

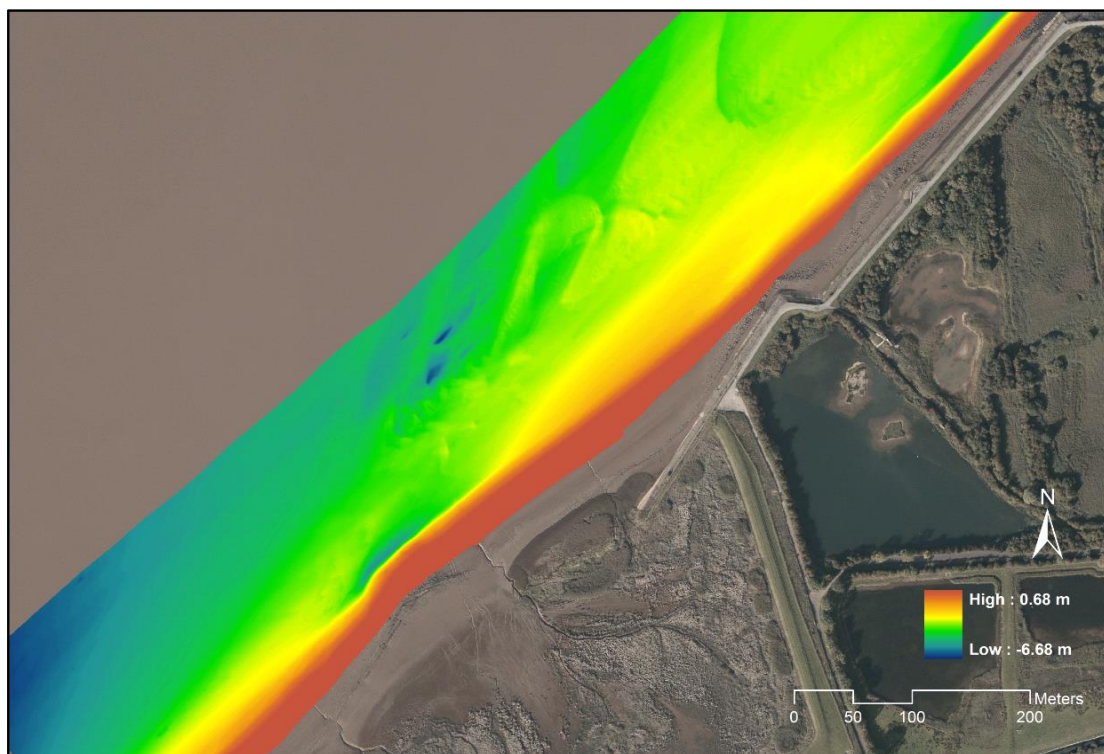
Humber – keeping you informed

July 2016

This newsletter provides an update on work taking place and/or planned to help reduce the risk of flooding to people and properties around the Humber estuary.

Surveying a big success!

Our Geomatics Team has now completed surveying the bed of the estuary from the Humber Bridge up to Boothferry Bridge on the Ouse and Keadby on the Trent. The survey was very successful and we learnt a great deal. The survey has produced quality data to help us better understand how the estuary is changing. We also learnt more about which survey techniques work best when surveying such a dynamic estuary like the Humber. This data will help inform the comprehensive review of the Humber Flood Risk Management Strategy (see below), supporting decisions on how we best manage the risk of flooding and erosion around the estuary. This data collection is part of our Humber Monitoring Strategy, which sets out a programme of works to provide us with information. We plan to do more surveying later in the year including aerial photography and LiDAR (Light Detection And Ranging) which maps land elevation. For more information on our work surveying the estuary, please contact our Humber team Humber.Strategy@environment-agency.gov.uk.



Bathymetric survey data at Chowder Ness

Humber Flood Risk Management Strategy

Alongside our partners, particularly the Humber local authorities, we are undertaking a comprehensive review of the Humber Strategy. This will involve us reviewing our long term plans for how we best manage the risk of tidal flooding and erosion around the estuary. The review will inform our new programme of scheme development work that will be designed to commence directly after the conclusion of the current 6

year programme in 2021. We plan to have consultants in place to begin the work in Autumn. We then expect the review to take around 2 years to complete.

Whilst this is being undertaken we will continue to deliver our 6 year (2015-2021) programme of work, investing over £86million of government funding in reducing the risk of flooding to over 50,000 properties around the estuary.

North bank

Hull Frontages: We are progressing on schedule to have all necessary approvals in place by summer 2017 to enable works to start early 2018. The expectation is that construction works will take approx 3 years to complete. The scheme is looking to deliver a programme of improvement works along the city frontage, in collaboration with landowners. We have started to talk to those with an interest in improving these defences to understand what the best solutions might be and securing the necessary funding to enable works to start.

Hull River Defences Package: We are planning on improving the river defences through the city of Hull, so that they continue to provide long term protection from the risk of flooding from the River Hull. We are continuing to work in partnership with Hull City Council with the aim of providing a scheme which will contribute towards growth and regeneration on the river front in the city. The business case for the scheme has now been approved so we expect to start design and construction work later this year.

Welwick to Skeffling Managed Realignment Scheme – community event:

We held a community drop-in in July to speak to local people about a habitat creation project. The Welwick to Skeffling Management Realignment Scheme will create important habitat to replace ongoing losses and provides an opportunity to reduce flood risk to land and communities. The event was successful with local people attending to voice their concerns, speak to experts and understand the scheme better.



Skeffling community event: local people talking to Environment Agency staff

South bank

South Ferriby & Barton: We are about to appoint consultants to continue in the development of both Winteringham Ings & South Ferriby and Barton to New Holland schemes.

We have completed ground investigations along the existing flood embankments at South Ferriby, and also between Blacktoft and Yokefleet, in the past few weeks. These are routine site investigations, whereby we

drill boreholes in the flood embankment to take soil samples to understand the ground conditions. The locations of the boreholes have been chosen by using the results from geophysical survey work last summer. Using these results has allowed us to pinpoint what parts of the insides of flood banks we are particularly interested to know more about. Please see picture below.



Borehole drilling on South Ferriby's flood embankments

Winterton Beck: A survey highlighted that there was elevated silt levels in Winterton Beck. In April we successfully undertook desilting between the flushing gate and Winterton Beck outfall, reducing silt levels to the cill of the outfall structure. Please see pictures below.

Further desilting is required downstream of the outfall to allow the continued operation of the pointing doors and to allow discharge of water through the system into Winterringham Haven. We are progressing with the approval for this work. We are also planning on carrying out regular flushing of Winterton Beck and surveying of the silt levels. Together these will advise us of the optimum flushing regime to reduce silt build up.



Winterton Beck: Left photo shows trench dug ready for the silt/right photo shows the trench full with silt

Keadby terminal outfall scheme: We have started a package of works to ensure the Keadby terminal outfall [pumping station and gravity sluice] continues to operate effectively over the next 5 years. This includes the replacement of 2 pump engines and refurbishment of other critical components. The work is progressing very well, having started in March and will be completed over a period of 9 months.

The Keadby terminal outfall plays a key role in managing the drainage of the River Torne and associated watercourses. This package of works is part of a comprehensive solution to sustain the operational capability of the terminal assisted outfall into the future.



Keadby pumping station: pump engine being removed prior to its replacement

Isle of Axholme: We are continuing to work closely with the Doncaster East Internal Drainage Board, Isle of Axholme Water Level Management Board, North Lincolnshire Council and Doncaster Metropolitan Borough Council regarding the future management of the Isle of Axholme. There are currently 17 schemes within the Isle due for completion by 31 March 2021, of which one has already been completed. Collectively the work will help to manage flood risk for over 20,000 properties, 36 kilometres (22.4 miles) of critical infrastructure and over 46,000 hectares of agricultural land. A multi organisation governance structure has now been put in place to drive this important piece of work forward

Burringham: The site has been left undisturbed for several months allowing natural ground compaction to continue. We continue to work with our contractors to carry out further inspections. Any further minor remedial works to control any remaining light seepage will then be carried in advance of the winter conditions.

Are you prepared for future floods?

Although flood defences reduce the likelihood of flooding, the risk can never be removed entirely. Flooding can happen at any time and we advise people to take simple practical steps to help reduce the impact of flooding to their homes or business.

- Check your flood risk by visiting www.gov.uk/check-if-youre-at-risk-of-flooding or calling Floodline on 0345 988 1188
- If you are at risk, sign-up to our free flood warning service

- To make a flood plan for your home or business visit www.gov.uk/prepare-for-a-flood/make-a-flood-plan

Contact

If you have any questions, please contact our national customer contact team on 03708 506 506 (landlines are charged the same as a local geographic call but mobiles may vary) or email enquiries@environment-agency.gov.uk. Alternatively, visit www.gov.uk/flood or call Floodline on 0845 9881188 or 0345 9881188. Follow us on Twitter **@EnvAgencyAnglia**, **@EnvAgencyYNE** or **@LincsOpsEA**

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