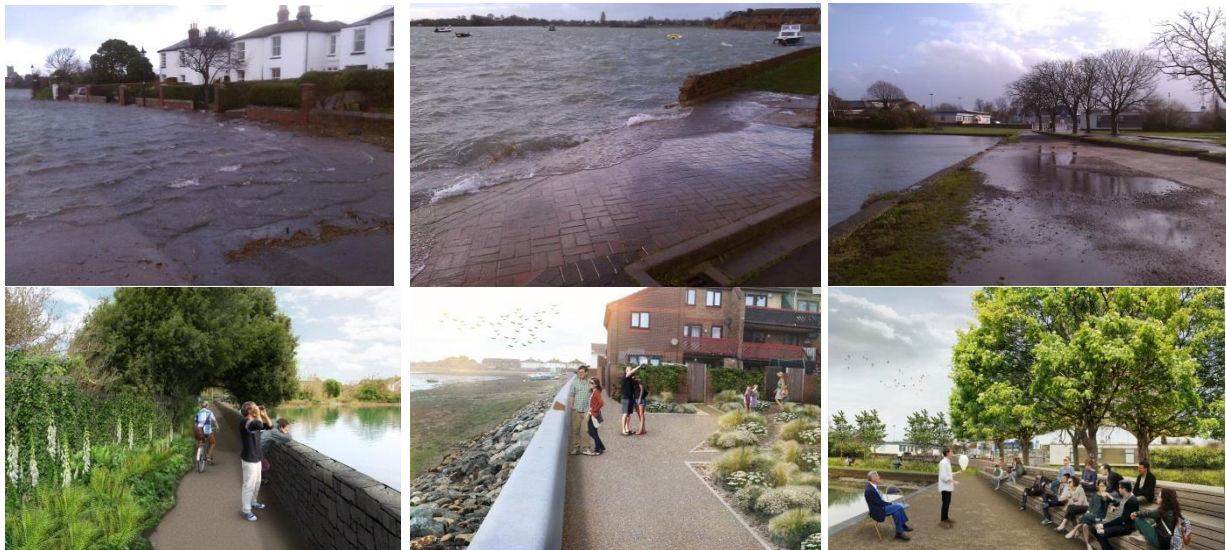




GOSPORT
Borough Council

Gosport FCERM Priority Schemes

Outline Design Exhibitions 17th/ 20th/25th July 2017



working together - protecting our coastline



**EASTERN
SOLENT | COASTAL
PARTNERSHIP**

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Author(s): Rachel Cook

Client: Gosport Borough Council

Prepared by: Rachel Cook

Checked by: A Sennitt, Y Larkin

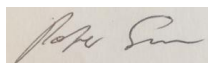
Date/initials check: AS 3/8/2017 YL 4/8/2017

Approved by:

Name (Print): Peter Scannell

Date/initials 14/8/17 PS

Approval:



1. Introduction

This report summarises the three Gosport public exhibition events, held to present the outline design options for three priority flood defence schemes in Gosport to the public. Potential defence options were originally assessed from a wide ranging long list to the shortlist. The shortlist of options was appraised by our engineering consultant Royal Haskoning, who recommended the outline design options. Subject to funding and consents approvals, construction could begin as early as Spring 2019. The project is being delivered by the Eastern Solent Coastal Partnership (ESCP) on behalf of Gosport Borough Council (GBC).

1.1. Reason for project

A Shoreline Management Plan (SMP) is a high level policy document setting out a framework for future management of the coastline. The SMP makes recommendations on how the coastline should be managed over the next 100 years. It was adopted by GBC in 2010 and recommends a 'Hold the line' policy to maintain or upgrade the level of protection provided by the coastal defences in this area.

A strategy looks at how the SMP policy can be implemented at a more local level and identifies areas where work may be required over the next 100 years.

The River Hamble to Portchester Strategy (The Strategy) covers a 58km (36 mile) stretch of coastline between Burridge on the east bank of the River Hamble and Portchester Castle (in Portsmouth Harbour). This coastal frontage is highly varied and ranges from very sheltered estuarine and creek environments to much more exposed open coast beach environments.

The Strategy recommended **three priority schemes** in three areas of Gosport. Forton, Seafeld and Alverstoke are referred to by the strategy as "vulnerable areas" in which there is significant risk of tidal flooding.

Together, the three schemes have identified that 257 residential and 9 commercial properties are at present day risk from a 1 in 100 year tidal flood event. This increases to 1,272 residential and 36 commercial properties to the year 2115.

Also at risk over the next 100 years are over 36 listed buildings, environmentally designated areas, foul water sewers and electricity sub-stations as well as other critical infrastructure.

1.2. Project Delivery

In August 2016, the Environment Agency approved funds for Gosport Borough Council (GBC) to develop outline designs. The ESCP are using the funds on behalf of the GBC to design three priority tidal Flood and Coastal Erosion Risk Management Schemes.

Royal Haskoning (RHDHV) has been appointed to support the development of design options and provide engineering support. A shortlist of design options has been refined to a recommended leading option for each scheme. The concept designs and landscape plans were exhibited at the three drop-in exhibitions for the public to view and offer their opinions.

Construction could start in Spring 2019, subject to further funding approval from the Environment Agency and other sources, as well as gaining the appropriate licenses and consents

This report provides an overview of the publicity carried out prior to the event and a summary of the feedback received on the day from the attendees.

2. Exhibition Events

2.1. Overview

Three public exhibitions were held on the 17th, 20th and 25th of July at three venues local to each of the three schemes. The first was held on the 17th July at the Gosport Scout Activities Centre on Clayhall Road in Alverstoke. The second on the 20th July was held at the Gosport Discovery Centre close to the Seafield Scheme, and the final exhibition was held at St Vincent Sixth Form College in Forton on the 25th July. The aim of the events were to present the outline design options to the public to allow better understanding of the proposal, get feedback from the public to help inform the detailed design and for the public to understand timescales and restraints applicable to the project as for many this would have been the first they'd heard about the schemes.

The three venues were selected as they are located in close proximity to residents surrounding the three scheme sites and an easy to find landmark for non locals. All three events ran from 1pm – 6.30pm, increasing the chances for the public to attend.

Almost 200 people attended the three public events, with a total of 80 feedback forms completed. In summary:

- **84% either strongly or mostly supported the overall leading option for the Forton scheme.**
- **90% either strongly or mostly supported the overall leading option for the Seafield scheme.**
- **76% either strongly or mostly supported the overall leading option for the Alverstoke scheme.**
- **81% of those visiting the exhibition said the information presented was of a good or very good standard.**

A more detailed summary of the results is found on page 8 and the full feedback form answers are available in *Appendix A* along with a selection of comments.

2.2. Advertising and Publicity

The events were widely advertised to local residents, local businesses with a comprehensive letter drop carried out around all three local areas before the event. The leaflet provided the public with key information about the schemes and the details of the events (*Appendix B*). Posters were put up at key community areas in Gosport including A1 poster display at the Gosport Discovery Centre and A4 posters in local convenience stores and community areas such as St Mary's Church in Alverstoke.

In addition, the exhibition events were advertised on the ESCP website, and received 370 additional webpage views in the two week lead up to the exhibitions. Furthermore, the events were advertised through ESCP social media accounts. A post advertising the events on Facebook reached over 1,000 people, with the links further shared by the Gosport Borough Council social media accounts. A press release was also sent out which reached local newspapers and websites. Figure 1 shows a variety of different media advertising the event.



Figure 1: Poster display and social media advertising the events.

2.3. Event Content

In total, nearly 200 people attended the exhibition events. On arrival, visitors were asked to mark on a map where they came from. The spread of visitors is shown in *Figure 2*. The majority of visitors were from the Alverstoke area.

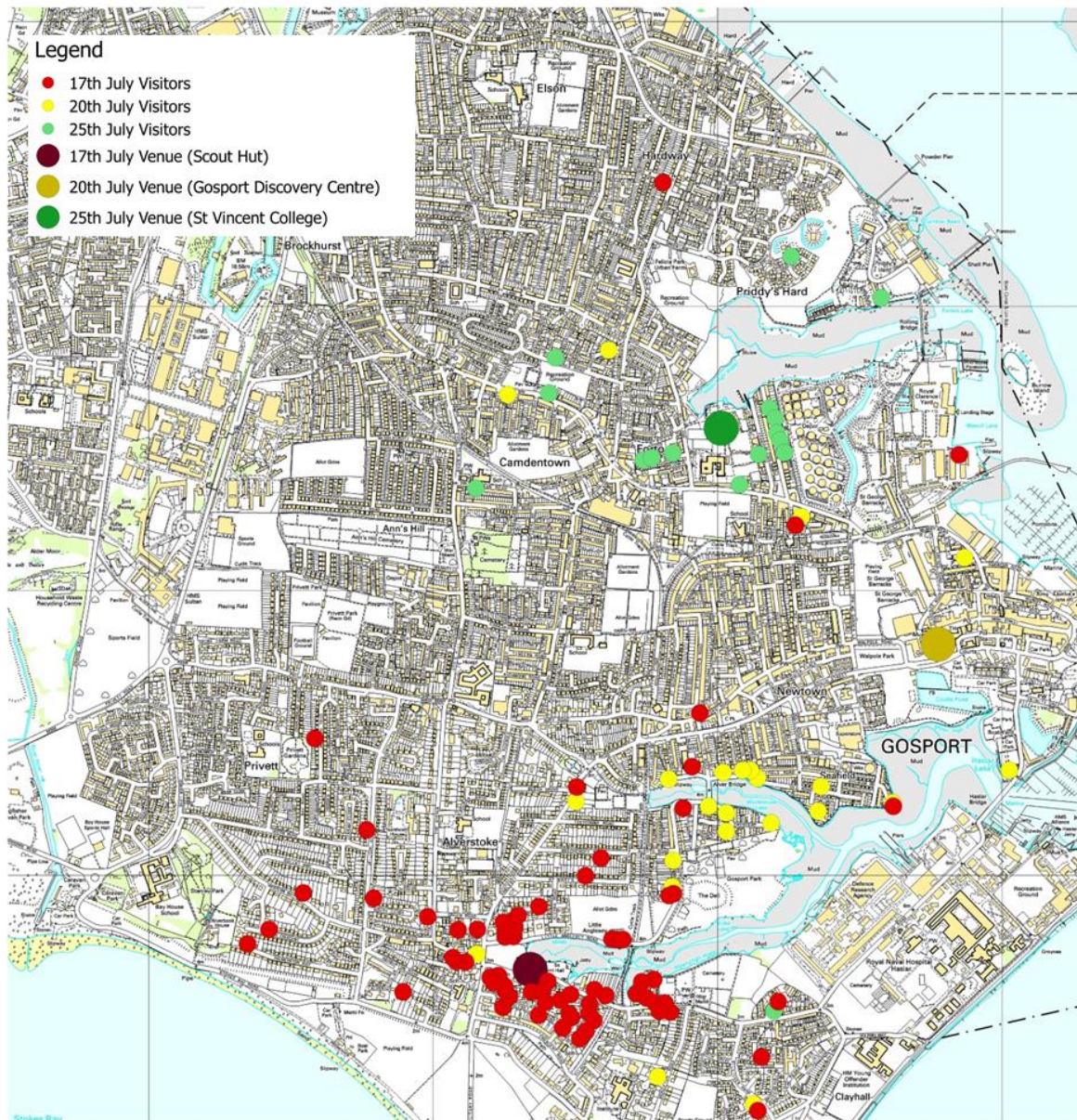


Figure 2 – Map of where the visitors came from.

The content of the exhibitions was designed to communicate why the schemes are being proposed and what they could look like, through a series of poster boards detailing;

- **Roles and responsibilities** of the ESCP, exploring flood and coastal erosion risk management and the impact of climate change,
- **Project introduction**, explaining why the three schemes are necessary and how they have got to this stage, looking at the shoreline management plan and the strategy as well as what is at risk if we did nothing,

- **Story so far** showing the work done to date including ground investigations, appointment of designer, and licenses and consents,
- **Preferred option** showcasing artist impressions of proposed works for the three schemes,
- **Project timeline**, detailing key stages of what the project team will be working on and approximate timescales.

Examples of the posters used at the event can be seen in *Appendix C*.

The project team were on hand to answer any questions and there were refreshments available for visitors to enjoy. Photos from the exhibitions can be viewed in *Appendix D*.

2.4. Feedback from results

Each visitor was asked to fill in a feedback form to share their views on the preferred coastal defence options and the exhibition. A summary of results of the 80 feedback forms received are displayed in this section, with a full list of results detailed in *Appendix A*. Overall the results and feedback gained from the exhibition have been very positive.

In summary:

- **96% of people felt they understood the flood risk to the local community which the schemes are looking to protect**
- **24% of people weren't aware of the flood risk prior to the exhibition**
- **69% of those who attended were interested in the scheme due to being residents of Alverstoke**
- **83% average between the three schemes either strongly supported or mostly supported the schemes**
- **81% of people rated the standard of information given as good or very good**

2.5. Comments received

Table 1 below displays a sample of further comments received from the public on the day.

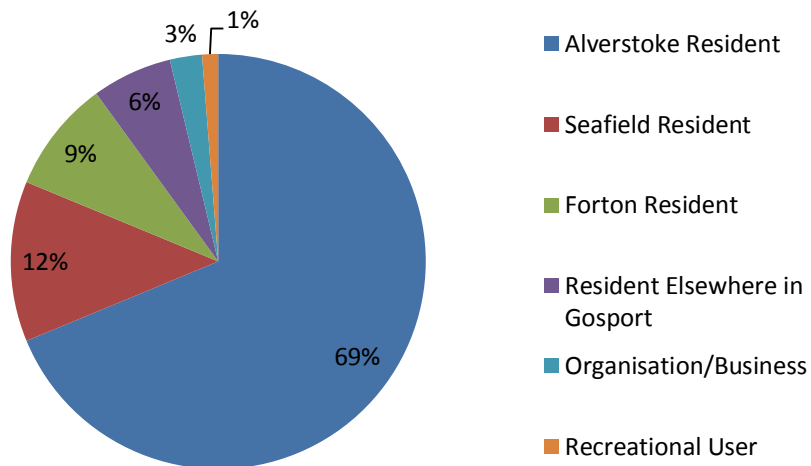
<i>"Excellent information imparted to us through the staff as well as an immaculate presentation of a future vision"</i>
<i>"A very well organised event. Lots of good information gained. All staff present greeted us well. Good layout of info boards."</i>
<i>"Very well presented by a knowledgeable team."</i>
<i>"Well designed and attractive styles"</i>
<i>"A valuable improvement to safeguard local homes and businesses"</i>
<i>"A great deal of thought has been given to presentation as well as our future needs."</i>
<i>"Very keen to see the scheme materialise but also very keen that the materials used are in keeping with the history and character of the area – i.e. no vast areas of exposed concrete."</i>
<i>"Thanks very much. Would welcome a larger-scale map showing the flood risk area."</i>
<i>"Flood maps insufficiently detailed for red risk areas."</i>

Table 1 – A sample of further comments received from the public

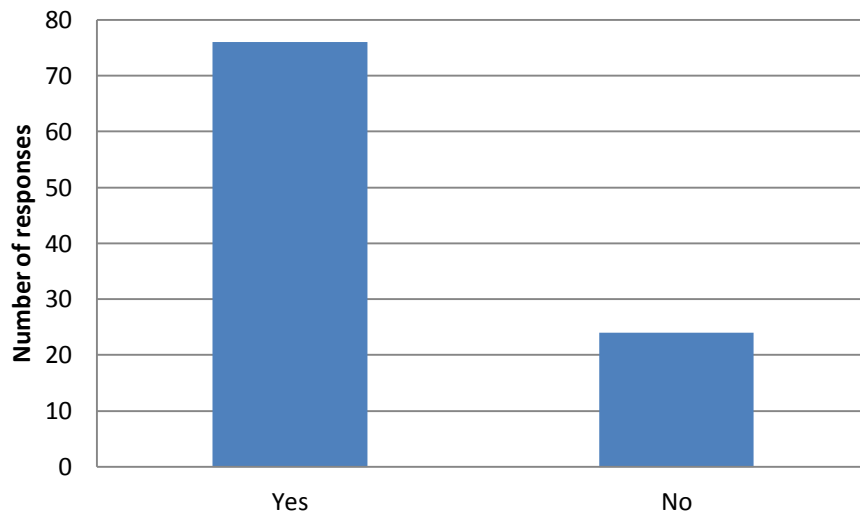
For those residents that were unable to attend, the feedback form was made available for a week afterwards on our website. To accompany this, the posters that were presented were also made available on the project webpage for review, along with other supporting information.

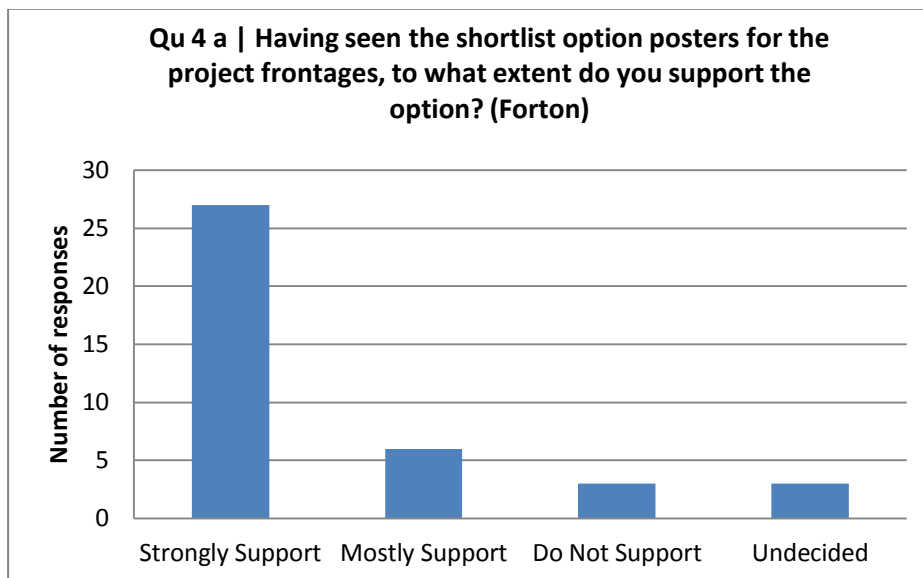
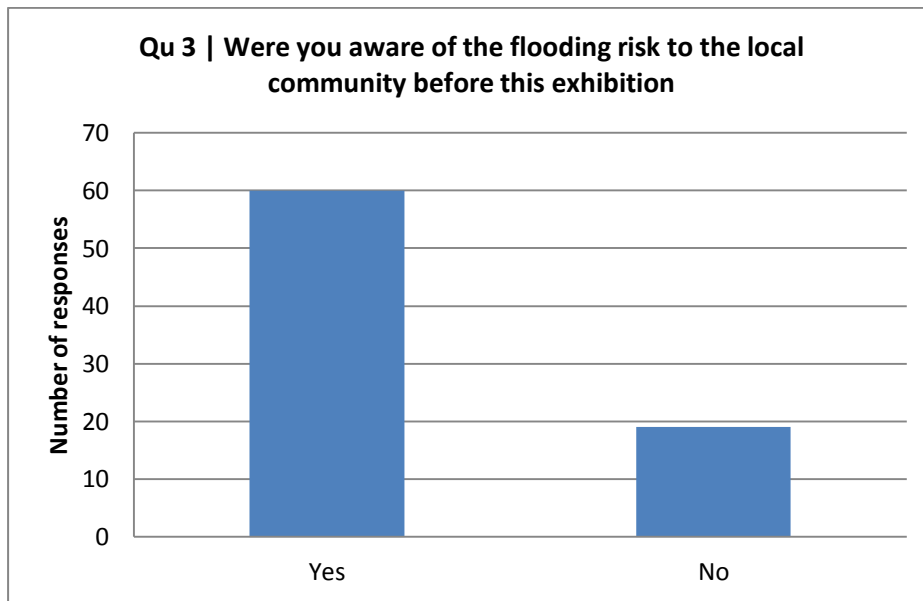
APPENDIX A - Summary of questionnaire answers

Qu 1 | What is your interest in the coastal defence schemes?

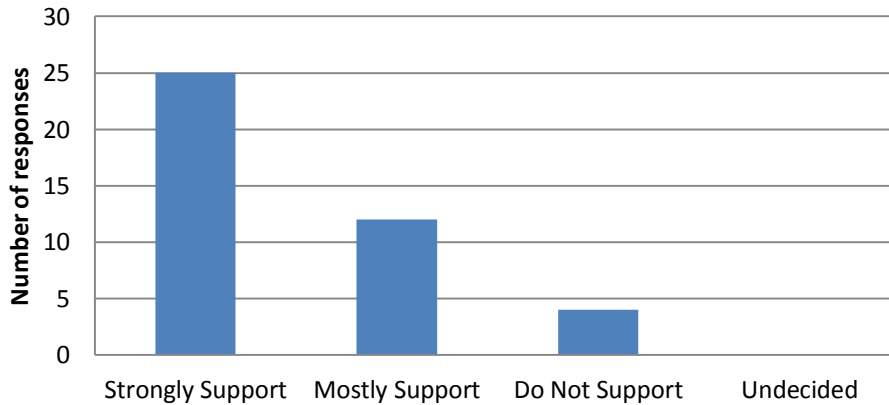


Qu 2 | Do you feel you understand the flooding risk to the local community which the flood defence schemes are looking to protect?

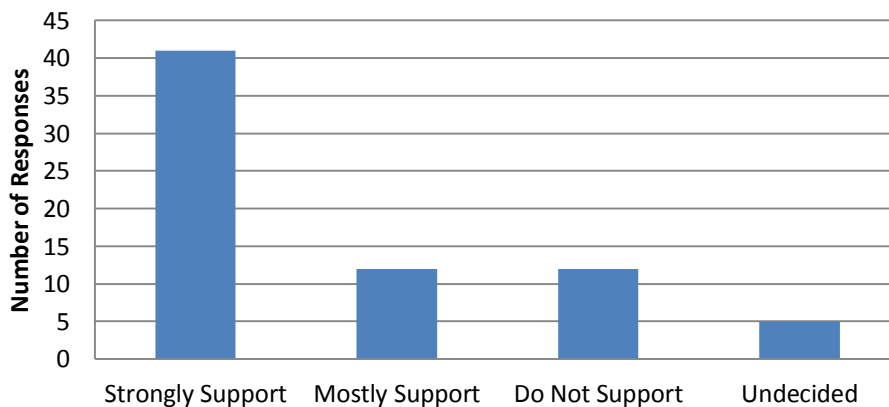




Qu 4 b | Having seen the shortlist option posters for the project frontages, to what extent do you support the option? (Seafield)



Qu 4 c | Having seen the shortlist option posters for the project frontages, to what extent do you support the option? (Alverstoke)



Question 4 allowed people to expand their answers. Below show a summary of the key points raised:

Flooding creates horrendous impact on the community when it occurs, so preventive work makes absolute sense. The plan shown looks aesthetically pleasing and enhances the existing environment in my view.

Alverstoke – retains views and generally improves the walkway. Forton – Will tidy up this area as well as save adjacent housing without destroying heritage. Seafield – the area nearest the harbour is most definitely needed.

Protection and beautification of the area.

This appears to be a cost effective method of securing the area.

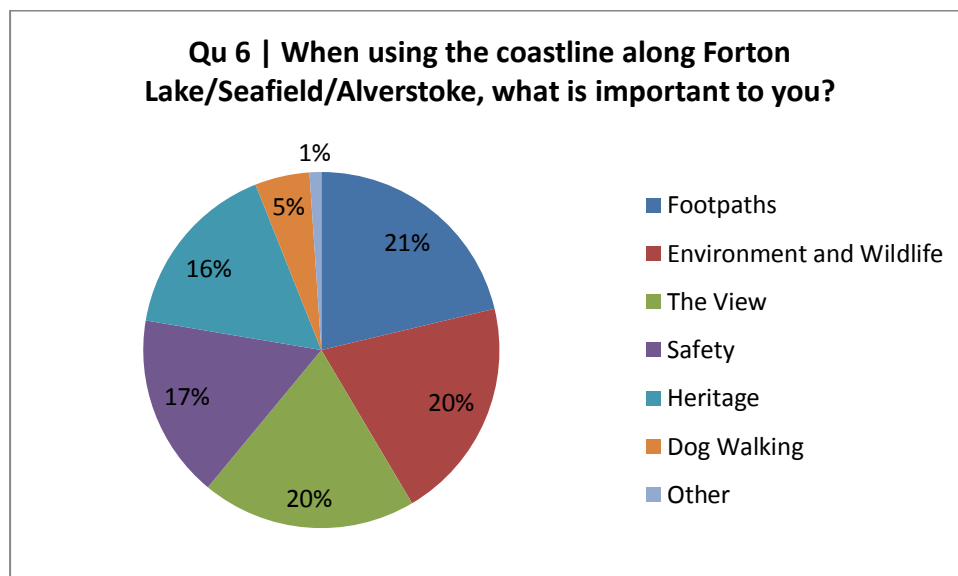
Question 5 asked: Do you have any additional information or ideas that you think might be useful? (Including photographs of flooding of the coast).

The following table shows a sample of some of the comments and ideas.

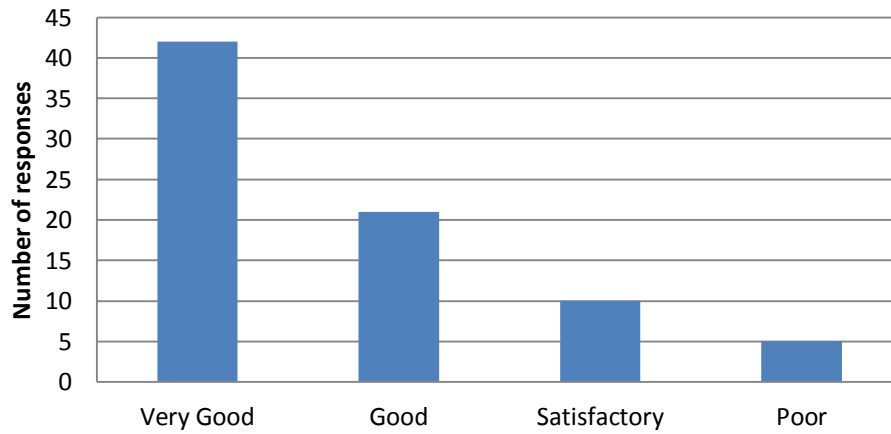
To incorporate the defence with the existing weir makes much sense on grounds of environment, flood protection, maintenance, lack of vandal opportunities and effectiveness.
An improvement to the weir under Jackie Spencer Bridge, shutting off the tide completely would be a better option and cheaper.
Build up the swan nesting island on the Alverstoke lake so they can successfully bring a brood to adulthood.
Could raise the level of the swan nesting island in Alverstoke Lake as they lose their eggs every year due to high tides.
Like the idea of the Forton seawall seats.
Would be environmentally-aesthetic if the walls could have an old-fashioned look-stone effect to blend in more naturally with the surroundings and not look so modern (i.e. with the smooth slate grey).
Seawall alignment at Seafield bungalows. For safety reasons enlarge path for access.

The comments suggest that popular ideas include:

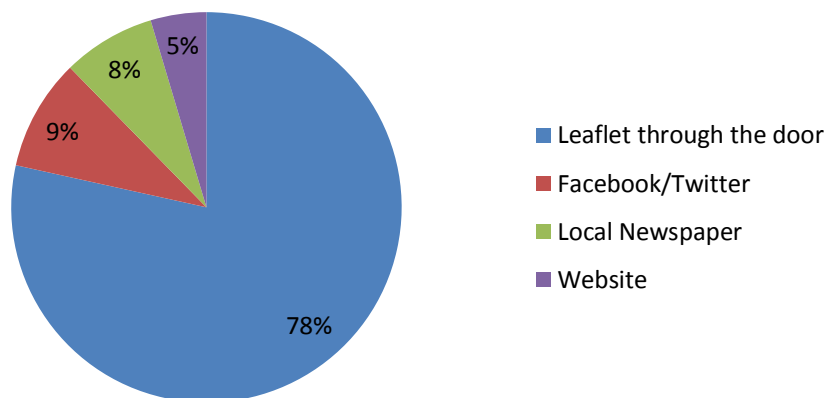
- attention to the wildlife on Alverstoke lake, specifically raising the swan nesting islands
- blending the new defences in with the current environment, such as maintaining the old-fashioned look preserved by the Alverstoke Conservation Area
- improvement to the weir under the Jackie Spencer Bridge could act as an alternative flood defence



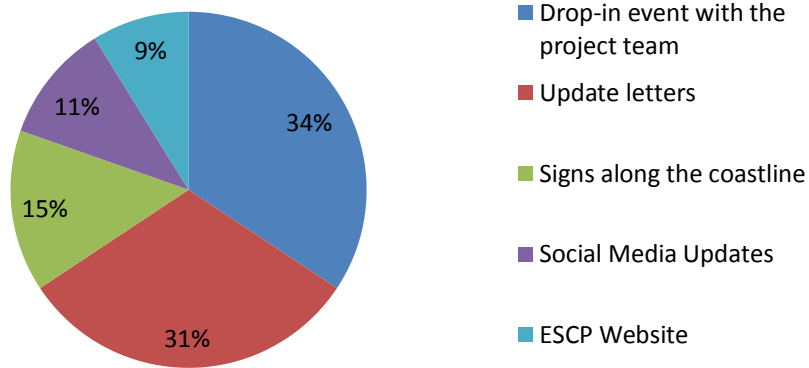
Qu 7 | How do you rate the standard of information that has been given today?



Qu 8 | How did you hear about the exhibition event?




Qu 9 | How would you best like to be kept informed about the progress of the schemes?



There was space following this question for those who wish to receive email updates to insert their email address. These email addresses have been stored in the stakeholder database.

Finally, there was space for further comments, a sample of which have been listed in table 1.

APPENDIX B – Exhibition Leaflet



GOSPORT
Borough Council

Coastal defence schemes

- The Environment Agency (EA) has approved funds for Gosport Borough Council (GBC) to develop outline designs for three separate flood defences, at Forton, Alverstoke and Seafield.
- GBC's coastal engineers, the Eastern Solent Coastal Partnership (ESCP) have prepared outline designs which are being presented to the residents.
- Subject to further funding approvals from the EA the schemes, once built, will reduce the present-day flood risk to 266 Gosport homes and businesses.

Important sites protected by these schemes

- Residential areas in Alverstoke, Seafield and Forton
- Main access roads to the town centre including Forton Road and Anglesey Road
- Critical infrastructure and urban utilities
- St Vincent community college and leisure facilities
- Environmentally designated Special Protection Areas (SPA)

We are pleased to invite you to our upcoming exhibitions where you will have the opportunity to find out more about the three proposed coastal flood defence schemes and what the outline designs look like. We'd very much value your feedback.


Keep updated

For more information on the scheme please visit:

www.escp.org.uk
info@escp.org.uk

[Facebook](#) /EasternSolentCoastalPartnership
 [Twitter](#) @EasternSolentCP
 [YouTube](#) EasternSolentCP
 [Instagram](#) EasternSolentCP

Protecting Gosport from flooding



We're proposing three schemes to protect hundreds of homes from flooding. You can learn more with this leaflet, then come to one of our drop-in events to get more information and have your say.

Drop-in exhibitions

Alverstoke - 17th July 1pm - 6:30pm
Scout Activities Centre, Clayhall Rd

Seafield - 20th July 1pm - 6:30pm
Gosport Discovery Centre, High St

Forton - 25th July 1pm - 6:30pm
St Vincent College, Mill Lane

Timeline of works

This is an estimated timeline of the work we will be doing prior to construction.

	2017												2018												2019											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Obtain E.A. Funds for Outline Design																																				
Review Defence Options																																				
Ground Investigation Works																																				
Identify Preferred Defence Options																																				
Outline Design																																				
Apply for Full E.A. Funding																																				
Funding Consideration by E.A.																																				
Subject to Environment Agency Approval of Funds																																				
Licences & Consents																																				
Detailed Design																																				
Appoint Contractor																																				
Possible Construction																																				



EASTERN SOLENT COASTAL PARTNERSHIP

Three proposed schemes...

Alverstoke

- 114 properties in Alverstoke are currently at risk from a 1 in 100 year flood event, expected to increase to 142 properties by the year 2060.
- The properties at risk stretch as far west as Jellicoe Avenue.
- The Alverstoke scheme will cover approx 120m of coastal frontage. The tidal flood risk area is located at the western end of Stoke Lake (between Little Anglesey Road and Clayhall Road).



Extent of a 1:100 year probability flood event



Seafield

- 80 properties in Seafield are at present-day risk from a 1 in 100 year flood event. This is expected to increase to 193 properties by the year 2060.
- The majority of tidal flood risk is to a low lying, densely populated area.
- The scheme will cover 770m of coastal frontage. The tidal flood risk area is located north of where Haslar Lake and Workhouse Lake meet between Old Road and Mariners Way in Gosport.



Extent of a 1:100 year probability flood event



Forton



© LDA Design. Image of Forton

- 72 properties in the Forton area are at present-day risk of flooding from a 1 in 100 year flood event. This is expected to increase to 232 properties by the year 2060.
- The majority of the frontage forms part of St Vincent College peninsula but also poses tidal flood risk to the low-lying residential area.
- The scheme will cover 400m of coastal frontage, protecting the tidal flood risk area at the western end of Forton Lake.

Extent of a 1:100 year probability flood event



Number of properties at risk from a 1:100 year probability tidal flood event in Alverstoke

YEAR	RESIDENTIAL	COMMERCIAL	TOTAL
2015	105	9	114
2060	132	10	142
2115	252	14	266

Number of properties at risk from a 1:100 year probability tidal flood event in Seafield

YEAR	RESIDENTIAL	COMMERCIAL	TOTAL
2015	80	0	80
2060	192	1	193
2115	471	18	489

Number of properties at risk from a 1:100 year probability tidal flood event in Forton

YEAR	RESIDENTIAL	COMMERCIAL	TOTAL
2015	72	0	72
2060	217	15	232
2115	549	49	598

APPENDIX C - Samples of exhibition posters

EXAMPLE OF EXHIBITION POSTERS

The Story So Far - Pt 1

Policy and Strategy

Shoreline Management Plan

A Shoreline Management Plan (SMP) is a high level policy document setting out a framework for future management of the coastline. The SMP makes recommendations on how the coastline should be managed over the next 100 years. It was adopted by Gosport Borough Council in 2014 and recommends a 'hold the line' policy to maintain or upgrade the level of protection provided by the coastal defences in this area.

The River Hamble to Fortchester Strategy

A strategy looks at how the river Hamble can be improved at a more local level and identifies areas where work may be required over the next 100 years.

The River Hamble to Portchester Strategy covers a 16km (10 miles) stretch of coastline between Fortnash on the east bank of the river Hamble through to highly varied and ranges from very urbanised residential and commercial developments to much more exposed open coast beach environments.

The Schemes

Year	2014-2015	2015-2016	2016-2017	2017-2018
Residential Properties	63	63	237	173
Commercial Properties	475	365	242	242
Total number of properties	538	428	479	415

Without flood defences, around 1,000 properties are at risk of flooding. With the proposed scheme, this number is reduced to 232.

The strategy recommended three priority schemes in three areas of Gosport: Forton, Seaford and Alverstoke. These are referred to as the 'three pillars' of the 'vulnerable area' in which there is significant risk of total flooding.

Environment and Heritage

Porthmouth Harbour and the surrounding land supports a large variety of wildlife and habitats, the majority of which are protected at an international level by law.

Environmental Designations

Internationally important populations of rare wildfowl and wading birds visit Porthmouth Harbour during the winter. The harbour contains areas of saltmarsh, mudflat and eelgrass habitats that support these bird species alongside fish and marine mammals (including common grey seals).

Ecological Surveys

We have completed specialist habitat surveys to confirm which species could be impacted by the works. These surveys will be conducted on with ecological experts including Natural England, The Environmental Agency, the RSPB, The Wildlife Trusts and Hampshire County Council's ecology team.

Heritage

Gosport has a long military history, evidence of this can be found throughout the town. Historic buildings will be protected by the old Royal Naval Dockyard. In 1823, the dockyard was converted into a training and establishment for the Royal Marines until 1923. Since after it was commissioned as a training and establishment for naval cadets and renamed St Vincent's College, later becoming a Sixth Form College in the early 1970s.

Alverstoke Conservation Area

Alverstoke Village has a series of individual examples of Victorian period houses, terraces and villas, all of which are within the flood risk area.

This map shows the environmental designations within Gosport in relation to the three schemes.

Opportunities

The development of these three flood defence schemes presents an opportunity for enhancing the local area. Subject to funding these could include more social spaces, seating, decorative greenery and landscaping.

Integrating flood defences

Seating

There could be opportunity to introduce new seating and even integrate seating and social spaces into the flood defences.

Re-imagining the incidental spaces

Introducing more green

Narrow footways and large planters restrict movement. Can we enhance unloved spaces by introducing more green and decorative plants?

Children's play

There could be an opportunity to improve the children's play area in Seaford.

Forton Flood Risk

72 properties in the Forton area are at present day risk of flooding from a 1 in 100 year flood event. This is expected to increase to 232 properties by the year 2050.

LDA Design image of Forton Landscape Plan

Year	RISKANTAL	COMMERCIAL	TOTAL
2015	72	0	72
2050	217	15	232

Properties and assets at risk from coastal flooding:

- The residential area of Forton
- St Vincent's Sixth Form College
- Areas of open space and recreation ground
- 4 listed and 2 local listed buildings
- Forton Lake - a sensitive site that is environmentally designated
- Critical infrastructure and extensive urban utilities and services

1. The A32/Forton Road
2. Electricity sub-stations
3. Surface water pumping station & sewers
4. Pressure gas mains
5. Telecomms and cable networks

The proposed scheme covers approximately 400m of coastal frontage, with the tidal flood route coming in from the western end of Forton Lake. Flooding poses most risk to the low lying urban residential area. By 2050 the flood extent will have increased to 750m, extending as far back as St Luke's Road.

Forton

What is the leading option being promoted?

The existing defences along the frontage are a mixture of concrete block walls, concrete bagwork and sheet piled quay walls. The existing defences provide only a 1 in 20 year standard of flood protection. Subsequently Forton is at very significant risk of flooding from coastal sea events.

The leading option being presented here is:

- Upgrade or encase the existing walls and construct a new set back wall
- The internal access road within St Vincent's College will need a set of flood gates which would be deployed in the event of a flood warning

This new set back wall will increase the overall height of the wall to provide a 1 in 100 year standard of protection.

Sensitive design of the coastal defences will be required to give users continued safe and enjoyable access and views of the coastline.

The new design will also be sensitive to the existing heritage features within St Vincent's College.

3D Visualisation

With seating

Sheet piled quay walls: Interlocking steel sheet piling driven into the ground to create a wall.

Bagwork: Concrete filled gabion baskets to form a wall.

LDA Design visual of Forton Coastline

Before
After Artist Impression
Without Seating

Without seating

APPENDIX D - Photographs of exhibition

PHOTOGRAPHS OF THE EXHIBITION EVENTS



Photo 1: Main exhibition set up



Photo 2: Visitors discussing the schemes with the project team at Alverstoke.



Photo 3: Visitors viewing and discussing the visualisation of the preferred option with ESCP staff at Seafeld



Photo 4: Visitors discussing the schemes at St Vincent College in Forton.