is just another swimming pool, not an ocean pool.	I think that the SCOPE of the brief given to the consultants for such a high level study is much too limited. The scope should include (1) Consideration of likely sea level rise. This will have a major impact on the feasibility of all three proposals. (Particularly 3) (2) Consideration of a form of netted enclosure. A practical and possibly cheaper way to get people swimming in the ocean again may be a hybrid structure with netting, not necessarily at any of these three locations. Technology has moved on from the days of the Pylon. (3) Change rooms should be considered early in this process
Yes	3	1	2	Option 2 has the lowest impact while making use of an area not currently well utilised.	
Yes	2	1	3	le south of Cottesloe groin as it would blend in with the current rock formation and blend into the current wakkways. This is also the main tourist area so it would attract the most visitor UK bterwst. In saying that if you wanted to deter from tourism then option 3 which is at the end of Eric st... Reasons for not having north of current Cottesloe groins the current beach environment would be destroyed	For normal beach swimmers wanting a protected ocean swim the current Cottesloe beach is great plus the other beaches still offering excellent beaches up to swanbourne
Yes			1	Option 3 (North Cott, Eric St pool), has the backing of private donors so will not need rate payer funding.	All other options too expensive and will not pay their way.
Yes	1	2	3	I prefer an ocean pool constructed on either side of the Cottesloe Groyne similar to the many ocean pools on the NSW coastline where I have enjoyed swimming on many occasions.	Yes we do need an ocean pool and hopefully in my lifetime.
No	2	3	1	Land based pools are safer than the open water. They can be used 24/7 all year round. Various events could be held at the pool. There is room for more parking and change rooms around Eric Street.	I would love a pool at Cottesloe. However I doubt if it will happen in my life time
Yes	1	2	3	I believe an ocean "rock" pool inside (north) the groyne with swimming and water polo facilities is the most suitable option for the majority of the public.	
Yes	2	1	3	The area south of the groyne is largely un-usable at present and appears ideal for a pool.	
No					A pool can be built anywhere, additional shoreline cannot!! The beaches are heavily visited now and there are existing conflicts over use. It doesn't make sense to add more pressure with a facility that is not dependent on a beachfront location. Nothing should be constructed that further restricts access or reduces the shoreline area available for current beach and ocean activities. Council hasn't fulfilled previous commitments to beach upgrades citing budget limitations. What is the source of funding for this??
No			1	Option 1 on the North Side of the groyne visually destroys Perth's most iconic beach and is hugely detrimental to current users of this area, particularly all surf craft users, while also being completely untested and therefore carrying by far the most risk. Option 2 is a proven model that is in a "discrete location", this is a positive not a negative. Option 3 is the least environmentally sensitive and lowest risk.	I fear this process is flawed from the outset as there are better locations that could have been considered, however these have already been excluded as they are now outside of the scope of this study. Yet others at the work shop were quick to point out the area west of the tennis club or the Beach Street groyne which are both superior to the land and beach options put forward.
Yes	1	2	3	Option 1 provides protection from the strong south-west winds and currents. Even in winter, the pool could be used. Option 2 is too exposed to the prevailing winds and affects the reef and ecosystem. Not as safe for kids and option 1. Option 3 is disconnected from the beach, too exposed and more expensive to maintain - pumping salt water up from the ocean and evaporation. Also, quite exposed to the prevailing winds and too close to the roads and picnic area.	
No				My objections in no particular order. 1 a. CHARACTER. Cottesloe beach is unique and well-known for its natural, low-key character. A commercial pool with all its associated 'facilities' would spoil the character of the whole area. 1 b. SUBURBAN POOLS are a positive for residents. Cottesloe is part-owner of the Claremont pool that along with Fremantle pool, caters for swimming training, competition, water-polo etc There is no need to spoil the beach with an artificial, man-made pool. 2. POLICY. Cottesloe policy prohibits any further development on the west side of Marine Parade. It was instigated during a former period when the area was under siege from developers and the community attended several public meetings in the hundreds, to demand no further development. 3 a. ENVIRONMENT. A pool south of the groyne would necessitate the destruction of the reef and the dunes and is environmentally unacceptable. It is a sacred site and a fish habitat and should not be countenanced. 3 b. ENVIRONMENT. A pool on the cnr Eric and Marine Pde would be destructive to the sand dunes and the beach area would be reduced and overcrowded. Beach erosion is a problem and this pool would make it worse. 3 c. ENVIRONMENT. A pool north of the groyne would carve up and spoil Cott Main beach and ruin winter surfing forever. The proposal has been compared to Sydney pools but the topography, climate and ocean activity have no relevance to Sydney.	4 a. COST. The initial expense for all of the options would be prohibitive and unacceptable for the residents of such a small town. It is not the City of Stirling. 4 b. ONGOING COST. Ongoing costs for maintenance and security would be prohibitive 4 5. PARKING. Cottesloe beach has a permanent summer parking problem. These proposals offer no traffic facilities for pool-users and the traffic and parking problems would adversely impact on the residents and ratepayers of Cottesloe.
Yes	1	2	3	Option 1 is a real ocean pool that does not require sea water to be pumped into it as required in the case of Option 2. Option 3 is not an ocean pool so can really be built anywhere - it does not have to located on the foreshore.	An ocean pool would be a wonderful way for people to enjoy swimming in the 'ocean' without the dangers of sharks, rips and dumping waves. Any facility that helps people get fit and healthy in an enjoyable, safe setting is a great asset for our community. So in terms of my preferences for Options 1, 2 or 3, my priority is for an ocean pool to be built and it's location for me is secondary. On that I am happy to be guided by the experts. thank you for the well run workshop 19 August and for allowing me to participate.
No	3	1	2	Groyne north pool likely to fill with sand, and takes up too much beach swimming area. Eric St not an ocean pool.	
Yes	1	3	2	Less \$ burden on rate payers and lower environmental impact..	Why must the pool be so oblong. It would be nice if rocks wound round in a curve, Can we get the toilets under Indiana back and turn the prime space into a ratepayers recreation centre? Toilets should be located at the sides of the Indiana building(3 unisex cubicles on each side and one disabled and mothers room.....minimal in size and cleaning requirements. Showers should be just outdoors with cute colourful change cabanas / cubical located nearby. Wash basins should be lactated outside toilet cubicles and open to view.
Yes	2	1	3	No. Doesn't occupy beach area. Less likely to be damaged by storm damage	
Yes					
Yes			1	The South of groyne option is the only true ocean pool, like those in NSW. I do not want the other options to be built. North of the groyne risks irreversible damage to the beautiful environs of Cottesloe Beach. The Eric Street option is just a swimming pool. If such a pool is required, build it away from an already congested area.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No				If I had to make a preference, it would be for a land based pool because it doesn't interfere with the beach. Option 3 in the July 19th presentation Option 1 in this online survey	Why have you changed the order of options in the presentation and the online survey? That's confusing. I would seriously appreciate an answer to my question if you don't mind! From the presentation, which I attended Option one: An ocean pool north of the groyne (which you present as Option 2 in the survey?) I strongly agree with two people who spoke at the July 19th meeting: a) a famous, iconic WA beach, part of our cultural heritage: Leave it alone! Go somewhere else if you want a salt water pool b) it would wipe out (excuse the pun) hundreds of dedicated surfers who have used this areas for decades: an significant, local group whose interests have not been given enough recognition Option 2: (Or option 3 in this survey) - an ocean pool south of the pool: Too much conservation damage Option 3: (Or Option 1 in this survey) As noted at the meeting, this is really a different ball game in terms of 'concerns' because it doesn't involve interference with the existing beach and ocean. For this reason, if popular demand necessitated action I would chose option 3 (or option 1 of this survey). DEMOGRAPHICS I talked to the councillor of the Cottesloe south Ward who did a door knock survey in her area: she concluded that the main push for a pool is from: a) newer residents with young families b) residents from over east who had experience of ocean pools over there SHARK FATALITIES I believe there are alternative ways to deal with the rise of shark fatalities other than building ocean pools. If the ocean pools are a response to fear of shark attacks, then I would prefer further research on shark protection other than the building of ocean pools.
Yes	1	2	3	A salt water swimming pool as part of the ocean but protected is the best idea.	
Yes	2	3	1	3 - Least impact on prime Cottesloe beach. 1 - Cheap and reversible if it didn't work. 2 - Takes out reef that should be maintained.	I think you have to take into account all the non-Cottesloe residents(from Perth/elsewhere) that utilise the current main beach, which is why I favour stretching up to North Cottesloe.
Yes	1	3	2	The south of the groyne is culturally (indigenous) sensitive so I think a pool on the north of the groyne would be best. Benefits I believe are- Swimmers can enjoy the beach safely Bring the community together Tourism- Physical and mental health benefits	
No				I have absolutely no preference. I totally disagree with the idea. none of those 3 suggestions are sensible in terms of location.	The first option totally destroys The Groyne as all west Australians know it.This should NEVER be allowed. The second option destroys part of the protected reef habitat and encroaches on the sensitive rock area. It is also hugely exposed to the elements, particularly in winter. The third option is not an ocean pool, but a salt pool at street level. The location of this is totally ridiculous and destroys established dune areas. Parking for all 3 would increase the already congested parking issue. All 3 plans are in central Cottesloe, thereby increasing traffic issues. The cost of all 3, though not mentioned at Thursdays meeting would be huge and of no benefit to Cott ratepayers. The information we were given by the consulting company was scant and answered very few of the questions from the audience. I do not believe any more money should be spent on this idea.
Yes	1		2	Option 2 will effect the surf break on the south side of the groyne. As a surfer I strongly disagree with this idea and I'm sure all of the surfing community would be against this proposal. Option 1 - At Cottesloe beach would have more access to people as there is more parking in that area, compared with North Cott. Thanks	
Yes	1	2	3	South of the groyne is culturally sensitive North of the groyne is the perfect spot The third option defeats the purpose of an ocean pool.	This just has to be done for so many reasons. Safety (sharks) Health benefits (mental and physical) Community benefits (bringing the community together) Tourism (like icebergs in Sydney- an iconic fewtueie on the landscape of Cottesloe beach)
Yes				I dont think you can rank or make a decision on the pools presented without any information or consideration of- heritage issues- environmental issues - finances - including how much they will all cost to design and build as well as how much they will cost to run - whether any of them can generate revenue to offset cost - change room and toilet facilities - purpose and use concept. Will there be a lifeguard in attendance? - other potentially suitable locations that have less constraints on access/heritage/environment. No one would be making an informed decision otherwise.	The current feasibility study seems to be the cart before the horse in many respects. Time and consideration needs to be spent on the broader issues. Eg: Could you really design a pool at option two and spend further money on that only to discover that there is significant aboriginal heritage and you cannot proceed? What about further down south towards Mosman Park? Why hasn't that been considered for spreading out the crowds and parking, etc. I appreciate the meeting and the opportunity to hear more but he poor consultants were given a very small and incomplete brief and then expected to respond to questions regarding the entire concept and process. The council should have had a rep there answering the questions outside of their limited scope. Have the council really not considered budget?? found it to be a waste of time in terms of learning additional information.
Yes	2	1		South of groyne is preferred as it is in a natural setting and does not interfere with the main swimming beach. The natural sea water also appeals for the quality and experience of the water and long term running cost saving.	Allow a small cafe on the groyne overlooking the pool
Yes	1	3	2		
Yes	2	3	1	In addition to the pros and cons in the Advisian report my reasons are: Option 1 - this is a popular swimming area in summer and board riding area for the rest of the year. It already fulfills a public need which would be restricted if the pool was built on this site. Option 2 - This is a well used fishing site. Building the pool here would not allow the groyne to be used for a fishing platform. The perimeter of the pool may provide a platform but this would have to be designed for at extra cost. The area south of the groyne is relatively undisturbed and supports a range of sea life - sea urchin, crayfish, echinoderms, anemone, sea weeds etc and it would be of benefit to leave it as is. Both Option 1 and 2 would have unpredictable effects on the movement of sand and on the nearby marina environment. Every development west of Marine parade including the groyne, have had effects that were not anticipated. Access may be difficult even in moderate swells and wind conditions. Option 3 - being land based this option would not disturb the marine environment but may effect the distribution of sand. It would be easy to access in any weather. It may be more expensive to maintain and therefore more expensive to use.	The ocean pools of Bondi and Bronte take advantage of the natural coastal features (inlets, promontories) which lend themselves to an ocean pool construction. These allow simplicity of design where wave/tidal action fill and flush the pool with reduced need for pumps or filters. The cost of entry to these pools is about \$7 - similar to the cost of entry to the conventional Scarborough Pool. The only site along the Cottesloe coast which in any way equates to the east coast pool sites is at the foot of Grant street where an extended limestone platform allows for a stable dune and a natural gutter exists which may be exploited in the construction of the pool. It would appear that at this site wave and tide action could be exploited in flushing the pool and giving as close an experience to being in the ocean. I believe Options 1 -3 were chosen because they represent the interest of various local entities not because they are the ideal choices resulting from a survey of what is available along the Cottesloe coast. Such an independent survey should be instigated and it would surely result in the best site, both from an ocean experience and economic perspective and also ensure that its quality will retain peoples' interest for many years to come
Yes	3	1	2	As a local resident, surfer, surf club member (North Cottesloe) and Architect by trade, I feel that options 2 and 3 hold equal merit and development opportunity for the city of Cottesloe, and option 1 is something that should be abandoned entirely. Option 1 and its points about being sheltered and the most economically viable I disagree with, I encourage planners to actually go to Cottesloe on a rough day (like we have experienced this past weekend 22/23rd July) The South Corner is just as protected if not more so than the inside of the north groin. The toilets and public facilities have been a point of contention for the last 10 years, and are in need of a complete overhaul. With option 2 and 3 providing this, with an expanded look at the design, the area, and the interaction of the whole 1 kilometre of coast between North Cottesloe and Cottesloe Beach. This development should be approached like Scarborough, and focus on the bigger picture, with boardwalks, kiosks, seating, parks, public facilities (good W/C) not just be a small project to create an ocean pool. The inside of the North Corner at Cottesloe in summer is already like a pool, with kids and families making this the spot they go too. Why encroach on the Pylon, making the beach area smaller (when it is already very small) why not expand what Cottesloe has to offer by going for option 2 or 3. I think the scope of option 2 could be expanded to incorporate more facilities, like option 3. Right now option 3 has the design elements of a holistic project, and that the designer has considered the higher volumes of people to the area, interaction with the existing landscape/amenities, beaches and how the space would actually work. This level of thought needs to go into the others to create the best project possible.	
Yes	1	2	3	No 1 is less intrusive on the beach environment. And probably is the least expensive option. Others : 2 is at least a sea water pool. 3 would appear to be just a pool. Could be anywhere.	
Yes	2	1	3	An ocean pool is an ocean pool. pool 3 is not an ocean pool. It is a normal swimming pool next to a beach. Pool 1 is too enclosed. Pool 3 is a true ocean pool allowing wind and sea spray to enter the pool. An ocean pool should not be so regulated. True users of an ocean pool don't care for all the facilities and those that want that experience need to feel that experience.	
Yes	2	3	1	I would like to see option 3 as it provides a safe swimming environment for all, and has more lanes and can accommodate people in the busier times.	
Yes	1	2	3	The ocean pool as close as possible to the centre of Cottesloe would provide a better place for locals such as myself to enjoy the beach without the presence of sharks/waves but still be in close contact with the water. I believe the land pool would detract from that.	Please try to put a pool in it would be such an amazing addition to Cottesloe and the community!

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	1	3	I feel the area south of the groin will be a true ocean pool without the potential problems of waves, swell seaweed etc Eric st proposal just another suburban pool	South of groin proposal could be tied to a world class restaurant site above cott surf club on the hill As a long time cott resident I fully support and encourage this development
Yes		1		I want a sea water pool as close to sea-level possible. So that rules out the one further north. The current cottesloe beach in front of Indiana teahouse to the existing groin is iconic and should not be modified so that rules out the north of Groyne option. South of Groyne is little utilised and would open this area up to more people. Impact on surfers would be minimal. A pool at sea level on the south side of the Groyne is by far the best option.	The other option is to build it further south (on the north side of the existing southern groyne down the southern end off cott. That Groyne just collects seaweed and is hardly utilised at all. It's also a closer walk groomsman park station than the walk fro Cott station to Cott is. Combined with redevelopment of the deaf school area this southern most of Cott could take off.
Yes			1	It is the best pool to extend the dynamique of the north of Cottesloe Beach with a good integration in the landscape and others activities (walking, coffee shops, etc). The others options would be exposed to storms in winter or summer sea breezes, giving less use. A pool in the sand dune like in Scarborough will be more use, and 12 months of the year - best return on investment on long term.	
No				This development is contrary to the environmental recommendations in the coastal development study 2.6. This is a costly and risky planning initiative.	https://www.planning.wa.gov.au/publications/1168.aspx Do not develop within 150m of the coast
Yes	2	3	1	Option 3 is preferred as:- Option 1 - whilst ideal in its addition to Cottesloe Main as an amenity for the 'premium' Perth beach, I believe it will suffer in areas of a) maintenance/water quality - having spent my early years in Sydney, the one common factor of nearly all Sydney rock pools with regard to water quality is the daily tidal flush. This occurring with force and agitation by the significantly more regular wave and tidal action over a pool wall designed lower to enable this to occur. The sea wall height of Option 1, coupled with the infrequent summer swells and lower tidal movements will impact quality and thereby its use and add ongoing cost. b) length/width of pool - at 25 mtrs it runs short on ideal lap length and may not see its full potential realised, particularly so if sand drift/capture shorten its east/west length. Option 2 - a) prevailing winds will see this location suffer. Apart from health/exercise benefits, rock pools provide a community forum to 'act/belong/commit' (perhaps Healthway may contribute??), the Free Doctor will not encourage its use b) heritage c) located at the extreme end of a one way ingo/outgo. Option 3 - preferred on a) shortcomings of other options b) proximity to Marine Pde/Napier St carpark c) opportunity to create something of merit from all angles.	
No					See attached submission
Yes	3	1	2	Ocean pools are more natural and better fit for the coastline, they are extremely popular in Sydney and other parts of Australia. North of the groyne is protected from the south west winds.	
Yes	1	2	3	Proximity to other facilities and beach access. Ocean saltwater pools should be about being right on the water, not across the road on land.	If the polo area is required, what about it being south of the groyne so it doesn't impact on the overall size of the northern pool or into the current gentle bay?
Yes	3	1	2	The area does not need another enclosed fee paying pool. Why would people pay money to swim in a salt water pool right by the beach that is free. We are adequately serviced by Fremantle and Claremont. The ocean pool in the ocean has the most appeal as it has the least environmental impact. Is the most ocean like swimming experience of the 3 and would be the cheapest option to built and maintain and give the best free experience to people visiting and increase the experience people get from visiting Cott. The fully enclosed private style ocean pool would be ok, but would here be a charge to use it given the facilities etc? Would people bother to pay when calm in summer?	
Yes	1			A pool at sea level on the south side of the Groyne is by far the best option.	
No	1	3	2	Minimal impact on the environment. More natural look.	
Yes	3	1	2	South of groyne is visually more secluded but I would want it 50 metres exactly and with as many lanes as possible. Parking may need expanding North of groyne 'bay' should remains unspoilt.	Child pools no diving boards steps into water for aged ramps for handicapped showers Shade issues are these lifeguard free?
Yes			1	The pool at the bottom of Eric Street is the only one that won't have any impact on the local reefs, surf breaks or the already pristine swimming spot on the north side of the groyne and therefore the only one that I support.	An ocean pool is a great idea to have in the area and something that has been missing on this section of coast for a long time. Having grown up in Cottesloe, should used to swim in the old pool at the southern end of the beach and now that I have my own kids would definitely utilise a pool in the area. North Cottesloe being a quieter stretch of beach makes sense to have the pool as well. Cottesloe is already over crowded during summer and would be unbearable adding another reason for people to go there. The boardwalk idea at the site would be fantastic as well.
Yes	1	2	3	I strongly support option 1 because it provides the best natural sea swimming experience with a sandy bottom, with additional opportunities for snorkeling and other water sports if it extends to a depth of around 3-4m. The educational and tourist benefits of having access to Cottesloe's amazing marine life in a safe but natural looking ocean pool cannot be overlooked! Options 2 and 3 are too clinical in my view and too expensive to reasonably consider as they will require significant initial and ongoing maintenance costs. I also strongly support the notion that the South Cottesloe Groyne at Beach street instead be developed for use as a natural ocean pool in with a similar design to option 1. The cost of putting the pool at the South Cottesloe location appear to be similar to having the pool at the currently proposed location for option 1, and the parking and accessibility at South Cottesloe is either very good or can be made very good with some investment in pavement. Space is available for the addition of changing facilities.	I swim in the ocean twice a week all year round. It provides a peaceful place where I can restore my sanity, and the cool ocean water is good for my immune system and metabolism. At present I swim at Coogee beach because it has a shark netted area. It is, however a 20 minute drive from my home in Mosman Park, and during times of winter storms the ocean is too choppy to swim in and I have to look for other options. If a Cottesloe beach pool would be become available I would be there just about every morning! Who knows, the money I save on petrol could be spent at one of the nice cafes in Cottesloe!
No			1	If we must have an ocean pool, Eric street is a better location	
Yes	2	1	3	north of the groyne is already busy with the surf club and many beachgoers south of the groyne has fewer beachgoers and will cause less congestion Eric st is too fat north	
No				Swimming pools do not belong on swimming and surfing beaches	Put it on the Seaview golf course
Yes			1	I only prefer Option 3 Reasons for Option 3 1) Good planning by spreading the beachfront use to the north 2) Sitting above the ocean and off the beach/reef environment. 3) Water Polo pool as well as normal pool. 4) Closer to parking infrastructure. 5) Easily accessible to all age groups. 6) Creation of a 'node' at N COTTESLOE enhancing the entrance to the Suburb. 7) The Dune Top walk as a desirable feature creating a sense of place - a platform to view the ocean and a great solution to north/ south pedestrian and bicycle movement. 8) Great for locals , people looking for a safe salt water swim and tourists alike. 9) It is a project not wanting any money from Council, so no cost to the local community. Reasons Against the Other Options 1) Option 1 adds to a man made groyne that will destroy the Cott main surf break. 2) No modelling has been done on the sand movement that will result. 3) Option 2 is building on the reef ! And is at the mercy of the Seabreeze 4) Both are at current sea level with no provision for any rise in future sea level	
Yes	1	2	3	The attraction of a genuine ocean pool wins it for me, plus the area north of the groin would remain free for existing users. The sea breeze will be a bit of a problem for summer afternoons, but if the wave surge can be largely contained, the pool will still be used. The sea breeze and winter storms may push sand and weed into the pool, which will add to ongoing maintenance costs. Hopefully this isn't too much of a problem - "icebergs" Pool at Bondi Beach is closed once a week (I think on a Thursday) for cleaning. However, if Option 3 genuinely has funding for its construction, then I would happily support this option, as one major practical impediments to having a pool built will have been solved.	
Yes	3	1	2	My understanding is the pool must be south of the groyne to ensure fresh water is constantly circulated (due to our currents here in WA). As such, a pool north of the groyne should not be an option. The only reason I chose Option 3 (land based) as my second choice is because I firmly believe Option 1 (north of groyne) should not be up for consideration. Thanks Tania	If any of this is environmentally detrimental, I do not support it. Further, this should be financed by the state, and not exclusively by ratepayers.
Yes	2	1	3	South option will not impact the surf break to the north of the groyne and also not require sand replenishment or impact the movement of beach sand like the north option. The land based option defeats the purpose of a beach pool as it is not connected to the ocean like a pool located in Sydney etc so this land based pool could alternatively be developed anywhere else because it is just like another suburban pool.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	2		South the groyne has the least visibility and the area is rocky and therefore cannot be used as a swimming area without a pool. North of the groyne parents could be closer to their children in a pool. It would affect the aesthetics of the area. But anything would be better than having a pool at the corner of Eric Street and Marine Parade. The area is already congested with traffic from the two cafes, swimmers, surf lifesavers and the hotel apart from residents who park in the streets. I attend North Cottesloe beach every day at 5.30 am for a swim, run, yoga exercise, coffee and socialising and this is the only time to avoid the congestion of current traffic. If you put a pool, not only would it ruin the ocean views and the beauty of the area but it would become an eyesore with commercial value. I don't believe lanes should be provided in any of the pools. I believe they should be open swimming areas only. Life is already too regimented. Those who want to become Olympians can go to Challenge pool or Claremont pool to prove themselves. Most of us just want to relax and enjoy ourselves at Cottesloe. I intend to request all my colleagues from North Cottesloe to vehemently oppose a pool in this location. At present the beach communities in Cottesloe and North Cottesloe are very close knit and the installation of a pool at the end of Eric Street would destroy this intimacy and sense of belonging.	
Yes	3	2	1	The beach area south of Barchetta is all but not used even during the busiest of the summer months. Locating the pool in this area would make use of the underutilised area without affecting any of the current busy beach spots, as well as effectively join the Cottesloe and North Cottesloe beaches and amenities.	I do however feel that it should be located a little further south than where proposed - by about 100 to 200 metres. This would allow the pool to be built at a lower level closer to the beach and closer to the water, with this area being all but unused at all times of the year (even in summer). This would also allow for a design that is more in tune with an 'ocean pool'. Anything that resembles what they have done in Scarborough would be unacceptable.
Yes	2	3	1	Focus on the third option, utilises a quieter part of Cottesloe Beach to the north. Both other options are too dependant upon mother nature, SW winds in summer for option 1 and winter swell, weed, potential beach erosion on option 2. Existing parking for option 1 exists. Rising sea levels may shorten the longevity of options 1 & 2. Preserve the winter surf break. Get the architects involved with the re-development of Scarborough Beach Front and Yepoon re-development, two fantastic jobs. Kind regards Jeff Vidler	
Yes	3	2	1	Option 1 - north cottesloe is non invasive to the existing beaches, it will be usable all year round and would no doubt require less maintenance due to it being located out of the ocean. It also extends the coastal experience to a greater area for more people rather than focusing it all in one location. Scarborough is a great example of spreading the activation and what an asset such as a pool can provide to the community. Option 2 - south of the groyne is also somewhat non invasive to the existing beaches but will likely be unusable in storm events due to its proximity to the ocean, high impact all year round from sea breeze. I also question the environmental impact on the existing reefs. accessibility is a concern. Option 3 - I dont support this option due the significant impact it will have on the beach, surf break, possible water quality concerns, it also does not provide those who do not like swimming in the ocean with a viable alternative option like the other two.	
Yes	2	3	1	I believe the land based pool near marine parade and Eric street will be least disruptive to the existing ocean environment (reef, wildlife, surf breaks, tidal movements etc).	I can't wait to use it!
Yes	1	2	3	Option 1 is the most economical and will provide the best rough weather protection for the ocean saltwater pool option. All beach goers including children need SAFE access to the ocean during all seasons. The ability to Safely Ocean Swim in saltwater during all seasons for the plus 65 year olds is critical for Daily Exercise and health maintenance.	Please expedite this Project with UTMOST URGENCY so I may have a short term enjoyment in my old age.
Yes		2	1	Option 3 is my first preference. If Option 3 is not built I would support Option 2. Option 1 is not acceptable at all and should not be built in my opinion. It would ruin the current swimming pool created by the groyne. It would also become very dirty in the heat of summer.	
Yes	2	3	1	Option 3 presents the opportunity for a showpiece pool that will bring positive change to the Cottesloe foreshore utilising space away from the existing main attractions. This option also utilises the existing facilities and has the potential to add further to these facilities, eg more change rooms, cafe at pool level, lounging areas etc. Option 3 is also the most practical providing a 10 lane, 50m pool. It would benefit from significant wind protection to the south west corner. Option 1 looks to be the easiest to develop, would require construction of infrastructure around the pool, could use the groin as an effective wind break but has the potential to create conflict between the 75m east west swimmers and the 25m south north swimmers. Option 2 is not acceptable due to its environmental impact, the effect of the south wester on the southern side of the groin and the aboriginal significance of the site.	A suggestion for Option 3 to utilise the ocean side car park to the north of Indiana Tea House either for the pool or as replacement parkland incorporating parkland, wind breaks, shade pavilions, play equipment, exercise areas, picnic spaces and barbecues.
Yes	1	2	3	I believe north of the groyne is the best option. That is where I always envisaged it. South not nice as too windy and rocky. I don't want the land-based pool as I see that area of Cottesloe as natural and unspoilt, just dogs and people.	I am a previous resident of Cottesloe (2010-2015).
Yes	2	1	3	Option2 Provides for north of groin to be still available for body boarders in winter. Not a supporter of Waterloo needs. South side of groin is underused where ocean pool is suggested. Public transport closest to Groin area. Parking more available at Groin area.	
Yes	2	1	3	Option 2 is the best option to cater to those people who regularly swim therefore will benefit and contribute financially to a pool. A pool on the south side would also keep the beach on cottesloe which is regularly used by families as it is sheltered. An ocean pool would be used by the large number of Perth swimmers, particularly those swimmers who compete in open water swims.	
Yes	3	1	2	South of groyne pool looks to suit lap swimmers and children in wading pool with a small kiosk - looks to have a local feel about it. Most Sydney pools are for locals. Pool near Nth Cott Surf Club may lead to major infrastructure changes and restaurants which won't keep the pool local. North of groyne pool just looks ridiculous.	
Yes	1	2	3	Lower cost, "ocean swimming" experience, sheltered beach area. Eric St option may as well be a normal swimming pool (that may also be worthwhile - but the idea of an ocean pool is lower maintenance / lower cost whilst offering a "safe" ocean swimming experience).	
Yes	2	1	3	An ocean pool would be advantageous to local swimmers but I wouldn't like it to impede on the beautiful beach as it is	
Yes	1	3	2	Should be an ocean pool if building near the ocean. North of the groyne will add value to the already exceptional beach facilities at the main Cott beach. It will also be closest to the car park improvements that are coming. It will have good access and I imagine get most use in that location.	
Yes	3	1	2	I think the Option 2 Rock Pool concept fits in well with the natural environment, and allows the main beach to remain as it is. The main beach is an iconic beach in Perth and should remain as it is. The Rock Pool would be a fantastic asset to the beach, but would not be an eyesore. Although more exposed, having the outlook from this position would be amazing for swimmers, and you don't really feel the wind when you are swimming laps. I also love the concept of the smaller pool for younger children and senior citizens. Recreational fishing from the Groyne would not be affected. I am not in favour of Option 1 at all, the pool on the North side will look like an eyesore on a simple and beautiful beach. Recreational fishing would not be possible anymore. Eric Street option is not an Ocean pool as it will be built in concrete behind the beach, but is preferable to Option 1.	
Yes	2	1	3	A LOT MORE PEOPLE USE COTT BEACH RATHER THAN NTH COTT IT HAS BIGGER PARKING PLACES AND A MUCH NICER BEACH	IT WOULD BE GREAT BEING A ALL YEAR ROUND SWIMMER THAT I COULD BE SAFE 100%OF THE TIME
Yes	3	1	2	South of Groyne will bring in another area of Cottesloe that is currently not utilised thereby, expanding to the attraction of the current amenities. The other options will encroach on existing areas and amenities.	Sydneyiders have enjoyed the benefits of direct Ocean Pools for many years with a model that has proven itself.
Yes	2	1	3	north Cott option is not an ocean pool	I think an ocean pool north or south of the groyne at Beach Street could a viable option. A pool in this area would have less impact on the environment and current beach goers than Options 1 & 2. There is greater potential for parking for pool users. A pool in South Cottesloe would create a hub or social precinct which would provide facilities for the area and at the same time relieve the need for upgrading facilities around John Street and Eric Street (where though urgently needed, any attempts to do so are hobbled by dissent). Thoughtful, community-minded planning could make this very beneficial for Cottesloe and its ratepayers, as well as the community in general.

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	3	1	Option 3 presents the opportunity for a showpiece pool that will bring positive change to the Cottesloe foreshore utilising space away from the existing main attractions. This option also utilises the existing facilities and has the potential to add further to these facilities, eg more change rooms, cafe at pool level, lounging areas etc. Option 3 is also the most practical providing a 10 lane, 50m pool. It would benefit from significant wind protection to the south west corner. Option 1 looks to be the easiest to develop, would require construction of infrastructure around the pool, could use the groin as an effective wind break but has the potential to create conflict between the 75m east west swimmers and the 25m south north swimmers. Option 2 is not acceptable due to its environmental impact, the effect of the south wester on the southern side of the groin and the aboriginal significance of the site.	The council should consider utilising the car park to the north of Indiana Tea House as replacement parkland for the land taken for the pool. The Cottesloe foreshore needs more community facilities in the form of kids nature play, picnic areas, green space, wind breaks, shade pods and barbecues.
Neither					
No					
Yes		2	1	Option 1 and 2 will have too much of an environmental and cultural heritage impact hence will never get planning permission anyway so what's the point? But I do like the idea of option 3 as it spreads activities along the coast and it could be turned into a very nice beach club area that could really smarten that part of Cottesloe coastline	Ideally I would prefer overall an option 4 - a land based pool / beach club like they have in Lorne Vic. Ideally located where current car park is beneath tennis courts and have the car park behind it together with marine parade diverted in an open rectangle as a form of traffic calming. That would involve using the John Dunne 'dune park'. It could be called the 'John Dunne beach club' that would have a 50 m geo thermally heated salt water pool with infinity edge over looking the ocean all abilities access, a small kids pool, gym and coffee shop (which would also help with revenue raising for running costs) Below the pool then could be a large grassy area with trees for shade, bbqs, playground, skate bowl and nice beach access. This would be fabulous all the while the traffic is diverted to behind the pool. Overall I feel these 3 pool plans lack vitality and vision and are a half hearted attempt at exploring the concept.
Yes	3	1	2	I think aesthetically options 1 and 2 better Also intervention with current facilities may also be better	A pool is desperately needed for Cottesloe. Location is secondary to actually having one. We need to materially improve Cottesloe as a destination Also a safer swimming option is now a must. Reality is people, locals and tourists are shunning the water due to the shark issue and that is hurting vibrancy, Many reasons for one cannot think of one against. The funding decision is separate to whether one should be built.
Yes	3	1	2	The option 1 uses a sensible area of the beach front, and allows the main beaches to still be available for tourists and locals. It adds to the attraction of a pool that can be used by all, including for training purposes. It also adds a very fine area for another activity, snorkelling just off the side of rock style pool, this would be able to be controlled by life guards. The main beaches of sand w would still be available to swimmers in the summer and surfers and boogie boarders. The pool would be less open to degradation each year with fronts, tides and waves moving sand around any beach based pool and there fore continued worry about long shore drift and other environmental and climatic changes. The south side of the breaker being rock would be much more stable for a pool and construction greatly enhanced.	Option 3 would also leave beaches available to tourists. For many of the same reasons that I think the option 1 is the best choice I would make option 2 a good choice. Clearly for all the same reasoning I would feel option 1 as being absolutely the worst possible choice the ocean would soon deal many erosive blows and escalating costs each year. You have to think cost, and overall use by all, tourists and locals
No	1	2	3	I could say yes subject to clarification. North cott is not an "ocean pool". Prelim question is do we need a pool at all? Has that matter been decided already. Traffic issues will be horrible. I note that there is talk of private funding - on what terms? Who will control access - the Surf Clubs?	
Yes			1	The Number 3 would be away from the sea horse and marine sanctuary on the south and not interfere with the lovely groyne area and salt water is the preferred, also easy for disabled to access from the beach area	I hope it is built for easy access for the elderly and disabled? Thank you
Yes	2	3	1	I am opposed to Option 2 as it infringes on land of relevance to the Aboriginal community. I am opposed to Option 1 as it interrupts the Iconic Area of "Cottesloe Beach". This would interm have an effect on tourism and income of businesses in the area. I would prefer Option 3 as it placed in a less busy area of Cottesloe which would reduce congestion issues and be more easily accessible. It would not interfere with historical or cultural places of relevance. As it is not located in the water it would also have a lesser impact on marine life, currents and the coastline.	
Yes	1	2		Ease of access Well researched over many years	
Yes	1	2	3	Option 1 is more natural fit. It's sheltered from the sea breeze (which can be very strong and cold), has less environmental impact and less costly. Fully supportive of a rock pool being built in Cottesloe. The whole suburb needs a revamp but keep its natural look and class.	
Yes	3	1	2	Being a swimmer from the East Coast I would love nothing more than having a pool not only local to my residence but to have to utilising the beautiful sea instead of chlorine.	
Yes	1			Looks most acceptable using existing structure of the groin	
No	2	3	1	I EMPHATICALLY do not want the pool to be south of the groin, as this will impact on the surfing area there. Also it will destroy the beautiful snorkeling and abalone sanctuary reef there. Every surfer in Perth will rise up to protest if the pool were to be built there. Having the pool north of the groin is not much better, as it will take space away from the beach which is not large.	I EMPHATICALLY do not want the swimming pool to be built. I want the beach to be as natural and unspoilt as possible. There's already a beautiful (natural)swimming pool north of the groin - the beach! Cottesloe Beach is usually a calm and peaceful natural swimming lagoon. It's hard enough to keep the pylon and the toilets maintained - I think the pool would be difficult and expensive to maintain.
Yes	1	2	3	Many visits to family in N Sydney It is so beautiful to walk to, around and swim in their many ocean "baths", they are everywhere along the coast, can be used all year round and with safety from all predators. It must be salt water from the ocean, not the massive expensive used on Scarborough pool. Every time I return to Perth wonder in amazement why we don't have these along our coast-. Thank you, Margot	
Yes			1		
Yes	1	2	3	Option 1 provides an ocean experience and enables this at low cost and seemingly lost environmental impact. Furthermore, it will be the first of its kind and therefore a wonderful drawcard tourism experience.	
Yes	2	3	1	Option 3 spreads the facilities out along Marine Pde. The area near Cottesloe Main Beach is already heavily congested in the peak of Summer. Although there is a higher cost for Option 3 I think it is a better proposal when considering the future of the area and the existing amenities that are located nearby.	Claremont resident. Live within walking distance to Claremont Pool but would also very much prefer to have the option of an ocean pool.
Yes	1	3	2	North of groyne is the most protected while still being part of the beach experience and allowing easier flushing of the pool. Eric street is next best as it is obviously sheltered - but not such a beach experience and flushing with saltwater would require more pumping - also possibly more expensive to build. South of the groyne is the least attractive as it is very exposed to the south westerlies and would require more work on the reef and rocky beach.	We desperately need a real ocean pool here as the one at Scarborough is just an ordinary pool by the sea. If no one is going to do anything about the shark problem the ocean pools are the answer for those of us who prefer to swim/train in the ocean.
Yes	1	2	3	Option 3 is not an ocean pool. It is a swimming pool. Unless you find a way to make it an infinity pool (continuous view to the ocean and the horizon from the surface of the water), it will just look like a swimming pool squished between a busy road, a busy intersection, a pub and a restaurant, who would no doubt benefit from the increased foot traffic, but to the detriment of users. Add to this the destruction of dune ecosystem and the potential for massive cost due to erosion. Option 1 makes the most sense "providing" studies can guarantee that water will flush easily and pool won't feel with sand and seaweed. May I suggest the Project looks at the enclosure in place at Busselton Beach made of thick "rope net", which lets water in more easily than the proposed rock enclosure (at least for the portion closest to the beach) and probably let sand out. Also, Swimmers like 50m lane. Given the basin is 75m long, I suggest the lanes are arranged to be 50m. (systems exist where there is no wall at one end)	
Yes	1	2	3	Access from beach, better protection from gales/waves and parking accessible. Also access to pool via beach means no slippery concrete surfaces to cause accidents (and litigation)	
Yes	2	1	3		

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No				The proposal to develop an ocean pool has not been considered in the context of the significant erosion pressures modelled by Cardno (for the Town of Cottesloe) for the 2040 and 2070 timeframes along the Cottesloe - North Cottesloe coastline. What are the adaptation options for dealing with coastal hazards on the Cottesloe coast? Will Cottesloe beach ultimately become an engineered coastline and who's going to pay for its construction and maintenance? Will an ocean pool at Cottesloe beach create opportunities or constrain long term maintenance and management of the Cottesloe beach foreshore? Before any decision is made on development on the coastal reserve (including an ocean pool), the Town of Cottesloe must engage with the local community and stakeholders through a Coastal Hazard Risk Management and Adaptation planning exercise (in accordance with State Planning Policy 2.6 and associated Guidelines).	The City of Fremantle recently collaborated with the Town of Mosman Park to undertake a Coastal Hazard Risk Management and Adaptation planning exercise for Port, Mosman and Leighton beaches (http://mysay.fremantle.wa.gov.au/coast-plan). The Town of Cottesloe must do the same, possibly in collaboration with the City of Nedlands (for Swanbourne Beach). I'm not opposed to an ocean pool at Cottesloe beach. But Council needs to work out what it's going to do about hazards to the rest of the coastal foreshore before it starts investing time and significant money on development proposals where the ratepayers will ultimately bear significant financial burden to maintain.
Yes	1	2	3	Ocean pools are less detrimental to the land where displacement of earth and flora takes place, they are flushed by the sea and very clean and consequently much healthier for people. A protected pool would be beneficial for users in regard to waves and help some users start swimming again if they have a fear of sharks. North of the groin will ensure no damage to the reef occurs. I love the ocean pools in Sydney and regularly use them when I travel there.	
No				I don't want any of them, particularly south of the groin, as this will destroy the protected reef and surf break.	People come to Cottesloe to experience a natural, unspoilt marine environment. Existing activities include swimming, snorkeling, canoeing, paddle boarding, body surfing, boogie boarding, and surfing near the natural protected reef sanctuary. There is no need for an artificial pool. There are plenty of these in the suburbs. Destruction of the natural habitat is environmental vandalism. Pool construction and maintenance will be an ongoing burden to ratepayers for little benefit.
Yes	1	2	3	Option 1 is most natural, makes use of the wonderful resources we already have rather than wasting ridiculous amounts of money, energy and upkeep on pumps, water control etc. The facilities at Cottesloe beach are close enough to use.	Coming from NSW I have loved having ocean pools, they provide a wonderful, safe swimming experience year round for young and old and enable many people to use the water when they otherwise couldn't. They should be free and open to all of the community, not restricted and overrun by serious sportspeople, thus intimidating those who would most benefit such a facility.
No					The Cottesloe Council is a small council and does not have the expertise or money to be considering such a project. It is a State government issue and the council should not be wasting rate payers money.
Yes	3	2	1	Option 3 has the most chance of getting established first and is likely to be financially sustainable. Option 2 will take a long time to get approvals, but will be best example of the classic ocean pool Option 1 is too intruding on the beach and winter surfing zone Option 1 and 2 will need significant on going maintenance financial burden on Cottesloe rate payers.	As the foreshore master plan is not complete, Option 3 should be shifted to the carpark near Bryan Way. additionally Option 2 is at risk of any mean sea rise with global warming and dune erosion.
Yes	3	1	2	Best integrated in the landscape. Best swimming experience.	
Yes	2	3	1	I won't impact on the main cott beach and cause marine issues off the groyne.	
No		1		Still allows swimming north of the groyne in open water. No other suitable. Would prefer no pool	
No		1		Prefer no pool but Option 2 if decided to proceed	Cottesloe Beach is wonderful as is and would be changed forever Try shark net solution
Yes	2	1	3	minimal impact to environment.	safe swimming, it will also add attraction to Cottesloe as local and international tourism destination
No	2	3	1	I don't want any of the above. Totally opposed to wanton destruction of Aboriginal Heritage land. There is no room for anymore traffic or people in summer at Cottesloe Beach. It would be like Sculptures By The Sea but all summer long and when Sculptures are there it would be impossible to cope with the numbers. A pool on top of fragile sand dunes is totally unnecessary. All proposed features available at Claremont Pool already.	This whole project is a total waste of tax payers' money. Local residents have ready access to the beach already and life savers to protect us. Scarborough has provided a beach pool. There is no need to duplicate such nearby facilities. Cottesloe Main Beach is under enough stress in summer already. Maintaining the Beaches at Cottesloe are totally funded by the ratepayers and a huge expense. Adding these facilities will only increase those expenses for local ratepayers for little if any gain. Having private operators on our foreshore(eg Indiana)has only been a nightmare for the Council and residents. This would be even worse.
Yes	1	2	3	I'd like to see an ocean pool like the ones they have in Sydney.	This is a great idea - well done.
Yes	1	2	3	Ocean based pool is a more streamlined way of integrating a pool. Both of the groin will ensure it gets more use.	
No	1	3	2	North of groyne retains the size of cot beach. Don't like the other 2 options.	
Yes	2	1	3	Option 1 would change the landscape significantly and, in my opinion, ruin the view and look of Cottesloe. It looks too big and ugly. Option 2 adds to the landscape without taking anything away from the natural Cott landscape and beach experience. The south side of the groyne is currently underused, there is plenty of space and this will extend the beach space experience. Option 3 is ok but a lot of space would be needed which again will change the natural landscape of the dunes etc. It's also not as much as natural looking as a rock pool, which are plentiful and popular on the East Coast and thus could be a rear tourist draw to the area.	If you are considering Option 3, an alternative space could be Swanbourne Reserve behind The Shorehouse. There's lots of open space to create a great pool there with ocean views and other amenities, including cafes, car parking.
Yes	2	1	3	The second option is more aesthetically pleasing, fitting in well with existing tourist infrastructure at Cottesloe Beach and not impacting the current majority of beach goers using the north side of the groyne, mainly recreational users, nippers, ocean swimmers and board and ski paddlers. The second option is the closest to train access and ties in well with the pedestrian sidewalk running past the golf course along Forrest street. The Cottesloe Surf Life Saving Club had an Annual General meeting in 2017 where a majority of voting members supported the building of a pool either side of the groyne at Cottesloe Beach. It is the surf clubs official policy to support it.	
Yes	2	1	3	Definitely need a freshwater pool - ideally at 50m. Great to have kids pool. I think the location at Cottesloe is better than North Cottesloe as there is already a lot of development at North Cott. Number 2 fits in best with existing location a bit like icebergs at Bondi. Number 1 disturbs the view of Cottesloe and the groin that is so iconic.	
Yes	2	1	3	Plan 2 fits in better with the existing infrastructure and would be easier for all ages and abilities to access. It would be great to have a salt water pool that can flush easily. It would not have an impact on the current beach at Cottesloe. Building the pool north of the groin would mean that the current beach is significantly impacted upon. The pleasure of swimming between the groin and pylon is removed. Likewise the beach can still be used effectively for all ages at the Surf club. Despite studies for flushing of sand, it makes sense that any solid barriers placed north of the groin would invite sand to build up and possibly change the nature of Cottesloe beach entirely further along. Putting the pool in Option 3 location only continues to increase the facilities at that end of Cottesloe and does nothing to help rejuvenate the southern area. It is also built on the dune system.	
Yes	2	1	3	Eric St location is totally unsuited for 2 reasons: 1 Location in relation to beach, squeezed in. 2 No parking. North of groyne location would require constant maintenance as northwestern currents and winds frequently cause a big build up of weed in that corner. South of groyne is well located for swimmers, and would be naturally flushed.	The South of Groyne location comes close to being similar in location when comparing with proven ocean pools in Eastern Australia. While parking is under threat from misguided planning, train and bus access are good. Eric St location is too small, with parking removed to Napier St and Grant St. Poor train access.
Yes	2	1	3	Ocean pool is more special than a land based pool. South of the groyne means less disturbance to Cottesloe beach proper, so we end up with the best of both worlds.	
No	2	3	1	South of groyne will destroy reef area, not sheltered, no facilities. North of groyne will affect existing use, concerns about flushing. Eric St location separates pool users from other beach users, makes use of under-used area, close to parking and facilities.	Concerns about sharks or "they have them in Sydney" are not sufficient reasons to construct an ocean pool - there are plenty of public pools for those who want to swim laps. Sheltered area for children/elderly and poor swimmers is desirable, but lanes and lap swimmers are a potential conflict.
Yes	2	1	3	An ocean pool would be unique to WA and if located south of the groyne would draw comparisons with other famous ocean pools over east. Locating the ocean pool north of the groyne would impinge on an already idyllic beach for children and people wanting to swim in a calm part of the ocean rather than a pool. The current setting immediately north of the groyne is greatly admired the world over and should not be tampered with. A land based pool offers nothing unique and can be found elsewhere eg Scarborough and elsewhere. Further, it would take up valuable space on a shoreline increasingly being placed under pressure. As Perth's population grows such space is going to become all the more vital.	Most of the key concerns regarding the ocean pool being placed south of the groyne can be satisfactorily addressed.

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
				Great options and variety! Option 1 concern is loosing the view whilst swimming, and disturbing the iconic look of Cottesloe beach. Front Cover image example would reduce this as its a very low wall, but this may not be feasible. this option is great for the beach entry feel, the only downside is you are sealed in on all sides. one similar on Bondi to Bronti walk in Sydney looks like a ship building dock rather than a swimming pool. Not as popular to swim in. still a good option though. Option 3 concern is that it is too similar to Scarborough's new pool, they should not compete, and they should provide different benefits and purposes. Both be tourist attractions. Cottesloes charm is a bit more Rottneist like (not polished look), vs Scarborough is more like Brisbane Gold Coast over developed), continual spreading is not always ideal. better to buy a portion of land from golf course or build a multi-storey carpark with public grass roof rather than moving amenities. Option 2 is best as would provide the ideal tourist attraction like icebergs in Sydney, and more public. it would be used soooo much. It would provide a different attraction to Scarborough and it is basically what all existing Cottesloe beach goes want. It could also bring more attrition and link to the sundial area that is always missed and adjoining lookout to surfers. For sea breeze concert could have acrylic or glass wind deflectors that could be opened or shut as needed. For parking concerns should build a multi storey carpark behind the Cottesloe surf club adjoining existing small open carpark and put lookout on top with kids playground and function hire, wedding ceremonies etc. would pay for itself in no time and also only in existing view blockage, so nothing for people to complain about. Otherwise could take the corner from the golf course, but shaded parking would be something people would pay for in summer (could just charge at busy times like the casino) or first hour free then charge hourly model would be great to encourage movement and help out those just wanting a quick dip struggling to park, as there is none in the area.	For sea breeze concert could have acrylic or glass wind deflectors that could be opened or shut as needed. The main thing people want in Perth is a real rock pool attraction, secondarily they want a place to swim where there is no Shark Concern, but it still feels like you are swimming at the beach. building both option 1 and 2 would be ideal, so you get the waterpool too. For parking concerns should build a multi storey carpark behind the Cottesloe surf club adjoining existing small open carpark and put lookout on top with kids playground and function hire, wedding ceremonies etc. would pay for itself in no time and also only in existing view blockage, so nothing for people to complain about. would provide an additional 'photo-point' like the Scarborough stair to knowwhere view on top. Otherwise could take the corner from the golf course, but shaded parking would be something people would pay for in summer (could just charge at busy times like the casino) or first hour free then charge hourly model would be great to encourage movement and help out those just wanting a quick dip struggling to park, as there is none in the area.
Yes	2	1	3		
Yes	2	1			
Yes	1		2		
Yes	1	2	3	North of groyne built into ocean is better for sea breeze and the whole point of an ocean pool is it's in the ocean.	
Yes	2	1	3	Maintain current look and feel with addition of new amenity.	
Yes	3	2	1	choice 3 does not disturb the beach in any way	
Yes	2	1	3	I used to enjoy and use the salt water pools at NSW beaches, they are great for families and children and people who are not strong swimmers.	Pool needs to be at beach level not up on ground and definitely salt water. I have swum at Cottesloe beach before and felt it very dangerous, preferring to swim at Safer beaches with clear water, no rips or sharks.
No	3	2	1	The plans for the ocean pools are flawed. The key to a successful ocean pool is natural ocean flush and these locations provide none of this.	If people want to swim in a pool, they can go to an existing pool in another suburb. Cottesloe is for Ocean swimmers and it should remain so. A pool in Cottesloe will just add to ratepayers cost burden.
Neither	3	1	2	Option 2 would be a really point of difference at Cottesloe compared to our other beaches. It's also vastly different to the pool at Scarborough and will give people more options between the type of pool they wish to use (unlike option 1 particularly). I think this option offers swimmers the most 'ocean like swimming experience' whilst making them feel safe.	This is much needed in WA!
No	3	1	2	Option 1 will disrupt the surfers that use the spot, it is an iconic beach and very populated particularly during the summer months. There is just not enough space to put a pool and cater for surfers and other beachgoers. Option 3 is a self contained swimming pool not an ocean pool. This could quite easily be situated in an alternative spot away from the beach in a less intrusive and ore cost effective location. Option 3 would interfere with surfers again and also will have a massive impact on the marine life and the reef. Overall there are not enough facilities such as parking, toilets and showers. I think that the overall lack of parking and amount of visitors to the area has been grossly underestimated.	Cottesloe has some of the most beautiful beaches you will find anywhere, people come from far and wide to swim, paddle, fish, windsurf and kitesurf. I do not want to see our coastline disturbed for a swimming pool that would be much better placed away from the beach. It was mooted at the meeting that maybe it should be situated north of the groin at Duchies. Obviously the person that made the suggestion does not realise how many windsurfers use that spot all year round. They have already had their rigging area compromised by the placement of a childrens playground, which incidentally it was promised would be moved and hasn't. The reason being cost, yet here we are looking at spending a lot of money on a pool!
Yes	2	1	3	Pool south of groyne adds to the useable area at the main beach . That area south of the groyne is not presently utilised There should not be so much of a problem with sand. It would be more of a Sydney-type ocean pool Such a pool should attract more people to use the groin and fishers may be able to use the extended outer walls of the pool If there is still a plan to redevelop the Clubhouse then extra facilities for the pool users should be incorporated into that plan to take pressure off the Indiana facilities	Option 2 does not add to the useable area of the beach The area just north of the groin is reasonable protected as it now is There would seem to be a problem with keeping the sand out of that pool Option 3 is not an ocean pool. It clutters the area and might just as well be placed elsewhere in Cottesloe to serve a different area of the Town
Yes	1	3	2	I love both the Cottesloe North of the groyne pool concept and also the North Cott land-based saltwater pool idea, but if I had to choose I lean towards the pool design for the North side of the groyne as first preference. The reasons for this: 1) If you're going to have an ocean pool then the ocean is the best place for it. 2) Cottesloe is W.A's premiere beach and a world tourism site but in light of people's hesitancy to swim there due to the fear of sharks, this pool will increase locals and tourists confidence to head back to swimming at our iconic beach. 3) With the water polo lanes and swimming lanes there could be the option of hosting and holding events or competitions there with the surrounding concrete boundaries and groyne pathways as possible vantage points. 4) More display area for Sculptures by the Sea. 5) A North of the groyne proposal would have extra shelter or protection from our sea breeze in summer. 6) I would love to have the confidence to let my 2x young children swim out further in the ocean and this would allow them to gain that extra freedom and increase their confidence and love of our ocean without the fear of sharks, rips or huge waves.	The reason I don't lean towards the South groyne proposal is because I thought this was a protected marine habitat and has Aboriginal significance for this area. - South of the groyne would be unprotected from our strong sea-breeze.
No	2	3	1	Furthest away from me	South of groyne would destroy the reef. Crazy idea.
Neither				Dont destroy a good surf beach	Leave all Cottesloe beaches as a surf beach
No				I have lived in Cottesloe for over 70 years and also a RATE PAYER The reason Cottesloe Beach is so popular is that it is a surf beach and has not been damaged by developers. To put a swimming pool on a surf beach is just stupidity	Those people wanting a swimming pool can just go to Claremont Pool
No				I do not wish to see any ocean pool. Money would be better spent on shark net, Toilets are are present long running unsolved problem so imagine having more swimmers needing facilities !	
No				The ocean between the groyne and the pylon is a superb swimming area, which I and many friends use nearly every day. It would be a terrible loss of ocean swimming to put a pool there.	Swimming in the ocean is one of the most healthy, life-filled forms of exercise. Putting in a man-made pool, attracting hordes more people (tourists), adding to litter, congestion, parking - that is madness!
No					I totally oppose the build of any pool in Cottesloe. Are you planning a chlorinated pool? Claremont has an Olympic pool, Fremantle. Ongoing maintenance at ratepayers expense for the benefit of Perth community who don't pay city of Cottesloe rates. No thanks. Parking issues. The pool will have to be heated for year round swimming - more cost. Reef not to be interfered with whatsoever. It is healthy, thriving ecosystem south of groyne. A pool would decimate the existing reef and it is a surfing break as well. Who and what is driving the push for a pool? Leave the iconic Cottesloe ocean front as is. Interstate visitors enjoy the natural beauty as is. Natural swimming in the ocean. No maintenance, no heating, no chlorination. Far healthier for the body.
No					I like the beach the way it is. I like the fact that it's not terribly built up or artificial. It doesn't look like a theme park and I believe this is what locals and visitors like about coming to Cottesloe. Having travelled to many beaches around Australia and the world, (Italy, Spain, England, Wales, Isle of Man, Ireland, northern coast of Holland, Hong Kong.... and yes there are some lovely beaches in Hong Kong, Malaysia and Vietnam) the only ones I would revisit are the ones that are the least built up.
No				Ocean pools in NSW were popular prior 1960. During and after that period, proper olympic pool facilities were constructed everywhere and used extensively. The oceanside pools are novelties at best. If you already have one then sure enjoy the experience, but dont waste any money putting one in on the off chance it will stop a shark attack. Hygiene will be issues as will siltation. Building a pool on a thriving reef beggars understanding in my view. It will be very seasonal and now hardly anyone swims in the ocean. Most people walk along the path and watch. I surf and would definitely not be using a pool. Use the money more wisely on other things. Everytime we muck about with groins we stuff up the nature flows along the coast. Leave it alone this time.	
No				A total waste of money...who pays for the upkeep etc	How about a shark net for summer like Port Coogee and Albany.

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	3	2	1	Option 3, the pool at North Cottesloe is preferred. It is a new facility operating year round, for the whole Community's and will provide a base for swimming and water polo clubs. It will provide a great nucleus for future developments in the North Cottesloe precinct without impacting on heritage areas, such as Mudurup Rocks or the Cott Main surf break. Unlike existing structures such as the Groyne and Indiana Tea House and options 1 and 2 the north Cottesloe option is 6-9m above sea level and normally 30-40 m from the shoreline. As such it's less likely to be affected by high water, waves or sediment. Visually its impact will be minimal as it's below street level and designed to give an infinity pool effect where the sky, sea, and pool merge.	Options 1 and 2 are subject to shoreline erosional and depositional processes and impact negatively on the cultural and heritage of their locations so are difficult to support. Mudurup Rocks and Cott Main surf break are also impacted. The original naturally formed and flushed "ocean pool" in the lee of the Mudurup Rocks reef, which existed prior to building of the Groyne could be recreated by removing part of the Groyne to allow the shoreline to find its natural position and allow water to wash over the reef to flush the pool. Groyne access could then be provided by a bridge and paths. Option 3 is very different to 1 and 2 and could go ahead with or without 2 or 3 proceeding.
Yes	2	1	3	Option 2 will feel closer to the beach, while not interrupting the coastal line and beach access. I like the multifunctional proposal, and the seating. Making good use of an area not normally accessed, and not interrupting beach users.	So glad that all options include sea water.
Yes	3	1	2	As a fan of ocean pools in Sydney my preference is too have an ocean pool and I feel the groyne at Cottesloe is the ideal location for this. However having recently I have been driving to the land pool at Scarborough and can appreciate, that should an ocean pool at Cottesloe not be feasible, then a land pool would still be a welcome addition to the area.	Please make this happen - it is so sad to be a devoted Cottesloe resident, and an avid ocean swimmer and to have to drive to Scarborough for these facilities. Please lets take Cottesloe to the standard that it warrants and that it residents and the wider community desperately desire. Make it happen!
No			1	I have no desire to see a pool anywhere, full stop. However if there is to be a pool, because the community really really really wants one, then I give all of my preferences, one, two and three, to the only concept I could just possibly appreciate as an add on to the near perfect coastal environment here. If the pool amongst other reasons is for children's safety, I think it would be so exciting for kids to swim in what is essentially the open ocean, even though its on a reef. Reef swimming. Feels a bit like Rottnest to me, the very ideal Love it. And love it elsewhere in Australia. Though often ugly old reef pools, they are still such a special way of ocean going. Feels like direct contact with nature...looks like direct contact too. Any of the other locations will disrupt the visual spaces that are the reason why the visual environment is so relatively peaceful, relaxing, addictive for walks and talks and sunset musings and SXS exhibitions. It is essential to protect empty spaces in the landscape. They make it possible for people to dream them into being. There is a real risk of over delivery of constructed spaces in the north side of groyne and on marine parade. I do have an especial dislike of the very idea of a pool constructed alongside marine pde, near Eric.	Well, probably one additional comment. The Cottesloe public space is bit by bit being jammed. We are lucky that Scarborough is in the firing line. What a disastrous chain of events Alan Bond put in place, there. There is only one way to protect what is unique about Cottesloe and that is to remember never give into the sales talk urging us all to fix something that isn't broken.
Yes				Alternate to pylon-groin swim for small children, elderly & rough days. Protected access to ocean motion, cleaning Readily supervised	WHO will pay? How much?
Yes	1	2	3	I feel that the closer the pool is to the main Cottesloe area the more accessible it is for the public by train. I am a resident of Cottesloe and live quite close to the beach and I feel the location proposals for the bottom two options are better and will be more of an asset in the long run. I don't like the idea of the land based pool but I just want an ocean pool in Cottesloe so I don't mind if it ends up going ahead. I really feel that construction such as this is needed in Cottesloe and its time we started putting a bit more care and attention into one of Perth's greatest assets.	
Yes	3	1	2	South cott , I think asthetically and practically would be best option .	
Yes			1	The feasibility work done to date appear wholly inadequate. There's no mention of coastal hazard line for eg 2050 or 2070. The 'why' or design outcome criteria are not unclear: is this for shark protection, disabled access, unconfident swimmers, regional water polo facility because of a gap identified elsewhere, a tourist attraction, or something else. This is really poor consultation design. I'd expect option south of groyne to be fatally flawed on heritage grounds if not aesthetics; I'd expect option 3 to be fatally flawed in that it will fall into the sea in 30 yrs time. Really need to sort these things out before consulting the public This phase of consulting should have been on asking what the success criteria (against which to assess a design option) would look like and validate the problem. Option 3 seems to have more urban amenity potential from surrounding land use and redevelopment options.	
Yes	1	3	2	Option 1 looks the best and is has a low environmental impact. The ocean water naturally washes into it. It is also the cheapest option. A modern version of Bondi is the way to go. Perhaps TOC could also consider building more restaurants and amenities near it to attract more people to Cottesloe. More events. Please make Cottesloe a more happening place. It's so boring at the moment! Option 3 is the second best option as it's close to amenities. It's not ideal though as it's not an ocean pool. Bit too similar to Scarborough. We want Cottesloe to be unique and exciting. Option 2 is the worst due to it's location and again it's not an ocean pool. It's out of the way and it would be hard to see it.	
Yes	1	3	2	Option 1 looks the best and is has a low environmental impact. The ocean water naturally washes into it. It is also the cheapest option. A modern version of Bondi is the way to go. Perhaps TOC could also consider building more restaurants and amenities near it to attract more people to Cottesloe. Pls organise more events and make Cottesloe a more happening place. It's so boring at the moment! Option 3 is the second best option as it's close to amenities. It's not ideal though as it's not an ocean pool. Bit too similar to Scarborough. We want Cottesloe to be unique and exciting. Option 2 is the worst due to it's location and again it's not an ocean pool. It's out of the way and it would be hard to see it.	
No	2	3	1	An ocean pool north of groyne, as pictured, would have problems during winter with north west winds forcing seaweed into the pool area as the sand is regularly eroded away. Therefore ongoing seaweed removal costs. Construction of a pool on the south side of groyne would have an environmental impact on the reef and its marine life. As Cottesloe beach has relatively clear water close to shore (end of groyne to pylon) at summer time and is patrolled, I feel it is one of our safest beaches.	
Yes	2	1	3	It would be fantastic to have an ocean based pool facility in Cottesloe. We need to bring more life into the area. People will feel that they can swim protected and still feel part of the Ocean. An absolutely fantastic idea. Time for Cottesloe to dip it's toe in the water!	
Yes	2	1	3	Fresher water and allows north of groin to remain protected for none pool use, littlies, boogie boards. Closer to public transit and more parking availability, also central in Cottesloe. Wheelchair access.	
Yes	1	3	2	I like the idea of having a calmer area for my kids to swim in	
Yes	3	1	2	South of Groyne best position for good flushing and experience and least obtrusive. Against: on Fish habitat Reef, isolation, and aboriginal heritage though I think pool design and environment can overcome spiritual energy concerns. I really like it incorporates kiddies pool as the old one was so good and loved by children. North of groyne has real problems with flushing and sand buildup and destroys existing ambience. The pool near Barchetta is artificial and I feel doesn't add to the area's appeal. If it could be built on the reef with access from Marine Terrace and the Napier Street Car Park I think this could be the best solution of all three but up on top of the sand dunes doesn't appeal to me at all. On the reef it could really expand the use of the beach between Peter's Pool and Eric Street pool. Thankyou for the opportunity to contribute.	
Neither					I don't know if Cottesloe should have an ocean pool - not enough information - just ideas thrown around. Prior to the decision of an ocean pool, a thorough study of the impact on the environment and other activities, eg. Nippers program, should be undertaken by an independent party. This should include examples of other ocean pools. Costings for build and ongoing maintenance should be provided including who is funding this.
Yes	1	2	3	I adore the idea of an ocean pool as it would feel more like the ocean but safer feeling for laps and better for your skin. I think the north side would get used more as its more visible to the public. Also people are used to swimming on the north side already. The north side is more protected from the wind as well.	
Yes	1	2	3	To provide a safe and comfortable place to swim.	
Yes	1	2	3	North of groom is main preference because it is a genuine ocean pool but more protected than south of groom and with good access for all ages.	
Yes	1	2	3	an ocean pool in the north groyne is the best spot. The south groyne area is more rough, rocky and windy. A land-based pool at cnr of Eric St and Marine Pde would be too close to Barchetta (would spoil Barchetta), and would spoil the nice grassy walk paths along Marine Pde.	I am a former resident of Cottesloe (lived on Railway St) and often walked our dog along Marine Pde, so I know the area well. I always viewed a beach pool to be located north of the groyne.

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	2	3	I feel a n th based pool would be the most scenic but would have no objections to a south based pool if it was more practical. A land based pool is hardly an ocean pool. Sydney siders must laugh at Scarborough as they know the meaning of an ocean pool.	
No				Cottesloe does not have the tidal range for a proper self flushing ocean pool as per the east coast of Australia. Any pool would be very expensive to run and maintain.....who will pay? The proposal for a pool at the south side of the groyne is not on. Reef habitat area...unstable limestone shelf that would be expensive and very intrusive to build on. Also very exposed to the sea breeze. Sacred site? The beach is an unstable dynamic environment...very difficult to plan and design with predicted increase in sea level. There are excellent pools in Claremont and Challenge stadium is one wants to do laps.	
Yes	3	1	2	Having a lap pool in Cottesloe will be awesome. Cottesloe really needs to take advantage of its coast and an ocean pool brings people to the beach who don't megessarily want to swim in the ocean. There are so many benefits to this development.	
Yes		2	1	The area north of the groin is a great place already for youngsters and elderly to swim in calm conditions and it also allows all age surfers to use the area	
No					We simply do not need an ocean pool!
Yes	2	1	3	You have not provided a size for option 2, so hard to make an informed preference.	Any facility that upgrades Cottesloe is appreciated. Hopefully if there are training lanes in the pool these will be bookable to avoid overcrowding.
No				1. Do not even consider walling in part of Cottesloe beach. 2. Do not want but wouldn't be the end of the world 3. It's not Scarborough 4. Let's say I acquiesce to a hypothetical majority support - why these three concepts? Why not Chris Shellabear's concept located in the Swanbourne dunes between the Shorehouse and the SAS? Get rid of some of the dirty dune crawlers and use empty area? Yes I realise it's not Cottesloe. Why not Tom Locke/Jorg Imberger/Trevor Saleeba's concept at the Dutch Inn groyne? Why not Shellabear's concept at the golf course? Etc.	See submission
No				Option 4 is missing - NO pool	There should be no ocean pool in Cottesloe due to: 1 high capital costs 2 high maintenance costs 3 storm surges, seaweed and shifting tides 4 Mudurup Rocks Aboriginal heritage area 5 lack of parking 6 extensive cleaning and repair work 7 high running costs 8 rising sea levels 9 Amenities - toilets? change rooms? 10 Safety - life guards? supervision? There should be no ocean pool in Cottesloe in order to retain the unspoiled coastline. Cottesloe is a tourist destination typifying the natural beauty found in WA.
Yes	1	2	3	I would like a proper ocean pool. One actually on the beach, or as close to it as possible. The only difference between the Eric Street and Scarborough pools is that one has ocean water pumped in. It seems a bit token. The North of the Groyne option seems most like a proper ocean pool to me. If there are concerns about lack of facilities then surely this proposal could be modified to improve them. My concerns about the aboriginal heritage area would make South of the Groyne a second choice if those concerns were adequately addressed.	
Yes	1	2	3	A pool inside the groin would be better protected, easier to access and feel more aligned to swimming on the ocean.	
No				What a crazy idea to be promoted in this area of the coast - already the most popular beach in the Perth metro area with limited parking, access, traffic issue in beach season etc. There are many other locations within 5km north and south of Cottesloe if such a pool is really needed, which I doubt, since we are well catered for by existing pools And we should not be interfering with the sea anyway as proposed - maybe a land-based one elsewhere might be acceptable as long as the dunes and vegetation are in no way affected - ie built vacant or land with existing development.	
Yes			1	I don't wish for the beach front to be affected. Leave the beach as it is. Less maintenance on a land based pool ie sand blowing into the pool and upkeep of filters.	
Yes	2	1	3	It would be great to have a Bondi Icebergs experience in WA from s tourism perspective. Locally, having ocean pool will provide valuable year round training opportunities, especially for our junior athletes that would like to take on a long distance ocean swimming event like the Rottneest swim.	
Yes	3	1	2	I think that we should stick with the ocean pool/rock pool concept for Cottesloe. keep it simple and build a basic structure concrete pool that is flushed by sea water. I am not in favour of a pool next to the groyne. Cottesloe is a beautiful beach and we should not mess with or lose this facility. yes I am a very regular user.	
Yes	1	2	3	Option 1 allows safe swimming in natural location suitable for old and young Option 2 requires adjustment to swim in pool rather than in the ocean. Unclear if offensive to indigenous people. option 3 may add congestion to already very busy area.	All require parking rethink given plans to erode current car parks in favour of plants and paths.
Yes	2	1	3	Ocean pool would be unique in WA and become iconic, as in Sydney and NSW. Southside has natural reef area for the pool, it is close to existing amenities, there is existing parking above the site (may need to be expanded, the site has no current use to compete with, it represents a small footprint in what is a very long and largely unused section of coastline. North side of groyne may affect banks for surfing and areas available for public and community use (eg Surf Life Saving Club). Option 3 is a public swimming pool. The Western Suburbs is already well served and over catered for with public swimming pools at Bold Park (2 pools), HBF Stadium (4 pools!)and Claremont Pool (2 pools). It would be unfortunate and an unnecessary waste of public resources if this option is chosen.	
Yes	2	1	3	For option 3, parking will be a nightmare for other users and the area is already congested. For options 1 and 2 it will be beneficial to have it as part of the ocean and will provide a differentiator to the Scarborough pool. Can develop parking closer to the groyne if needed on existing parking areas. Prefer option 2 over option 1 to prevent iconic view changing but still maintain ocean pool.	
Yes	1	2	3	The pool on the south side of the groyne will cop our Fremantle Dr wind during summer and make it unpleasant to swim once that comes in every day. The pool on the north side offers protection from that. It will however cop the winter storms that come from the north, but I feel this will less of a problem. I do not think a pool should be at North Cottesloe Eric St Marine Parade as it will cause congestion problems. Parking needs to be addressed for all the proposed pools.	
Yes	1	2	3	option 1 does not impact on the main Beach area option 2 offers good protection inside the ground, however will occupy a large area of the main beach	
Yes	3	2	1	I'm all for a pool in cottesloe but I dont really like any of these. option 1, takes alot of beach space and ocean space away from the current environment. option 2, south side of the groyne will ruin one of the few surf spots left in cottesloe, as well as ruining the reef habitat by building the pool there it would be constantly hammered by the sw winds and swell. would be fairly unpleasant to swim alot of days in the year.	option 3. looks ok, probably my favorite similar to Scarborough? could be done very well but would take away more parking as well and beach access and it would take away beach space. north cottesloe has no parking as it is. for this pool to work and be popular we would need to build up the north cottesloe beach area, new cafes, restaurants. similar to Scarborough. I'm sure you have people well paid to design and make these things work but lets be honest it will probably never go ahead.
No	3	2	1	Option 1- I am against this option because along with many other people I like to snorkel along the North side of the groyne, around the end of the groyne and a little on the South side of the groyne, if there are no fishermen there. These sections of the groyne are nurseries for young fish and as such I feel should be protected at all times. I am not in favour of having Water Polo there at all. Option 2 - While slightly preferable this option would disrupt the wave action for surfers and destroy a significant part of the reef there. Option 3- OK but not really an ocean pool.	I have concerns as to how all the works to erect any of these pools would impact on the marine environment. One only has to look at the problems with rubble washing ashore on Port Beach to see what kind of adverse affects ill thought out development can have. The coast around Cottesloe does not readily lend itself to the construction of sea pools as in other established locations like Tamarama or Thirroul. Storm waves and tidal changes may make it difficult to maintain such a pool. I would also be happy to see a complete ban on fishing within the Marine Park and especially on Cottesloe groyne.
Yes	1	2	3	Protected ocean pool.	
Yes	2	3	1	The main cottesloe area is already highly congested while Grant st and North Cottesloe sections are relatively under utilised.	
Yes	2	3	1	OPTION 3 allows for the greatest variety of uses and the maximum potential use by clubs for aquatic activities. The undeveloped beachfront at North Cottesloe requires minimal interference with existing uses. The pool would provide a safe environment for all ages at all times.	
Yes	2	1	3	Because I believe Cottesloe is a more family friendly beach	
Yes	2	1	3	Cottesloe main beach has already had a pool in the past and was a great success at that time. The pool at Cottesloe would allow the public to feel the sand as well swim in a safe environment The pool at Cottesloe would have little effect on the sand dunes	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No	1	2	3	The Groyne already provides a natural setting for such a pool. It would be somewhat hidden from the rest of the beach and would attract congestion away from the already busy strip between Indiana and barchetta. Similar for south of the Groyne Please, no more land based development down in the Eric Street/Marine parade area. We do not want a 'city' beach. Cottesloe prides itself on its NATURAL environment which will endure, not its constructions that degrade and come in and out of fashion.	At present, Cottesloe is unique along the metro wa coastline because of its natural beauty. I have watched as City Beach, Scarborough etc becomes highly 'constructed' and in my opinion polluted in the name of 'activation and vibrancy'. There is an enormous value in a tranquil natural setting - as the multitudes of international citizens who flock to Perth and Cottesloe seeking it will attest. There is already insufficient parking at Cottesloe Beach and this will add to demand from additional people who want to use the pool but would not have otherwise used the beach. Swimming pools are very expensive to maintain and operate and there are already several excellent facilities very close by. (HBF stadium, Bold Park Aquatic, Claremont Pool, Scarborough, several private school pools are available for public use, etc etc). Cottesloe should not use rate payers funds to duplicate these facilities. Finally, I hope effects of rising sea levels and climate change are being seriously considered with respect to this idea.
Yes	1	2	3		
No				I have lived in Cottesloe for over 70 years and also a RATE PAYER The reason Cottesloe Beach is so popular is that it is a surf beach and has not been damaged by developers. To put a swimming pool on a surf beach is just stupidity	Those people wanting a swimming pool can just go to Claremont Pool
Yes	2	1	3	Option 2 - is most similar to the east coast. Which is where the allure of ocean pools come from. Also by going south of the groyne you do not change the landscape dramatically as one of WAs most iconic beaches. It would allow safety for swimmers wanting to ocean swimming as well as provide a practical space to do so. Option 1 - Is there a point to having a warespool pool in the ocean? It seems very pointless. Afterall ... what percentage of the population would be interested and use it? Physical location as north of groyne is acceptable. Would like to know proposed distances of the swimming lanes before committing. Definitely being an ocean pool I have a preference for it over salt water. Option 3 - pointless salt water pools on the shore can be anywhere they dont need a beach location. Taking up sand that is covered by beach goes on busy summers. If people just want a pool in the sand they can equally go to one of the many public pools around perth.	
No	3	1	2	The pool should not disrupt the nicer stretches of sand that are already popular. South of the groyne is a little used area where fewer people would be upset by a pool, as long as it isn't as far south as the surf break.	
No	3	2	1		
Yes	1	2	3	Sheltered location. Good access from road. Short walk from my property (Overton Gardens). I would use the pool.	
Yes	1	2	3	Option 1 provides a range of access options, is in the "quintessential" Cottesloe Beach area and takes advantage of existing structures (the groyne).	I am a resident of Mosman Park but I swim, recreate and shop regularly at Cottesloe. Thank you for the opportunity to consider this issue and I hope the fact that I am not a resident but a long term supporter will enable my voice to be considered.
Yes	3	2	1	Location ideal for culture	
Yes	3	2	1		
Yes	3	2	1		
Yes	3	1	2	Option 2. South of the Groyne needs development, North is beautiful as it is.	
Yes	2	3	1		
Yes	2	1	3	Option 2 is the sole option that does not take away limited exiting sea/land that is already in short supply. Option 2 adds to the infrastructure and amenities available at Cottesloe whereas the other options take away. Option 3 cannot be built without major redefinition of the narrow foreshore land and will reduce the openness of the foreshore. Option 1 reduces the existing small beach at Cottesloe and will not help reduce the winter build up of seaweed adjacent to the groyne - it may in fact add to the build up and overflow into the proposed pool.	
Yes	2	1	3		
Yes	2	1	3		
Yes				Eric St is the opening to all of Cottesloe. The pool size is preferable	
Yes				Classic exciting ocean pool experience.	
Yes	2	1	3	Area south of the groyne will add to the amenity of the area rather than taking away from currently utilized area.	
Yes	2	1	3	A pool south of the Groyne does not impinge on the main swimming beach.	
Yes	3	2	1	To optimise potential increase in surfboard riding options in winter. To minimise potential damage to the current Cottesloe main beach surfboard riding wave in winter.	The design of the pool should take in the value added opportunity for creating another, new, surfing option.
No				1. When Cottesloe beach had a pool near the groyne years ago, the upkeep and maintenance proved very costly for the council, hence the Cottesloe ratepayers. Thank goodness it was removed ! 2. If people want to swim in a pool, Challenge Stadium, Claremont, Fremantle all have pools which are close by. 3. The Cottesloe beach area and swimming areas from Cottesloe groyne up to Swanbourne are small and limited compared to other beaches along the Perth, WA coastline and to fill these scarce areas with concrete etc is destructive to the environment. 4. The only shark attacks that have occurred over the past 50-80 years has been when a person has been swimming (a) on an overcast day - known as a 'sharkie day' and (b) during the time (from about October for a couple of months) when whales are migrating along the coast close to shore when sharks follow the whales for a meal. 5. Swimming pools would be more useful to the public who live a lot further inland from the ocean.	
No				We have the ocean to swim in, a pool should be built in areas without access to the ocean. Sharks are not a problem, how many swimmers have been taken off this piece of coastline? It is a total media beat up. It will be a waste of money and an on going cost to rate payers.	
Yes	1	3	2	Option 1 has half the structure already in place thus lowering development cost.	
Yes	1	2	3	Sheltered and will create a good atmosphere	
Yes				Options 1 and 2 are proposed to be located at the Cottesloe groyne which is already a busy and overcrowded location in the middle of summer. Option 3 will spread the commuter traffic throughout Cottesloe beach. Option 3 will be a great landmark for those entering Cottesloe beach via Eric street. It will be the first thing people see as they drive over the hill.	
Yes	2	3	1	Whilst an ocean pool would look more appealing, given the location of options 2 and 3 with regards to Aboriginal heritage, I feel that Option 3 would be the most appropriate and likely to receive approval. As suggested by other residents - an additional option at John black dune park would be good to be considered.	
Yes	1	3	2	It is the most logical choice as the groin would provide major protection to the proposed pool compared to the other 2 options. I would suggest moving option 3 further south to the area in front of Napier St where there is more parking and greater infrastructure for families- playground, larger grassed area. I do not feel that the bottom of Eric St is the ideal place for this pool	Why don't you consider using South Cottesloe groin and build the pool proposed for Cottesloe beach (option 1) north of the south Cott. Groin. This would diversify patrons across the full length of the beautiful beaches and would avoid too much congestion to the main Cott beach area. The area at the bottom of Princes street is well serviced by the near by Mosman park train station so it would not exclude patrons. Parking is also available, but may need to be reviewed to increase the number of car parks available. What is lacking in this area are other facilities: change rooms, toilets, places to purchase refreshment. My biggest concern with option 1 is that it will further congest the already congested main Cottesloe beach area, furthermore this beach already offers relatively good swimming areas all year round, so diversify the options Cottesloe offers to Patrons. Thanks for considering my suggestions.
Yes	1	2	3	Would love an ocean pool but like the idea not having to alter Cottesloe Main Beach or any part of the beach.	
Yes	1	2	3	An ocean pool is much more unique and refreshing than a land based salt water pool!	
Yes	3	2	1	option 3 preferred as it is based clear of the high water mark, willnot alter the sand and wave patterns and provides predictable year round facilities.with good public access and anenities nearby.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No	3	2	1	As a member of Cottesloe Surf Lifesaving Club I feel very passionate about this development. I love the idea of an ocean pool and it would be a great addition and used by a large portion of the community. However, I think the Cottesloe Beach space is already very limited as it is. A Sunday morning Surf Lifesaving club competition is incredibly packed and where the Nippers and younger age groups do their competitions is where option 1 would be built. Forcing them further up the beach and eventually putting us on the reef. I think Option 2 is also a problem as many people use that reef for snorkelling and very close to where many people surf. I think out of all the options, option 3 would keep most people pleased and disappoint few. But I strongly disagree with option 1. I also think Cottesloe is already a flat and very safe beach, and to take that away and replace it with a flat and safe pool is quite pointless.	
Yes			1		
Yes	1	2	3	Location 1 sheltered from the sea breeze. Safe access from road and parking. My property is located nearby (Overton Gardens)- I would use the pool.	
Yes	3	2	1	More space available at Eric street	
Yes	1				
Yes	1	3	2	Option one is preferred as it is the best location do as not to interfere with the look of the main Cott beach & for environmental reasons it makes the most sense. An ocean pool is long overdue. I live in Cottesloe now but an originally from Sydney where there are many numerous examples of successful ocean pools which provide safer alternative for all ages to enjoy the ocean. Please don't delay any longer.	
No	2	3	1	Option 3 has least damage to reef and will add less to traffic congestion than Options 1 and 2. Also, the weed build up is less at North Cott. Option 2 would destroy important reef and the 'Cove' surf area. Option 1 would take away beach area which is already well used by beach visitors, Surf Club, Sculpture By The Sea and concerts.	We already have a great and popular beach which is safe for kids and adults. A pool is unneeded. I'm concerned about safety, security and costs for building and maintenance. How will the natural weed deposits be dealt with? The sands are constantly changing - sometimes the beach is reduced to about half what it can be, as it was in March 2018. Who will be responsible for monitoring and rescue? This would be a huge burden on Cott Council and its rate payers. I don't want a beach pool at Cottesloe.
Yes	2	1	3	The north side of the groyne is already protected and easy for children to swim in. A land based pool is taking up valuable land space.	
Yes	1	2	3	To capitalise on the natural beauty of the area, make it as unique as possible, and not duplicate an effort that is now available at Scarborough.	
Yes	2	1	3	3 is not a proper beach pool. It needs to be integrated with the sea. 1 would spoil an existing very well used beach area, particularly safe for small children and elderly. 2. This would be like the hugely successful and well used rock pools around Sydney harbour, each with its own identity and part of the land and sea scape. Also adjacent to existing well used area north of the groyne and other amenities.	
Yes			1	Option 3 has the least environmental impact and is the only option that I would use on a regular basis. I do not consider Options 1 & 2 at all desirable.	I regularly swim laps at public 50m pools in the local metro area and would dearly love to have a heated 50m pool in Cottesloe. I feel the survey is too narrow and should be considering other locations, ranges of use, changeroom facilities, parking, accessibility, heating and site works & operational costs. In my opinion, the John Black Dune Park, Cottesloe Civic Centre or Seaview Golf Course precinct would be superior options.
Yes	1	2	3	Prefer near groyne NOT North Cott. Too busy up that end of Cott	
Yes			1	I like the 50 cost-who the pools will cater for and the location	
Yes	2	1	3	50m length with no major impact on the existing beach front	
Yes	1			We just need an ocean pool where people can swim and play in. NOT an Olympic pool for lapping. Or playing sport. This does not happen in any other pools around Aust. It would allow disabled and older people to feel a bit more secure when swimming. No's 2 and 3 do not even rate a mention. If you want to go to a pool go to Claremont. The cost to the environment and rate payers would never end with options 2 and 3. No 1 would allow people to enjoy the ocean in all weathers.	
Yes	1	3	2	1-protected from southerly winds/waves, it has a large beach where in winter it does not get eaten away by the surf as much as the other areas proposed Close to parking, grassed area This area offers the most infrastructure to future patrons	
Yes	2	3	1	Very opposed to alerting any of the existing reef, beach, sand but the pool itself is a great idea as the whole area is very sub-standard and lacks any atmosphere and will bring people to the area.	
Yes	2	3	1	Option 2 would impact the surf/surfers south of the groyne (Cove) too much. Happy with option 1 or 3.	
No	2	3	1	The natural beauty of Cottesloe is already appreciated all year round by thousands of people. In summer numbers swell and the place can be crowded. We don't need yet more infrastructure in an area that is already very popular naturally. Put a pool where there aren't as many people already enjoying the beach. Also, the untouched cliffs and reef of option 2 must be maintained for their natural significance and beauty for future generations. One of the most striking things about The Beach from Swanbourne to North Fremantle is the feeling of truly escaping to nature, as a result of the cliffs, reefs, natural landscape etc. this is becoming more rare around the world and will only escalate in popularity as people seek opportunities to interact with nature.	Think outside the box and don't take the easy option of covering everything with manmade surfaces. People appreciate and need nature, open 'green' space. This need is only increasing with the ridiculous trend to urban infill, as population per square kilometre increases. We need to maintain and protect this amazing asset of a largely undeveloped, natural beach and surrounds.
Yes	3	1	2		
Yes	2	1	3	I would love to see a real ocean pool, like some of the great ocean pools in Sydney, and the only option available for this is on the south side of the groyne.	
Yes	3	1	2	Truely an ocean pool without damaging the existing beachscape. It will also provide protection to the adjacent cliffs by moving the sea front bac	Option 3 is ill thought out, its not an ocean pool either. Option 1, why destroy the existing beach and popular open water swimming location.
Yes	3	1	2	The beach space north of the Groyne is already limited with regard to the safer swimming space for families and young children. The shelter of the Groyne plus the seasonal build up of sand in that corner means that younger beach goers have an area of beach that is relatively rock free and calm for aquatic activities. My other concern is who (on weekends especially) will be responsible for policing the pool on either side of the Groyne? Volunteer life savers are already expected to enforce enough council regulations - diving/fishing from the groyne, Climbing/diving on the pylon, dogs, smokers, drinkers etc. There will need to be some kind of increase in Ranger patrols and visibility thru the area to assist the volunteers in their patrol activities.	
Yes	2	1	3	An ocean pool should be an ocean pool North of the groyne is the best spot with the least impact to the reef area	
Yes	3	2	1	Will be much easier for all to access option 3, especially elderly and disabled given it is at street level. It also does not take away from the amenity / beauty of the main Cott beach that option 1 would. Also people using the pool could park in the re-developed Napier St carpark if required so less congestion than if it located at the groyne. I also understand it will not require council funds.	
Yes	2	3	1	I would prefer a salt water pool the chlorine. Seems like a better spot for the pool!	
Yes	1	2	3	In my judgement, the North Cottesloe Ocean Pool proposal is the most well thought out of the three proposals. I have read through the material relating to this proposal and have also asked questions directly of Mr Chris Shellabear. I feel that the location is a good one; and that the proposal has been very well thought through. I was a first responder at the recent Gracetown shark attack at Cobbles Beach. It has had a big impact on me, seeing a shark attack first hand. I strongly support the overall concept of an ocean pool in Cottesloe and I believe the North Cottesloe option is the best of the three options presented.	
Yes			3	Prefer pool near ocean	
Yes			3	Please make this happen	
Yes	3	2	1	the pool will activate an area around north cottesloe (cottesloe is already packed) and is a much nice setting for an ocean pool.	
Yes			1	Offers most aesthetic balanced look for coastline.	
Yes	2	1	3		An ocean pool that is designed to have a positive impact on the quality of surf around it will be a welcomed addition. Having the outer wall and artificial reef angled to generate a point like setup for the incoming swell.
Yes	2	1	3		
Yes	2	1	3		
Yes	1	2	3		
Yes	1	2	3		

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	1	3	#1 would restrict surf club & OWS events & collect the most weed in winter. #3 would cost the most to build & maintain & be a continuing expense for rate payers. #2 would have rocky foundation & would last the longest & need less maintenance.	If you google ocean swimming pools in Uk you will see many examples of pools that are now heritage. Google La Vallette bathing places, Guernsey, Channel Islands, & you will see pools that were built in the 18th century. A gents pool, a mixed bathing horseshoe pool, a Ladies & a children's pool. If a little island can build four pools Cottesloe should be able to build one. Is it necessary to have the black lines on the bottom. Most ocean pools have sand, rock, or gravel on the bottom.
Yes	2	3	1	I am concerned that the pool on the south side impacts indigenous heritage sites. I haven't had enough details about that and would like to know more.	
Yes	2	3	1		
No		1		Number 2 would utilise an area currently not in use and be less obtrusive. More like the ocean pools in Sydney. Don't like the idea of a water polo area in option one or the encroachment into what is a very popular swimming area North of the Groyne. The land based idea near Eric St defeats the purpose of an ocean pool. High expense just to have a lap pool with an ocean view.	Cottesloe doesn't have the beach space and frontage of the beaches over east or Scarborough for that matter. Consideration needs to be given to the encroachment on the beach itself. How will it impact crowds, parking etc. local pools provide enough facilities for those who want to swim laps. Those that want to swim in the ocean already do so. Surely this money could be better spent elsewhere. Some decent toilets and changeroom facilities would be a start!
Yes	2	1	3	As a life saver at cott surf club, I think option one is the best option as the groyne can be used for watching the water in the pool and the ocean. the water north of the groyne is ideal for swimming due to its flat nature, which means that kids will have even more safe zones for swimming.	
No				I do not want any of the preferences. A pool will not protect the people who are at most risk of being taken by a shark - ie, the people who swim across to Swanbourne. Open water swimmers do not swim in ocean pools. The ocean to the north of the groin is usually safe swimming without the need for a pool and as a parent of a nipper I am never concerned for my son's safety. If you want a pool, go to Claremont. This is not Sydney where the coastline consists of bays and the pools were constructed in the 1930s for modesty reasons, not because of shark hysteria.	
Yes	1	2	3	The first option will be unique and bring more people to Cottesloe which is needed for the space.	
Yes	2	1	3	There's no real point to do option 3 as the beach is just there...	
Yes	1	2	3	Locals and tourists head to Cottesloe for the beach, not a land based swimming pool. These are already available in nearby Claremont & Fremantle should people require to swim laps.	The foreshore of Cottesloe beach has become extremely outdated. City beach & Scarborough have been redeveloped to a high standard, with Cottesloe lagging well behind. The east coast has numerous ocean/rock tidal pools that are self cleaning and require little maintenance. They were also relatively inexpensive to build. Given the ongoing concern with shark activity, I'm not sure why this hasn't been undertaken years ago.
No				Too costly to build Last pool at Cottesloe Beach was not used by the public Too costly to maintain seaweed would be a problem All three designs are flawed beyond redemption Better to put the pool at the worst beach in Perth - not the best beach in Perth All three sites will ruin their location There are many swimming pools already for the public Build a kiosk with toilets instead I would rank all 3 locations as the worst choices that could be made at a metropolitan beach	
Yes	1	2	3	An ocean pool north of the groin would provide a safe and healthy facility for all ages. It would have some protection from the SW swell and be able to be used in all weather. Tidal movement would see the pool flushed constantly. The present parking facilities should suffice, as opposed to a pool in the Eric St area, where it's almost impossible to get a parking spot, even in an ACROD bay.	
No				I believe that before a swimming pool is even considered in Cottesloe there are many other things to spend the money on which is more important 1 public toilets near the playgrounds on the foreshore 2 public toilets that are of standard at the main beach 3 bbq on the beachfront 4 alternative activity provision for 12-18 year old eg skate park 5 water drinking fountain in more places 6 upgrade foreshore - Cottesloe is way behind on facilities compared with most others in the metropolitan area - we have a wonderful beach but old tired poor facilities go with it We have a beautiful clean ocean to swim in- if another Olympic size pool is needed build it where the ocean is not near by	
No	2	1	3	option 2 is the only one that will give true ocean pool experience, will flush and have lowest maintenance cost. option 1 will have low water quality and invade existing beach. option 3 is not an ocean pool and therefore should not even be considered.	until the true cost of building a pool and more importantly the cost of ongoing maintenance is known i cant comment further however i think the council should pass on the idea.
Yes	2	1	3		
Yes	3	2	1	The Eric St pool would give year round swimming not affected by bad weather / sea conditions. Will not fill with weed as will option 1 and will not eventually be closed off because of shifting sands. Also I understand this to be a no cost to Council option.	
Yes			1	I think an ocean pool is a good idea and I think options 1 and 2 are crazy.	
Yes	3	2	1	Option 3 is the best esp for parking and access and feels like part of the beach without consuming a significant portion of it. Option 2 - The section south of the groyne is isolated from all the other activities - ie tucked away out of sigh - unless massive redevelopment is undertaken Option 1 impacts negatively the Cottesloe beach itself	
Yes	2	1	3	basically try and avoid a pool north of the groyne as this will take a large portion of a family beach and safe swimming area for children	The state government should pay for this as this will be a whole community pool not one for rate payers to use
Yes	1	3	2	I totally disagree with the location of a saltwater ocean pool even being suggested for the South side of Cottesloe groyne for a number of reasons:- It is directly in line with the full blast of the south westerlies with no evident protection. - It intrudes further onto a clearly identified & registered Aboriginal site of significance, Mudurup Rocks, which lies both under & immediately W of the Cottesloe SLC and SSE of the Cottesloe beach groyne. (DAA files referred to in the Cottesloe Foreshore Renewal Masterplan). - It extends onto the Cottesloe Reef Fish Habitat Protection Area. - It makes no provision for people with disabilities. Where are the handrails, ramps or hoists? - It isolates swimmers from Cottesloe beach culture by separating them from friends & family on the sand & thus with no direct access into the ocean. - It is not clear how this design meets Australian standards for pool safety for children ie pool fencing? - It encroaches on part of the ocean surface used by surfers & kite surfers. Locating a pool South of the Barchetta in North Cottesloe has some of the above problems viz:- It is directly in line with the full blast of the south westerlies with no evident protection. - It isolates swimmers from (N) Cottesloe beach culture by separating them from friends & family on the sand & thus with no direct access into the ocean. Plus it has the additional problems of provision of adequate parking spaces & being overlooked by patrons of the OBH. I am a manual wheelchair user who loves swimming, especially at the beach in summer. I have been a member of the Cottesloe Beach Pool Action Group for more than 15 years (during which time 3 members of the group's committee have died & 5 Town of Cottesloe mayors have been & gone). Various plans have been proposed over these years, but the best from every point of view & one which avoids all of the above mentioned problems is the one located on the N side of Cottesloe groyne with shark protection, natural sea water flushing, not subject to sand or seaweed drift & geothermally heated.	
Neither	3	2	1	Best location	
Yes	1	3	2	I like the inclusion of water polo facilities in addition to the pool.	Having travelled to Cairns several times and seeing the impact that a community pool has on a waterfront area, I am excited to think that Cottesloe could enjoy similar facilities. Cottesloe is long due for a revamp, and I welcome any form of development of the foreshore to make it more accessible and user friendly for the residents as well as visitors to the area.
Yes	2	3	1	It will be a great addition and attraction for Cottesloe and the community.	
No	2	1	3	South of the groyne could be a maintenance-free pool (except for removing excess sea weed). It would require no pumps or powered infrastructure and be fully sustainable. Natural ocean energy and wave action would continually flush a well designed pool. Option 1 (north of groyne) could interfere with surfers areas and that the right hand surf break. It would also probably not have as much natural flushing by wave action and could accumulate more sea weed. Option 3 is a definite NO. This entails powered pumps and continual maintenance and running costs which is ridiculous when we are right next to the ocean. Scarborough have one of these already and if people want that option then it is a few minutes drive away. Why duplicate?	I don't believe there is a need for an ocean pool but if the majority want one then it should be south of the groyne. It should be completely maintenance-free as per the Sydney ocean pools that are flushed by natural ocean water movement and require no pumps or powered infrastructure.

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	2	3	Protected from wind and weather (waves). Easy access. Self cleaning. Low maintenance. The other two would have a lot of problems. No. 2 more exposed, more expensive to build and maintain, while No. 3 may also need fencing, and has no privacy from overlooking buildings. Both would suffer from strong winds.	There is no point in spending any money on the beach or pool if you allow the premier to have his way, and put up highrise beachfront buildings which would put shadows all over it like Scarborough (see enclosed paper cuttings)
Yes	1	2	3	ocean pool would be a massive attraction and fun	
No	1	3	2	The sheer ridiculousness of this proposition baffles the mind. It's a pool, where the sea is. What a colossal waste of money. And yes, I realise the developer gets free land and public money, so someone does get to make a lot of money out of it, but we're just getting sold on snake oil here. The environmental impact will be high, although I know the current cottesloe council is largely and actively anti-environment. Show some common sense and make the right decision. Cottesloe always tries to "be like other places" without realising that what we have is already special and unique. It reminds me of La Jolla 15 years ago before their council started making decisions like this and now no one likes it anymore.	
Yes	1	2	3	I prefer to swim directly in the ocean. This option is closest to that with the safety of an enclosure. It is also the most accessible for the elderly and disabled.	
Yes	2	3	1	Options 1 and 2 are not practical. Both will destroy existing surf spots - Cove and Cott Main. Option 3 is the only practical solution. It also has the potential to be able to conduct championship events for both surf and pool life saving. Option 3 adds to the amenity of the largely forgotten node at Eric St.	
Yes	3	1	2	I would utilise a land based pool more than an ocean pool.	
Yes	3	1	2	Aesthetic	
No	2	3	1	Minimise impact on the ocean area, minimize disturbance to marine life, minimize impact on surfers and swimmers.	An ocean pool is not necessary. The upkeep will necessitate entrance admission, and the pool will be as warm as the ocean. There are plenty of aquatic centre's nearby. Please do not over develop the beach, it is a precious resource.
No	2	3	1	Far away from cottesloe beach!	If you need to do this, look to Bronte baths as a good example. Then look at Clovelly baths as a bad concrete example and Bondi baths as an exclusive (and not inclusive) example.
No	2	1	3	There is already limited space on the land on Cottesloe beach during the busy summer months. The current water play area next to the groyne is beautiful open space and Cottesloe beach is very special because of these simple features of nature. It's uncomplicated and relatively unchanged by humans. Don't fix what isn't broken! Also swimmers can already swim casually, they will be pushed into more cramped areas	
Yes	3	1	2	More like sydney ocean pools and hopefully cheaper to maintain over time South of the groyne whilst exposed will keep the beach on the north side	Thanks for opportunity and watch the costs
Yes					
No	3	2	1	It is not necessary and would not use it, and as a rate payer it's a no. No pool near the groin for environmental and aesthetic and maintenance reasons too.	
No	2	1	3	If an ocean pool is to be forced upon the residents, it should be in an area which will cause the least disruption to the local area and residents	As a long term resident of Cottesloe I would hate to see this become an exclusive venue for some of the local residents. The area already boasts pools at Clarendon, HBF Stadium, Bold Park and Fremantle I feel the suburb of Cottesloe does not need an ocean pool to add value to what is already a wonderful beach, and the Council would be better served spending ratepayers monies upgrading the beach front precinct BUT keeping in mind the residential ratepayers and the impact any future development can have on their lifestyle.
Yes	2	3	1	I believe Option 3 provides an option which is more integrated with other beach uses. I think Option 2 is too 'tucked away'. I think that weed etc. may be a problem with Option 1.	
Yes	2	3	1		
Yes	1	2	3	Option 1 makes use of existing infrastructure, it can be accessed from the beach. The northern side of the groyne is better protected from rough weather and can be used year round. It is free it has a shallow entry Its position is in the same area as the previous pool	
Yes	1	2	3	The construction of an ocean pool on the northside of Cottesloe Groyne will become an iconic tourist attraction and provide another valuable amenity to the locals.	
Yes	1	2	3	I prefer to swim in the ocean. If it's going to be done, do it well. If there was a swimming pool out of the ocean I wouldn't use it. Better still would be a net barrier without any lanes at all for a true ocean swim.	
No				Option 1 would ruin the groyne swimming area and destroy the 'naturalness' of the beach which is a big tourist attraction. Option 2 destroys reef area of which there is precious little left along this section of coast. Option 3 could work as it is off the actual beach but would probably present major traffic problems. I can't see the necessity for an ocean pool. It is far more pleasant to swim in the ocean and swimmers need to learn to be very mindful of the presence of sharks and adapt their swimming habits accordingly. For those who want to swim laps there are numerous Olympic swimming pools in the area. If people really want an ocean pool something north or south of City Beach might be a better location as there is a lot more beach space for a pool and for parking.	
Yes			1	Pool looks incredibly useful and attractive to the local community and will encourage development along the entire cottesloe coast, providing amazing opportunities for new business. Will enable salt water swimming all year round and whatever the weather.	
Yes	3	1	2	I like the idea of an ocean pool on the southern side of the groyne as it would be similar to the ocean rock pools along the Sydney beaches which are great to swim in. A pool north of the groyne should not be considered. It would take up too much of the natural swimming area of Cottesloe Beach. The land based pool near Eric St would not be an ocean pool as such, but it would be better than nothing. I note the success of the pool at Scarborough Beach.	
Yes			1	Best location	
Yes			1	I believe that a pool on the beach will be very disrupted with winter weather and land based makes more sense.	
Yes			1	Best location. The other locations don't make sense and damage the existing ecosystem.	
No	1	2	3	I'd prefer no pool, i don't feel confident that they will work long term.	I'd prefer no pool, there was an old pool that was empty for so long, please consider the environment, the seal that hangs out, the reefs and the dunes.
Yes	3	1	2		
Yes	1	2	3	Option 1 is the most sensible and simplest concept that involves actually swimming in the ocean with safety.	
Yes	3	2	1	Option 3 provides an excellent gateway to the coast on Eric Street. It is central to the 3 surf clubs in the precinct. Places the pool at a higher elevation than the other options. Option 2 will probably disrupt the surfing amenity south of the Cottesloe groyne. Option 3 will destroy the best swimming part of Cottesloe Beach. Why lose a magnificent natural asset to gain another asset, when we can have both.	
No				Do we want a SURF & SWIMMING BEACH ? - Our Family Does We don't want a swimming pool We want a beach We live in Cottesloe! Outsiders want to destroy Cottesloe	Cottesloe ratepayers are being ripped off
No				Parking is an issue, and the problem will only get worse after the No 1 car park is closed later this year. The pool like the ocean will get little use in the cooler months unless it is heated, adding to running cost. How is erosion of the beach going to be addressed to reduce damage to a pool? There are a considerable number of swimming pools in the western suburbs already do we really need another one? I believe a better location would be the golf course/rugby oval sports area.	
Yes	2	3	1		
Yes	2	1	3	I believe Option 2 would have the least effect on the outlook of Cottesloe beach.	
Yes	1	2	3	Option 3 is not an 'ocean pool' - It is a pool near the ocean. There are sufficient public pools in the Western Suburbs. The need for an ocean pool stems from a desire to be able to swim in the ocean without fear of sharks. Whilst I have listed my preferences in order of ranking, my real preference is for a shark barrier similar to that which has been installed at Sorrento, Coogee, Dunsborough and Middleton Beach in Albany.	
Yes	3	2	1		
Neither			1		
Yes	2	1	3		
No				Pull down the Cottesloe Police station which is not used Put a pool in there	Most of the people wanting the pool are not Cottesloe Rate Payers

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	3	2	The best part of an ocean pool is that it is full with ocean water. Why have an chlorinated ocean pool just to be next to the beach for the view. An ocean pool should be incorporated into the ocean or else have Claremont pool.	
No				An ocean pool will reduce the space of beach that is already crowded on busy summer days. If you want to swim in a pool go to Claremont. Having a pool will affect the surf at nearby cove surf break. If you go to the beach you go to swim in the ocean, not a pool. We already have an ocean pool at Scarborough that is enough.	
Yes	3	1	2	Option 2 is the most dramatic and courageous! Although more susceptible to the sea breeze, a pool experience in the sea breeze is quite different to the beach experience. At 50m, this pool will appeal to all grades of swimmers. Option 1 is least desirable due to uncertainty of impact on the main beach (including views); the requirements for ongoing maintenance and cleaning; uncertainty about the water flow; and being only 25m. Option 2 could be very costly in the long term with impact of beach erosion. Parking in this part of Cottesloe could become a nightmare when the pool is in high demand, impacting on residents and businesses.	I'm in absolute support of an ocean pool as a wonderful new amenity for Cottesloe and surrounds.
Yes	2	1	3	1. More natural surrounds and similar to a proper salt water pool 2. Less parking congestion 3. Cheaper and more economical 4. Option 3 would be preferable except there is no parking, its very congested already and there would be untold damage to the dunes.	
No	2	1	3	I don't want the natural beach landscape altered by man made structures.	
Yes	2	3	1	I see problems with location on heritage site	In Copenhagen harbour the pool floats in the water on a metal permeable mesh---could this be considered for option 1?
Yes	3	2	1	I think the pool will be used a lot and 10 lanes would benefit this. I also like the idea of the land based saltwater pool. I think that will be very popular.	
Yes	2	3	1	Safety and all year round ability to swim in salt water	
Yes	2	3	1	North Cottesloe surf club is one of the largest surf clubs in WA. The swimming facilities offered at the ocean pool will be well used by north cott's members. The north cott community will also welcome everyone that uses the pool. North Cottesloe surf club also has a training program- the Tim Roberts surf sports academy. This academy bring young life savers into the sport. Having the ocean pool at north cott will allow academy coaches to enhance our swimming fitness and technique within the academy.	
Yes	1	2		An ocean pool would be fantastic for those of us who like to swim in the ocean. I have been to the Scarborough pool located adjacent to the ocean and found it pointless. The infrastructure surrounding the pool just wrecks the location.	Great initiative.
Yes	2	3	1	More centralised, better accessibility, not affected by rough seas	Absolute boon for young and old No seaweed No stingers No sharks
Yes	1	3	2	Natural topography and space at Cottesloe beach north of the groyne. Both 1 and 3 naturally have access to the sea.	
Yes			1	I like the idea of the North Cottesloe pool bringing some of the focus of Cottesloe to the North and removing some of the congestion and development from the groin, tea rooms area. I think it will spread the Cottesloe focus well. I like the idea of a sea water fed pool and am very against a chlorine pool by the ocean - although I don't know that any of these options are proposing this like the Scarborough pool.	
Yes	1	2	3	North of the groyne will be the most visually appealing and is the most suitable position in my opinion. A land based pool defeats the purpose of an ocean pool	
Yes	2	3	1	Access to Option 3 will be absolutely brilliant and provide another landmark along Marine Parade. Its proximity to a number of local cafes, restaurants and other amenities would benefit the community. Further to this, it would attract investment and people from the greater Perth area as well as interstate/international travellers to this precinct. Being up and away from the ocean would provide some respite from the howling southerlies that pummel the Perth coastline. Option 1 would be suitable but I feel that access to Option 3 would be more convenient. Option 2, being on the southern side of the groyne, would be completely open to the elements and when the Fremantle Doctor kicks in it would be essentially unusable.	An ocean pool would be a great addition to Cottesloe and it would greatly benefit the local community. With the thought of sharks being at the forefront of many people's minds, the option to swim in a saltwater pool close to the ocean would be alleviate many people's concerns.
Yes	2	3	1		
Yes	2	3	1		
Yes	3	2	1		
No	3	3	3	Why cant people swim in the Ocean? You will ruin the natural environment, particularly for surfers who use that beach all year round! If you wreck Cove and seconds, Cott main, three of the already crowded few surf breaks in the area it will be detrimental to the health of both young and old who currently use it	Is the need to build this because of Sharks? Fix the problem. Nets, smart drumlines This is a massive expense that will serve only a few
Yes	3	2	1	Will not be affected by heavy storms, as seen on the east coast with animals washed into the pool and sea bed damage. Option three spreads out the amenities within cottesloe and is near Napier street parking. This provides the best option as funding can be gained to complete with his process. Options 1 and 2 appear to be open to storm damage and also interrupts aboriginal heritage land.	Option 3 still allows use of the pool when the oceans conditions are rough.
No	3	2	1	See above: I don't want a pool.. I terms of the ranking, it's a case of least worst option in terms of destroying what is already there.	Sorry, but this is a very poorly designed survey. There is no way a small town like Cottesloe can afford this. Who will pay to build it? Even more importantly, who will pay the running costs? It better not be my rates.
Yes	2	1	3	south of the groyne would impact the existing area the least	
Yes			1	Option 1 will consume Cott Main. Option 2 will upset the Mudurup Rock crowd and will require regular shutdowns for cleaning and draining. Option 3 will be self funding. It will be an iconic oceanside pool capable of hosting international events.	
Yes	3	1	2		
Yes	2	3	1	Option 3 makes best use of the land. Option 2 is environmentally disastrous with destruction of important marine habitat.	
Yes	2	3	1	Proximity to a surf club will maximize use of the pool. It's proximity to the cafes and bar at Eric street is also attractive. This would be preferable to disrupting the iconic views at the groyne.	
Yes	3	1	2	I believe the North Cottesloe option is the most viable and less invasive to the ocean itself. Being built on land is that already heavily under-utilised, this provides the community with much needed upgraded infrastructure. Also the inclusion of a Waterpolo pool is very likely to bring numerous international events and tourists to Perth. I also prefer option 3 from an accessibility point of view; it will enable universal access and inclusion for all regardless of ability. The other options are far less accessible or viable for people with limited mobility.	
Yes	3	1	2	The location is the best if these are the only locations Have issue if any impact to the environment Option 3 - imagine the traffic in the area over summer with 4 or 5 cafes, OBH, Surf Club & Nipper activity plus the residents trying to gain access to their properties! Option 1 - will kill the surfing and significantly change the beach & sand deposits	I di think a pool is brilliant and having lived in Sydney (1992-2008) I have swum in every ocean pool from Tweed Heads to Merimbula & was accepted as one of the inaugural womens group to join the Bondi Icebergs Winter Swimming Club. I would like the proponents or the Council to consider options I would like you to review the location of the pool located on the rock reef between Cronulla & North Cronulla. This pool is surrounded by man made walls over a natural reef, similar also Wylies Baths at Coogee NSW, Mahon Pool Maroubra. All 3 face south and are natural cleaning via tidal movements. The location I would like to see this pool is at/adjacent to Peter's Pool, opposite the carpark and opportunity to construct a community amenity with toilets/showers/accessible and a coffee cabin.
Yes	3	2	1	Option 3 is closer to my house. Parking is easier at North Cott. A bigger pool can service more of the community.	
Yes	2	3	1	Option 3, as the Cottesloe North and South of the groyne is overcrowded already, whereas North Cottesloe is hardly utilised by comparison	
Yes			1		
Yes	2	1	3	50m lane length is essential for me as a swimmer. Waves crashing over the rock wall are fun for kids. Dislike Option 3 as it isn't a true 'ocean pool' experience, and too close to the OBH.	Must have floodlights for night use. Just get it done. It will be the start of many ocean pools along the Perth coast.

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	3	1	Option 3 is favoured as it; (A) Appears to have the least impact on the marine environment. (B) Has the least exposure to wave and swell conditions. (C) Does not impact the marine park and/or aboriginal heritage site. (D) Is closer to parking for visitors; and (E) In activating more of the coastline it spreads the load rather than increasing pressure on the main beach/groyne area.	I have believed an Ocean Pool was needed in the Cott area for many years and always assumed that the locations for Options 1 or 2 were the logical choices. However, after considering the Pro's and Con's as outlined on Councils website it became apparent that Option 3's location was the better choice. While I recognise that all three options would have substantial establishment and ongoing maintenance costs I am confident that each could be successfully funded if approved. Finally, looking at all contingencies, it would appear that only Option 3 would allow a relatively straightforward return of the area to its "natural" state if in time it was decided for whatever reason to cease operations. Thank you for the opportunity to contribute.
Yes	3	2	1	The groyne area part of Cottesloe is already the busiest and without further car parking and public transport options I question the capacity to cater for members of the public. Great if you live in the streets around there and you can just walk down, but if you are actually building a facility for the whole community a parking/transport plan needs to be part of the design.	
Yes	2	2	1	Option three can be used all year round as it will have sea water but not be affected by inclement weather.	
Yes	2	3	1		
Yes	3	2	1	I LIKE THE OPTION OF NUMBER 3 THE BEST BECAUSE OF ITS POSITION	
Yes	2	3	1		
Yes	2	1	3		
No				We do not think any pool is necessary, leave the public to swim in the ocean, which cleans itself. If you install any type of pool, Cottesloe Rate Payers will have to pay for maintenance ie heating/cleaning etc. Please disregard all reference to installing a pool. Public are services very well in Fremantle Aquatic Centre/Claremont Pool and the Rocky Bay pool, we do not need another pool in the Cottesloe area.	
Yes			1	Putting the pool near the NCLSLC allows for bigger utilisation of resources. Cott SLSC is quite often already at capacity on 'big days' and adding another attraction to their area could quite easily push them beyond breaking point. North Cott already has infrastructure in place to cope for an influx of people using the beach area and would be able to deal with it in a safer manner than Cottesloe may on busy days	
Yes	2	1		Ocean pool is the least intrusive and reflects what is been done on the East Coast and is therefore a "proven solution". No 3 is not listed by me as a preference since this proposal is hideous and highly invasive to the current environment. Looks like it is driven by commerce and private profits - not the community in mind!	Simple is good!
Yes	3	2	1	Option 3 provides the opportunity to bring other events to it as well as have a world class facility. I think the other options may change the beach more as water is diverted around the ground. A solid structure could lead to more erosion of the beach.	
Yes			1	North cott is a perfect place for the pool. South cott already has a secluded swimming area sheltered by the groyne and it's already too busy up that end of town. Spread out the people	
Yes	1	2	3	An ocean pool would be nicest in the traditional landscape of Cottesloe	
Yes	2	3	1	Location and ease of use is only practical with option 3. Options 1 is in a well used and popular area for tourists and outer suburb patrons. This area is already relatively protected and does not need a pool. Option 2 is used by surfers but otherwise is not in an area accessible with parking or for locals. Option 3 is ideally located and will make great use of space and appeal to locals, tourists and other patrons. Option 1 also significantly affects landscape of cottesloe beach which is not preferable to alter arguably perth's Prettiest beach.	Option 3 is ideally located but obviously will be high cost. Why couldn't an ocean pool be built in the north Cott precinct? I assume this was considered as part of all proposals. There is less used beach space between Cottesloe and north Cott and again north of north Cott beach. An ocean based pool (if cheaper than a land based pool) would also appeal in this region.
Yes	3	2	1	Safer swimming environment for our community Doesn't change the iconic landscape of Cottesloe beach and the groyne	This would be a great facility for the community and the general public. Increase the health and well being of the community and increase amount of people swimming who may not swim in the ocean due to the increased risk of shark attacks - Scarborough Beach Pool has done an incredible job with their new pool. Hopefully the council will speak to the City of Stirling and gain an insight to help understand the complexities of such a development.
Yes	3	2	1	Does not interfere with the beach. Makes good use of vacant land...broadens the board walk. Is not subject to seasonal variation. Is not subject to weather conditions. Is closer to parking areas. Is non destructive environmentally. Less maintenance cost. Less controversial.	
No					
No				I don't think any of the options provide sufficient benefit for the potential risks environmental, geotech and coastal engineering. I enjoy swimming in the ocean at both Cott and North Cott	
Yes	2	3	1	Visual amenity Crowding location Parking, traffic distraction Public transport issues Cabanas Shade,overshade Wind Drilling artesian well/bore	
Yes	3	2	1	#3 is more likely to have year round use #1 will disturb surf break #1 & #2 have no facilities	
Yes	3	2	1	Swimming experience of option 2 seems best. Option 3 is a good alternative (if heritage concerns prevent option 2 from going ahead) - proximity to existing amenities is a plus.	I'm a Cottesloe resident.
No					
Yes	3	2	1	great location and the best idea	
Yes	1	2	3	provides everything for everyone.	
Yes	1	3	2	As a former long term resident (1951 - 88), I would prefer the ocean pool north as it's a more aesthetic choice. The land based option has a more family friendly appeal and the south preference is not very inclusive.	My family connection with Cottesloe began in the 1890s and concluded in 1984. My father, Arthur Pearce, was an east ward councillor (1959 - 1974) and deputised for the mayor on numerous occasions. His view was against big changes to Cottesloe's traditional aspects.
Yes	1	2	3	Utilising underused space best in those locatiobs Ocean pool preference	
Yes	3	2	1	Prefer to have pool away from the beach.	
Yes	3	2	1	Better integration with the surrounds and facilities Promenade and marine Parade landscaping smart idea North of Groyne bad option as replaces wonderful existing feature South of groyne remote from facilities If Cottesloe surf Club developed a interested club and public outlet like Blue Duck and Nothe Cott, it would be more appealing Cottesloe surf Club needs to be looked at seriously in any future plans. They are holding back this area , and should be called to task A pool is a must...somewhere.. please	Please don't remove car park in front of Cott Hotel unless you have a firm fix on parking on a summers day, or any day for that matter I don't think parking in the streets is an option at any cost
Yes	2	3	1	Land based pool won't impact the surfing, bodyboarding and other surf craft utilising the beautiful beaches. The foreshore is under utilised, and this would be a fantastic way to utilise this beautiful stretch of coastline, whilst not taking away from the natural beauty.	
Yes	2	1	3	The pool is real, salt water that wont impact on marine wildlife, beach space. It is the only natural solution. That pool would make Cottesloe a world class destination. Just like Icebergs in Bondi.	Who would want a pool on a busy intersection near the road opposite a rowdy pub?? It doesn't make sense.
Yes			1	Best by far.	
Yes	2	3	1	The best part of the beach I feel is along from the Tea Rooms to the blue duck. This needs to be just beach.	
Yes	1	3	2	Still involved with the main beach. Less disruption to reef. Can keep fishing south side.	
Yes	3	2	1	Option 3 gives better use in bad ocean weather and will blend into the surrounding beach area.	
Yes	2	3	1	I think option 3 would be the best option as it would have the least impact on the environment. Options 1 and 2 are definitely a problem with the impact of the ocean already proving damaging and showing an imbalance in both those areas'. The shoreline north of the mole has shown a massive erosion issue and south of the mole the incredibly strong wind problems would make the ocean pool less user friendly. It would provide a more even balance for the area if it was located at North Cottesloe. Another important issue, if it was situated at North Cottesloe there are more parking options.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No				As can be seen from the above, my preference is for No Pool. As a regular summertime swimmer at Cottesloe beach, I take great pleasure in seeing so many others enjoying everything our beach now offers - grassy shaded areas for the many picnickers, wonderful clean beach sand and above all a beautiful ocean, just right for everyone, from young children jumping in the wavelets to fit people doing lengths from the groyne to the pylon, and everything in between. It is a perfect and very much used place just as it is. We are privileged to have it. My husband and I attended the presentation on the evening of July 19th and were not impressed. I have not seen the brief given to Admission but I gather they were asked to assess the suitability of 3 positions for a pool, put forward by 'some individuals'.	It was clear from the presentation that they had done virtually no research around the bare bones of the task, seeming to know nothing about Mudurup Rocks and the area's significance, for example, or anything about the Reef Protection area. I was annoyed to find that this 'study' had been at a cost of \$100,000 and sincerely hope that my rates were not used for this, to satisfy the demands of a persistent lobby group. I am also surprised to find that anyone in Perth can comment on this proposal - presumably then the wishes of Cottesloe ratepayers and regular beachgoers can be swamped by those of people who seldom if ever use the beach, but who have an idea or feeling that an ocean pool might be nice. I find this outrageous.
Yes	2	1	3	The best option is to have the pool at Cottesloe, not Eric st as there is less parking and not very accessible for people taking the train. South of the ground with lanes for swimming and a leisure pool is best. A water polo pool is a nice idea but will only appeal to a small population of people who play the game. Definitely option 2 pool is best fit and way overdue.	
Yes	2	3	1	The north cottesloe beach is currently poorly designed and often loses most of the beach during winter This would provide a swimming option year round and visually look great	
Yes	2	1	3	1 South of groyne will not spoil the cottesloe main beach 2 North of the groyne wrecks cottesloe main beach 3 land base pool just doesn't have the room to fit it	
Yes		1		Option 2 provides a real sea pool. Option 1 will take up too much of the protected beach which is enjoyed by many who simply want a beach experience. Option 3 is not attractive as it is away from the beach area and appears to be promoted by land developers for personal gain, not something being motivated by beach users. The Sydney beaches rock pool model is my preference.	
Yes	3	2	1	Take the opportunity to make Cottesloe beach front world class. Closer to the action and parking.	
Yes	2	1	3	Trevor Saleeba's design is magnificent towards providing a safe ocean pool area in Cottesloe. The area is a hot spot for activity during the summer days, the location of the design will attract many people.	
Yes	2	1	3	I would prefer it to be an ocean pool not land based I would like to preserve north of groyne for ocean swimmers who need protecting from waves eg young and elderly I am however concerned about aboriginal issues- I have heard south of groyne may be a problem in this regard.	
Yes	2	1	3	I want to be able to swim laps and I chose the option I believe fits best with the environment with minimal impact	
Yes	2	1	3		
Yes	2	1	3		
Yes	1	2	3	I think that there is ample room & I don't want to disturb the reef on the south side.	Go big. Perth is only getting bigger. Let's accommodate for the future not just for our current needs.
Yes	2	3	1	Spreads the people along the sea front rather than everyone vying for the groyne area. Hate the thought of lane pool and water polo most people go to the beach for recreation not regimentation. Let's relax and let everyone play with kids in Cottesloe, let's have fun, no lanes who goes to the beach to lane swim. Make an online survey. If you want to lane swimming go to Claremont it's 3 minutes in the car, HBF or Scarborough. The pool south of the groyne would get absolutely battered by wind, get weathered very quickly.	
Neither	2	1	3	Option 2 is best as Option 1 would remove the protected area where young kids can play in the shallows and further out would get in the way for surfers. Option 3 is too similar to the new Scarborough pool and it would be nice to have an ocean pool instead.	
Yes	2	1	3	Number 2: Disability access No impact on surfing Best option for minimal impact on beach	I am a Cottesloe resident and swim at the beach daily.
Yes		1		Option 2 and option 3 would encroach on the existing leisure areas enjoyed by the public and by club members from both surf clubs. Various existing "land based" pools are available within 10 minutes drive from Cottesloe for those not wanting to experience the "real" thing in the surf at the "beach". Save the beauty of the existing coastline between the groyne and North Cott... an iconic area.	
Yes		1		Options 1 and 3 - no ranking as I do not consider them a viable option. It should be an "ocean pool", that is carved out of the existing rock/reef, natural like the many on the east coast. I believe much of the interest for a pool is from people who believe they are getting an ocean pool, not a swimming pool at the beach.	NOT an 8 lane international swimming pool like that built at Scarborough (options 1 & 3). This would be too expensive to construct and operate and would place an operational cost on Cottesloe Council that it cannot afford. It should be a small rock ocean pool, maintenance free with NO ongoing staffing levels - what so ever.
Yes	3	1	2	Option 1 is horrendous and will completely ruin the beach, the horizon view and will fill of weed and become stagnant. Option 3 is not a proper ocean pool and will ruin the fluid appearance of Cottesloe. Option 2 is a forward thinking, ecologically sound, accessible option with design forethought, many facilities for serious swimmers, recreation, kids. Will add so much to Cottesloe without any impact on the existing beautiful beach and how people use it.	Option 2! Please think carefully here, and see the vision that could quite simply be incredible for Cottesloe residents and visitors. Also has considerable private financial contribution pledged already!
Yes	1	2	3	1 - Like the ocean swimming experience and protection from sea breeze 2 - Same as 1, like the ocean swimming experience, which is similar to the pools at bondi/bronte 3 - still great concept but not really an ocean pool. Do love the proximity to parking though	
Yes	2	1	3	I believe it is much more unique to have an ocean pool and will make Cottesloe an iconic beach not only in WA and Australia but around the world. There are plenty of saltwater pools around but actual ocean pools are a lot more unique and special	
Yes	3	2	1	North of the groyne is currently a relatively protected area suitable for young children and seniors and construction of a pool here would change the currents at Cottesloe Surf club. South of the groyne is a marine park protecting fish etc, and this should be kept. A sea water pool south of Barchetta would not interfere with ocean swimming for those who choose this, but would provide a safe place to swim in a salt water pool. Parking is going to be a problem for all three options.	
No	3	1	2	The Cottesloe Beach north of the Groyne is renowned for its current non structure, it is iconic as is, it should not be interrupted. If any pool is considered it should be a rock formation built as in NSW into the shoreline, not on the north of the groyne area. It should not be in any current land area. Residents wanting this type of pool should use the Challenger/HBF stadium If Council want the residents to have a pool with training facilities on land why not give a contribution towards HBF stadium memberships for pool usage.	
Yes	2	3	1	Eye sore having anything north of the groyne	
Yes	3	1	2	Option 2 for minimal impact on the environment and existing beach, swimmers and surfers.	
Yes				1 Most advanced proposal & best for the community.	
No				I have No Preference as I consider an Ocean Pool in Cottesloe to be totally In appropriate.	I consider myself to be a frequent user of Cottesloe Beach both summer and winter and very familiar with the Sea and Beach conditions experienced, particularly during heavy storms. The Survey carried out highlights the Problems and costs associated with all Options. Due consideration should be taken of the International & Australia wide Reputation of Cottesloe & its beach. I personally know many Europeans who visit annually primarily to enjoy this iconic Location. It can be assured that construction of a "POOL" will irreversibly change this fragile environment. If a Saltwater pool should be developed in the Western Suburbs it would be my suggestion that it be located on a Greenfield site Around Leighton or North of Swanbourne where a total complex may be developed with suitable Car parking and all other facilities.
Yes	2	1	3	Reason for preference most sydney beaches have had ocean pools for decades. Town of Cottesloe needs to explain to rate payers what is different between sydney and perth beaches to prevent a feasibility study from progressing.	
Yes		1		Like at bondi it would be awesome to feel like your swimming in the ocean but safer. I feel the south side is just beautiful and peaceful with all the coral there and is away from the hustle and bustle of the Northside.	
Yes	3	1	2		
Yes	3	2	1	Option 3 is the preferred option because it avoids the issues of congestion, native heritage and sustainability.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes			1	Option 2 seems to be the most logical option in terms of a true ocean/rock pool but I am not convinced that it needs to be as large as that proposed. I have not ranked either of the other 2 options as I do not want to see either built, I do not see them as a true ocean pools but a swimming pool next to the beach	One of the most talked about feature of Cottesloe Beach is its wide expanse of beach and relatively safe and protected water, particularly closest to the existing groyne. Option 1 would have a significant impact on this aspect of the beach taking up a large part of what is probably the most protected and used section of the beach/water. This option, with its size and location would also have a significant impact on all existing activities. Option 3 is not an Ocean Pool but a swimming pool next to the beach. As far as I am aware there is no Cottesloe Water Polo Team so what is the justification for building a water polo pool?? When this subject is discussed I think most people envisage the more "natural" rock pools that exist in the eastern states, particularly in the area between Bondi and Manly. I think Cottesloe Council should have asked the first question "Do you want an ocean pool?" before going to the expense of commissioning a report as, if the majority answer No then I assume council would not take the matter any further?
Yes	3	2	1	A land based pool located in the vicinity of the Eric Street and Marine Parade intersection provides an opportunity for a gateway experience for the beaches of Cottesloe. The area is serviced by the Napier Street car park.	
Yes	2	3	1		
Yes	1	2	3	I feel that option 1 provides the best location for an ocean pool	
Yes	2	3	1	Our family have utilised ocean pools in the Eastern States previously and have loved the experience. We have also frequented the ocean pool at Scarborough beach, which is the best pool we have trained in to date here in Perth. A land based saltwater pool would be an amazing addition to our local area. I believe North Cottesloe is also the best option from an environmental impact and traffic congestion perspective.	
Yes	1	2	3	South groin perfect spot, no interference with beach	Mort will muck up children's beach area
Yes	3	1	2	option 2 is most like icebergs	
No					In addition to the initial capital cost a public pool is a big ongoing cost centre for a small local Council such as Cottesloe. In addition, issues such as parking are likely to cause major problems when it is located close to the beachfront. Thank you for the opportunity to comment.
No	3	2	1		Really looking forward to it, good luck
Yes	2	1	3		
Yes	2	3	1	Option 3 provides the most accessible option, in an area that is not as busy or high usage with beach users as Options 1 & 2.	
Yes	1	3	2	I like option 1 the best because it gives enjoyment to the largest variety of people. Especially room for kids in the sand/waters edge. I feel the other options won't be as family friendly, will require more maintenance and look unattractive/not natural/in-theme. But I'm against any area for water polo and I'd prefer no ocean pool at all, than one that has an area for water polo. I think a water polo area would detract from the beauty of Cottesloe beach and as a landscape photographer this is unacceptable. Cottesloe beach is an icon and anything that takes away from its simple beauty; such as flood lights, fenced off/no go areas, regular competitions, etc. Could jeopardise this important attraction to Cottesloe beach. Swimming and recreational/relaxation activities are the only things this pool should be used for.	
Yes	2	3	1	No exclusive group use.	
Yes	2	3	1	a safe ocean pool will be an added benefit for North Cottesloe and for those swimmers who find the surf to be at times difficult	
Neither					
Yes	1	2	3	Prefer ocean pool to land pool.	
Yes	2	1	3	Needs to be a true ocean pool flushed by seawater	
Yes	2	3	1	Option 3 will reduce pressure on Cott main beach with easier access for users. Option 1 is not ideal due to additional pressure on already stretched amenity and access at Cott main. It would also reduce the sheltered beach area directly north of the groyne. Option 3 is definitely not preferred as it would involve degradation/destruction of Muderup Rock and the reef marine sanctuary in the area. Amenities (toilets, parking etc) are also problematic and would require significant work to install.	
Yes		2	1	The pool should be at north cottesloe because this is where most of the locals convene to swim. The pool will negatively impact the groyne area for surfers and swimmers in what is already a nice calm cove.	
Yes	1	2	3	the more the better	
Yes	3	1	2	The idea of the ocean pool should be in the actual ocean rather than on the sand dunes. Number 2 is the least likely to interrupt regular activities.	
Yes	2	3	1	Easy access & not impacting the ocean or reef	
Yes	1	3	2	This is because the option one will have more use for the ocean pool	
Yes	3	2	1	North Cottesloe is a hub and has many people visiting during the summer months. It will be a wonderful attraction for those who are afraid of the ocean.	
Yes	2	3	1	Less impact environmentally	
Yes	2	1	3	I love going to the beach, and have always done so regularly until the last few years. My kids simply won't go because of the increased shark sightings. We'd all love to be able to swim back in the salt water by using an ocean pool.	
No	3	2	1	Definitely needs to be inshore, the greatest impact is option 1 and 2. north Cott shoreline is already over developed and beyond Repair so inshore there would give the least amount of impact! Option 1 and 2 would ruin the integrity of Cott beach and the surf club.	
Yes	1	2	3	the best proposal	
Yes	1			The impact on the environment and the sea is frequently windy and rough on the south side of the groin. I am not interest in option 2 or 3, only option 1.	
No					1. pool very expensive. 2. Safest area for older people to enjoy swimming and children's swimming lesson area and where they are least about currents, etc. 3. What about the surfers who use that area. Leave our beaches in Cottesloe area alone.
Yes	2	1	3		
Yes	2	1	3	Don't like the idea of a land based pool. Scarb now has one. Would be nice for Cott to be a bit different. Main reason is using the ocean and being able to swim in sea water. South of groyne would have less impact on the main beach for swimming and surfing.	
No					I am against any built developments west of Marine Parade. If there must be an ocean pool, why not locate it in the northwest corner of the Golf Course (where the 5x5 mini sculptures are temporarily housed), then there is parking and other amenities nearby. If worried about sharks, install a shark eco-barrier and use it seasonally. This will attract lots of people to Cottesloe Beach.
Yes	2	1	3	Ocean pool that does not disrupt the existing swimming area.	
Yes	2	1	3	An ocean pool similar to Bondi icebergs is the best option. The south side location preserves the visual beauty and amenity of the existing beach north of groyne	
Yes	1	2	3	I think it would be lovely like in Bondi. I'd like a pool where there is a shallow place for younger ones to swim too.	
Yes	2	3	1		
Yes	3	2	1	An ocean pool would be such an asset to Cottesloe, but so are the beaches. Leave them untouched and put the pool up on marine parade ☺	
Yes	3	1	2	Just like Icebergs in Bondi. No impact on marine wildlife and natural saltwater pool.	Fantastic, "once in a generation" opportunity to enhance and enrich offerings in Cottesloe
No	1	2	3		I do not want a pool near Eric St and Marine Parade. North Cott surf life saving are ocean swimmers and the parking would cause congestion and put further impost on the number 2 car park which is already a waste of potential recreational green space. We don't need a pool just because Scarborough has one. A pool will only bring in more outsiders and non rate payers who will put extra impost on our infrastructure and cause extra litter and ruin Cottesloe for rate paying residents. Cottesloe is a unique residential suburb already straining under the influx of visitors and surrounding suburbs. Beautify what we have and replace the no 2 car park with green open space for events and activities and relocate parking to the east adjacent to the tennis courts. Imagine the extra strain on Cottesloe's resources with the influx of all those extra cars and people. Scarborough pool will accommodate those who do not want to swim in the ocean.
No	1	2	3	If we are to have a pool the area north of the ground is the best fit. It is where family's Congregate and would 'fit' neatly. It is the mist sheltered position and the original site of the children's pool.	
Yes	2	3	1	I feel as though option 3 will do more for linking the areas of Cottesloe and north Cottesloe and providing a bit more atmosphere along the strip. As it will be integrated into an area that already has cafes etc as well as the North Cott surf club	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No				If people want to swim in a pool then there are plenty of options already. I can't see how putting a pool in Cottesloe is not going to be at the detriment of the environment and the current surfing areas. Where are all the patrons going to park? Until there is enough infrastructure to deal with current crowds we should not be inviting more people to add to the chaos.	
Yes	1	2		I love the Bondi beach swim pool as a model for Perth. We don't want similar to Scarborough. Want natural surrounds. Want to keep north of groyne for free swimming etc. The beach around the pylon and surf club is iconic.	
No					
Yes	2	1	3	Option 2 is my preferred one because south of the groin is unused reef area, providing already a good foundation for the pool. Option 1 is disturbing the historic and scenic configuration of our iconic Cottesloe Beach plus reducing the natural beach area and access. Option 3 is too expensive and disruptive to this busy area of Marine Parade intersecting with the Eric Street access.	
Yes			1	Eric st land pool self funding by private group - no council funding required. Will not interrupt the ocean currents etc.	
Yes	1	2	3	I think an ocean pool is a good idea...but where? Where the previous children's pool was all those years ago (just north of the groyne) seemed to work well back then. It's an easy enclosed beach space and there is some car parking and other social infrastructure (ie change rooms and coffee shops) nearby. I'm concerned about the environmental impact of Option 2 on the reef and the seafloor south of the groyne so it depends exactly where the Council are envisioning putting it. A 10 lane lap pool at the end of Eric St would pretty up that corner if done nicely but doesn't have the ocean experience which I think is the Cottesloe signature.	In winter the ocean at Cottesloe beach can be wild and unpredictable - I imagine that this will cause major design complications but if possible an 'infinity' type pool would be very lovely.
Yes	2	1	3	I like the style of the classic rock pool depicted in option 2. I like that this proposal does not interfere with the existing beach north of the groyne and provides additional swimming options.	
Yes	2	1			
Neither	3	2	1	The Cott Groyne and reef are one of the few places to Surf in Perth. We want to keep surfing in the winter months available, and is protected from the seabreeze. For almost no additional cost couldnt the design incorporate a pool and improved surfing	
No	3	2	1	The possible impact of creating a pool alongside the groyne on the ability to surf at Cottesloe	Please consider the importance of Cottesloe as a wintertime surfing option
Yes	2	1	3		
Yes	3	1	2	North of the groyne would completely change the ambience of cott beach, it would make having Nippers difficult on a Sunday morning as there is already a restriction in beach space, and it would destroy any possibility of surfing Cottesloe Beach in the winter.	
Yes	2	1	3	Option 2 is by far the most amazing option!	
Yes	3	1	2	Option 2 provides for an authentic ocean baths experience that mirrors those successfully operating in Newcastle and Sydney. It caters for multiple users, and recreational areas are particularly welcomed. It is removed from the existing main beach and will not impact use of that area. The existing groyne structure impacts environmental and heritage values which reduces the potential impacts of the proposal. Option 1 provides little more than a sheltered swimming zone and impacts greatly on the existing beach. Possibly has the greatest social and visual impacts. Option 3 would likely have the least environmental and social impacts.	
Yes	1	2	3	Option 1 will provide protection via the groin, saltwater pool should require less on going costs.	
No					
Yes	3	1	2	Option 2 is by far the best option design wise and in functionality. Also adds to the existing Cottesloe scale as opposed to detracting.	
Yes	2	1	3	Option 2 won't affect marine wildlife and surfing breaks	
Yes	2	3	1	The Cottesloe "cove" / bay north of the ground needs to remain an untouched place to enjoy the ocean. By placing an ocean pool south of the ground will expand the space and give users a different perspective. The pool needs to be sea water	
Yes	2	1	3	South of groin is better as no loss of existing beach or swimming area. Love the kids pool. Good disability access. Aesthetically the best option	
Yes	2	1	3	Love annocean pool Swim at Icebergs in Bondi when there ... brings sense of community	
Yes	1	2	3	I'd prefer to have to pools as part of the ocean.	
Yes	2	1	3	Option 2 appears to have the least impact on the surf break and surrounding environment. It also utilizes existing infrastructure without encroaching on areas I enjoy swimming. Option 1 would be second but only because option 3 is a foolish idea in my opinion.	Please dont go with option 3. That would be a costly eyesore compared to the others if executed correctly.
Yes	3	1	2	Option 2 As it does not impact Cottesloe beach. Also it is also a salt water pool	
Yes	1	2	3	the sea breeze would be a problem for option2 there is already the groyne in place for option 1 there is limited parking for option 3 and we feel this would create a safety problem at the intersection with eric st	
Yes	2	1	3	Most natural	
No					If the Town of Cottesloe is paying for the survey then responses should be limited to ratepayers. It is easy to be enthusiastic about an idea if there is no personal cost.
Yes	1	2	3	Would prefe the pool in the sea and opted for option 1 as it will be more sheltered	
Yes	2	1	3	There is a great tradition of people doing all-year-round, early morning bathing particularly at North Cottesloe. This has been greatly curtailed by the Shark threat. The ocean based options would therefore be preferred because they will serve to re-charge this tradition. With a caveat as to adequate parking, South Cottesloe is preferred because it would add a whole-new-thing to a little used stretch of coast and it would not at all affect the character and the look of the fabled Cott and North Cott beaches.	
No				I will not rank the pool options as none are acceptable to the Cottesloe beach now or in the future. I am concerned that anyone in the Cottesloe Council would ever consider option 2.	There is no logical reason why a pool is required at any beach let alone the beautiful Cottesloe beach. People come from all over Perth to swim at Cottesloe beach not in a pool. Realistically, crowds of people frequent Cottesloe beach in the summer and are not worried by "Sharks". The money spent on a pool would be better used to upgrade the total beach area west of Marine Parade which is looking very tired and in URGENT need of attention!
No				As a local resident I don't think a pool is justified. People go to the beach to swim in the ocean. There are swimming pools in the area if that is what they want. With the proposed foreshore development, parking will be at a premium regards	
Yes	2	1	3	2 is the stand out favourite. As a Perth girl who has also lived in Sydney this iceberg 's-esque design is both beautiful and functional. I cannot wait for this to happen!	
Yes	3	1	2		
No				Cottesloe had a pool on the beach, it didn't work then and it won't work now. If people want to swim in a pool they can go to Challenge Stadium. Don't destroy our natural environment for bitumin and concrete.	
No					
Yes	1			The inclusion of water polo area	
Yes	2	1	3	To be an ocean pool, it needs to be by / in the ocean. For me, this makes the option 3 the least preferable. I have option 2 as best choice, as I see it important to keep the Cottesloe beach north of the groyne as available for families. A negative however of option 2 is it would be very open to the sea-breeze.	What is not clear in the options is "how far north" of the groyne option 1 is. If it were (say) below the current carpark (north of Surf Lifesaving Club), then this would be very different to having the ocean pool tucked near the groyne (similar to the wading pool many years ago). Tucked away just north of the groyne would great for the ocean pool users (out of the summer sea-breeze) but would be at the expense of family protected beach / swimming space. T
Yes	1	2	3	Environmental and access.	
No				A swimming pool that copies ideas from another suburb is not something this council should pursue. Alternative ideas presented in community papers would be a worth considering instead.	
Yes	2	3	1		
Yes	3	2	1	I like the salt water option & fact there is better parking at the Eric St end of Cott. And I like the boardwalk around the pool. I am not interested in water polo	Very please it's being considered and particularly option 3 will facilitate private investment & developments which will improve that part of Cott

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes			1	It is the only option in my view. It allows for access for all, doesn't ruin the iconic nature of COTTESLOE beach as it stands. Has unlimited potential for revenue, events and allows COTTESLOE locals and seasoned swimmers a great safe space to swim and train as well as attracting patrons to local businesses. The other options are not thought through in regards to design, access, and are way too 'small picture' proposals for what could be an amazing opportunity for our amazing Cottesloe Beach.	
Yes	3	1	2	Option 1 is least preferred because it will detract from the beautiful setting of curved beach and grassy banks around Indiana	
Yes	1	2	3	Pool north of ground is more sheltered from high winds And more connected with Cottesloe beach	If I like 3rd option as it seems like it is compromise between north and city beaches stuck in The middle.
Yes	1				
Yes	1	2	3	Option one caters for more users and closer to the ocean	the sooner the better
Yes	2	1	3	Option 1 gives the best ocean pool experience and it takes pressure off the already busy and pleasant swimming experience inside the groyne. Option 3 is unrealistic and the area is too small. Why did you not consider the park at end of grant st? This park has car parking and is under used and would make a fantastic location if a true ocean pool is not able to be realised.	Consider park at south west corner of grant st/marine parade if a true ocean pool is not feasible.
Yes	1	2	3		
Yes	1	2	3	It's the ocean so let's be in the ocean!	
Yes	1	3	2		
No					The form as is is slanted to wanting a pool. I note that ocean pools are common in NSW but there have been no new ocean pools since 1960 no doubt for good reasons. There are 2 major problems with a beach pool, neither addressed in presentation. They are the cost of building the pool and the cost of running it. Cottesloe can't afford to build it and would need major help financing the build (unspecified but possible). Running costs are a bigger problem. There are 7 pools within 12km of Cottesloe and 2, run by large councils, have had serious discussion about closure due to operating costs. There are numerous minor problems with these ocean pools. The policy of no new buildings west of Marine Pde reflects the majority opinion of Cott residents and must be respected. If the new beach users expected happen then parking/traffic will be a problem. Conditions of use & safety are problems. I have a grave concern about email addresses used not actual. They could come "potentially from anywhere in the world" as per Cr Sadler at the July Council meeting re an email petition. If I don't have to pay a ocean pool is a good idea even if I never use it - it cost me nothing and I perhaps might. Please forward this submission to all Elected Members
Yes	2	1	3	Less intrusive to beach and sea at Cottesloe.	
Yes	3	1	2	Option 1 would collect seaweed every time a NW wind blows - too much maintenance. Option 2 could be combined with wave enhancement into the cove by triangulating Southeast into the bay with the retaining (groyne) wall. Option 3 would provide a swimming area for the keen morning swimmers on stormy days.	For Option 2 Professor Charu Pattiaratchi at UWA has modelled and studied ocean dynamics so it could be at low cost using Honours or Master of Engineering Students for a thesis subject. Details: UWA Oceans Institute
Yes	1	2	3	Ocean pool on north side of groin so it's protected from the sea breeze and more 'connected' to the area that is known as Cottesloe Beach.	I remember playing in the pool at Cottesloe Beach as a child and it was wonderful! It would be a wonderful asset to the area like Icebergs is to Sydney.
Yes		1	2	Building it on the southern side of the groyne would be the better option as it won't affect the quality of the winter surf on the north side of the groyne.	
Yes	3	1	2	2 is the only viable option for saltwater pool which can be emptied naturally 3 will be affected by dune erosion 1 will take up too much beach space and will spoil the beach	
Yes	3	1	2	Option 2 retains existing protected beach north of the groyne whilst providing cost effective rock pool on the south side. Option 1 consumes too much of the protected waters at Cottesloe	
No	3	2	1	Prefer a land based pool to least interfere with marine life and to maintain current beach access	
Yes	2	1	3	Pool location 2 gives the pool a natural rock pool experience similar to NSW beach pools. It would not destroy the Vista of the main beach. The public and Cottesloe Surf Club could continue with their activities and it would not affect current surf conditions or the main beach. Pumping or natural ingress of sea water would be the most cost effective.	I think that if the pool was on the north side (pool 1) environmental factors would not allow adequate flushing of the sea water and problems would occur with sea wrack and sand build up would affect the remaining beach front. I do not support Pool 3 as it would be too expensive to maintain the pumping of sea water and expansive earthworks would be needed Than you for the opportunity to comment Owen Ashby
Neither					
No				our beach is too small to build the infrastructure required for a pool we are already under parking pressure without inviting more public to the area.	
Yes	2	1	3	I grew up in Sydney and the ocean pools there are amazing. They complement the shoreline and are a drawcard for tourists and locals alike. The pool must be based on the shoreline, not the land so that the waves can crash over the side, flushing it out regularly and creating the sense that you are still in the ocean.	
Yes	1	2		Really not interested in option 3 at all. I haven't seen much detail yet, but I may be concerned re- reef habitat if option 2 were to proceed.	
Yes	1	2	3	option 1 has the plan that I think all people can enjoy, I dont see a point in having a saltwater pool (option 3) when that is what we more or less what the ocean is!!	I think what we are in desperate need of as well is new public toilet block as there are no public toilets that are close enough for especially kids in this area.
Yes	3	2	1	More year round use and amenities if land based.	
Yes	3	1	2	Option 2 is a perfect position as it's a great location and it not being utilised. That could be the icebergs of WA. Option 1 will kill the beach area there. No room for nippers or sunbathers and it's a great protected area for kids to swim in the ocean Option 3 will just be another Scarborough. It's been done	
Yes		2	1		
Yes	2	1	3	South of groyne will not impact on the swimming area area now in place, keep two spaces separated by the groyne.	
Yes	2	3	1	Less environmental impact. Less impact on recreational fishing and diving area	
Yes	1	2	3	Option 1 seems to be the most logical in terms of access, parking, useability, feasibility. Think its a great idea to have a ocean pool.	Don't like idea option 3. Ocean pools work like a dream in sydney. Lets do it!! And let the ocean become more user friendly in Cottesloe.
Yes	3	2	1	Better swimming experience.	Get on with it
Yes	2	1			
Yes	3	1	2	I think North of ground doesn't provide anything more than an enclosed area of an already well used safe swimming area and is not attractive aesthetically. South of the groyne we opens up an under used area and adds great attraction to this beach area. North Cott pool is just a swimming pool near the sea. But I only support any project if car Parks are increased to cope with increased use of the area. Currently it is difficult to park close to the beach at popular times and I would like to see the car park next to Beaches Cafe developed to be an attractive low rise but possibly below ground and 2 storey parking facility to take cars off the sea side of Marine Parade.	
Yes	1	2	3	Option 1. Immediately accessible to Cottesloe Beach making for combined attraction & utility. Option 2 as above, but subject to SW's Option 3 no problems with this location	A dedicated pool, properly constructed will provide a great public amenity and a safe swimming and training environment. Strong consultation with regular swimmers, lifesavers and the experience from the Scarborough pool must be taken on board. Above all, it must not be left to non-swimmers to make final decisions about pool design.
Yes	1	2	3	sounds the best for everyone	
Yes	2	1	3	Option 2 (south of groyne) would not change the existing look and use of the beach. It would make the area south of the groyne (currently not used much by swimmers) more user friendly for swimmers. To me it is the best option.	
No					I think the pool will simply add to the cost burden of the Town with little additional benefit for those who live (and pay rates) in the Town. Things like maintenance, security, liability etc Comparisons to other locations/pools don't convince me, like Scarborough, has bigger surf so a pool makes sense there and seems more geared to people visiting the locale, the Groyne at Cott main has, since we moved here provide adequate protection for a majority of the time. Not to seem to be too harsh, if we can't even run toilets well at the beach imagine a pool?
Yes	1	2	3	Area more protected, by the groyne. Easier to access. Options 1 and 2 do not disturb the shoreline. I suspect Option 3 could involve some expensive maintenance especially after winter storms.	I am assuming the Option 1 has a "free" area as well as the lanes and water polo space. I do not wish to swim in a lane, my pleasure is to flop around in the ocean on a hot day, maybe swim ten metres.
No					

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	3	1	Option 3 leaves the beach in a "natural" state whilst providing a "safe" swimming alternative for people concerned about shark attacks. Option 2 offers a "safe" swimming area in an area of the beach often used by families.	Really I would be happy with Option 1 or 3. I don't like option 2.
Yes	2	3	1	I am against interfering with the natural limestone outcrops & ocean bed south of the Groyne. I wish to keep the pool in Cottesloe, not North Cott. where parking would be another problem to address & their's, rather than OUR surfclub would reap the benefit (& kudos). The section of beach north of the Groyne has at various times accommodated walkers, a pool etc. - plenty of room & the whole can then be integrated with other plans which are under consideration. All addressed at the one time.HH	
No	3	2	1	We have good options for natural ocean swimming as it is. A shark net would be a cheap addition for safety. We should not compromise surfing locations by building in ocean. I am paying enough rates without more being spent on these unnecessary schemes. Any building work will seriously effect ocean access for a long period.	Please do not persist with this idea and waste anymore money on feasibility studies
Yes	2	1	3	1. Option 2 Would like pool experience similar to eastern states pools and sea water filling the pool. 2. Option 1 may be impacted with Sea Weed and not be refilled with sea water as planned. Pool on this side of the groyne would interfere with public and surf club activities. I do not believe there is adequate space to build a pool on the north side of the groyne. 3. Option 3 Possibly too expensive and not in line with environmental plans for Marine Parade. Parking, access and generally redevelopment of west side of Marine Parade has not been planned for.	It would be a wonderful attraction if a sea pool was built at Cottesloe Beach and it was incorporated into the redevelopment of Cottesloe Beach that is currently being undertaken. A sea water pool for disabled people would be a wonderful activity and something that cannot be experience on the WA coast at the moment. Thank you for the opportunity to comment
Yes	1	2	3	Needs to be on the water, with multiple uses but primarily have lanes for swimming, water polo a great ideahold events that draw national & international fixtures and putting Cottesloe on the world stage I can't see how the option north of ground would work without filling up with seaweed in winter. Option south of ground - feasible as long as it doesn't affect the surfing areas.	
Yes	3	2	1	Option 1 ranked last due to concern of sedimentation. Option 2. Ranked 2nd due to damage potential due to large waves and difficulties and costs during install. Option 3 ranked 1st as in good location that will be well used by the public.	Great idea to have an ocean pool
Yes	1	2	3	Would prefer an ocean pool to a salt water one	
Yes	1	2	3	An ocean pool to the immediate north of the groyne is the logical place for an ocean pool.	
Yes	1	3	2	salt water pools are a preference.	we need to be safe when swimming so any pool would be a viable decision.i no longer swim at Cottesloe.
Yes	2	1	3	Option 3 will preserve Cottesloe Beach as it is and utilise an unused section of the beach. We then get the best of both worlds.	
Yes	2	1	3	Option 2 has less impact on current beach use, and expands on existing facilities. Option 1 presents greater impact, however will require less maintenance than Option 3. Option 1 will also most probably require greater evaluation of environmental impact due to shifting sands etc. Option 3 area isn't ideal based on accessibility and ability to add additional parking. Option 3 does however improve the use of that particular area.	Additional option would be to situate closer to Swanbourne Beach end of Marine Pde, where there is greater available space to allow for access and amenities associated with a public pool.
Yes	2	1	3		
No				There is the ocean and there are pools relatively nearby eg a Challenge, Claremont, Freo. Better things for money to be spent on. Also it will be used by non residents but paid for by residents	
Yes	2	1	3	The area south of Cott groyne is currently under utilised, this increases the utilisation and protects the sanctity of the current cott beach.	
Yes	1	2	3	I have always longed for an ocean pool in the first location option. It is a brilliant idea and I commend you and the team for bringing it forward for discussion/consideration. Really hope it comes to fruition. It will be a big draw-card for Cott and its residents. I am also very partial to the other two options - any saltwater pool is a good thing. Warmest, Berlinda	
Yes	3	2	1	I think located south of the groyne wont offer sufficient protection in winter The location of a land based pool doesn't disrupt the natural beach	
Yes	3	1	2	OPTION 2 is the logical choice. It has a rock base, the waves are broken down by the outer reef, it would not interfere with the main beach in it's present form. OPTION 1 would be dangerous to swimmers and surfers who would get dashed on the outer rock barrier. It would also fill up with sand and weed and the outer wall would need to be just as robust as the main groyne or it would be washed away by the North West storms and the pool would take away the best and most sheltered part of the beach. OPTION 3 The beach area is too exposed and windy for a regular swimming pool which should be covered and located in the district centre of Cottesloe, look at Bold Park pool,they call it COLD PARK and not many people use it, especially in winter. OPTION 2 IS THE OBVIOUS CHOICE as it covers all needs and purposes without disruption.	I think that OPTION 2 is a great plan. Would be easily accessible from the beach,doesn't infringe on the beach or the cliff face, it is away from where the birds roost, has a secure base, is in sheltered water (the reef breaks the waves down)and would be easy to circulate water through. Also very attractive to all concerned who like to laze on the beach and have a dip without the fear of sharks. I don't think that we need 8 lanes in the pool, six should be plenty as it would get seasonal use and it would need a lot of extra space to cater for swimming events. Brian Kent 5c Overton Gardens, Cottesloe.
Yes	2	1	3	option 2 has less impact on the beach amenities	
Yes	2	1	3	I would prefer natural. I think with the shark risk many are reluctant to use the 'real' ocean. However they would be happy to use a pool with the real ocean water.	I think more needs to be considered re access and parking for any of these options.
Yes	2	1	3	8 swimming lanes preferable, if ocean swimmers to be provided an alternative to the open waves. South would be out of the way of the more sheltered bay that the groyne offers.	
Yes	1	2	3	Option 1 being north of groyne has some protection from groyne itself and SSW winds and swell. Is a safer position being closest to life savers and equipment under Indiana. Option 2 is more open to weather and more separate from general open ocean swimmers and life saving equipment. Option 3 - land based - to far away from main beach and upkeep from pumping of salt water and possibly less protections from unwanted sand collecting in pool.	Action required. Ensure overall plan, budget / costs and future effects are understood physically and cost wise.
No				Pool South Groyne This area is gazetted a "Reef Habitat Protection Area" Some 20 years ago a small group of local residents together with University Academics,Member of Parliament, Giz Watson, fought against Cottesloe Town Council, Dept of Fisheries, Various fishing organisations, to protect the natural habitat from North Street to the foot bridge at Leighton extending some 800 meters west from the shore line.(Which took about 5 years and much angst) resulting in a gazetted "Fish Habitat Protection Area" A swimming pool (south of the groyne)with all its added facilities) will destroy one of the main elements of this fish habitat area.	Pool Morth of the groyne. For 5 months of the year where this pool is to be situated and to be used is at various times Pool North of Groyne When will Council(and those people wanting a pool on the beach) REALISE IT WILL NOT SURVIVE. Nature has successfully destroyed 1. An enclose swimming area(with only the Pylon surviving)2. A Jetty.3.A very expensive concrete walk way 4. A kids wading pool, and thats just in the Town of Cottesloe. Shall we also mention the wonderful work done to make a reef surfing area towards Leighton. Didnt work although designed by the Gurus at UWA and costing over one million dollars some 10 years ago. Pool at North Cottesloe. There is no need for an onshore pool in Cottesloe Claremont pool with all its facilities including, parking, Lawns, eating facilities and most important is HEATED,is only 10 minutes minutes away.
Yes	1	2	3	close to old salt pool. Well known location. Existing infrastructure	
Yes	1	3	2	An ocean pool is unique and would add character to the beachfront. The conditions south of the Troys are not suitable in my view for an ocean pool.	Cottesloe needs to progress and this is a good step in the right direction.
Yes	1	2	3	Ocean pool north of the groyne would be more protected than one on the south side. Not for the Eric Street/Marine Parade option Would like to see one of the children's pools with the sprays as at Elizabeth Quay at that location instead. There is one in Adelaide.	Nowhere to stay between Perth and Fremantle. Cottesloe needs quality tourist accommodation
NO	2	1	3		
Yes	3	1	2	As highlighted in the provided presentation all options have some challenges. For me the key criteria are to minimise cost, ongoing maintenance and the impact on current usage of areas while maintaining the character of an ocean pool. As outlined below Option 2 meets these criteria best if a sustainable agreement can be reached with the traditional land owners and substrate proves to be suitable. Option 2 (1) maintains the character of an ocean pool (2) isolation not a concern for improper use...many east coast pools are isolated and do not have major issues (3) impact of isolation on use can be addressed with suitable access infrastructure (4) substrate needs to be proven to be suitable otherwise danger of high construction and maintenance costs (5) MOST IMPORTANTLY through fair and respectful negotiation a sustainable agreement must be reached with the traditional land owners Option 3 (1) Does not maintain the character of an ocean pool (2) high cost of construction and maintenance Option 1 (1) This will significantly impact surfing in this area (2) Filling with sand and sea wrack will be an ongoing issue (3) Will impact what is a beautiful part of Cottesloe beach	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	2	3	On the presumption the the ocean pools subject of options (1) & (2) are preferably saltwater, Option 1 would be in the lee of the groin, thereby providing some shelter from the Freo Doctor, though presumably more expensive than Option 2. Option 3 is the least preferred because of its encroachment on existing facilities & the added distance from parking would add to congestion in the area. However, Option 2 has the advantage of being below the golf course, with that southern area being relatively undeveloped.	I see the provision of adequate parking being a major issue. As a resident, with easy access to the beach via Shank's Pony or by bicycle, I see myself being inconvenienced by additional hoards of non-resident visitors struggling to find a parking spot. I would advocate Paid Entrance at a level so as the way to cover all the costs of pool maintenance, safety & staffing as well as future refurbishment costs. I don't want to see our rates increasing because we have to support an unfunded facility that then becomes a burden; Please employ the principle of USER PAYS i.e. it must be a consumption expenses not a residents' rates issue.
No				I don't want a pool. The money should be spent on more essential items such as better pedestrian access over Curtin Avenue especially in the Southern Ward which never has any money spent on upgrading improving pedestrian access. The overpass from the Western side of Curtin Avenue to the Eastern side of Stirling Highway at Cottesloe Primary School needs upgrading and ramps installed to make it safer for children and the elderly. It's totally unsafe and urgent funding should be allocated to this bridge instead of wasting money on costly pools.	Don't waste the money on a pool. Use it to improve pedestrian safety especially in the Southern Ward across Curtin Avenue to the shopping centre at Jarrad Street, to Cottesloe Primary School and to Mosman Park Train Station and Wellington Train Station
No					There must be more important things to spend our rates on.
No			1	If there has to be a pool then it should be land based . Ocean Pools would require too much maintenance	I think Ocean Pools would require a lot of maintenance and upkeep by council. As the majority of users would be non rate payers I don't see why rate payers should have to fund this amenity when there are two other good pools in the vicinity . If there has to be a pool then the land based one would be my choice .
Yes	1	2	3	My preference is option Accessible from beach and more user friendly	lets decide and get started
No				Tidal concerns Environmental concerns Loss of recreation swimming space for the majority of Cottesloe residents lack of infrastructure to cope with influx of cars from training squads	I went to the meeting last year about the proposed pool between groyne and pylon and was most definitely interested in the research the Murray Jacob had done. It is an extremely delicate marine environment and you would have to concrete up some structure in order for water not to be lost through rocks (as was suggested by Tom Locke etc.) I am strongly opposed to this happening. I am a swimmer and regularly swim at St Hilda's, Claremont, Challenge and Fremantle and we are very well catered for in compared with residents of other suburbs already.
No				if I had to I would select option 1, subject to environmental review and assessment of long term shifting sand issues etc	
Yes	1	3	2	Option 1 is an integrated solution It is part of the existing beach front. It is a shark proof enclosure needed due to the lack of effective control of the shark population	
Yes	1	2	3	This is a great opportunity to improve the facilities at the iconic Cottesloe Beach. For too long we have not seen any development and progress compared to the likes of Scarborough, City Beach and most beaches located over East. Additions such as an ocean pool will increase Cottesloe's appeal as a leading tourist destination. I prioritised Option 1 and Option 2 as I believe the pool should not be land based and should be a genuine ocean pool which will be the first in WA. I chose Option 1 as the pool will be more protected on the North from the sea breeze. Hopefully this ocean pool gets approved and opens the door to further development which has been absent in the last two decades.	
Yes	2	3	1	We need to protect the reef area South of the groyne.	
Yes	2	1	3		
Yes	1	2	3	I believe my ranking is the best. I started swimming at the Cottesloe groyne mid 1973.	Let's get the work done a.s.o.p!
Yes	3	2	1	Like the idea of spreading facilities along the coast a it more than we have now. Although capex of Option 3 may be more - the long term operating costs will be less. Being isolated from the marine environment/ waves and currents gives more control and predictability in operation - leading to more comfortable conditions for lap swimming all year round. The utilisation for this facility will higher with swimming possible though spring, autumn and winter. Since changerooms, cafes etc already exist here there will be lower capex costs required.	
Yes	2	1	3	Hardly anyone plays water polo and would significantly increase price or pool. Better not to interfere with sight lines so a southern pool would look better and not crowd the sandy beach. No point having pool if not an ocean pool, can go to claremont or mt claremont instead.	They are well used in Sydney.
Yes	1	2	3	Provides community spirit	
Yes	1	2	3	Option 1 preferred as already protected by the groyne for most weather conditions and wide beach to build a large pool. Option 2 is recreation fishing area though this is still acceptable as current beach space would not be effected. Option 3 least desirable due to lack of space for pool and car parking	Please build a pool asap. It will be great for locals and tourists. The NSW coast has several ocean pools and they provide a fantastic healthy environment for all. Cott ocean pool has been talked about for a long time. Please get it done. The artificial surf break took a decade of discussions. So much discussion I got sick of reading about it. Thankfully it was built. Same for the pool. With the right design, environmental concerns will be nil. There is no downside to this facility.
Yes	1	2	3	I love the idea of creating a sporting park / outdoor activity area, hence the choice of an ocean pool and water polo area. AND I like the idea of North of the Groyne as it will distribute parking around this heavily populated area in summer. I am however concerned about the loss of the natural areas North of the Groyne, the look and possible impact on wildlife if any.	
No					
Yes	1	3	2	Number 1s cheaper to build than number 3. Convenient and protected position. I would feel safe swimming there. Currently I am so scared of sharks I don't swim at all now. Number 2 is located too far away and not protected by the sou west winds. Number 3 is attractive to me but the cost could be prohibitive. I also don't know how it will be filled with ocean water.	
No				Until Cottesloe has an overarching positive plan for revitalising/upgrading the Foreshore generally including redevelopment options along Marine Parade from Indianas to Grant Street anything else is a piecemeal 'band aid' solution. Shade trees, realigning Marine Parade and reducing parking at the beachfront simply is a waste of time/energy/money and does nothing for the overall amenity of the area. What about a big picture for more vehicular parking? In more confined areas other cities (and even local schools eg St Hildas and MLC) have multi-level underground parking. West of the tennis courts, the dunes park, presents as an ideal location. Think about it!!!!	
Yes	1	2	3	Most natural position. The groyne should give some protection from storms. Broader choice of uses. Some concern about the cost, but maintenance should be less than a land-based pool, e.g. Option 3. ?	
No	2	1	3	Option 2 - Area south of groyne is under utilised and more parking available. Option 1 - Area north og groyne is nice sheltered beach for elderly and families Option 3 - A stupid idea, absolutely no available parking with OBH, and 2 cafes already there.	Major problem at Scarborough ocean pool is parking!!!! What is iconic about the pylon at Cottesloe? It is a poorly made, man-made structure and wasting \$100,000s on it is utter madness. The sea will always win so cut your losses.
Yes	2	1	3	I am opposed to a land base pool so option 3 should be discarded. I think south of the groaner is preferable as access is good and it will not interfere with widely popular ground beach area	
No			1	I believe the maintenance & upkeep would be far less than other options and be more user friendly during inclement weather	Should a pool of any make be considered by Council & ratepayers as appropriate a user pay for outsiders (non Cott Ratepayers) should be a priority for the inconvenience due to additional crowds and parking that would be created.
Yes	1	2	3	Easiest access Most protected Least intrusive to environment	Great to see some action and consultation being sought . Hope the naysayers to everything that tries to be done to improve Cottesloe are outnumbered by the silent majority who want to see sensible progress and improved amenities
Yes			1	As a regular user of Cottesloe beach, the MOST IMPORTANT part to keep UNCHANGED is the Northern (protected side) of the groyne. Any pool or beach infrastructure changes should be very minimal and/or seemingly non visual different to the existing beach and current landscaping. An Ocean Pool on the Southern side of the groyne would be the best fit for Cottesloe in my opinion.	PLEASE NO, pool on the Northern side of the Groyne and No land based pool that would change the current landscaping of the beach land area.
Yes			2	The integrated pool south of the groin fits into the landscape very well.	Option one is very intrusive and visually discordant with the natural surrounds
Yes	1	2	3	I believe Option 1 will provide the greatest amenity to the greatest number of people, due to its central location. I believe the other two will serve fewer people due to their locations.	
Yes	3	2	1	Sounds like the pool at Scarborough which is fabulous & great for all members of the family	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No	2	1	3	There is not enough space to have it at Eric St and no parking availability, south of the groyne is grotty and needs a clean up.	We do not require a swimming pool at Cottesloe, put a shark net up from the groyne across to pylon and beach for all the tourists scared of sharks. Rate payers should not have to foot the bill for a pool and more tourists coming down to the beach. I would rather spend the money on some decent toilets and change rooms under Indiana tea house. Kick those damn tenants out and get some decent tenants to lease Indianas. Sunday afternoon jazz bands at Indianas would be a much welcomed addition!
Yes	3	1	2		
No	3	2	1	Intrusion into the natural beauty of Cottesloe Beach and the unique marine habitat South of the groyne. Land based will be more available in bad weather. Near the existing facilities at Eric St would provide the best utility for users.	An ocean pool is unnecessary and labels Cottesloe Town Council as playing catch up with Scarborough.
Yes	3	2	1		
Yes	2	1	3	Utilise a little used area. Save spoiling the existing groin area. Eric St position is just not an ocean pool. I imagine the groin would give some protection from winter storms but I would hope there would still be waves rolling in to the pool as they do into the Bondi pool. With proposed tree planting, a pool south of the groin would open up a whole new public area.	My whole family was sorry when the paddle pool was removed and we love the idea of an ocean pool, offering a more controlled swimming area.
Yes	3	2	1	A land based option would reduce the impact on the coastline and could be better weatherise in the winter. I like the beach north of the Groyne as it is and think a pool there would alter the ambience too much. One South of the groin would be fine but I can't help thinking it would get blasted in the winter	I think a pool on the site of the current John black Dune park would be good. It could be built in conjunction with a multi (2-3) level car park between it and the beach which would be a great parking solution once the No1 carpark is closed.
No	3	1	2	I believe a pool located north of the groyne will change the whole ambience of Cottesloe Beach. It would unnecessarily impose on the existing beach and limit the available ocean swimming area. Option 2 would not interfere with the existing beach swimming area and the only problem I see with this location is the cost. Option 3 seems to me to be not an ocean pool at all. If building a pool is going to be like any other suburban pool it might be better to build one further inland to provide better access for those living further away from the beach.	I'm not sure that I agree with the concept of building a swimming pool on the beach. People come down to the shore to swim in the ocean. If the problem is peoples perception of the danger from sharks then it would be better to spend our limited resources in mitigating that problems with nets or other types of deterrents. No mention is made as far as I can see as to how these plans are to be funded. I am fundamentally opposed to any increase in rates to fund such a project. It seems to me that the main users of the proposed pool will not be Cottesloe rate payers but people from all parts of the metro area. Our rates are very high already so this is an issue that needs to be addressed more comprehensively.
Yes	2	3	1	South of the groyne winter weather I like the idea of a land based pool.	
Yes	1	2	3	Would prefer to see an ocean pool in the ocean	
Yes	2	1	3	Option 2 and 3 are the only real ocean pools. Option 2 gives use to a currently unused area, by either swimmers or surfers, whilst still preserving the iconic Cottesloe beach area for general use. This is as close to a Bondi style ocean pool we could get	
Yes	1	2	3	Closer to the water will still give the feel of being at the beach. Will be great for exercise, and safer than swimming in the ocean. Water Polo will attract revenue and encourage fitness.	
Yes	2	1	3	I think we need a pool for safety purposes in regard to shark attacks I think South of the groyne it will be tucked away and the thought of it intruding into the swimming area on the North side of the groyne would take away from the beauty of that small area which is so picturesque The thought of it being near the Cnr of Eric and Marine Pde will also take away the beauty of the area.	
Neither	2	1	3	I think that option 2 provides the least disruption to our beautiful Cott and North Cott beaches while still providing a safe option for fitness classes, swimming lessons and general public use. A 50 metre is likely to attract more swimmers. It should also be possible to utilise the rise in tide to refresh the water as is the case in NSW. I would not like to see the current swimming area north of the groyne compromised so am not supportive of option 1 but feel that the third option is the least suitable as it seems to present more interference with the dunes and coastal flora, parking is already very difficult in the vicinity and access from the beach more difficult.	
Yes	1	2	3		
No	1	2	3	Cost and ongoing cost. Will attract more people to Cottesloe.	
No				I appreciate the natural habitat and environment of Cottesloe. I see no reason to destroy that for the sake of a swimming pool when the ocean is available.	
Yes	1	2	3	Believe best location as sheltered from the strong sea breeze (sou'wester) Could be visually appealing to the beach and I believe should be a true ocean pool, not on the beach (option 3)	
Yes	3	1	2		
Yes	1	2	3	Option 1 is best. Definitely would not want or support Option 3	
Yes	1	2	3	An ocean pool is a great resource and would be the first in Perth, I think. It preserves valuable land space too. An ocean pool is probably prudent as shark activity is increasing. It would be best to preserve south of the groin. A pool north of the groin enhances the general facilities north of the groin.	I'd prefer the pool north of the groin to include 50m swimming lanes.
No	2	1	3	3 last because: a). expense b). need pumps filters etc to circulate water c). defeats the purpose of an ocean pool not being on the ocean - why not a fresh/chlorinated pool in a better place? 1 next as: Cott beach is iconic, don't want it messed up with a pool Also a guess: more/bigger swells south of the groyne, so better refreshing of water from wave action. 2 first as the area south of the groyne is "waste" beach, you can't really swim there, so you're discommoding the fewest people and destroying the least desirable area. What do the long-boarders say?	Excessive cost for little benefit. No thanks, not with my rates. Ocean pools work well in Sydney where you have big swells crashing into the rocks (WA doesn't), where you have the tradition (WA doesn't), and where they're already in place so no environmental arguments.
No					Waste of money, when we have a magnificent ocean to swim in that God cleans daily. Also why should Cottesloe build a pool, when Mosman Park are going to build an ocean pool, further down the coast?.
Yes	2	1	3	Preference for an ocean pool sensitive to environmental impact but also creating a useable social space.	
No				Why on earth do we (as residents) need a pool on the oceans edge. It seems to me that a large portion of our rates goes towards maintenance of beaches, car parks and facilities used by non rate payers, so I do not want to add more cost... Redirect potential users to Scarborough.	
Yes	2	1	3	Minimum disturbance to the existing beach.	
No				Option 4: Don't want any pool so close to the coastal dune system. There is no consideration of climate change affecting the environmental aspects long term.	1. I oppose the sale or lease of any coastal bed in connection with any pool. 2. I support the enforcement of the 100 metre setback from high water mark for any developments (except for the provision of public conveniences: toilets, showers and change shed for example). 3. I support the retention of coastal bushland and the enhancement of dune protection with planting and shade, rather than a pool. 4. I strongly support what is absent, a priority to the State Coastal protection policy. Sorry its correct name is not to hand; due to increasing scientific evidence, the rate of ocean levels rising was getting higher. Climate change, or global warming is under way and it is very unwise to plan this pool near a fragile coastal dune system. 5. I support the old Cottesloe policy of no new building or constructions west of Marine Parade with the exceptions above at Item 2.
Yes	2	1	3		
Yes	3	2	1	I like the concept of spreading activities along the coastline, and while Option 3 is not a classic "ocean pool" it is situated closely enough. It is also accessible to a greater number of people, and takes advantage of a central location to use existing amenities. A classic ocean pool would be ideal, but in my view Option 1 would take away such a lovely general beach and wave system that is enjoyed by so many. Option 2 in my view is too isolated and exposed to the sea breeze.	Very much in favour of a beach-side pool
Yes	3	2	1	Better is of existing infrastructure. Parking better nth of ground and near Eric st. Appearance better than on the south of the groyne which will have no impact on the main beach area.	
Yes	2	1	3	I like the idea of an ocean pool not impacting the current arrangement too much	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	3	1	putting a pool on the southside would disrupt surfing and expose it to weather. putting a pool on cottesloe main beach limits space and increases traffic to an already crowded beach. option three is the best in my view as it allows for a share of traffic between cottesloe and north cottesloe beaches. it complements the north cottesloe surf club facilities and will be more accessible to cottesloe residents due to more parking and less traffic than cottesloe main beach. This solution makes most sense. a saltwater lap pool would be good for a safe salt water swimming option away from sharks and bad weather. people are more likely to pay for a pool they can exercise in rather than just dip. A saltwater lap pool would be like a better version of Scarborough.	
Yes		2	1	Option 3 is the most central location, it will assist the businesses in Cottesloe without disturbing the beach. It also sounds like it would be a decent size. Option 1 would detrimentally later the famous landmark that is Cottesloe beach and Option 2 would disturb too much marine and beachside nature.	
Yes	1	2	3	There should be ocean pools at every beach, just like Sydney. Safety is the primary concern. North of the ground is preferred because it's already developed that side of the groyne.	
Yes	1	2	3	Option 3 is not an ocean pool. It is not environmentally good. Option 2 is a good option 2 but I am concerned about the safety and access may not be easy. The North Groyne is an ideal spot and will add another icon to the Cottesloe Beach.	Hope to see a ocean pool soon at Cottesloe Beach. It will become so popular. Especially in winter it will bring additional business as Ocean difficult to swim in winter but the pool would encourage people.
Yes	1	2	3	North of groyne would be best	
No				The three locations all have their problems, mainly lack of sufficient space for the pool, surroundings (change rooms, shade, shelter from wind, security) Cottesloe Council does not have the financial or human resources to undertake such a project.	The Council needs to focus on basics, and completing existing projects, such as foreshore. This survey will be meaningless as far as Cottesloe is concerned, as it is open to whole world to comment, with no reference as to where the respondent lives. It is clearly open to manipulation by the small and vocal pool lobby to get pro pool votes from far and wide with no accountability. It is also open to manipulation by the consultants who will skew results to support further work which will generate additional fee income.
Yes	1	2	3	One. True ocean pool, conveniently placed. Like swimming at the beach in safety, protected from the elements and predators. Two. Ocean pool but exposed so not as encouraging to use. May have difficulty with being allowed to dig out the reef. Three. Lack of parking. A 'suburban' pool at the beach. Would need to be fenced and patrolled. Would be a 'private' pool for North Cott SLSC. If they have the money they can build it for themselves.	
Yes	1	2	3	Option 1 integrates the pool with the existing Cottesloe experience. It requires minimal work and makes use of the existing groin.	
Yes	2	1	3	#2 preferred as it is off the beach but still very much part of the beach experience. Will have great views and provides alternative swimming option to the sea. #1 would impact sea swimming options particularly as the groyne provides a sheltered place to sit/swim on windy days #3 too removed from the beach and is more like a regular outdoor pool. Too similar to Scarborough beach pool?	An ocean pool will be great addition to Cottesloe
No	3	2	1	All of the proposed options have disadvantages that vastly outweigh any benefits. Option3 has least negative environmental impact but access to the pool by visitors would be very restricted.	The western suburbs are not in need of extra pool facilities and the high costs of running such a facility and the levels of likely use would make it a very poor investment for Cottesloe.
Yes	3	1	2	Option 2 keeps the pool near the main beach area where people generally swim. Option 3 is a good alternative. Option 1 would impact too much on the existing 'calmer' swimming area created by the groyne.	
Yes	1	2	3	Protection from SW winds in summer. One side already from groyne being there. Protection from wind south of groyne is second preference because of strong SW winds in summer.	North Cottesloe not an ocean pool water would have to be pumped up to the pool. Cost would probably be a lot more. Cottesloe more central to rail station than Grant St station. Cottesloe station closer to beach than Grant St is to North Cottesloe Beach.
Yes	2	1		North Cott pool hideous destroys amenity. North ocean pool destroys aesthetics of Cott beach too much rock. South is an ocean pool, safe, sharkproof, allows lap swimming in the shelter of the cliffs and would look fantastic.	Surf club could be upgraded a la Icebergs in Bondi - money/rent to Council, iconic/dining facility, appropriate changerooms.
Yes	1	2	3	I'll provide a few reasons why I support this: 1. I lived in Sydney's eastern suburbs for several years and there are a lot of ocean pools there; they are very popular and get used a lot, and they require a lot less maintenance than a normal pool if they are well-designed. My father has been lobbying for these pools along various beaches in WA, so I am aware they are well-designed! 2. they provide a place for less-experienced swimmers - like tourists - to swim more safely than in the ocean. 3. I also spent several years in the 1990s teaching children to swim at Cottesloe beach during the summer holidays. Having a pool like this at the beach would have allowed us to teach younger kids at the beach. From memory, only 9 year olds and up were allowed to attend the beach lessons; younger kids could only be taught in pools. It is very important for children to be formally taught how to handle themselves at the beach, and having a pool like this would allow a nice mix of pool-based teaching and, when ready, the kids could be moved into the ocean proper.	
Yes	2	1	3	Safe swimming in sea water Allows closer connection to the sea for people with health conditions and those who are not strong enough to tackle rips and waves etc	Perth needs to grow and accommodate the needs of its people. We are not a country town anymore!
No	1	3	2	Option 2 ought to be removed entirely as this encroaches on the reef, which is a fish habitat protected area. This would be environmental vandalism, and ruin an area much loved by snorkellers.	
No				Definitely do not want the ocean pool on the South side of the Groyne as that is one of the only places the young surfers of Cottesloe have and should be preserved.	
Yes	3	2	1	Love that the pool would be handicap accessible and easier for people to get to and use.	Please consider a shark barrier. I know researchers were trailing a barrier in South Africa that used metal chains and pipe that seats like kelp/ seaweed. It provides a moving barrier that sharks don't want to swim through and a place for native animals like sea dragons to shelter.
Yes	2	3	1	I think there is enough development now around the Cottesloe groyne and to the north and south of it. It attracts big enough crowds now and runs the risk of overcrowding with further amenity there. Further, the last thing I would want to see is development or interference with the natural reef south of the groyne, a reef which adds much to the natural beauty of the place, naturally helps with local surfing and enjoyment of the area (also great to swim around) and which is exposed to rough water and weather; what a disaster. The area nominated at North Cottesloe does not involve any interference with the ocean or reef, is not exposed to the ocean and rough water, is constructed over a section of dunes that are nondescript and is not as crowded in the summer. n however is not overdeveloped at all and the sand dunes	
Yes	1	2	3	After evaluating the schemes, option 1 has the least visual impact against the natural landscape and fits into its surroundings the most homogeneously.	I hope that this scheme is allowed the opportunity to develop and would like to see an Architect working with this team moving forward
Yes	2	1	3	actually i am not familiar with the name of each place. But I want the pool to be big and not based on saltwater	
Yes	1	2	3	Proximity.	
No	2	2	1	Not really in favour of any pools, but if it has to happen then the North Cott option with the least environmental impact, especially to the reef and surf waves. This pool being 50m and 10 lanes would be best for lap swimming.	
Yes	2	1	3	My preference is for an ocean pool as it offers a closer experience of swimming in the ocean but without the risk of sharks. I would also be keen for the Council to consider shark nets.	
Yes	2	1	3	Option 2 is lowest cost and provides greater tourism appeal to an area of the beach not optimally utilised. Option 3 is in north Cottesloe and is not an ocean pool. It will be too expensive to maintain.	
Yes	2	1	3	Safe swimming area from sharks and rough seas	Lanes good for worry free laps but a free area needed if you just want to cool off, esp late afternoons when there is rough sea.
Yes	2	1	3	Would be lovely to bring pool and beach life together so well. So many of us swim in both the ocean and the pool, the only downside would be the water temp! Hopefully we can make it warm! Why should cott be as iconic as bondi in Sydney!?! Would be awesome	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	2	3	I believe an ocean pool should be directly connected to the ocean so as to capture the essence of ocean swimming as much as possible - hence land based pool is least attractive of the 3 options. The prevailing sea breeze that Perth experiences for approximately 8 months of the year (and every day during the warmer months) will likely detract from the swimming experience in an ocean pool located south of the Cottesloe groin, as it will face the full effects of the breeze. It will therefore have the potential/likelihood of being under-utilised. Hence I believe an ocean pool located north of the groin, offering some protection from the prevailing sea breeze, is most appealing.	Whilst I believe the location north of the groin for an ocean pool to be most desirable, I feel care and consideration must be given to: 1. ensuring "connection" with the ocean is maximised, including keeping barriers as unobtrusive as possible; 2. minimising excessive sand build-up within the pool - noting this may be in direct conflict with point 1 above. I also feel that geothermic heating of an ocean pool is somewhat contradictory to the concept. And Perth already has plenty of options for heated water swimming. Overall I am very supportive of the concept of an ocean pool at Cottesloe beach, and feel it is long overdue.
Yes	1	2	3	1 is because I used to love to ocean swim but am to afraid now because of sharks and water polo is a great game 2 I love the Sydney beach pools 3 Swimming complex is needed for the public	
Yes				Definitely do not want an Ocean Pool, north of the Cottesloe groyne - this is a naturally calm, picturesque (iconic) part of our coast-line, where it is possible for swimmers of all standards to enjoy the ocean. An ocean pool here would ruin this natural resource, and the whole Cottesloe beach experience. I am currently a volunteer lifeguard at Cottesloe, and every weekend in summer, Mums and Dads bring their toddlers, babies here for their first dips in the sea, in a safe environment - very rare on our coastline, nearest to the city. Also, elderly swimmers can safely do their laps from groyne to pylon, in a patrolled area. Not to mention proficient swimmers also knowing they are in a patrolled environment. Personally, I would like to see the ocean pool much further south, between Leighton and south Cottesloe, in a less utilised part of the beach, to establish an additional beach destination.	I also have worked in tourism, for the Australian Tourism Commission, (as it was in the early 2000's), in Hong Kong and as a West Australian did as much as I could to promote WA tourism. The Cottesloe groyne, pylon and Indiana's building, is now an established part of the WA branding - having worked to establish this as a known image, it is inconceivable to think the council would consider creating a man-made pool in this environment. WA's major asset for inbound tourism is our natural environment, and an ocean pool, in one of WA's most iconic locations would undermine years of work. Threats from marine creatures are more of a problem, and the council, and State Government, should be placing more resources into these concerns.
Yes	2	3	1	I think the first 3rd option is the best. There is a shortage of pool space in Perth and water polo pools in particular and the North Cott site is in need of rejuvenation the most.	
Yes	2	3	1	Does not interfere with any other infrastructure or existing car parking. Does not impact on existing reef systems or exposed to the strong SW winds during summer and winter. The pool should be thermally heated for year round use.	After visiting the improvements at Scarborough Beach and its pool and facilities the Cottesloe Council should hang its head in shame. The facilities at Cottesloe are third rate and a disgrace.
Yes	1	3	2	The Club supports any option that allows for the sport of water polo. The club has run a Beach Water Polo Event at Cottesloe Beach for the past 4 years. Those competing have expressed their enjoyment of the experience. With the world governing body of aquatics (FINA) announcing the introduction of a world championship event for beach water polo an ocean pool provides a great opportunity for the sport of water polo to connect with the great Australian beach culture.	
Yes	1	2	3	Best and most efficient use of space	
Yes				don't disturb or take away from present Cottesloe beach.	
Yes	2	1	3	I believe south of the cottesloe groyne is the most ideal place, as once you go past the rock barrier, there is very little to see or do. Also this would be closer to where I live than putting it North	
Yes	2	1	3	Definitely number two! Update Cott beach!	
Yes	1	3	2	Icebergs in Sydney is the one of the best pools in the world.	
No					An ocean pool is too expensive and most people want to swim in the ocean not a pool. There are sufficient private pools in Cottesloe for their owners' use and so they won't need an ocean pool and most locals swim in the ocean. Cottesloe rate payers should not be asked to pay for something that non-rate payers will use.
Yes	2	1	3	Option 2 interferes the least with the iconic Cottesloe vista. It provides additional amenities and is an appropriate size. Option 1 is a less invasive option than option 3, however I am not convinced about the water quality and access and I feel it interrupts the Cottesloe foreshore too much. Option 3 is too far removed from the beach. is too large and too invasive on the existing Cottesloe foreshore.	
Yes	3	1	2	North of groyne would detract from an already established, popular beach area. South of groyne would receive the full blast of the SW breezes that frequent the coast almost daily in summer. Cnr Eric and Marmion is the best option for a Scarborough type construction. The latter is an excellent exemplar.	
Yes	2	1	3	Pool that is actually in the ocean only otherwise what is the point. Already too much going on landwise at cottesloe beach.	
Yes	3	2	1	Option 3 is the most aesthetic, and has more pro's than con's. High cost, but believe long term, the better option overall. Although if not 3, option 2 is a much better option than 3, 3 looks cheap and unappealing, a beach like Cottesloe should be aiming very high in terms of standards and aesthetics. 2 would have been my first option if there were more than just a little kiosk dumped in the middle, look at Bondi ice bergs for inspiration.	
Yes	1	3	2		
Yes	2	1	3	Parking available for 1 and 2 difficult parking for 3.	
Yes	1	2	3	option 1 is least impact and cost it is true ocean - just sectioned off for safety	
Yes	2	1	3		
Yes	3	1	2		
Yes					Frankly, I am singularly unimpressed with the details provided at the public meeting eg: • The total absence of any Estimate of Probable Cost (even benchmark costs from other developments) • The lack of transparency in respect of the fact that no mention was made on the night that each pool development had been proposed by private entities (other than the Eric St development) • The total lack of financial information on which to base our respective decisions. Given that fact that it is possible that a large number of people from outside the immediate Cottesloe area will benefit from the pool it will be important to know what financial burden will be placed on the ToC ratepayers • What contributions if any may be forthcoming from State Government and private donors. • An Estimate of Probable Cost for the development including additional parking • The total lack of any information relating to projected usage of the pool • The total lack of information regarding who would operate the facility - will it be owned/operated by private interests or by ToC? • The lack of simple comparisons between the options eg proximity to Mudrup Rocks applies to both Option 1 & 2 in the presentation. Same applies to proximity parking and other elements shown as a concern in some but not all options. Accordingly, in my view, the above and other key points must be addressed and need to be included in the Consultant's scope/brief before progressing to the next stage. Finally, where does the Town of Cottesloe stand - does ToC as a council want a pool? want a pool? we should consider spending the money on shark nets to make swimming at the groyne safe instead of a salt water pool
Yes	1	3	2	Option 2 South of Groyne as my preference is for true 'ocean pool' (like Icebergs) but this is highly qualified, including the following points: • I do not understand the need for incorporating a water polo facility - who even plays this? • I would like to see a children's area to facilitate safe swimming and away from surf 'dumps' • Further details required on location and scale of changerooms and public toilets for patrons • Refer below Option 3 but my preference is highly qualified including the following points: • There are Olympic size swimming pools at Claremont Pool, Bold Park Aquatic Centre, HBF Stadium and now in Scarborough - I do not see the need to build another pool of this type Applicable both options I do not understand why the provision of changerooms, parking requirements and other infrastructure were excluded from Worley Parsons scope/brief. In my view, these elements are important and must be considered. • Changerooms • Public toilets • Parking - how many people will come and where will they park?	
Yes	1	3	2		
Yes					
No				An ocean pool should be in a coastal position that has limited current use and that would not have an affect on the amenity of existing areas. North Cottesloe and Cottesloe Beaches simply could not handle the strain. Corner of Marine Parade/Curtin Avenue would be perfect as a co-operative project of Mosman Park, Fremantle and Cottesloe Councils.	
Yes	2	3	1	Great for locals as an alternative to cold ocean swimming , safer for weaker swimmers and kids. Provides all year swimming and therefore healthy alternative. Also fantastic option for tourists visiting the West Coast as most surf clubs will eventually all have pools!	Great tourist attraction and much better use of Perth greatest asset!!! These swimming pools and water polo pools (great sport) will be part of all surf clubs in the coming years as it is such a unique experience of our coast all in done in safety and comfort!!
Yes	1	2	3	An ocean pool is preferred to a land pool..having water pool facilities will provide an extra area of training for the prominent sport.	
No	3	1	2	No need for a pool when the beach is right there	
Yes	2	1	3	Greater utility	Which ever idea is chosen it is a great idea to put an ocean pool at Cottesloe.
No				The area in question is being utilised by a range of users already. If there is an attempt to change the bathymetry or include apparatus to cordon off sections of water this will change the usability of the area for users now. Many breaks around the world have been negatively impacted by this idea or completely destroyed. There is no guarantee this would not happen and any attempt at this would be in direct conflict with conserving the area as it is. There are many beaches that could be repurposed without this risk. There is no need for this at all.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No				We very much disagree that any ocean pool in Cottesloe is acceptable. We are fortunate to have one of the best swimming beaches in the world and our family have loved and appreciated this for generations. The extra traffic generated because of the pool would be difficult and we cannot see the need when we are already well served with good pools within a close proximity.	
Yes	2	1	3	I don't think it necessary to have a polo area.	I think it is important to provide a safe pool for swimmers not only to enjoy swimming but to keep fit.
Yes	1	2	3	I would prefer an ocean pool with low environmental impact and cost. I don't like option 2 due to the interference with Aboriginal site.	
Yes		1		I do not support options 1 and 3. Option 2 provides a pool which has the appeal of the eastern states ocean pools. Option 1 would destroy the best part of the swimming area at Cottesloe. It is the bit protected by the groin from the wind and has the smallest waves, suitable for children.	
Yes	1	2	3	My family plays water polo. I would prefer an ocean pool to a land pool	
Yes	1	2	3		
Yes	3	1	2	If option 2 is feasible, then I believe it provides the best Ocean pool experience, most similar to those on the East coast. I believe it adds to the Cottesloe beach as this area is not currently being utilised. I believe if designed appropriately it could enhance and highlight the Aboriginal sacred site. It minimises impact on Surfers and other current users of the beach. I don't believe the Sea breeze is a significant issue because the beach mainly gets used in the mornings before the sun is too hot and before the sea breeze.	I am concerned we have not been given adequate information as to the viability of all these options to make an informed decision on the preferred Option. I am also concerned that we have not been given any financial implications of all 3 Options, and the ongoing costs of them. The costs could definitely be prohibitive. Given the concern with regards to the costs and viability of these options, I STRONGLY REQUEST Council consider looking into installing a SHARK BARRIER along the beach. A Shark Barrier is beneficial because: 1. It could be rolled out for next summer 2. It is significantly cheaper than a pool in terms of upfront cost and ongoing costs 3. Everyone can still enjoy a true Ocean experience, 4. It has far less impact on the environment 5. Is not a permanent change to the Beach, and 6. Solves the main concern of Shark attacks. An annual leasing fee could be negotiated with the Shark Barrier company, including maintenance, so that the Council does not pay a significant upfront cost. This further takes the risk away from the Council if the Barrier were to fail. The Barrier could be removed in the Winter months so as not to effect the surfers, thus also increasing its longevity. The technology has significantly evolved and is now capable of handling the conditions, if managed effectively.
Yes	2	3	1	Option 3. The land based pool will offer much greater flexibility and more options for users. Option 2 is too exposed to sw winds and disrupts the natural reef area used for surfing in an area that has very limited surfing options. Is isolated and less visible to passers by therefore removing the natural advertising of its existence. Option 1 creates a perception of separation and exclusivity from the community and potential users by its positioning. Is isolated and less visible to passers by therefore removing the natural advertising of its existence	
Yes	3	2	1	Less environmental impact and very accessible for all abilities.	Please consider a shark barrier. I know researchers were trailing a barrier in South Africa that used metal chains and pipe that seats like kelp/ seaweed. It provides a moving barrier that sharks don't want to swim through and a place for native animals like sea dragons to shelter.
Yes	2	3	1	Most flexible	Been discussing for fifteen years whilst Council procrastinates - get it done quickly.
Yes	2	1		1. A pool on the South of the Groyne will not take space from the main beach. 2. Surely a pool on the north of the groyne will be vulnerable to the North West gales. 3. A pool inland between Cottesloe and North Cottesloe is using valuable spare vacant land of which we have so little.	
Yes				Ease of use	
Yes	2	1	3		
No					Plenty of good safe swimming available. Money better spent elsewhere. Not enough room for parking. Cott is too crowded on weekends and fine weather.
Yes	3	1	2		
No	3	2	1	NOT: My preference is for NO POOL. I have only nominated preferences if the decision is made to proceed with the pool	
Yes	1	3	2	Option 2 has the potential to ruin both the marine habitat and the very popular surf breaks south of the groyne. Perth does not have many true reef breaks, and you would be removing at least one of them.	
Yes	2	3	1		
Yes	2	1	3	Personally, I'd prefer an ocean pool that is actually right by the ocean, rather than having it on the corner of Eric street (hence, why I out that as third). As for the other two, I feel that including a water polo pool may be a bit unnecessary, and so would only result in added costs without too much of a gain.	
Yes	3	2	1	Option 1 would be tragic. It would ruin Cottesloe beach and the existing groyne already creates a shelter for swimming when the sea breeze is in. Cottesloe is the best beach for young children, elderly and is the most famous Perth beach for tourism etc and to cover it with a man made poolside block the gentle waves would be criminal.	
Yes	3	1	2	Option 2: Iconic position - beautiful outlook, at sea level Good use of space, currently not used for any other purpose Option 1: Absolutely NOT. Takes the most protected swimming area away, which is currently well used as it is. Option 3: No parking	
Yes	1	2	3	An ocean pool is a fantastic idea - having it south of the groin, however, pulls it away from Cottesloe beach. I think a pool North of the groin, actually part of Cott beach is the only way to go.	
Yes	2	1	3	Option 2 utilises the southern side of the groin, which is poorly accessed and little used, and is the most aesthetically sympathetic. Option 1 takes up too much of the popular beach area. Option 3 is removed from the sea, is too public for general use by anyone self-conscious about perceived disabilities.	
Yes	2	1	3	The 2nd options is less invasive to the beach scape and looks amazing	
Yes	1	2	3		
Yes	2	1	3	Want it to be in the ocean - not on land. South of the groyne looks better	
Yes	3	2	1	Option three enables both a lap pool and a water polo pool, so many sporting groups can make the most of it, and it doesn't take up space in the ocean where swimmers still like to swim (aka option 1) - I personally would still like to be able to swim down to the groin and back up to Swanbourne.	
Yes	3	1	2	Option 2 is the only setting in existing rocks for a "proper" ocean pool and best utilises a currently under-utilised part of the Cottesloe beach.	I think funds would be better spent on a summer only shark barrier from Cottesloe groyne across to the already in place needle.
Yes	3	1	2	Option three will utilise a largely unused space and offer a bigger range of facilities to suit a wider audience. I feel the area around the groyne at Cottesloe is already very busy with both pedestrian and vehicle traffic and an additional attraction would cause problems with overcrowding in this area. The location of option three has better access and would bring people north of the main Cottesloe beach and spread more evenly along the coast.	
Yes				It will be a brilliant resource for Waterpolo WA and Australian Waterpolo. It also won't impact the iconic Cottesloe Groin or the reef area south of the groin.	
Yes	3	2	1	Provides a place making strategy for North Cottesloe precinct, favouritism for Cott Main is overwhelming and has promoted the social degradation of the North Cott precinct. It has become an area for "getting on the lash". Encouragement of other social activities might help mitigate the rampant alcoholism that consumes it.	Both location 1 and 2 improve what is the worst possible symbolic icon for cottesloe the Indiana tea house. A building of the 90's stylized - presumably - on the Dome franchise but worshiped as a gleaming chapel to all that cottesloe-ites hold dear.
Yes	3	1	2		
Yes	3	2	1	Option 3 may have less of an ocean pool experience but I think it will add vitality to the cottesloe beachfront which is currently lacking when compared to other urban beaches of significance. Perhaps there could be a way to integrate another pool in addition to the lap pool that could offer more of an ocean experience? The location of option 2 may jeopardize other activities that currently exist in the corner of the groyne... I feel that area is currently used by swimmers for its feeling of safety from a surf and shark aspect Option 1 would be a great location but I feel it needs more amenity and development to occur on that node- possibly integration with the surf club or a long boarders club? and possibly even a restaurant or function venue? It would be a great ocean pool but I fear it is too isolated in the current design...	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	3	2	This would be a fabulous addition to the Cottesloe beach precinct. Feel like the area south of the groyne would disrupt the surfers more so this is my last preference. If there is not enough support for a pool a shark net enclosure similar to Sorrento or South Coogee is critical and perhaps even an interim measure prior to the pool being built.	
No				We don't NEED a pool there. Environmental degradation, spoiling the natural beauty of the area, WINTER STORM DAMAGE, more people cause more parking/more traffic/more shops. Scarborough is going to become a ghastly copy of the Gold Coast and we don't need to repeat that in Cottesloe. All of these concrete erections become very tired quickly and look like they've been there forever - like Sydney. LEAVE THE BEACH ALONE!	I know Mark McGowan wants this - tell him and Andrew Fisher to put it in Rockingham, together with Scarborough's 40 storey hotel
Yes	1	3	2	Option 1: Would be great to have an ocean pool large enough to host water polo and swimming, it is the best of all 3 options. Additionally we are very far behind the eastern states in which they have ocean pools at most beaches; which allow a safe space to swim away from sharks. Option 3 & 2 are in that order based on personal opinion.	
Yes	2	3	1	I prefer the integrated boardwalk plus feel for option 3. I prefer the pool to be north of the groyne hence my preference for option 3&1 both. But I prefer to have a pool than not have one, and hence I would still support option 2 south of the groyne.	
Yes	2	1	3	Less impact on existing beach area.	
Yes	2	1	3		
Yes	1	2	3	Lack of environmental impact, Option 1 is lowest cost option. Shelter from sea breeze. Positive swimming experience.	
Yes	2	3	1		
Yes	1	3	2	Great venue for swimming. Incorporating water polo pool will allow tournaments by the sea like played in Europe and Sydney. It would be a great addition	
Yes	1	3	2	I think it would be great to have an ocean pool where people can swim in the ocean safely all year round. Land based pools provide greater controls over conditions. Keeping out stingers and other marine life. Lighting may be easier to do at a land based pool. Heating and sheltering a pool appropriately will allow the pool to be used all through the year.	
No	2	3	1		
Yes	2	3	1	Larger pool and better accessibility	
Yes	2	1	3		
Yes	2	3	1	Option 3 will draw visitors to Cottesloe along Marine Parade to North Cottesloe. There is a close car park to the pool. Less impact on the environment. Option 1 draws people away from the groyne and spreads the load along Cottesloe beach. South of the groyne isn't as appealing due to lack of car parking and surroundings.	I play water polo and swim so would like to see another pool and water polo specific pool as with the growth of the sport pool space is now hard to find. The area at the bottom of Eric st is positioned well with a car park close by and established cafes and businesses ready to serve patrons. I grew up in the area and feel a pool would provide fitness facilities for all ages, new sporting clubs to the area for the ever increasing number of residents in Cottesloe, Swanbourne, Mosman Park, Claremont and surrounding suburbs. It would also use the dune area, which is vacant land at the moment in a productive manner providing a public centre for all to use to improve fitness and well being.
Yes	2	1	3	I like the south side for this proposal because it is more suitable for the purposes of an ocean pool. North of ground has less environmental impact than south. Groove presumably has less running costs than north cove	
Yes	1	2	3		
Yes	2	1	3	I think south of the groyne wouldn't impose on the already established beach space used by regular goers, provided there isn't a big impact on the existing reef	
Yes	2	3	1	3 provides most flexibility and utilises an area that is currently unusable or not that user friendly	Just get on and do it - we need more amenity to compete with Scarborough and City Beach
Yes	2	3	1	I believe that a pool in North Cottesloe would be used regularly by locals as well as surf club members. A pool south of the groyne would not be appealing due to the windy conditions.	
Yes	3	2	1	Seems to have the least impact on the environment and will spread out the people from the main centre beach of Cottesloe.	
Yes	3	1	2	Have always thought a pool should be built on Southside of groyne .	
Yes	2	3	1	Option three sounds great and will be bigger and more useful.	
Yes	2	3	1	Option 3 in my mind would be the best option to address the public safety e.g sharks, winter swell and getting swimmers of all abilities involved without taking the beauty or surf way from cove main beach... As a keen all year round ocean swimmer, surfer and water polo player this would be great for the area.	
No	1			Option 3 might affect the Cove and Isos surf breaks Option 2 will attract crowds to the currently peaceful and beautiful north Cottesloe esplanade area	
Yes	2	1	3	I am strongly in favour of design number 2 by Trevor Saleeba. I've lived in Cottesloe since I was a young girl (I'm now 41) and as a keen swimmer and beach lover, ive always supported the concept of an ocean pool for our suburb. I lived in Bondi for 10 years and have seen the way the pool functioned as a hub to bring the local community together and encourage exercise. I don't like design number one as it takes away from the beautiful beach amenity - the sheltered bay where young families, including ours, love to swim. I think it would also not be as aesthetically pleasing. And I am strongly against design three. I live in North Cove but I think it makes no sense to shove a pool above the beach, next to cafes. I think it's an ill conceived band-aid solution. Design number two will go some way to improving the vibrancy of what should be Perth's premiere beach. And provide an area where people can swim without the fear of sharks.	Please allow smart development of the beachfront. It's crying out for a revamp to enhance its natural beauty and appeal.
Yes	2	1	3	Option 2 appears to be the most favourable location and traffic would have the least impact. It should be an Ocean Pool not a land based pool.	
Yes	2	1	3	South of the groyne would best fit with existing facilities. Important to have an ocean feel with the ocean having a direct entry.	
Yes	3	1	2	An all season swimming and water polo ocean pool will be a big attraction similar to Bondi Icebergs. Nothing like it on the WA coast.	
Yes	1	2	3	Ocean based pool is much better and easier to maintain, plus it's much more natural and fitting with the area and culture of Cott. You'd definitely need to put it North of the Groyne out of the exposed South Westerly wind. If it's on the exposed side then it will be battered by the prevailing weather and then require much more maintenance and repair over time. Just look at the Pylon and the required maintenance for that! Plus if on the exposed side, it won't be as conducive to use as it will be both choppy regularly and colder /exposed rather than the protected north side of the Groyne.	
Yes	1	2	3	As both a swimmer and a lover of the beach a pool located next to the groyne would be amazing in summer	
Yes	3	2	1	Eric st option easy access for all ages and abilities, away from storm and tide effects. Year round access. It will enhance general appeal of the precinct.	
Yes	2	1	3	for any pool to be really useful to the community it needs to be 50m Siting it south of the groyne avoids impacting on the beautiful curved and protected beach that already exists just north of the groyne	long overdue
Yes	1	2	3	* Development of a pool is critically dependent on ongoing costs and liability for the Council and ratepayers. It should only proceed if the ongoing operating costs, including insurance for liability, is at an absolute minimum. * As well as engineering issues associated with the pool, consideration must be given to public access, for example parking. For this reason, option 3 is impracticable.	
Yes	3	1	2	I am a avid ocean swimmer, competing in ocean races across australia, and having a proper ocean pool like option 2 to train in would be a delight. The other options do not appeal in the slightest, 3 is just an ordinary pool; and option 1 is an eyesore!.. i wouldn't want to swim in it. I am also a father, and option 2 would be a wonderful experience for the kids to learn to enjoy ocean swimming with no fear.	Having just moved to Perth from Sydney with my young family and training in the Icebergs pool for years, I have fallen in love with Cottesloe and the magnificent sunsets and can't wait to train in this pool while the sunsets!!
No					I dont see the need for a pool. We should be encouraging people, especially children to us the ocean. If people want to swim in a pool rather than the ocean why can it not be somewhere other than on the beachfront? A pool is an expensive exercise costing Cottesloe residents to be used by people from many other suburbs. Rather spend the money on beautifying the beachfront and other parking options such as underground.
Yes	2	1	3	Ocean pool would be an amazing facility swimming in ocean water in a controlled environment on the beach Can't get much better than that ! Swimming lanes would be the most popular choice for most people to use and the Groyne provides a rock bed for the pool .	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	1	3	Option 2 is ideal for the young and the elderly with easy access & protection near the groyne.	
Yes	3	2	1	Improved safety improved amenity We previously had one - nothing new!	Get on with it
				It would be good to have the pool at north Cott that is why I went with option 3 as my first. However I do not mind if it is an ocean pool as we do not yet have one of these in Perth.	
Yes	2	3	1		
Yes	3	1	2	South of the ground is no impact to humans and marine life.	
Yes	3	2	1	Option 3 all the way	
Yes				The reef proposal is similar to the ocean pools in Sydney. The seabreeze/tides will naturally help drain and fill the pool. Hopefully this will minimise ongoing expenses for taxpayers. South of Cottesloe will be a safe option for kids and adults who are deterred by sharks. The other two ideas are not appealing as it will change the look and feel of Cottesloe. Also ongoing costs would likely be more expensive.	
No	1	3	2	A lot of people make use of the reef South of groyne for surfing and snorkeling. Building on the ecologically frame reef is bound to impact the wave and likely to negatively impact the marine habitat	We have the most beautiful swimming beach. No need for an ocean pool. If you must build one, build on the area immediately north of the groyne. I.e southern corner of the Cottesloe beach
Yes	2	1	3	Cottesloe Beach, rather than North Cottesloe, is better suited as a location for an ocean pool.	The pool should be funded from the Town's recurring income and from donors. Ratepayers should not have to pay more for the pool. Assuming Option 1 or 2 is adopted, the Town should also take the opportunity to make Indiana Teahouse a leading restaurant precinct. It should be Perth's version of Icebergs overlooking Bondi Beach.
Yes	3	2	1	I'd prefer the land based so I can swim in a regular pool but be near the ocean.	I'd mostly like a shark barrier between Cottesloe and north Cottesloe beaches so I can swim in the natural environment of the ocean - not a pool - without fear of sharks. Please please just do something to make our beaches safe and enjoyable to visit.
Yes	3	2	1	north Cottesloe was the premium beach now because of the shark fear is now avoided	
Yes	2	1	3	It should be based at Cottesloe and be a genuine ocean pool (which is why Option 3 is my least preferred). Would prefer to have a 50m pool like icebergs. Options 2 and 1 are both outstanding, and all Options (including 3) would be a great improvement to what we have now.	
Yes	2	1	3	Geographically the only option and the best design	
No	1	2	3	I don't support any pool on the west side of the shared path. However the North Cottesloe proposal is the least acceptable as this part of the coast is already heavily used with the OBH and restaurants and will create significant parking problems. It will also severely impact the views along the coast particularly when you are walking on the beach. The recent developments at City Beach are a good example of how to ruin the experience of being on the beach. The south of the groyne proposal will impact heavily on the reef which is part of the protected Cottesloe Reef Habitat and should not be allowed to proceed. We must continue to protect this vital natural environment that we are lucky enough to have on our doorstep. I recall that much of the Mudurup area is a protected site and has significance for Aboriginal people. This must be respected. Again a structure here will spoil the wonderful wide open views along the coast and across the sea. The north of the groyne proposal will interfere with the beautiful sheltered swimming area that already exists.	At a selfish level the idea of a salt water pool is appealing. However the impact on our already heavily used beach is not acceptable. The attraction of this part of the coast is its naturalness and is what makes Cottesloe Beach attractive to visitors and locals alike. For many years the Town has had a firm policy not to build on the west side of Marine Parade and there is no reason to change this. I also have significant concerns about the ongoing costs for maintenance and insurance for any pool proposal which will fall on ratepayers.
Yes	2	3	1	I like the proximity to parking, I like the proximity to the surf club, and I like the idea of being able to hold events such as water polo there.	
Yes					
Yes	1	3	2	I play water polo and would love to play a Summer competition at Cottesloe beach.	
Yes	3	2	1		
Yes	3	1	2	Is the only true ocean pool proposal. Compliments the natural beach - does not interfere with the beach. Will provide a safe all weather swimming option. Will give a significant boost to tourism and the existing commercial strip of Cottesloe beach. Will provide an iconic beach facility to anchor Cottesloe beach as the premier beach. Provides the full range of facilities for kids through to adults. will not interfere with any other beach or surf users. Offers an iconic facility to promote WA and Cottesloe in the same way that Icebergs does for Sydney and Bondi - eg fashion shoots, Sculptures by the Sea, etc	All the reasons explained in my earlier report.
Neither	1	2	3	Ocean based pool is much better and easier to maintain, plus it's much more natural and fitting with the areas. You'd definitely need to put it North of the Groyne out of the exposed South Westerly wind. If it's on the exposed side then it will be battered by the prevailing weather and then require much more maintenance and repair over time. Just look at the Pylon and the required maintenance for that! Plus if on the exposed side, it won't be as conducive to use as it will be both choppy regularly and colder /exposed rather than the protected north side of the Groyne.	
Yes	1	2	3		
Yes	2	1	3	South of groyne will have least impact on the Cottesloe Main Beach. Will most likely be the most cost effective. Will not impact on surfers using the Cottesloe Main Break during winter. The South of the groyne option should not impact on surfers riding the break on the south of the groyne.	
Yes	2	1	3	My preference is to have an ocean pool and not a land based seawater pool but I am relatively relaxed between Option 2 & 1	
No	2	3	1	If people want to swim in a pool there are plenty of pools that already exist. We have wonderful marine ecosystems and natural limestone landscapes they should not be destroyed just because people want more amenities. The reef platform south of the groyne is a gem I am prepared to fight for.	
Neither				Where is option 4 - no pool. This is the third email I have received to respond to an online survey for an ocean pool. I have already responded to the first email. I do not want an ocean pool. An ocean pool is completely unnecessary and is being promoted by people whose ego gets in the way of logic and rational thinking.	I do not want an ocean pool. My family does not want an ocean pool because: Option 1 - north side of the groyne will destroy the contribution that Cottesloe has to tourism, the environment and people who simply want a swim in a natural environment. This Option should be rejected outright. Option 2 - Depending on the weather south of the groyne is heavily used by surfboard riders, kite surfers and paddle boarders. To impose a 50m pool on this heavily used area under the pretext of tourism shows total disregard for its current use by the dedicated surfing community. This Option should be rejected. Option 3 - A saltwater pool on the sand dunes of Cottesloe near the NCSLC lacks any understanding of climate change and soil erosion. This Option should be rejected. Management and maintenance costs of any pool are horrendous. The small ratepayer base of Cottesloe should not fund any pool for any reason in the name of tourism, economic reasons, nor 'progress' for Cottesloe. A pool of any type is a lemon. Do not be swayed by fast talking promoters who fail to see that Cottesloe already is a jewel in the crown of WA.
No				There are a multitude of pools provided all over Perth. Pools for physical rehab, walking, swimming, lessons, babies etc etc I don't want any pools anywhere near the beach. We have an amazing beach. Why spoil it?	
Yes	3	1	2	Option 2 is a true ocean pool and sits in a solid base. This is my preferred option for connection to the ocean, safety, aesthetics and outlook. My only concern is that Aboriginal heritage is fully taken into account. This should include liaising with Aboriginal community groups. Option 3 helps spread out Cottesloe Beach use. Option 3 while well Rea searched is my least favourite. The outlook from the pool is not good. It eats into the main beach use and compromises winter surfing.	I believe s seasonal shark net should also be fully explored.
Yes	2	1	3	Ocean pool has greater appeal. Being on the south side allow us to maintain the protected swimming area to the north of the groyne.	This would be an exciting development fro Cottesloe. Let's get on with it.
Yes					
Yes	1	2	3	Preferably at Peters Pool - natural basin as it is surrounded by reef. Ocean pool south next to groyne - not sure surfing, fishing area. Land based saltwater pool - parking wherever it is will be a problem.	I lived in North Cottesloe (during my childhood + later 25 years) not far from the beach which was our main form of leisure. We always walked there and I have followed in my father's footsteps swimming each morning during the summer months. The groyne is already a very busy beach with volleyball, swimming events (surf club etc) and now evening events. The proposed closure of the large car park is to me a far greater concern than the installation of a pool. Added to this, the proposal of a restaurant at the end of the groyne will take away pleasure from those who fish there and like to stroll to the end. The Scarborough Beach pool complex is a great asset which is catered for by a large car park nearby. I think the parking problem which will occur with the closure of the car park north of Cottesloe pool will create enormous difficulties in an area which is already congested during the summer months. The building of a pool will bring larger numbers to our beach. Please attend to the parking before considering an ocean pool. (Let us hope the restaurant never happens).

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	3	1	Having lived in Cottesloe for several years and now a regular visitor I prefer the second option to all the others. Cottesloe beach is iconic and I feel that option 2 preserves the integrity of the current beach whilst it enhances the southern side of the groyne. The idea of a saltwater pool is most appealing. I have recently visited another iconic beach, Bondi, in NSW and that speaks of the ideas suggested in option 2. The traffic and congestion is very evident at Eric St/Marine Parade, particularly in summer and on weekends, thus moving a project further south would spread out the traffic.	
Yes				A necessary antidote to sharks Enabling access to the ocean for all Wonderful Town resource	
Yes	1	2	3	Option 1 is lower cost and looks more "natural" with the pool effectively a groyne extension. I do not want Option 3 and would prefer no pool to that choice. Too big, too expensive and too formal. With Option 2 it would depend on the cost. That it resembles other ocean pools such as at Bondi is appealing. The isolation is a bit of a negative.	
Yes	1	2	3	Make use of the natural sea water but not to encroach on swimming area.	
No					I'd prefer a summer only shark net.
Yes				If pool outside the sea then salt water, heated and a decent size with lanes so it can be used all year round and perhaps solar heated in some way, if in the ocean then shark protected, lane dividers and decent size. I do swim at Cottesloe and I have noticed a lot less people swim in the last few years due to the shark attacks, if there is a safe pool site many more people would swim and this is a great way to keep fit. Violet (Vicki) Payne	
Yes	2	1	3	South of the groyne creates a broad appeal of new amenities without infringing on the existing popular beach, also utilises an underused area.	
Yes	2	1	3	It seems the most reasonable way to easily incorporate the ocean into a salt water pool without impacting on the iconic Cottesloe Beach.	
Yes	3	1	2	I don't really care if there is a pool there as I prefer to swim in the waves, but I'd rather a pool on the south side where it wouldn't change the aesthetic of main Cot the sloe beach	Whichever you do, please limit the environmental impact on the reef life, I enjoy being able to snorkel on the reefs between south and north cott, which I would be really annoyed if they got ruined so that people could use a pool that could be put anywhere else
Yes	2	1	3		
Yes	3	2	1	I am so enthusiastic about the idea of an ocean pool being built. Option 3 design is most desirable with best location. Will be a real hit	
Yes	1	3	2	Sounds like it would be great fun. It would also be good to bring down some mates to play water polo in the pool while also able to go for a swim in the beach. don't need to choose between the two.	
Yes	2	1	3	is the best option.	Any development around Eric Street I consider to be difficult, there is already traffic issues, the speed limit would need to be dramatically reduced in order to have any further developments.
Yes	1	3	2	We would like to hold marquee events for water polo at the pool to showcase water polo on our beautiful beaches.	
Yes	3	2	1	The ocean would be a great place to have a water polo pool and competition with growing interest in the sport in WA and beautiful beachside location. This is a very successful investment and proposition for sporting events in the east coast where this is available.	This could provide a great opportunity to increase tourism, revenue and events within the region and interest to WA and bring more travellers and sporting events to the West such as water polo.
No				My preference would be to have an ocean barrier during the summer months from the Cottesloe groyne to North Cottesloe SLSC. This would protect swimmers from sharks and it would give a safe area for swimming this very popular stretch of water. Sorrento has proved how popular this form of ocean area is with the public. A barrier would not affect any other water users being surfers or surf life savers.	
Yes	2	1	3	Option 2 provides the least disturbance to the existing beach and seascape.	I think it is good that the Council is looking at the ocean pool but really the focus should be on the area between Forrest Street and Eric Street. This area is disgraceful and the Council should be embarrassed that they have done nothing to this area since the 1970's. The ownership along the beachfront is generally fragmented by strata ownership and as such the Council is the only body with the capacity to make real change. There is a very easy simple cost effective way to upgrade the beach and pay for it at the same time. 1. Relocate the parking from in front of the Cottesloe Hotel to the Napier Street car park area. 2. Redevelop the existing car park on the beachfront into a recreational area 3 Sell the air rights above the Napier street car park for apartments with the car park below. Go to 6 stories - this will fund everything that is required in the redevelopment of the beachfront including the pool. This is simple common sense that should have been done decades below.
Yes	2	3	1	Near the ocean will be cool And water polo pool is good	
Yes	3	2	1	The pools either side of the ground would be a disaster when they get smashed by the winter storms. They encroach on natural reef and popular surfing spots. Option 3 has easy access and doesn't impact the seashore.	
Yes	1	2	3	It will provide a fantastic opportunity for the community to have a world class facility on the beach, draw greater diversification to the area and provide residents the opportunity to see a world class game in water polo.	
Neither					
Yes	2	1	3		
Yes	3	2	1	I want the pool to have the least impact on the environment and I don't think the pool should remove coral reef areas. If pool was in the ocean it could contaminate it	
Yes	2	3	1	3 will be part of the whole Barchetta /Blue Duck area. It has accessible parking in the Napier St carpark. I chose Option 1 because there is a provision for water polo, which is a fabulous game that many Western Australians would see played and may then want to play themselves. Option 2 would be just as acceptable if there is a water polo capacity. Option 3 concerns me because of potential damage to the reef.	Please get it done - there is a huge appetite for an ocean pool here in Perth. The ocean pools in Sydney are widely used and much loved. Let's do the same here!
Yes	2	3	1	I believe the North Cott proposal is the best in terms of amenity. My only concern is car parking and congestion at the Eric Street / Marine Parade intersection. I don't mind option 1, however I believe it will be less inviting to use in winter. Finally, option 2 is isolated and exposed, making it unappealing. Option 1 delivers better parking and public amenities. Option 2 delivers a better and more exciting swimming experience, however it is more isolated and does not share the conveniences of Option 1. Option 3 is only if Option 1 and 2 do not proceed.	
Yes	1	2	3		
Yes	1				
Yes	2	1	3	I like the idea of a proper ocean pool.	
No	3	2	1		
Yes	2	3	1		
Yes	2	1	3	I am concerned about heritage impacts of preferred Option 2 but trust that they can be addressed in consultation with representatives of the aboriginal community. Perhaps this option offers a chance to interpret and showcase this heritage to locals and tourists alike. Any pool proposal must be accompanied by a public transport infrastructure to support the increased number of visitors (without requiring acres of car parking) e.g., park and ride facility from Cottesloe station with shuttles at frequent intervals	
Yes	2	1	3	If we are going to have an ocean pool it needs to resemble the experience of the eastern state rock pools and we need one of those to attract tourists and let them swim safely (they are all scared of sharks!)	
Yes	2	1	3	I think an ocean pool is preferable to a land based pool	
No	3	2	1	The area north of the groyne is already perfect for swimming and protected. Claremont pool is really close and the Ocean in Cottesloe is great for swimming in.	
Yes	3	1	2	I think the pool will be more accessible to the public at the Eric Street location and hence get the most use.	Course I was in desperate need of some public infrastructure and upgrades. I certainly hope this happen soon.
Yes		1	2		
No	2	1	3	I don't want a pool because we have a beautiful ocean to swim in and I don't want to be paying to maintain the pool. Also Cottesloe beach area is a beautiful spot and don't want to see a concrete/stone pool which is going to be overcrowded with people.	
Yes	3	2	1	North Cottesloe would be an ideal location for the ocean pool and would spread crowds out between Cottesloe slsc and swanbourne slsc. Ocean pools are a fantastic offering to the public and nsw has them on majority of their beaches.	
Yes	2	3	1	I think North Cott would be the better location, to keep Cott main intact.	
Yes	2	3	1	I like Option 3 as I believe the pool will be more accessible to the wider public in that location. The pool will also look nice from the street and there appears to me more space to fit it without changing the existing use of the land.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	2	3		
				The point is to be able to have an ocean swimming environment that is safe and enables long continuous swimming. - Option 1 gives the closest experience to ocean swimming - Option 1 is more convenient than Option 2 which is a bit "out of the way" and seems isolated from the beach - Option 3 does not appeal from an ocean swimming perspective and will be more like any other "pool" experience	
Yes	1	2	3		
Yes	2	3	1		
No	3	2	1	The council should not waste money on a feasibility study. I have only seen ocean pools built along rocky coastlines, like possibly the small area south of the groin.	I would like a shark net protecting Cottesloe Beach.
Yes	1	2	3	We desperately need more aquatic sports space, particularly water polo. We could sell Perth to the world with events.	
Yes					
Yes					
Yes	2	3	1	Close to parking and doesn't interfere with the general environment.	
No	1	2	3	Least offensive. I don't like the idea of an Ocean Pool at all, and think it will have severe environmental effects.	
No					people of Cottesloe exercise at and enjoy the following close by sustainable pools Claremont Pool Bold Park Pool Fremantle Pool etc. The ocean is what makes Cottesloe a lovely place to be Staff time would be better spent banning use of plastics by users of the beach! Kind regards Thanks Pam
Yes	2	1	3	Having the eight lanes on the south side of the groyne, seems an ideal option.	
				Option 2 provides a true ocean pool in the style of the Sydney beach pools. Allows for ingress of ocean/waves at times, but provides protection for swimmers. Low maintenance. Low cost of pumping water in (close to sea level). Reef provides the level base. Parking and access options from all directions can be developed. Doesn't affect amenity of nearby residents or facilities. Adjacent to patrolled area. Not affected by rising sea levels - could easily add to height of outside wall.	Arguments against Option 1: Reduces already limited area of Cottesloe main beach. My observation is that sand levels vary a lot over time. This may affect the depth in the pool area. Unlikely seaweed will flush out, and if it doesn't, costly/difficult to clear build up. Arguments against Option 3: Parking already difficult in vicinity of North Cott beach. Highest cost option, therefore greatest financial risk to Town of Cottesloe ratepayers. Sacrifices existing attractive recreation space. Site atop primary dune is at long-term risk due to coastal erosion. See for example "Draft Coastal Hazard Risk Management and Adaptation Plan - prepared for Shire of Gingin by Cardno - 31 January 2018".
Yes	2	1	3		
Yes	2	1	3		
Yes	1	2	3	I think that Multi use would be of greater benefit by including water polo facilities ! The Northern side would not impact any damage to the reef and therefore be less restricted in design!	I do believe this would truly enhance Cottesloe and really put the place on the Map! Ocean pools are an icon of Australia's East coast and apart from the day to day users the spectacle of water polo tournaments and swimming carnivals combined with festivals and promotional events would not only benefit the local community but would show case the state at large ! I do believe lighting for night use should also be considered for optimum usage
No				CTC needs to concentrate its efforts and resources for the amenity of its ratepayers. An ocean pool needs to be the responsibility of State and/or Federal governments	Council's spending priorities need to be in more in lined With ratepayers needs and expectations i.e. Street lighting, general security lighting, footpaths, Lane ways,verge maintenance and the like. If an ocean pool is imperative, Let private enterprise finance it, maintain and operate it.
				The sea pool south of the groin is the most sensible option. It would be a great community and state amenity. I think a 50m pool is imperative to the pools success and Provide a safe swimming option all year round without impacting on the environment. I urge the Council to get behind this great idea and get on with it. Councillors are elected to make decisions and lead. Let's not sit on our hands and let this great initiative slip away.	
Yes	3	1	2		
Yes	1	2	3	I'm for water polo so my vote is for a pool that can also accommodate water polo games. I'd prefer an ocean pool as there isn't one in Perth where you can play water polo, so it would be a unique experience that would attract the whole water polo community.	There aren't enough deep water pools in W.A. to accommodate the demand for water polo, synchronised swimming or diving. If you were to build a pool, the additional investment would be well worth it, as these sports are desperate for pool space and the demand for its use would be high.
Yes	2	3	1	I prefer option 1 as I like the Cott groin area as is for swimming, surfing and paddling. The option 3 will utilise land currently not used and not impact with the beach area. It will also provide facilities that can be used year round. It would be a great addition to Cottesloe.	
Yes	2	1	3		
Yes	2	1	3	South of the groyne at the moment is underutilised.	Not much point of a land-based pool
Yes	2	3	1	Option 3, less environmental impact, existing change rooms facilities could be upgraded and utilised, visually attractive position from street level. Option 1, good use of community facilities if water polo area is included as well.	In general, am happy to support any of these options.
Yes	1	3	2	Want water polo pool and having a real ocean pool in WA will be fantastic.	No
				Option 1 allows swimming into the ocean, protected by a groin type structure and entry into the pool. Option 1 should be extended to 50m not 25m The additional cost of 50m seems modest given the enhanced outcomes	I am a resident and owner of a house in Cottesloe Option 1, but, extend the pool lanes to 50m More broadly, take professional advice, rather than running a popularity contest.
Yes	1	2	3	No point in having a non-ocean pool in Cottesloe	Love the Sydney ocean pools.
Yes	2	3	1	Think North of the groyne is better location.	
Yes	1	2	3	Option 1: Favours the availability of public amenities and car parks. Option 2: The swimming experience of option 2 is the best of the 3, however the isolated position which will possibly attract undesirable activity is a concern for local residents. Option 3: This is an option (by default) should Options 1 and/or 2 not proceed.	All options are unnecessary. The beach provides sufficient safe amenity for thousands of visitors and residents. Additional cost should not be borne by ratepayers.
No					
Yes				Sensational idea.	
Yes	3	1	2	It'll make the beach a much nicer and safer place to swim.	
Yes		1		It is the least invasive of the three It will cost far less to install and will be a genuine rock Pool. That will greatly enhance tourism.	
Yes	3	1	2	It would be an amazing addition to the beach. In NSW these types of pools are almost at every beach you visit and add such character to the area.	
No	1	2	3	Should spend the money refurbishing the change rooms at Indiana's tea house	
Yes	2	1	3	Pool south of the Cottesloe groyne will be the less evasive. Pool north of groyne will take up valuable beach space. Pool at North Cottesloe is west of Marine Parade and will disrupt the sand dune environment.	
Yes	1	2	3	North would be a more central location, and I think south couldn't accommodate the space as well. I like option 3 the least as its land-based and less unique	
Yes	1	2	3	option 1 has swimming lanes and water polo so good to see team sports included. option 2 is a great site for a pool and like option 1 is an ocean pool and won't impede on the beach area. option 3 is shoehorned into a very small area of land and beach and not an ocean pool. It's great at Bondi, in rough weather, watching the waves break over the wall.	
Yes	1	3	2	Bringing water polo to the area would be an amazing idea for the community.	
No				I don't believe any of these options is wise.....the concerns for each option expressed in the presentation from the community workshop are evidence of this. I also believe any ocean pool would be a white elephant for much of the year.... It has been said most approval comes from families with young children...how many of these are beach swimmers in the colder months ? Sydney pools are not a good comparison...many have bays or coves. We have a sheltered area north of the groyne already. Shark fears are not really relevant either as swimming in the shallows has never been threatened. Let's keep our beach as a beach. We have so many pools nearby already if that is what people want.	
Yes	2	1	3		
No				its a shit idea	dont do it
No	1			I believe a pool for Cottesloe is a very costly undertaking. Being a regular user of HBF stadium, I am staggered by the number of tradesman attending and the high number of staff required to run the venue.	If a pool is decided on then option 1 is my choice. Parking is already at a premium in the area (ie beachfront). There are numerous underused pools in the immediate vicinity - claremont, HBF Stadium, Bold Park and the school pools.
Neither	1	2	3	Not subject to southwesterly breezes in summer.	
Yes	1	2	3	Prefer it to be an ocean pool similar to those in NSW.	
				The land based saltwater option I feel opens more of what Cottesloe has to offer. Provides carparking space as well as a good visual entry from Eric St as well as a good visual down the coast north and south. In years to come with the OBH development it would transform the central Cottesloe coastline and will be more interactive, which in my view is a better long term decision.	
Yes	2	3	1		
Yes	3	2	1		

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	1	3	I think an ocean pool is a must for Cottesloe to improve and move with the times. It will also be a great boon for Perth as a whole and raise the profile of WA and this iconic beach location. The pool south of the groyne has a much better look and feel than the north option and leaves Cott main unaffected. The north Cott option is too far from the ocean to be a real ocean pool.	
Yes	3	2	1	The area needs an ocean based pool. Preferably both at North Cott as well as Cott.	
No	3	2	1	The environment & a little surf break would be damaged if a ocean pool were built either side of the groin	Just don't!
Yes	3	2	1	It would encourage people to be more active and make the area more attractive	
Yes	2	3	1	A pool connected to the ocean would be most preferable, similar to those in the East Coast of Australia. Similarly, an open access pool is critical as being a public asset encourages use and a healthy lifestyle. Number two is the best representation of this concept. Number three is removed from the ocean. The first option ruins Cottesloe Beach.	With the very real shark threat in ocean swimming, we need to provide the public with a wonderful option in order to continue our wonderful outdoor healthy lifestyle.
Yes	2	1	3	With Option 2, my only concern would be that it would ruin The Cove surfing spot south of the groin. If the pool is placed so that it doesn't ruin the surfing spot, I think this is the best option. Maybe talk to surfers to find out what they think. Option 1 will not leave much room for catching waves, depending on how big the pool is. Option 3 land pools are not as much fun as ocean pools	I probably wouldn't use an ocean pool personally because I like the waves. It would be good for children and swimmers that want to do laps.
Yes	2	1	3	I feel the pool proposed for the south side is the best option.	
Yes	3	1	2		
Yes	1	2	3	I like the way the first option if you were swimming in it you would still feel connected to the main beach and all the swimmers and sunbathers in the outer sections of the beach. It just feels natural to have the pool there. The second option I would feel a little out of the way or around the corner and wouldn't feel connected to the greater beach environment. I strongly believe the first option is the best.	
No				The ocean is our pool. There is no need to destroy precious remnant habitat with a completely unnecessary pool. The very suggestion is ridiculous.	The rock ledge on the south side of the Cottesloe Groyne is a biodiversity hotspot which supports many communities of reef dwelling species of plant and animals. I have spent years photographing that rock ledge. It would be criminal to destroy it so that people who are not interested or committed enough to swim in the ocean can have an artificial pool. This would be an aggravated act of environmental vandalism.
Yes	1	2	3	Would be great for locals, tourism and Water polo	
Yes	3	2	1	The open space at North Cottesloe lends itself to the pool environment for families.	
Yes	2	1	3	option 2 appears to be the least intrusive on the Cottesloe beach area itself which is quite small and becomes fairly congested on weekends. I think aesthetically it blends well with the existing groyne area and would enhance the over all landscape.	
Yes	1	2	3		
Yes	2	3	1	I don't want the reef to be negatively affected, which would be a result from the other two options.	
Yes	1	3	2	Option 1 has the least amount of environmental impact. It creates a larger space for a variety of formal and informal activities. Option 3 creates a pool within the foreshore and does not have an impact on the existing seabeds, reef and aquatic habitat. The foreshore reserve is an appropriate place to build the salt water pool as the 'land pool' will have a small footprint on the existing foreshore. It will be an engineered structure and therefore it will not be 'washed-away' by any foreseeable coastal process nor rise of the ocean levels. Option 2 has a large impact on the aquatic habitat south of the existing groyne.	It would be good to see 50m swimming lanes on Option 1. Iceberg at Bondi sits on a very different geology compared to Cottesloe. Option 2 will require a concrete base over the existing reef. It will require pumps and filters. The pool will be closed once or twice a year for maintenance like Iceberg. The design should be authentically West Australian not something borrowed from the Eastern States.
Yes			1	Option 3 (Eric St.) will have good access and amenity year round. Winter months when the ocean is colder and rougher, will be a much valued time to have a pool near the beach. Also valuable evenings and mornings when dark. This part of Cottesloe (North Cottesloe) is also ideal for the pool and spin off urban landscaping upgrades. This appears to be the only economically viable option. supporting ongoing maintenance and safety (life saver) costs could be addressed in this option, and not be a burden on Council.	In addition to Option 3 (Eric St.), a shark fence could be installed near the groin with far less impact than a pool at Cottesloe Beach.
Yes	3	2	1	North Cott is a far better option than Cottesloe.	
Yes	1	2	3	Significant shortage of pool space in Perth Pool on the beach are an attractive addition. . We have just travelled to Montenegro and they have magnificent pools along the coast that are well used and provide great resource for community	
Yes	2	1	3		
No	1	3	2	If there is to be a pool, (something a good beach like Cottesloe does not need!) option 1 is the least disruptive of the environment and possibly the cheapest. Option 2 is highly destructive of the reef system and should not go ahead for environmental and possibly cultural reasons. Option 3 is likely to be the most expensive to build and operate.	I don't believe a pool is needed at Cottesloe, it already has good swimming conditions and is well used. If fear of sharks is the reason for a pool some research on electronic deterrence could find a way of protecting an area without major environmental disruption.
Yes	1	3	2	pool leaves beach as is and area not used at the moment	
Yes	2	1	3	Least change to the current swimming arrangements / beach configuration at Cottesloe Beach. North Cottesloe option ranked last as I think the existing infrastructure at Cottesloe Beach can better handle the additional demand generated by the pool.	
No	3	2	1	We swim daily over summer and regularly for the other months of the year - putting an ocean pool on the North side of the groyne would destroy Cott beach and the perfect swimming conditions we have for the majority of summer. Our kids have grown up swimming in the shallow and safe waters by the groyne, and spent their summers doing vac swim by the groyne. An ocean pool is NOT needed. Putting a pool on the south side would need considerable maintenance following any type of swell or storm conditions. There is no parking options available for these two proposals, given the lack of parking available if carpark #1 is no longer available. An ocean pool is NOT needed. The option that minimises any change to the beach is Option 3 and though I do not believe an ocean pool is required, if it were to occur that would be my choice. As with all other changes to Cott - parking is an issue that needs to be addressed, and carpark #2 is not satisfactory as the sole option for parking for a 10 lane pool, given the lack of parking already on a fine summer/spring/ autumn day.	If people want to swim in a pool we have 4 options currently available in the area - HBF Stadium, Claremont, Bold Park and Fremantle. Really that should be satisfactory. And if you want to swim down the beach we have one of the best beaches in Australia, that caters for all. An ocean pool is not going to make it any safer, as surfers will not be surfing in it, ski paddlers will not be paddling in it, and long distance swimmers will not be swimming in it. Again if you want the safety of swimming without sharks visit one of the pools already available.
Yes	2	3	1		
Yes	3	2	1	Will make Cottesloe an iconic destination on a par with Bondi.	
No	3	2	1	Least impact on existing recreational areas	
Yes	3	2	1		Greater facilities in the area are seriously I needed.
No	2	1	3	South of groyne is not being used for any other purpose. Eric st and Marine Parade is too close to NCLSC	
Yes	3	2	1	salt water pool	
Yes	2	1	3	It looks amazing without taking away from the iconic cottesloe! An ocean pool would be an incredible facility (we don't need another land locked pool, like Scarborough).	
Yes	1	3	2	as a water polo player, I think the opportunity to play in an ocean pool was awesome. I also believe any lap lane pool should be 20 lanes these days if that option is selected.	
Yes	2	1	3	1. Pool south of the groin adds to available swimming areas. 2. Less likely to be inundated with sand in stormy weather. 3. Closer to open sea and to flushing by wave action. 4. A more exciting venue. 5. Will attract serious swimmers and other beach users all year round. 6. A tourist attraction, good for local business.	I am sure that there are lots of other good reasons to have a pool south of the groin.
Yes	2	1	3	I believe it is preferable to have a 50m pool to optimise the utility of an ocean pool. 25m pools will not attract the same lap swimmers etc. I also believe its important to preserve the sheltered beach area immediately north of the groyne for younger children to play in the water there.	I believe a shark barrier would be an important addition to Cottesloe Beach.
Yes	2	1	3	True ocean pool in number 2	
Yes	3	1	2	I believe an ocean pool is such a good idea, they have them in the beaches around Sydney and provide safe swimming fir those no longer that keen to swim in open water. The south side would seem a good idea as it does not interfere with the current swimming area.	
Yes	3	1	2	Least environmental impact and use of existing and space.	
Yes	1	2	3	1 - multi purpose for greatest engagement 2 - we are so keen for a salt water ocean pool	thank you for engaging your community in something that we have hoped for, for such a long time !
Yes	2	3	1	Having the pool accessible to all is a huge advantage tp the whole community. Option 3 will have the least impact on the sea life. While option 1 would make for a true 'ocean' pool swimming experience, not everyone would be able to get there. Option 2 should not be considered as it would damage the reef.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	3	2	1	The development of North Cottesloe region is of greater benefit to the community than the continued development of Cottesloe.	With the lack of other options for developing the region, it would be a great shame for this opportunity of developing North Cottesloe to be missed.
Yes	2	1	3	Option 2 is the closest in concept/design to the scores of "rock pools" situated on the eastern seaboard. All are extensively used by locals, visitors & the public at large all year round. Wind protection will need serious thought. Change room/toilet facilities available in Indiana Tea House building approx 350 meters distant. Parking available on Marine Pde & Forrest St as detailed below. Does not impact on main swimming area north of the groyne.	I found the consultants presentation on the 19th July @ the CCC rather underwhelming. Other sites on the T o C coastline could have been considered eg north side of the Dutch Inn Groyne in south Cott. During their presentation frequent references were made of the Napier St car park. Not one mention of all the parking in Forrest St (south side) upgraded by T o C a few years ago which is within easy walking distance of Cott. Main where Option 1 & 2 are located. Parking in the region of the Eric St & Marine Pde. Intersection in summer is at a premium, evidenced by the usually full Grant/Marine Pde car park & Grant St verge parking. (west end) I have reservations about the local knowledge of the consultants.
Neither					
No	2	3	1	Option 1 would have too much of an impact on an iconic beach area, unless it was a long way north of the ground, where it would still impact on regular swimmers and surf activity Option 2 would simply be an ocean side outdoor pool along the beach. Would have a very large footprint, Option 2 would be less intrusive, but would remove a very popular surfing area. In all cases there would be significant problems with parking, maintaining the facility, especially in winter, and the provision of changing room, and regulatory supervision of the facility would need to be addressed	
Yes	2	1	3		
Yes	3	2	1	Great initiative to put Cottesloe ahead of Bondi beach etc.	
Yes	2	1	3	The south of the groyne position would provide the best fit into the environment and less disruption.	
Yes	1	2	3		
Yes	2	1	3	I love doing laps so 50m it is, also have kids and I believe this is an good option for them	
Yes	2	3	1	It should be picturesque like the pool at Bondi	I love the idea of swimming laps all year round looking over the ocean
No					pools are a financial drain on local governments which a small LGA such as Cottesloe should avoid. The financial obligations involved in operating a pool would be an irresponsible use of Towns available capital. Davies Rd pool (jointly funded by Subiaco and Claremont) is near by and adequate for Cottesloe residents. The environmental impacts of all of these schemes are too high in my opinion. Our beaches are special because they are largely unspoiled. The fish habitat needs to be respected always. The towns long held objective to restrict development to the east side of marine parade should be maintained. If this proposal is about "fear of sharks" there are other strategies that are much more cost effective, especially if the funding comes from the state government!
Yes	2	3	1	Will be easily accessible and provide for great community facilities all year round. The location at North Cottesloe will have the lowest environmental impact and will enhance the aesthetic of the sand dunes in that area. Will also boost profitability of local businesses in North Cottesloe and reinvigorate the feel of the area.	
Yes	1	2	3	Ocean pool experience	
Yes	2	1	3	Does not interfere with swimming north of the groyne. Is an under utilised area. Will be aesthetically pleasing. Should be the most cost effective site. The reef provides a firm site for development. The only site that provides an ocean pool experience. Natural flushing.	The Trevor Saleeba Ocean Pool Plan South of the groyne will provide Cottesloe - and Perth - with a facility that people of all ages will be able to enjoy. In addition a development South of the groyne will be a world class tourist attraction.
Yes					I believe anyone proposing an ocean based pool is underestimating the power of the ocean and the movement of sand and weed. I also believe that other projects like dredging and the artificial reef have already had a significantly damaging impact on species, particularly the sea dragons and nudibranchs which once could be found on the reef. An ocean based pool will no doubt cause further disruption to the ecosystem.
Yes			1	I believe option 3 is the only option that is viable and it also has the support of important community organisations that will provide it with a sustainable future.	
Yes	3	1	2	Option 2 is the most unique and would be an amazing swimming experience - like swimming at Bondi Icebergs with the waves splashing over the top. Option 3 is a great idea, especially with the swimming pools, and extending the amenity from Cott up to North Cott, so that Cott Beach itself is not so busy. This is an important consideration, especially as far as parking goes. Option 1 in itself is pretty awesome, and reminds me of Balmain's Dawn Fraser Baths in Sydney, however I worry about the effect that the large sea wall would have on the views. It also uses up a large chunk of the Cott Beach "bay" which I'm not sure about.	I would build both Option 2 and Option 3! They both say they have funding, so why not?!?!
Yes	2	1	3	I like the idea for an ocean pool rather than a salt water pool. I think the position south of the groyne would give the best ambience.	
Yes	3	2	1	It's the most ideal location. Placement	
Yes	3	1	2	Only true ocean pool Logical position Kiosk nearby would add value	North of Groyne not an option Please look at underuse by public of prime space occupied by Cott Surf Club
Yes	2	1	3	Option 2 is preferential on all accounts in terms of location, preserving the natural beauty of the area, whilst enhancing public use. I lived in Bondi for many years and can attest to the benefits of an Ocean pool especially as I enjoy swimming in the ocean but don't fancy waves or sharks! As a mother of 3 young children growing up in Cottesloe, such an area provides great opportunities for encouraging a safe outdoor lifestyle with all the benefits that entails in terms of community and mental health. Our foreshore is tired, and indecision on moving forward is holding our community back. The ocean pool would also be a major drawcard for tourism and inclusively of wider Perth residents. A development is long overdue and it should be done properly and include all amenities (think toilet facilities etc) like the Bondi Icebergs.	I have had feedback from a number of trusted friends who attended the meeting where the consultants presented their report. There are huge question marks over the job they did and this should be questioned. If the process is not conducted right in terms of native title/indigenous issues, we will not end up with the right end result.
Yes	1	3	2	Really like the idea of a water polo area, hence preference for Option 1 and think the location is great. This pool would be more accessible to public than the Eric Street option and being on the south side allows the north side to be left as is for general use. I am an early morning swimmer for 9 months of the year between groyne and pylon, and have used the Cottesloe beach for over 65 years. The vista across the beach would remain unchanged and the pool on the south side would be a great attraction to locals and tourists.	If, as reported, Andrew Forrest is prepared to contribute this would be generous contribution and surely help to get the project moving.
Yes	2	3	1	The one my family will use most	
No	3	1	2	I repeat that I do not want an ocean pool in Cottesloe. This is because; Ultimately the cost of operating and maintaining it will fall to the ratepayers of Cottesloe, even if the cost of building it is paid by others and the operation and maintenance is contracted out. As we've seen before, the Council is the final "Fall Guy" for these sorts of facilities. If it is successful, it will add significantly to parking problems, which in turn will put pressure on the A Reserve presently used by the Golf Club. There are plenty of inland swimming pools. The Australian culture is to swim in the ocean when coming to the beach, not a pool. Sydney and Scarborough are not suitable examples for Cottesloe to follow. Cottesloe is not going high rise.	It is not clear that you wish my preferences to be indicated should I not want an ocean pool. I have indicated them because I do have a preference should a pool go ahead. Opt 2 seems to me to be the most practical and least obtrusive in the area, shame though it will be if it is ever built.
No				No Pool required as we have amazing beaches. Please do not destroy our area with this stupid proposal!	
Yes	3	1	2	Southside of groyne far more aesthetically pleasing. Doesn't spoil the iconic Cottesloe beach. More accessible. Nice views from every angle	
Yes	2	1	3	Option 2 will potentially be less visually invasive on the natural landscape (due to the groyne orientation and build up). Option 1 is ideal - but significantly larger than option 1. Is a water polo area required? Option 3. I don't believe there is any value in building a separate saltwater lap pool (similar I assume to the new aquatic centre in Scarborough) within the current landscape of Cottesloe Beach. It will change the entire character of the area.	I enjoy swimming laps - however I am nervous to swim in the ocean, not only in regards to sharks, but waves. It would be amazing to be able to enjoy the ocean, in a similar way to the Bondi Iceberg Pools.
Yes	2	1	3	Prefer Option 2 then Option 1 as it minimizes the impact while still providing an ocean pool. Option 3 seems pointless as it defeats the purpose of the project.	
Yes	1	2	3	Option 1 is closer to where I live. I think I water polo area is fantastic because it leaves more room for lap swimmers.	Things this pool needs: 1) Adequate Parking 2) Student priced entry
Yes	2	1	3	It seems least invasive whilst providing a safe swimming option for kids	
Yes	3	2	1	It will activate the surrounding area more, more easily accessed and less intrusion on the ocean.	
Yes	2	1	3	Safe winter swimming ocean water polo I do not think we need another land based pool	
Yes	2	1	3		

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	1	3	Option 2 would have less impact on current activities which seem to occur north of groyne. Option 1 next as if we are having one let's do it properly have as ocean salt water pool in the ocean. Option 3 last as I think this will create more traffic and parking issues at this location.	
Yes	2	3	1	aesthetics	
Yes	2	1	3	My almost daily, weather permitting, swim area is between Groyne & pylon. Preference for south is to leave north free for swimmers not interested in a pool, also school swimming classes. Also, to free up the beach, (becoming less & less) on crowded summer days. If the restaurant plan ever goes ahead, access from the south more suitable if planning is sorted in conjunction with a pool.	
Yes	2	1	3	Option 2 provides a real ocean based swimming experience however I am concerned at the lack of surveillance and potential safety in this option's isolation however the design levels of the space between the main beach and the pool could potentially mitigate this. Option 1 is also good although I wouldn't like to take away the surf experience of Cottesloe Beach because it is so popular and option 1 doesn't have the feel of an ocean pool by way of the rock surrounds.	
No					The reasons I do not want an ocean pool is as follows: 1. The actual public need of such a facility has not been seriously considered. 2. The construction costs, on-going maintenance and running costs are usually underestimated in initial feasibility or sketch design studies. The public need to be made aware of the true cost of such a project - initial and long term costs. 3. The negative visual impact of mechanical pool servicing equipment has not been shown to the public. 4. The obvious impact on the natural environment.
Yes	3	1	2		
Yes	3	1	2		
Yes	2	3	1	North Cottesloe is less congested than Cottesloe, and would extend the area of interest/activity for locals and tourists. The only challenge for all options would be parking, but if the council supported the development of some sort of underground parking I think it's a great opportunity for something cool and promoting a healthy lifestyle for our community. Especially with all of the shark issues. I used to live in Sydney and their ocean pool culture is incredibly well supported and utilised by their community.	
Yes	2	1	3		
Yes	2	3	1	Two key considerations in my decision relate to the environmental impact and the impact on current activities at all locations. Option 3 at North Cottesloe appears to minimise impact on both of these. Further, it potentially spreads the load of activity along the foreshore.	
Yes	2	3	1	Option 3 has more swim lanes and sounds more kid friendly. Option 1 is closer to where I live	Please build a pool. I am in Hawaii and the moment and the good thing about some of the beaches here is they build a sea wall a few meters off shore to make swimming safe for young children and elderly people.
Yes	1	2	3	I think you should include a water polo pool as well as swimming pool as this will allow local, state, national and international competitions and events it will attract more people to the area and give the area even more international exposure water polo will also give the local youth a fantastic venue for Western suburbs children to engage in swimming, water polo and surfing plus surf life saving.. a fantastic, healthy, water based, sport for life culture..	option one would in particular be a brilliant outcome
Yes	2	3	1		
Yes	3	2	1	Location & pool size	
Yes	2	1	3		
Yes	3	2	1	land based easier access	
Neither			1		
Yes	2	1	3	Prefer option 1 or 2 as this will be a true ocean pool unlike option 3 which will just be another paid swimming pool in our area.	
Yes		1		Only ocean pool	
No				I prefer NONE of the pool-siting options! My reasons include: No sustainable economic advantage, or nett payback will be achieved if an ocean pool is constructed at any of the sites. A pool would be a financial burden for the Council for as long as it tries to maintain the facility. The egoistic idea of a local benefactor/resident contributing towards the construction cost is ludicrous in the face of the many negative factors that will include: construction & operating costs; the unsightly and socially-damaging associated access, traffic and parking facilities; the massive cost environmentally from the construction of the pool and associated facilities; the likely damage to tourism value of disrupting the natural coastline and inevitable additional developments (e.g. changerooms, toilets, shops/cafes, etc - Cott cannot even provide adequate facilities!); Who will fund additional surf rescue services for the pool? A new pool south of the groyne would disrupt the attractive stand-up-paddling site presently in that area.	The North Cottesloe site presents even worse traffic consequences than the other two. Such a project would be far better situated in a beach where the necessary expanded access, traffic and user facilities could be installed less-expensively and produce greater value for a much wider community in an area where space is available and access is more easily arranged. Bondi Beach is not a valid counter argument - its pool is so lightly used that it would not be a viable economic proposition nowadays.
Yes	1	2	3	Natural and close to home.	
Yes	3	1	2	I like to swim laps for exercise and I'm building up my confidence open water swimming. Being able to do some in the ocean and sprints in a pool would be amazing. My sister is also not a strong swimmer, and being in a pool but at the beach would be amazing when the waves are too strong would be great.	
Yes	2	1	3	Cottesloe is an iconic beach. A pool would be a great addition and long overdue.	
Yes				Option 2 South of Groyne is my preference because it will provide an authentic 'ocean pool' (mimicking icebergs, Bondi Beach) and will be unique in Perth and will surely provide a significant amenity to the Town of Cottesloe residents and visitors alike. However, my support of this option is qualified regarding the following points: • I would like to see a greater emphasis on the children's area to facilitate safe swimming and away from surf 'dumps' • Further details required on location and scale of changerooms and public toilets for patrons • Parking – how many people will come and where will they park? I do not support Option 1 North because of its impact on the surf break and the protected area of beach north of the groyne. I do not support Option 3 Eric St because there are a sufficient number of Olympic size swimming pools in the area at Claremont Pool, Bold Park Aquatic Centre, HBF Stadium and now in Scarborough – Accordingly, I do not see the need to build another pool of this type.	I do not understand why the provision of changerooms, parking requirements and other infrastructure were excluded from Worley Parsons scope/brief. In my view, these elements are important and must be considered. I feel there was a lack of detail provided at the public meeting eg: • The total absence of any Estimate of Probable Cost (even benchmark costs from other recent developments by other councils) • The lack of transparency in respect of the fact that no mention was made on the night that each pool development had been proposed by private entities (other than the Eric St development) • The total lack of financial information on which to base our respective decisions. Given that fact that it is possible that a large number of people from outside the immediate Cottesloe area will benefit from the pool it will be important to know what financial burden will be placed on the ToC ratepayers • What contributions (if any) may be forthcoming from State Government and private donors. • The total lack of any information relating to projected number of persons likely to use the pool • The total lack of information regarding who would operate the facility – will it be owned/operated by private interests/proponents or by ToC? • The lack of simple comparisons between the options eg proximity to Mudurup Rocks applies to both Option 1 & 2 in the presentation. Same applies to proximity parking and other elements shown as a concern in some but not all options. Accordingly, in my view, the above and other key points must be addressed and need to be included in the Consultant's scope/brief before progressing to the next stage. Finally, where does the Town of Cottesloe stand – does ToC as a council want a pool?
Yes	2	3	1	An international standard water polo facility will be of great use to local water polo competitions. Perhaps more importantly it would also attract interstate visitors for National League competition and overseas visitors for International events.	
Yes	2	3	1	I have grown up in Perth all my life and have been snorkelling with my dad on the reef south of the groyne ever since I could swim. Over the years I've seen what a vibrant and precious area this little spot is. It is home to many amazing and unique creatures whose habitat would no doubt be destroyed by the construction of an ocean pool on top of their home. This snorkel spot is a bit of an unknown gem around our parts and must be protected. I would be greatly saddened if I could not share this wonderful and unique experience with my children. I believe that this kind of area is one of the things that makes living in Perth so great. I think an ocean pool would be very nice but not if it is at the expense of the homes and lives of hundreds of beautiful sea creatures.	I believe option 3 would have the most minimal environmental impact.
Yes	3	2	1	Spread activities away from the main beach area	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes				I think an Ocean pool would benefit everyone especially children. A place for people to learn to swim safely and swim all year round. Good for people visiting our beach as some do not feel it's safe to swim there. Excellent for locals and it's a bonus for everyone. Safety is a major issue when swimming. Lap swimming. In Sydney where there are a lot of Ocean pools and you are not dependent on the weather to swim. Safety especially for children.	
Yes	1	3	2	I have a strong preference for Option 1 primarily because it will provide a unique ocean pool experience without major environmental impact. Option 3 is just a conventional saltwater pool. It could be built anywhere. Option 3 would be better than nothing. Option 2 will have significant negative environmental impact by being built on the shallow reef system and will not be used at many times of the year because of the SW exposure. I do not support Option 2.	
Yes	2	1	3	south of groin ideal fit in my view good outlook, "dead" space at present be good to use natural wave and tide action to wash through the pool there is plenty of ocean front a using a small bit for a constructive purpose is no great loss to anyone land based pool is not an ocean pool - will fill with sand - to much maintenance north of the grin fills in a well used space	get on with it!! make use of the benefactors funds cant please everyone - but make a decision and move as quickly as possible sick of the pandering
No			1	I don't think a swimming pool is necessary in Cottesloe However, if one is to be built the only option would be Option 2 South of the Groyne as it would be the only true ocean pool experience. Option 1 North of the Groyne is extremely detrimental to the existing beach experience Option 3 North Cottesloe is just a swimming pool and not required in Cottesloe. In addition, it has too much impact on the beach and natural environment and is squeezed into a small space too close to Marine Parade	
No	2	3	1	Option 2 makes minimal sense- this is a popular surfing area, and is also heavily reefed and rocky and so would require significant environmental damage and removal. Option 3 has the greatest amount of space, whereas option 2 is not an easily protected part of Cottesloe and is also a popular surfing spot.	I'm exceptionally concerned of the environmental impacts of these proposals. What steps are being taken to ensure that the coastal native environment is being protected? If one of these projects is to go ahead, what environmental offset initiatives will the Town of Cottesloe implement? Option 3 seems to be the most reasonable in regards to space and location, however it would heavily impact the land environment where it plans to be situated. To placate the environmentalist minded of Cottesloe a seriously well-thought out and in-depth analysis of the environmental consequences and future initiatives should be carried out. I would suggest that for any flora removed and fauna that are impacted (loss of habitat etc.) the council should consider planting more native flora (as much as possible) in Cottesloe, as well as seek native garden spaces surrounding the pool.
Yes	3	2	1	More useful in all weather conditions Allow for water polo Similar successful beachside pools elsewhere	
Yes	1	2	3	Out of the wind - so North side is good.	Get us a ocean pool - not a land based pool - you can get them anywhere - but a ocean pool!
Yes	1	3	2	Option 1 provides a ocean pool that is actually in the ocean, protected by the groyne. It will encourage swimmers worried about sharks to go back into the ocean and would be a tourist attraction. Option 3 I like as well as this could help activate north cottesloe and encourage the development of the OBH site which is an absolute eyesore. If this is a cost neutral option that is privately funded why not have both the ocean pool option 1 and the North Cott ocean pool? They both have a different offering and they could co-exist. It would improve the overall amenity of the cottesloe foreshore. Option 2 - south of the groyne - doesn't make a lot of sense to me given its on top of a reef and fish habitat zone and would have traditional owner issues.	Cottesloe council should be bold and visionary and go ahead with both an ocean pool north of the groyne and the North Cott ocean pool - assuming this option is privately funded.
Yes	2	1	3		
Yes	3	2	1	I fully support an ocean pool because: - broadens use of the ocean for more people to enjoy for exercise and recreation - provides a safe swimming environment separated from sharks, strong waves and rips all year round - increase visitor numbers to the beach (including tourism) to help local businesses - attraction for locals and visitors - swim in a pool with sea water rather than chlorine chemicals I enjoyed swimming in ocean pools in Sydney (Bondi, Bronte, Collaroy) I like Option 3 (North Cottesloe) because it provides an elevated view of the ocean and creates a vibrant and mixed use option with cafes and a number of different pools. Would feel like Andrew (Boy) Charlton pool in Sydney. I also like Option 2 (South of groyne) because of being at ocean level and getting ocean water coming into the pools. It extends the use of main Cottesloe into an area that is currently not used and have a kiosk to add to the amenity. I don't like Option 1 because can't see out to the horizon or other parts of the ocean and it would close in and restrict access to one of the most protected swimming parts of main Cott beach which is heavily used for various beach activities. I am keen for the Council to look at installing a shark barrier as a cheaper and quicker safe swimming option while the ocean pool option is being considered and designed. It would complement any ocean pool. I think this could work well north of the groyne and cover the summer swimming season.	
No					Cottesloe has fantastic beaches. An ocean pool should only be considered if there is an external source of funds to build it and manage its ongoing maintenance, and it must include a realistic parking plan - a vague "street parking will do" as the present beachfront plan is based on simply wont do.
Yes	1	3	2	I believe an ocean pool experience is the best, and this will be the most achievable option	
Yes	3	2	1	There was once an ocean pool near the groin but considering it's no longer there the spot obviously doesn't work. The new suggested location caters for all ages and abilities and will be a great asset for Cottesloe for many years to come. There is also a lot more parking nearby and access for our ageing population will be better.	
Yes	1	2	3	3rd option is a paid option and also not in the ocean. Second option is on the north side which is not as appealing in both a practical/marketing sense. First option is better located and easily accessible.	
Neither	3	1	2	It is appropriate to have it on the southern side as it will not collect weed.	
Yes	3	2	1	I consider the option 3 to provide a far better spread for the beach usage and also takes the heavy density parking away from 1 concentrated area provides better allocation of public resources IE restaurants etc	It appears to be self funding in its operation thus reducing any impact on council resources
Yes	2	1	3	The Trevour Saleeba South of the Groyne plan is the only plan that will result in an ocean pool experience. The reef provides a sound footing to build on. The tides should largely be able to drain - fill and circulate seawater thereby minimising pumping costs. South of the Groyne - in my mind - is far and away the preferred site.	The Trevour Saleeba South of the Groyne plan will result in a wonderful asset and be a landmark development for Cottesloe and for Perth. It is a project that warrants State funding. Cottesloe needs a landmark development like this and it will prove to be a truly great resource for all ages to enjoy.
Yes	3	2	1	Just personal preference.	
Yes	1	3	2	Options 1 & 3 state that they have made provision for water polo.	I am supportive of any option that allows for the sport of water polo. Considerations that need to be addressed, to ensure water polo can use the facility include: Storgae area for equipment; Power source for timing equipment; Fixing points for field of play ropes and to secure the goals; platforms for referees; Lighting to support night games and training; 2 metre deep water and a minimum field size of 20 metres wide and 30 metres long. Spectator seating or a construction that allows for it to be installed permanently or temporarily would be great; There is great potential for water polo at Cottesloe beach with FINA (world governing body of aquatics) just announcing that Beach Water Polo will be a world championship event. One day Cottesloe could be hosting the World Beach Water Polo Championships. Pools would be great but if it's too expensive would love Shark barrier
Yes	3	1	2	Just love what the pool would bring to Cottesloe.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	3	2	1	Option 3 - A land based saltwater pool. The proposed pool will be situated near the corner of Eric Street and Marine Parade. Approximately 50m x 25m in size and consisting of 10 lanes. Being a north Cottesloe surf life saving member I think that it would be a great incentive to encourage more people to come down and see the best part of North Cottesloe as well as helping them celebrate 100 years It would allow more culture and entertainment to be alive Everything is entered around Cottesloe beach I personally think that it would be a great change to it to be near the North Cottesloe surf life saving club It will allow more tourist to come to the other side of Cottesloe The pool would be located within reach of many cafes and restaurants in the near by vicinity like, little sup, Barchetta, the blue duck as well as the well known bud the Ocean Beach Hotel the fact that the pool is going to be land based and salt water is a big plus as it will allow people to go and have a swim in the pool on the days that the Seabreeze has come in early allowing more people to still enjoy their swim and still have the feeling of being in the ocean Other factors that can be considered are that it might incentive the instalment of a paid lifeguard to be placed either on the beach or at the pool for the summer period so that I would create extra safety for both North Cottesloe beach as well as the safety of the members that use the swimming pool It has great disability parking as it within reach of the swimming pool a 10 lane ocean salt water pool would be a such a nice thing to have as we don't have any pools around Perth that are salt water and that are on the ocean front and overlook the beautiful Indian Ocean Option 2 - An ocean pool located south of the groyne. The proposed pool will be approximately 50 metres with eight swimming lanes Local surfers are not going to be happy with the placement of the pool I like the fact that the pool will be 50 meters and with 8 swimming lanes Option 1 - An ocean pool located north of the Cottesloe groyne. The proposed pool will include a water polo area and swimming lanes.	I do not like this option at all as there is too much activity already at Cottesloe and by putting this would create more activity down and night life as well as creating issues with parking as there is already minimal parking the fact that the pool would be located at south of the groyne I personally would think that it would be extremely problematic for locals as well as not providing easy access for people with a disability that need to move around in a wheelchair.
Yes			1	Great resources without taking away natural beauty	
Yes	2	3	1	Option 1 reduces the area of the wonderful Cottesloe Beach. It's only 25m wide so no good for laps. It could run the other way to get more length but it hits to shore which doesn't really work for doing laps. Option 3 isn't viable - no parking plus too separate from the ocean, so would cost far more to run. The earth works to safely retain it would be huge - and at real risk of failure in the future. Option 1 is a true ocean pool. Plus it does not have the space limitations of the other two options so it can be done properly.	Please ensure the design of option 1 ensures that the maintenance costs are minimised. Architects are very good at getting projects to look good and generally function well (as they have in this case) , but don't always have an eye to ensuring that long term operating costs are considered. People who are experienced in the actual hands on operation of such facilities should be involved in the design.
Yes	2	1	3	Undecided between option 1 and 2 -- both seem practical, accessible and ecologically sustainable and both would be a major benefit to local Cottesloe people as well as non-local and tourists, a safe and attractive alternative to ocean swimming for those seeking a healthy beach environment to stay fit and healthy.	
Yes	2	1	3		
Yes	2	3	1	The N Cott above ground pool is a long overdue infrastructure investment. Environmentally friendly and a sustainable improvement to an iconic WA beach. Parking remains a major concern along with public toilets etc. Option 1 should also be constructed as it is the 'family friendly' winner, incorporating the existing groyne and the magical beach sand. Ideally options 1 and 3 should both be constructed as they have different audiences and are highly compatible	With this planning underway on long overdue beach / ocean infrastructure it is time for Cott Council to police beach parking in a more civilised way. The electronic eyes in the main beach car park prevent anyone from leaving a vehicle overnight where one may have had a drink and got home via taxi. Surely the parking solution could mirror Claremont Quarter where all visitors obtain a timed ticket on entering the car park and then pay the appropriate fee (for any time >3 hrs) on departure. It will raise money and be far more fair minded. The Cott Rangers generate enormous animosity issuing parking tickets at 6:15am when the car park is 95% empty. Finally Indigenous North Street Peppermints are being replaced by imported, toxic Needle Pine trees! Who on earth has authorised such an assault on the iconic streetscape? Surely old Peppermints should merely be replaced with same species. Simply insane and detrimental to property values.
No	2	3	1	I love the beach and salt water, we don't need an 'Ocean Pool' because the ocean is one big pool. If you want to swim in a pool go to a pool not the ocean. I have ranked the pools in order of impact on the reef..... the pool supporters have their way then it should be located as far away from the south Cottesloe reef as possible, preferably inland like on the Cottesloe golf course, or on one of the existing life saving locations on the hill. Why do we have two life saving clubs situated so close, surely we could build a pool on one of their sites on the hill and the pool people would be happy. It would also mean that the fishermen and the surfers who use the area would probably be 'blocked-out' in the future as a dirty big concrete pool would be there. Its different for Bondi as the location is a lot larger, the bay is huge... Cottesloe is only a small space with one groin... I say NO POOL.	
Yes	3	1	2	More parking available in close proximity to the North Cottesloe option is a very important issue	If costing is issue and cottesloe proper is cheaper may then option 1 has some credentials but parking will be less
Yes	3	1	2	Option 2 will give the best ocean swimming experience without spoiling the landscape of Cottesloe beach itself.	
Yes	2	3	1	Least impact on environment & all activities at all locations.	
Yes	3	1	2	Option 2 is at sea level, has parking and is protected from shifting sea sand by the existing groyne. Option 3 has parking/access limitations Option 1 will fill with sand in the first winter.	
Yes	3	2	1	land based will be usable more of the year (especially with a little heating) better amenity so will get more use. less impact on existing shoreline	surrounding space as important as the pool grass, shade, room for kids to play ball games etc need some clever advice on low cost heating - just to 20 odd degrees - not swimming pool type 27 degrees
Yes	3	1	2	Option 1 is not big enough Option 2 is well located and good for serious swimmers Option 3 Has good aspects but is not as attractive as option 2	People need to be able to swim at the beach and feel safe. A pool is great for winter months when the sea is too rough. Let's make it happen!
Yes	3	1	2	Option 2 is an ocean pool that doesn't infringe on the beach	
Yes	2	3	1	Option 3 is potentially a more reliable / user friendly option. Option 2 has a Waterpolo facility as well.	
Yes	3	1	2	Number 2 is actually in the ocean like an ocean pool seen all over the NSW coast. It is still easily accessible to all. 1 is at the end of the groin and more susceptible to weather so is my last choice	
Yes	2	3	1	Land based pool is suitable despite weather conditions. Better location and use of space	
Yes	3	2	1	Long overdue for a safe sea pool in this beautiful location. This would attract many more to the area which would be good for local business as well as being a great facility for a range of age groups. Many don't feel swimming in the ocean and this is a great blend of beach and safe swimming.	
Yes	2	1	3	Option 1 seem to be less intrusive to the beach goers. It is less congested. It's design is more appealing. Seems to fit into the landscape better.	
No	2	1	3	Option 2 is the only option that would not spoil existing areas. Option 3 is particularly ghastly, a fenced area on a small sand dune.	
Yes	2	1	3	The north side of the groyne has a fantastic beach - why ruin it? The south side would be excellent as there is room for a pool between the groyne and Coves	
Yes	2	1	3	The south side of the groyne would be fantastic. Love the design.	
Yes	2	1	3	Ocean pools are amazing. Id be happy with any pools!	
Yes	3	2	1	The ocean areas around the groyne are lovely "natural" swimming and snorkelling areas and for most of the time, relatively quiet and peaceful. It would be a step backward to disturb this. In addition, the view from the grass banks is wide and expansive and largely one of undeveloped seascapes.	The Option 3 pool would be situated in an already reasonably busy zone. Keep the design simple/ The proposal of the pool with 10 lanes seems ideal. thank you.
No				I don't want a pool. It is completely unnecessary. If I wanted to swim at a pool, I would go to Claremont or Fremantle. I am also very distressed about any damage it may do to local wild life. We have such a great set up already, please do not destroy it. Not everywhere needs to be commercialised. This is stupid.	I show around exchange students from the US regularly. We go to Cottesloe Beach regularly. They always say that it is like nothing they have back home. We already have seen a pool get put in at Scarborough recently, why do we need another? Cottesloe Beach doesn't need to change, it's already great.
Yes	3	1	2	I think 1 destroys Cottesloe beach and the best part of its swimming area. 3 requires payment. While 2 will have a wonderful aspect in what is now a unused area.	
Yes	2	1	3	An ocean pool is a unique experience, one that I have valued and enjoyed on Sydney's Bondi and Curl curl beaches. Where possible they should be accessible at all hours and free of charge. The southern location is by far the most preferable as it will not impact on the iconic amenities of Cottesloe beach that are already very popular. From my point of view this is really the only option worth considering.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	3	1	2	I would like the pool to be a true ocean pool similar to the Sydney beach pool. Therefore I am not in favour of the Eric St Option as we already have Claremont and Fremantle pools not far away. I do not agree with a pool on the north side of the Groyne as it will interfere with the natural beauty of Cottesloe Beach and interfere with surfing there in the winter months. I prefer the option of a pool on the southern side of the groyne as it will fill with water from the ocean and it does not detract from the existing Cottesloe Beach. It also will not interfere with surfing at Cove if it is tucked up against the groyne.	
Yes	2	3	1	Better accessibility More complete facility proposed including 10 lanes, water polo. Away from congestion of main Cottesloe area.	
Yes	2	1	3		
Yes	2	3	1		
No				To Whom it may Concern, I congratulate the Cottesloe council on conducting this consultation, and I also wish you well in the deliberations. The ocean pool is sure to be a contentious issue, and one that I think you will not need to make on your own. I think it is important that the greater Cottesloe precinct has a salt water pool facility, however, I am not convinced at this time that any of the aforementioned proposals will on the balance, enhance the amenity of the precinct. I believe that a salt water pool located further up the first dune would be of more benefit to the locality, residents of the area, and the many local, state and international visitors to our part of the coast. We live in suburbs around which are some of the best school (chlorine) pools are located. In addition the somewhat ageing Challenge Stadium (Chlorine) and the newly renovated Claremont Pool (Chlorine) mean the area is well serviced in the swimming pools to train in regard. I believe that instead of trying to re-create Bondi and other ocean pool sites, we need to focus on managing a relatively pristine marine environment whilst distributing the human impact through our part of the coast. A pool that allows visitors to the area that would like to go to the beach, without having to swim with the sharks, has a very different set of selection criteria. This then provides a number of other opportunities to meet community and visitor expectations by taking into account further locations that do not compromise the existing infrastructure and ambience of the Cottesloe/ Swanbourne/ Leighton area. Thank-you for the opportunity to make a submission and once again, I wish you all the best in your deliberations. Sincerely yours Jamie Cootie	
Yes	3	2	1	I think option 3 gives the best outcome and utility for the largest group of users. Option 2 would be OK. Option 1 achieves nothing, it is not an ocean pool and it is not a useable swimming pool.	I am not sure how option 3 is considered high cost, building on land has to be cheaper than building in the sea and maintenance costs should also be lower? If they can keep a good view of the ocean with option 3 it is the best result.
No	2	3	1	Option 3 is the least disruptive to the ocean, reef and foreshore environment. It also would have a lower risk of damage caused by winter storms, movement of sand and seaweed. Option 1 will have an adverse effect on the present ocean environment and reduce the current open space. High risk of damage caused by winter storms and seaweed movement. Risk of poor water quality due to poor water movement. Option 2 is least preferred as it will have the greatest negative impact on ocean, reef and foreshore environment. High risk of damage caused by winter storms and seaweed movement. Negative impact on surfers using The Cove surf break. High exposure to the sea breeze.	I do not support a pool development at Cottesloe as there are already pools close by in Claremont, Fremantle, Challenge and Bold Park. I believe any pool will have an adverse impact on the current environment and amenity level of Cottesloe's beaches which are currently well utilised. Parking and traffic problems will be substantially increased. The risk of storm damage will be high. The cost of operating and maintaining a pool will be high. Risk of poor water quality in Option 1.
Yes	1	3	2	1 - ocean pool but lower environmental impact than option 2. Ocean pools in NSW do not necessarily have amenities available just access to swim in a protected pool.	
Yes	3	2	1		
Yes		1		As a lifelong wintertime surfer and a family of summertime swimmers at Cottesloe beach we hold real concerns about the loss of beach and rideable waves during winter under Option 1. The 'artificial reef' pencilled-in seems an unlikely location due to backwash and refraction from the adjacent rock wall (at right angle to the swell direction). Also strongly suspect the enclosed area will be subject to weed and sand clogging during storm events. Option 2 will have no real impact on surfable waves or loss of the current beach line. It would have a hard surface and sit in/on a reef shelf that has much more in common with successful east coast pools.	Have concerns that all the current Cott beach plans do not take into account the scale and intensity of winter storm events. All pool designs will need to be designed and budgeted for easy removal of weed and sand. See no value for a land-based pool at the beach, counter intuitive.
No	2	3	1	Option 1 (north) is a bad idea - will likely to accumulate seaweed wrack and sand, further disrupt the long-shore sand movement. Option 2 (south) is a disgrace, building on the reef platform that has been set aside as heritage area and a marine protection area. It is quite small for all the disturbance, the sea breeze will blast in all summer, it's far from amenities and it would be difficult to access. Option 3 is preferred, but only if the pressure for a pool is overwhelming - it is at least close to amenities, more sheltered and accessible. There is already a large new pool at Scarborough. Infrastructure/amenities are already stretched. My last visit to Cottesloe was very disappointing with the large amount of rubbish and plastics on the beach.	
no				We don't NEED an ocean pool so close to the ocean. Surely there are other services that the Council should consider spending money on providing?	
Yes	1	3	2	No. 1 is the best environmentally speaking	
Yes	1	2	3	*Being a waterpolo player and a avid ocean swimmer, I would love to see this sized ocean pool. I feel it would engage more of the community & future swimming/watersport events having a larger pool.	
Yes	3	2	1		
Yes	2	1	3	I lived in Sydney for 15 years and it changed the dynamic of the beach and in particular the areas where they were located - made the place a lot more community minded and focused and safe. Cottesloe is DULL to say the least and the shoreline too steep for small kids to enjoy a swim - this is awesome.	
No	2	3	1	Ocean pool will interfere with the surf break.	
Yes			1		
Yes	3	2	1	The first option will impact surfing - But it does look like a free option? The Second option will damage the reef but will also be a true ocean pool. The Third option is out of the way - adding to a area with little excitement at the moment - limited coastal damage, but looks like it will be expensive to attend.	The third location is the best but the design dosent look very special - just an outdoor pool near the beach - not a true ocean pool.
Yes	2	1	3	Option 2 is by far the best situation for an ocean pool in Cottesloe. The available parking is far superior to option 3, & the site is superior to option 1	
No			1	Cottesloe is popular because of its natural charms. A in-ocean swimming pool, such that is popular on the east coast, is totally unsuited to the environmental conditions at Cottesloe. A north of groyne pool will take inappropriately large, regular and expensive amounts of cleaning from natural seagrass deposits and may also get sanded in. Likely the council will not do this, and the pool will become unusable for much of the year. It will also change the sand deposition patterns on the rest of the beach, negatively impacting current beach users and infrastructure. A south of the groyne pool is an outrageous suggestion, since the delicate Mudurur Rocks area is significant for marine fauna, and indigenous people, and unusual for the coastline. It is protected for a reason. Totally unacceptable. Having a pool on the foreshore is just a stupid idea when we have a perfectly good beach, and swimming pool facilities nearby in Claremont.	LEAVE THE BEACH ALONE!!!! and stop wasting our money with feasibility studies. Concentrate on looking after Cottesloe's natural assets.
Yes	3	1	2	Most natural	
No	2	3	1	Option 2 May damage the most ecologically important habitat for fish in the area. As a biologist I have been studying the reef for the last 4 years snorkeling daily for six months each year between Nov and April recording species and behaviour. Apart from being an important nursery area for many juvenile reef species this small section of reef is strategically important for mature breeding tailor. We are only just coming to realise how important from this research. I am currently in talks with Curtin University, Dept of Fisheries, Recfishwest and the Fisheries Research Dev. Corp. (FRDC) to extend this research. This small area is an environmental jewel of potentially international significance. Marine habitats are under threat across the globe the Town of Cottesloe can demonstrate it's environmental leadership at no cost by preserving this area. Please do not risk this amazing and important site when option 1 north of the groyne will enhance the ecological value of the area providing more habitat with no risk and option 3 would appear to have no negative impact.	I am most happy to discuss the science and to show you video of the work I have been conducting with tailor at the reef. I can also offer advice on the physical structure of Option 1 to potentially provide significantly increased ecological benefit at minimal expense if any. Please do not jeopardise this site before we really understand it's significance and value. Any changes to the flow of water over and from the shallow limestone reef south of the groyne will potentially change the whole reefs suitability as an important resting ground for breeding tailor.
Yes	2	3	1	It will reduce congestion at Cott main. It will re-invigorate the area at the base of Eric St. Ample parking within the immediate area. It has the lowest environmental impact.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	2		a wonderful public amenity missing from cottesloe removes the shark attack risk wonderful for families great amenity for locals and visitors makes cott beach a destination shows we are moving ahead Sydney has had beach pools since 1930 so we are catching up after 90 years	
Yes	2	1	3	Option 2 will have problems with sand movement and seawater control. With the correct design option 2 will not have such problems. People who want to swim in a salt water pool adjacent to the ocean (option 3) can go to Scarborough. Option 1 has the least impact on the current facility.	An ocean based pool is unique in its setting - connected to the ocean and impacted by its energy. There are successful examples of such pools on the east coast of Australia. The southern location would not directly impact the current Cottesloe beach which is iconic as is. A pool on the southern side of the groyne would add to the current setting and no doubt would be an additional feature that locals and tourists would enjoy.
Yes			1	I grew up in Sydney where we did school swimming in the ocean pools along the northern beaches. I understand the value for young children and people who would like to swim laps in salt water. Options 1 & 2 show blatant disregard for indigenous culture and the environment. It is completely unfathomable that anyone would think that either of these options are a good idea. In addition, option one will fill with sand and lines on the bottom of the pool are key to swimming laps. Option 2 will impact severely the major surf spots in Cottesloe taking the ability to exercise and do sport from one group and giving it to another. whilst I understand the desire for the pool the first two options are insulting to the community.	
No	3	2	1	Option 1 and 2 are in areas that already are heavily used. Cove is heavily used by surfers year round and I do not think the uses are compatible. Surfers are currently surfing north of the groyne and I do not think that use is compatible. I am also concerned about the seaweed that would be trapped there in winter when storms bring in a great deal of seaweed. If there is a need for a pool, and I am not convinced that it is given the pools nearby at Claremont, Challenge and Bold Park, then the third option would seem to interfere least with existing use. I think the reason why ocean pools have not been constructed in the East since the 1960s is that there is little demand for them. The construction of an ocean pool would be expensive and require high maintenance due to the harsh conditions that prevail in winter. I do not think these costs are justified when there are plenty of pools nearby.	
Yes	1	2	3	water polo pools are in high demand. I've paid water polo for nearly 30 years and we are constantly looking for more pool space. Iconic beach water polo pools in Italy and Spain attract huge international water polo competitions and tourists.	great idea
Yes		1		Option 2 - This would have the least impact on the beach and natural environment.	
Yes	2	3	1	Option 3 at North Cottesloe is the perfect spot for an ocean pool for many reasons! - It is a perfect fit for the north cott local community who share values of being fit, active, ocean swimming lovers, regulars at Little Sup/Barchetta/Blue Duck and friendly. - It would help build the north cott community - Spread out the attractions along the Cottesloe coast. Currently Main Cottesloe attracts large crowds in Summer, a pool at North Cott would help to spread this congestion.	
Yes	2	1	3	Option 2 provides an ocean pool at Cottesloe not subject to surge and whilst accessible to the beach north of the groyne leaves it unaffected. A further reason is Andrew Forrest's promise of funding. Option 3 is not attractive at all!	
Yes		2	1		
Yes	1	2	3		Let's get on with it.
No			1	The ocean is a wilderness area that should be left untouched. If a pool must be created - create it on the land, no need to damage the beautiful part of the coastline that is home to a diverse array of marine life.	
Yes	3	2	1	Lowest environmental impact	
Yes	2	1	3	this is an underutilised area which would be greatly enhanced with an ocean pool	use natural flushing ocean water... the land based idea is rubbish... there are enough pools in backyards in cottesloe already!
Yes	2	1	3	An ocean pool is preferred Similar to those in New South Wales	
Yes	3	2	1	No cost to council Best environmental solution Best cultural (noongyar) solution Best parking solution Best access solution Spreading beach use to the north taking pressure off Cott main Best solution for sea level rise Best solution to Cottesloe entrance with view over Pool to ocean Includes Dune Top Walk to develop n COTTESLOE node Etc etc	
Yes	2	1	3	More natural fit and a better use of space - more like swimming in the ocean	
Yes	1	2	3		
Yes	1	2	3		
Yes	2	1	3	On the south side it will not encroach on the current beach space and it will fit into the environment more than the other options. Also with the prevailing south west winds it should provide more of a washing out effect.	
Yes	2	1	3	Does not encroach on currently used spaces.	
Yes		1	2	I don't want number one at all. South of the ground is the best option	
Yes	3	2	1	Option 1 impacts on the main beach and is the worst for swimmers Option 3 is best as it preserves the beach environment and provides an integrated facilities / swimming options that will enhance the shoreline aspect	
Yes	3	1	2	Better for space use already. South of the groyne not used for much already, but North of the Groyne is a popular swimming area. A land saltwater pool is good, but it requires a lot of development, which is why it isn't first.	
Yes	3	2	1	North Cott is a better place to situate pool and is the most environmentally sustainable option	
Yes			1	Placing concrete over the reef as proposed by options 1+2 will cause environmental damage. Secondly, the pool should be salt not chlorine. I believe in a community run pool.	
Yes	3	1	2	I believe that Option 2 the South of the Groyne pool is the best option by a significant margin. It is the best option as it has the least impact on the existing amenities of Cottesloe Beach and surrounding area whilst also providing the most authentic Beach Pool similar to those on the east coast of Australia. Users will feel like they are virtually in the ocean and depending on how the pool is designed there is the potential for some "natural" water circulation. I think Option 1 the north of the Groyne Pool is the worst option as it would have a major impact on the existing recognised outlook of Cottesloe Beach. This section of the beach is already the most naturally sheltered part of the beach. Option 3 won't have as detrimental an impact as Option 1 but will lack the full beach pool experience and feeling of being "immersed" in the ocean.	I commend the council for progressing this survey and hope that action is taken to implement a Beach Pool. I also implore the council to endorse the proposed modernisation and improvement of the beach frontage and Marine Parade as proposed by Cott Plus Plus. The Residents of Cottesloe, surrounding suburbs, all Western Australians and tourists will significantly benefit from improved facilities. Leaving the beach area unchanged is not the best legacy for the next generation.
Yes	3	2	1	A land based pool will attract swimmers that would not swim in the ocean, and will not change the beautiful ocean swim and fishing areas currently available in Cottesloe.	
Yes	2		1	Best spot. Least environmental impact Combination with water polo pool is really good and would be spectacular for spectators to watch	
Yes	2	3	1	Think the location is good and it allows for a wider pool which means better access for swimmers.	
Yes	3	2	1	The north street option provides a great entrance into the beach side of Cottesloe. Southside of groyne looks is nice for an ocean pool.	
Yes	2	3	1		
Yes	1	2	3	Like Sydney's beautiful ocean pools in Bondi and Bronte they are nestled into the landscape and are organically considered. (Especially the magical Bronte ocean pool) tucking a pool into the north side of the groyne will add and not detract from the existing view. connection to change rooms possibly from the Cottesloe Surf club (existing infrastructure) A North facing pool makes more sense so that the pool may be protected from the south westerly. 50m pool An ocean pool should be part of the ocean, not disconnected from it. We all recognise the need for an ocean pool and what it will bring to our community throughout the year.	the Pool should definitely be tucked into a groyne. Linked to facilities. The bottom of Beach street in Cottesloe may also work. The north side of the groyne there is less of a swimming beach and so wouldn't impact on the existing Cottesloe beach goers or surfers. Would be encouraging to see the Cottesloe infrastructure extend south towards Leighton. Currently there is nothing there whilst from Cottesloe main up to Swanbourne there is plenty going on already.
Yes		1	2	Option 2 has no interference with any surf breaks. Option 3 takes away some Native bushland.	Don't want option 1
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed area. The sea can erode around the proposed area, leading to erosion. I.e. sandtracks beach. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water pollution, potential for personal injury. Which would lead to a legal dispute.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode arpund the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which vould leed to a legal disbute.	
No	3	2	1	As a marine scientist, I strongly believe that the construction of an ocean pool will be detrimental to the marine environment, as well as to the native aboriginal land. An ocean pool will remove important habitat for many unique marine species that inhabit Cottesloe reef (including, but not limited to, the weedy sea dragon). Please reconsider this proposal. A land based saltwater pool is the only feasible option for this area.	
Yes	2	1	3	Option 2 looks modern and user friendly . It will be nice to swim in the ocean without fear . I would also like to see shark barriers at Cott main beach and Isolated surf break as I'm a very regular surfer in the area and it would be awesome to be less fearful of sharks .Cott main should remain Iconic . North Cottesloe is too small	
Yes	2	1	3	1. Option 2 has the least impact on the beach that is already well used by the community. It uses a space that is under utilised and a bit of an eye sore to be honest and turns it into an area that is funky without being too glamorous and suitable for the wider community to use. It's lovely that you have have a safe swim in the ocean without fear ! 2. Option 1 does impact the part of the beach that has been loved by everyone for ever but this is where they should put a shark protection up and protect the natural beauty of the beach while still providing swimmers the safety they deserve 3. Option 3 is not an option at all in my opinion it looks tacky like an after thought trying to keep up with Scarborough !!! I don't imagine any Cottesloe resident would want this even North Cottesloe residents !	I have offered my opinion when I spoke at the council meeting last year about the carpark redevelopment . I am very committed to helping the council and the focus group come up with the best solution for improving the foreshore. Throwing money at it to prove you are doing something isn't the right move . Making a real difference is such an enormous task with so many obstacles but please please please don't run Cottesloe into another Scarborough !!!! I did suggest a natural but protected snorkelling area well designed and world class I imagine how gorgeous, interesting and different that would be for a local beach !!!! A mini Ningaloo/barrier reef ...a tourist destination !!!! So in conclusion I would do Option 2 and put a shark barrier at Cott main and at the surf break Isolated ,and develop a natural world class protected snorkelling area . That would be money well spent !!! In my opinion . Thanks for listening
Yes	3	1	2		
Yes	2	1	3	The number of swimmers has dropped dramatically in the last 15 years since I have owned the Cottesloe General Store . I don't swim as much as I used to simply because its too hard to relax out there. Option 2 has the least impact on one of the most beautiful beaches in the world but allows swimmers the peace of mind while they swim in ocean water . It certainly doesn't look like we are copying Scarborough but making a valuable improvement for all to enjoy . Option 3 looks like a cheap, lack of planning after thought that won't be used or seen by the majority of visitors to Cottesloe.	
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode arpund the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which vould leed to a legal disbute.	
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Yes	2	1	3	Im completely against a pool that does not fit in with the natural environment . It should be a smallish pool that caters to kids, elderly & disabled but not a replacement for the likes ofClaremont/FremantlePool. There should be no water polo or lap lanes, just a natural like ocean pool to complement the surroundings. If you want to do laps go to Claremont.	
No	2	1	3	Pref 1 - less congestion with traffic etc and less impact on local residents however many other issues here make it not feasible Pref 2 - pool tried unsuccessfully here before Pref 3 Eric St - this removes more parking and means development west of Marine Parade which is not supposed to happen. NCLSC will be the main beneficiary of this ill conceived development	1. Rate rate payers funds should not be spent on another study as Council is already budgeting for a large annual deficit apparently with no money to fix falling down fencing / dangerous beach access etc etc 2. Council must properly consider liability issues which will likely require life saver supervision (future cost no doubt), likely higher insurance costs, fencing of pool required so becomes beach visual pollution 3. Rate payers should not fund such a development which will likely be mostly used by no rate payers. Cost of Bald Park pool would be a useful cost estimate 4. Eric Street development would contravene all planning principles of no development West of Marine Pde. 5. Who will these pools benefit and why are they required? 6. Our coast is a lee shore so we get hammered by weather / wave events which will require high cost engineering / construction solutions (100 yr storm events) for these developments otherwise the repair costs will be high (eg pylon) 7) NCLSC appears to be pushing to expand their footprint further south by providing funding and management options so will control even more development west of Marine Pde? A number of parking bays also lost in an area that is already a problem during summer weekends and will become worse when OBH site developed. 8) All these proposals have serious issues (previous studies should be published on the web) and council should only look at feasibility if the state govt is supporting and fully funding this. Council should not expect rate payers to take the burden
Yes	2	1	3	Would love an ocean pool with ocean salt water so I can swim in the ocean but not get bitten by a shark or caught in a rip.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
No				Absolutely no pool . What a total waste of money . There is the Indian Ocean for people swim in !! The water north of the groyne is flat and safe and perfect for swimmers . Cottesloe Surf club is one of the quietest clubs for rescues during summer . Particularly when compared to Scarborough or Trigg .	
Yes	3	1	2	The area North of the ground is currently used a lot by families, swimmers, surfers etc and is very picturesque. It would be a pity to spoil this. The area directly south of the ground on the reef is a bit of a quiet zone so it would be enhanced by making it a ocean pool. Particularly if it was a true ocean reef pool and not an Olympic pool that is built near the ocean.	
Yes	3	1	2	Option 1 would ruin the existing beach area. Putting it south of the groyne is best because that area is already under used by beach goers	
Neither	2	1	3		
Yes	2	1	3		
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which could lead to a legal disbutue.	
No				I am not in favour of further development of Cottesloe Beach. I am in favour of maintaining the existing beach infrastructure, such as paths, terraces, grassed areas, toilets properly. I am of the view that the experience of Cottesloe Beach in its current form is magnificent and the risks of further development simply outweigh any possible benefits. It is human nature to want to 'improve' things. Sometimes though it is best to demonstrate restraint. This is one such time.	
Yes	2	1	3	The order I picked is in order of adding value without taking away existing facilities.	Need to get Cottesloe Surf Club to do something similar to what at City Brach.
No	1			Option 2 is in the marine nature reserve and is therefore an awful idea. Option 3 is way over the top.	I don't see why people just cant swim in the sea but if we have to have an ocean pool then lets have a simple solution that is in keeping with the natural feel of the beach and definitely not have something that requires payment for access as per option 3.
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which could lead to a legal disbutue.	
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which could lead to a legal disbutue.	
Yes		1		lower cost and sustainable. the other options are not preferred due to location, lack of room for access parking etc, and operating cost. 10 lane multi use pool located close to Indiana Tea Rooms, Cott Surf Club appears to be a sustainable and consistent approach to what has been considered in the past. The Cott surf club also needs to be revitalised and together would provide an opportunity for a centre piece / drawcard for tourists, residents and the general public. Something that would rival other pools combined with tasteful art sculpture would be a value adding exercise.	interested to know more about operating and sustaining capital costs between the 3 options. a sustainable 'green' environ friendly pool would be an asset to WA. Opportunity to utilise wind, solar, geothermal power. Make a statement with this opportunity. Me - Im a lifesaver. I live in Cott. I was a national competitive swimmer training twice day for many years. Thanks for this positive opportunity.
Yes	2	3	1		
Yes	2	3	1	We need more facilities and attractions in North Cottesloe	
No	3	1	2	Option 2 is an outrageous suggestion. The idea of building an 'ocean pool' for users who don't want to enter the 'ocean' on top of rocky reef habitat that is visited and used by snorkelers is preposterous and does not make sense. Add to that the fact that it is a reef protection area, of indigenous importance, and will cause irreversible changes - this option should not even be considered! Option 1 should be avoided. I believe that it will have a negative impact on the marine environment, and the amenity of this sheltered area of the beach. This area of the beach is already sheltered and ideal for swimmers, I cannot see what advantage the building of an 'ocean pool' would give over what this protected area of beach already offers.	Cottesloe beach is an iconic and picture postcard beautiful beach that is somewhat protected from the weather and is ideal for a variety of users. These include swimmers 'having a dip', ocean swimmers, and snorkelers and divers. I strongly believe that options 1 and 2 will have a detrimental effect on the environment, and reduce the enjoyment of ocean swimmers, snorkelers and divers.
Yes	1	3	2		
Yes	1	3	2	Preference is for an ocean based pool.	Consider more beach side restaurants to be built into the location.
No			1	Ocean pool wont work in Cottesloe for 6 months a year, and just be a seaweed storage facility in winter for 4 months, and stink. Land based salt water pool at North Cott only way to go	
Neither					
Yes	3	1	2	As a local Cottesloe resident whole enjoys swimming in the ocean I wholeheartedly support the addition of a ocean pool in Cottesloe. My preference if for the pool to be located south of the groyne (option 2). I support this location as it is in the ocean but not impacting on the area north of the groyne. I do not support the ocean pool being located north of the groyne (option 1) and believe this area should be preserved in its current form. The area is of greater community value as it provides perfect conditions for swimming for young families as it is protected by the groyne and calmer. Further more the large sand area is well activated for most of the year by the Surf Life Saving Club, visitors playing sports (volley ball etc) and other community events. Without this offering it removes the ability to be a multi use area. Option 3 is less appealing as it is not in the water and similar to the Scarborough Beach offering of a public pool NEAR the beach. Although, I would supported this location over no pool in Cottesloe it should also result in zoning changes to activate the surrounding area. If a pool of this type (NEAR the beach not in the ocean) was seriously entertained, a better location would be north of the Cottesloe Surf Life Savings Club.	
Yes	2	1	3	I WOULD PREFER AN OCEAN POOL TO A LANDBASED ONE	
Yes	1	2	3	Option one includes the existing groyne which seems like an obvious place to use. The large waves will be tamed by the rocks around the pool..making it a quieter swimming area for those who prefer it. The water will be continually flushed clean by wavepower Option 2 not as accessible for all swimmers, neither kids or disabled. Option 3 Land based not in touch enough with the ocean..changes the people dynamics. I think also 2 and 3 will require more ongoing maintenance. #1 using existing infrastructure..the groyne..so more cost effective. On the east coast ..NSW and Qld, there are many salt water pools built into existing bays and rock pools etc...They are very accessible and the water is quite calm and clean, and no sharks have been reported entering them to my knowledge. I have been a long time user of Cottesloe beach and I think its fabulous, and I reckon Option 1 would be the icing on the cake!! Kind regards, Carmel Coyne	I also think there should be many more enclosed freshwater pools up and down the coast of WA. They are fun for kids and mature age people, and also provide protection from sharks.
Yes	2	3	1	Like the idea of a ocean pool down near the beach not up by the road. #2 is my preferred option but not at the expense of impacting on the local surf spot south of the groyne - this is one of the only decent surf spots this end of town, which is used all year round. A pool immediately north of the groin impacts heavily on surf club and especially the training ground for our Nippers - they need that protection.	
Yes	1	2	3	North of the groyne will offer more protection from the howling winds. I think a land based saltwater pool is a pointless idea. Who wants to swim in a pool when the beach is just there?	Shark protection
Yes	2	1	3		
No	2	3	1	Ruins the surf	
Yes	3	1	2	North of the groyne will ruin our calm spot for nippers and ruin our waves further down the beach South of the groyne doesn't get used and would be a good location for a small ocean pool A land based pool isn't anything special there is many around and close such as the pool in Claremont and Fremantle	
Yes	3	1	2		
Yes	3	2	1		
Yes	2	1	3	The south side pool is more realistic and gives the sense of being in the ocean.	
No	2	3	1	There are enough pools in Perth w/o putting one near the ocean	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	3	1	2	Option 1 (north) is a bad idea - likely to accumulate seaweed wrack and sand, further disrupt the long-shore sand movement. Potentially, the Pt Geographe disaster all over again. Option 2 (south) is a disgrace, building on the reef platform that has been set aside as heritage area and marine protection area. It is quite small for all the disturbance, the sea breeze will blast in all summer, it's far from amenities and it would be difficult to access. Option 3 is preferred, but only if the pressure for a pool is overwhelming - it is at least close to amenities, more sheltered and accessible.	The ocean pools in Sydney are a pleasure to swim in but they do not have the same problem as Perth's strong sea breeze (actually the strength of a storm wind) and the pools were not built near sand beaches. Please take some effort to understand the Perth nearshore environment, which is not the same as Sydney.
Yes	2	1	3		
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leading to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water pollution, potential for personal injury. Which could lead to a legal disbute.	
Yes	2	3	1	A pool near the corner of Eric St and Marine Parade will provide more services across the coast line. Rather than everything being only in cottesloe beach.	
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leading to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water pollution, potential for personal injury. Which could lead to a legal disbute.	
No					
Yes	2	1	3	Pool will be anchored against groin and natural limestone rocky outcrop. Although right next to Cottesloe beach, it does not interfere with current beach use by swimmers. True ocean pool. Provides good disabled access. Good tourist asset. Only proposal that provides a pool for children.	
Yes	2	1	3	option 2 is best, a true ocean pool making good use of existing space option 1 uses too much of the beach and will irrevocably change cottesloe beach and interrupt surf and swimming area option 3 is not an ocean pool	
Yes	3	1	2	Option 2 is the only real solution. It is fantastic - perfect use of the space and won't impact surf break too much, might actually give surfers more of a wave. Option 1 impacts too much on Cottesloe's iconic main beach and is a beautiful sheltered beach for young families to use when is windy or to get them used to the beach/ Option 3 doesn't have enough parking/ accessibility and isn't a true ocean pool. Really excited about Option 2.	
Yes	2	1	3	I believe the location South of the groyne is the best option because: •Area currently unused •Least impact on Cottesloe main beach •Potentially accessible from current service road	
Yes			1	Revitalise the foreshore	
Yes				Whilst I think the idea of an ocean pool would be really nice I believe that the ideas provided will not do the Cottesloe coastline justice when put against the test of time. Option 1 will reduce the overall beach amenity by installing a bulky rock structure that imposes on the existing Bay and removes the best surf spots in the bay that can be ridden during the winter months. There is an opportunity that the head of the breakwater may be angled such that the designers claim they will generate a wave running along its edge but engineers in general (certainly not pointing fingers) don't tend to create worthwhile artificial surfing waves in the environment (the success rate is very low) Option 2 will provide the nicest outlook but I agree it's location will promote antisocial behaviour hidden behind the cliffs and likely poorly lit at night. It will also permanently damage the existing protected reef area which cannot ever be replaced. Option 3 is not really an ocean pool and very much akin to what has just been developed up at Scarborough. Whilst the outlook would be nice I don't think it will add a unique feel to the area. In summary I don't mean to be negative but I just think that this area is so special that we shouldn't rush to just do something. I employee you to get an iconic and Environmentally excellent design that ties into the essence of Cottesloe even if it takes a few goes to get there. Perhaps running a landscape architecture competition could be a cost competitive way of procuring a more interesting design with a prize for the winner?	I am a coastal & maritime engineer by profession
Yes	1	2	3	Iside of the pool would all ready be there and all the amenities are on the north side	
Yes	3	1	2	I think it would be excellent to have an ocean pool in this area as it would proved a great location for salt water swimming training. We don't want to loose beach space North of the groin as this is where nippers takes place.	
Yes	2	1	3	I love the ocean, these pools are very successful in NSW, people are terrified of sharks so avoid WA now, it would just bring us up to date and provide younger people with the opportunity to experience the ocean the way I have all my life. South of the groyne would be the least intrusive for those who never want anything changed. Can't wait to see it.	People in WA spend so much time objecting to things that nothing ever gets done. Just get on with it. Fremantle is a perfect example of the "do nothing" mentality of Western Australians. What a dump. Cottesloe can lead the way and show that a wonderful new facility is a good thing.
No	3	2	1		
Yes	2	1	3	South of the groyne will not interfere with the traditional cottesloe beach & would also be a more natural rock pool similar to the very popular pools on the east coast	
Yes	3	1	2	It is difficult to comment with limited information. My preferred pool location may not be possible because of aboriginal heritage concerns. This option appeals most though as it has a true ocean pool feel. If it is not possible then I am keen for the Council to look at the Eric Street location, being mindful of making it affordable to families. Given the likely long lead time involved in developing a pool I would also like the Council to explore options for shark protection/enclosures. Thank you.	
Yes	1	2	3		if we had the money I would do 2 ocean pools. Option 1 and Option 2. Think big!
Yes	3	2	1		
Yes	2	1	3	Ocean pools would provide a more novel and inviting experience than a land based pool, making it an iconic tourist attraction.	
Yes	2	1	3	An ocean pool being a true 'ocean pool' is the preference. A salt water pool next to the ocean seems a bit redundant. However with few surf breaks in Perth, the north of groyne would ruin one of the better breaks along this part of the coastline.	
Yes	2	1		Don't support Option 3 where there is only minimal local parking (which will be worse if the OBH is redeveloped), there will be more traffic congestion in a very busy area and more noise for the local residents.	
Yes		1		Option 2 is utilising a currently underused area. It doesn't detract from the iconic vista of Cottesloe beach.	
Yes	2	1	3	Cottesloe is the main swimming beach and by going south you preserve the existing beach but create a pool at the right location.	
Yes	2	1	3		
Neither	3	2	1	LAND BASED TO PRESERVE BEACH SOUTH OF GROUYNE TO KEEP CURRENT SWIMMING AREA AS IT IS	NEW POOL IS A MUST FOR COTT
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leading to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water pollution, potential for personal injury. Which could lead to a legal disbute.	
Yes	3	1	2	I think a saltwater pool south of the groin would fit best into the natural landscape. It would provide a good amenity without radically changing the look and landscape of the iconic Cottesloe Beach.	
No	3	1	2	Option 2 is clearly the best option because it won't intrude on the current swimming space and will be the closest to swimming in the actual ocean. It should defiantly be south of the groyne to preserve the appearance and form of cottesloe beach. The swimming area north of the groin is already packed during the summer and it would be unwise to reduce this space with a pool. It would be more functional, practical and aesthetically pleasing to have it located on the south side of the groyne	
Yes	2	1	3		
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leading to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water pollution, potential for personal injury. Which could lead to a legal disbute.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	2	1	3	South of the groyne allows the Cott beach to be maintained as is. The negative to this is the winterswells this position is similar to the bondi icebergs and that is hugely successful to locals and tourists. The northern placement is the next best alternative, The Eric Street proposal is not realistic considering it is not near the prime tourist beach and will be 50 metres from a major hotel with large patronage at the bars. the liability and safety isy!	issues are considerable.also parkin will be a large issue wjen you consider the hotel ,the beacj goers,the surf lub,restaurant patrons and then the pool users. This option is has commercial overtones rather than tourists snd enhancing Cottesloe to be like Bondi or Scarborough. The only way to rise above Scarborough and get the best tourist beach mantle back is either north or south and nor Eric St . THANKS
Yes	2	1	3	An ocean pool would prove very popular to the general public and option 2 as presented offers a larger swimming area, whilst still maintaining the groin and much of the existing beach.	I would also like to use this forum to exhort the council to push for funding from the government for an ecologically s / north Cottesloe.
Yes	3	2	1	I think that option 3 will not detract from the scenery/landscape. Am assuming that a pool at option 3 would have car parking built into the plans. I feel the groyne area is already quite congested with visitors and cars.	I would only support building a pool at Cottesloe if it had a significant leisure area. I would not support building yet another pool with lanes. Fitness swimmers can already use Claremont, challenge stadium, bold park,UWA etc. I would like to see a family friendly fun pool, where children could play, throw a ball, Go on an inflatable , have fun with mum and dad. I feel we need to encourage folk to get active and have fun, and I'm very aware that many people will not go to our pools because that feel they will get in the way, or hold up competitive swimmers. Cottesloe could take the lead here, and encourage families to swim and splash for fun.
No				No ocean pool at all because it does not comply with the "Plan of management for the Cottesloe Reef fish habitat protection area", which aims to encourage and protect the Cottesloe reef aquatic habitat... and 'to manage human activities that have, or may have a destructive impact on the conservation values of the reef system.' Option 1 (in swimming area): *will destroy part of the groyne and current safe swimming area N of the groyne *will always be subject to siltation from natural seasonal movement of sand. *could increase erosion of beach and shorelines along the coast due to these new structures changing wave patterns. Option 2 (on a living reef): *will permanently destroy any habitat preserved by the Cottesloe reef fish habitat protection area *shows no respect for the Aboriginal Heritage area *a raised structures and pool will change wave patterns which could have unpredictable effects on shore erosion *is exposed to wind and waves Option 3 (on N Cottesloe dune): *is appealing but impractical as it would be built on top of a dune with no solid foundation for a pool (refer to catastrophic erosion at Port Beach)	I share all of the concerns listed on the Advisian community meeting presentation. I also have these concerns : Reef option 2: This bears no resemblance to east Coast rock pools which *are on different geological rock platforms, *are subject to a more predictable tide regime with reliable tidal flushing, which is not so at Cottesloe.
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which could lead to a legal disbutte.	
Yes	3	1	2	I think the ocean pool should not disturb the current structure of the beach and waterfront therefore option 2 is utilising space that is currently redundant and is in a position that is not obstructive to the current swimming options. I think that number 2 would incorporate lane swimming, a safe kids swimming area and also recreational swimming which will appeal to all members of the community.	
Yes	3	1	2	Cottesloe most popular beach and provides more safety from sharks	
Yes	2	3	1	Its the right place opposite the North Cottesloe athlete statue because that area provides a good place to have a pool without disruption to other beach goer activities. That area is seldom used currently . Interface with Marine parade would be possible with board walks . It would be a very positive tourist and visitor attraction. With the strong core of North Cot swimmers and interested parties and with encouragement it would be a go. Cottesloe Council would not need to provide funding - rather support it would be a great project for tourist dept/lottery commission involvement. The Cottesloe beach area is already busy	Hopefully the council can get out of their own way on this project and not cost ratepayers.
Yes	3	1	2	The pool should be able to cleaned and operated as a sea pool - on the douth side is the only way this can occur - second option at etc st - this will evenly distribute visitors to cottesloe beach by providing another great area to go to	
Yes	1	2	3	felt option 1 would be more protected and I like the water polo option	
Yes	1	2	3	Water polo area and ocean pool is a must to attract competitions.	
Yes	1	2	3	1 first due to the additional water polo area, 2 as still an ocean pool, 3 as whilst still saltwater won't actually be an ocean pool as such.	
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which could lead to a legal disbutte.	
Yes	2	1	3	Quite busy at Cott already, therefore south of groin may be more preferable so as to not impact on surf club groups etc. Option 3 third preference as would be spectacular on the beach.	
Yes	3	2	1	Option 3 has a bigger swimming area and salt water Option 2 is good as well in terms of the number of swimming lanes.	
Yes	2	1	3	I have a strong preference for an ocean based pool and the south side of the groyne is a perfect location for a totally "natural" style of pool	This is something that really needs to happen. It would be an excellent addition to the foreshore and would get a lot of usage. Cottesloe is unique and this can only enhance the area and add to what is a very special suburb.
Yes	2	1	3	The pool south of the ground makes use of the rock platform and allows natural wash to come in. If north of the groyne it will occupy some valuable protected swimming area.	
Yes	2	1	3	Option 2 is currently unused space. Option 1 will constantly fill up with weed and sand and Option 3 doesn't have enough space/room.	
Yes	2	1	3	Option 2 utilises an area that is both highly accessible and isn't used that often. It would have less of an impact on traffic and wouldn't affect the sand dunes like option 3 would.	
Yes	3	2	1	The area between Indiana Tea House and the groin is iconic and it is already congested, an Ocean Pool there would add to that congestion. There is more space at Eric street and the area south of the groyne is little used.	
No				If you must make a pool, a ground based pool is the only option that will minimise destruction of the natural habitat and natural beauty of Cottesloe beach. South of the groyne will destroy important marine habitat, and I have no idea how such a plan could have gained any sort of traction. North of the groyne will ruin the beach for other beach users, who actually enjoy swimming in the ocean. Furthermore, has anyone actually seen what the wave action does to the shoreline during winter storms there? Good luck keeping the sand out. I really don't understand this burning desire by council to overdevelop every bit of land they can. Cottesloe beach is already a much-loved and much-frequented location - don't turn it into a circus. Not impressed that my rates are paying for this.	
Yes	1	2	3	North of groyne is preferable to South of the groyne as south is a surfing and picturesque nature area.	
Yes	2	3	1	The North Cottesloe pool would provide safe swimming in a little used area it would be a very attractive tourist attraction. A strong group of North Cot swimmers would support the pool and provide a core to get it underway. Cottesloe beach is already fully utilised. Funding away from the Cottesloe council would be good.	
Yes	2	3	1	Option 3 - year round swimming & less impact on existing marine environment	
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which could lead to a legal disbutte.	
Yes	2	3	1	This design is the better option that isn't destructive to the natural environment.	
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed aera. The sea can erode around the proposed aera, leadibg to erosion. I.e. sandtracks beech. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water polution, potential for personal injury. Which could lead to a legal disbutte.	
Yes	2	1	3	Option 2 is the Best design by far	
Yes	2	1	3		

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	2	3	Cottesloe beach offers the best technical & authentic ocean pool location & experience. Historically there has been a pool at Cottesloe that was an unfortunate casualty of Cyclone Alby in 1978 - great for such a facility to be restored.	It will be a defining & appropriate addition to Cottesloe that will enhance & be distinctively different to the new pool at Scarborough and any other near ocean pool that may be in the future.
Yes				1. There is no point of a pool unless it is in the water a la Bondi 2. Any pool on Marine Parade will destroy the view of the beach, the sand dune environment and add to the area congestion 3. The beach at Cottesloe is already very busy - it does not need a tourist attraction 4. why not use the reef space between north and south cott and build an in ocean pool there. The clubs could then share responsibility. Both clubs do an awesome job of keeping beachgoers safe and it seems unfair to preference one over the other	
Yes	1	2	3	Maximise utility	Would prefer option 1 to be south of the groyne
Yes	2	1	3		
Yes	1	2	3	Pool should have direct connection with the ocean and beach	
No				Creating an ocean pool us destroying natural the landscape, the ocean is less than a 2min walk from proposed area. The sea can erode around the proposed area, leading to erosion. I.e. sandtracks beach. People in the local community do not want a pool on their door step. It will create an eye sore. Serious risk of water pollution, potential for personal injury. Which could lead to a legal dispute.	
Yes	1	2	3	Option one is least intrusive and will be the lowest cost	
Yes	2	1	3	Option 2 leaves the beach untouched and leaves space for the masses of summertime beach goers. If the pool goes on the northern side it will eat into the current small bay we have and affect our Nippers program which is already tight on the beach especially during Sculptures.	
Yes	2	1	3	I believe option 3 will cost more to operate & maintain	
Yes	1	3	2		
Yes	3	1	2	I believe that building a pool north of the groyne would reduce the available space currently shared between swimmers and surf club.	
Yes	3	2	1		
Yes	2	1	3		
Yes	1	2	3	Nth of Groyne comes from a world class engineer and is based on good science. It is low maintenance, self flushing and sits in a soft sand beach environment. Easy to observe for safety, children and to prevent antisocial behaviour. Most importantly sits in a sheltered position especially for children, aged, infirm and disabled. Caters for lap swimmers, water polo and the soft sand entry is best for children, aged, infirm and family cohesion as part of the beach Nth Cott lap and water polo pool has the advantage of NSSC taking full responsibility for construction, maintenance and patrolling. This makes it the lowest cost option	The 5th of the Groyne pool is in a registered aboriginal heritage area and has potential problems over its life cycle., It is a hard rock and concrete construction that is very exposed to the elements and not good for aged, infirm and disabled users. Afternoon and winter use would be very unpleasant. Hard to see children, others and antisocial behaviour from the beach. Has costly ongoing maintenance costs
Yes	1	2	3	Strong preference for an ocean pool.	
No	3	2	1	Option 3 has Lowest environment AI impact.	It would be incredibly selfish to build option 2, a pool over the reef south of the groyne.
Yes	2	3	1	Option 3 is bigger. Area less congested so makes it easier to access Option1 out of the prevailing winds	
No				Option 3 prevailing winds and harder to access	
No				An ocean pool that does not interfere with the beach or local surf breaks would be ideal. The option to the South of the groin would interfere with the breaks at Cove and Seconds as waves would refract off the pool walls. The surf breaks are already congested. If two more are taken out that would not be popular. Option to the North of the groin may work but would impact beach users and ocean swimmers who swim up to the groin wall. The South end of the beach is crowded in the summer and if the pool is added, it would be more congested. Ocean modelling and siltation studies are not an exact science and I don't believe the effect on the beach would be fully known until actually built, therefore why risk ruining what is an exceptional beach. If its really necessary why not take the low risk, don't annoy any other water users approach and adopt option 3.	If the rational is for safe swimming, due to fear of sharks, why not spent the money on deterring sharks, inserting shark barriers. I am sure we could afford a lot of those for the cost of building one of these pools
No	2	3	1		
Neither	3	1	2		
Yes		1		South of the groyne on the flat reef structure is a good place to put it just like the Bondi iceberg in Sydney I'm opposed to north of the groyne since the main Cottesloe beach swimming area should not be disturbed	That stupid plan to eliminate car park 1 and replace it with lawn needs to be stopped. Where shall families bringing their kids to nippers or ocean pool visitors park ? That initiative can only have been launched by a bunch of retired locals with no consideration for family needs
Yes	1	2	3	Prefer in ocean and parking is better north of the groyne	
Yes	3	1	2		
Yes		1		Ocean experience - better natural flushing	
Neither	2	1	3	Option 2 would cause disruption to current reef south of the groin, and interrupts Aboriginal land - we need to preserve these natural eco systems as long as possible. Would also encourage people to climb the rock cliffs around the area Option 1 is pointless as there is already a naturally semi-enclosed area that acts as a sea pool thanks to the shielding of the groin.	None of the options seem satisfactory. The success of NSW sea pools is largely that they have different beach profiles: more cliffs which are easier to work with the fashion a sea pool, as well as more harsh swimming conditions (poorer sand and rough surf) which means they need more protected swimming environments. Perth is very different to this, so needs are different.
Yes	2	1	3	Cottesloe beach is already small so prefer to go south of the groin. There are already plenty of good land base pools.	
Yes	3	2	1	Spreading the tourism along the coast.	Water polo pool is an excellent idea to get people down
No				I do not want a pool. This is wasting ratepayers money The ocean itself is a natural pool.	
Yes	2	1	3	option 2 is the logical choice given the site location is integral with the beach and ocean. Challenge Stadium has ample swimming pools as do 1 in 3 private properties. Cottesloe doesn't need to add to that resource, the title 'ocean pool' says it all. The Operating costs are likely to be cheapest in that pumping heights are minimal in comparison. The foundation material is stable rock, car parking is in near proximity, and economic stimulation in the area strongest of the 3 options as people will come 'for a look and a play' in an unusual but safe beach-side environment.	
Yes	3	1	2	I think Cottesloe Beach should be left as it is iconically and it is safe for children in summer there. Very protected. South of the groyne is a clever position.	A shark barrier is needed somewhere as I have sharks constantly on my mind when swimming at Cottesloe. It would give peace of mind, I never have this feeling when swimming in other oceans.
Yes	1	3	2		
Yes	1	2	3	water polo pool and lanes will be good for the area, bring in a potential water polo and/or swimming club and the pool will provide more for the public and bring more people to Cottesloe	
Yes	3	1	2		
Yes	3	1	2	An inground pool is generally preferred because it is sheltered, and conducive to lap swimming. Why consume a beautiful shoreline with a built up pool area when it can be better located further inland and less likely to congest access to the beach. The north side of the groyne is sheltered and a perfect location for Australia's iconic beach swimming for the young, old and unfamiliar. South of the groyne is tucked away. Provides lane swimming and the look and feel of the beautiful east coast rock pools.	
Yes	3	1	2		
Yes	2	1	3		
Yes		1		Less used area Natural reef utilised Flush out well to ocean	
Yes	1	3	2	Low environmental and heritage impact. Accessible and open. Sheltered from sea breeze. Extend lane length if possible	May require maintenance after storms to remove sea wrack. It will impact the popular cott surf break. May need to consider interaction with fishermen - where they can fish and that they have suitable waste disposal facilities otherwise this could detract from the pool.
Yes		1		An ocean pool south of the groyne will be aesthetically pleasing and fit into the environment without negatively affecting amenity we already have. I like the ocean pools on the east coast that give the swimmer the feel of being in the ocean water but also a space for swimming laps even in big swells. I like the appearance of the pool walls being carved out of the existing rock and minimizing the man made and added materials to make the structure.	The ocean pool will provide ocean water swimming free of the anxiety of sharks. I swim st Cottesloe beach most days of the year all year around.
Yes	2	1	3		
Yes	2	1	3	South of Groyne makes most engineering sense. There is no zero cost option as the Eric street proposal suggests; eventually rate payers will pay for any option that is chosen.	

Do you want a pool?	1. North of the Groyne	2. South of the Groyne	3. Eric St	Reasons for preferences	Any Additional Comments
Yes	1	3	2	North side of the groyne is protected from the strong sea breeze and the natural beach entry would be wonderful for families. The South side design is on Aboriginal heritage land 'Muddrup Rocks' that should remain as is. It is also fully exposed to the wind. The North Cott pool would also be great and very popular, but it appears to be more of resort style design.	
Yes	1	2	3		
Yes	1	2	3	1 delivers greater amenity	
Yes	2	1	3	Option 2: Is fantastic swimming experience, close to the waves, great view and good alternative for swimming if swells are to high. Option 1: Less great swimming experience but still a good alternative with lower CAPEX. Option 3: Will be just another swimming pool, to expensive and will not make me go for swimming there. Might as well go to existing swimming pool	
Yes	2	1	3	I'm not a strong advocate for an ocean pool. However would be happy with a pool south of the groyne. A pool situated north of the groyne would take away much of the protected, calm area for little kids or weak swimmers to enjoy the beach, so I don't think that would be advantageous. I'm not a supporter of a land based pool anywhere along the beach. I believe it would be damaging to the dune structure. It also defeats the purpose of going to the beach if people are going to swim in a land-based pool. It is likely to increase parking and traffic congestion from people who could be visiting a community pool away from the beach.	
Yes	3	1	2	I believe having an eight lane pool would be a great way to attract lots more swimmers and make it better for competitive swimmers at the club	
Yes	1	3	2	Option 1 will be a Greta addition for Cottesloe. It will add to the tourist aspect of the beach.	
Yes	2	1	3	2) is a proven old working design, just above the sea level, ocean pool as used today at Bondi Beach, NSW and other beaches, South Curl Curl, Dee Why, Cremorne in inner Harbour, where I used to swim. The design works with low operating cost of a self sea draining/flushing, and uniquely for Perth, is shark proof. Will greatly enhance Cottesloe's community lifestyle. Other options 1) is too risky for sand & seaweed and will disrupt/destroy current swimming and surfing conditions, and 3) is too high above the beach, and therefore pumping costly to operate, and also unsightly/congesting for Eric Street area.	Seek input from NSW's Bondi and other ocean pool designers/operators to improve on their design and de-risk. Also, must be planned to include overall better car parking, such as marking Napier Street Carpark into two levels, and/or extending up to the tennis club by removing/reducing that Parkland. 2) should be build with wider plan to revamp the tired CSLSC building or area to include a food/dining experience, like Bondi's Iceberg Building. Again, seek input from Bondi council. Don't try to do alone that will likely create many admin/local ratepayer haggles and delays. If Cottesloe can't timely do, then get State Govt level community project planners involved.
Yes	1	3	2	South of groyne is surfing area and also further away from amenities - cafes etc. north of groyne is family area and a great spot for a pool	
no					
Yes	3	1	2	Option 1 more accessible to people of varying walking abilities, visually appealing , great hub for swimmers, surf club, cafes etc I also love an ocean pool like the ones in Bondi so Nth of the groin would be best as near sandy beach for families and closer to change rooms etc and closer to walk to shops for snacks, ice creams etc	
Yes	2	1	3		
Yes	3	1	2	Option 1 will take away from Cottesloe beach Option 2 will be in space that is otherwise unused	
Yes	2	3	1		
Yes	3	1	2	I think option 1 is a clear stand out. Won't effect the main Brack, will flush out naturally and reminds me of the many ocean pools in Sydney.	
Yes	2	3	1		
Yes	2	1	3	1. Least obtrusive Uses ocean water Preserves iconic Cottesloe beach Provides access for disabled, elderly. Is an option for people who aren't as water competent with waves/swell	
Yes	2	1	3	Location!	WAs own bondi
Yes	2	1	3	Ocean pool is much better idea but option 1 would utilize too much of the already reduced beach space. Option 1 would significantly impact Sunday surf club activities, particularly the nippers. Option 2 would on the other hand encourage the public to utilize another area of the beach	
No				There absolutely no logical reason for a man made pool next to a perfectly good ocean	There is no justification for wasting money on a pool by the ocean
Yes	2	3	1		
Yes	2	1	3	I'd prefer to keep the north side of the groyne free for swimming and surf club and have the pool to the south. This will help with congestion too.	
Yes	2	1	3	Option 1 is technically and functionally superior Option 3 is a poor mans pool in a terrible location	
Yes	2	1	3	Cottesloe Beach needs to improve its facilities in order to attract more people to the area as its being left behind compared to beaches like Leighton, City Beach and Scarborough.	
Yes		1	2	Option one interferes with surf break on north side of groyne. Option two provides a better ocean swimming experience. Option three is acceptable if fully funded for build and operation.	First priority should be a shark barrier on north side of groyne. It is cheaper and , less intrusive, and technology advances mean this is doable NOW.
No				Thank you for the opportunity to comment on the Cottesloe beach pool proposal. I do not, however, feel sufficiently informed to make a 'yes' choice on the ocean pool. (1) almost no cost/benefit information has been presented (whilst acknowledging that costs may be difficult to estimate (as they are site and design specific) without providing at least a broad outline of costs, how these costs might be funded and the anticipated outcomes, it is difficult to evaluate the options (the survey may result in an incorrect gauge of community demand) (2) a number of heritage, environmental and recreational issues have been raised in the presentation, particularly with respect to the two sites on the sea front, given the limited information and my own limited knowledge on the matters, I believe site suitability should be more directly influenced and led by recognised experts in the relevant fields.	Cottesloe as one of the smallest local governments in the Metropolitan area (+/- 8600 residents, +/- \$12 million annual budget, +/- \$10 million reserves) does a sterling job in providing core services to its residents and also (as it should) in supporting broader economic and tourism objectives, also through the ongoing management and development of the iconic Cottesloe Beach and foreshore. It is unlikely, however, that this small Town would also be able to support the ongoing operational costs of managing a coastal pool or its future renewal, without either reducing or stopping existing services, selling assets or increasing rates. Without some level of understanding of the implications, broad costs, level of subsidy, service 'trade-offs' or rates increase, it is not possible to say 'yes' to an ocean pool. (Assuming the initial capital cost is largely covered by donors or grants?) An audit on aquatic centres in Victoria provides some ideas on issues that might be important to consider when assessing the feasibility of the proposed new ocean pool: (1) outcomes, objectives and measurement – local governments need to clearly outline intended outcomes, how the aquatic facility addresses strategic objectives and how achievement will be measured when implemented o what are the anticipated outcomes of a new ocean pool and how do these address SCP objective and how will outcomes be evaluated? (2) ongoing operational costs – most councils subsidise the running and maintenance costs of aquatic facilities o providing a subsidy may be acceptable, dependent on the expected social, health and economic outcomes, however, in order to weigh the cost/ benefit it is important to be clear about the intended outcomes, the level of subsidy required and the proposed source of the subsidy for the new service (3) future capital costs – long term capital refurbishment/ replacement costs should be considered in feasibility studies to ensure long-term sustainability (4) regional planning – consideration needs to be given to the number of pools in the region, to avoid concentration of facilities, limit impact on neighbouring facilities and support long-term sustainability o there are a number of pools accessible to Cottesloe residents – Claremont (3.7km), HBF (6.1km), Bold Park (7.6km), Fremantle Leisure Centre (8.4km) [Victorian Auditor-General (March 2016) Local Government Service Delivery: Recreational Facilities]
No	3	2	1	N/A	I feel that pools for swimming (training) should only be built in beach areas that are not close to popular beaches where people swim in the ocean. What's wrong with the area near Swanbourne Beach?
Yes	1	2	3	That's just what I like.	