



County Offices
Newland
Lincoln
LN1 1YL

1 February 2019

Flood and Water Management Scrutiny Committee

A meeting of the Flood and Water Management Scrutiny Committee will be held on **Monday, 11 February 2019 at 10.00 am in Committee Room One, County Offices, Newland, Lincoln LN1 1YL** for the transaction of the business set out on the attached Agenda.

Yours sincerely

A handwritten signature in cursive script that reads 'Debbie Barnes'.

Debbie Barnes OBE
Head of Paid Service

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

Councillors B Adams (Chairman), P A Skinner (Vice-Chairman), W J Aron, T R Ashton, Mrs A M Austin, Mrs W Bowkett, B M Dobson, Mrs C J Lawton, C R Oxby, C E Reid and R A Renshaw

Other Voting Members

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

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE AGENDA
MONDAY, 11 FEBRUARY 2019**

Item	Title	Pages
1	Apologies for Absence/Replacement Members	
2	Declaration of Councillors Interests	
3	Minutes of the meeting held on 26 November 2018	5 - 12
4	Announcements by the Chairman, Executive Councillors and Lead Officers	Verbal Report
5	Update on Sustainable Drainage and Design and Evaluation Guide <i>(To receive a verbal update from Warren Peppard (Flood Risk & Development Manager), concerning the Sustainable Drainage and Design Evaluation Guide)</i>	Verbal Report
6	Environment Agency Update <i>(To receive a report from Deborah Campbell (Environment Agency), which invites the Committee to consider and comment on the activities of the Environment Agency including progress of key capital schemes)</i>	13 - 20
7	Lincolnshire Operations Revenue Maintenance Programme <i>(To receive a report from Peter Riley (Environment Agency), which outlines the approach of the Environment Agency to asset management and explains the Annual revenue maintenance programme for Flood and Coastal Risk Management (FCRM) assets in Lincolnshire)</i>	21 - 26
8	Boston Barrier Update <i>(To receive a presentation from Deborah Campbell (Environment Agency), which updates the Committee on the progress of the Boston Barrier)</i>	
9	Wrangle Bank Flood Defence Project <i>(To receive a presentation from Peter Bateson (Witham Fourth District IBD), which provides the Committee with an update on the completion of the Wrangle Bank flood defence project)</i>	
10	Local Resilience Forum - Resilience Communities Project Update <i>To receive a presentation from Steve Eason Harris (Emergency Planning Officer) and Ian Reed (Emergency Planning & Business Continuity Manager), which provides the Committee with an overview of the LSF Resilience Communities project)</i>	

- 11 To report progress on the investigations made in the County under Section 19 of the Flood and Water Management Act 2010 (FWMA)** 27 - 38
(To receive a report from Paul Brookes (Flood Risk Manager), which provides the Committee on the latest position of all current investigations in the County under Section 19 of the Flood and Water Management Act 2010)
- 12 Flood and Water Management Scrutiny Committee Work Programme** 39 - 44
(To receive a report from Daniel Steel (Scrutiny Officer), which invites the Committee to consider its Work Programme for the coming year)

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Please note: for more information about any of the following please contact the Democratic Services Officer responsible for servicing this meeting

- Business of the meeting
- Any special arrangements
- Copies of reports

Contact details set out above.

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www.lincolnshire.gov.uk/committeerecords



FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE 26 NOVEMBER 2018

PRESENT: COUNCILLOR B ADAMS (CHAIRMAN)

Councillors P A Skinner (Vice-Chairman), W J Aron, T R Ashton, Mrs A M Austin, B M Dobson, Mrs C J Lawton, C R Oxby, C E Reid and R A Renshaw.

District Councillors R Austin (Boston Borough Council), P Vaughan (City of Lincoln Council), Mrs F M Martin MBE (East Lindsey District Council), I Carrington (North Kesteven District Council), M D Seymour (South Holland District Council), B Russell (South Kesteven District Council) and I G Fleetwood (West Lindsey District Council).

Councillors C J Davie and E J Poll (Executive Councillor Commercial and Environmental Management) attended the meeting as observers.

Officers in attendance:-

Paul Brookes (County Flood Risk Manager), Deborah Campbell (Environment Agency), Katrina Cope (Senior Democratic Services Officer), David Hickman (Growth & Environment Commissioner), Warren Peppard (Flood Risk & Development Manager) and Daniel Steel (Scrutiny Officer).

46 APOLOGIES FOR ABSENCE/REPLACEMENT MEMBERS

An apology for absence was received from Councillor Mrs W Bowkett.

An apology was also received from Jonathan Glerum (Anglian Water).

47 DECLARATIONS OF COUNCILLORS INTEREST

No declaration of members' interest was received at this stage of the meeting.

48 MINUTES OF THE FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE HELD ON 17 SEPTEMBER 2018

RESOLVED

That the minutes of the Flood and Drainage Management Scrutiny Committee meeting held on 17 September 2018, be agreed and signed by the Chairman as a correct record.

49 ANNOUNCEMENTS BY THE CHAIRMAN, EXECUTIVE COUNCILLORS AND LEAD OFFICERS

No announcements were received.

50 ENVIRONMENT AGENCY UPDATE

Consideration was given to a report from the Environment Agency, which provided an update on the Environment Agency activities, including progress made on key schemes.

Deborah Campbell from the Environment Agency advised the Committee of the following issues:-

- Boston Barrier – The Committee was advised that the Boston District Fishing Association would soon be locating to the completed facility downstream of the barrier location. Piling works were underway; and fabrication of the barrier was now complete. The Committee were invited to view what was happening with the Boston Barrier via twitter, or to visit the Boston Hub;
- Boston Haven Banks – It was reported that through partnership working with the County Council the project had secured £1m of European funding for works to raise a number of low spots along the Haven Banks, which in conjunction with the barrier would help reduce the risk of flooding to the centre of Boston. Confirmation was also given that a legal agreement between the County Council and the Environment Agency had been signed and the Committee was advised that the contract was expected to start in June 2019;
- Saltfleet to Gibraltar Point Strategy Review – It was reported that following the 2018 flood risk management options consultation, work was ongoing to finalise the two preferred flood management options. It was highlighted that one of the options was a significant step change from an economic point of view, with the building of hard rock structures on the beach to hold the sand for longer. It was highlighted that currently between £5m - £7m was spent annually on the flood management option; under the hard structures proposal, the Committee was advised that the cost would be between £60m and £70m in the initial stages, but with lower annual maintenance costs subsequently. It was highlighted further that the proposal was currently being considered by Executive Directors and the Treasury to see if they were happy with the option, prior to consultation; and
- Black Sluice Catchment Works – The Committee was advised that the Black Sluice Pumping Station in Boston was to be decommissioned. The Committee was advised that work was ongoing with Heritage Lincolnshire to identify possible alternative uses for the building. It was noted that the gravity sluices would continue to be used as the primary means to reduce high flows in the South Forty Foot Drain.

A short discussion ensued, from which the following points were raised:-

- What measures were in place to ensure that rabbit and badger holes were dealt with early? The Committee was advised that there was a National Inspection Programme, which allowed for all assets to be inspected every six

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
26 NOVEMBER 2018**

months. It was also highlighted that if any problems were identified members of the public could report them;

- Horncastle Improvements - A question was asked whether all the outstanding issues concerning the Horncastle Flood Alleviation Scheme had been sorted. The Committee was advised that the contractual element of the scheme was still progressing. (It was highlighted that this type of issue could take a significant time to complete). The Committee was advised that no new information was currently available relating to the progress of the landowners issues. This would be reported back to the Committee at a later date; and
- Clarification was sought regarding the cost of the flood management structure option. The Committee was advised that the cost of the material (sand) was currently £7m each year; however, the proposal for rock structures on the beach to hold the sand longer in place longer would result in investment upfront of around £60 to £70m. The proposal would therefore be an invest to save option. Clarification was also given that there would still be sand on the beaches.

RESOLVED

That the Environment Agency Update report be received.

51 SUSTAINABLE DRAINAGE DESIGN & EVALUATION GUIDE

The Committee gave consideration to a report from Warren Peppard, Flood Risk & Development Manager, which provided an update on the document entitled 'Sustainable Drainage Design and Evaluation Guide'.

The report detailed the consequences of the Ministerial Statement in December 2014 and subsequent legislation which required that major developments should incorporate Sustainable Urban Drainage Systems (SuDS) and that the systems used should take into account advice from the Lead Local Flood Authority (LLFA).

It was highlighted that to reflect the LLFA's new role as both a consultee for surface water drainage, and as an advisor for SuDS, the County Council had over the last few years developed a number of local guidance documents.

Details of the three guidance documents were shown on page 22 of the report, these were:-

- Lincolnshire Development Roads and Sustainable Drainage Design Approach;
- Development Road and Sustainable Drainage Specification and Construction; and
- Sustainable Drainage Design & Evaluation Guide.

The Committee was advised that the Flood Risk & Development Manager was currently promoting the latter document with local planning authorities in Lincolnshire. It was noted that the document was being promoted as a local guidance document, which provided the development industry and all key stakeholders with a concise guide to SuDS best practice in Lincolnshire.

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
26 NOVEMBER 2018**

During a short discussion, the Committee raised the following points:-

- Some members extended their thanks to the Flood Risk & Development Manager for the guide; as it was felt that it was an important tool for new developers and others to understand what was required;
- A request was made for a training module to be created in readiness for the expected new planning committee members following the election. It was highlighted that the module could either be delivered by the County Council, or prepared for District Councils to use. Committee members felt that a copy of the document should be circulated to all members of the Committee. Officers advised that meetings were held regularly with district council counterparts; and that open invitations had been extended to district councils for briefing sessions; and that this offer would be reinforced; and
- One member enquired as to when the documents would be published on the website. The Committee was advised that the first two documents were already on the website and that the design and evaluation guide would be available in the near future.

RESOLVED

1. That the update on the document entitled 'Sustainable Drainage and Design Evaluation Guide' be received.
2. That an update on the Sustainable Drainage and Design Evaluation Guide remain as a standing item on the agenda going forward.

52 BULLDOG BANK

Consideration was given to a report from the Environment Agency concerning Bulldog Bank.

The Growth and Environment Commissioner advised the Committee that in order to adapt to changing circumstances, Shoreline Management Plans (SMPs) needed to be kept valid. It was highlighted that there were various reasons which would justify a change to a SMP, which included, a severe event which had made an element of the existing SMP policy or action plan untenable.

Details relating to the background and the current situation relating to Bulldog Bank were shown on pages 23 and 24 of the report. The Committee was advised that the justification to repair Bulldog Bank had been examined; from which it had been ascertained that the economic and benefits assessment did not support the case for Flood Risk Grant in Aid, as there were no residential properties at risk and only a small area of golf course.

The report highlighted that the freshwater habitat behind Bulldog Bank was already adapting to saline intrusion; and that the designation of the wider site were focused on various dune types, coastal geomorphology and associated coastal flora and fauna. The Committee was advised that the plan was to seek approval to duplicate

the Managed Realignment into EPOCH 1 - present day to 2025, whilst retaining the principle to sustain flood risk to people and properties.

The Committee's attention was drawn to the map on page 29 of the report, which provided the Committee with the proposal to realign the sea bank to reflect the western dune alignment; and to remove references to Bulldog Bank.

All Options considered were detailed on pages 26 and 27 of the report and the Committee was advised that Option C would be used to update the Humber Estuary Coastal Authorities Group (HECAG) Shoreline Management Plan (SMP) Policy Unit.

The Committee was invited to consider and comment on the report and endorse the promoted approach as detailed.

During a short discussion, the Committee raised the following comments:-

- One member queried the origins of the map. Officers confirmed that the East Riding of Yorkshire had acted as the lead authority in developing the Shoreline Management Plan;
- One member enquired as to whether 'managed alignment' was the same as retreat. Officers confirmed that managed alignment was the same as retreat. It was noted that the term retreat was not used because it did not adequately convey the fact that carefully considered realignment was a designed and managed process;
- Confirmation was sought as to whether the proposal referred to formed part of the Shoreline Management Plan that covered from Gibraltar Point northwards to Flamborough Head. Officers confirmed that the proposal related to the southernmost section of the Shoreline Management Plan; and
- Officers confirmed that work had been done to strengthen and raise the bank behind; and that Bulldog Bank would not be actively dismantled, but would be allowed to naturally erode. Officers also confirmed that the second bank was of an adequate standard to provide protection.

RESOLVED

That the Flood and Water Management Scrutiny Committee endorsed the promoted approach as detailed on page 28 of the report presented.

53 TO REPORT PROGRESS ON THE INVESTIGATIONS MADE IN THE COUNTY UNDER SECTION 19 OF THE FLOOD AND WATER MANAGEMENT ACT 2010 (FWMA)

Consideration was given to a report from Paul Brookes, County Flood Risk Manager, which invited the Committee to consider and comment on the investigations undertaken in the County under Section 19 of the Flood and Water Management Act 2010.

The Flood Risk Manager advised the Committee that the report covered the period from 1 September 2018. It was noted that there had been no new Section 19

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
26 NOVEMBER 2018**

investigations started in the current period, which was a reflection of the average or below average rainfall in the County.

Appendix A to the report provided the Committee with a record of current investigations in the County that were being carried out in accordance with Section 19 of the Flood and Water Management Act 2010.

During a short discussion, reference was made to the considerable length of time some of the investigations were taking. Officers advised that the County Council could only make recommendations to the risk management authorities; the Council was unable to enforce any action. The Council only had a duty to investigate. Confirmation was also given that land was outside of a Section 19 investigation. It was highlighted that growth flood risk could be dealt with through the planning process. It was further highlighted that sewer/surface foul water was the responsibility of the sewer authority.

One member enquired regarding the status of the Potterhanworth (Under Railway Bridge on Station Road) investigation, as detailed on page 40 of the report. Officers agreed to respond direct to the member outside of the meeting.

A further enquiry was asked relating to the Market Rasen Flood Alleviation Scheme. Officers advised that the scheme had been finished last week. The Committee was advised that the scheme had gone very well; and that the scheme would help protect 51 properties at a cost of £575,000.

RESOLVED

That the progress made on investigations undertaken within the County under Section 19 of the Flood and Water Management Act be noted.

54 FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE WORK PROGRAMME

The Committee gave consideration to a report from Daniel Steel, Scrutiny Officer, which enabled the members to consider and comment on the content of its work programme, to ensure that scrutiny activity was focussed on areas of greatest benefit.

Pages 49 and 50 of the report provided the Committee with a copy of the work programme for the Flood and Water Management Scrutiny Committee up to 28 May 2019.

The Committee was reminded that the next meeting of the Flood and Water Management Scrutiny Committee would be held on 11 February 2019.

RESOLVED

That the Flood and Water Management Scrutiny Committee Work Programme, as presented, be agreed.

The meeting closed at 11.08 am

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Open Report on behalf of Environment Agency

Report to:	Flood and Water Management Scrutiny Committee
Date:	11 February 2019
Subject:	Environment Agency Update

Summary:

To update scrutiny committee on Environment Agency activities, including progress on key capital schemes.

Actions Required:

Members of the Flood and Water Management Scrutiny Committee are invited to consider and comment on the update provided and highlight any future actions for consideration.

1. Key Capital Schemes

This paper provides an update on the key schemes within the current 2015-21 consented programme for the Northern Regional Flood & Coastal Committee (RFCC) area. The overall programme consists of 107 schemes with the key ones being the **34** highest priority schemes based on the following criteria:

- **Outcome measures** – Schemes delivering >200 households
- **Significant expenditure** – Schemes with consented total spend >£1m
- **Contributions** – Schemes with public, private and further contributions required collectively >£300k
- **Other** projects deemed important in the Area including for reasons associated with reputational risk

Of the 34 key schemes **16** are located within Lincolnshire:

Scheme Name	Promoter
• Boston Barrier	Environment Agency
• Boston Haven Banks	Environment Agency
• Saltfleet to Gibraltar Point Strategy	Environment Agency
• Lincshore	Environment Agency
• Horncastle Flood Alleviation Scheme	Environment Agency
• Louth Flood Alleviation Scheme	Environment Agency

- Wainfleet Relief Channel Environment Agency
- Black Sluice Catchment Works Environment Agency
- Work arising from Upper Witham Strategy Review (Lincoln Defences) Environment Agency
- Swaton Flood Resilience Scheme Environment Agency
- Welland Flood Banks Refurbishment Environment Agency
- Saltfleet Pumping Station Lindsey Marsh IDB
- Boygrift Pumping Station Lindsey Marsh IDB
- Wrangle Sea Banks Witham Fourth IDB
- Hobhole Pumping Station Witham Fourth IDB
- Westmere Pumping Station South Holland IDB

Of the 107 schemes in the Northern RFCC programme 17 are being promoted by Lincolnshire County Council.

This paper provides a short summary of the 11 Environment Agency key schemes on the Northern RFCC programme with Lincolnshire. More comprehensive report being provided to the Lincolnshire Flood Risk & Drainage Partnership Strategy Group and the Northern RFCC, both of which have representatives from the County Council.

UPDATE

From April 2019 the list of schemes being reported on will be reviewed.

1.1 Boston Barrier

A tidal barrier across the Witham Haven which, in conjunction with associated works to the Haven Banks, reduce the chance of tidal flooding to the centre of Boston to a 1 in 300 annual chance over the next 100 years.

The Barrier scheme remains on programme:

Start date:	May 2014
End date:	December 2019
Total Project Cost:	£105,109,685

Update since last meeting

The first phase of piling on the south bank of the Haven is now complete and the cofferdam dewatered. Excavation to start construction of the base of the barrier structure is now possible.

Work on the barrier control room is underway and the barrier gate itself is due to be delivered in spring following its manufacture in Holland.

The fishing fleet have moved to their temporary quayside downstream of the barrier. All other river traffic can now use a bypass channel created between the north cofferdam wall and the quay wall in the Port. It is over 18m wide and sufficient for all small boats to pass through.

A verbal update and presentation will be given at the scrutiny meeting.

1.2 Boston Haven Banks

Works to raise a number of low spots along the Haven banks which, in conjunction with the barrier, reduce the chance of tidal flooding to the centre of Boston to a 1 in 300 annual chance. This phase of works is the first in a series of bank raising phases to keep pace with climate change over the next 100 years.

Start Date:	October 2016
End Date:	December 2019
Total Project Cost:	£2,000,000

Update since last meeting

The Legal Agreement with LCC was signed October 2018. Tender returns expected February 2019, with a draft programme stated date of July 2019 and completion date of December 2020.

1.3 Saltfleet to Gibraltar Point Strategy Review (SGPSR)

Beach nourishment remains the most cost effective solution in the short-term as we keep pace with climate change. However, this option alone will not be technically viable in the longer term. The SGPSR will indicate when an alternative approach for significant capital investment is required and the need for partnership contributions is likely.

Start Date:	February 2018
End Date:	April 2021
Total Project Cost:	£1,210,866

Update since last meeting

The success of the 2018 consultation on flood risk management options has helped us reach two preferred flood management approaches, and due to local elections we are delayed in taking the draft Strategy alongside the Strategic Environmental Assessment and HRA to full consultation, we now expect this to happen later this year.

As part of the Strategy we continue to work with Risk Management Authorities partners to ensure that all outcome measures are being appropriately apportioned between the identified schemes that will require FCRM GiA funding within the Strategy area to avoid future double counting in line with government guidance.

1.4 Lincshore (Interim Beach Management Lincolnshire Coast)

Beach 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.

Start Date	January 2015
End Date:	March 2021
Total Project Cost:	£65,792,126 (inc. previous years)

Update since last meeting

This year's campaign was completed in June 2018. Total sand placed on beach 397,636 m³.

Planning of the 2019 campaign is underway with possible inclusion of an area of beach south of Skegness and subject to monitoring results.

Detailed design works for Trusthorpe outfall improvements are nearing completion, with works planned for later in 2019.

1.5 Horncastle Improvements

This project is now complete and the reservoir operational.

1.6 Louth Improvements

This project is now complete and the reservoirs operational.

1.7 Wainfleet Relief Channel

The Steeping Catchment was a pilot for a "Partnership Approach to Catchment Management" (PACM) being promoted through the Lincolnshire Flood Risk Management Partnership.

This work has completed, with a preferred option being to ensure the maintenance and condition of the raised defences which includes toe protection works on the Wainfleet Relief Channel and the Steeping River together with exploring upstream options to reduce flood risk and siltation.

1.8 Black Sluice Catchment Works

A catchment wide review of flood risk across the Black Sluice catchment has concluded with the following key projects resulting:

- Transfer of Black Sluice Pumping Station to the local IDB
- Rationalisation of the Main River network
- Armouring to selected embankments to reduce the risk of catastrophic failure.

Start Date:	October 2016
End Date:	March 2020
Total Project Cost:	£2,163,650

Updates since last meeting

➤ **Black Sluice Pumping Station**

We are working towards decommissioning the pumping station with more detailed plans of what this included being anticipated for early summer 2019.

A weekly public drop in session continues to be held at the Boston Hub, though to date there have been very few enquiries.

➤ **Rationalising the Main River Network (RMRN) Project**

The RMRN South Forty Foot Pilot Project has now been completed. Following a formal public notice phase on gov.uk to de-main the 5 pilot watercourses there were no objections.

On the 22 November 2018 the watercourses were formally de-mained, a total of 16.8km, and maintenance responsibility (and associated Environment Agency assets) have transferred to Black Sluice IDB.

The success of this pilot project has been down to the strong partnership approach between the key partners, including Black Sluice IDB, Lincolnshire County Council, Natural England and the RFCC. This is the first of the national pilot to reach this stage.

➤ **Bank Armouring**

Bank armouring has been carried out on part of the fenland section of the Swaton Eau.

A review of evidence has identified further sites requiring armouring and these are being progressed through ongoing maintenance contracts.

1.9 Lincoln Defences (previously- Work arising from Upper Witham Strategy Review)

A catchment wide review of flood risk across the Upper Witham catchment has concluded with the following key projects resulting:

- Replacement of a section of floodwall along Fosdyke Canal, alongside Foss Bank.
- Refurbishment of sections of flood wall along the River Witham alongside St Catherines.
- Refurbishment of sections of flood wall along the River Witham between Dixon Street and Boultham Avenue.
- Mechanical & Electrical refurbishment to the three sluices in the city, at Stamp End, Great Gowts and Bartgate.

Start Date:	June 2017
End Date:	September 2021
Total Project Cost:	£6,048,000

Update since last meeting

The Full Business Case for the project has recently been approved by the National Project Assurance team. Works are currently programmed to start in June 2019.

Environmental surveys and discussions are continuing so that everything is in place. This includes discussion about eels and otter survey.

1.10 Swaton Resilience Scheme

A flood alleviation scheme for the village of Swaton. Traditional flood risk solutions are unlikely to be justifiable hence a Natural Flood Management solution is being considered, ideally reducing flood risk across the wider catchment including the villages of Threkingham and Spanby.

Start Date:	October 2016
End Date:	February 2022
Total Project Cost:	£1,237,000

Update since last meeting

The Strategic Outline Case for the Swaton Natural Flood Management (NFM) Project was approved in January 2018.

Engagement with farmers and land owners to identify suitable sites for NFM measures has been completed with most beneficial sites identified. Further discussions with these landowners are continuing.

The full business case is being prepared with a view to submit to the Large Projects Review Group by April, with a view to works on the ground commencing late summer 2019.

2. Updates on Other Items

2.1 Donna Nook Managed Realignment Site

The Environment Agency has secured permission to the diversion and stopping up of the footpath on to the realigned path.

Preparatory work to affect the breach in the defences is underway so that works can commence at the earliest opportunity, allowing for considerations such as six weeks of High Court challenge and overwintering bird restrictions.

It is hoped to carry out works on site in May / June 2019.

3. Consultation

a) Policy Proofing Actions Required

Not applicable

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 on behalf of Deborah Campbell, who can be contacted via 03708 506 506 or deborah.campbell@environment-agency.gov.uk

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Open Report on behalf of Environment Agency

Report to:	Flood and Drainage Management Scrutiny Committee
Date:	11 February 2019
Subject:	Lincolnshire Operations Revenue Maintenance Programme

Summary:

To outline the approach of the EA to asset management and explain the Annual revenue maintenance programme for FCRM assets in Lincolnshire

Actions Required:

To consider and comment on progress and approach to recurring maintenance to FCRM asset in Lincolnshire

1. Lincolnshire and Northamptonshire FCRM Asset Maintenance

1.1 Our asset revenue maintenance budget allocation for 2018/19 was £12,934k. This is made up of £9,476k FDGiA, £2,167k IDBP, and £1,291k GDC. This covers both frequent and intermittent revenue funded work across Lincolnshire. Revenue maintenance is essential in keeping our assets at their target condition and greatly contributes to achieving our Key Performance Indicators measuring how we maintain our own and third party assets at the required condition and meeting our targets to protect households at risk. Our revenue programme is published each year and can be viewed at: <https://www.gov.uk/government/publications/river-and-coastal-maintenance-programme>.

Our asset maintenance activities cover:

- Channels – some plants and animal species are not native to the UK and spread quickly, grow rapidly and completely take over a whole area in a short space of time blocking watercourses. We may need to increase the ability of a river to convey water where the risk to property demands it. We can use a number of different approaches and activities – making the river bed and sides smooth, changing the channel size to make it wider or deeper.
- Flood defences along a water course provide increased capacity to convey flood waters. We inspect and maintain them to ensure that they perform how they were designed and that the flood channel capacity is maintained.
- Flood defence structures include walls made from stone, brick, concrete, glass, and timber. We inspect and maintain them to ensure that they perform how they were designed.

- In some high flood risk areas, working with local communities we erect temporary barriers at pre-determined locations to provide protection to property and key infrastructure.
- Inspecting and testing – we keep a record of the condition of all flood defences. This may be through routine inspections or in response to a call from a member of the public or professional partners.
- Keeping the river clear of blockages – removal of man-made obstructions such as shopping trolleys, or natural obstructions such as fallen trees or overhanging branches and weed. We assess the flood risk before we consider removal of any blockage.
- In managing flood risk, we maintain and operate many complex assets, including pumping stations, barrier structures and control structures to manage water flow and water storage capacity.
-

The programme of works is split between 2 distinct areas of delivery, Frequent (Annual) maintenance, and intermittent work, targeted on improvement and repairs works to assets.

2 Frequent Maintenance

2.1 The 2018/19 frequent maintenance programme is fully funded across the Lincolnshire. The maintenance will be carried out using a variety of delivery routes. Our internal Field teams, national Water and Environment Management (WEM) framework, FCRM Operational framework, and Public Sector Co-operation Agreements (PSCA).

2.2 Figure 1 below shows a breakdown of how funding is allocated to different types of programmed work for 2018/19. .

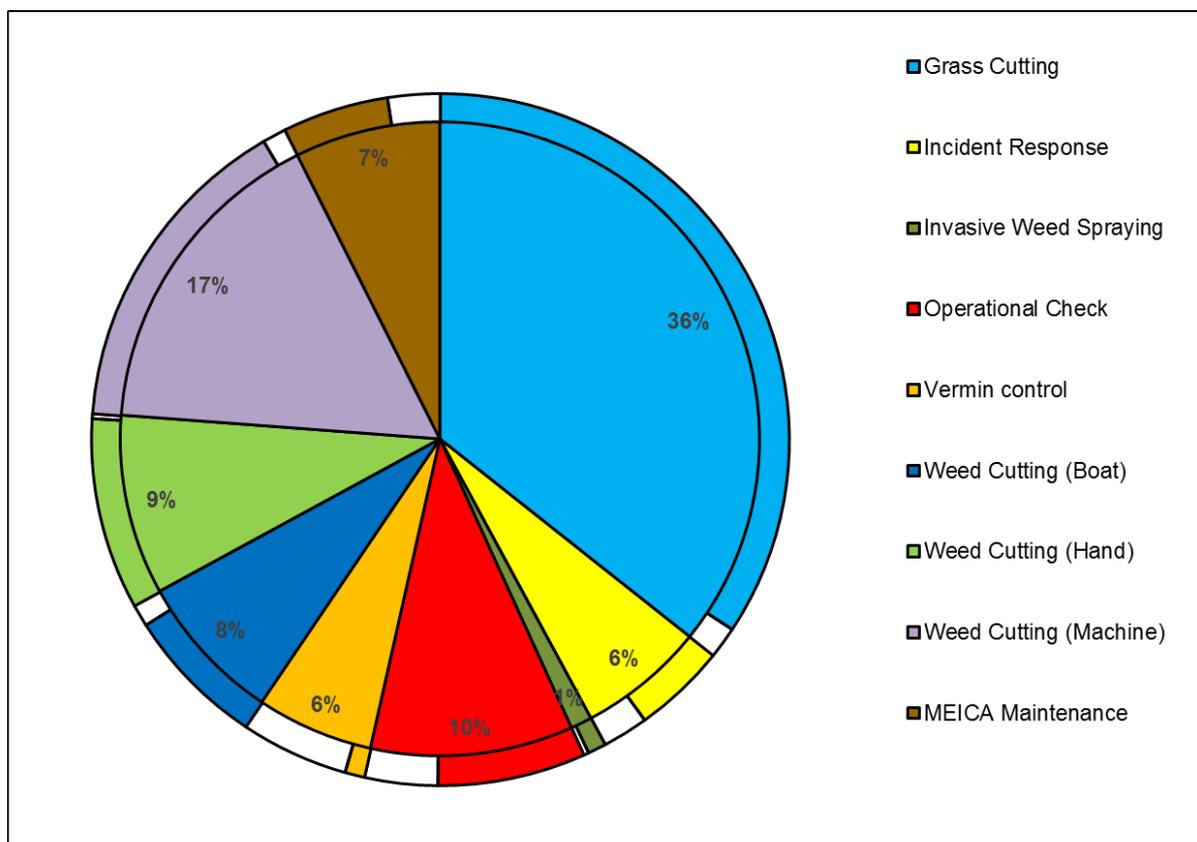


Figure 1: 2018/19 Frequent Maintenance - percentage split by work type.

3. Intermittent maintenance

- 3.1 The intermittent programme comprises of projects across the area which repair or improve the condition of our flood risk assets. The projects will be carried out using a variety of delivery routes. Our Internal Field Teams, WEM and Minor Frameworks, and Public Sector Co-operation Agreements. The intermittent programme is periodically re-assessed to ensure that we are making the best use of our available budget, focussing on those areas of work that are the highest priority and taking into account recently identified items of work.
- 3.2 Our revised intermittent programme for 2018/19 comprises of 80 active projects across the area. Our total forecast for Intermittent Projects this financial year is £7.22m. Figure 2 below shows a high level breakdown of the proportion of funding allocated to different types of work.

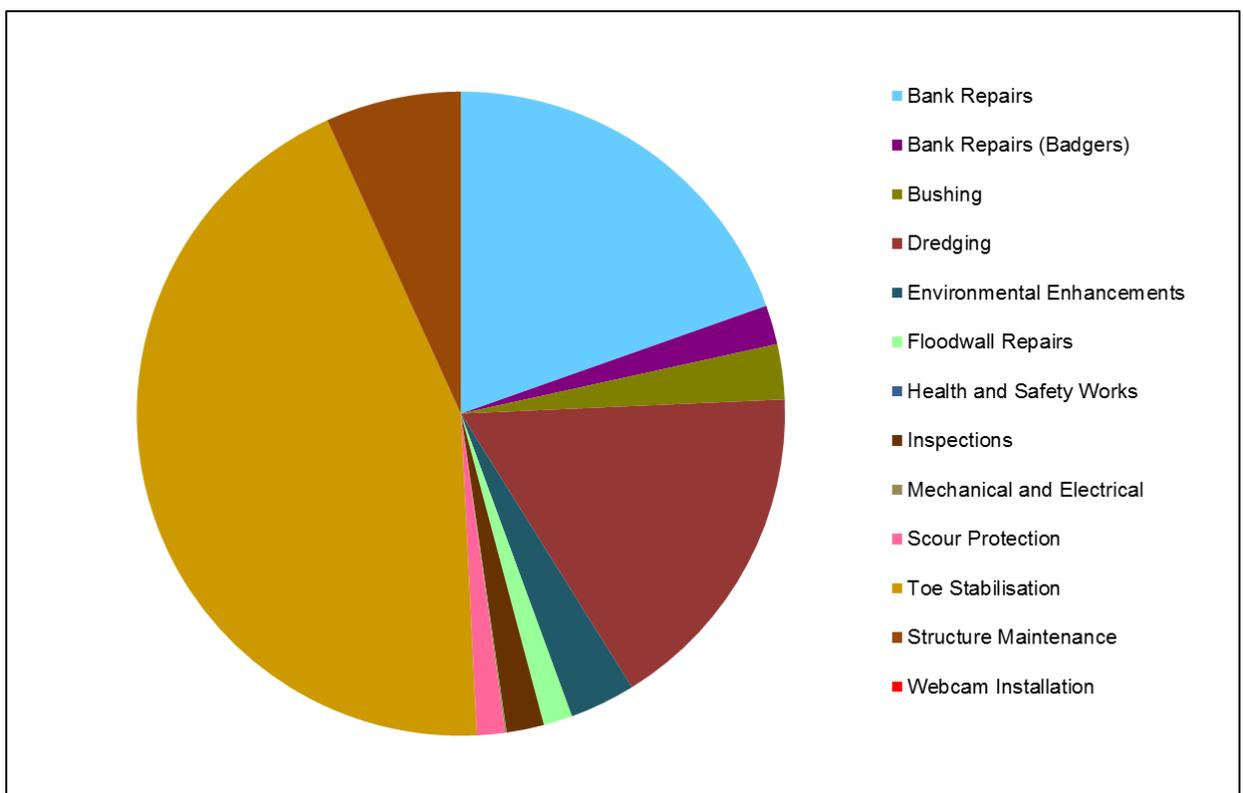


Figure 2: 2018/19 Intermittent Projects - percentage split by work type.

4 Examples of projects undertaken in Lincolnshire

- 4.1 We have completed desilting works immediately upstream of the River Rase South Branch Reservoir control structure.

The width of the river channel immediately upstream of the control structure had been reduced by approximately 50% due to siltation which was affecting the operation of the structure. Approximately 18m³ of silt was removed from the structure and the channel immediately upstream. The removed material was spread on Environment Agency land adjacent to the watercourse.

The works were completed in August 2018 by one of our FCRM Operational Framework Lot 1 suppliers, Kingcombe Stonbury Ltd, at a cost of £8.8k.. See Figure 53below.



Figure 3: River Rase South Branch Reservoir, upstream of Market Rasen, Lincolnshire. Showing siltation of control structure before (left) and after works (right).

- 4.2 Repair works have been completed to severe erosion of the South Humber Bank at Oldfleet, Lincolnshire, which are believed to have occurred during the 'Beast from the East' in February/March 2018.

The problem was identified by our asset inspector whilst undertaking routine T98 inspections. Erosion to the existing tar and stone revetment had occurred, creating a void under the defence of approximately 2.3m x 8m x1m.

An initial repair to the revetment, using concrete, was completed by our local field team to ensure there wasn't further degradation of the flood defence, however, due to the geometry of the wall the initial repair couldn't fill the void that extended under the defence.

Specialist contractors were then employed. Over a 2 day period, holes were drilled into the existing reinforced concrete track over the void, which were then injected with an expanded polymer.

The specialist works were completed in October 2018 through the FCRM Operations Framework Lot 1 suppliers, Kingcombe Stonbury Ltd and managed by the area Asset Performance team. The works cost £30k.

See Figure 4 below.



Figure 4: South Humber Bank, Oldfleet, Lincolnshire. Showing erosion damage to revetment (left), void under concrete track and floodwall (top right). Specialist contractors injecting expanded polymer through concrete track to fill void (bottom right).

5. De commissioning and river rationalisation approaches to Asset management.

- 5.1 As part of our whole life approach to asset management, we also look to actively engage with partners and stakeholders, when assets no longer have significant FCRM benefit, and we may want to withdraw maintenance. As an area we have been part of a pilot, looking at the best way to approach such decommissioning, and will look to explore this approach in the future.

EXAMPLES

Rationalising the Main River Network (RMRN) - South Forty Foot Pilot Project

- 6.1 The RMRN South Forty Foot Pilot Project has now been completed. Following a formal public notice phase on gov.uk to de-main the 5 pilot watercourses there were no objections. The watercourses were formally de-mained, a total of 16.8km, and maintenance responsibility (and associated Environment Agency assets) have transferred to Black Sluice IDB.
- 6.2 The success of this pilot project has been down to the strong partnership approach with Black Sluice IDB, and the support of key partners in the area including Lincolnshire County Council, Natural England and Anglian Northern RFCC. This is the first of the national pilot to reach this stage, with work continuing on the Isle of Axholme, Norfolk & Suffolk, and Stour Marshes pilot projects. They will also soon be moving to the formal public notice phase over winter, with the aim to complete the pilot project by the end of March.

Black Sluice Pumping Station

- 6.3 As announced at the ANRFCC meeting, we are formally moving to decommission Black Sluice Pumping Station (BSPS). This has been agreed in partnership with Black Sluice Internal Drainage Board (IDB), Lincolnshire County Council (LCC), Boston Borough Council (BBC), Anglian Northern Regional Flood and Coastal Committee (ANRFCC), the Association of Drainage Authorities (ADA) and the National Farmers Union (NFU). This is following thorough investigations by Black Sluice IDB to take on the asset through a formal transfer which, due to the significant costs involved, is not possible. The ongoing process ensures that we inform all stakeholders, district and parish councils and consultees from of the move to decommission. We will continue to pro-actively engage as the project progresses.

We are also working with Heritage Lincolnshire too understand the feasibility of re-purposing the building to provide a new amenity to Boston and the area. This is being taken forward with partners, as are discussions around how to manage flood risk in the wider catchment. We will continue to keep members up to date as the project progresses, and welcome any feedback or suggestions for the future use.

Pete Reilly,
Operations Manager (Lincolnshire)

**Open Report on behalf of Andy Gutherson,
Interim Executive Director of Place**

Report to:	Flood & Water Management Scrutiny
Date:	11 February 2019
Subject:	To report progress on the investigations made in the County under Section 19 of the Flood & Water Management Act 2010 (FWMA)

Summary:

This is a standing item to inform the Committee of the position of all current S.19 flood investigations in the County.

Actions Required:

Members of the Flood and Water Management Scrutiny Committee are invited to consider and comment on the investigations undertaken in the County under Section 19 of the Flood and Water Management Act 2010 (FWMA).

Members are asked to view the current S.19 spreadsheets online (also included at Appendix A) and inform Democratic Services in advance if they wish to highlight any particular sites at the forthcoming Scrutiny Committee meeting.

Link - <https://www.lincolnshire.gov.uk/residents/environment-and-planning/floodrisk-management/flood-investigations/117780.article>

1. Background

This is a standing item to inform the Committee on the position of all current Section 19 investigations in the County, which are listed in Appendix A. It will be noted that in some cases the investigation is marked as being completed, but the flood incident will remain on Appendix A as there may be outstanding works arising from the investigation which have not yet been completed or programmed by the relevant Risk Management Authority.

Monthly figures from the Environment Agency indicate that, despite December rainfall being well above the long-term average, overall total rainfall in the last three months of 2018 was average. There were no new S.19 investigations started in the same period. This is the second quarter running during which no flood investigations were commenced. This is of course to be welcomed, and gives the

opportunity to work towards the timely completion of the current workload of flood investigations which is outlined in Appendix A.

The committee will be aware that the County Council became Lead Local Flood Authority in April 2012, since when it has completed 199 flood investigations affecting around 440 properties. The committee may be interested to know how these investigations are distributed through the year, which sets the context for the operational resources required to manage the initial response and subsequent investigation.

Table 1 below illustrates the monthly distribution of the total number of flood investigations undertaken since April 2012. Almost all of the flood events under investigation relate to surface water following rainfall events, as opposed to groundwater or river flooding. Note that the table does not include the tidal surge in December 2013. As can be seen, the distribution shows a greater concentration of flood events in the summer months; in fact, 82% of flood events requiring an investigation occurred during June, July or August. As might be expected, this simple analysis suggests that the convection-type localised heavy storms associated with warm, humid conditions are more likely to overwhelm drainage systems than the typically steady and less intense precipitation at other times of year, leading to increased flood risk from surface water.

Month	Flood events requiring investigation
January	3
February	0
March	5
April	4
May	15
June	86
July	38
August	39
September	2
October	1
November	3
December	3

Table 1: monthly distribution of flood investigations April 2012 to date

2. Conclusion

Members of the Flood and Water Management Scrutiny Committee are invited to review the investigations undertaken in the County under Section 19 of the Flood and Water Management Act 2010 (FWMA).

3. Consultation

a) Have Risks and Impact Analysis been carried out?

No

b) Risks and Impact Analysis

N/A

4. Appendices

These are listed below and attached at the back of the report	
Appendix A	Record of current flood investigations in the County carried out in accordance with S.19 FWMA.

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 Paul Brookes, County Flood Risk Manager, who can be contacted on (01522) 782070 or paul.brookes@lincolnshire.gov.uk.

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Appendix A													
2	Duty to Investigate													
3	Section 19 Investigations													
4	Lincolnshire County Council Section 19 Investigations - East Lindsey District Council Network Area - Area Highways Manager Andrew Ratcliffe (East)													
5	Date of Incident	Town / Locality	Street / Road Name	Description of Flooding	No of Properties Flooded	Investigation Status	S19 Report Recommendations / Conclusions	Risk Management Authorities with Responsibilities and whether they are exercising functions	Proposed Action/Works	Consideration for inclusion in future Common Works Programme	Promoter	Works Status	Estimated Timescales Recommendation / Scheme Completion	S19 Report File Reference
6	28 June 2012	Horncastle	South Street	Extreme rainfall (estimated to be a 1 in 50 year event) caused overland and highway surface water flows to collect at the low area of the Bull Ring and South Street overwhelming the Anglian Water sewer systems; which were also suffering from surcharged outfalls due to high river levels. 3 properties	3	Completed	Whilst the flooding was caused by extreme rainfall and overland flows, LCC has undertaken a CCTV survey of the underground surface water systems. This has revealed a number of condition concerns in relation to a brick culvert system owned by Anglian Water. The report has been passed to Anglian Water in order that they consider future action and repairs. LCC has in addition carried out repairs to gullies and connections in South Street. LCC has also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. A bid for an overall surface water study for Horncastle is being submitted by LCC. Anglian Water works to clear blockages have been completed. Planned Environment Agency works regarding outfall issues and river levels may reduce flood risk.	Anglian Water - Yes LCC - Yes	LCC gullies and system checked and repaired. Anglian Water checking surface water systems and may consider improvement works in future asset management plans. Feasibility and design programmed for 2014/15 and if approved; works to progress in 2015/16/17. Additional minor works to be included in the future works programme.	Yes	LCC	On-going	2018/19	S19-003
7	28 June 2012	Horncastle	Langton Hill	Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent hillside and agricultural land, which was not contained by the interceptor ditch. Combined overland and highway surface water overwhelmed both the highway and surface water sewer drainage systems on Langton Hill and West Street, and caused flooding at the bottom of the hill. 4 properties	4	Completed	A full drainage survey has been carried out and significant blockages have been removed from both the highway drains and Anglian Water's surface water sewers. The survey has identified a number of areas of damage to both systems. LCC has repaired the highway drainage system, and the survey has been forwarded to Anglian Water for assessment of their surface water sewers. The Witham 3rd Internal Drainage Board is ensuring that ditches are cleared by respective riparian land owners.	LCC - Yes Anglian Water - Yes Witham 3rd IDB - Yes	Highway drainage system repaired and functioning. Anglian Water checked the surface water system and it is working acceptably. Initial works delivered. A bid for an overall surface water study for Horncastle has been submitted with feasibility and design programmed for 2014/15 if approved; works to be programmed 2017/18.	Yes	LCC	On-going	2017/18	S19-004
8	28 June 2012	Horncastle	Mark Avenue Accommodation Road Prospect Street	Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent hillside and agricultural land. This was exacerbated by the interceptor ditch being restricted at its entrance to the culvert system, which caused flooding to properties in Mark Avenue, Accommodation Road and Prospect Street. 14 properties	14	Completed	Whilst the flooding was caused by extreme rainfall and flows from adjacent land, investigations revealed an intercepting ditch which flows into a culverted watercourse which is shown on Anglian Waters records. East Lindsey District Council has cleared the culvert and trash screen. LCC has also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. Ditches cleaned out and discussions are ongoing between Anglian Water and Witham 3rd Internal Drainage Board regarding ownership. A bid for an overall surface water study for Horncastle is being submitted by LCC.	Anglian Water - Yes Witham 3rd IDB - Yes ELDC - Yes	Riparian ditches cleaned out. Anglian Water has fitted a new grill on its sewer and access points to deal with safety concerns related to cleaning debris from watercourse. An LCC capital scheme is included in the Medium Term Plan for works in 2020/21	Yes	LCC AW Witham 3rd IDB	On-going	2018/19	S19-005
9	28 June 2012	New Bolingbrooke	Station Row	Extreme rainfall (estimated to be a 1 in 40 year event) caused highway surface water flows to collect in the low area of Main Road/Station Row overwhelming the highway drainage system in the footway. 7 properties	7	Completed	LCC has investigated the drainage and found blockages/damage due to buildings and tree roots. A solution to rectify the damage is being designed and costed.	LCC - Yes	Dropped kerbs outside the post office replaced with full height kerbs. Drainage system found to be damaged by buildings/trees and a new outfall is required. Solution being designed and costed.	No	LCC	On-going	2014 - 2016	S19-007
10	28 June 2012	Toynnton St Peter	Ings Lane	Extreme rainfall caused overland flows to surcharge a number of watercourses in the area resulting in flooding to a low lying property in Ings Lane. 1 property	1	Completed	It is recommended that a new watercourse be cut to the south to divert flows from Toynnton St Peter away from the flooded property. Witham 4th Internal Drainage Board is considering a scheme. However, this is likely to be a low priority due to the cost, legal issues and minimal benefits.	Witham 4th IDB - Yes LCC - Yes	Witham 4th IDB considering a capital scheme submission with possible upgrading/realigning of drains in the area. Investigation works programmed for 2016/17/18. Possible works 2018/19/20.	Yes	Witham 4th IDB	On-going	Investigation 2016/17/18 Possible works 2018/19/20	S19-010
11	9 June 2014	Skegness	North Parade	Intense summer rainfall caused internal flooding to the hotel. Surface water entered the building via the ladies toilets. 1 property	1	Completed	AW to investigate the capacity of the surface water system. The property owners should investigate whether they have sufficient drainage within their land to accommodate the normal flows expected.	LCC - Yes Anglian Water - Yes	After further investigations carried out by AW additional works are planned, including running of a new model. Recommendations advised to property owners.	No	AW	On-going	1 March 2020	S19-101
12	24 June 2014	Skegness	Sunningdale Close	Following torrential rain, the highway drains were unable to cope with the amount of surface water on the carriageway. The flood water entered the property. 2 properties	2	Completed	AW to investigate the capacity of the surface water system. The property owners should consider installing cut off drains to collect water before it enters the property and ensure discharge to an appropriate location, or consider other property level protection measures.	LCC - Yes Anglian Water - Yes	Further investigations to be carried out by AW and IDB to establish outfall. Anglian water removed gas service pipes intruding in the surface water system in 2015.	No	AW IDB	On-going	Spring 2015	S19-098
13	24 June 2014	Skegness	Sunningdale Drive	Following torrential rain, the highway drains were unable to cope with the amount of surface water on the carriageway. The flood water entered the property, whilst the owners were away on holiday. The property also flooded on 13 July 2014. 1 property	1	Completed	Following investigations carried out by AW in 2012, third party obstructions were identified at several locations within the system. Three of these were resolved in 2013 and a further drainage survey was carried out. AW to carry out further investigations.	LCC - Yes	Further investigations to be carried out by AW and IDB to establish outfall.	No	AW IDB	On-going	Spring 2015	S19-099
14	24 June 2014	Skegness	Grand Parade	Following torrential rain, the highway drains were unable to cope with the amount of surface water on the carriageway and a property was flooded. 1 commercial property	1	Completed	AW to investigate the capacity of the surface water system. ELDC should consider investigating whether it has sufficient drainage within its land to accommodate the normal flows expected.	LCC - Yes	Further investigations to be carried out by AW & ELDC. AW to check new model.	No	AW ELDC	On-going	Spring 2015	S19-100

Duty to Investigate													
Section 19 Investigations													
Lincolnshire County Council Section 19 Investigations - East Lindsey District Council Network Area - Area Highways Manager Andrew Ratcliffe (East)													
Date of Incident	Town / Locality	Street / Road Name	Description of Flooding	No of Properties Flooded	Investigation Status	S19 Report Recommendations / Conclusions	Risk Management Authorities with Responsibilities and whether they are exercising functions	Proposed Action/Works	Consideration for inclusion in future Common Works Programme	Promoter	Works Status	Estimated Timescales Recommendation / Scheme Completion	S19 Report File Reference
10 August 2014	Chapel St. Leonards	South Road	Highway surface water entered the property through the vehicular access and flooded the driveway and then entered the living area of the dwelling. Property flooded again on 27/8/2016 - (REPORT AND WORKS STILL ON-GOING) 1 property	1	Completed	Due to capacity issues the gully cleansing and jetting is unlikely to resolve the problem during extreme rainfall, as the quantity of surface water would overwhelm any standard drainage system. However this will hopefully ease the extent of flooding and be effective during heavy / average rainfall, together with the solutions installed by the residents. LCC Highways to arrange a CCTV drainage survey to identify any blockages or defects within the system. Assuming the drainage system is in good working order, the most likely solution to ease the problems of flooding will be to increase the upstand of the dropped kerb to +25mm and install an additional gully at the lowest point (determined by level survey), and connect to the existing surface water drainage system. This will be carried out as a small highways maintenance scheme.	LCC - Yes	CCTV drainage investigation to be carried out in due course. Along with the installation of an additional gully and increasing the upstand of the vehicular access to +25mm. Order in system programmed for 2018/19.	No	LCC	On-going	March 2019	S19-125
27 August 2016	Chapel St Leonards	The Esplanade	LPP used to remove large amount of water. 2 properties	2	On-going			TBC			On-going		S19-195
27 August 2016	Chapel St Leonards	St Leonards Drive	Main pump used 1 property	1	On-going			TBC			On-going		S19-196
02 April 2018	Louth	Grimsby Road	Fire & Rescue attended and pumped out 3 properties and put preventative measures in place to prevent further flooding. 3 properties	3	On-going	TBC		TBC			On-going		S19-199
02 June 2018	Woodhall Spa	Witham Road Tor-O-Moor Road	Surface water flooding. 3 properties	3	On-going	TBC	TBC	TBC			On-going		S19-203
02 June 2018	Burgh on Bain	Main Road	Surface water flooding. 1 property	1	On-going	TBC	TBC	TBC			On-going		S19-204
TBC	Partney	Chapel Lane	Surface water flooding. 1 property	1	On-going	TBC	TBC	TBC			On-going		S19-206
27 July 2018	Skegness	Sunningdale Drive	Surface water caused property to internally flood. 6 properties	6	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-210
TBC	Horncastle	Churchill Avenue	Surface water flooding. 2 properties	2	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-211
TBC	Skegness	Roman Bank	TBC 1 property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-212
27 July 2018	Horncastle	West Street	Surface water flooding which entered the property through the back door and flooded the kitchen and dining room. 1 property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-220
16 August 2018	Ingoldmells	Sea Lane	Surface water flooding into shops. 7-8 commercial properties	8	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-221
07 December 2018	Wainfleet	St Johns Street	Surface water flooding to property through the garage.	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-222

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Appendix A													
2	Duty to Investigate													
3	Section 19 Investigations													
4	Lincolnshire County Council Section 19 Investigations - West Lindsey District Council & City of Lincoln Council Network Area - Area Highways Manager Mike Reed (North)													
5	Date of Incident	Town / Locality	Street / Road Name	Description of Flooding	No of Properties Flooded	Investigation Status	S19 Report Recommendations / Conclusions	Risk Management Authorities with Responsibilities and whether they are exercising functions	Proposed Action/Works	Consideration for inclusion in future Common Works Programme	Promoter	Works Status	Estimated Timescales Recommendation / Scheme Completion	S19 Report File Reference
6	28 June 2012	Keelby	Maple Avenue Pelham Crescent Riby Road	Flooding was caused by surcharging surface water sewers combined with overland flows. 4 properties Maple Avenue - 2 Properties Pelham Crescent - 1 Property Riby Road - 1 Property	4	Completed	Further detailed study required into the ownership, condition and capacity of the surface water sewer system with a view to providing a new pipe system to intercept flows from the A18 Barton Street; to reduce flows entering the village, and to upgrade the pipe between Riby Road and Caddle Beck. Further LCC investigation and design required. Scheme bid submitted for feasibility and works.	LCC - Yes Anglian Water - Yes	Surface water drainage scheme under consideration. Further LCC investigation and design required. Feasibility 2016/17 Work 2018/19. Some A18 cut-off remedial work has been identified to have some mitigation benefit.	Yes (may also require Anglian Water investment)	LCC AW	On-going	Investigation & Feasibility 2016/17 Possible works 2020/21. Potential Grant In Aid scheme.	S19-032
7	28 June 2012	Keelby	Eastfield Road	Surface water sewer overwhelmed due to its connection to a blocked riparian drain. 3 properties	3	Completed	North East Lincolnshire Internal Drainage Board to clear riparian drain. Anglian Water to investigate cross contamination of foul and surface water systems. LCC to investigate the provision of a new chamber on the culverted section of watercourse in order to facilitate further investigations. Riparian owners to be advised of their responsibilities.	Anglian Water - Yes North East Lincs IDB - Yes LCC - Yes	All risk management partners have completed their actions and responsibilities.	No	LCC	On-going	Possible works 2020/21	S19-033
8	9 June 2014	Gainsborough	Caldicott Drive Darwin Street Elsham Walk Hill Crescent Limber Close Marshalls Yard Priory Close Rectory Avenue Silver Street Spring Gardens Tower Street Trinity Street Long Wood Road	Over a period of 60 minutes during the afternoon 43.4mm of rain fell in Gainsborough, of which 35.6mm fell in 30 minutes (a return period of 227 years). The surface water drains and combined sewer systems were unable to cope with the intense rainfall, the various systems consequently surcharging and the resulting surface water runoff entering properties. In all around 53 properties were flooded internally. 53 properties	53	Completed	1. That all RMA's inspect their respective infrastructure and take any necessary steps to ensure it is working as well as possible. 2. Advice be made available to victims of flooding with regard to resistance measures which might be appropriate, for example air brick covers and flood gates. 3. LCC consider improvements to the highway surface water drainage where this will offer resistance to flooding from surface runoff. 4. That the LLFA investigate the feasibility of overland flood routes to manage the risk of flooding from surface water	LCC - Yes WLDC - Yes Severn Trent Water - Yes	Consider for inclusion in Medium Term Plan. Feasibility study 2019/20.	No		On-going		S19-115
9	14 September 2015	Lincoln	Percy Street	Customer rang to report that during Monday evenings heavy rainfall their house was flooded due to blocked drains at the bottom of the road. Customer has had to have all the carpets ripped up and the back garden was under approx 2 feet of water. 1 property	1	Completed	To clean and jet through all sewer connections and ensure the drainage system is running clear	LCC - Yes AW - Yes	LCC to clean and jet gullies and connections	No	LCC AW	On-going	End 2015	S19-132
10	15 June 2016	Cherry Willingham	Ancaster Close	Flooding into the property due to drainage, water in customers house. 1 property	1	On-going	Awaiting report		Awaiting report			On-going		S19-164
11	9th August 2017	Scotter	Eminson Close	Caller reported this before and extra drainage was added BUT the house is flooded at present. Fire brigade were pumping out garage and hallway after midnight this morning. Caller is very concerned about further flooding and asks that someone call her back today please as the drainage improvements are not enough. Caller refers to new properties being built taking surface drainage potential away. 1 property	1	On-going	Awaiting report		Awaiting report			On-going		S19-154
12	02 April 2018	Blyton	High Street	Surface water run-off from higher ground to the rear of the property following a period of heavy rain caused the property to flood. The drainage system was unable to cope with the volume of water which caused the dyke to the side of the property to overflow. 1 property	1	Complete	TBC		TBC			On-going		S19-089
13	TBC	Cherry Willingham	Lime Grove	Surface water flooding. 1 property	1	On-going	TBC		TBC			On-going		S19-201
14	10 August 2018	Lincoln	Percy Street	Surface water running up the footway, off the road, into the garden and through the rear door of the property. 1 property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-213
15	10 August 2018	Lincoln	Allenby Close	Surface water flooding came straight through the front door of the property. 1 property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-214

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Appendix A													
2	Duty to Investigate													
3	Section 19 Investigations													
4	Lincolnshire County Council Section 19 Investigations - North Kesteven District Council & South Kesteven District Council Network Area - Area Highways Rowan Smith (West)													
5	Date of Incident	Town / Locality		Description of Flooding	No of Properties Flooded	Risk Management Authorities with Responsibilities and whether they are exercising functions	Actions and Recommendations	Consideration for inclusion in future Common Works Programme	Proposed Action/Works	Promoter	Status	Estimated Timescales Recommendation / Scheme Completion	S19 Report File Reference	
6	28 June 2012	Digby	North Street	Overland flow from field into private properties, also blocked culvert/watercourse on school playing field.	Unconfirmed	Completed	LCC, Witham First IDB and the Environment Agency are to undertake local maintenance and are considering improvement works following consultation with the Parish Council. A bid for an overall flood risk study for Digby has been submitted for feasibility, design and works.	LCC - Yes Witham 1st IDB - Yes	Local maintenance work carried out by LCC, IDB & Landowner and residents on Green Dykes and North Street. Wider improvement scheme under consideration. Feasibility and Design 2016/17. Possible works 2019/20.	Yes	LCC Witham 1st IDB EA	On-going	Possible works 2019/20	S19-048
7	28 June 2012	Digby	Beck Street	Overtopping of Digby Beck (Main River) and capacity issues on the foul sewer.	Unconfirmed	Completed	LCC, Witham First IDB and the Environment Agency are to undertake local maintenance and are considering improvement works following consultation with the Parish Council. A bid for an overall flood risk study for Digby has been submitted for feasibility, design and works.	Environment Agency - Yes Anglian Water - Yes LCC - Yes	Local maintenance work carried out by LCC, IDB & Landowner and residents on Green Dykes and North Street. Wider improvement scheme under consideration. Feasibility and Design 2016/17. Possible works 2019/20.	Yes	LCC Witham 1st IDB EA	On-going	Possible works 2019/20	S19-048
8	28 June 2012	Digby	The Hurn	Overtopping of IDB drain (Digby Beck North Branch) and riparian watercourse. Suspected failure of Anglian Water foul pumping station.	Unconfirmed	Completed	LCC, Witham First IDB and the Environment Agency are to undertake local maintenance and are considering improvement works following consultation with the Parish Council. A bid for an overall flood risk study for Digby has been submitted for feasibility, design and works.	Witham 1st IDB - Yes Anglian Water - Yes	Local maintenance work carried out by LCC, IDB & Landowner and residents on Green Dykes and North Street. Wider improvement scheme under consideration. Feasibility and Design 2016/17. Possible works 2019/20.	Yes	LCC Witham 1st IDB EA	On-going	Possible works 2019/20	S19-048
9	28 June 2012	Thorpe Tilney	Sleaford Road Hallams Lane Church Lane	Surcharging of open watercourses and assumed restrictions within culverted sections. Surcharge of public surface and foul water systems.	Unconfirmed - pre feasibility report mentions 8 properties.	Completed	Improvement works on watercourse undertaken November 2012. Ongoing LCC investigations, further excavations to commence to provide access for CCTV survey, also minor kerbing improvements and works issued. A meeting has been held with the Parish Council/Flood Group/National Flood Forum. A bid for an overall study for Timberland has been submitted for feasibility, design and works.	Witham 1st IDB - Yes LCC - Yes Anglian Water - Yes	Wider scheme Feasibility and Design 2017/18. Possible works 2019/20. LCC to carryout regular monitoring.	Yes	LCC	On-going	Feasibility 2017/18 Possible works 2019/20	S19-054
10	6 July 2012	Swaton	West End	Overland surface water flowing through private land. Separate case of overtopping of Swaton Eau flooding carriageway and property basement. 2 properties	2	Completed	The Environment Agency has completed its hydraulic modelling works. Black Sluice Internal Drainage Board has previously bid for an improvement scheme. Environment Agency / LCC have been asked to assist with scheme promotion.	Environment Agency - Yes Black Sluice IDB - Yes LCC - Yes	EA progressing a Natural Flood Management R&D project to reduce frequency of flooding to Swaton, and possibly Threekingham and Spanby	Yes	LCC EA Black Sluice IDB	On-going	EA Feasibility Study 2017/18 Possible works 2018/19	S19-056
11	6 July 2012	Harlaxton	High Street	Current drainage system has insufficient capacity and backed up causing flooding to the carriageway and 2 properties. 1 property	1	Completed	Following detailed investigation, joint work between LCC and Upper Witham IDB has been completed. Investigation to Mow Beck required to understand overall flood risk.	Upper Witham IDB - Yes Anglian Water - Yes	LCC surface water scheme completed and EA to investigate Mow Beck watercourse downstream.	Yes	LCC EA	On-going	Summer 2015	S19-060
12	6 July 2012	Burton Pedwardine	White Cross Lane	Surface water surcharge from private open watercourse to the east. 2 properties	2	Completed	Black Sluice IDB to carry out enforcement. Resident met and awaiting proposals which may be subject to a highway contribution. Awaiting confirmation.	Black Sluice IDB - Yes	Discussions still ongoing between LLFA, IDB and residents. LCC have found and cleaned 2 pipes under road.	No	LCC Black Sluice IDB	On-going	Summer 2015	S19-062
13	6 August 2012	Caythorpe	Gorse Hill Lane	Following an intense period of rain, excess surface water did not drain away fast enough from the gully at the boundary with Kings Hill. This caused surface water to flow across the carriageway and breach the verge and enter the property's driveway, subsequently overtopping the threshold causing internal flooding. 1 Property	1	Completed	The profile of the carriageway may cause excess surface water to miss gullies at the boundary of Kings Hill. The installation of a vehicular access built to the correct specification may also prevent further occurrences of flooding by increasing the kerb height between the carriageway and the property.	LCC - Yes	Further investigations of the surface water system required, possibly aided by development plans for Kings Hill. Level survey and wet weather inspection to be carried out to establish validity of highway drains. Inspections & cleansing carried out and further investigations required.	No	LCC	On-going	Summer 2016	S19-068
14	21 November 2012	Corby Glen	Irham Road	Overland flow from adjacent farm land. 1 property	1	Completed	Resilience measures the property owner has taken will reduce the risk of surcharge from the private drain (non-return valve added). Works that have been undertaken by LCC Highways including jetting & CCTV of the system have identified possible improvement works, this would include additional inspection chambers and updating the system. Application for additional funding has been submitted for the installation of inspection chambers and upgrade of the sewer system.	LCC - Yes	Application submitted for funding to add inspection chambers and upgrade sewer system along a short section of Irham Road.	No	LCC	On-going	End 2015	S19-069
15	22 May 2014	Market Deeping	Market Place	Following torrential rain, there was excess water on the carriageway. The surface water drains were overwhelmed and when vehicles passed through the standing surface water, bow waves forced water to overtop the footway and enter the properties causing internal flooding. 1 property	1	Completed	LCC to carry out maintenance work on the surface water drainage system. AW to maintain utility surface drainage systems. Property owner to maintain the rainwater drainage systems and consider further drainage to allow the escape of water from the low front area.	LCC - Yes Anglian Water - Yes WDIDB - Yes	Maintenance work to be carried out by LCC. Property owner advised on preventative measures to protect the property. AW to continue with regular inspections & maintenance.	No	LCC AW	On-going	Summer 2015	S19-107
16	22 May 2014	Market Deeping	Market Place	Following torrential rain that fell in a short period, excess surface water on the carriageway, forced water to overtop the footway by passing vehicles and enter the property causing internal flooding. 1 property	1	Completed	LCC to carry out maintenance work on the surface water drainage system. Aw to maintain utility surface drainage systems. Property owner to maintain the rainwater drainage systems and consider further drainage to allow the escape of water from the low front area.	LCC - Yes Anglian Water - Yes	Maintenance work to be carried out by LCC. Property owner advised on preventative measures to protect the property. AW to continue with regular inspections & maintenance.	No	LCC AW	On-going	End 2015	S19-108

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2	Duty to Investigate													
3	Section 19 Investigations													
4	Lincolnshire County Council Section 19 Investigations - North Kesteven District Council & South Kesteven District Council Network Area - Area Highways Rowan Smith (West)													
5	Date of Incident	Town / Locality	Description of Flooding	No of Properties Flooded	Risk Management Authorities with Responsibilities and whether they are exercising functions	Actions and Recommendations	Consideration for inclusion in future Common Works Programme	Proposed Action/Works	Promoter	Status	Estimated Timescales Recommendation / Scheme Completion	S19 Report File Reference		
17	20 July 2014	Stamford	Water Street Following a short period of heavy intense rain, surface water from the highway entered the ground floor of the property. 1 Property	1	Completed	LCC to undertake a drainage survey of the system this work has been programmed for 2015	LCC - Yes	carry out a survey of the drainage system Works are programmed during 2015.	No	Due to complete Summer 2015	On-going	End 2015	S19-116	
18	24 August 2015	Grantham	Coxmoor Close Cavendish Way Reports received stated that on 24th August and 14th September 2015 water entered 4 properties, 2 on Cavendish Way and 2 on Coxmoor Close. The incidents were caused by excessive rainfall which lead to the levels of the adjacent Witham Brook to rise substantially with the resultant flood water escaping the banks of the stream and entering several of the nearby properties. The rise in the level of this stream also meant that the surface water sewer that services the roads in the area had nowhere to discharge to and this exacerbated the problems experienced by the residents. 4 properties	4	Completed	The Witham Brook requires major maintenance works, which will need to be carried out by the EA. A trash screen will also need to be installed by the EA. They also need to investigate the possible construction of a storage lagoon in association with SKDC & LCC.	LCC - Yes Anglian Water - Yes Environment Agency - Yes	EA recently commissioned works to reprofile the channel of the Witham Brook in this area and these works have now been completed. The scheme also included the creation of a berm to increase water storage in the area. LCC investigating the feasibility of a scheme to reduce frequency of surface water flooding from Witham Brook, which would also reduce flooding to the small number of properties at risk of flooding from the main river.		LCC EA	On-going		S19-136	
19	24 August 2015	Westborough	Town Street Water entered rear of property during severe rain fall. 1 property	1	Completed	Upper Witham IDB is aware of the flood risk issues within the village and have designed a scheme. Currently awaiting funding.	Upper Witham IDB - Yes	Await implementation of IDB drainage scheme. Funding awarded.		Upper Witham IDB	On-going		S19-144	
20	24 August 2015	Grantham	Bridge End Road Date of Incident – all on the evening of 24/8/15 (all retrospective enquiries) Source of Report – Lincolnshire Fire & Rescue (F&R) Enquiry code – FL06 Flood Invst Risk to Life/Prop Detail of each report – site was attended by F&R reacting to flooding - 1 property	1	Completed	Initial investigations M Thornhill letter sent out to resident 14/09/2015. Awaiting confirmation of internal flooding.	LCC - Yes Anglian Water - Yes	Awaiting report	No		On-going		S19-147	
21	4 July 2015	Tallington	Bainton Road The customer informed me that the main cause of flooding is water backing up coming out of the four gullies in front of property. These gullies are LCC, but the LCC system here feeds into a AW surface sewer about 10-15m downstream. Water backs up and comes out of the LCC gullies, I assume from the AW surface sewer and then floods the property. AW have been doing a lot of investigation into this system over the past few months. 1 property	1	Completed	The gullies are programmed to be cleaned and jetted out to ensure the system is flowing well. Due to the proximity to the level crossing a risk assessment is required to be signed off by Network Rail prior to any works commencing. AW to investigate the sewer system and inspect and service the flood gates at the property to ensure they are fit for purpose.	LCC - Yes Anglian Water - Yes	A program of gully cleaning to be carried out shortly, also AW to inspect and service the flood gates at the property that they installed. Following further investigation the classification of the AW sewer is currently under review.	No	LCC AW	On-going	Summer 2019	S19-129	
22	15 June 2016	Welbourn	Cliff Road Water is not flowing now but this morning just before caller got up he says there was a heavy downpour. The surface water has entered callers kitchen and living room on the ground floor. The road was surface dressed recently and caller thinks this is possibly the reason why it has entered the property 1 property	1	On-going	Due to no previous flooding prior to surface dressing it is recommended to lift all the centre kerbs to re-establish a 25mm upstand. In agreement with resident, it is recommended to raise the existing kerbs directly outside footpath to a full 110mm upstand. Dyke also to be unblocked to allow gully to catch surface water and outfall into dyke.	LCC - Yes	Due to no previous flooding prior to surface dressing it is recommended to lift all the centre kerbs to re-establish a 25mm upstand. In agreement with resident, it is recommended to raise the existing kerbs directly outside footpath to a full 110mm upstand. Dyke also to be unblocked to allow gully to catch surface water and outfall into dyke.		LCC	On-going		S19-167	
23	16 June 2016	Potterhanworth	Station Road (Under Railway Bridge) Police are requesting a road closure at this location. Carriageway flooded	0	Completed	Repeat of previous flooding. Refer to S19-131.		Repeat of previous flooding. Refer to S19-131.			On-going		S19-131	
24	6 July 2012	Billingborough	West Road The village of Billingborough suffered surface water flooding on West Road and Station Road on the 5 th July 2012 and 22 nd May 2014. Billingborough Parish Council made Lincolnshire County Council aware of this fact in August 2014, however, Lincolnshire County Council had not received any other reports that two residential properties were internally flooded during the event on 22 May 2014. These internal flood events were not reported to Lincolnshire County Council at the time of the incident. 2 properties	2	Completed	A part CCTV survey was conducted by Anglian Water in March/April 2015. This had identified bricks missing from the soffit of the brick culvert and mass root ingress into the culvert in a section in Station Road. At the time of writing this report Anglian Water were preparing to carry out excavations in the affect area to repair the culvert and once this was carried out, full jetting of the sytem was to take place and CCTV survey to contiue. Local Lead Flood Authority, Anglian Water and Lincolnshire County Council as Highway Authority to contune liaison and monitoring of the area. Upon publication of the Enviornment Agencies catchment study all risk Management Authorities to consider where appropriate any conclusions or recommendations derived from this study. LCC have carried out the level survey works to protect the properties and will be completed by 31/03/2017.	LCC - Yes Anglian Water - Yes	Anglian Water were preparing to carry out excavations in the affect area to repair the culvert and once this was carried out, full jetting of the sytem was to take place and Local Lead Flood Authority, Anglian Water and Lincolnshire County Council as Highway Authority to contune liaison and monitoring of the area. CCTV survey to contiue. County Council as the Highway Authority to carry out a full level survey of the road levels to see if any accomadation/adjustment works could take place to reduce the possibility of highway surface water reaching the properties. AWS have completed their surveys and any works required by summer 2017. Minor works have been carried out by LCC Highways to provide a water check	No	LCC Anglian Water	On-going	Summer 2017	S19-162	

Duty to Investigate													
Section 19 Investigations													
Lincolnshire County Council Section 19 Investigations - North Kesteven District Council & South Kesteven District Council Network Area - Area Highways Rowan Smith (West)													
Date of Incident	Town / Locality		Description of Flooding	No of Properties Flooded	Risk Management Authorities with Responsibilities and whether they are exercising functions	Actions and Recommendations	Consideration for inclusion in future Common Works Programme	Proposed Action/Works	Promoter	Status	Estimated Timescales Recommendation / Scheme Completion	S19 Report File Reference	
22 May 2014	Billingborough	West Road Station Road	The village of Billingborough suffered surface water flooding on West Road and Station Road on the 5 th July 2012 and 22 nd May 2014. Billingborough Parish Council made Lincolnshire County Council aware of this fact in August 2014, however, Lincolnshire County Council had not received any other reports that two residential properties were internally flooded during the event on 22 May 2014. These internal flood events were not reported to Lincolnshire County Council at the time of the incident. 2 properties	2	Completed	A part CCTV survey was conducted by Anglian Water in March/April 2015. This had identified bricks missing from the soffit of the brick culvert and mass root ingress into the culvert in a section in Station Road. At the time of writing this report Anglian Water were preparing to carry out excavations in the affect area to repair the culvert and once this was carried out, full jetting of the sytem was to take place and CCTV survey to contiue. Local Lead Flood Authority, Anglian Water and Lincolnshire County Council as Highway Authority to contune liaison and monitoring of the area. Upon publication of the Enviornment Agencies catchment study all risk Management Authorities to consider where appropriate any conclusions or recommendations derived from this study. LCC have carried out the level survey works to protect the properties and will be compited by 31/03/2017.	LCC - Yes Anglian Water - Yes	Anglian Water repaired the culvert and jettted the system, the area continues to be monitored. CCTV survey to contiue. County Council as the Highway Authority to carry out a full level survey of the road levels to see if any accomadation/adjustment works could take place to reduce the possibility of highway surface water reaching the properties. AWS have completed their surveys and any works required by summer 2017. Minor works have been carried out by LCC Highways to provide a water check across the frontage.	No	LCC Anglian Water	On-going	Summer 2017	S19-162
24 August 2015	Long Bennington	Main Road Vicarage Lane Welbournes Lane Acklands Lane Church Street Orchards Park	The incident appears to be simply one where heavy rain overwhelmed the piped sewer and watercourse systems. The rain could not enter the various systems, found overland routes and settled in the low points. These overland routes were channelled by the fall of the natural ground level, augmented by the new developments and/or householders - increasing hard standing - using soakaways and permeable pavements - undertaking topographical realignment. Some of the village is served by a combined public sewer and this was likewise overwhelmed and caused flooding. 25 properties Main Road - 13 properties Vicarage Lane - 2 properties Welbournes Lane - 3 properties Acklands Lane - 1 property Church Street - 5 properties Orchard Park - 1 property	25	Completed	Investigations into conditions of drainage assets have already been carried out by LCC, AW/STW and IDBs, with remedial action taken as appropriate, mainly to do with cleansing. It is recommended that - there is further investigation undertaken to determine possible overland flow paths and storage areas, - the RMAs continue to repair deficiencies, - watercourses are cleansed and desilted, including those culverted lengths - the planning authority or appropriate authority apply relevant policies when considering how proposals affect groundwater, current exceedance flow routes and potential loss of safe flood storage.	LCC - Yes LLFA - Yes Anglian Water - Yes STW - Yes SKDC - Yes UWIDB - Yes TVIDB - Yes	There is a further investigation undertaken to determine possible overland flow. Paths and storage areas. The RMAs continue to repair deficiencies. Watercourses are cleansed and desilted, including those culverted lengths. Include potential flood alleviation scheme in the Medium Term Plan. AW have cleansed their SW sewers.	Yes	LCC	On-going	2019/20	S19-137
14 June 2016	Woolthorpe by Belvoir	Sedgebrook Road Hillside Road	Internal flooding - fire and rescue in attendance with pumps and sandbags distributed by SKDC 6 properties	6	On-going	Report and investigation being undertaken. Report expected July 2017.					On-going		S19-178
15 June 2016	South Witham	Great Close	Caller reports that water entered the property last night at each of the addresses. SKDC supplied sandbags to all of them. 1 property	1	On-going	Written twice and no reply or evidence apart from the report which was second hand.		Awaiting report.			On-going		S19-173
14 June 2016	Bourne	Beech Avenue	Fire & Rescue called, 4 fire engines attended – pump used to remove flood water inside. 1 property	1	Completed	The culverted watercourse does not have an adequate hydraulic capacity to accept the up stream run off. The route of the downstream public sewer system, with sahrp changes of direction, could be a contributing facor to the flooding issues. Maintenance of existing system and further investigations into mitigation including improvements and other flood risk management options.	LCC W&DIDB (on behalf of LCC) Black Sluice (on behalf of SKDC) AW	Maintenance of existing system and further investigations into mitigation including improvements and other flood risk management options.			On-going		S19-170
14 June 2016	Bourne	Edenham Road	Surface water gathers at a low point on the carriageway opposite the property, which overflows into the property causing the property to internally flood. The situation is exacerbated by passing vehicles washing water over the verge and onto the adhacent land. 1 property	1	Completed	The cause of flooding is due to capacity issues with the whole system, this is exacerbated by wash from vehicles passing through the flooded carriageway during significant storm events onto adjacent land. The riparean owners to be made aware of their riparean responsibilities.	LCC	Further investigations into ownership of the exisiting drainage system to enable future maintenance. Inform resident of their riparean responsibilities.		LCC	On-going		S19-194
10 April 2018	Potterhanworth	Station Road	Road closed due to flooding caused by surface water run off.	0	On-going	A job is planned for the 30.04.18 for a tanker and gang to attend site and clean the system.	LCC	A job is planned for a tanker and gang to attend site on the 30.04.18 to clean the system.		LCC	On-going		S19-131
02 June 2018	Leadenham	Main Road High Street	Surface water flooding. 5 properties	5	On-going	TBC		TBC			On-going		S19-202
02 June 2018	Brant Broughton	High Street	Surface water flooding. 1 property	1	On-going	TBC	TBC	TBC			On-going		S19-205
TBC	Billinghay	Tattershall Road	Surface water flooding. The landlord reports that the cottage has been internally flooded on more than one occasion, the most recent being in the last week or so sometime in the w.c 9 June 2018. This is a repeat occurance see S19-051. 1 property	1	On-going	TBC	TBC	TBC			On-going		S19-207
TBC	Brandon	Church Lane	Surface water flooding. The property internally flooded sometime in the w.c. after 2 June 2018. 1 property	1	On-going	TBC	TBC	TBC			On-going		S19-208
02 June 2018	Stragglethorpe	Church Lane	Surface water flooding. 1 property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-215

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2	Duty to Investigate													
3	Section 19 Investigations													
4	Lincolnshire County Council Section 19 Investigations - North Kesteven District Council & South Kesteven District Council Network Area - Area Highways Rowan Smith (West)													
5	Date of Incident	Town / Locality		Description of Flooding	No of Properties Flooded	Risk Management Authorities with Responsibilities and whether they are exercising functions	Actions and Recommendations	Consideration for inclusion in future Common Works Programme	Proposed Action/Works	Promoter	Status	Estimated Timescales Recommendation / Scheme Completion	S19 Report File Reference	
37	14 August 2018	Brant Broughton	High Street	Surface water caused flooding to the front of the shop. 1 commercial property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-218

Date of Incident	Town / Locality	Street / Road Name	Description of Flooding	No of Properties Flooded	Investigation Status	S19 Report Recommendations / Conclusions	Risk Management Authorities with Responsibilities and whether they are exercising functions	Proposed Action/Works	Consideration for inclusion in future Common Works Programme	Promoter	Works Status	Estimated Timescales Recommendation / Scheme Completion	S19 Report File Reference
6 July 2012	Donington	Quadring Road	The footway along the front of the property is lower than the carriageway and has its own series of gullies. The carriageway is served by gullies and drained separately. The Highway Authority (LCC) has no records of the carriageway or footway drainage piped system in this area. 1 property	1	Completed		LCC - Yes			LCC	On-going		S19-039
20 July 2014	Swineshead	Market Place	Flooding to the business occurred following a heavy downpour. The business suffered internal flooding due to surface water runoff from the carriageway entering the car park and subsequently entering the property. 1 commercial property	1	Completed	The entire drainage system has been jetted and cleaned; a new connection from both of the alleys is programmed. The drainage system requires a new chamber and new connections to the highway drainage system in the carriageway. The adjacent property owner has an irregular outfall into the alley way; he has been notified to find an alternative way to discharge surface water from the property. Additionally, the low spots in the alley way that allows surface water to flow from the highway around the back of the public house will require modifying to provide a water check to prevent this re-occurring. All works required will be programmed for 2015.	LCC - Yes	New connections, chamber pots and minor highway alterations are currently in the works programme for next financial year.	No	LCC	On-going	Summer 2015	S19-103
20 July 2014	Crowland	Chapel Street	The road gully outside the property was unable to cope with the excessive amount of rainfall which resulted in surface water entering into the property, causing damage to the dining room and lounge. 1 property	1	Completed	The drainage system has been jetted; and indicated a possible blockage within the system. Excavations have been carried out and no blockage was detected within the drainage system. Since the reported incident there has been further heavy prolonged downpours within the area with no repeat of the previous flooding incident in July. It has been concluded that the current system is slow running and the surface water was exasperated due to the excessive amount of roof water flowing onto the highway from the property opposite. Further investigations will be carried out in due course.	LCC - Yes	Further Drainage Investigations to be carried out in due course. An enforcement letter has been sent to the property opposite which is discharging water onto the highway. Meeting with owner of property opposite to identify any ammendments which may be required to their roof water dispersal system. Preliminary designs, undertaken for proposed alterations to LCC Surface Water drainage. Scheme in programme for 2017/18. Bid submitted for assistance from Floods and Water as this is not maintenance.	No	LCC	On-going	8 July 1905	S19-113
27 June 2016	Freiston	Oak House Lane	Customer states that the rain flows down the road and into the shop. The customer has requested the fire brigade attend last year and they had to pump the shop out. The shop flooded again yesterday 26/06/16 and they managed to clear it themselves with a lot of work and help. The customer states there was a new drain put in, but this is doing nothing to alleviate the situation. 1 property	1	On-going	Awaiting report		Awaiting report			On-going		S19-181
28 June 2017	Kirton	London Road	Water came off the highway into neighbours drive and garden which then travelled to customers property. Water is getting into the air bricks and damaging the wallpaper and flooring. 1 property	1	Completed	The property reportedly flooded on 16 June 2016 also. The report concluded that - the property was flooded by a less than extreme rainfall event. - The soakaways serving the properties were unable to deal with the flow. - The highway drainage system is unable to fully serve the highway and there is no single discharge system. - There is a culverted watercourse on both sides of London Road, which along with other riparian controlled watercourses do not appear to benefit from maintenance.	TBC				On-going		S19-189
Aug-18	Swineshead	Coles Lane	Surface or ground water entering the foul system causing it to surcharge. 1 property	1	Complete	It has not been confirmed that a property has suffered internal flooding from surface water as a direct result of deficiencies in a surface water drainage system. However, there appears to be a correlation between volume of rainfall and failure of the foul water sewerage system.	LCC AW Black Slucie EA BBC	TBC			On-going		S19-200
27 July 2018	Surfleet	Gosberton Road	Surface water flooding caused property to internally flood. Customer states that the gully and drains were blocked and compounded the problem. 1 property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-209
13 August 2018	Spalding	Pennygate	Surface water flowed from the road, over the path and into the shop. 1 property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-216
13 August 2018	Kirton	Station Road	Surface water flooding. 3 properties	3	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-217
13 August 2018	Gosberton	Wargate Way	Surface water flowed over the pavement and into the property which is two meters from the highway. 1 property	1	On-going	Awaiting report	TBC	TBC		TBC	On-going		S19-219

Open Report on behalf of David Coleman, Chief Legal Officer

Report to:	Flood and Water Management Scrutiny Committee
Date:	11 February 2019
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 for the coming year 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 (Appendix A).

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.

Following the review of overview and scrutiny and decisions of the County Council, the Committee's the terms of reference are set out in Appendix B.

Actions Required:

The Committee is invited to:

- (1) review, consider and comment on the work programme as set out in Appendix A to this report;
- (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.

Purpose of Scrutiny Activity

Set out below are the definitions used to describe the types of scrutiny, relating to the items on the Committee Work Programme:

Policy Development - The Committee is involved in the development of policy, usually at an early stage, where a range of options are being considered.

Policy Review - The Committee is reviewing the implementation of policy, to consider the success, impact, outcomes and performance.

Performance Scrutiny - The Committee is scrutinising periodic performance, issue specific performance or external inspection reports.

Consultation - The Committee is responding to (or making arrangements to) respond to a consultation, either formally or informally. This includes pre-consultation engagement.

Requests for specific items for information should be dealt with by other means, for instance briefing papers to members.

Identifying Topics

Selecting the right topics where scrutiny can add value is essential in order for scrutiny to be a positive influence on the work of the Council. Members may wish to consider the following questions when highlighting potential topics for discussion to the committee:-

- Will Scrutiny input add value?
Is there a clear objective for scrutinising the topic, what are the identifiable benefits and what is the likelihood of achieving a desired outcome?
- Is the topic a concern to local residents?
Does the topic have a potential impact for one or more section(s) of the local population?
- Is the topic a Council or partner priority area?
Does the topic relate to council corporate priority areas and is there a high level of budgetary commitment to the service/policy area?

- Are there relevant external factors relating to the issue?
Is the topic a central government priority area or is it a result of new government guidance or legislation?

Terms of Reference

The Flood and Water Management Committee will be authorised to consider the following:

- The development and delivery of the Local Flood Risk Management Strategy; including the delivery of the Lincolnshire Common Works Programme.
- The effectiveness of the Lincolnshire Flood Risk and Drainage Management Partnership and related partnership developments.
- Lincolnshire County Council's delivery of its local leadership role in relation to flood and water management.
- The work of all flood risk management authorities operating within Lincolnshire.
- The local implementation of the Environment Agency-led National Strategy for Flood Risk and Coastal Erosion.
- Action plans relating to all relevant plans and strategies, such as (but not exclusively) Shoreline Management Plans and Catchment Flood Management Plans (main rivers).
- All major strategic initiatives relating to water management.
- The Greater Lincolnshire Local Enterprise Partnership's Water Management Board, including the development and implementation of its Water Management Plan.
- Any other matter with particular relevance to flood risk and water management within Lincolnshire or likely to affect Lincolnshire.

2. Conclusion

The Committee's work programme for the coming year is attached at Appendix A to this report.

Members of the Committee are invited to review, consider and comment on the work programme as set out in Appendix A 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' listed.

3. Consultation

a) Have Risks and Impact Analysis been carried out?

Not Applicable

b) Risks and Impact Analysis

Not Applicable

4. Appendices

These are listed below and attached at the back of the report	
Appendix A	Flood and Water Management Scrutiny Committee – Work Programme

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 Daniel Steel, Scrutiny Officer, who can be contacted on 01522 552102 or via email Daniel.steel@lincolnshire.gov.uk ,

Flood and Water Management Scrutiny Committee

11 FEBRUARY 2019 – 10:00am		
Item	Contributor	Purpose
Update on Sustainable Drainage and Design and Evaluation Guide	Warren Peppard, Flood Risk & Development Manager	Verbal Update
Environment Agency Update	Deborah Campbell Environment Agency	Updates to the Committee on Environmental Agency Activities, including progress on key schemes.
Environment Agency Maintenance Arrangements Update	Peter Riley Environment Agency	Update to the Committee on EA Maintenance Arrangements in Lincolnshire.
Boston Barrier Update	Deborah Campbell Environment Agency	Presentation on the progress towards the Boston Barrier development.
Wrangle Bank Flood Defence Project	Peter Bateson, Witham Fourth District IDB	Review of the completion of the Wrangle Bank flood defence project.
LRF Resilience Communities project	Steve Eason-Harris Ian Reed	Overview of the LRF Resilience Communities project and our new text alerting service that enables two way communications with engaged community groups.
Investigations undertaken under Section 19 of the Flood and Water Management Act 2010	Paul Brookes, Flood Risk Manager	This item provides the latest position of all the current investigations in the County under Section 19 of the Flood and Water Management Act 2010.

28 MAY 2019 – 10:00am		
Item	Contributor	Purpose
Environment Agency Update	Environment Agency	Updates to Committee on Environmental Agency Activities, including progress on key schemes.
Investigations undertaken under Section 19 of the Flood and Water Management Act 2010	Paul Brookes, Flood Risk Manager	This item provides the latest position of all the current investigations in the County under Section 19 of the Flood and Water Management Act 2010

For more information about the work of the Flood and Water Management Scrutiny Committee please contact Daniel Steel, Scrutiny Officer on 01522 552102 or by e-mail at daniel.steel@lincolnshire.gov.uk

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