

# York Flood Alleviation Scheme

29 January 2018

## Update for March Executive Decision Session

At Decembers Executive Decision session we provided an overview of the status of work in each flood cell across the city, as well as a high level programme for the coming year. Here we want to give an update on progress at a cell level, and highlight key activities that have taken place since our last update. There are also a number of city wide activities which may be of interest.

## Summary of Recent City Wide Activities

### Ground Investigation Programme

We will commence ground investigation works at key locations across the city on 5 February. Initially this will comprise ground penetrating radar surveys. This is a non-intrusive method used to check for the presence of underground services. Following this, the intrusive surveys will begin. These will follow a number of methods dependent upon local issues. In residential areas our contractors will gain all necessary information using small hand dug pits, minimising disturbance and enabling rapid reinstatement. In less constrained areas, mobile drilling rigs will be used to dig boreholes for more complete data. All affected landowners have already been contacted and given formal notice of the works. We anticipate the investigations will be complete during April for the Ouse, then we will begin works on the Foss catchment.

### Climate Change and Defence Heights

We have been undertaking a significant amount of modelling to determine the optimum defence height across the city, accounting for the effects of climate change. We are taking an adaptive approach to climate change, where proposed defences will be designed to account for the impacts of climate change up to 2039. Defences will be designed in such a way that facilitates future raising if necessary. The result of this modelling has confirmed that new defences should be constructed to the modelled 1 in 100 year level, with an increase of 2.4% to account for further climate change up to 2039.

### Wellington Row Community Hub

At the end of 2017, we opened our new community drop in centre on Wellington Row. The Hub provides residents with a central location where they can come to ask questions about our work, view plans, and provide feedback. The opening of the Hub has been publicised through local media and online. We have already had over 100 visitors and we anticipate an increase in visitor numbers as further plans for flood defences come forward.

## Progress of Each Flood Cell

In our last update, we provided a brief summary of the current position of each flood cell within York, and the reasoning for inclusion or exclusion from more detailed assessment. Here we want to give an update on each of the flood cells being taken forward as part of York FAS.

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Flood Cell	Detail	Current/Next Activity
B16 - New Walk	We announced a proposed option to reduce flood risk across the area in December 2017 at a public event in Fishergate attended by over 70 residents. We have committed to a further meeting with the Local Flood Group to discuss this further	<ul style="list-style-type: none"> <li>• Planning a meeting with the local flood group in early February.</li> <li>• Organising surveys of properties for potential property resilience measures</li> </ul>
B8 - Clementhorpe	A proposed option for the area was released in late November 2017, at an event at Clementhorpe Community Centre. Over 70 local residents attended this event. We have committed to a further event in March to show more detailed designs.	<ul style="list-style-type: none"> <li>• Public engagement event in March to showcase detailed designs.</li> <li>• Ground investigation work starting in March</li> </ul>
B4 - Scarborough to Ouse Bridge (Right Bank)	Outline options for this area have been produced and are currently on show at the Hub. There has been relatively little feedback on the proposals so far. A full post engagement report will be produced in early February	<ul style="list-style-type: none"> <li>• Publication of post engagement report in February</li> <li>• Applying to CYC with an EIA screening request for planning in late January</li> </ul>
F9 - South Beck	Though our modelling only indicates that there are a small number of properties at risk from flooding we will be investigating the risk in more detail and from this assessing the potential for flood defence options for this area.	<ul style="list-style-type: none"> <li>• Currently assessing the feasibility of storage options on the Foss which will feed into future defence options for the area</li> <li>• Likely to have options information for public release in July</li> </ul>
C3 - Naburn	We have been working closely with Naburn Flood Group for a number of years to tackle the various causes of flooding to the village. A detailed modelling study commissioned prior to the 2015 floods has provided clarity on the scale	<ul style="list-style-type: none"> <li>• Ground investigations taking place during March</li> <li>• Proposed options for public consultation in July</li> </ul>

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	of risk and the interventions needed to reduce this. We are now looking to undertake ground investigations to confirm the viability of works before consulting residents on the preferred option.	
C2 - Acaster Malbis	Due to flood flow routes in the area, developing a formal flood defence scheme would be extremely difficult. We will offer property level resilience options for affected properties.	<ul style="list-style-type: none"> <li>Proposed options for public consultation in July</li> </ul>
B9 - Fulford	We are working closely with CYC to develop an effective solution to the issues in Fulford.	<ul style="list-style-type: none"> <li>Proposed options for public consultation in July</li> </ul>
C1 - Bishopthorpe	Records from recent flood events and our modelling shows the risk from flooding is greatest along a stretch of Bishopthorpe Road and Main Street/Chantry Lane. We will be investigating potential options in these areas and consulting with local residents.	<ul style="list-style-type: none"> <li>Proposed options for public consultation in July</li> </ul>
F4 - Tang Hall Beck	Our modelling and experience from the 2015 floods shows that a significant flood flow into the Foss comes from both Tang Hall and Osbaldwick Becks. We are investigating opportunities to develop storage areas upstream of the city to reduce flood flows, as well as de-culverting within the city.	<ul style="list-style-type: none"> <li>Currently assessing the feasibility of storage options on the Foss which will feed into future defence options for the area</li> <li>Likely to have options information for public release in July</li> </ul>
F5 - Osbaldwick Beck	Our modelling and experience from the 2015 floods shows that a significant flood flow into the Foss comes from both Tang Hall and Osbaldwick Becks. We are investigating opportunities to develop storage areas upstream of the city to reduce flood flows, as well as de-culverting within the city.	<ul style="list-style-type: none"> <li>Currently assessing the feasibility of storage options on the Foss which will feed into future defence options for the area</li> <li>Likely to have options information for public release in July</li> </ul>

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F8 - Groves to Haley's Terrace	Following the upgrade to the Foss Barrier we are investigating additional flood defence options for this area, including embankments and walls. We are also investigating opportunities to develop storage areas on the Foss upstream of the city to reduce flood flows.	<ul style="list-style-type: none"> <li>• Currently assessing the feasibility of storage options on the Foss which will feed into future defence options for the area</li> <li>• Likely to have options information for public release in July</li> </ul>
F10 - Haley's Terrace to Link Road	Our modelling shows there is a risk of flooding to a number of properties along the stretch of the Foss in this area. We will be investigating options for this area as well as investigating opportunities to develop storage areas on the Foss upstream of the city to reduce flood flows.	<ul style="list-style-type: none"> <li>• Currently assessing the feasibility of storage options on the Foss which will feed into future defence options for the area</li> <li>• Likely to have options information for public release in July</li> </ul>
F11 - Link Road to Ring Road	Though our modelling only indicates that there are a small number of properties at risk from flooding we will be investigating the risk in more detail and from this assessing the potential for flood defence options for this area.	<ul style="list-style-type: none"> <li>• Currently assessing the feasibility of storage options on the Foss which will feed into future defence options for the area</li> <li>• Likely to have options information for public release in July</li> </ul>
F12 - Westfield Beck	Our records shows there is a risk of flooding to properties in this area. We will be investigating this risk in more detail and looking at potential flood defence options to mitigate the impact of the risk flooding. We will be engaging with local residents before any proposals are taken forward.	<ul style="list-style-type: none"> <li>• Currently assessing the feasibility of storage options on the Foss which will feed into future defence options for the area</li> <li>• Likely to have options information for public release in July</li> </ul>
B11 - Copping Farm to Scarborough Bridge (Left Bank)	This flood cell covers a wide area with a range of different issues. There are a number of existing defences which will need to be raised in order to continue protecting homes and businesses into the future.	<ul style="list-style-type: none"> <li>• Currently arranging a meeting with residents of Almery Terrace to discuss options to raise their existing flood walls</li> <li>• Will begin public engagement on options in late March</li> </ul>

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B12 - Scarborough Bridge to Lendal Bridge (Left Bank)	A significant area of this flood cell falls within the historic city centre and therefore any scheme needs to have the support of heritage bodies. We are keen to ensure this support before shortlisting options.	<ul style="list-style-type: none"> <li>• Discussions with heritage bodies and York Museums Trust ongoing</li> <li>• Will begin public engagement on options in March/April</li> </ul>
B15 - King's Staith to Skeldergate Bridge	As was highlighted in the publication of the 5 Year Plan, providing protection at King's Staith to the same level as elsewhere in the city would not be acceptable. We are assessing the optimum size of any defence in this location to provide additional protection without negatively impacting the riverside amenity and neighbouring businesses. Due to government spending rules around cost benefit, this scheme may require additional funding support.	<ul style="list-style-type: none"> <li>• Investigation into potential underground flow routes linking to historic water defences is ongoing</li> <li>• Further information should be available in March/April</li> </ul>
B7 - Queen's Staith and Skeldergate	There is potential to reduce flooding by installing floodwalls/gates between existing buildings on Skeldergate. This is dependent upon structural integrity and ground conditions which are currently under assessment. Until the outcome of this we cannot provide more detailed options.	<ul style="list-style-type: none"> <li>• We are currently investigating underground seepage issues and the feasibility of locations for new defences between existing buildings</li> <li>• Timescales for the production of proposals for the area are dependent on the outcome of this investigation but it's likely to be April</li> </ul>
B10 - Clifton & Rawcliffe	Central to this area are the upgrade to the embankment at Clifton Ings, and the formalisation of pumping arrangements for Blue Beck. These are both EA assets and we are committed to maintaining their effectiveness.	<ul style="list-style-type: none"> <li>• Discussion with key stakeholders is ongoing in advance of wider public consultation on proposals in the spring</li> </ul>

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In our last update, we stated that work in the following flood cells would not be taken forward as part of York FAS:

**A5 - Upper & Nether Poppleton**

**B1 - Millfield Industrial Estate**

**B3 - Clifton Bridge to Scarborough Bridge & Hob Moor**

**B13 - Lendal Bridge to Ouse Bridge**

**B17 - Nun Ings**

**F1 - Cliffords Tower**

**F2 - Hungate**

**F3 - Foss Islands**

**G6 - Foss Bank**

**F7 - Layerthorpe**

We will be providing updates regarding these flood cells by exception going forward.

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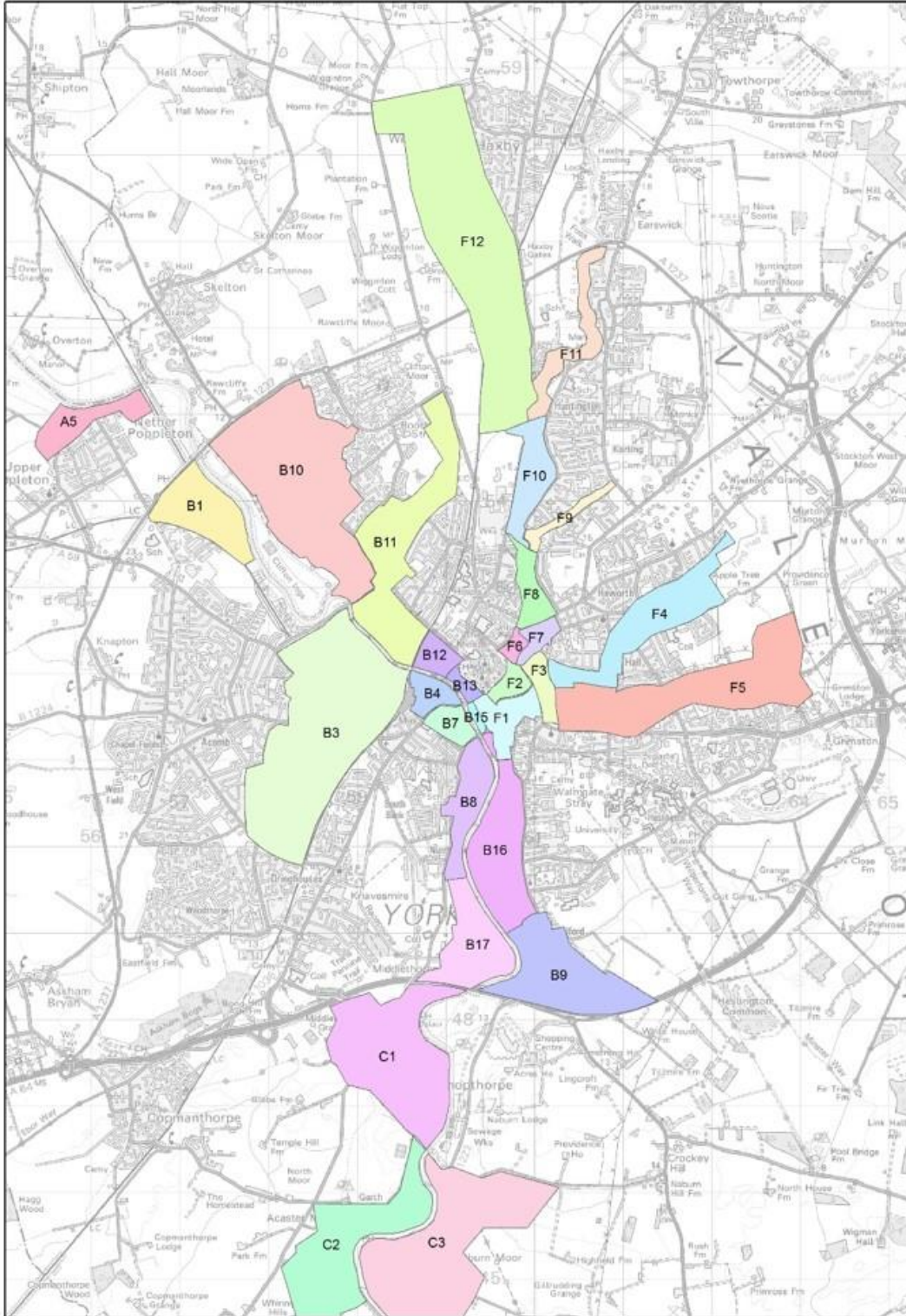


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# York Flood Cells Map



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