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County Offices Newland Lincoln LN1 1YL

11 February 2022

Flood and Water Management Scrutiny Committee

A meeting of the Flood and Water Management Scrutiny Committee will be held on **Monday**, **21 February 2022 at 10.00 am in the Council Chamber, County Offices, Newland, Lincoln LN1 1YL** for the transaction of the business set out on the attached Agenda.

Yours sincerely

Bames

Debbie Barnes OBE Chief Executive

Membership of the Flood and Water Management Scrutiny Committee (11 Members of the Council and 7 Other Voting Members)

Councillors P A Skinner (Chairman), R P H Reid (Vice-Chairman), P Ashleigh-Morris, T R Ashton, A J Baxter, M Brookes, S Bunney, K J Clarke, A G Hagues, H Spratt and G J Taylor

Other Voting Members

District Councillors R Austin BEM (Boston Borough Council), P Vaughan (City of Lincoln Council), Mrs F M Martin MBE (East Lindsey District Council), Mrs L Hagues (North Kesteven District Council), M D Seymour (South Holland District Council), H Crawford (South Kesteven District Council) and I G Fleetwood (West Lindsey District Council)

FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE AGENDA MONDAY, 21 FEBRUARY 2022

ltem	Title	Pages
1	Apologies for Absence/Replacement Members	
2	Declarations of Members' Interests	
3	Minutes of the previous meeting held on 29 November 2021	5 - 14
4	Announcements by the Chairman, Executive Councillors and Lead Officers	
5	Development Fund - Drainage Investigations & Flood Repairs - Progress on Programme Delivery (To receive a report by Matthew Harrison, Flood Risk Manager, which enables the Committee to review and comment on the progress with the Development Fund for Drainage Investigations and Flood Repairs)	
6	Lincolnshire Homeowner Property Flood Resilience Assistance Scheme Update (To receive a report by Matthew Harrison, Flood Risk Manager, which enables the Committee to comment on the development and promotion of the Council's pilot approach to enhancing the resilience of properties to flooding throughout Lincolnshire in locations where traditional community-based initiatives would not be economically feasible through grant source measures)	
7	Lincolnshire Riparian Project Update (To receive a report by Ryan Davies, Assistant Flood Risk Officer, which enables the Committee to comment on the development of the Council's approach to the network of riparian watercourses across Lincolnshire)	
8	Flood Risk Team Update (including Section 19 investigations) (To receive a report by Matthew Harrison, Flood Risk Manager, which enables the Committee to comment on the recent work of the Flood Risk Team including the status of all current flood investigations being undertaken in the County)	
9	Local Flood Incident Management - Draft Memorandum of Understanding between LCC and District Councils (To receive a report by David Hickman, Head of Environment, which enables the Committee to comment on the draft Memorandum of Understanding between local authorities for localised emergency events)	

10 Environment Agency Update

(To receive a report by Morgan Wray, Area Flood and Coastal Risk Manager, which updates the Committee on Environment Agency activities in Lincolnshire including progress on key capital schemes)

11 Anglian Water Update

Verbal

(To receive a verbal update from Jonathan Glerum on Anglian Water's Report activities in Lincolnshire)

12 Flood and Water Management Scrutiny Committee Work Programme ⁸⁵⁻⁸⁸ (To receive a report by Kiara Chatziioannou, Scrutiny Officer, which enables the Committee to comment on the content of its work programme for the coming year)

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	ormation about any of the following please contact the er responsible for servicing this meeting	
 Business of the meeting Any special arrangements Copies of reports 		
Contact details set out above.		
Please note: This meeting will be broadcast live on the internet and access can be sought by accessing <u>Agenda for Flood and Water Management Scrutiny Committee on</u> <u>Monday, 21st February, 2022, 10.00 am (moderngov.co.uk)</u>		
All papers for council meetings are available on: <u>https://www.lincolnshire.gov.uk/council-business/search-committee-records</u>		

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Agenda Item 3



FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE 29 NOVEMBER 2021

PRESENT: COUNCILLOR R P H REID (VICE-CHAIRMAN)

Councillors P Ashleigh-Morris, T R Ashton, A J Baxter, M Brookes, S Bunney, K J Clarke, A G Hagues and H Spratt

District Councillors P Vaughan (City of Lincoln Council), Mrs F M Martin MBE (East Lindsey District Council), Mrs L Hagues (North Kesteven District Council), H Crawford (South Kesteven District Council) and I G Fleetwood (West Lindsey District Council)

Councillors R Austin BEM and P A Skinner observed the meeting via Microsoft Teams

Councillor T J G Dyer, attended the meeting as an observer

Officers in attendance:-

Paul Brookes (Flood Risk Manager), Kiara Chatziioannou (Scrutiny Officer), Robert Close (Democratic Services Officer), Matthew Harrison (Senior Commissioning Officer - Flood Risk) and David Hickman (Head of Environment)

Officers in attendance via Microsoft Teams:-

Chris Miller (Deputy Head of Environment)

External Agencies in attendance via Microsoft Teams:-

Jonathan Glerum (Anglian Water), Matthew Moore (Anglian Water) and Morgan Ray (Environment Agency)

12 APOLOGIES FOR ABSENCE/REPLACEMENT MEMBERS

Apologies for absence were received from Councillor P Skinner and Councillor R Austin.

Apologies for absence were also received from Councillor C Davie – Executive Councillor for Economic Development, Environment and Planning.

13 DECLARATIONS OF MEMBERS' INTERESTS

No declarations of Members' interest were made at this stage of the proceedings.

14 MINUTES OF THE PREVIOUS MEETING HELD ON 20 SEPTEMBER 2021

RESOLVED

That the minutes of the Flood and Water Management Scrutiny Committee meeting held on 20 September 2021 be agreed and signed by the Chairman as a correct record.

15 <u>ANNOUNCEMENTS BY THE CHAIRMAN, EXECUTIVE COUNCILLORS AND LEAD</u> OFFICERS

The Chairman informed the Committee of the passing of Councillor B Adams, former Chairman of the Flood and Water Management Scrutiny Committee. The Committee held a minute's silence in memory of Councillor Adams.

Councillor Dyer, Executive Support Councillor for Economic Development, Environment and Planning, advised the Committee that, since the 20 September 2021 meeting, he had the opportunity to visit Wragby Fire Station to observe the investment made for two additional flood pumps bringing Lincolnshire's fleet to four.

Furthermore, Councillor Dyer noted that the Environment Act. 2021 had now passed into law and would bring a number of impacts to the fields of environmental and water management, some affecting local planning policy as the requirement for biodiversity net gain aligned with emerging policy areas such as natural flood management and the ongoing implementation of sustainable drainage systems. Moreover, the creation of nature recovery networks would also mean that flood risk and drainage management work would need to provide increasing benefits if the partnership of local authorities were to make best use of opportunities from these policy developments. One area, currently in development, was the Greater Lincolnshire Groundwater project, which offered a significant opportunity to explore new ways to manage difficult flood risk issues involving a much wider range of techniques to these that would have been traditionally available. Particular consideration would be given to flood risk management, environmental improvement and water quality improvement. He observed the tone of Government policy was changing from an approach seeking to manage flood risk to a focus on the overall reduction in flood risk and improvement in communities and local economies.

16 <u>FLOOD & COASTAL INNOVATION PROGRAMME - THE GREATER LINCOLNSHIRE</u> <u>GROUNDWATER PROJECT</u>

Consideration was given to a report, which advised the Committee on progress with the Greater Lincolnshire Groundwater project and set out the next steps in developing an Outline Business Case. The Chairman invited Matthew Harrison, Senior Commissioning Officer – Flood Risk, to present the report to the Committee.

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The Committee were advised that £200 million was awarded by Government in 2020 for the Flood and Coastal Innovation Programme, distributed to 25 local areas between 1 April 2021 and 31 March 2027. Lincolnshire County Council, as lead flood authority, was leading on the development of a collaborative approach, with North Lincolnshire Council, North East Lincolnshire Council, North Kesteven and East Lindsey District Councils, Internal Drainage Boards, the Environment Agency (EA) and Water Companies. Within the Partnership's Expression of Interest (EOI) bid, it was hoped to identify opportunities to manage groundwater in a sustainable way, thus managing flood risk and the environment, to improve Greater Lincolnshire's resilience to flooding, building on community resilience, communicating learning regionally and nationally and improving the capability to improve the emergency response to ground water flooding. Currently, the Partnership were producing an Outline Business Case to work with consultants and develop detailed modelling on Lincolnshire limestone and chalk models.

Members were provided with the opportunity to ask questions to the officers present in relation to the information contained within the report and some of the points raised during discussion included the following:

Observing that, within the report, it was indicated that £150 million of the total £200 million allocation would be given to local areas, Members asked how the remaining £50 million was used. The Head of Environment advised that the remaining £50 million was allocated into large scale strategic schemes, including the Humber Strategy.

RESOLVED

That the Flood and Coastal Innovation Programme be noted.

17 FIRE AND RESCUE FLOOD PUMP CAPABILITY

Consideration was given to a presentation, which offered the Committee an overview of the trailer mounted flood pumps which had been secured through Lead Local Flood Authority (LLFA) funding. The Chairman invited Mark Baxter, Chief Fire Officer, to present the report to the Committee.

The Committee were advised that the Council planned for major flood emergencies through the Emergency Planning and Business Continuity unit. The partnership of the LLFA, EA and the Fire and Rescue Service entered into an agreement in 2017 to procure two trailer mounted pumps. The benefit of this style of pump was that enabled deployment by only four officers and could be operated by two while still offering a high level of pumping capability. Furthermore, the All-Wheel Drive (AWD) Isuzu trucks offered 3.5 tonne towing capacity and could be used for a variety of other tasks. The pumps were located at Alford, Gainsborough, Holbeach and Wragby in line with historic and predicted flood risk areas. Since implementation, the pumps had been utilised in a number of incidents including

Greetwell, Grantham and Wainfleet in addition to smaller incidents and substituting other pieces of equipment.

Members were provided with the opportunity to ask questions to the officers present in relation to the information contained within the report and some of the points raised during discussion included the following:

- Members emphasized their appreciation of the utility presented with these pumps, particularly observing some significant incidences of flooding in recent years.
- When considering the rural locations, the pumps would likely be deployed to, Members asked what security was being implemented to ensure the protection of these valuable pieces of equipment. The Chief Fire Officer noted that the pumps would not be left in situate without two fire officers present at any times, in the interest of both security and maintenance.
- Referencing the locations in which the pumps were initially situated, Members raised apprehensions that areas to the south of Lincolnshire, may see delayed response times. An indication was made by Members that they would be supportive of a further two pumps being procured to enable a greater coverage of Lincolnshire. The Chief Fire Officer agreed that a further increase in pumps would offer greater assurance to those in the county during periods of high flood risk. Furthermore, he reminded Members that the Fire and Rescue Service possessed other flood management equipment in addition to the trailer mounted flood pumps.
- Members sought further detail of how the unwanted water was dealt with after it had been pumped from the affected site. The Chief Fire Officer explained that a dedicated hose and ancillary equipment allowed for water to be pumped into local flooding pipes thus being moved a further away enough to be considered safe. Sufficient pressure allowed water to be moved several kilometers if required.

RESOLVED

That the Fire and Rescue Flood Pump Capability be noted.

18 CONSULTATION ON THE SECOND CYCLE FLOOD RISK MANAGEMENT PLANS

Consideration was given to a report, providing an overview of the plans and consultation exercise in advance of a formal response being provided by the Council. The Chairman invited the Senior Commissioning Officer – Flood Risk to present the report to the Committee.

The Committee were advised that the EA had produced draft Flood Risk Management Plans (FRMPs) for England to cover the period from 2021 – 2027. The second cycle was now part of a three-month public consultation, which was open and would run from 22 October 2021 to 21 January 2022. FRMPs were strategic plans that set out how to manage flood risk in nationally identified Flood Risk Areas (FRAs) for the period 2021-2027 and were statutorily required by the Flood Risk Regulations 2009. Lincolnshire fell into two River basin areas, the

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Humber and Anglian. A number of new features for FRMPs included a strategic focus on areas where the risk of flooding had been identified as nationally significant, aim to be more accessible and easier to use for our stakeholders and the public with greater use of online mapping, measures to display an online map-based tool called flood plan explorer and support from the National Flood and Coastal Erosion Risk Management Strategy for England. The Council, in its role as LLFA, had no designated FRAs within its area. However, the EA had designated FRAs in their role as RMA in both the Humber and Anglian River Basin District.

Members were provided with the opportunity to ask questions to the officers present in relation to the information contained within the report and offer any comments and guidance to contribute to the preparation for the submission deadline of 21 January 2022, some of the points raised during discussion included the following:

• Members sought further information about the areas of responsibility that the EA cover. Morgan Wray, EA, advised the Committee that the Environment Agency did have responsibilities for flood risk, main river risk management and reservoir risk.

RESOLVED

That the comments from the Committee be considered when compiling the formal response from the Council to the Flood Risk Management Plans consultation.

19 UPDATE ON BLACK SLUICE PUMPING STATION PROJECT, BOSTON

Consideration was given to a report, providing an update on progress to make the decommissioned Black Sluice Pumping Station site in Boston safe, and the opportunities for local partners to re-purpose the site as a local amenity. The Chairman invited Morgan Wray, EA, to present the report to the Committee.

The Committee were advised that EA led a study called the 'Black Sluice Catchment Works' in 2012. This study included detailed modelling and economic assessment on a range of scenarios for the whole catchment. Evidence indicated that, whilst the gravity sluice and dual-purpose lock played an important role in managing flood risk to people and property, the pumps did not. Following the study and formal consultation, the EA and Black Sluice Internal Drainage Board (BSIDB) considered either a transfer of the BSPS to the IDB or decommission of the asset. In March 2018 it was confirmed by BSIDB that the cost to refurbish the pumps was not viable to justify a business case, it was subsequently announced that the pumps would be decommissioned. Whilst the pumps had been decommissioned, the EA remained owners of the building. The strategically important gravity sluice and dual-purpose lock at the Black Sluice Complex would continue to be maintained and a £1 million detailed asset inspection and refurbishment of the navigation lock was carried out in 2020 to ensure it remained operational. The EA were now in the second phase of scoping, designing a decommission model and identifying costings to make the site watertight. The heritage value of the site was widely recognised and a would be

fundamental to a proposal for a novel eating experience by transforming the building into a bistro while retaining the wow-factor and magnitude of the pumps.

Members were provided with the opportunity to ask questions to the officers present in relation to the information contained within the report and some of the points raised during discussion included the following:

- Members appreciated the significant heritage value of the building and stressed their endorsement of a scheme that would avoid this building being demolished.
- Several flood infrastructure projects included public information centers, Members asked if this scheme would offer something similar. Suggestions were made that models and information of the nearby flood barrier were also included. Morgan Wray explained that, while no legal duty bound the EA to do so, they endeavored to publicise all capital projects. If the project was developed as a visitor attraction, the EA would explore further materials to include promoting flood risk information and community resilience. While the EA could provide a monetary contribution to ensure sustainability, it was stressed that this would be taken from maintenance budgets.
- Members were encouraged that the EA were working closely with the Black Sluice Internal Drainage Board (BSIDB) to manage flood risk in Boston.
- If the site was to be converted to hospitality use, Members asked if the issues of land availability and car parking had been considered given the potentially high number of visitors. Emphasis was made that mere sustainable transport solutions would not be sufficient to make this operation viable. Morgan Wray noted that the issue of repurposing and sustainable transport would be considered by BSIDB. Initial investigations had identified areas for disabled parking and discussions would be undertaken with neighboring sites.
- If any engines had to be removed as part of the repurposing, Members asked that other FRMAs were given preferential treatment upon disposal consider. Morgan Wray agreed that engines of this age would be highly sought after by other FRMAs and would be duly considered in the event of removal.

RESOLVED

- 1. That the update on the Black Sluice Pumping Station Project be received.
- 2. That a further progress update be brought to the Flood and Water Management Scrutiny Committee.

20 INVESTIGATIONS UNDERTAKEN UNDER SECTION 19 OF THE FLOOD AND WATER MANAGEMENT ACT 2010

Consideration was given to a report, providing the status of all current flood investigations being undertaken in the County. The Chairman invited Paul Brookes, Flood Risk Manager, to present the report to the Committee.

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The Committee were advised that it was a duty under Section 19, Flood & Water Management Act 2010 for the LLFA to carry out investigations to identify risk in the County and publish the results. The Council also made recommendations to manage future flood risk, to be delivered by individual RMAs or in partnership. The Committee were encouraged to view the interactive mapping available on the Lincolnshire County Council website.

During consideration of the report, the Committee raised some of the following issues:

- Noting that the last report they had received identified 25 properties being affected with 22 investigations commissioned, Members asked if any further activity had been carried out. The Flood Risk Manager advised that the further 13 investigations were undertaken in the following quarter to the last report.
- Members asked if the multi-agency scheme was still expected to commence in January. The Senior Commissioning Officer Flood Risk advised that the multi-agency scheme was one of the largest being delivered under the flood risk development fund and had grown since its inception. However, it was still expected to be delivered in early 2022.
- The Committee thanked the Flood Risk Manager and his team for the work they'd undertaken particularly surrounding near miss statistics.

RESOLVED

That the investigations undertaken in the County under Section 19 of the Flood and Water Management Act 2010 be noted.

21 ENVIRONMENT AGENCY UPDATE

The Committee received an update from Morgan Wray, Environment Agency, which provided an update on recent activities.

Issues covered in the presentation included:

- An overview of a £1.5 million scheme completed in Torksey to protect 457 properties from flooding from the River Trent.
- Commencement on Salt Fleet to Gibraltar Point management preparations was due imminently, this would protect 20,000 house, 30,000 static caravans and 30,000 hectares of agricultural land.
- The Wainfleet flood action plan continued based on flow management, flood water storage, flood warning model improvements and raised flood defenses.
- The Boston Barrier was operated for the first time on 7 November 2021 as a result of a forecast for high tides and tidal surges. At its peak, there was a 3.7-meter difference from downstream and upstream sides.
- Gates were planned to be installed at the wet dock entrance in Boston and were expected to protect a further 424 properties.

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- The lower Wootton flood resilience project was soon to be commenced and would consider assets and flood defenses in Boston.
- A project in Boston to look at tidal defenses between the barrier and the black sluice gate valued at £4.7 million and to protect 259 homes was soon to be commenced.

During consideration of the presentation, the Committee raised the following comments:

- Members asked if the additional security was going to provide insurance companies with sufficient evidence when they quoted cover within Boston. Morgan Wray explained that, while the EA did not have any direct oversight on insurance premiums, he noted that the Boston flood map had changed because of the barrier which insurance companies would take into account.
- Referencing the boaters, Members asked what work was being done to tackle the increased weed on the rivers. While Morgan Wray acknowledged the increased weed growth seen recently, he advised that it did not represent a significant contribution to flood risk. The EA would, however, work closely with the Canals and River Trust to look at ways of managing it.

RESOLVED

That the presentation be received and noted.

22 ANGLIAN WATER UPDATE

The Chairman invited Jonathan Glerum, Anglian Water, to present the update to the Committee.

The Committee was advised of the project; undertaken with the National Flood Forum to work with communities to increase flood resilience and create flood action groups. These had been created in Tetney, Louth, Ingoldmells, Scopwick and Long Bennington.

Members noted a number of case studies demonstrating the work that Anglian Water were undertaken since their last contribution to the Committee, including the addition of flow monitor and identifying surface water management possibilities in Langworth and a Water Industry National Environment Programme scheme, mitigation works to divert main sewer flow, and disconnection of downpipes connected to the foul network in Metheringham.

During consideration of the presentation, the Committee raised some of the following comments:

• Members asked if they could have an update on the progress of the South Lincolnshire Reservoir. Jonathan Glerum advised that this information would be brought back to the Committee at its next meeting.

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- The Committee asked for an update on the flood in Hull Drive, Lincoln. Matthew Moore explained that Anglian Water had worked with the Council to develop a scheme, valued at approximately £30,000, to clear the blocked surface water system.
- The Committee thanked Anglian Water for their facilitation of a visit to Langworth, enabling them to appreciate the infrastructure allowing for a more efficient drainage system.
- Noting the reported discharge of effluent into the river network, Members asked to
 what extent was it a problem in Lincolnshire. Jonathan Glerum explained that Anglian
 Water considered itself a custodian of the environment and endeavored to improve
 it wherever possible. However, he stressed that overflows that were discharged did
 so, to mitigate the risk of flooding and damage. He suggested that combined sewer
 overflows should be considered as priority given their significant impact.
- Members stressed their gratitude of the work undertaken by Anglian Water and their work in relation to waste.

RESOLVED

That the presentation be received and noted.

23 FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE WORK PROGRAMME

Consideration was given to a report from Kiara Chatziioannou, Scrutiny Officer, which invited the Committee to consider and comment on the content of its work programme to ensure that scrutiny activity was focused where it could be of greatest benefit.

The Committee were advised that Riparian Watercourse Project, Natural Flood Management, an Memorandum of Understanding with Districts on incident response and provision of temporary resilience measures and the Coastal Adaptation Strategy were still awaiting to be programmed.

Members would have the opportunity to consider the red diesel ban and its impact on IDBs that was coming into effect from April 2022 at the 21 February 2022 meeting; the outcomes of the Digby Flood Alleviation Scheme would be reported at the 23 May 2022 meeting.

Referencing the South Lincolnshire Reservoir, Members asked if they could expect an update or presentation offering an overview of the project. The Scrutiny Officer acknowledged their request and would follow it up.

RESOLVED

That the work programme be approved as amended.

The meeting closed at 11.54 am

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Open Report on behalf of Andy Gutherson, Executive Director - Place

Report to:	Flood and Water Management Scrutiny Committee
Date:	21 February 2022
Subject:	Development Fund - Drainage Investigations & Flood Repairs - Progress on programme delivery

Summary:

This report informs the Committee of progress to date with the programme of work for the Development Fund for Drainage Investigations and Flood Repairs. The Governance Document and initial Programme of Works were approved by the Executive on 21 February 2020.

Actions Required:

The Committee is invited to review and comment on the progress with the Development Fund for Drainage Investigations and Flood Repairs.

1. Background

Funding to the value of £2.2million pounds (Capital £2m, Revenue £200k) has been made available to address drainage and flooding issues in Lincolnshire. A programme of work has been developed in collaboration between the Floods Team and Highways. Implementation of this additional investment was identified for delivery in Financial Year 2020/21 and 2021/22 with overall spend by March 2022.

Following presentation to Informal Executive in November 2019 on the planned approach, and endorsement by the Executive in February 2020 of the programme, officers in both service areas have been working towards the delivery of the programme to determine the cause of local flooding and drainage issues, and where appropriate deliver solutions on the ground.

The purpose of this report is to provide an update to members of this Committee on progress that has been made and some of the challenges that have been encountered which provide important learning for the delivery of any future programme of this nature.

Progress to date

In the majority of cases, determining solutions to drainage and flood risk issues can be notoriously difficult to predict until a thorough investigation has occurred, and local circumstances are fully understood. The endorsement of the programme Governance Document and of the programme itself has allowed officers to have the flexibility to manage the programme in the most efficient way guided by the results of necessary investigations and design work. The overall programme is currently on target to have the allocated £2.2million either spent, or committed in programme, by the end of March 2022. As indicated, individual scheme detail and predicted costs can fluctuate somewhat in certain cases as investigations reveal the true extent of what is required to bring a long-term satisfactory resolution, however this variation has been managed within programme and within allocated funds.

The current works programme for Drainage Investigations and Flood Repairs can be found in **Appendix A**. The majority of the programme consists of schemes being delivered via the Highway Asset Teams and this is currently in progress through the term contractor Balfour Beatty. Due to the scope of the work involved there has been an element of over programming from the highways perspective to maximise the delivery outputs and build in flexibility. Anything not completed against the smaller Highways schemes will be picked up under the existing Highways Asset Programmes. In summary 7 schemes were completed in 2020/21 with a combined value of £410,203 whilst in the current financial year a predicted spend of £345,000 includes 11 completed schemes and a further 5 in programme. Whilst this element of the programme focusses on more localised issues, there are a further 5 schemes being progressed by Technical Services Partnership due to being more extensive and complex in nature. Following investigations some of these schemes have increased in size and cost as the causation is better understood, however this will enable wider issues to be addressed working with partners to bring collaborative solutions and thus providing longer term benefits to these communities rather than a short-term fix. This has all been managed within the existing funding allocation. The projects at Freiston and Woodhall Spa have now completed works on site whilst the schemes at Scothern and Kirton have recently been out to tender for which results are awaited.

The scheme at Cherry Willingham will not have works commencing on site before March 2022, however what this funding has allowed is for the detailed investigation, design, and costing work to be undertaken providing 'shovel ready' schemes subject to any future funding agreement. This scheme in particular has proven complex in establishing suitable solutions in a joined-up manner to establish a suitable design, working with partners and other stakeholders, securing suitable agreements with private individuals, land access and network availability.

It should also be noted that 11 schemes which appeared on the original Development Fund programme are not now being taken forward as part of this work as, on investigation, the scale of the work involved was much reduced and will be taken forward separately by Highway asset teams (see Appendix A). The flexibility to manage the programme in this way has allowed the funding to be re-allocated to support the more significant schemes on programme to deliver wider benefits. It is worth reiterating that this Development Fund Programme is running alongside a full and extensive programme of drainage work being undertaken by the Highways Asset Teams and that of local partnership schemes and the capital programme of work being led by the Floods Team, collectively delivering some significant benefits to communities across the county as well as addressing some long-standing localised drainage issues.

A general point worth noting in managing the overall programme delivery is that sourcing construction materials (supply of raw materials), labour, plant etc is currently very challenging and has the potential to impact on scheme delivery of this and wider programmes moving forward. This is replicated nationally and is unfortunately, factors that are outside the control of the Programme Delivery Board. This situation has been influenced by a variety of factors such as Brexit (affecting cement imports particularly) and Covid, some aspects of which have been reported widely within the national media. The Programme Delivery Board will continue to closely monitor these circumstances and highlight any significant concerns through the established Governance Structure.

Next Steps

With the increase in scale on some of the schemes within this programme, to maximise the long-term benefits, the investigation, feasibility, design and construction in the same year has been very challenging but has been managed with great support through both the floods and highways teams, Technical Services Partnership and the term service contractor, Balfour Beatty. And whilst this programme of work will have achieved some significant benefits both locally and more widely to communities, the collaborative working between the Floods and Highways teams have highlighted further opportunities to understand and address drainage and flooding issues beyond the scope of this particular programme and deliver efficiencies in budget. To that end the Programme Delivery Board have taken the opportunity to start feasibility work on future schemes to ensure a pipeline of activity is retained.

Following a meeting of Informal Executive on 21st December 2021 it was agreed to provide an allocation of £1.444m to extend the Drainage Investigation and Flood Repairs scheme for a further two years. The allocation being £0.750m in FY2022/23 and £0.694m in 2023/24. This will allow the Programme Delivery Board to continue to build on the achievements of this programme and deliver the pipeline projects identified. Taking learning from the current programme the preferred approach would be for detailed investigation and design in FY2022/23 and construction in 2023/24, although this would only be for the larger more complex schemes. Taking this approach would allow;

- More certainty on delivery so budget is spent, but also spent efficiently and effectively.

- Stable resource management – both engineering design staff and contractors being available (investigation and construction).

- Appropriate time to manage unknowns such as investigations and land access

- Ensuring highway network is available at an appropriate time (road space not already booked by others)

- Programming (and achieving) construction at an appropriate time (outside of winter season)

The Programme Delivery Board would welcome views and guidance from members on the Development of any future programme for Drainage Investigation and Flood Repairs.

2. Conclusion

Works originating from the Development Fund – Drainage Investigations and Flood Repairs have already delivered benefits to areas in the County whilst in developing a future pipeline of works further improvements and benefits will be realised where drainage and flooding issues currently exist.

Working within the governance structure, this has allowed officers to continue to carry out the necessary investigations and design works for the schemes identified within the attached programme and have the flexibility to manage the programme to deliver greatest benefit. This approach will now be continued into a future programme of work for FY2022/23 and 2023/24 with further reporting to committee on both the conclusion of the current programme and the forward plan of works once this has been developed.

3. Consultation

a) Risks and Impact Analysis

The programme for the Development Fund - Drainage Investigations and Flood Repairs will be monitored throughout its duration as per the approved governance document.

4. Appendices

These are listed below and attached at the back of the report			
Appendix A	Development Fund – Drainage Investigations and Flood Repairs –		
Programme of Work 2021/22			

5. Background Papers

No background papers within Section 100D of the Local Government Act 1972 were used in the preparation of this report.

This report was written by Matthew Harrison, Flood and Water Manager, who can be contacted on 07771 837565 or <u>matthew.harrison@lincolnshire.gov.uk</u>.

Development Fund - Drainage Investigations & Flood Repairs Programme 2020/21 and 2021/22

Highways drainage works summary		
Scheme	Status	
Moortwon Road, Kelsey	Completed in 2020/21	
Royal Oak Lane, Aubourn	Completed in 2020/21	
Barton Street, Covenham	Completed in 2020/21	
Lincoln Road, Wickenby	Completed in 2020/21	
Leas Road, Wickenby	Completed in 2020/21	
B1397 Main Road, Gosberton	Completed in 2020/21	
Middletons Field, Lincoln	Completed in 2020/21	
Total value £410,203		
Works Programme 2021/22		
High Street, Blyton	Jetting and investigation completed April 2021	
Cliff Rd, Welton	Jetting and investigation completed October 2021	
Martin Close, Heighington	Jetting and investigation completed April 2021	
Teford Road, Salmonby	Works completed October 2021	
Halls Lane, Goulceby	Works completed June 2021	
Marston village, Marston	Planned late 2021/22 and jobs with BB	
A52 Bridge End Road, Grantham	Jetting and investigation completed May 2021	
Lutton War Memorial, Lutton	Works Completed August 2021	
Main Road, Ingleby	Works completed June 2021	
B1241 High Street, Sturton	Works jetting and investigation due by Mar 2022	
Charles Avenue, Scotter	Works jetting and investigation due by Mar 2022	
Edenham Road, Bourne	Complete	
Sudbeck Lane, Welton	Works jetting and investigation due by Mar 2022	
A153 Main Road, North Kyme	Dressing June 2021 - EA drainage	
Main Road, Sedgebrook	Works completed with NR	
Ferry Road/Hall Court,	Jetting and investigation planned November 2021	
Fiskerton		
Total value £345,000		

Highways drainage works summary

TSP works summary

Scheme	Status
Village Centre, Woodhall	
Spa	Investigations and works completed 2021
Fiskerton Road, Cherry	
Willingham	Designed & costed 2021/22
A52 Main Road, Frieston	Works completed November 2021
Station Road, Kirton	Designed & costed 2021/22
Sudbrooke Road, Scotherm	Designed & costed 2021/22
Total value £1,453,047	

Scheme	Status/Rationale
A52/A607 Junction, Grantham	Investigation ongoing 2021/22
Main Road, Newton on Trent	Investigation ongoing 2021/22
B1184 Hale Lane, Sibsey	Works done as part of Patching works planned Jan 2022
Main Road, Scopwick	Patching done by Local Higwhays Teams 2021
Main Road, Bransby	Patching done by Local Higwhays Teams 2021
Silver Street, Bardney	With local highways team 2021/22
B1190 Bardney Causeway,	
Bardney	With to local highways team 2021/22
Louth Road, Binbrook	Jetting works undertaken by local highways team 2021
Bardney Cemetery, Bardney	With local highways team 2021/22
Abbey Road (Bardney	
Lakes), Bardney	With local highways team 2021/22
Hobhole Bank	Passed to Highways Asset Team, works planned 2022

Schemes no longer being taken forward under Development Fund



Open Report on behalf of Andy Gutherson, Executive Director - Place

Report to:	Flood and Water Management Scrutiny Committee
Date:	21 February 2022
Subject:	Lincolnshire Homeowner Property Flood Resilience Assistance Scheme update

Summary:

To update members of the committee on the development and promotion of the Council's pilot approach to enhancing the resilience of properties to flooding throughout Lincolnshire in locations where traditional community-based initiatives would not be economically feasible through grant source measures. Members' comments and guidance in continuing to develop the trial and the overall project is sought.

Actions Required:

Members of the Flood and Water Management Scrutiny Committee are asked to comment on the scope and status of the project and guide officers in developing the project further.

1. Background

Following flooding events in Lincolnshire caused by severe weather and high rainfall that took place in the latter part of 2019 and early 2020, options were explored to start a pilot Property Flood Resilience (PFR) funding assistance scheme in Lincolnshire based on the existing PFR model being delivered by Essex County Council. Following meetings with Essex County Council and their contractors / suppliers it was then decided to build upon this model, adding in improvements that tailor specific needs for Lincolnshire, improving alignment with national codes of practice and ensuring products meet British Standards including 'wet testing'.

Broader Context

At a national scale the approach being taken within Lincolnshire is unique, with the administrative systems that have been developed and the bespoke measures identified for each property. Some key aspects of this approach include;

- 1) The use of the Jadu Case Management system to minimise administrative burdens on the Flood Risk Team.
- 2) The use of standard templates to align the process with the National Property Flood Resilience (PFR) Code of Practice.
- 3) The trial scheme shall look at resistance, recoverability, and preparedness measures, i.e., the whole suite of PFR measures.

The approach that Lincolnshire County Council has taken has received interest and support from a range of both regional and national stakeholders including the Charted Institute of Water and Environmental Management (CIWEM), Construction Industry Research and Information Association (CIRIA), FloodRe and the Department for Environment Fund and Rural Affairs (DEFRA). The scheme has also recently had exposure by MP Olivia Blake (Labour, Sheffield, Hallam) from the House of Commons asking questions to DEFRA regarding the effectiveness of the Lincolnshire Scheme. In a response provided by Rebecca Pow MP on 28th of October 2021 she highlighted how property level resilience measures can play a key role in reducing flood risk and helping people get back into their homes quicker following a flood. She welcomed the initiative shown by Lincolnshire County Council in developing a local Property Flood Resilience (PFR) scheme and expressed she will be keen to hear about the lessons identified.

Progress To Date

Nationally, the government invested £2.9 million from the 2018 budget to support regional PFR pathfinder projects in in three areas of the UK to develop interventions to promote use and understanding of PFR. This scheme has just concluded and is being evaluated and will help in providing valuable learning more widely. In line with the government's current direction on PFR the County Council initiated a 12-month pilot scheme which provided up to £5,000 of financial assistance for the installation of bespoke PFR measures approved by the Flood Risk Team. This followed detailed reviews of the suggested measures thereby ensuring that any measures implemented are proportionate and cost effective. Funding for the scheme came from Lincolnshire County Council.

The pilot scheme is being delivered in partnership between the County Council and Essex County Council, utilising existing contractors, suppliers and associated frameworks for the delivery of PFR to 10 properties in Lincolnshire. The pilot focused on those properties for which a number of S19 flood investigation reports have been completed. Residents were contacted directly and asked if they would like to participate within the pilot scheme.

In light of lessons identified by the pilot scheme, the County Council has developed its own mechanism for the delivery of bespoke PFR measures, ensuring the scheme is tailored to the specific needs of residents within Lincolnshire, delivers value for money, and minimises the County Council's resource expenditure in terms of administration. These mechanisms went live in July 2021. The scheme aims to protect up to 35 eligible properties from all sources of flooding via the installation of proportionate and bespoke resistance, recoverability and preparedness measures. In short, these measures can be summarised as follows;

<u>Resistance</u> – Those measures which minimise water ingress, for instance, flood doors, flood barriers, self-closing airbricks / airbrick covers, non-return valves, sealing service pipework, repointing of mortar and waterproof sealant etc.

<u>Recoverability</u> – Those measures which minimise damages following water ingress, for instance, the raising of electrical sockets, the use of resilient plaster or plasterboard laid horizontally, the installation of kitchen units made from metal / marine ply / plastic on legs concealed by removable kickboards and the wall-mounting of boilers or placement on upper floors etc.

<u>Preparedness</u> – Those measures which facilitate effective response to flooding, for instance the creation of household flood plans and the use of existing early warning systems from the Flood Forecasting Centre etc.

Such measures are identified through a collaborative process with the homeowners concerned including a flood hazard and property assessment survey. The number of eligible properties identified is a target outlined within the Outline Business Case in the application for Flood and Coastal Erosion Risk Management Grant in Aid (GiA) and Local Levy funds. Through the three sources of funding outlined below it has been requested to move 35 properties per year (aim is to protect ~ 115 - 120 properties over a 3-year period) from the very significant to significant risk bandings.

Funding to the value of £193,000 has so far been made available for the scheme, with financial breakdowns of this funding outlined in the table below.

Year	Source	Amount (£)
	GIA	75,000
2021 - 2022	Local Levy	50,000
	Lincolnshire County Council	68,000
Total		193,000
2022 - 2023	GIA	50,000
2022 - 2023	Lincolnshire County Council	32,000
Total		82,000

Table 1: Funding financial breakdown

It is worth noting that due to uncertainties surrounding the type and status of future eligible properties, alongside the risk of abortive costs there is some potential for variance in the above figures and number of properties protected per year however as part of managing this process the Flood Risk Team will make all reasonable efforts to minimise any such risks thereby maximising the benefits that can be delivered to homeowners within Lincolnshire.

At the time of writing 7 eligible properties have been admitted onto the scheme and LCC's appointed contractor is currently in liaison with the homeowners concerned.

In addition to the above the potential to further promote the scheme is currently being explored by the flood risk partnership, with the aim of enhancing awareness via a variety of measures within the 2022-2023 financial year. Measures considered include:

- The use of the 'floodmobile' at the Lincolnshire Show and other strategic locations across Lincolnshire with a history of flooding. Further details of which can be found <u>here</u>.
- Advertising via Social Media
- Parish and town council newsletters
- County News
- Local community resilience groups

Consideration will be given to the relative priority of the proposed measures and any potential issues that might arise with pursuing them.

Next Steps

The Flood Risk Team will continue to work with partners and residents to promote and develop PFR approaches in Lincolnshire and in doing so evaluate lessons identified which will help shape and support any potential longer-term initiatives in the county. Further updates on progress will be provided to future meetings of this committee.

2. Conclusion

Members are asked to consider the approach outlined above and continue to support officers with guidance and advice throughout the development of the Lincolnshire Homeowner Property Flood Resilience Assistance Scheme.

3. Consultation

a) Risks and Impact Analysis

N/A

4. Background Papers

No background papers within Section 100D of the Local Government Act 1972 were used in the preparation of this report.

This report was written by Matthew Harrison, Flood Risk Manager, who can be contacted on 07771 837565 or <u>matthew.harrison@lincolnshire.gov.uk</u>.

Agenda Item 7



Open Report on behalf of Andy Gutherson, Executive Director - Place

Report to:	Flood and Water Management Scrutiny Committee
Date:	21 February 2022
Subject:	Lincolnshire Riparian Project update

Summary:

To update members of the committee on the development of the Council's approach to the network of riparian watercourses across Lincolnshire, along with strengthened engagement with riparian landowners. Members' comments and guidance in continuing to develop the project is sought.

Actions Required:

Members of the Flood and Water Management Scrutiny Committee are asked to comment on the scope and status of the project and guide officers in developing the project further.

1. Background

In response to impacts experienced during recent rainfall events from riparian watercourses, the Joint Lincolnshire Flood Risk and Water Management Partnership has been exploring how existing ways of working can be improved, to implement a more robust, co-ordinated, and sustainable approach to reducing the risk of flooding from riparian assets and watercourses.

As part of this approach, the existing Memorandum of Understanding (MoU) that exists with Internal Drainage Boards (IDB) to provide consenting and enforcement services on behalf of the County Council, in the 52% of the county that lies outside IDB Districts, is currently under review for implementation in April 2022 and thereafter.

This report provides a progress update with the Lincolnshire Riparian Project since last reported to committee in September 2021. Further updates on project delivery and lessons identified will be provided to future meetings of the committee leading to its conclusion in March 2023.

Progress To Date

In assessing potential measures needed, the Partnership sought to make extensive use of local knowledge in identifying what the most effective solutions might be and where these might most effectively be applied. For this reason, a representative sample of parish and town councils, town forums and wards across Greater Lincolnshire were asked to participate in a questionnaire.

The results of the questionnaire were reviewed in the context of national and regional experience and discussion, leading to the identification of a range of possible measures that could form the basis for how a proportionate countywide, co-ordinated approach to managing flood risk from riparian assets and watercourses could be achieved and more importantly maintained.

Since then, extensive exploration of the development of these measures has been undertaken by the Partnership, culminating in the development of a draft Joint Action Plan (Appendix A) that consists of 14 suggested measures for approval and endorsement by the Strategy Group of the Partnership.

It is worth mentioning that the scope of the project has expanded considerably since inception due to the identification of opportunities for innovation and the building upon of existing practices. This holds true particularly for those measures associated with partnership working, the inclusion of which was deemed necessary by the Partnership to ensure that the proposed suggestions and any future developments regarding the management of riparian watercourses and assets across Lincolnshire can be readily incorporated into and sustained by the Partnership.

Notwithstanding the above it is important to note that the initial emphasis of the project, being the raising of awareness of riparian responsibilities and the ensuring of a consistent approach regarding enforcement, remains a core component of the project, evidenced by the fact that these measures are identified as being of highest priority within the Joint Action Plan. The priority of measures, as outlined in Appendix A, reflects the viewpoints of the Partnership at the time of writing; however, this is not to say that the priority of measures shall remain static throughout the delivery of the programme of works. Indeed, subject to resource availability and existing commitments, the priority of measures may change during programme delivery, and shall be frequently reviewed by the Partnership to ensure the proportionate management of risks whilst maximising opportunities for efficiencies and learning.

For the avoidance of doubt measures within Appendix A are listed in order from highest to lowest priority, with the priority of each measure being based on its potential impact, ease of deliverability and desirability.

Highest priority measures within the action plan		
Priority	Measure	
1	Awareness-raising of rights and responsibilities among riparian landowners	
	 in conjunction with national communication campaigns 	
2	Developing a more consistent and visible approach for consenting and	
	enforcement activities on watercourses across Greater Lincolnshire	
3	The strengthening of the existing first point of contact principle, and its	
	extension across Greater Lincolnshire	
4	Refinement and expansion of responses to conveyancing enquiries	

Throughout the development of the project, resource has been a recurring theme, with a clear understanding from partners that whilst the project is being led by the County Council the implementation of measures rests with the Partnership as a whole. Acknowledging concerns that may exist regarding the deliverability of the project's ambitions, it is worth noting that the work involved, and subsequent resources required with each measure will vary considerably although the majority simply build upon existing approaches and will therefore only require staff time, with the flood risk partnership alongside North and North East Lincolnshire Council providing support for the measures proposed.

In addition to the above all reasonable efforts are being made by the Partnership to minimise any such risks, thereby maximising the benefits that can be delivered to local communities across Lincolnshire.

Next Steps

Working within the governance structure of the Partnership, the Joint Action Plan shall be presented to the Strategy Group with the aim of gaining approval of the plan by April / May 2022, with implementation to follow as appropriate during 2022 and thereafter.

Further reporting to committee between now and conclusion of the project in March 2023 will continue.

2. Conclusion

Members are asked to consider the approach outlined above and continue to support officers with guidance and advice throughout the development of the project.

3. Consultation

a) Risks and Impact Analysis

N/A

4. Appendices

These are listed below and attached at the back of the report		
Appendix A	Lincolnshire Riparian Project - Proposed Action Plan	

5. Background Papers

No background papers within Section 100D of the Local Government Act 1972 were used in the preparation of this report.

This report was written by Ryan Davies, Assistant Flood Risk Officer, who can be contacted on 07917 520900 or <u>Ryan.Davies@lincolnshire.gov.uk</u>.

Lincolnshire Riparian Project Update – Proposed Action Plan

ID	Measure	Where	When	Who	Cost	Funding Source	How
1	Awareness-raising of rights and responsibilities among riparian landowners – in conjunction with national communication campaigns	Greater Lincolnshire	TBC	The Partnership, NELC, NLC	TBC	ТВС	The development of an engagement plan and the enacting of arrangements therein
2	Developing a more consistent and visible approach for consenting and enforcement activities on watercourses across Greater Lincolnshire	Greater Lincolnshire	ТВС	The Partnership, NELC, NLC	Officer Time	NA	The development and embedding of an enforcement guide
3	The strengthening of the existing first point of contact principle, and its extension across Greater LincoInshire	The Partnership, NELC & NLC	ТВС	The Partnership, NELC & NLC	Officer Time	NA	The development of a list of contacts for all RMAs across Greater Lincolnshire
4	Refinement and expansion of responses to conveyancing enquiries	Lincolnshire	ТВС	LCC	Officer Time	NA	Update the standing advice provided by LCC to conveyancing enquiries to incorporate information regarding riparian landownership
5	Establishing a register of organisations able to undertake rapid, small-scale maintenance work	NA	ТВС	The Partnership, NELC, NLC	ТВС	ТВС	Investigate ways of establishing a register of organisations. Potential routes may include the expansion of the Blue Pages
6	Improve the regularity and visibility of the four local flood and drainage groups to identify local issues and implement solutions quickly within existing resource	Local Flood & Drainage Groups	ТВС	The Partnership, NELC, NLC	Officer Time	NA	Undertake an embedding process which reiterates the importance of these meetings, why attendance is beneficial, expectations and roles and responsibilities. In addition to the above a forward programme of meetings shall be established
7	Exploration of new sources of resource or means of better co-ordinating existing resource dedicated to this area of work	Greater Lincolnshire	TBC	The Partnership, NELC, NLC	TBC	TBC	 Explore new sources of resource or means of better co-ordinating existing resource, which may include: Lobbying the LGA to increase the amount of funding received from the Department for Levelling Up Housing and Communities Lobbying central government through professional networks, such as ADA, ADEPT, LGA to ensure adequate funding is provided for maintenance activities Setting money aside from council taxes for land drainage works Presenting a compelling case for increasing organisational budgets with regards to land drainage and / or community resilience to local authorities Making greater use of funding and financing from non-public sector sources to contribute to the investment needs of flood and coastal resilience Greater and more coordinated use of Local Levy funding Promotion of funding opportunities at local flood and drainage groups Developing a consistent approach regarding charging for advice
8	The establishing of principles for the reasonable inspection of partner assets during site visits	Lincolnshire North Lincolnshire	ТВС	The Partnership, NLC	Officer Time	NA	Will look to establish and embed a principle for the reasonable inspection of partner assets during site visits, drawing upon the

Lincolnshire Riparian Project Update – Proposed Action Plan

							experience gained from East Lincolnshire
9	Lobbying through professional networks such as ADEPT, the LGA and ADA to influence the direction of local and national planning policy with regards to flood risk and water management	NA	ТВС	The Partnership, NELC, NLC	Officer Time	NA	Comment on national management in plannin, ADEPT, the LGA and AD, development free edge undertaken
10	Consider the creation of byelaws in specific locations where proportionate and appropriate	Lincolnshire North Lincolnshire	ТВС	The Partnership, NLC	Officer Time	NA	Work with partner orga measure, the implicatio
11	The development of a national community of best practice through networks such as ADEPT	NA	ТВС	The Partnership, NELC, NLC	Officer Time	NA	Actively promote the Lincolnshire, with reco development of a nation riparian landownership
12	The identification and monitoring of key riparian assets within high consequence flood risk areas	ТВС	ТВС	LCC, NLC	Officer Time	NA	The publishing of an watercourses, in addition of key riparian assets sh the determination of b identification of lessons
13	Strengthening the partnership across Greater Lincolnshire by actively developing and upskilling staff, reviewing existing arrangements and promoting the good work undertaken by the partnership	Local Flood & Drainage Groups Internal Drainage Board Meetings Scrutiny Committees	TBC	The Partnership, NELC, NLC	Officer Time	NA	The undertaking of va partnership across Grea The active prom The developme professional dev The active prom A review of communication authority scrutin
14	Encouraging Risk Management Authorities (RMA) across Greater Lincolnshire to formally designate assets as flood risk assets under the Flood & Water Management Act 2010	Local Flood & Drainage Groups Management Group	ТВС	The Partnership, NELC, NLC	Officer Time Legal Resources	Individual Organisations	Encourage RMAs via the designating assets unde Management Act 2010

om existing informal arrangements within North

hal consultations about flood risk and water ning policy through professional networks such as ADA. In addition to the above a review of existing lge policies within Greater Lincolnshire shall be

ganisations to determine the benefits of this tions of it, and identify alternative solutions

he work being undertaken across Greater commendations to professional bodes for the ional community of best practice with regards to ip

an online map that depicts the location of ition to key riparian assets. Initially the mapping shall be restricted to 4 trial sites, thus enabling benefits and resource demands alongside the ns

various activities to strengthen the existing eater Lincolnshire, which may include:

omotion of good news stories

ment and circulation of a joint training and development programme

omotion of lessons identified

of existing arrangements with regards to ons between internal drainage boards and local utiny committees

the development of briefing papers to consider der Schedule 1 of the Flood & Water

Lincolnshire Riparian Project Update – Proposed Action Plan

List of Abbreviations

The Partnership means the Joint Lincolnshire Flood Risk and Water Management Partnership

NELC means the North East Lincolnshire Council

NLC means the North Lincolnshire Council

LCC means the Lincolnshire County Council

RMAs means Risk Management Authorities as defined within Section 6(13) of the Flood & Water Management Act 2010.

ADA means the Association of Drainage Authorities

ADEPT means the Association of Directors of Environment, Planning and Transport

LGA means the Local Government Association

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Open Report on behalf of Andy Gutherson, Executive Director - Place

Report to:	Flood & Water Management Scrutiny Committee		
Date:	21 February 2022		
Subject:	Flood Risk Team update (including Section 19 investigations)		

Summary:

To provide an update to Committee on the recent work of the Flood Risk team including informing the Committee of the status of all current flood investigations being undertaken in the County.

Actions Required:

The Committee is invited to:

- 1. To view the current list of completed and active flood investigations online at <u>https://www.lincolnshire.gov.uk/flood-risk-management/flood-investigations</u>
- 2. Inform Democratic Services (Scrutiny Officer) in advance if they wish to raise any particular sites at the forthcoming Committee meeting.
- 3. To note and comment as required on updates provided on the work of the Flood Risk Team.

1. Background

A standing item to inform the Committee on the position of all current Section 19 investigations in the County has been in place for some time. Whilst this report will still highlight the status of such investigations in the county, the opportunity is also being taken to update the committee on recent work and initiatives for which the Flood risk team are involved. This will hopefully provide members of the Committee with a much broader understanding on some of the recent work that has been undertaken in the County.

Investigations under Section 19 of the Flood and Water Management Act 2010

The Committee will be aware that all such investigations are published on the County Council's website by means of an interactive map, whether the investigation is completed, actively under investigation or awaiting works to mitigate future flooding.

It is a duty under Section 19, Flood & Water Management Act 2010 (F&WMA) for the Lead Local Flood Authority (LLFA) to carry out investigations to identify which Risk Management Authorities (RMAs) have a flood risk management function in connection with the flood and whether they have exercised, or intend to exercise, that function in response to the flood. To assist with this, Lincolnshire County Council (LCC) as the LLFA makes recommendations for proportionate works to manage future flood risk, to be delivered by individual RMAs or in partnership as considered appropriate or expedient. Such recommendations are also published although this is over and above the requirements of the F&WMA; all recommendations for mitigation works and the RMA leading those works are available to view on the interactive mapping. If Members have any site-specific questions, they are requested to contact the Flood and Water Manager in advance of the meeting.

As previously reported to members of this committee, the workload generated by significant and widespread flooding in 2019 and 2020 has proved challenging. It is pleasing to report however that during the early part of 2022 further discussions have taken place to review and streamline the investigation process to address not only the current incomplete investigations but also to assist with better managing the process in future whilst maintaining the high quality of investigation reports. Members will be pleased to learn an increase in turnover of reports continues to be realised and this will be closely monitored over the coming weeks and months to ensure this level of delivery can be maintained both now and moving forward into the future.

With regards to new flood investigations starting in Quarter 3 of 2021/22 (October to December), there were 5 S.19 Investigations started affecting 7 residential properties. This compares with 18 investigations affecting 36 properties in Q3 last year, 2020/2021. It was previously reported that 23 investigations had been started during Q3 of 2020/2021, however this figure has now been revised following the conclusion of a number of investigations which determined that internal flooding had not occurred and as such have now been logged as a 'near miss'.

Number of Reports On-going	232		
Number of Completed Investigations with	44		
Outstanding Works			
Number of Reports Commissioned in Q4 (2021	1 (at the time of writing)		
/2022)			
Number of Reports Commissioned in Q4 (2020 /	21		
2021)			
Number of Reports Circulated to RMAs for	5		
Endorsement			
Reports Awaiting Sign-off	4		

Table 1: Current status of active S.19 investigations (3/2/2022)

The total annual number of S.19 investigation and properties affected between 2012 and 2020 can be seen in table 2 below. The data for 2021 has been split into each quarter with Q3 the most recent reporting period.

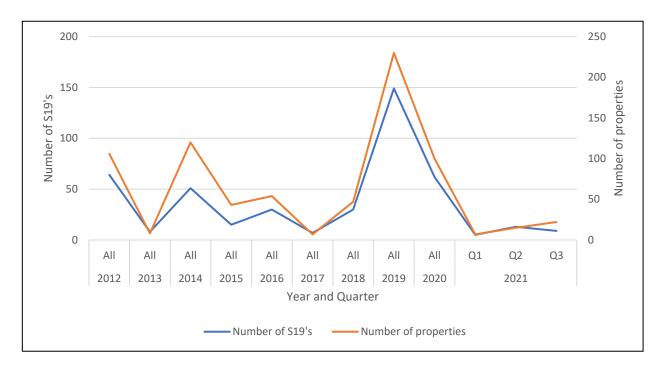


Table 2: Annual totals of Number of S.19 Investigations and properties affected

Recently completed flood risk projects

The flood risk team have been working with partner organisations in Lincolnshire to deliver flood risk mitigation measures at a number of locations in the county. Some recently completed projects are detailed below. This provides an example of some of the type of work which the team are involved with on a day-to-day basis.

Tallington

Description of work

Removal of silt from the surface water system running throughout the village which was 98% blocked. Works included extensive jetting, robotic cutter and CCTV of the system. On completion of the works LCC will make further assessment if there is a need for further gullies to try and mitigate against water pooling on the highway and retrofit gulley pots to the gullies where needed.

Organisations involved Anglian Water (Lead) LCC Flood Risk Team LCC Highways

<u>Costs</u>

Final costs TBC – c£50k total of which £35k Anglian Water, £15k LCC.

Outcomes

Better protection to a single residential property that has suffered repeat flooding and addressing significant standing water on the carriageway during rainfall events which has previously been attributed to an RTC.

Millgate, Whaplode

Description of work

Light but persistent rainfall caused the field drains to slowly fill and back up to capacity and overtop onto the highway with standing water blocking the road for up to 3 weeks at a time preventing egress for residents and access for food delivery vehicles and waste collection. The depth of water encroached onto properties causing saturation of gardens and eventually through the foundations of the properties. Field drains did not function in their capacity during rainfall due to blockages and poor condition of the watercourses. A Section 19 investigation was instigated, and the results led to the formation of a partnership scheme to identify a solution. South Holland Drainage board identified two solutions involving reconnection of the field drains to a functioning watercourse, with a new cut established. In addition, a highways culvert was also identified as requiring replacement. Reconnection of the field drains and new cut were completed towards the end of 2021 whilst it is planned to commence replacement of the culvert by the Highways Authority at the end of February 2022.

Organisations involved

South Holland Internal Drainage Board LCC Flood Risk Team LCC Highways

<u>Costs</u>

Total cost £25,200 split evenly between the three organisations (£8,400 each).

Outcomes

Final assessment of the number of properties to be better protected by this scheme is yet to be fully assessed but is currently estimated to be between 15 and 20.

Figure 1 on the following page shows an example of the extent of flooding experienced on the carriageway



Figure 1: Flooding to Millgate, Whaplode

Louth Road, Binbrook

Description of Work

To address the significant impacts of overland flows and groundwater issues. Anglian Water undertook initial CCTV, jetting and modelling work to the existing systems in the carriageway. Works comprised new larger capacity gullies installed on both sides of carriageway, also increased sizes of carrier drains on the left-hand side of the carriageway (facing uphill) and connecting new gullies to increase capacity. New carrier drains and gullies installed on the right-hand side of the carriageway, connected to French drains on the Public Right of Way to collect overland flow. New kerbs and bollards installed to protect verge with assets underneath.

Organisations involved

East Lindsey District Council (Lead) LCC Flood Risk Team LCC Highways Anglian Water

<u>Costs</u>

Final costs TBC but total scheme c.£58k with multi partner involvement with shared project costs.

<u>Outcomes</u>

Final assessment still to be made but initial outputs show this scheme will better protect 10 residential properties , 6 commercial properties and Binbrook Retained Fire Station

Figure 2 below shows examples of Louth Road during flood conditions, during scheme construction and a section post construction showing landscaping and French drains to intercept overland flows.



Figure 2

2. Conclusion

Despite the continued pressure on resources as a result of the above-average number of flood investigations being initiated, good progress continues to be made in managing the backlog of investigations while maintaining quality. This process will remain under constant review to ensure maximum efficiency when producing an appropriate, reasonable, and proportionate report. The Flood Risk Team will continue to build on the excellent working relationships it has with other Lincolnshire Risk Management Authorities to deliver partnership projects for the benefit of residents and communities across the county. Further updates will be presented to future meetings of this committee.

3. Consultation

a) Risks and Impact Analysis

N/A

4. Background Papers

No background papers within Section 100D of the Local Government Act 1972 were used in the preparation of this report.

This report was written by Matthew Harrison, Flood Risk Manager, who can be contacted on 07771 837565 or <u>matthew.harrison@lincolnshire.gov.uk</u>.

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Open Report on behalf of Andy Gutherson, Executive Director – Place

Report to:	Flood Risk and Water Management Scrutiny Committee
Date:	21 February 2022
Subject:	Local flood incident management - Draft MoU between LCC and District Councils

Summary:

A draft Memorandum of Understanding has been prepared during 2021 to better define and clarify the respective roles and responsibilites of local authorities during localised emergency events that fall below the trigger threshold for convening multiagency emergency structures and procedures. It is also intended to describe and clarify the arrangements that have been put in place and exercised to improve response to unexpected, localised events where limited warning has been available due ti weather unpredictability. Members are asked to support offiicers in completing final revisions to the MoU and securing local authorioty endorsement.

Actions Required:

The Flood and Water Management Scrutiny Committee is invited to note the processes and procedures outlined in the Draft MoU, to support officers in making any remaining amendments and clarifictions to the draft, and in securing local authority endorsement of the resulting finalised version.

1. Background

During 2021 Lincolnshire County Council (LCC) and its partners have put in place new arrangements to help manage the impacts of flooding events which have local impact but may not reach the broader trigger thresholds that cause larger scale and well-rehearsed multi-agency emergency response to be put into operation.

In addition, a means of ensuring greater readiness for unexpected, localised events has been sought, where local impacts have not followed weather patterns expected from national forecasts. These measures were implemented during 2021.

In parallel with this a Memorandum of Understanding has been drafted and shared with District Councils to: -

- Clarify and describe the resources and responsibilities of partner authorities in the event of a localised incident where wider multi-agency arrangements are not triggered,
- Outline processes and procedures in this event, including the enhanced communication and liaison arrangements put in place during 2021,
- Show how these arrangements fit into the broader multi-agency plans that are already well-rehearsed and practiced.

The MoU has been drafted with the aim of incorporating the views and comments of partners, and a number of versions have been circulated to partners for this purpose over 2021, the latest in late November. Comments and proposed amendments to this version have been received from one district council, but it is important that we can fully reflect local arrangements across Lincolnshire, and it is hoped that other Councils will wish to make comment so that the document can be completed and agreed.

In order to test whether the process as described in the MoU would work in practice, two exercises were carried out during 2021.

On 25 August the first test took place, with representatives from the LCC Emergency Planning & Business Continuity Service, the LCC Highways Duty Officer, Lincolnshire Fire and Rescue and East Lindsey District Council. A series of injects around requests for flooding support were submitted, and the virtual formation of the group was tested. Key learning from this first exercise was the initiation trigger for the group was set too low – it activated when the first request for support was received. It became clear that LCC Highways had the capacity to respond to a higher level of requests before the need to involve partners became appropriate.

Following amendments to the process, a second exercise was held on 27 September. Representation on this occasion involved the LCC Emergency Planning & Business Continuity Service, the LCC Highways Duty Officer, Lincolnshire Fire and Rescue, as well as on this occasion West Lindsey District Council. This exercise commenced at the point where the capacity of LCC Highways was being stretched. Again, the exercise proved that the virtual set-up of the group could be accomplished, and with the bar being set higher the requirement for active co-ordination was more relevant.

With the lead into winter pressures and move back into a response phase for Covid-19, no further exercises were carried out in 2021, but active efforts are underway to schedule two further exercises for the near future. These will test a wider geographical level of incident (previously only one district was impacted) as well as including more partners (Environment Agency, Police, and Internal Drainage Boards), yet remaining below the level of a declared multi-agency formal response structure. These exercises will provide an opportunity for the remaining District Councils to participate, as well as exercising those Emergency Planning Duty Officers yet to experience the coordination role.

2. Conclusion

Members are asked to note the processes and procedures outlined in the draft MoU, to support officers in making any remaining amendments and clarifications to the draft, and in securing local authority endorsement of the resulting finalised version.

3. Consultation

a) Risks and Impact Analysis

Overall analysis of flood risk countywide is set out in the Joint Lincolnshire Flood Risk and Water Management Strategy, with further analysis of inland flood risk incdient impacts in the multi-agency Flood Risk Management Plan.

4. Appendices

These are listed	below and attached at the back of the report		
Appendix A	Memorandum of Understanding between Lincolnshire's Risk		
	Management Authorities- DRAFT		
Appendix B	MoU Appendix A – Incident Escalation		
Appendix C	MoU Appendix B – Partner Resources		
Appendix D	MoU Appendix C – 'Confirm' Notification		
Appendix E	MoU Appendix D – Incident Classification System		
Appendix F	MoU Appendix E – First Point of Contact Principles		

5. Background Papers

No background papers within Section 100D of the Local Government Act 1972 were used in the preparation of this report.

This report was written by David Hickman, Head of Environment, who can be contacted on 07919 045257 or via email at <u>david.hickman@lincolnshire.gov.uk</u>.

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Responding to localised, low-level flooding emergencies

Memorandum of Understanding between Lincolnshire's Risk Management Authorities

1. Purpose of the Memorandum of Understanding

The purpose of this Memorandum of Understanding (MoU) is to set out how Lincolnshire County Council and each of the signatory District Authorities will endeavour to work together for the purposes of providing civil protection before, during and after a localised, low-level flooding event which threatens serious damage to human welfare.

Such an event or situation can include: loss of human life; illness or injury; homelessness; damage to property; disruption of a supply of money, food, water, energy or fuel; disruption of a system of communication; disruption of facilities for transport or disruption of services relating to health.

As individual organisations, the County Council and the seven District Councils have a responsibility to prepare for civil protection and plan the response to an emergency, whether or not that incident happens to be related to flooding. However, the over-arching principle of this Memorandum of Understanding is to facilitate working in partnership in response to localised flooding in order to maximise the use of limited resources in the interests of public protection. This is especially important in circumstances which are beyond the capacity and capability of an individual organisation to manage alone.

2. Legislative background

Lincolnshire County Council (LCC) is identified in the Civil Contingencies Act (2004) as a Category 1 responder and has a duty to plan for civil emergencies. This duty is exercised by LCC's Emergency Planning and Business Continuity Service, which plans LCC's response to major flooding and other emergencies and co-ordinates with other Category 1 and 2 responders through the Local Resilience Forum (LRF). Listed below are the Category 1 and 2 responders relevant to Lincolnshire.

Category 1 responders are:

- Local authorities
- Lincolnshire Police, including the British Transport Police
- Lincolnshire Fire & Rescue Service
- East Midlands Ambulance service
- HM Coastguard

- Lincolnshire United Hospital Trust, Lincolnshire Foundation Partnership Trust, NHS England and Public Health England
- The Port of Boston, the Port of Sutton Bridge Health AuthoritiesThe Environment Agency

Category 2 responders are:

Utilities	 Western Power & Northernpower Grid Gas distributors Anglian Water & Severn Trent Water Telephone service providers (fixed and mobile)
Transport	 Network Rail Train operating companies (passenger and freight) Highways England Airport operators Harbour authorities
Others	The Health and Safety Executive

3. Flooding emergencies

The definition of an emergency, according to the Civil Contingencies Act, is:

- an event or situation which threatens serious damage to human welfare in a place in the United Kingdom;
- an event or situation which threatens serious damage to the environment of a place in the United Kingdom; or
- war, or terrorism which threatens serious damage to the security of the United Kingdom.

For declared multi-agency flood emergencies, LCC works in accordance with County emergency procedures and agreed command and control protocols through the multi-agency Strategic Co-ordination Group (SCG) and Tactical Co-ordination Group (TCG) co-ordinated by the Local Resilience Forum (LRF). However, whilst current operating procedures for these multi-agency emergency incidents are well established and practiced, it is recognised that there is a requirement for greater clarity on roles, responsibilities and coordination arrangements for the Category 1 and 2 responders providing civil protection before, during and after localised, low-level events. Such events might be described as sub-SCG/TCG, that is, they are not severe or widespread enough to trigger a full LRF response.

4. Operational Incident Response Plan

In its role as the Highways and Flood Authority (HFA), LCC has developed an Operational Incident Response Plan (hereafter referred to as a Response Plan), the purpose of which is to establish the arrangements for LCC to respond to unplanned

incidents in the County. The Response Plan is intended to encompass any type of incident, including flooding and other weather-related events.

The rationale for the Response Plan is the need to have a robust capability for responding to and dealing with highway and flooding related incidents. There are parallels between the Response Plan and the aims of this Memorandum of Understanding.

To ensure that the LCC incident response capability is efficient and effective, it needs to:

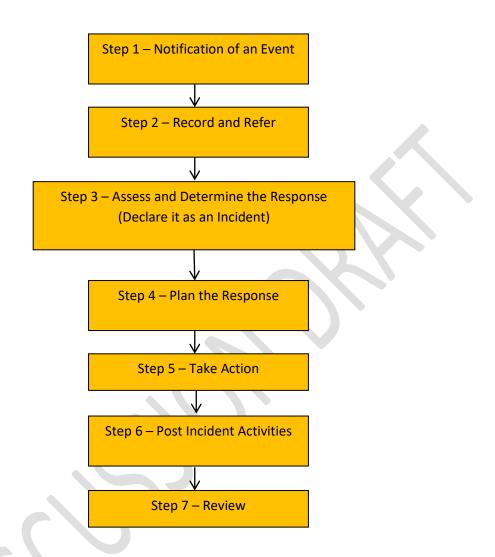
- be a formal procedure and rolled out across the HFA Service and its response partners;
- be tied into the existing generic incident arrangements to which LCC operates, both for the single agency response and for multi-agency response arrangements, i.e. SCG (Strategic), TCG (Tactical), and operational;
- detail how the HFA will need to change and restructure itself:
 - from its "normal day job" structures through to its "incident response" structure as the event evolves;
 - once the incident is resolved, how the HFA will return back to normality and to recovery activities; and
- follow the steps of the generic incident management process.

The adoption of the elements of the Response Plan applicable to flooding emergencies are commended to the signatories of this MoU as a methodology for ensuring the purpose of this MoU is achieved.

An overview of LCC's incident management process is attached at Appendix A, and as can be seen it lends itself to utilisation within the scope of this MoU.

5. Incident Management

The steps of the generic incident management process are set out below.



<u>Step 1 – Notification of an Event:</u> All Risk Management Authorities (RMAs) when notified by the public will do their utmost to deal with the enquiry rather than keep passing them onto different organisations (Pitt Report recommendation). LCC receives enquiries from the public via its Customer Service Centre or Fix My Street. Sometimes, these enquiries relate to local flooding which is reportedly threatening life and/or property. An example of such a notification is attached at Appendix C. These notifications can be shared with the signatories to give an indication of the extent of an active event and whether this is likely to lead to a demand for additional resource. Such reports can also reduce duplication of effort if it is clear that another organisation has responded to the situation on the ground.

<u>Step 2 – Record and Refer:</u> On becoming aware of an event requiring a response, the signatories should notify the LCC Winter & Emergency Duty Officer (WEDO) in order that a central log can be made and maintained. Such a log will be used to help in the assessment of the severity of an event, for example if more than one District

Council area is affected. If the reporting organisation requires assistance to implement and manage the response on the ground in accordance with its own response plan then support can be requested through the WEDO. It is important to note that the resources available to the WEDO are very limited and in practice the main role of the WEDO during the early stages of an incident will be to receive reports, maintain the log to establish a common operating picture and escalate the event in accordance with Step 3, as follows.

<u>Step 3 – Assess and Determine the Response:</u> Within the terms of this MoU and in consultation with the County Emergency Planning & Business Continuity Service, any of the signatories may initiate **Step 3 - Assess and Determine the Response** (Declare it as an Incident).

The effect of implementing Step 3 will be to utilise the services of the County Emergency Planning & Business Continuity Service to coordinate available resources within the affected District Council area(s) in order to provide a proportionate response to a local flooding incident.

<u>Step 4 – Plan the response:</u> The LCC Emergency Planning & Business Continuity Service will lead the coordination of requests for support during small scale flooding incidents. This will occur where requests are received within a limited geographical area (i.e. one Lower Tier Local Authority Area,) and for small incidents where significant multi-agency involvement is not required (a Level 1 Incident as defined in the Incident Classification System attached at Appendix D).

<u>Step 5 – Take action</u>: The on-call Emergency Planning Duty Officer will form and lead a small coordination group consisting of LCC Highways Network Resilience Team, a representative from the relevant District or Borough Council, and a lead from Lincolnshire Fire & Rescue. These organisations represent the key responders to small scale local flooding. The role of the group will be to identify and assess requests received from their respective organisations, and then deploy resources from the most appropriate source. These will include sandbags where circumstances allow.

The Emergency Planning Duty Officer will lead the coordination. Their role is to bring the relevant parties together to co-ordinate a response. Responsibility for delivery of, for example, sandbags, remains with the relevant parties. It must be recognised that assets are finite, and in the face of extreme conditions it may not be possible to deliver a viable solution very quickly, although all parties are committed to achieving the best outcomes possible in prevailing conditions and with the available resources.

Where the situation worsens and it is clear that either the geographical area has expanded or the seriousness requires that more agencies are involved, then the group will escalate to Level 2 when other RMA's will be invited by EP&BC to

convene a Severe Weather Cell, these will include the local internal drainage board, Environment Agency and local water company. If an "emergency" is declared then EP&BC will escalate the activation of the LRF as per Level 3 requirements.

<u>Step 6 – Post incident activities:</u> Effectively the recovery phase, post incident activities will be dependent on the severity of the event. It is likely that even a relatively minor event will require recovery actions of some description, the responses to and responsibilities for which are well rehearsed and understood and do not need to be part of this MoU. However, as a result of the increased use of sand bags and other temporary flood defences it is likely that greater coordination will be required between the relevant District Council(s), the Environment Agency and LCC with regard to collection, assessment for contamination and disposal; this will be carried out under the umbrella of the coordination group set up at Step 5.

The coordination group, under the guidance of Emergency Planning, will stand down by mutual agreement at an appropriate time after the event.

<u>Step 7 – Review:</u> It is good practice to review a response plan following an event, and this MoU is no exception. Therefore, immediately following "Step 6 - Postincident Activities", the opportunity should be taken by the coordination group led by Emergency Planning to carry out a 'hot' review of the MoU and appendices. Furthermore, the MoU must be reviewed and updated as and when required following any relevant changes, such as changes to resources, signatories' internal processes and key contacts; any such changes must be notified to the LCC signatory as soon as practicably possible. Unless it is implemented in the meantime, the MoU will be routinely reviewed every three years, with LCC's flood risk team leading the review.

Furthermore, it must be reviewed and updated as and when required following any relevant changes, such as changes to resources, signatories' internal processes and key contacts.

6. Resources

A list of resources which are potentially at the disposal of each signatory is available at Appendix B.

It is clear that at any one time the resources available to LCC and the relevant District Council(s) will be dependent on a number of factors, including but not limited to:

- The amount of time available to prepare and mobilise for the event e.g. timely and accurate weather forecasts, Flood Advisory Service notifications, EA Flood Alerts/Warnings;
- Other operational requirements, for example Winter Service (gritting);
- Availability of staff during public holidays, weekends, out of hours etc.;
- Equipment and materials availability, for example temporary flood defences (sand bags and the like).

7. Communications

Each signatory will communicate with the coordination group set up at Step 5 via its representative on the group.

Members of the public will be signposted to either LCC's Customer Services Centre for non-urgent reports of flooding or to 999/112 to seek assistance in instances of a threat to life. However, attention is drawn to the First Point of Contact Principles, attached at Appendix E; although this document is currently under review by LCC the principles contained therein are still valid.

8. Ownership of the MoU

LCC is the owner of this MoU, and for the purposes of General Data Protection Regulations is the Data Controller. LCC will be responsible for taking every reasonable step to ensure that personal data is accurate, having regard to the purposes for which it is processed, and any inaccuracies will be erased or rectified without delay. The support of the signatories is required to ensure any personal data is accurate.

9. Commencement and Termination

This MoU will come into effect on the date of the last signature.

Any signatory to this MoU may terminate their support with a notice period of three months. The notice period will allow all signatories to review the MoU and consider changes that could accommodate the reasonable requirements of the signatory giving notice to terminate.

10. Signatures

 for Lincolnshire County Council
 for XXXX District/Borough/City Council

Dated _/_/___

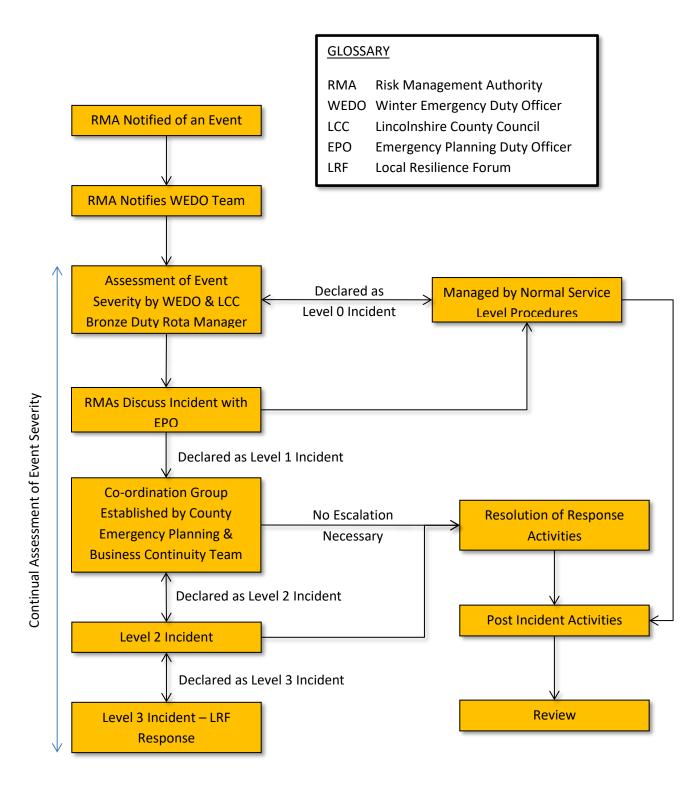
11. List of Appendices

- Appendix A: Incident Escalation
- Appendix B: Partner resources
- Appendix C: LCC 'Confirm' notifications
- Appendix D: Incident Classification System
- Appendix E: First Point of Contact Principles
- Appendix F: Key partner contacts (sensitive, internal use only)

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LOCAL FLOODING LCC & DISTRICTS

APPENDIX A - INCIDENT ESCALATION



EVENT ESCALATION

LOCAL FLOODING LCC & DISTRICTS

APPENDIX B – PARTNER RESOURCES

LINCOLNSHIRE COUNTY COUNCIL

LCC emergency resources primarily consist of:

- 4 x two man mobile gangs (Incident Support Units) with the ability to sign, guard or close roads and some capability to deploy sandbags;
- Depending on sufficient notice and other operational requirements, up to 200 operatives and appropriate vehicles and plant can be called upon depending on the nature and severity of the emergency incident;
- up to 6 gully tankers during daytime, 2 of which may be available out of normal working hours. Currently there are no wet tips available for tankers to empty within Lincolnshire.

LCC will maintain a total stock of 10,000 sandbags and sand to fill them, equally distributed between the four highways depots (Grantham, Horncastle, Sturton and Boston). ****CHECK****

In anticipation of small-scale local need each depot will maintain a stock of fifty pre-filled sandbags. Pre-filling of additional sandbags will be undertaken in the event of severe weather forecasts predicting high likelihood of impacts.

** TO BE COMPLETED BY ALL SIGNATORIES**

LOCAL FLOODING LCC & DISTRICTS

APPENDIX C – 'CONFIRM' NOTIFICATION

From: Confirm Live Task Processor LINCS_Production_TaskProcessor@ondemand.confirm.co.uk

Sent: 05 March 2021 10:13

To: FloodRisk

Subject: LLFA Risk to Life/Property Notification - Enquiry 391083

The following incident has been reported to Lincolnshire County Council under its responsibility as Lead Local Flood Authority. This has been identified as a potential Risk to Life/Property. Please see below details of the incident.

Enquiry number: 391083 Reported on: 05/03/2021 Location: BECK LANE, Ingoldmells Rural ED, Nearest road to the pin placed on the map (automatically generated by Bing Maps): The Methodist Church Beck Lane, Welton le Marsh, PE23 5SZ

Nearest postcode to the pin placed on the map (automatically generated): PE23 5SY (54m away)

Description: Flowing water from ground flooding road, coming out of the ground and chapel retaining walls

Eastings: 546952.00 Northings: 368845.00

For any queries please contact floodrisk@lincolnshire.gov.uk

LOCAL FLOODING LCC & DISTRICTS APPENDIX D – INCIDENT CLASSIFICATION SYSTEM

HFA Incident Level	IMPACT	H	HFA ACTION
Level 0 Normal Area HFA response to an incident	An incident that does not cause serious threat to the community, property or the environment and does not seriously affect the functioning of the community or HFA.	The incident is managed via normal service level procedures.	l procedures.
LEVEL 1 An incident affecting one HFA Network	An incident that cannot be managed though the normal service level procedures and will require additional HFA resources to deal with it, which will be coordinated via a HFA Network Operations Room.	The Network Resilience Manager (or their deputy) req provide a co-ordinated response to the incident. The Bronze duty officer contacts the relevant Local Hi man the operations room and clearly define what resp Network Operations Rooms within the affected area at investigations, working alongside Network Resilience.	The Network Resilience Manager (or their deputy) requests support from Bronze Duty Rota Manager to provide a co-ordinated response to the incident. The Bronze duty officer contacts the relevant Local Highways Manager to clarify agreement, open and man the operations room and clearly define what responsibilities will be transferred to them. One or two Network Operations Rooms within the affected area are then opened to help manage the response and investigations, working alongside Network Resilience.
		The decision for escalation to a Level 2 within the Manager, a representative from Delivery and one fro Manager feels it to be necessary to escalate, direct colbelow, in the following order, dependant on availability:	The decision for escalation to a Level 2 within the IRP should be between the Network Resilience Manager, a representative from Delivery and one from Commissioning. When the Network Resilience Manager feels it to be necessary to escalate, direct contact should be made to one of the representatives below, in the following order, dependant on availability:
		Delivery:	Commissioning:
		Chief Operating Officer	Infrastructure Commissioner
LEVEL 2	Multiple HFA Network Operations Rooms are opened	Highway Network Manager	Construction Commissioner
An incident affecting multiple HFA Networks	In response to the incident and a coordinated service will need to be created to manage the resource due to	Highway Asset Manager	Alliance Works Contract Manager
	severity of the event.	Network Resilience Manager will demonstrate which should be evidenced.	Network Resilience Manager will demonstrate a trigger point for the liaison with these representatives which should be evidenced.
		Once agreement for escalation to Level 2, the County Operations Room is resource from the service is available at the discretion of the representatives.	Once agreement for escalation to Level 2, the County Operations Room is opened within the BMU and resource from the service is available at the discretion of the representatives.
		The Network Resilience team will continue to ma the general operations and keeping an overarch of resilience.	The Network Resilience team will continue to maintain normal network resilience functions by coordinating the general operations and keeping an overarching viewpoint to monitor what the county needs in terms of resilience.
LEVEL 3 Emergency services declare a major incident	Emergency services declare a major incident which requires a LRF Response through strategic and/or tactical co-ordinating groups.	Requires HFA representation at strategic and/or tactical co-ordinating groups. Will require support from all affected departments within LCC, with the LRF tal	Requires HFA representation at strategic and/or tactical co-ordinating groups. Will require support from all affected departments within LCC, with the LRF taking a leading role.

Table 3-1: The HFA Incident Classification System

LOCAL FLOODING LCC & DISTRICTS

APPENDIX E – FIRST POINT OF CONTACT PRINCIPLES

LINCOLNSHIRE FLOOD RISK AND DRAINAGE MANAGEMENT PARTNERSHIP

Guiding Principles Note 11

"First Point of Contact" & Partner Contact Lists

Purpose of this document:

To provide clarity on the "first point of contact" details and approach to the public and partner organisations in "peacetime" and in emergency flooding situations.

Contents:

Page 2	"First point of contact" basic principles for all partner
	organisations

- Appendix A LCC CSC call handling flow chart
- Appendix B Partner contact telephone numbers for public and partner use
- Appendix C Partner contact email addresses for public and partner use
- Appendix D Partner contact telephone numbers for PARTNER USE ONLY

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"First Point of Contact" basic principles

Members of the public, businesses and industry (i.e. general public) can be very unclear which organisation to contact about flooding issues both during a flooding event and in non flooding situations. Lincolnshire County Council as Lead Local Flood Authority and partners are currently informing/educating the public, elected representatives, businesses and industries regarding these responsibilities through day job activities, online presence, local events, and contact with customer service teams and reception desks. This is an ongoing process.

When a member of the general public makes first contact with any partner organisation regarding a flood risk and/or drainage issue, they should identify the correct Risk Management Authority (RMA) e.g see Appendix A for LCC process flow by way of example; and re-direct the customer to the appropriate contact point.

Initially the partner organisation taking the call should aim to "hot transfer" the call to the relevant RMA customer contact number (see Appendix B for current list of contacts). However; if this is not possible the partner organisation should capture the relevant caller information, (e.g. in LCC's case this will be by using the Customer Relationship Management system), and then immediately send an e-mail to the relevant RMA customer e-mail account (see appendix C for current list of contacts).

"Sorry but this is not our responsibility and you should contact......" is not acceptable in any circumstances. Any flooding or drainage problem in Lincolnshire requires a supportive partnership culture and approach.

Where a "first point contact" is needed by one RMA to another RMA (particularly in pre, during and post a flood event, or in "out of hours" situations), they will be able to make direct contact with any partner organisation and not be treated as a member of the general public. This will be achieved by using the RMA contact list shown in Appendix D.

Where a RMA is aware that the flooding threshold requiring the LLFA to conduct a formal investigation has been reached, it should immediately notify the LLFA through the county customer services team by tel 01522 782070 and provide the necessary details.

If any further clarification or information is needed please contact:

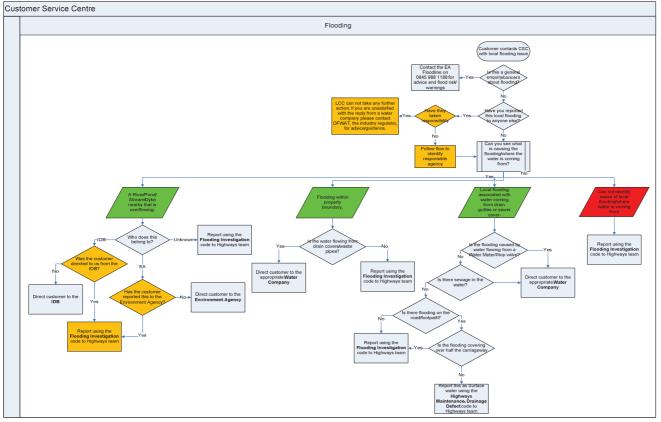
Mark Fisher 07875 348701

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APPENDIX B

Partner contact telephone numbers for public and partner use

Organisation	Contact Number
Ancholme IDB	01302 342055
Anglian Water	0845 7 145 145
Black Sluice IDB	01205 821440
Boston Borough Council	01205 314 200
City of Lincoln Council	01522 881188
East Lindsey District Council	01507 601111
Environment Agency	03708 506 506 or 0845 988 1188
King's Lynn IDB	01553 819600
Lincolnshire County Council CSC (Highways & LLFA)	01522 782070 or 01522 782189 (LCC Non Emergency tel no when in use)
Lincolnshire County Council Joint Emergency Planning Service (JEMS)	01522 582220
Lindsey Marsh DB	01507 328095
North East Lindsey DB	01469 588991
North Kesteven District Council	01529 414 155
North Level IDB	01733 270333
Scunthorpe and Gainsborough Water Management Board	01302 342055 (Clerks) 01427 872715 (Engineers)
Severn Trent Water	0800 783 4444
South Holland District Council	01775 761161
South Holland IDB	01553 819600
South Kesteven District Council	01476 406 080
Trent Valley Internal Drainage Board	01636 704371
Upper Witham IDB	01522 697123
Welland and Deepings IDB	01775 725861
West Lindsey District Council	01427 676 676
Witham First District IDB	01522 697123
Witham Fourth District IDB	01205 310099
Witham Third IDB	01522 697123

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APPENDIX C

Partner contact email addresses for public and partner use

E-mail Organisation Ancholme IDB info@shiregroup-idbs.gov.uk Anglian Water Use on-line email form at Anglian Water Black Sluice IDB duty.officer@blacksluiceidb.gov.uk **Boston Borough Council** info@boston.gov.uk customer.services@lincoln.gov.uk City of Lincoln Council East Lindsey District Council customerservices@e-lindsey.gov.uk **Environment Agency** enquiries@environment-agency.gov.uk King's Lynn IDB info@wlma.org.uk Lincolnshire County Council Customer Services@lincolnshire.gov.uk Lincolnshire County Council Joint Emergency Jems@lincoln.fire-uk.org Planning Service (JEMS) Lindsey Marsh DB dutyofficer@lmdb.co.uk North East Lindsey DB trevor@northeastlindsey-idb.org.uk North Kesteven District Council customer services@n-kesteven.gov.uk North Level IDB dutyofficer@northlevelidb.org Scunthorpe and Gainsborough Water info@shiregroup-idbs.gov.uk / dutyofficer@lmdb.co.uk Management Board Severn Trent Water Use on-line email form at Severn Trent South Holland District Council info@sholland.gov.uk South Holland IDB info@wlma.org.uk South Kesteven District Council ditches@southkesteven.gov.uk Trent Valley IDB dutyofficer@lmdb.co.uk Upper Witham IDB admin@upperwitham-idb.gov.uk Welland and Deepings IDB info@wellandidb.org.uk West Lindsey District Council customer.services@west-lindsey.gov.uk Witham First District IDB janefroggatt@witham-1st-idb.gov.uk Witham Fourth District IDB drainage@w4idb.co.uk Witham Third IDB janefroggatt@witham-3rd-idb.gov.uk

APPENDIX D

Partner contact telephone numbers for **PARTNER USE ONLY**

Organisation	Office Hours Contact Number	Out of Hours Contact Number
Ancholme IDB	01302 342055	07885 890220
Anglian Water	0845 7 145 145	0845 7 145 145
Black Sluice IDB	01205 821440	01205 821440
Boston Borough Council	01205 314 200	01205 360330
City of Lincoln Council	01522 873300	01522 790974 / 07799 470185
East Lindsey District Council	01507 601111	01507 601111
Environment Agency	0845 988 1188 Gen Enq & Info 07796 237303 Emergencies Only	07796 237303 FW Duty Officer 24/7 01522 512677 Incident Room Open
King's Lynn IDB	01553 819600	07881 581521
Lincolnshire County Council CSC	01522 782070	01522 553020 Highways & LLFA Duty Officer
Lincolnshire County Council Joint Emergency Planning Service (JEMS)	01522 582220	01522 888111 via FRS Control – ask for EP Duty Officer.
Lindsey Marsh DB	01507 328095	01507 328095
North East Lindsey DB	01469 588991	01652 653490 / 07764 462246
North Kesteven District Council	01529 414 155	01529 308308 / 01522 699650
North Level IDB	01733 270333	01775 766458 / 07730 309872 / 07894 684274
Scunthorpe and Gainsborough Water Management Board	01302 342055 (Clerks) 01427 872715 (Engineers)	07885 890220 (Clerks) 01427 872715 (Engineers)
Severn Trent Water	0800 783 4444	0800 783 4444
South Holland District Council	01775 761161	01775 761161
South Holland IDB	01553 819600	07881 581521
South Kesteven District Council	01476 406 080	01476 590044
Trent Valley Internal Drainage Board	01636 704371	01636 704371
Upper Witham IDB	01522 697123	01529 410900 / 07711 458056
Welland and Deepings IDB	01775 725861	07944 883577 / 07950 035678
West Lindsey District Council	01427 676 676 Page 6 of 7 Page 69	01427 613960
	. 490 00	

Organisation	Office Hours Contact Number	Out of Hours Contact Number
Witham First District IDB	01522 697123	07545 786500
Witham Fourth District IDB	01205 310099	01205 310099
Witham Third IDB	01522 697123	07545 786500

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	Open Report on behalf of the Environment Agency
Report to:	Flood and Water Management Scrutiny Committee
Date:	21 February 2022
Subject:	Environment Agency Update

e . .

Summary:

This is an update to the Flood and Water Management Scrutiny Committee on Environment Agency activities in Lincolnshire, including progress on key capital schemes.

Recommendation(s):

The Flood and Water Management Scrutiny Committee is invited to consider and comment on this report.

1 Saltfleet to Gibraltar Point Beach Management

Start Date	April 2020
End Date	August 2021
Total project cost	£52,717,000
Partnership Funding required?	Ν
Total Partnership Funding	£0
Who is contributing?	Environment Agency
Households better protected	28,056

Background:

Beach re-nourishment scheme protecting approximately 20,000 houses, 35,000ha prime agricultural land and 30,000 static caravans as well as major tourism developments between Mablethorpe and Skegness.

Update since last meeting:

Following on from a successful nourishment campaign the team have been scoping projects under the additional works programme. This includes the design for sealing two walkthroughs at Winthorpe that run under the defence, repairs to the Environment Agency (EA) owned access track at Wolla Bank, repairs to the splash deck between Huttoft car terrace (north) to Sandilands and SI works on the beach at various locations to aid the Residual Life project (assessing the condition of the existing defence). Winthorpe construction works were completed at the end of November and the contractors are currently undertaking repairs to the track at Wolla Bank, the remaining projects are still in the design phase, but it is anticipated that these will be included this financial year.

Start Date	March 2022
End Date	June 2025
Total project cost	£850,000
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	88

2 Middle River Ancholme - catchment management

Background:

This project aims to deliver the policies within the Ancholme Catchment Flood Management Plan (CFMP) and builds on previous River Ancholme strategy from early 2000s. Previous projects tried unsuccessfully to develop formal flood storage areas, but these were found to be unaffordable under the Partnership Funding policy.

This new approach aims to build a partnership with the landowners and Ancholme Internal Drainage Board (IDB) to develop a more affordable, sustainable and flood resilient approach. Including, by identify where water could be stored within the catchment and then utilising the existing drainage infrastructure more effectively.

This will mean apportioning the available economic benefits to justify a range of investments to existing Main River, surface water and land drainage networks, and potentially adjust the governance to some of the watercourses.

This collaboration will also involve the newly formed Ancholme Catchment Partnership and consider the need for water storage for both public/industry water supply and irrigation purposes.

The comprehensive approach will require a long development period with envisage phases of changes/improvements, that take opportunities of the emerging changes to

farming subsidies. The project complements the catchment modelling and forward planning being undertaken by Ancholme IDB.

Update since last meeting:

The Strategic Outline case has been drafted, but not yet approved. The approach is being developed in collaboration with Ancholme IDB and the Ancholme Catchment Partnership (led by Lincolnshire Wildlife Trust).

This collaborative approach allows a more holistic and sustainable approach to be implemented. Benefit apportionment work has been started to optimise the required investment by all Risk Management Authorities (RMAs). The aim remains to complete the outline business case around the end of 2023, with detailed design during 2024 and an initial programme of works up to 2027.

Start Date	June 2021
End Date	March 2023
Total project cost	£3,174,000
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	47

3 Wainfleet Flood Resilience Scheme

Background:

In June 2019, two and a half times the month's average rainfall fell in 3 days in the Steeping catchment. This led to overtopping of the defences and ultimately a breach in the right bank of the Wainfleet Relief Channel on 12 June 2019. 75 homes and businesses were flooded, as well as 2000 acres of agricultural land. In response to this the Steeping River Steering Group was set up and published a Catchment Action Plan which was recently refreshed and published in May 2021. This contains an action to increase the resilience of the raised defences, which protect the western side of Wainfleet against overtopping and the effects of climate change. This capital project seeks to deliver this action.

Update since last meeting:

The project team is working to finalise the Strategic Outline Case (SOC) by the end of February 2022. A scope of work to undertake an assessment of the economic benefits in the catchment is being finalised, this will support the apportionment of benefits for other schemes to be delivered by other RMAs. Initial discussions have been held with Lindsey Marsh Drainage Board to consider the options available for increasing the resilience of the defences. Further engagement on this will also be held with other Steering Group partners and the community in due course.

In addition to the capital scheme development, phase 2 of the dredging programme has commenced on the Wainfleet Relief Channel. Works have also been completed to replace the tidal doors at the Borough Sluice Outfall near Gibraltar Point.

Start Date	July 2005
End Date	June 2019
Total project cost	£9,914,000
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	1

4 Humber – Donna Nook

Background:

Donna Nook is a managed realignment site on the outer south of the Humber Estuary which has opened up 106ha of land to tidal inundation and the adaptation of the site to intertidal habitat. The project reduces the risk of flooding to communities, businesses and agricultural land in the area and has helped reproduce valuable intertidal habitats to account for direct and indirect losses in the Humber Estuary. The realignment provides many local benefits, including improved tidal defences from Saltfleet to Tetney that protect almost 1200 properties and over 13,000ha of agricultural land.

Update since last meeting:

The Environment Agency has now completed all outstanding construction activities at the site and demobilised for the last time. The Little Tern Islands are now managed by the Environment Agency's Mablethorpe Field Team and works to clear the scrub off the islands have been completed.

We continue to progress this year's monitoring activities and anticipate receipt of the comparison reports against the 2018 pre-breach data by the end of this financial year. This work is essential in understanding the realignment site's performance in compensating for lost habitat in the Outer South Humber Estuary and in assessing Water Framework Directive requirements.

5 Saltfleet to Gibraltar Point Enhancing Lincolnshire Coast

Start Date	August 2020
End Date	August 2035
Total project cost	£98,750,000
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	0

Background:

Enhancing Lincolnshire Coast project would be a significant investment from government and therefore needs to deliver the maximum returns for all partners and stakeholders, by 'doing the project right' and 'doing the right project'. Enhancing the Lincolnshire Coast project will be the phase of works that follows on from the nourishment, which is currently proposed until around 2040, and will evidence and deliver transformation of flood risk management infrastructure of the East Coast of Lincolnshire.

Update since last meeting:

A Collaborative Agreement has now been signed by the University of Lincoln, Lincolnshire County Council and Environment Agency. It is hoped that East Lindsey District Council will sign up to this Collaborate Agreement shortly. The first deliverable through this agreement will be a Climate Change Risk Assessment (CCRA) for the East Lindsey coast. This CCRA will be used to evidence and inform partners next steps including their local ambitions, with their associated necessary commitments, as we work together to achieve a sustainable future through resilient communities on the coast.

6 Boston Barrage/Barrier Works

Start Date	May 2014
End Date	July 2022
Total project cost	£148,494,844
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	14,256

Background:

The Boston Barrier scheme, once finished, will provide better protection to over 14,000 properties against tidal flooding and is deemed a 'National Priority Project' within the Environment Agency's Six Year Programme

Update since last meeting:

The North Bank quayside flood wall is now complete and in service. Construction work on elements of floodwall around the port wet dock and the approaches to Maud Foster Sluice to the east of the port are ongoing, along with final design work for the new Port of Boston Wet Dock gates structures. Contractors Bam Nuttall & Mott MacDonald Joint Venture (BMM JV) will next close the wet dock entrance to facilitate construction of these structures which will replace the existing ones overtopped considerably during the 2013 tidal surge.

The successful operation of the barrier for a surge tide in late 2021 is being reviewed to learn lessons and ensure that the assets and operating procedures are robust. We are also working with PoB staff to ensure that the future operating rules for the Wet Dock assets are mutually suitable and well documented.

Once installed and fully operational, the gates will better protect a further 524 properties from tidal flooding bringing the total homes and businesses in Boston being better protected by the scheme to more than 14,000.

Start Date	April 2022
End Date	March 2027
Total project cost	£161,405,601
Partnership Funding required?	N
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	8,171

7 Lower Witham Flood Resilience Project

Background:

In 1997 the Lower Witham Strategy recommended reinforcement of key embankments whilst allowing some areas to flood, in order to relieve the pressure on the system. Since then, 30km embankments have been reinforced, but repeated high flows have damaged more. Storage options have not been implemented, due to availability of suitable sites and difficulties in meeting HM Treasury funding rules of the time.

The works in the 2000s included the creation of Fiskerton Nature Reserve, as environmental mitigation. Now these types of works are seen as offering a real alternative to hard defences, providing room for flood water as well as having a lower carbon

footprint and enhancing the local environment. Flooding in 2019 has again highlighted the need to update the long-term plan to manage flood risk in the area.

With revised partnership funding rules, allowing more projects to proceed, and a new interest from landowners in providing public goods such as flood storage, it is hoped that the original vision can now be realised.

The Lower Witham is one of six river catchments within the East of England Fens that will come together under the Future Fens: Flood Risk Management programme. This work will contribute towards the ambitions for Climate Resilient Places within the National Flood & Coastal Erosion Risk Management Strategy where there is a specific measure focussed on the Fens.

It is anticipated that a significant capital investment programme will start on the ground in 2025, and in the meantime the Environment Agency's operational teams will continue to maintain and manage the flood risk assets where resources allow.

Update since last meeting:

Channel surveys of the Lower Witham main rivers and IDB pumping stations commenced on 4 January 2022. They are due to complete April 2022. Data is being collated and supplied by the EA to Arup. An inception meeting is planned for early February 2022.

Start Date	April 2021
End Date	March 2024
Total project cost	£1,734,000
Partnership Funding required?	Ν
Total Partnership Funding	£0
Who is contributing?	Environment Agency
Households better protected	2,018

8 Gibraltar Point to Freiston Shore System Sustain Project

Background:

The project looks at sustaining the primary line of defence of the Wash Frontage from Gibraltar Point to Freiston Shore. This project will look to repair the embankment and sustain the whole line back to its nominal standard of protection and service.

Update since last meeting:

The Strategic Outline Case [SOC] has been completed and awaiting sign off. The Scope of Works have been finalised following a review of the whole frontage, with works been broken into sections to allow focused cost analysis to be carried out. Following approval of

the SOC our framework suppliers will be engaged to begin design, costing and preparation of the Outline Business Case (OBC).

9 Lincoln Washlands control panels

Start Date	April 2019
End Date	March 2021
Total project cost	£2,137,777
Partnership Funding required?	Υ
Total Partnership Funding	£60,000
Who is contributing?	Environment Agency, Upper Witham IDB
Households better protected	1,969

Background:

No background information received.

Update since last meeting:

The works are complete and commissioned. Training of the Lincoln Washlands operations team and other incident roles is largely complete.

10 Lincoln Defences

Start Date	June 2018
End Date	March 2022
Total project cost	£6,548,000
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	1,842

Background:

Lincoln is located in a limestone ridge, through which the River Witham flows. A complex system of channels runs through the city, managed by several water level management structures. Key river channels within the City of Lincoln include the River Brant, the Fossdyke Canal, the Sincil Dyke, Boultham Catchwater and Great Gowts Drain. The City of Lincoln has suffered flooding on numerous occasions, most notably in 1947 and 1958.

Water levels are controlled by three sluices (namely Great Gowt Sluice, Stamp End Sluice and Bargate Sluice). The Lincoln Washlands and a system of linear flood defences comprising walls and embankments works in conjunction with the sluices to protect Lincoln from fluvial flooding. Flood defence assets are generally in good condition; however, a section of the defences along the Foss Bank was reported to be leaking through cracks / joints in the flood wall. Surveys carried out in 2017 also highlighted the fact that sections of the walls along the River Witham need repair work.

The electric components of the three sluices are near the end of their mechanical and electrical life and are unreliable. Good status of the defences is crucial to maintain the existing Standard of Protection in Lincoln and avoid flooding even in relatively moderate flood events.

Update since last meeting:

The construction phase for this project is complete, with some final pieces of tarmacking remaining to do and some "snagging".

11 Boston Haven Banks (downstream of barrier)

Start Date	January 2017
End Date	March 2021
Total project cost	£6,240,439
Partnership Funding required?	Υ
Total Partnership Funding	£700,000
Who is contributing?	Environment Agency, Lincolnshire County Council
Households better protected	913

Background:

A number of low spots exist along the Haven banks downstream of the proposed Barrier location. To keep pace with sea level rise and maintain the required standard of protection for Boston, these low spots and works to raise earth embankments to 6.50m AOD are required.

Programme of works to be undertaken over the current 6-year Medium Term Plan (MTP) in conjunction with the Barrier scheme, as described in the various phases of the Boston Combined Strategy.

Through partnership working with Lincolnshire County Council, this project has secured £1M of European funding. To ensure we deliver this project within the European timeframe we are aligning with the Boston Barrier project programme to utilise a more efficient delivery route through a design and build contract.

Update since last meeting:

Boston Haven Banks – works were completed in Autumn 2021 and the footpath was reopened. We are currently in the defect period with a few snags still to resolve, mostly around grass coverage on the banks which has not been ideal. A review will be carried out in spring to assess the lack of grass growth, which has been caused by a combination of bad timing with sowing/works taking place, and some of the works' site being a popular public right of way.

The Environment Agency are planning on taking on the maintenance in 2022.

Works have included replanting and propagating of the rare Boston Horsetail plant and the project has worked well with the Boston Borough Council and helped accommodate improvements to the Pilgrims Memorial.

Start Date	February 2021
End Date	September 2022
Total project cost	£4,774,791
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	900

12 Boston Upstream Tidal System Sustain Project

Background:

The geographical scope of the project is along the Witham Haven between the Boston Barrier and Grand Sluice (Grand Sluice refurb. being excluded). The objective of this commission is to sustain a revised standard of service of 5.5m AOD, improve the management of flood risk assets in the town of Boston and reduce the risk of an asset failure.

We are undertaking the following:

- 1. Review of the data: a desktop study of the existing asset data
- 2. Screening of the data and assessment of the robustness/ usability of data
- 3. Undertake gap analysis of existing data
- 4. Provide a report with recommendations, for asset inspection or further surveys as and if required to allow for the SOC to be written including options and costings
- 5. Prepare a plan for the next stage of the asset inspections. Provide programme, number of people and durations. 6. The next stage surveys will be added under a separate instruction before SOC stage.

Update since last meeting:

The project team is exploring ways of achieving an interim approval to enable Ground Investigation (GI) work to progress in advance of completing the Strategic Outline Case (SOC). The GI work will inform SoC and future work.

Start Date	March 2022
End Date	October 2026
Total project cost	£3,660,976
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	582

13 River Slea Flood Resilience Project

Background:

This project covers the River Slea main river which runs through the town of Sleaford to Cobblers Lock. In the east of the town the river splits to follow the Slea Navigation channel to the north and the original course of the Old River Slea to the south. The navigation follows the contours of the land, dropping the river level from around 13m above sea level in Sleaford, to around 3.5m above sea level via a series of historical locks (not all of which are operational). The Old River Slea follows a more natural course through the Slea valley before joining back with the navigation again at Cobblers Lock.

As a river heavily influenced by groundwater flows the Slea can suffer from low flows at times making abstractions for drinking water and irrigation a challenge. A flow augmentation scheme supports water levels in the river during dry periods.

Through the town itself, a series of movable structures maintain a water level for aesthetic reasons, although these do interfere with natural river processes, are a barrier to fish and eel migration and increase flood risk, which is why they have to open during high flows. These structures now require significant investment. Structures along the old navigation channel are also in a state of disrepair. With government funding to the EA dependent upon evidenced reductions in flood risk, securing sufficient funding to repair/replace assets with no flood risk benefit, is not possible.

Update since last meeting:

Work has begun on the hydrology method, hydraulic modelling, environmental and engagement plans for the project with the aim of options testing, identifying potential site constraints, issues, benefits and stakeholders. The Environment Agency has been invited to join a River Slea Partnership by North Kesteven District Council, who have also asked the Slea Navigation Trust and Anglian Water. This is seen as crucial to finding a way forward for a climate resilient, sustainable, low carbon future for the river that could be a real asset to the town and for the visitor economy.

14 NFM - Swaton Flood Resilience Scheme

Start Date	April 2018
End Date	March 2021
Total project cost	£965,000
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	24

Background:

Natural Flood Management R&D Scheme in the Swaton Eau catchment of the South Forty Foot Drain. Addressing regular flooding to the villages of Swaton, Threekingham and Spanby, where a conventional engineered flood scheme is not viable.

Update since last meeting:

The legal agreement has been issued to the Crown and project team awaiting signatures ready to start construction on the Manor and Grove Farm.

15 Crowland and Cowbit Washes (Welland Flood Banks) Refurbishment

Start Date	October 2021
End Date	March 2026
Total project cost	£6,670,965
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	663

Background:

The Crowland and Cowbit Washes (the Washes) are not performing as anticipated. The Cradge bank for the Crowland and Cowbit Washes needs refurbishment along with inlet syphons. The current focus of the study is to understand the area that benefits from the Washes. The Washes have not been utilised in recent years and the Welland system has been significantly altered since their construction. This project aims to provide a better representation of flood risk associated with the operation (or non-operation) of the Washes through modelling and mapping. We need to better understand how the Washes function, which communities' benefit from their existence, and whether any improvements can be made to utilise them more effectively and reduce flood risk. We also

need to better understand the implications of failure to store water in the Washes to define the benefit area. The number of properties currently benefitting is estimated at 663.

It is intended that this evidence base will be used in conjunction with that derived for Maxey Cut Banks to support development of an Initial Assessment that supports a strategic approach to continue maintain the standard of protection for Lower Welland catchment in line with the Welland CFMP recommendations.

Update since last meeting:

Initial climate change runs have identified that the hydraulic model has limitations that were not anticipated. Whilst the Washes are well represented now, the impacts of changing operation cannot be measured in other locations. Model improvements are being scoped to ensure that Maxey Cut levels can be understood in more detail to facilitate combining projects ahead of refresh next year.

16 FCERM in the Fens (L&N)

Start Date	August 2019
End Date	April 2021
Total project cost	£300,000
Partnership Funding required?	Ν
Total Partnership Funding	N/A
Who is contributing?	Environment Agency
Households better protected	0

Background:

Flood Risk Management (FRM) within Fenland and Lowland catchments is a key activity for Risk Management Authorities (RMAs) within the Environment Agency's Lincolnshire & Northamptonshire Area (LNA). This project will inform the evidence base used for LNA to deliver on the National FCERM objective:

"By 2025 the Environment Agency will work with farmers, land managers, internal drainage boards and other partners to develop a long term, adaptive plan for managing future flood risk in the Fens."

The project will be split into three separate strands of work:

- Production of a Guide to Sustainable Flood Risk Management in Fenland and Lowland catchments;
- Beneficiary Mapping including supply chain vulnerability;
- Carbon baselining of current flood risk management activities in Lincolnshire and Northamptonshire Fenland and Lowlands.

Update since last meeting:

Jacobs held a start-up meeting on 3 November 2021. Data is being collated and supplied to Jacobs by the EA to allow the study to progress. Work has started on reviewing data received and conducting searches for data held externally to the EA. A business case update report is being prepared to allow the inclusion of further elements in the project such as supply chain and critical infrastructure vulnerability, heritage and landscape aspects of the Fens and interpretation of carbon baselining work.

17 Conclusion

Members are asked to note the progress of various key capital schemes reported throughout this document.

18 Consultation

a) Risks and Impact Analysis N/A

19 Background Papers

No background papers within Section 100D of the Local Government Act 1972 were used in the preparation of this report.

This report was written by Morgan Wray, Flood Risk Manager at Environment Agency, who can be contacted on <u>morgan.wray@environment-agency.gov.uk</u>.

Agenda Item 12



Open Report on behalf of Andrew Crookham, Executive Director - Resources

Report to:	Flood and Water Management Scrutiny Committee
Date:	21 February 2022
Subject:	Flood and Water Management Scrutiny Committee Work Programme

Summary:

This item enables the Committee to consider and comment on the content of its work programme to ensure that scrutiny activity is focused where it can be of greatest benefit. Members are encouraged to highlight items that could be included for consideration in the work programme.

The work programme will be reviewed at each meeting of the Committee to ensure that its contents are still relevant and will add value to the work of the Council and its partners.

Actions Required:

The Committee is invited to: -

- (1) review, consider and comment on the work programme; and,
- (2) highlight for discussion any additional scrutiny activity which could be included for consideration in the work programme; and note the terms of reference of the Flood and Water Management Scrutiny Committee, as agreed by the County Council.

1. Background

Overview and Scrutiny should be positive, constructive, independent, fair and open. The scrutiny process should be challenging, as its aim is to identify areas for improvement. Scrutiny activity should be targeted, focused and timely and include issues of corporate and local importance, where scrutiny activity can influence and add value.

Overview and scrutiny committees should not, as a general rule, involve themselves in relatively minor matters or individual cases, particularly where there are other processes, which can handle these issues more effectively.

All members of overview and scrutiny committees are encouraged to bring forward important items of community interest to the committee whilst recognising that not all items will be taken up depending on available resource.

2. Work Programme

	21 FEBRUARY 2022		
	Item	Contributor	
1.	Development Fund – Drainage Investigations and Flood Repairs - Progress on programme delivery	Matthew Harrison, Flood Risk Manager	
2.	Lincolnshire Homeowner Property Flood Resilience Assistance Scheme update	Matthew Harrison, Flood Risk Manager	
3.	Riparian Watercourse Project – Progress and Next Steps	Ryan Davies, Assistant Flood Risk Officer	
4.	Floods Team Update (inc. S19 Investigations)	Matthew Harrison, Flood Risk Manager	
5.	Memorandum of Understanding with Districts on incident response and provision of temporary resilience measures- Update	David Hickman, Head of Environment & Emergency Planning Team	
6.	Environment Agency Update	Morgan Wray, Area Flood and Coastal Risk Manager, Environment Agency	
7.	Anglian Water Update	Jonathan Glerum, Anglian Water	

	23 MAY 2022		
Item		Contributor	
1.	Flood and Coastal Resilience and Innovation Programme - submission of outline business case feedback on decision by the Executive on 5 April 2022	David Hickman, Head of Environment Matthew Harrison, Flood Risk Manager	
2.	Digby Flood Alleviation Scheme – Report on outcomes from the completion of the scheme	Matthew Harrison, Flood Risk Manager	
3.	Coastal Adaptation Strategy	David Hickman, Head of Environment	
4.	Investigations undertaken under Section 19 of the Flood and Water Management Act 2010	Matthew Harrison, Flood Risk Manager	
5.	Environment Agency Update	Morgan Wray, Area Flood and Coastal Risk Manager, Environment Agency	
6.	Anglian Water Update	Jonathan Glerum, Anglian Water	

3. Items to be Considered/Programmed

- Natural Flood Management
- South Lincolnshire Waste Partnership Progress Update Water Resources East

4. Conclusion

Members of the Committee are invited to review, consider and comment on the work programme and highlight for discussion any additional scrutiny activity which could be included for consideration in the work programme.

Consideration should be given to the items included in the work programme as well as any 'items to be programmed' that may be listed.

5. Consultation

a) Risks and Impact Analysis

Not Applicable

6. Background Papers

No background papers within Section 100D of the Local Government Act 1972 were used in the preparation of this report.

This report was written by Kiara Chatziioannou, Scrutiny Officer, who can be contacted on 07500 571868 or by e-mail at <u>kiara.chatziioannou@lincolnshire.gov.uk</u>.

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