
NORTH AYRSHIRE COUNCIL

26 November 2019

Cabinet

Title: **Millport Coastal Flood Protection Scheme**

Purpose: To update Cabinet on the feedback from the most recent community consultations regarding the Millport Coastal Flood Protection Scheme and to seek approval to submit a formal Scheme Notification to Scottish Government.

Recommendation: It is proposed that Cabinet:-

- a) Notes the work carried out including the extensive engagement which has helped to develop community support for the proposed scheme;
- b) Notes that officers will finalise the scheme notification documents; and
- c) Agrees officers will submit the Formal Scheme Notification to the Scottish Government.

1. Executive Summary

- 1.1 The requirement for a coastal flood protection scheme for Millport was included within the Ayrshire Local Flood Risk Management Strategy and Plan produced in 2015 and 2016 respectively. Since then work has been progressing to develop an acceptable design solution for a flood protection scheme.
- 1.2 Three design solutions were presented to Cabinet in December 2018. The preferred solution was the provision of off shore breakwaters connecting the small islands in Millport Bay, plus onshore flood walls along the Millport shoreline as shown in the diagram at paragraph 2.1. The preferred option not only provides the required element of flood protection, but it also creates an area of sheltered water which could allow the future development of a community marina supporting the potential for step ashore facilities under the auspices of the Ayrshire Growth Deal.
- 1.3 In May 2019, Cabinet agreed that officers should undertake further community engagement to progress with the outline design of the onshore elements of the Scheme. Cabinet also agreed that officers should continue to work with the local community with regards to their aspirations for coastal tourism through the Ayrshire Growth Deal.
- 1.4 Cabinet is invited to note the outcome of the latest community consultations, which have been very positive, and approve submission of the Millport Coastal Flood Protection

Scheme Notification to Scottish Government to allow statutory public consultation on the proposals to take place in early 2020.

2. Background

- 2.1 In December 2018, Cabinet approved the preferred Millport Coastal Flood Protection Scheme solution (see Figure 1 below) and agreed to officers carrying out a community engagement event based on that option. Cabinet also agreed that officers would continue to work with the community with regards to their aspirations for coastal tourism through the Ayrshire Growth Deal.

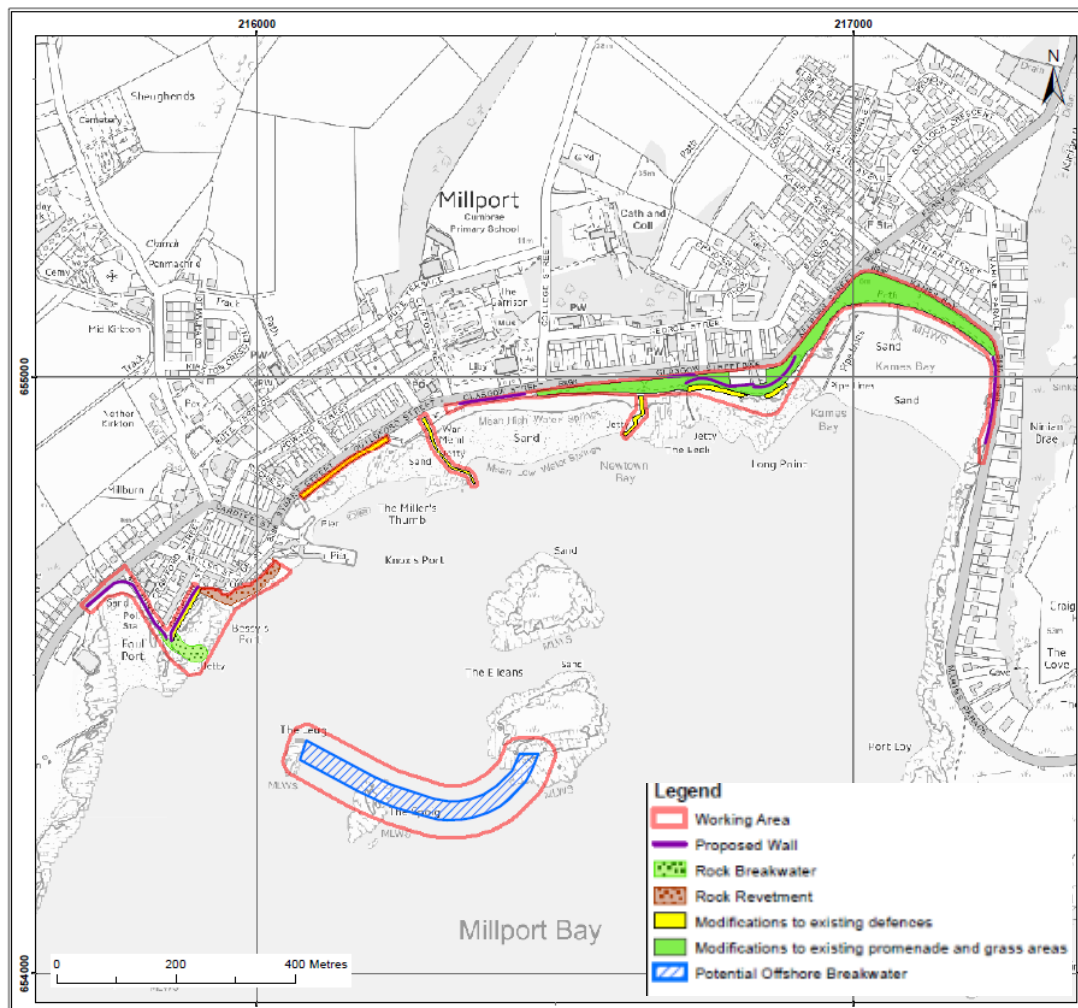


Figure 1: Millport Flood Protection Scheme – Agreed preferred solution

- 2.2 A community consultation event was held in Millport on 12 and 13 of February 2019 followed by a student consultation involving pupils from Largs Academy. The consultation sought views on the preferred option through workshops to discuss the onshore elements of the Scheme. The feedback from the consultation was very positive but it was clear that the onshore elements required further refinement to reduce the visual impact of the proposed flood walls and integrate them into the existing landscape.

- 2.3 In July 2019, a series of targeted community consultations were carried out for the Clyde Street, Cross House and Crichton Street residents. These residents are the most directly impacted by the proposed flood protection scheme. At Clyde Street a visualisation of the revetment has been prepared, and we will further agree with residents the best way to minimise the visual impacts of the structure during the detailed design process. At Cross House, the meeting resulted in changes being made to the proposals, such as replacing part of the existing garden wall with a flood wall. The feedback provided by residents was positive and enabled the project team to develop the outline design further with greater confidence.
- 2.4 The 19 and 20 August 2019 community engagement was a very positive event. An updated landscape design proposal was presented for the onshore works based on the February 2019 event feedback, including the targeted meetings. There were around 170 visits made to the design workshops over the two-day period. A total of 33 questionnaire responses were received. The responses to the questionnaire were generally supportive of the proposals. A summary of the August 2019 consultation feedback is provided at Appendix 1.
- 2.5 The Consultation Feedback Report includes survey results which confirm that 90% of people believe that the Flood Protection Scheme has been developed with the appropriate involvement of the community. Figure 3.3 within the Report demonstrates that the community are generally supportive of the scheme proposals.
- 2.6 Access along the seafront, and the interface between pedestrians and cyclists, is important in the design of the scheme. Accordingly, the final scheme will seek to promote facilities to encourage appropriate cyclist and pedestrian use as much as possible.
- 2.7 Officers are also progressing a business case for a step ashore proposal under the auspices of a wider initiative supporting marine tourism through the Ayrshire Growth Deal. A step ashore facility is made possible by the flood protection scheme. Preliminary works were commissioned with Blue Sea Consulting LLP to provide an indicative proposal for the location of step ashore facilities. This will include further engagement with the wider community on the development of any proposal. Over 50 responses to date have been received in response to initial consultation feedback. Responses are positive in support of the proposed step ashore facility, its location and potential for a community led operating model.
- 2.8 With considerable community and visitor support for a step ashore facility at Millport and a clear strategic fit within the AGD's marine tourism proposal, the project is well positioned to be further developed. This will include a business case to the Scottish Government, supporting the case for further technical and design works through the AGD.
- 2.9 The Economic Appraisal of the proposed Flood Protection Scheme was also reviewed to reflect the changes made to the design since the Scheme Recommendation Report was issued. The project still shows a strong, positive 2.37 Benefit Cost Ratio.
- 2.10 The offshore Site Investigation which took samples of the seabed sediments has now been completed. The laboratory analysis and final reporting is anticipated by December

2019. The site investigation report will provide information for the development of the Environmental Impact Assessment and the final scheme design.

2.11 An additional review of the potential impacts of the scheme on maritime navigation is progressing well with various statutory undertakers.

2.12 The assumptions used in the flood risk assessment for Marine Parade have been reviewed and refined which has allowed the proposed mitigation measures to be made less intrusive.

2.13 Officers have now finalised the Scheme outline design based on the preferred option detailed at Fig 1 at para 2.1 and which also incorporates the community views expressed at the recent engagement with regards to the onshore flood protection measures. On approval, it is proposed Officers will prepare a Formal Scheme Notification for submission to Scottish Government in early 2020.

2.14 An indicative timescale is detailed below. The key milestones remain in-line with the December 2018 Cabinet Report:

- December 2019 - Completion of EIA and other scheme notification documents
- End of February 2020 - Formal notification of scheme and commencement of statutory public consultation
- End of May 2020 - Conclusion of consultation period
- September 2020 - Cabinet approval to progress the detailed design (provided a public hearing or inquiry is not required)
- late 2020 to early/mid 2021 - Detailed design
- early/mid 2021 to summer 2021 - Tender period
- late summer 2021 - Tender evaluation, approval and award
- autumn/winter 2021 – Contractor mobilisation
- winter 2021/22 - Construction commences
- late 2023 - Scheme completed and operational

2.15 The necessary statutory public consultation mentioned above will be carried out in line with the Flood Risk Management (Scotland) Act 2009 which sets out a process which must be adhered to. This process includes a period of 28 days in which objections can be made to the scheme. The purpose of the extensive consultation already carried out was to identify community concerns so that issues could be addressed prior to the formal process.

3. Proposals

3.1 That Cabinet notes the work carried out including the extensive engagement which has helped to develop community support for the proposed scheme.

3.2 That Cabinet notes officers will finalise the scheme notification documents.

3.3 That Cabinet agrees officers will submit the Formal Scheme Notification to the Scottish Government.

4. Implications/Socio-economic Duty

Financial

- 4.1 The costs associated with the delivery of the proposed Millport Coastal Flood Protection Scheme are estimated at £27.5m and will attract 80% funding from Scottish Government with the remaining 20% funding being the responsibility of the local authority. The required funding is allocated in our approved Capital Investment Plan.

There is no financial allocation to secure the local community's aspirations to retain the existing timber pier structure, which will only be possible should the community be able to secure funds.

Human Resources

- 4.2 None.

Legal

- 4.3 The Scheme notification will follow the process outlined in the 2009 Flood Risk Management (Scotland) Act. Flood Protection Schemes have a single statutory consultation, which will be undertaken in spring 2020, and the approval process includes planning consent. Negotiations with the third-party landowners who will be involved in the delivery of the scheme are progressing well.

Equality/Socio-economic

- 4.4 An Equality Rights Impact Assessment will be carried out during the detailed design stage of the project.

Environmental and Sustainability

- 4.5 The flood protection scheme will protect the environment and fabric of Millport against flooding in the long term. The need for an EIA will be determined once the details of the scheme are finalised and with reference to the Environmental Impact Assessment (Scotland) Regulations 2017. In determining whether an EIA is required, relevant factors will include the details and scale of the works and the potential impacts on the marine environment. If required, an EIA would accompany any planning or marine application which is necessary for the scheme.

Key Priorities

- 4.6 The flood protection scheme will protect the safety of residents in the affected areas and will also help develop the economy of Millport which aligns to the Council Plan 2019 – 2024. The scheme will contribute to keeping people and communities safe, make Millport a vibrant, welcoming and attractive place and create a sustainable environment.

Community Wealth Building

- 4.7 The scope for Community Wealth Building will be reviewed as flood protection scheme develops.

5. Consultation

- 5.1 To date, four informal community consultation events have been held with stakeholders, including the event which took place on 19 and 20 August 2019. A summary of the August Consultation feedback is attached in Appendix 1. The consultation events have significantly influenced the development of the proposed flood protection scheme.
- 5.2 In addition to the above, targeted community consultation was carried out in July 2019 for the Clyde Street, Cross House and Crichton Street residents.
- 5.3 A forum was established involving stakeholders, elected members and officers to discuss issues relating to the impact of the proposed flood protection scheme. This has afforded the opportunity to consider the views of the local community and reflect these within the design.

RUSSELL McCUTCHEON
Executive Director (Place)

For further information please contact **David Hammond, Head of Commercial Services**, on **01294 324570**.

Background Papers

Appendix 1 – Millport Community Consultation Summary – August 2019

Appendix 2 – Visualisation of proposed scheme

Millport Coastal Flood Protection Scheme

Summary of August 2019 Consultation Feedback

Client: North Ayrshire Council

Reference: PB4749-RHD-ZZ-XX-RP-Z-020

Status: 1.0/Final

Date: October 2019

HASKONINGDHV UK LTD.

Rightwell House
Rightwell East
Bretton
Peterborough
PE3 8DW
Water

VAT registration number: 792428892

+44 1733 334455 **T**
+44 1733 262243 **F**
email **E**
royalhaskoningdhv.com **W**

Document title: Millport Coastal Flood Protection Scheme

Document short title: Millport Consultation August 2019
Reference: PB4749-RHD-ZZ-XX-RP-Z-020-P1.0
Status: 1.0/Final
Date: October 2019
Project name: Millport FPS
Project number: PB4749
Author(s): Amy Savage

Drafted by: Amy Savage

Checked by: Elaine Hawkins

Date / initials: 17th October 2019

Approved by: Nick Cooper

Date / initials: 18th October 2019

Classification

Project related



Disclaimer

No part of these specifications/printed matter may be reproduced and/or published by print, photocopy, microfilm or by any other means, without the prior written permission of HaskoningDHV UK Ltd.; nor may they be used, without such permission, for any purposes other than that for which they were produced. HaskoningDHV UK Ltd. accepts no responsibility or liability for these specifications/printed matter to any party other than the persons by whom it was commissioned and as concluded under that Appointment. The integrated QHSE management system of HaskoningDHV UK Ltd. has been certified in accordance with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

Table of Contents

1	Introduction	1
2	Summary of consultation	1
2.1	Previous consultation	1
2.2	Targeted consultation meetings with residents	1
2.3	Consultation process	2
3	Consultation questionnaire	4
3.1	Methodology	4
3.2	General information and consultation process	5
3.3	Acceptability of the scheme proposals	7
3.4	Questions and further information	9
4	Conclusions	11

Table of Figures

Figure 2-1: Consultation materials	3
Figure 2-2: Showing attendance at the consultation event	4
Figure 3-1: Opinions on the consultation process	6
Figure 3-2: Illustration of comments provided in questionnaire responses	6
Figure 3-3: Acceptability of the proposals	7

Appendices

- Appendix A** August 2019 Consultation Questionnaire
- Appendix B** Frequently Asked Questions and Answers (August 2019)
- Appendix C** Table of Questionnaire Results (anonymised)

1 Introduction

This report presents the findings of the fourth Millport Coastal Flood Protection Scheme (FPS) Community Consultation Questionnaire, which formed part of the community consultation event held during the week commencing 19th August 2019. Empowering communities is a core policy of both North Ayrshire Council and the Scottish Government. Engagement and consultation with the people of Millport is an essential part of the scheme development process.

The preferred way forward for the coastal flood protection scheme was presented at the consultation event held in February 2019. During the February 2019 consultation, public feedback was provided on the landscape design proposals for the onshore parts of the scheme. Since then the project team has completed further work to develop the proposals, taking this feedback into account.

The August 2019 consultation event updated the Millport community on the progress with the development of the scheme proposals. The aim of the questionnaire provided alongside this event was to provide a further opportunity for comment before the formal Flood Protection Scheme documents are prepared and submitted for statutory consultation and approval by the Scottish Government.

This report first provides details of the community consultation undertaken (Section 2). Section 3 outlines the methodology for the survey and analysis, before going on to set out the results (Section 4). This report provides brief conclusions regarding the results of this questionnaire only, because the survey is part of an ongoing process of planning and design.

2 Summary of consultation

2.1 Previous consultation

Three previous community engagement workshops have been held, with consultation questionnaires issued alongside each of these workshops:

- The first consultation and questionnaire (November/December 2016) focussed on how the seafront is used and the important aspects to be considered in development of the scheme.
- The second consultation and questionnaire (March 2017) provided an update on the development of the scheme proposals and explored the community's wider ambitions for the town (led by the Council's Tourism and Coastal Economy team).
- The third consultation and questionnaire (February 2019) updated local residents on progress with scheme development, including the findings of the Scheme Recommendation Report that was presented to North Ayrshire Council's Cabinet. The community design workshops explored the requirements for the onshore works, including the location, appearance, landscaping and access needs for the flood walls and other structures.

2.2 Targeted consultation meetings with residents

In advance of the August 2019 public consultation, targeted meetings were held with groups of residents to discuss particular issues relating to the Cross House, Clyde Street and Crichton Street parts of the scheme.

For the Cross House, the position of the flood wall in front of the property was reviewed. The main conclusion from this discussion was agreement that the garden wall should be replaced with a flood wall, instead of having an additional wall seaward of the garden wall in an area where there is limited space.

For Clyde Street, additional information was provided about the rock revetment proposals, including the height of the rock revetment compared to the natural rock foreshore. The impact of the flood protection scheme construction on property boundaries was also discussed. Further details of the rock revetment proposals (cross-sections, elevations and visualisations) were provided at the August consultation event to confirm the information provided during the targeted meetings.

The flood protection scheme proposals for Crichton Street have been reviewed again to ensure that access to the foreshore is maintained and the height of the flood wall minimised to reduce visual impact.

2.3 Consultation process

The August 2019 consultation event was publicised via letters to local residents, posters provided to seafront businesses and the library, a press release to the local newspaper, and using the North Ayrshire Council website and social media. The timing of the event during August recognised that there are many property owners in Millport who are not resident all year round. More seasonal residents were able to attend this consultation than the previous events. The first day of the consultation (Monday 19th August 2019) was the last day of the school holidays, which also helped to increase resident's availability to attend. **Between 160 and 180 visits were made to the exhibition and workshops over the two day period.**

Consultation materials prepared for the August 2019 consultation event included revised and new display boards. These display boards provided information on the process of scheme development, the changes since the last consultation, and answers to the outstanding questions identified from the responses to the February consultation questionnaire. A brief presentation was given on the scheme proposals at various points throughout the consultation sessions. The project team were available throughout the event to answer individuals' questions about the scheme. The 'Frequently Asked Questions and Answers' leaflet was updated to address the questions raised in the February 2019 consultation, and made available at the August consultation sessions. This is attached as Appendix B. A questionnaire was also developed, specific to this event, with an online version available for via the NAC website. The questionnaire is provided in Appendix A.

The video visualisation of the scheme that had been prepared for the February 2019 consultation was updated to show the revised proposals. The visualisation showed a 3D model representation of the onshore works and offshore breakwater. The visualisation was well received during the event (see Section 3.4). The updated visualisation provided a more accurate representation of the proposed onshore works, clearly showing the changes that had been made since the February 2019 consultation.

The exhibition materials from this consultation event, including the visualisation video, plus the materials from the previous consultations, were also provided on the North Ayrshire Council website.

Consultation with statutory stakeholders and other organisations with a potential interest in the Millport CFPS is ongoing, following the statutory processes required for approval of a flood protection scheme.



Figure 2-1: Consultation materials



Figure 2-2: Showing attendance at the consultation event

3 Consultation questionnaire

3.1 Methodology

As for the previous consultation questionnaires for the Millport Coastal FPS, two survey methods were used:

- i. Online, using Survey Monkey, through a link on North Ayrshire Council's website; and
- ii. Printed questionnaire provided during the consultation workshops.

The questions asked ranged from identification through to satisfaction with the engagement process, as set out in the questionnaire attached as Appendix A. Questions covered the following topics:

- 1 Contact details
- 2 Flood Protection Scheme Proposals
 - i. West Bay Road & Millburn Street
 - ii. Crichton Street

- iii. Clyde Street
- iv. Stuart Street & Harbour
- v. Glasgow Street (Newtown Beach)
- vi. Glasgow Street (Cross House)
- vii. Kames Bay

3 Consultation process

To comply with Data Protection requirements, all personal identification results have been omitted from this report. Where specific comments are discussed, in some cases these have been re-worded slightly to ensure clarity in this report.

3.2 General information and consultation process

There were between 160 and 180 visits made to the August 2019 consultation workshops. In total, 33 questionnaire responses were received. This compares to 116 responses in December 2016, 162 responses in March 2017 and 29 responses (plus 9 student responses) in February 2019.

As well as the questionnaire responses, there were individuals who approached North Ayrshire Council with queries following the consultation event. Detailed responses to those queries have been provided via letter and email.

It seems that the large number of local residents who attended the consultation event felt that they had provided their feedback during their discussions with the Project Team and therefore did not complete the questionnaire.

For previous consultations, questionnaires were posted to all Millport residents. This was considered to be unnecessary at this stage in the scheme development due to the greater awareness of the project within the community, and the number of responses received to previous questionnaires.

When asked to comment on the consultation process the questionnaire responses were strongly positive (**Figure 3-1**). Specific positive comments made included:

- *“well thought out”*
- *“thank you for considering all of the worries and concerns”*
- *“A well thought out and step by step involvement in the consultation process conducted by the Agencies with the Local Community I believe has led to the very supportive and partnership development of the Project to date.”*
- *“The individuals involved in the consultation process ... have been excellent and have been extremely helpful and available at all time - thank you”*

The following concerns were raised:

- There should be an opportunity for open debate rather than just one-to-one discussions between the community and the design team.
- Need more notice and consideration of the local character i.e. high numbers of elderly not on computers.
- More varied types of communication should be used *[suggestions were not provided]*.
- It was requested by one respondent that all parties who have shared their views are kept personally up to date with information about the next steps for the project

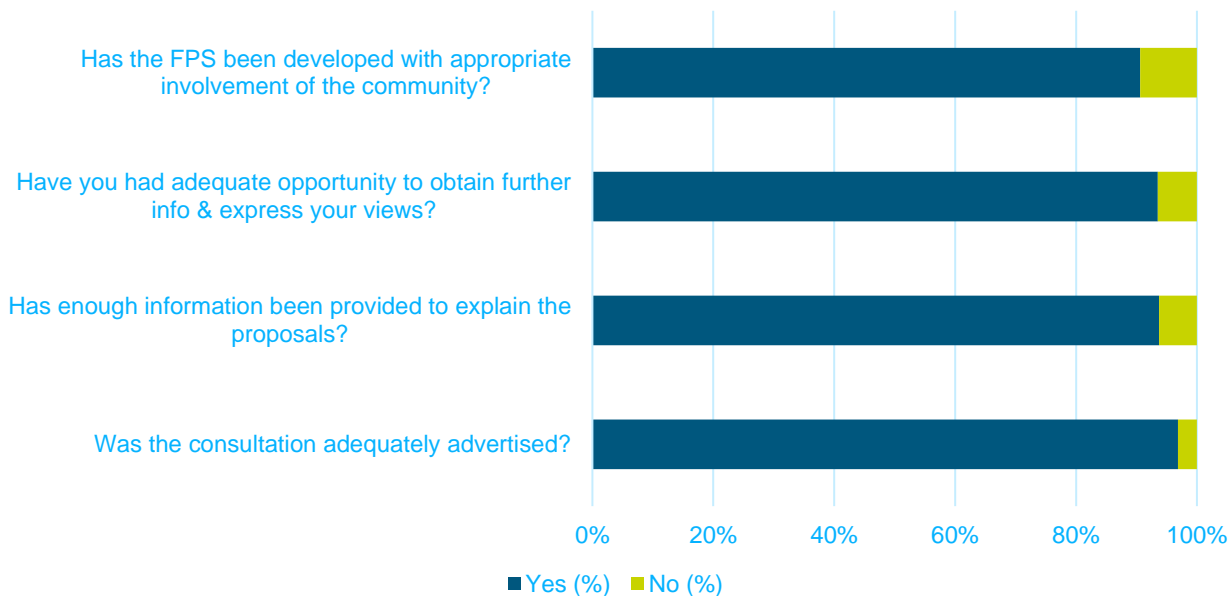


Figure 3-1: Opinions on the consultation process

Comments on the video visualisation were also positive, with 88% of respondents confirming that the visualisation had helped them to understand the scheme proposals. One questionnaire commented that they would have preferred a slower flythrough, and another that the offshore breakwater should have been included. A further comment noted that the scheme was shown at high tide, which shows a more limited visual impact of the breakwaters. The offshore breakwater did form part of the visualisation, although a greater part of the visualisation focussed on the onshore works. Visualisation of the breakwater at low tide was included in the February 2019 version of the visualisation, so the online version of the visualisation could be updated to include this view.

“The eyes on effect of seeing the video brought the whole project to life and individuals perceptions of what had been discussed was clearly evident at the Presentation on the 22 August 2019.”



Figure 3-2: Illustration of comments provided in questionnaire responses

3.3 Acceptability of the scheme proposals

For each part of the proposed Flood Protection Scheme, the consultation questionnaire asked: “Do you accept that the proposed solution is appropriate [for this area]”. Figure 3-3 below shows that the responses to this question were mainly positive.

For previous consultation report, infographics were prepared to summarise the keywords included in the ‘general comments’ sections of the questionnaires. For this report, infographics were found to be unsuitable because of the limited number of detailed text responses. Therefore the specific comments made in relation to each area are summarised below. Questions and comments requiring a response are discussed in Section 3.4.

For all areas, comments were included regarding the appearance of the structures, and their design (in terms of materials/finishes) to be in keeping with the character of Millport, and the specific area where appropriate.

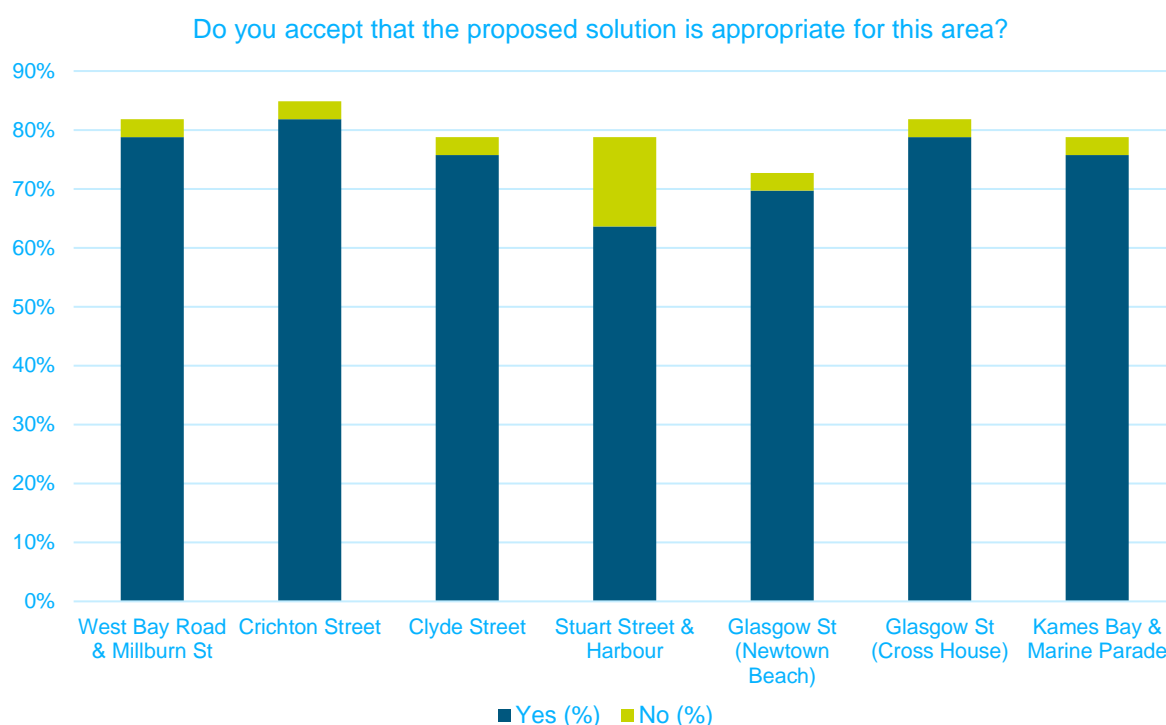


Figure 3-3: Acceptability of the proposals

Comments for West Bay Road, Millburn Street and Crichton Street

- The materials/finish of walls should be appropriate to the area, both colour and texture.
- A reverse curve should be added to the sea facing side of this wall.
- Designs on the concrete of a heritage nature could be used to soften the appearance.
- Effort should be made to source breakwater rock that best matches the existing rock in terms of colour and texture.
- Concerned about the visual impact of the proposed breakwater.
- The steps to the shore on Crichton Street are a good compromise – allow/improve access.
- Works should include improvements to the roads and footpaths adjacent, as in poor state of repair.

Comments for Clyde Street

- Acceptable provided the height of the proposed rock armour is as presented during the consultation.
- Effort should be made to source rock that best matches the existing rock in terms of colour and texture.
- Concerns raised regarding changes to the existing natural appearance of the area.

Millport Pier

- Disappointed that there will be no work to the wooden section of the pier.
- Would prefer to see maintenance continue on the timber section of the pier to keep it functional at least until further marina development works take place.
- Consideration should be given to the possibility that there may be works to the timber pier in the future.
- Contractor should improve the pier to enable off-loading of construction materials (minimise ferry traffic).
- There needs to be a basic landing provision for dinghies.
- Very pleased that the pier is not to be demolished.

Offshore breakwater

- The breakwater must not be left to look like a pile of rocks.
- Concerned about the likely visual impact of the proposed breakwaters. The Leug and the Spoig will essentially be absorbed into the breakwaters.
- Proposals will protect the town with potential for development in marine tourism and infrastructure.
- Offshore breakwater will be beneficial as a flood defence and will create a sheltered area for boats.
- Encouraged by this practical and simple solution.

Onshore works to Stuart Street

- The shape and appearance of the current wall should be changed as little as possible.
- Add visuals of a heritage nature to the walls to reflect history and conservation area status.
- The posts supporting the "Fairy Lights" should remain.

Glasgow Street (Newtown Beach)

- Space must be made available for the many dedicated wooden benches, and other existing benches. Benches are more comfortable than the proposed seating incorporated into the wall. Arm rests are needed to aid standing and sitting, concrete is cold to sit on.
- The proposed separation of cycles and pedestrians is good, as is the new wall.
- The cycle path should be next to the road.
- The cycle path should not be next to where cars park.
- The plan needs to ensure that there is no reduction in the size of the grass area.
- A raised grass level and a shorter wall is a much better solution.
- Jetties getting refurbished is a priority. Access from the sea urgently needs improving, plus a solution for safe dinghy storage at the crocodile jetty.
- Keep or replace the trees once the work is complete.
- An attractive and practical solution. Having attended the previous meetings, I can see that discussions and comments from the community have been taken into account.

Glasgow Street (Cross House)

- The flood problem concerning the side door to the Cross House needs to be addressed if required.

- Safety concerns raised regarding the current condition of the masonry revetment and risk of deterioration before the scheme is completed.
- Any of the necessary work should reflect the character of Millport.

Kames Bay and Marine Parade

- The onshore defences should be dark in colour to be in context with the existing dark coloured buildings, pavements, rocks and walls.
- Any of the necessary work should reflect the character of Millport town.

3.4 Questions and further information

Some respondents asked for additional information and/or raised further questions about the scheme. These questions and the responses to them, or how they will be addressed during the further development of the scheme, are summarised in Table 1.

Table 1 – Questions raised in response to the August 2019 consultation questionnaire

Question	Response / how this question will be addressed
It is unclear whether the existing railings are to be retained or replaced in the proposals for West Bay Road.	The railings along West Bay Road will be removed, with the crest wall constructed in their place. Railings will not be installed on top of the flood wall, because the wall itself will act as a barrier.
How will people access the rock foreshore along Clyde Street.	Access along the natural rock foreshore will still be possible above the crest of the rock revetment. Access to the sea over the rock revetment will not be advised, and it is expected that signs will be installed advising against climbing over the rock revetment.
Will the property title deeds be affected (i.e. ground plan and high water boundary) for properties on Clyde Street.	As discussed during the targeted residents meetings, the property boundaries will not change. The proposed rock revetment will extend above the high water mark, to within the property boundary. Property owners will not own the revetment, which North Ayrshire Council will be responsible for. Appropriate legal agreements will be drawn up between the Council and property owners where necessary. This will be progressed by the Council before the scheme is constructed.
Will rising sea levels ultimately make these breakwaters obsolete.	The design of the breakwaters has considered the expected impacts of climate change, based on current guidance. It is currently expected that the scheme design will provide the design standard of protection for at least 50 years. After 50 years, the breakwaters will continue to reduce wave energy before it reaches the shore, but providing a standard of protection of less than 1 in 200 per year. If required in the future the design standard of protection could be improved by increasing the height of the breakwaters, by increasing the height of the sea wall or by providing individual property protection.
Will there stop being a channel for boats to reach the pier	After the breakwaters have been constructed the navigation channel will need to move from the current channel between the Spoig and the Eileans, to the western channel between the Leug and the shore. Consultation is ongoing with relevant organisations relating to navigation.
The breakwaters should fully close the gaps between the Spoig and the outer Eilean. Gaps will allow heavy seas through at high tide and could appear to non-local small craft to be a viable navigation channel.	It is acknowledged that one of the scheme layout plans implied that there would be gaps at either end of the breakwaters. This is because the plans were based on the actual ground levels of the small islands. The breakwaters will have a continuous minimum crest level of +4.0mODN between the Leug, the Spoig and the outer Eilean. This level is above the high water mark. Waves could overtop the breakwaters during very severe storms, but this is considered in the scheme design. Navigation beacons will be provided on the breakwaters to show that the former channel is blocked. The leading lights will also be changed if required. Admiralty Charts will be changed and an appropriate communication plan agreed with the

Question	Response / how this question will be addressed
	relevant navigation organisations to ensure the sailing community is appropriately informed.
The statement that a Hebridean Princess type vessel could come inside the breakwater is misleading. The Princess will be unable to enter the harbour as there is insufficient depth.	The scheme proposals have been reviewed against the navigation requirements for vessels up to the size of the Hebridean Princess. This review has shown that Millport Bay inshore of the breakwaters would have sufficient space and depth to be navigated by vessels of equivalent size and manoeuvrability as the Hebridean Princess. This review did not consider access to the harbour; the consultation material did not state that the harbour would be accessible to the Hebridean Princess. Appropriate facilities would need to be provided (as a separate project) to enable the Hebridean Princess to berth at Millport.
The flood problem concerning a side door to the Cross House needs to be addressed if required.	The scheme design will address any possible flow routes around the ends of each section of sea wall. This includes the at the side door to the Cross House, where a flood gate will be provided if necessary.
How does the public access the beach especially water sports, horse riders, etc	Access to Newtown beach will not be changed from the current situation. The access point near to the bottom of College Street will be maintained; there will be a gap in the flood wall here. There will also continue to be access paths near to the Crocodile Jetty, and in the existing locations around Kames Bay. The two jetties at the east and west ends of Newtown Beach will be refurbished as part of the scheme, which will improve access for small vessels/watersports.
The plans show that a jetty east of the Crocodile Jetty will be refurbished. There is no jetty in that position. Work should focus on the Crocodile Jetty. It should have provision to leave dinghies tied up at all stages of tide (safely).	This was an error on the plans; an outfall was marked as a jetty. The Crocodile Jetty and the jetty at the west end of Newtown Beach will be refurbished. Provision for mooring dinghies will be considered as part of the design of this refurbishment.
The project is under engineered for the area to the west of the Cross House.	Present day flood risk, and residual risks with the scheme in place have been assessed for each part of the Millport seafront based on detailed wave modelling. This analysis takes into account the ground levels and new flood wall levels for each part of the Millport seafront. Based on best practice modelling and design methods, the design criteria are met in the area to the west of the Cross House with flood wall between 1.0m and 1.2m high, and improvements to the masonry revetment. Drainage improvements will be included in the scheme design to address any residual overtopping, e.g. from spray that carries past the wall.
The masonry revetment at the Cross House needs to be repaired now – there are holes and it is dangerous.	The safety concerns for this area are noted, and NAC will consider temporary solutions in advance of the FPS construction (currently expected to begin in Autumn 2021).
Does the wall extend to the diving dale on Marine Parade? Although damaged this is still used.	The flood wall will end to the north of the diving dale. The poor condition of this area is under review by North Ayrshire Council.
Provide more detail of how cycle paths combine with existing routes, address safety concerns of cycle routes next to parked cars, and how any works to cycle ways would be funded.	<p>Based on consultation feedback, an additional objective for the scheme was identified as improving pedestrian and cycle access along the seafront, by separating the different users of the area where possible.</p> <p>Since the August consultation event it has been confirmed that there are constraints on separating cyclists and pedestrians, because the promenade is legally defined as a Core Path, so cycle access along the promenade cannot be prevented. Solutions to improve the current situation within the scheme area are being reviewed. This assessment is considering the interfaces between cyclists, moving and parked cars, bus stops and pedestrians crossing the potential cycle routes.</p> <p>The FPS funding will not cover the construction of new cycle paths, or for works outside the scheme area (e.g. from the Field Studies Centre to the ferry slip. However, where surfacing needs to be replaced as part of the scheme, this could be</p>

Question	Response / how this question will be addressed
	done in a way that e.g. signposts cyclists and pedestrians towards using separate routes.
There is currently no adequate boat launch slipway on the island. Is their scope, within the planned work, to facilitate a small slip for launching dinghies at all states of tide.	The Flood Protection Scheme does not include a slipway, as this would not be funded by the Scottish Government grant. The two jetties at the east and west ends of Newtown Beach will be refurbished as part of the scheme, which will improve launch facilities for small vessels. It is possible that the construction contractor may need to construct a slipway as part of the temporary works in order to deliver materials to site, but this cannot be specified as a construction requirement.
Have the impacts of the breakwater on seals, birds, fish and water quality been considered?	A detailed environmental impact assessment is required as part of the formal Flood Protection Scheme submission, and for approval by Marine Scotland in advance of construction. This will set out how the potential impacts of the offshore and onshore works have been considered and minimised through the design of the scheme, and any mitigation measures required as part of the construction process. The Environmental Statement will be made available to the public when the scheme is notified.

4 Conclusions

The August 2019 Community Consultation was a very positive event, with good attendance.

Support for the scheme proposals was again strong, building on the positive feedback previously received during the February 2019 consultation. Millport residents provided overwhelmingly positive feedback on how their comments had been taken on board in the development of the onshore elements of the scheme since the February community design workshops.

A relatively low number of questionnaire responses were received. Whilst this is disappointing, given the good attendance at the workshops, it seems that the large number of local residents who took part in the consultation event felt that they provided their feedback during their discussions with the Project Team and therefore did not complete the questionnaire.

The comments and questions about the scheme proposals demonstrate that there are still concerns about the appearance of both the offshore and onshore works. As the design of the scheme progresses this issue will continue to be taken into account, with the aim of minimising visual impact of the works as far as possible.

Access along the seafront, and the interface between pedestrians and cyclists is a recognised issue for Millport. Wherever possible, improvements in access will be included in the scheme design. The approach to addressing the cycling issues throughout the scheme area has not yet been finalised, but it is still the aim that the scheme will incorporate features to encourage cyclists to use a separate route to pedestrians.

A number of concerns were raised regarding the safety of parts of the seafront, such as the masonry revetment near to the Cross House and the diving dale on Marine Parade. These issues have been noted by North Ayrshire Council and are being reviewed.

Millport Flood Protection Scheme

Community Consultation Questionnaire, August 2019

Many homes and businesses in Millport are at risk of flooding from the sea. North Ayrshire Council is developing the Millport Coastal Flood Protection Scheme with close community involvement. In our continued commitment to help people improve their lives on Great Cumbrae, North Ayrshire Council is developing a flood protection scheme to reduce this risk.

The preferred way forward for the coastal flood protection scheme was presented at the consultation event in February 2019, and has now been agreed by North Ayrshire Council Cabinet. You provided feedback on the landscape design proposals for the onshore parts of the scheme at the February consultation, and since then we have completed further work to develop the proposals, taking your views into account.

This consultation event presents the updated scheme proposals, and provides you with a further opportunity to comment before the formal Flood Protection Scheme documents are prepared and submitted for statutory consultation and approval by the Scottish Government.

Additional information about the coastal flood protection scheme proposals, including layout plan drawings and a 3D visualisation of the scheme proposals, are available on the North Ayrshire Council website: www.north-ayrshire.gov.uk/flooding. Information will also be provided during a community consultation event to be held at the Garrison in Millport on 19th and 20th August 2019.

This questionnaire gives you the opportunity to express your views about the preferred scheme. Please complete as much of the questionnaire as you wish. Your views will be taken into account in the preparation of the formal Flood Protection Scheme documents. We will prepare a report to summarise the feedback from the August consultation event and the responses to this questionnaire, which will be made available on the Council website.

Completed questionnaires should be returned to the Garrison House (library information desk) or posted to North Ayrshire Council at the address below, before 16th September 2019. The questionnaire can also be completed online, via the North Ayrshire Council website: www.north-ayrshire.gov.uk/flooding.

Privacy statement

We will only process your personal information provided in this questionnaire to contact you if you have expressly stated you wish to be contacted.

Your personal data will be stored securely, in line with the Council's policies, and only held for as long as is necessary. If you would like to find out more on how we manage your data, please visit:

<https://www.north-ayrshire.gov.uk/privacy-policy.aspx>

Thank you for your time and input. We will keep people informed about the development of the flood protection scheme using newsletters and the North Ayrshire Council website. For any immediate questions please contact:

North Ayrshire Council: Cunninghame House, Irvine, KA12 8EE

Contact: Patricia Rowley

Tel: (01294) 310000

Email: millportcoastalfps@north-ayrshire.gov.uk

Royal HaskoningDHV: Rightwell House, Bretton, Peterborough, PE3 8DW

Contact: Amy Savage

Tel: (01733) 336522

Your contact details

If you would like North Ayrshire to keep you updated on the flood protection scheme proposals please tick here.	
If you would like North Ayrshire Council to contact you regarding your response to this questionnaire please tick here.	

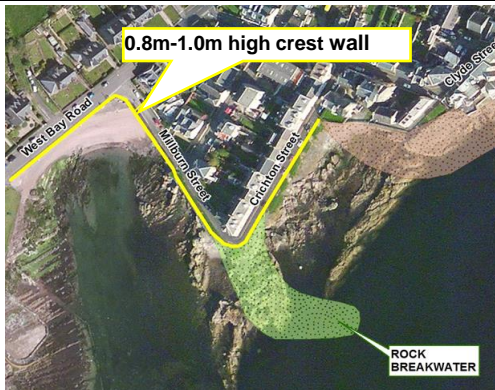
Please provide your name and contact information so that we can contact you:

Name:			
Address:			
Telephone:			
Email:			
Are you willing for North Ayrshire Council to retain your contact details in order to contact you regarding this response and/or the flood protection scheme proposals? Contact details will not be used for any other purpose.	YES		
	NO		

Flood protection scheme proposals

West Bay Road and Millburn Street

- For this area, an offshore solution to provide flood protection is not possible.
- 85m long raised crest wall (0.8m to 1.0m high) and drainage improvements along West Bay Road.
- 115m raised crest wall (1.0m high) and drainage improvements along Millburn Street.
- 50m long shore-connected rock breakwater, extending south-east from the rocks at the corner of Millburn Street and Crichton Street.



Do you accept that the proposed solution is appropriate for West Bay Road and Millburn Street?	YES	NO	Other (please comment)
--	-----	----	------------------------

Comments on the proposals for West Bay Road / Millburn Street (continue on additional page if required):

--

Crichton Street

- For this area, an offshore solution to provide flood protection is not possible.
- 50m long shore-connected rock breakwater, extending south-east from the rocks at the corner of Millburn Street and Crichton Street.
- 100m long wave return flood wall along the seaward side of the footpath (top of the rock foreshore), between 0.8m and 1.0m high, and drainage improvements.
- 40m concrete steps to the beach, replacing part of the existing masonry revetment.
- 25m rock armour revetment, along the south-facing section of Crichton Street.



Do you accept that the proposed solution is appropriate for Crichton Street?

YES

NO

Other (please comment)

Comments on the proposals for this Crichton Street (please continue on an additional page if required):

Clyde Street (we have met with Clyde Street residents to discuss these proposals)

- For this area, an offshore solution to provide flood protection is not possible.
- 90m long rock armour revetment, built over the rock outcrops, to a level of +4.0m ODN (2.2m above the high- water mark, between 1m and 2m below ground level of the adjacent properties).



Do you accept that the proposed solution is appropriate for Clyde Street?

YES

NO

Other (please comment)

Comments on the proposals for Clyde Street (please continue on an additional page if required):

Stuart Street and Harbour

- No works to timber section of Millport Pier.
- 120m offshore rock armour breakwater connecting The Leug and The Spoig.
- 210m rock armour breakwater between The Spoig and the southern Eilean.
- Improvements to the appearance of the top of the existing sea wall and drainage improvements.



Do you accept that the proposed solution is appropriate for Stuart Street and the Harbour area?

YES

NO

Other (please comment)

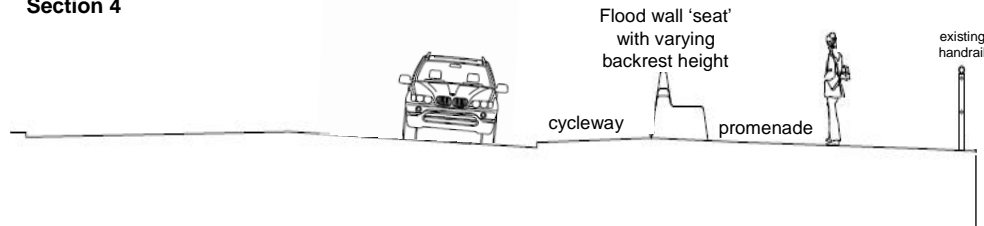
Comments on the proposals for Stuart Street and the Harbour area (please continue on an additional page if required):

Glasgow Street (Newtown Beach)

- 135m long flood wall, between 0.6m and 0.9m high, from Clifton Street to College Street.
- Flood wall positioned between the footpath and the promenade and designed so it can be used as seating. Access will be provided through the wall.
- 20m long flood wall, 0.6m high, to the east of the beach access near to College Street.
- Raise level of grass area by up to 0.6m between College Street and the Crocodile Jetty (200m).



Section 4



Do you accept that the proposed solution is appropriate for Glasgow Street (Newtown Beach)?

YES

NO

Other (please comment)

Comments on the proposals for Glasgow Street (Newtown Beach) (please continue on an additional page if required):

Glasgow Street (Cross House)

The proposed solution for this area has been developed based on discussions at consultation meetings with owners of properties in the Cross House.

- 80m long flood wall, up to 1.2m high, to the west of the Cross House.
- Replace part of the Cross House garden wall with a flood wall (the same height).
- 95m long wave return flood wall, up to 1.2m high, from in front of the Cross House building to Kelburn Street. Concrete steps on the seaward side of this flood wall in places.
- Stone revetment replaced with concrete stepped revetment.

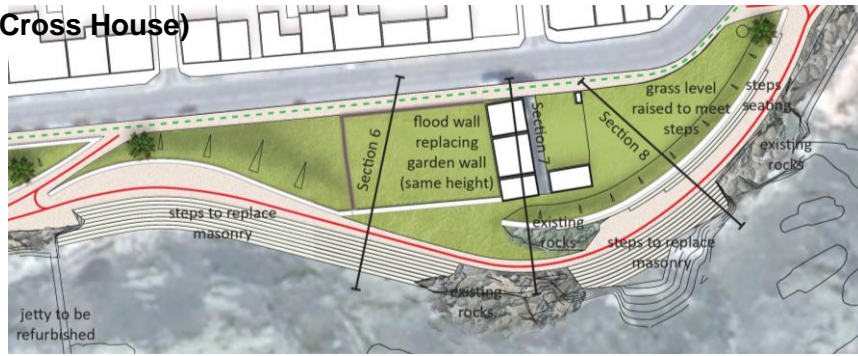
Do you accept that the proposed solution is appropriate for the Cross House area?

YES

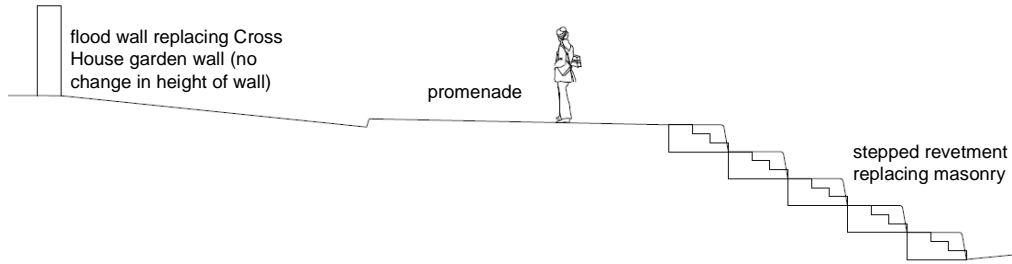
NO

Other (please comment)

Glasgow Street (Cross House)



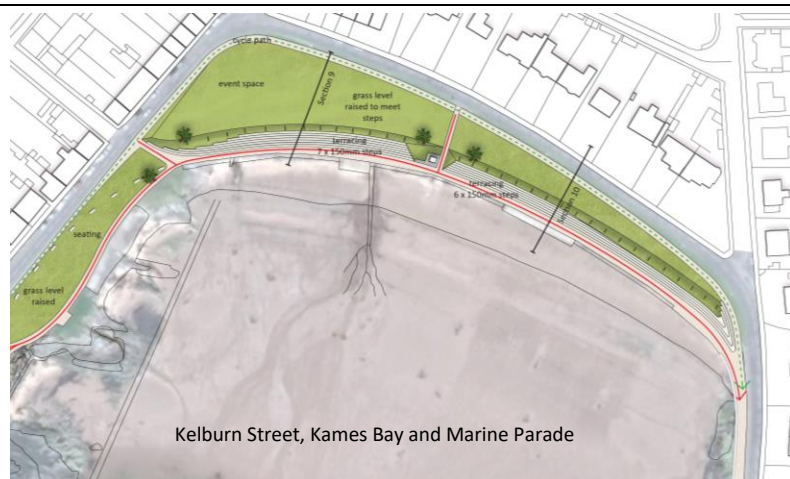
Section 6



Comments on the proposals for the Cross House area (please continue on an additional page if required):

Kames Bay

- Raise the level of the grass bank along 120m of Kelburn Street.
- Raise level of grass areas, and concrete steps down to the promenade, along 290m of Kames Bay.
- 200m long wave return crest wall, raising the height of the sea wall by 0.8m, along the northern part of Marine Parade, including drainage improvements.



Kames Bay (Section 10)



Do you accept that the proposed solution is appropriate for Kelburn Street, Kames Bay and Marine Parade?	YES	NO	Other (please comment)
--	-----	----	------------------------

Consultation Process

The Council wishes to continually improve, so we would appreciate your comments on this consultation process to benefit future exercises like this one.

Was this consultation adequately advertised?	YES	NO
--	-----	----

Has enough information been provided to explain the proposals?	YES	NO
--	-----	----

Have you had an adequate opportunity to obtain further information and express your views?	YES	NO
--	-----	----

Has the Flood Protection Scheme been developed with appropriate involvement of the community?	YES	NO
---	-----	----

Is there any other information that should be provided about the Flood Protection Scheme proposals, or any questions that have not yet been answered?

Did you see the video visualisation of the scheme proposals?	YES	NO
--	-----	----

Did the visualisation help you to understand the scheme proposals?	YES	NO
--	-----	----

Do you have any comments on the video visualisation?

Do you have any other comments on the consultation process?

Additional space for further comments:

Millport Coastal Flood Protection Scheme

August 2019 Community Consultation

Frequently asked questions and answers (page 1)

1. Aims and objectives for this project
2. The Preferred Option
3. How has the community of Millport influenced the development of the preferred option?
4. Millport Pier
5. Costs and Funding
6. Process and Timescales
7. Approvals
8. Works required on land
9. Aesthetics and Landscaping
10. Environment
11. Navigation and Moorings
12. Climate Change
13. Additional benefits of the preferred option
14. Communication

1. Aims and objectives for this project

The principal aim of the Millport Coastal FPS is to protect life and property, providing a 200 year return period standard of protection (protection against flooding from a storm with a 0.5% probability of occurrence in any year). A flood protection scheme for Millport will directly reduce the frequency and severity of flooding to Millport and the problems this causes.

2. The Preferred Option

A Scheme Recommendation Report was prepared which recommended the following preferred option based on technical, economic and environmental considerations:

- A 120m rock armour breakwater connecting The Leug and The Spoig
- A 210m rock armour breakwater between The Spoig and the southern Eilean.
- No works will be undertaken to the timber section of Millport Pier.
- Onshore flood walls and drainage improvements.
- Estimated capital cost - **£27.5 million**.

The preferred option has been approved by North Ayrshire Council Cabinet. The preferred option opens up opportunities for the community to progress a marina development which could accelerate the economic regeneration of Millport.

3. How has the community of Millport influenced the development of this preferred option?

Following the first scheme newsletter, community representatives raised concerns about the proposed nearshore breakwater (extension to Millport Pier). We held a local meeting, at which offshore breakwater solutions were proposed by Millport residents. After the meeting we modelled and assessed these options, which were proven to be technically viable and were taken forward to further development.

During the 2016 consultation workshops the community highlighted that there were flood risks to Kames Bay and Marine Parade. This was confirmed by further consultation, flood risk modelling and assessment.

Works to protect this area are now included in the scheme proposals, and have recently been refined.

Following further community feedback, including the petition 'Save Millport Pier', an additional scheme option was assessed which incorporated works to Millport Pier.

Based on comments about the potential impact of the onshore works, we have reviewed the height of the flood walls making them as low as possible. For example, for part of Glasgow Street, the flood defence level can be achieved by raising ground levels instead of a flood wall.

In July 2019 we met with residents of Clyde Street to provide further information about the rock revetment proposals and better understand their concerns. A visualisation of the revetment has been prepared, and we will agree with residents the best way to minimise the visual impacts of the structure.

We also met with owners and residents of the Cross House to explore the constraints on the scheme design in this area. The meeting resulted in changes being made to the proposals, such as replacing part of the garden wall with a flood wall.

The Council is continuing to meet with the working group which has been established with community representatives, North Ayrshire Council elected members and officers to address community issues relating to the Flood Protection Scheme proposals and related matters, including Millport Pier and the proposals for a marina.

The next stage of consultation is the formal (statutory) consultation on the proposed scheme, which is required before it can be approved by Scottish Government for funding and for construction to go ahead. Further details on this process are included below (Section 6).

4. Millport Pier

Refurbishment of the masonry section of Millport Pier began in April and is continuing through the summer.

Scottish Government has confirmed that grant funding only covers costs directly associated with flood protection works. This means that the regeneration of the timber pier cannot be financed from flood protection funding. It might be possible to seek investment for works to the timber pier from other funding sources such as the Ayrshire Growth Deal.

The preferred option does not include the demolition of the timber pier. This enables plans for the future development of the pier and harbour area to be taken forward as a separate project.

5. Costs and Funding

The estimated costs for the preferred option is much higher than the previously approved scheme budget. Cost estimates have increased due to the introduction of offshore breakwater options, findings of ground investigations and increase in extent of the scheme. However, Scottish Government has confirmed that **the proposed scheme continues to be eligible for funding**.

The preferred option has an **estimated capital cost of £27.5 million**. Based on this estimate, the Scottish Government grant would be £22.0 million, with North Ayrshire Council required to contribute £5.5 million. The final amount of funding from Scottish Government will be calculated based on the value of the accepted construction tender. The cost estimate will be updated on completion of development of the landscape design proposals.

6. Process and Timescales

The expected timescale for progressing the proposed scheme is:

- | | |
|-----------------------------|---|
| • December 2019 | Complete scheme design, EIA and scheme notification documents |
| • Early 2020 | Formal notification of scheme |
| • Spring - Summer 2020 | End of FPS consultation period |
| • Autumn 2020 - Spring 2021 | Detailed design |
| • Spring - Summer 2021 | Tender period |
| • Autumn 2021—Spring 2023 | Construction |

It should be noted that this timescale does not include for a public hearing or inquiry. If either is required due to objections to the formal scheme submission this would delay the project by at least a year, as well as increasing project costs for North Ayrshire Council and the Scottish Government.

7. Approvals

The Millport Coastal Flood Protection Scheme (FPS) will be advanced as a formal FPS under the Flood Risk Management (Scotland) Act 2009. The first stage of the formal process is the publication of documents setting out the scheme proposals. Notification of the start of the process must be given to owner, tenants and/or occupiers of land needed for the scheme. This notice will also be published in newspapers and as public notices.

The documents to be published are:

- A description of the construction works (operations) to be carried out;
- Maps, plans, studies and specifications for these operations; and
- Explanation of how these operations will contribute to the implementation of the flood risk management plan.

When advertised, the scheme documents will be available to view at the Millport Library and Cunninghame House (North Ayrshire Council offices). Information will also be provided on the NAC Flooding website.

Anyone has the right to object or make representations to the published proposals, within set time limits. Full details of how to make an objection will be given when the FPS documents are published. The legal process is a lengthy one. Objections not withdrawn or resolved are likely to result in at least 12 months delay to the delivery of the scheme.

If a valid objection is raised by anyone with an interest in land affected by the scheme, or by any statutory consultee, the Scottish Ministers will be called on to decide whether a Public Local Inquiry or a Public Hearing will be held. An independent Reporter will be appointed, and North Ayrshire Council and any objectors will be given time to prepare their statements. After the Public local Inquiry or Public Hearing, the Reporter will make a recommendation to the appropriate Council Committee or the Scottish Ministers as appropriate.



Frequently asked questions and answers (page 2)

If the Scheme is confirmed after a Public Local Inquiry or a Public Hearing, or if no objections are received, then land owners and occupiers will be notified and finally the scheme will be confirmed. On confirmation of the scheme, North Ayrshire Council will write to Scottish Ministers to request deemed planning consent. Final notification of the legal Flood Order will be made in local newspapers, and there will be at least six weeks for appeals to be lodged and before any work can begin.

To enable construction of the scheme, a Marine Licence and a Harbour Works Order will also be required. The Environmental Statement will be an important supporting document for these applications. Formal consultation is required before a Marine Licence can be issued.

For the Millport Coastal FPS to progress, it will require strong community support. Formal objections to the scheme can lead to significant delays, cost increases, and could potentially prevent a scheme from being approved by Scottish Government, thereby losing the investment opportunity provided by the scheme.

8. Works required on land

The offshore breakwaters will only protect Stuart Street, Guildford Street and part of Glasgow Street from wave overtopping. Breakwaters will not sufficiently reduce the risk of flooding to the west of Millport Pier, or to most of Glasgow Street. Offshore breakwaters extending east from the Leug, or east from the Eileans, are not technically or financially viable solutions. Therefore, **onshore and foreshore works are also required** to provide a complete flood protection scheme for Millport.

- A **shore-connected rock breakwater** will extend seaward from the corner of Millburn Street and Crichton Street by about 50m, and would be about 20m wide. The top level of the breakwater will be about the same as the road level along Crichton Street (+4.0mODN).
- A **rock armour revetment** will be built over the rocky foreshore seaward of Clyde Street. The top of the revetment will also be about +4.0mODN. This is about 2m above the spring tide level, and 1-2m below the property gardens. Without this revetment, the garden walls would need to be rebuilt to a higher level.
- In some places the existing stone revetments will be replaced with **stepped concrete revetments**. At Crichton Street, this will help to maintain access to the foreshore. At the Cross House, the stepped revetment enables a lower flood wall.
- The **height of the sea walls will be increased** along West Bay Road, Millburn Street, Crichton Street, and Marine Parade. **Flood walls** will be needed along parts of Glasgow Street.
- The height of the flood walls and sea walls will vary in each area. **We will make sure that the flood walls are as low as possible.** For parts of Glasgow Street, Kelburn Street and Kames Bay, the flood protection requirements can be met by **raising the level of the grass areas** instead of using walls.
- During the meeting with Cross House property owners it was agreed that it would be best to **replace part of the garden wall** with a flood wall, instead of a higher wall next to the promenade.

- **Drainage improvements** will be included as part of the crest wall and flood wall works, and suitable access provided.

9. Aesthetics and Landscaping

North Ayrshire Council recognises the tourism and conservation aspirations of Millport. We want to work with you to develop a landscape design that minimises any negative visual impacts during the construction works and in the longer term.

We have developed the landscape design proposals based on your comments at the February 2019 consultation, and the questionnaire. Important considerations include:

- maintaining easy access to the promenade and beach from shops and homes, for example by raising ground levels to provide flood protection wherever possible, instead of walls;
- the position of the flood walls, such as around the Cross House;
- what the flood walls should look like, including their shape and the materials used to build them;
- designing the flood walls so that they can be used as seats;
- maintaining or improving access to the foreshore, e.g. by replacing some of the stone revetments with stepped concrete revetments;
- improving the condition of the jetties on Newtown Beach;
- providing foreshore access for small craft (e.g. kayaks) at West Bay;
- the way the area is used and could be used in the future; and
- other opportunities to improve the appearance of the seafront.

As well involving the community in the landscape design, we are working with North Ayrshire Council's planning team regarding the appearance of the scheme within the historic setting of the Millport Conservation Area. A Design and Access Statement will be included in the Environmental Statement.

10. Environment

The Flood Protection Scheme could have impacts on the environment, during construction and in the longer term. In developing the scheme design, we are assessing impacts on people and the environment, and identifying ways to minimise and mitigate against these impacts.

The most important issues for selection of a preferred option relate to impacts on the human environment, including visual appearance, impacts on tourism and the economy and changes to navigation in Millport Bay. The importance of these issues is reflected by the Council's investment in consultation and the changes that have been made to the scheme proposals based on consultation feedback.

An Environmental Impact Assessment (EIA) will be completed because the scheme will change the marine environment. An Environmental Statement will be prepared for the preferred option and will confirm the mitigation measures that are required as part of the scheme. The mitigation measures will be implemented through appropriate design and the construction methodology.

We will continue to consult with stakeholder organisations and the community of Millport as part of the environmental assessment process and take your views into account as the scheme is developed.

11. Navigation and Moorings

The preferred option will change navigation routes in Millport Bay. We have reviewed the potential navigation risks and consulted with navigation organisations, which has demonstrated that safe navigation inshore of the breakwaters should be possible for recreational vessels, and vessels of a similar size to the Hebridean Princess, depending on sea conditions. But it will no longer be possible for the Waverley to berth at Millport Pier.

The preferred option will also mean that some of the existing moorings in Millport Bay will need to be changed. We are consulting with The Crown Estate Scotland about these changes.

Suitable aids to navigation will be included in the scheme design, and the relevant charts will need to be updated.

12. Climate change

The wave modelling and design undertaken to develop the potential scheme options considered the level of flood risk to Millport with and without the impact of climate change. However, visual impact of the onshore works is a significant constraint, and the design aims to minimise the height of the flood walls. So it was decided that the initial standard of protection of the scheme should be 1 in 200 per year (0.5% AEP) without an allowance for climate change. The scheme will be designed so that adaptation to address climate change impacts can be undertaken in the future.

13. Additional benefits of preferred option

Although works to Millport Pier cannot be funded as part of the Flood Protection Scheme, the scheme will enable future works to the harbour area to be taken forward as a separate project. Funding for further works might be available from the Ayrshire Growth Deal.

Within the sheltered area created by the offshore breakwaters, it might be possible to develop a small marina. A working group has been established with community representatives, North Ayrshire Council elected members and officers to address community issues relating to the Flood Protection Scheme proposals and related matters including Millport Pier and the proposals for a marina.

14. Future communication

For a Flood Protection Scheme to progress it will require strong community support. North Ayrshire Council is committed to working closely with the local community throughout the life of this project.

The current consultation event provides an update on the developing scheme design. **Questionnaires are available for you to provide your comments**, which can be returned to Millport Library. The questionnaire can also be completed online, via the NAC Flooding website. This consultation will close on Monday 16th September 2019. We will collate the feedback responses and prepare a consultation report, which will be made available via the NAC Flooding website.

Any significant changes to the scheme proposals before the statutory approval process will be communicated through the usual channels.

APPENDIX C - TABLE OF QUESTIONNAIRE RESULTS

[illegible]

Is that the proposed solution is for Glasgow Street (Cross House)? No Other (please specify)		Comments on the proposals for the Cross House area. Open-Ended Response	Do you accept that the proposed solution is appropriate for Kames Bay? Yes No Other (please specify)		Was this consultation adequately advertised? Yes No		Has enough information been provided to explain the proposals? Yes No		Have you had an adequate opportunity to obtain further information and express your views? Yes No		Has the Flood Protection Scheme been developed with appropriate involvement of the community? Yes No		Is there any other information that should be provided about the Flood Protection Scheme proposals, or any questions that have not yet been answered? Open-Ended Response		Did you see the video visualisation of the scheme proposals? Yes No		Did the visualisation help you to understand the scheme proposals? Yes No		Do you have any comments on the video visualisation? Open-Ended Response		Do you have any other comments on the consultation process? Open-Ended Response	
No			Yes		Yes		Yes		Yes		Yes		Yes			Yes		Yes				well thought out
			Yes				Yes		Yes		Yes		Yes			Yes		Yes				
							Yes		Yes		Yes					Yes						
			Yes		Yes		Yes		Yes		Yes		It seems that the worries about the seals and birds and fish have been considered. I hope this is the truth.		Yes		Yes				thank you for considering all of the worries and concerns	
			Yes				Yes		Yes		Yes					Yes		Yes				
		Very Good	Yes				Yes		Yes		Yes					Yes		Yes				
			Yes				Yes		Yes		Yes					Yes		Yes				
			Yes				Yes		Yes		Yes					Yes		Yes				
		Is there a real need to refurbish the above jetty? Currently there is no jetty in that position. Would suggest to focus work, and budget, on the crocodile jetty just to the west of this one. It should have provision to leave dinghies tied up at all stages of tide (Safety). A Basic Pontoon would be ideal.	Yes		Yes		Yes		Yes		Yes		Yes		There is currently no adequate boat launch slipway on the island. Is their scope, within the planned work, to facilitate a small slip for launching dinghies at all states of tide	Yes		Yes				
			Yes		Yes		Yes		Yes		Yes					Yes		Yes				
		Excellent, Great plan and very attractive	Yes	No		Yes		Yes		Yes		Yes				Yes		Yes				
			Yes			Yes		Yes		Yes		Yes				Yes		Yes				
					Yes		Yes		Yes		Yes		only that expressed by me above								it is a pity that it did not imitate the off shore breakwater proposal	
			Yes		Yes		Yes		Yes		Yes		NO		Yes		Yes		Yes			Just need more notice and consideration of the local character ie high 90 of elderly not on computers, need greater notice and more warned types of communication
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes		Yes		Yes		Yes				Yes		Yes		Yes				
		Yes		Yes</																		

Appendix 2 – Images from the visualisation video as shown in the August 2019 Community Consultation



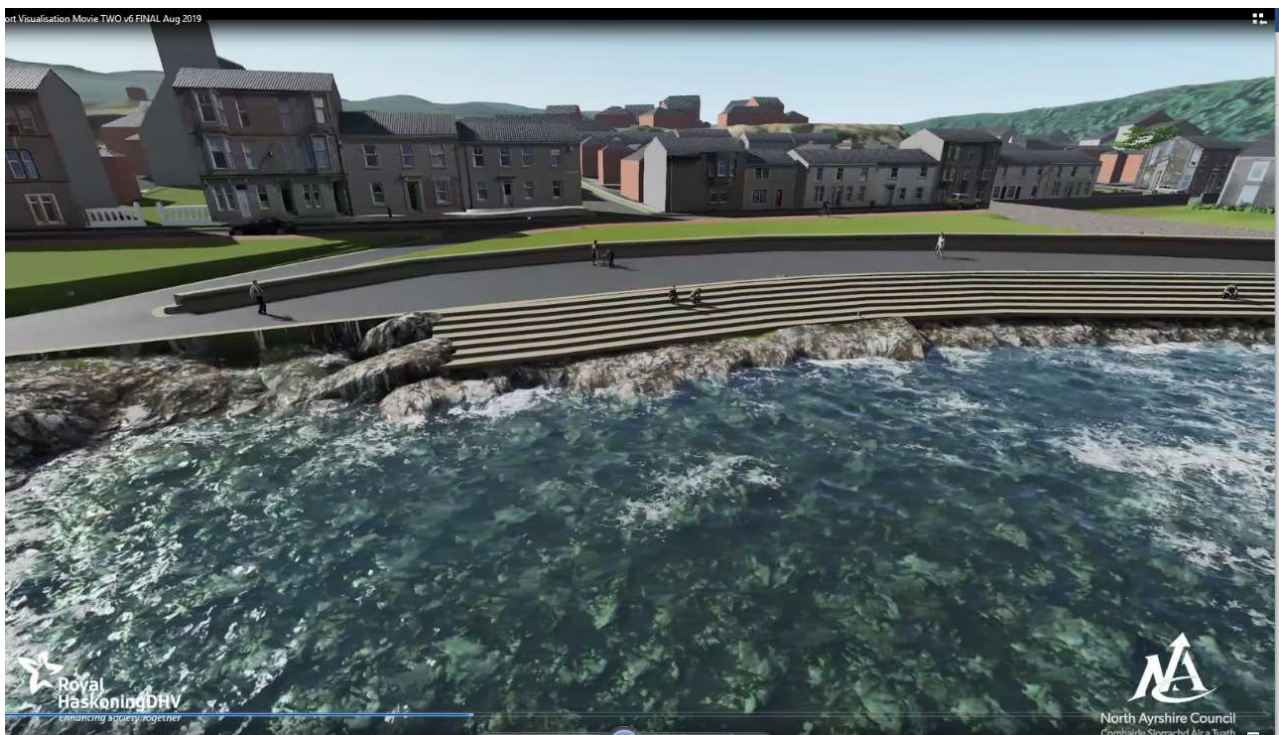
Kames Bay _ image1



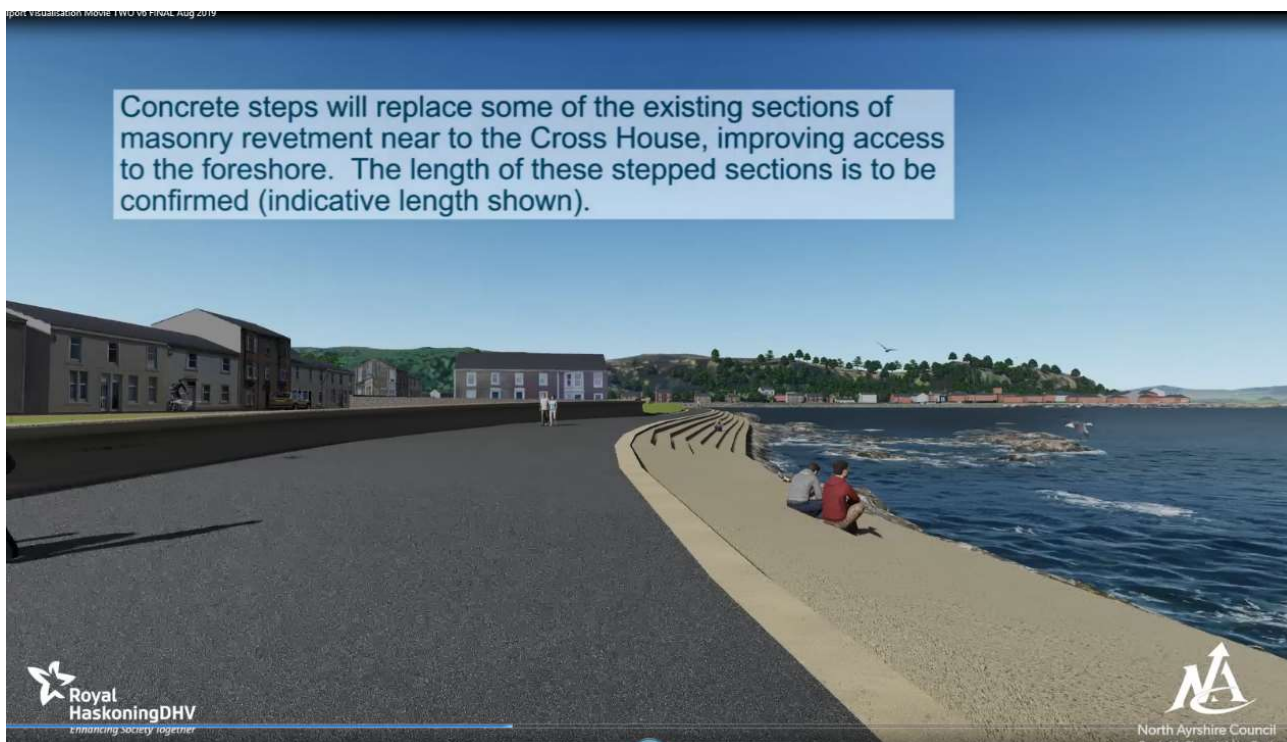
Kames Bay _ image2



Kames Bay _ image3



Cross House/George Street _ image4



Cross House/George Street _ image5



George Street _ image6

In front of the Garrison House, a concrete flood wall will be built along the line of the existing benches. The wall will be between 0.6m and 0.9m high, and will be designed so that it can be used as a seat.



In front of Garrison House_ image7

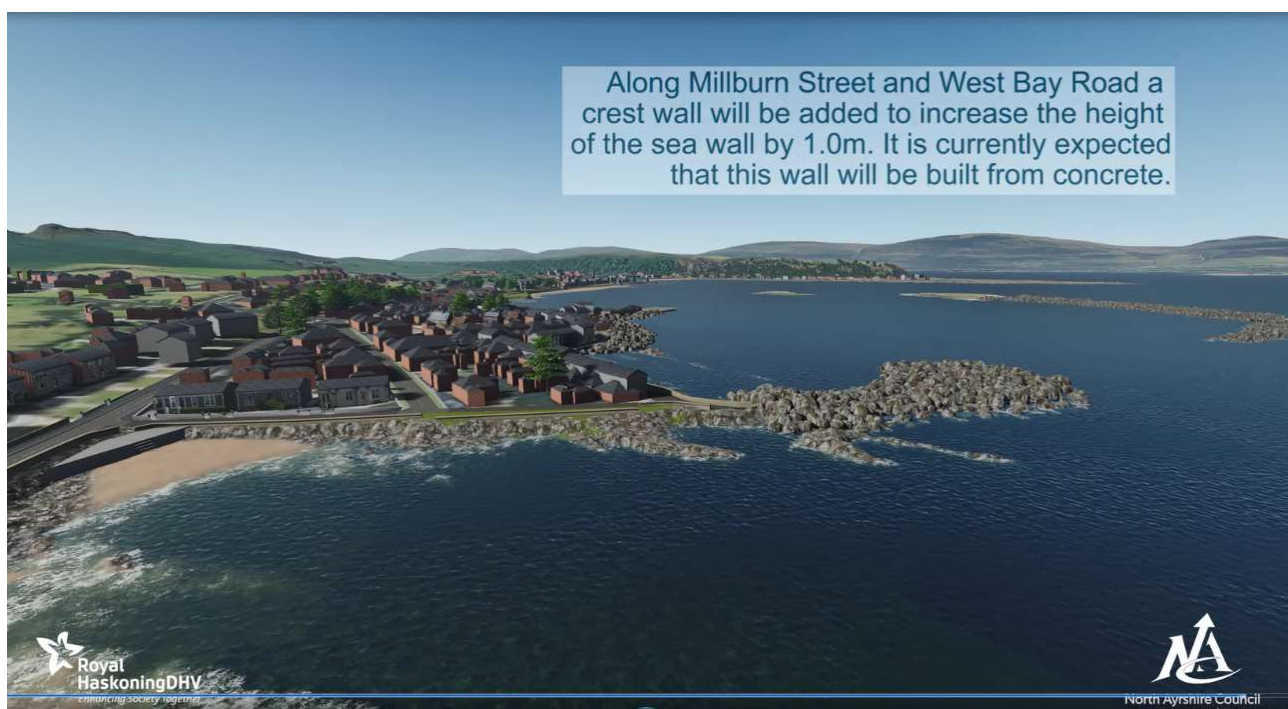
A rock armour revetment will be built over the rock foreshore seaward of Clyde Street. The rock armour will absorb wave energy and reduce overtopping, so that the garden walls don't need to be raised. The size of the revetment will be optimised to minimise visual impact.



Clyde Street_ image8



Crichton Street/Miller Street _ image9



West Bay Road/Millburn Street _ image10