



County Offices  
Newland  
Lincoln  
LN1 1YL

3 December 2015

**Flood and Drainage Management Scrutiny Committee**

A meeting of the Flood and Drainage Management Scrutiny Committee will be held on **Friday, 11 December 2015 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 black ink, appearing to be 'Tony McArdle', written over a horizontal line.

Tony McArdle  
Chief Executive

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

Councillors C L Strange (Chairman), Mrs V C Ayling (Vice-Chairman), A M Austin, C J T H Brewis, A Bridges, M Brookes, R G Fairman, J R Marriott, C R Oxby, C Pain and R A Renshaw

Other Voting Members

District Councillors: R Austin, Boston Borough Council  
I G Fleetwood, West Lindsey District Council  
D Jackson, City of Lincoln Council  
Mrs F M Martin MBE, East Lindsey District Council  
J Money, North Kesteven District Council  
B Russell, South Kesteven District Council  
M D Seymour, South Holland District Council



**FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE AGENDA  
FRIDAY, 11 DECEMBER 2015**

<b>Item</b>	<b>Title</b>	<b>Pages</b>
<b>1</b>	<b>Apologies/Replacement Members</b>	
<b>2</b>	<b>Declarations of Members' Interests</b>	
<b>3</b>	<b>Minutes of the previous meeting of the Flood and Drainage Management Scrutiny Committee held on 4 September 2015</b>	5 - 14
<b>4</b>	<b>Announcements by the Executive Councillor, Economic Development, Environment, Planning and Tourism and Senior Officers (Economy and Place)</b>	Verbal Report
<b>5</b>	<b>Wrangle Sea Banks</b> <i>(To receive a report by Mark Welsh, Flood Risk and Development Manager, which enables the Committee to consider the Wrangle Sea Banks scheme, for which the Witham Fourth District Internal Drainage Board is the lead agency. The Chief Executive of the Witham Fourth District IDB, Peter Bateson, will be attending the meeting to present this item)</i>	15 - 18
<b>6</b>	<b>Louth and Horncastle Flood Alleviation Schemes</b> <i>(To receive a report by Deborah Campbell, Environment Agency, which outlines progress made on implementing flood alleviation schemes for Louth and Horncastle)</i>	19 - 22
<b>7</b>	<b>Boston Barrier Update</b> <i>(To receive a report by Deborah Campbell, Environment Agency, which outlines progress made on the Boston Barrier)</i>	23 - 24
<b>8</b>	<b>Black Sluice Catchment</b> <i>(To receive a joint report from Deborah Campbell, Environment Agency, and Ian Warsap, Chief Executive Black Sluice Internal Drainage Board, which provides the Committee with an update on the Black Sluice Catchment. The Chairman of the Black Sluice Internal Drainage Board, Keith Casswell will also be attending the meeting)</i>	25 - 30
<b>9</b>	<b>Common Works Programme &amp; Lincolnshire County Council Capital Schemes 2015-16</b> <i>(To receive a joint report by Mark Welsh, Flood Risk and Development Manager and David Hickman, Environment Commissioner, which provides the Committee with the latest position on the Common Works Programme for 2015-16, including the current programme for surface water management schemes)</i>	31 - 34

- 10 Investigations undertaken under Section 19 of the Flood & Water Management Act 2010** 35 - 96  
*(To receive a standing report by Mark Welsh, Flood Risk and Development Manager, on the position of all current Section 19 investigations in the County under Section 19 of the Flood and Water Management Act 2010)*
- 11 Flood and Drainage Management Scrutiny Committee Work Programme** 97 - 100  
*(A report by Simon Evans, Health Scrutiny Officer, in connection with the latest position of the Committee's Work Programme)*

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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
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Contact details set out above.

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**FLOOD AND DRAINAGE  
MANAGEMENT SCRUTINY  
COMMITTEE  
4 SEPTEMBER 2015**

**PRESENT: COUNCILLOR C L STRANGE (CHAIRMAN)**

Councillors Mrs V C Ayling (Vice-Chairman), A M Austin, C J T H Brewis, A Bridges, M Brookes, R G Fairman, J R Marriott, C R Oxby, C Pain and R A Renshaw

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

External Agencies – Deborah Campbell (Environment Agency) and Alan Simpson (Anglian Water)

Councillors C J Davie, D C Hoyes MBE, A H Turner MBE JP, S M Tweedale and W S Webb, attended the meeting and spoke where appropriate

Officers in attendance:-

Steve Blagg (Democratic Services Officer), David Hickman (Environmental Services Team Leader (Strategy and Partnership), Louise Tyers (Scrutiny Officer), Steve Willis (Chief Operating Officer), Mark Welsh (Flood, Risk and Development Manager) and Andrew Jee (Projects Officer)

**12 APOLOGIES/REPLACEMENT MEMBERS**

Apologies for absence were received from District Councillor J Money (North Kesteven District Council), Sam Markillie (South Holland Drainage Board) and David Sisson (Lindsey Marsh Drainage Board)

**13 DECLARATIONS OF MEMBERS' INTERESTS**

Councillor M Brookes requested that a note should be made in the minutes that he was a member of the Black Sluice Internal Drainage Board (minute 18).

District Councillor R Austin requested that a note should be made in the minutes that he was a member of the Black Sluice Internal Drainage Board (minute 18).

Councillor C J T H Brewis requested that a note should be made in the minutes that he was a member of the North Level District Internal Drainage Board (minute 18).

**FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE  
4 SEPTEMBER 2015**

District Councillor B Russell requested that a note should be made in the minutes that he was a member of the Black Sluice Internal Drainage Board (minute 18).

District Councillor I G Fleetwood requested that a note should be made in the minutes that he was a member of the Witham Third Internal Drainage Board (minute 18).

District Councillor M D Seymour (South Holland District Council) requested that a note should be made in the minutes that he was a member of

14 MINUTES OF THE PREVIOUS MEETING OF THE FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE HELD ON 29 MAY 2015

RESOLVED

That the minutes of the previous meeting of the Flood and Drainage Management Scrutiny Committee held on 29 May, 2015, be agreed as a correct record and signed by the Chairman.

Councillor C J T H Brewis stated that he was satisfied with the reply he had received from officers in connection with the direction of travel and routes proposed in the south east of the county (minute 5).

Deborah Campbell stated that she would reply to the emails from Councillor C Pain in connection with the River Steeping (minute 8).

15 ANNOUNCEMENTS BY THE EXECUTIVE COUNCILLOR, ECONOMIC DEVELOPMENT, ENVIRONMENT, PLANNING AND TOURISM AND SENIOR OFFICERS (ECONOMY AND PLACE)

Executive Councillor C J Davie made the following announcements:-

1. He had attended the opening ceremony of the start of the Louth flood alleviation scheme and emphasised the importance of the scheme for the town of Louth.
2. Stated that David Powell, the Emergency Planning Officer, had met District Councils in connection with the emergency evacuation signage and they had given their agreement for the scheme to proceed.
3. Referred to a meeting on 25 September 2015, with major investors, business leaders and local MPs to discuss the opportunities and challenges for the east coast.

Steve Willis stated that construction of a new Visitor Centre at Gibraltar Point had begun and was expected to finish by Easter 2016.

16 ANGLIAN WATER - GROWTH AND THE IMPACT ON INFRASTRUCTURE

Allan Simpson, Anglian Water, gave a presentation on growth and its impact on infrastructure; the legislation and regulation covering the water industry; engagement

in planning and how Anglian Water got involved and the opportunities and challenges faced by Anglian Water.

Comments by the Committee included:-

1. Invitations to schools to visit Anglian Water plants were welcomed.
2. Was septicity still a problem in the sewerage system?
3. Was there now less necessity to dig up roads to access pipework?
4. There was a lot of new development taking place in Boston and in some areas the sewerage system could not cope because of its age.
5. Anglian Water had, in some instances, blamed users of the sewerage system but was it the inability of the system to cope?
6. Some repairs carried out by Anglian Water appeared only to be temporary. Was it possible to carry out more permanent repairs to prevent leaks?
7. During heavy rain in Boston and in the Wyberton and St Thomas, south of Boston, surface water flooding was a problem and seemed to be caused by blocked pumps. If people were putting inappropriate material into the system then Anglian Water should clear the pumps as soon as possible.
8. There were similar issues of surface water flooding in Horncastle which was facing an unprecedented number of planning applications for housing from developers and Anglian Water did not have the structural capacity to cope with numerous sites.
9. Anglian Water should be a statutory consultee for planning applications involving growth and it was important that District Planning Authorities worked closely with Anglian Water. Should Anglian Water require any help in this area, e.g. the lobbying of MPs, then it should not hesitate to seek the help of the County Council.

Allan Simpson responded to comments made by the Committee as follows:-

1. Technology existed to address septicity in the sewerage system.
2. It was possible to line pipes without digging up roads but it was not feasible in some areas.
3. Anglian Water was examining if old infrastructure existed. The company was trying to improve connection points in the system but it was a challenge in some areas. Members were requested to notify Anglian Water if they were aware of any poor infrastructure to enable the necessary investment to take place.
4. There were operational issues caused by fats being put into the sewerage system and Anglian Water had an education programme in place to address this problem.
5. Surface water connections into the sewerage system were being examined.
6. Anglian Water was aware of the issue of temporary repairs with the company liable to fines for regular leaks by Ofwat.
7. Anglian Water faced fines for flooding caused by blocked pumps and was examining innovative solutions to address this problem.
8. Accumulative development in Horncastle would be examined followed by further examination in the later stages of development to ensure that there was capacity in the system.
9. Anglian Water was currently consulted in connection with the Local Plan and Neighbourhood Plans but not individual planning applications.

**FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE  
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Executive Councillor Colin Davie stated that he had been a member of the Customer Engagement Forum set up by Anglian Water and complimented Anglian Water for its arrangements for consulting the public and working with the Local Enterprise Partnership. He supported the proposal that Anglian Water should be a statutory consultee for planning applications as they provided an important service to the public. He stated that when Local Plans came before an Inspector during Public Examination it was important that the Inspector was challenged on the need for the necessary infrastructure to be in place before any development was started.

Executive Councillor Colin Davie stated that blocked sewerage pipes were still an issue along the east coast and businesses in this area needed to be reminded of their responsibilities to ensure that inappropriate material was not put into the sewerage system.

Executive Councillor Colin Davie requested that he would like to see the number of planning applications Anglian Water were consulted upon by the District Planning Authorities so that areas of pressure could be examined when it was identified Anglian Water had not been consulted. The Chairman stated that this information should also be brought to the Committee for consideration.

**RESOLVED**

(a) That the comments made by the Committee in connection with Allan Simpson's presentation be noted and actioned accordingly.

(b) That Executive Councillor Colin Davie's request to be provided with details of the number of planning applications sent to Anglian Water by District Planning Authorities be actioned by Anglian Water and that this information be considered by the Committee.

**17 LOUTH AND HORNCASTLE FLOOD ALLEVIATION SCHEMES**

The Committee received a report in connection with progress on implementing flood alleviation schemes for Louth and Horncastle.

With regard to Louth, officers referred to the media event on 11 August 2015, to mark the start of construction work. Discussions with landowners in connection with compensation were continuing and the project was expected to be completed in May 2016.

With regard to Horncastle, timber posts had been discovered during preliminary archaeological explorations dating from the Stone Age with the discovery creating local interest. Innovative work was on-going with the contractor and the County Council's Archaeologist to work around this find. The cost and timetable for the project was likely to be affected by this discovery but no delay was expected in delivering the project. Discussions with local landowners were progressing well.



Comments made by the Committee included:-

1. District Councillor Mrs Fiona Martin MBE, Ward Councillor for Horncastle, stated that she had attended the opening ceremony at Louth and thanked everyone for the starts on sites.
2. Who should the public consult if anything went wrong either during the construction stage or on completion of the projects?
3. The cost of household insurance should reduce when the projects were completed.

Officers stated the contractor was responsible during the construction stages of the projects and when the projects were completed then the Environment Agency would be responsible.

Officers stated the cost of household insurance was dependent on the outcome of a national survey being carried out by the Environment Agency.

RESOLVED

That the report and comments made by the Committee report be noted.

18      ENVIRONMENT AGENCY CONSULTATION ON THE FUTURE  
MANAGEMENT OF THE BLACK SLUICE DRAIN AND PUMPING STATION

The Committee received a report in connection with the Environment Agency's ongoing Black Sluice Catchment consultation, how this might impact on the Black Sluice Pumping Station and the implications for the establishment of Boston as a waterways destination. The consultation ran until 27 September 2015 and a number of public consultation events had been arranged by the Environment Agency. Officers stated that the effects of flooding and water level management in the area covered by the Black Sluice and Boston had been examined and emphasised the importance of ensuring that the County Council achieved its aspirations for water management in the Boston area in the future.

Councillor W S Webb, a member of the Anglian Regional Flood Committee, was allowed to speak on this matter in a personal capacity and with knowledge of drainage. He commented as follows:-

1. The Black Sluice Pumping Station was of huge importance to the South Forty Foot Water drainage catchment area which contained Grade 1 and 2 agricultural land.
2. The land in this area drained into the Black Sluice Pumping Station and it was important to control the water level.
3. Three of the five pumps had been damaged during the tidal surge in December 2013 and had not been repaired to his surprise.
4. He considered that the pumps were repairable and that the estimated cost of repair of £5-£10m was too high.
5. An engineer should be asked to examine the pumps to assess the cost of repair.
6. He was surprised the Environment Agency had not deepened or widened the South Forty Foot Drain.

7. Failure to comply would lead to flooding similar to that in the Somerset Levels a few years ago.
8. The County Council's response to the consultation detailed in the report did not address flooding issues.
9. The South Forty Foot Drain was a drainage river.
10. He supported Black Sluice Drainage Board's response to the consultation.

Comments made by the Committee included:-

1. The South Forty Foot catchment area contained very fertile agricultural land.
2. How was the value of agricultural land measured compared to its use for development?
3. Councillor W S Webb's views were supported.
4. The views of the Chief Executive of the Black Sluice Internal Drainage Board should be sought.
5. The Environment Agency was working in partnership with the Black Sluice Internal Drainage Board on this matter.
6. The cost of repairing the pumps would be cheaper than their replacement.
7. Executive Councillor C J Davie should consult the Chief Executive of the Black Sluice Internal Drainage Board before he sent his response to the Environment Agency.
8. If the pumps did not work then the Boston Barrier would not work.
9. The cost of repairing the pumps should be investigated.
10. It was noted that the Leader of the County Council had made a statement that he thought the money could be found to repair the pumps.
11. The public would be concerned if the pumps were not working.
12. The effects on tourism in Boston and a boost to the local economy if the pumps were maintained.
13. The importance of agriculture for the nation.
14. If it was not possible to get rid of the water from the South Forty Foot Drain then the effects would be felt nationwide.

Executive Councillor C J Davie agreed that agricultural land in the Black Sluice catchment area was important for food production; that the Boston Barrier was important for the economic benefit of Boston; that the Anglian Regional Flood Committee had asked the Black Sluice Internal Drainage Board and the Environment Agency to come up with a solution before the County Council submitted its response to consultation; stated that he would like to see all of the responses of the consultation exercise; was concerned about the cost of repairs and stated that he wanted to hear the views of the Chief Executive of the Black Sluice Internal Drainage Board on the possible refurbishment of the pumps.

Officers' responses to the comments made by the Committee included:-

1. An engineer had examined the pumps and had stated that due to their age, (60 years), the cost of repairing them was expensive. Details of the costs would be sent to the Committee.

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2. The widening of the stream above the pumping station had been examined but the cost made the scheme unviable. Details of these costs would be brought to the Committee.
3. The Environment Agency had worked closely with the Black Sluice Internal Drainage Board when the pumps had been turned off.
4. With regard to the value of agricultural land the Environment Agency worked within the Defra Framework, the NFU and the Treasury Green Book. Details of how the cost was calculated would be brought back to the Committee.
5. With regard to the Water Level Management Plan and Boston regeneration when the economic case was examined for the Black Sluice Pumping Station the opportunity would be taken to examine partnership plans.
6. It was agreed that the Environment Agency would examine the pumps installed on the River Tydd by the North Level Internal Drainage Board as highlighted by Councillor C J T H Brewis.
7. When the pumps were first installed at Black Sluice sixty years ago the landscape was different to that of today.
8. There was a need to examine the revenue and capital costs of running the pumps and there was a need to follow the rules.
9. There was a need to examine drainage management in the county.

Executive Councillor C J Davie urged Members to respond to him and the Chairman of this Committee, on the consultation by 11 September 2015, and a response would be prepared. A copy of the response would be circulated to the Committee. He stated the importance of getting a balance between protecting agricultural land and ensuring that the opportunities for the economic regeneration of Boston were not missed.

**RESOLVED**

- (a) That the report and comments made by the Committee be noted and actioned accordingly.
- (b) That the Committee approve the proposal for a single co-ordinated response from the County Council from Executive Councillor C J Davie and Councillor C L Strange, Chairman of the Committee.
- (c) That this issue be considered again at the Committee's next meeting with the Chief Executive of the Black Sluice Internal Drainage Board being invited to the meeting.

**19      GREATER LINCOLNSHIRE LOCAL ENTERPRISE PARTNERSHIP  
(GLLEP) COASTAL VISION AND WATER MANAGEMENT PLAN**

The Committee received a report outlining recent initiatives led by the Greater Lincolnshire Local Enterprise Partnership to develop a clear set of objectives for Lincolnshire's coastal areas and to establish a Water Management Plan as a channel for accessing a wider range of Government and European funding for flood risk and water resource management in Lincolnshire. A first draft of the Coastal Vision was presented for the Committee to consider and on which comments were invited. Officers stated that it was hoped to complete the Coastal Vision by March 2016.

**FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE  
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Comments made by the Committee included:-

1. The figures detailed under the heading of "Strategic context" were important not just for the coast but for the county.
2. Flood risk affected economic development.
3. The construction of an off-shore reef and coastal footpath were essential for economic development and not just beach replenishment.
4. Frampton Marsh should be added to Appendix A of the report as it was a nationally recognised RSPB site.
5. Improved infrastructure was required but how would this be achieved?
6. Had other local authorities been consulted on the Coastal Vision?

Officers stated that the development of infrastructure was dependent on the approval of Local Plans and that neighbouring local authorities had been consulted about the development of the Coastal Vision.

RESOLVED

(a) That the comments made by the Committee be taken into consideration in the development of the draft Coastal Vision.

(b) That the timetable for completing the Coastal Vision by March 2016, be noted.

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

The Committee received a standard report on the position of all current Section 19 investigations in the County.

Comments made by the Committee included:-

1. The opportunity should be taken to utilise the machinery present in connection with the refurbishment of the new Gibraltar Point Centre to replace the flood banks?
2. Delays in addressing flooding issues at Toynton St Peter.

Officers stated that they would examine the issues raised by the Committee and that the recent flooding events in Long Bennington and Grantham would be investigated as part of the Section 19 investigations.

RESOLVED

That the report be noted and the comments raised by the Committee be examined by officers.

**FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE  
4 SEPTEMBER 2015**

21     FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE WORK  
PROGRAMME

The Committee received its Work Programme.

RESOLVED

That the Work Programme be noted and updated accordingly.

22     LOUISE TYERS, SCRUTINY OFFICER - LEAVING THE COUNCIL

The Chairman stated that this was Louise Tyers' last meeting before taking up a new position with East Northamptonshire Council and thanked her for services to the Committee wishing all of the best in her new post. He presented Louise with flowers to mark the occasion.

The meeting closed at 12.35 pm

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**Open Report on behalf of Richard Wills, Director responsible for Democratic Services**

Report to:	<b>Flood and Drainage Management Scrutiny Committee</b>
Date:	<b>11 December 2015</b>
Subject:	<b>Wrangle Sea Banks</b>

**Summary:**

This item enables the Flood and Drainage Management Scrutiny Committee to consider the Wrangle Sea Banks scheme, for which the Witham Fourth District Internal Drainage Board (IDB) is the lead agency. The Chief Executive of the Witham Fourth District IDB, Peter Bateson, is attending to present on this item and attached at Appendix A is a report on the scheme.

**Actions Required:**

To consider and comment on the Wrangle Sea Banks scheme.

**1. Background**

Appendix A is a report from Witham Fourth District Internal Drainage Board (IDB), which provides the Committee with information on the Wrangle Sea Banks flood defence scheme. The objective of the scheme is to raise and re-profile the sea defences to keep pace with climate change. The scheme includes contributions of up to 40 metres of farmland to provide the spoil to be used to re-profile the banks.

**2. Conclusion**

The Committee is requested to consider and comment on the Wrangle Sea Banks scheme.

**3. Consultation**

This is not a consultation item.

**4. Appendices**

These are listed below and attached at the back of the report

Appendix A	Witham Fourth District Internal Drainage Board – Capital Works Scheme: Wrangle Banks
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## **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 Simon Evans, who can be contacted on 01522 553607 or [simon.evans@lincolnshire.gov.uk](mailto:simon.evans@lincolnshire.gov.uk)



# Witham Fourth District Internal Drainage Board

## CAPITAL WORKS PROGRAMME

### Wrangle Sea Banks



*Photo of 2013 overtopping damage to sea banks*



*Photo of a similar re-profiled sea bank*

**Objective: To raise and re-profile sea defences to keep pace with climate change**

#### Details of works

- (1) An EA Wash Banks Survey in 2012 identified a 3-5km stretch of the sea defences near Wrangle that were the lowest along the Wash frontage. They are also, only a single line of defence;
- (2) They will be surveyed in 2016 to identify the existing profile of the banks, collect environmental information and to assess the full scope of the works required;
- (3) Landowners farming behind the sea defences will contribute up to 40 metres of farmland to provide the spoil to re-profile the sea banks. Traditional borrow pits are not currently possible owing to the SSSI status of the Wash;
- (4) Witham Fourth agreed to be the lead RMA on the project to enable local contractors to be used. This partnership approach together with the number of households protected, will enable an application for DEFRA funding. The project has already had indicative approval for inclusion in the 6 year investment programme;
- (5) The re-profiled sea banks will have a shallow sloped rear leading to a soak dyke to be able to cope with any future overtopping. This will also enable some habitat creation;

This work will take place over three financial years from 2015/16 to 2017/18

Commencement Date: Autumn 2015

Completion Date: 2017-18

Cost: £600,000

Benefits: protecting 463 properties at risk, several businesses and 340 hectares of agricultural land

Contact details: Peter Bateson, Chief Executive

01205 310088

[peter@w4idb.co.uk](mailto:peter@w4idb.co.uk)

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**Open Report on behalf of Phil Younge, Area Manager Lincolnshire & Northamptonshire, Environment Agency**

Report to:	<b>Flood and Drainage Management Scrutiny Committee</b>
Date:	<b>11 December 2015</b>
Subject:	<b>Louth and Horncastle Flood Alleviation Schemes</b>

**Summary:**

To outline progress on implementing flood alleviation schemes for Louth and Horncastle.

**Actions Required:**

To consider and comment on progress made towards implementing flood alleviation schemes for Louth and Horncastle.

## **1. Background**

Louth and Horncastle have suffered historic flooding from main rivers, most recently in 2007.

Louth is a “rapid response” catchment situated on the River Lud with a low standard of protection from flooding. The preferred flood risk management option is to build two flood storage reservoirs to reduce flood risk to homes and businesses in Louth.

Horncastle is situated on the confluence of the rivers Bain and Waring. Flooding occurs due to high flows in both watercourses. The town has a significant number of properties with a low standard of protection. Flood events have been recorded in 1920, 1960, 1981, 1993 and 2007. The preferred option is to build a flood storage reservoir on the River Bain and individual property protection for those at risk from the River Waring.

In March 2009 it was concluded that external contributions would be necessary to make any scheme viable. A partnership approach to funding was therefore adopted by; The Environment Agency, Lincolnshire County Council, East Lindsey District Council, Lindsey Marsh Drainage Board and the Witham Third Drainage Board to deliver flood storage schemes at both locations. Both Town Councils have agreed in principle to fund future maintenance of the completed schemes.

## Key Information

	<b>Louth</b>	<b>Horncastle</b>
Current probability of Main River flooding in any year	5% (1in20)	10%(1in10) Bain 20%(1in5) Waring
Probability following construction works*	0.67% (1in150)	1% (1in100)
Number of properties benefiting from scheme	355	288
Estimated construction completion	May 2016	July 2016
Capital Cost including contingency (today's prices)**	£6.5 million	£8.2 million

\* the figure quoted for annual probability of river flooding post-construction works is based on current river flows. For Louth, the probability is expected to increase to 1.25% (1in80) over the 100 year life of the scheme based on the latest climate change guidance. We have not yet undertaken the climate change calculations for Horncastle but similar changes should be expected.

\*\* includes additional £430,000 acceleration funding, secured for potential Property Level Flood Protection (PLFP) works.

## Louth

Work started on site in July and is progressing according to programme. The control structures at both sites are nearing completion. Culverts have been installed on the south site. Work to the earth embankment on the north site is 33% complete. There have been site visits with the town Council, and secondary school.



Aerial view the North Site



Control Structure on the South Site

## Horncastle

Work began on site in July 2015. There have been significant archaeological finds on the site. The lattice timber work has provided an insight into how the river was managed. Samples have been sent for carbon dating. Due to the type of material at the site, construction of the main earthworks has stopped for the winter period. Work is continuing on the control structure. There have been sites visits with the Town and Parish Councils. The scheme is expected to finish in July 2016.

Agreements with the landowners are nearing completion and some advance payments have been made.



Concrete pour to base of control structure

Fixing steelwork to central dividing wall

## 2. Conclusion

Construction work has commenced at both Louth and Horncastle. The archaeological investigation at Horncastle and the susceptibility of the available material to wet weather has caused a delay 2-3 month delay to the programme. The clay material at Louth is enabling the two schemes to progress according to programme, although there remains a risk of delay due to inclement weather.

## 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 by Deborah Campbell, who can be contacted on (01522) 784387 or [deborah.campbell@environment-agency.gov.uk](mailto:deborah.campbell@environment-agency.gov.uk)

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**Open Report on behalf of Environment Agency**

Report to:	<b>Flood and Drainage Management Scrutiny Committee</b>
Date:	<b>11 December 2015</b>
Subject:	<b>Boston Barrier Update</b>

**Summary:**

The £92.3million Boston Barrier project remains on track to be completed by December 2019.

The Environment Agency is currently producing all the relevant documents needed to support the Transport and Works Act Order application to the Government in Spring 2016. The Environmental Statement for the scheme, which will outline the environmental impacts and mitigations of constructing and operating the barrier, is expected to go to consultation with statutory consultees in January 2016.

The Environment Agency has also started the process to appoint a supplier for the design and build contract for the Boston Barrier in 2016. The detailed design work will begin once the Transport and Work Act Order has been submitted – meaning that construction can start in 2017 following a successful Transport and Works Act Order application.

**Actions Required:**

To consider and comment on the content of the report

**1. Background**

The Boston Barrier is phase 3 of The Boston Combined Strategy which aims to reduce the risk of flooding to 20,000 properties and improve navigation in Boston over the next 100 years.

**2. Conclusion**

Subject to the legal approvals being secured, the £92.3million Boston Barrier project remains on track to be completed by December 2019.

### **3. Consultation**

The scheme is currently holding a series of public exhibitions in Boston to launch new information about and consult local people about any impacts arising from the proposed construction methods. So far over 150 people have attended these events.

A new computer generated animation has been produced showing the Boston Barrier scheme in more detail than ever before – the video has over 1000 views since launching on 25 November.

### **4. Background Papers**

No background papers as defined in the Local Government Act 1972 were relied upon in the writing of this report.

This report was written by Adam Robinson who can be contacted on 07747 640663 or via email: [Boston.Barrier@environment-agency.gov.uk](mailto:Boston.Barrier@environment-agency.gov.uk)



**Open Report on behalf of the Environment Agency**

Report to:	<b>Flood and Drainage Management Scrutiny Committee</b>
Date:	<b>11 December 2015</b>
Subject:	<b>Black Sluice Catchment</b>

**Summary:**

This report sets out the current arrangements for managing flood risk in the Black Sluice Catchment; explores the organisational remits of both the Environment Agency and the Black Sluice Internal Drainage Board; provides information on a recent consultation exercise; and sets out the way forward.

**Actions Required:**

To consider and comment on the content of the report.

## **1. Background**

The Environment Agency (EA) carried out a six week formal consultation to look at how flood risk could be managed in the future between 17 August and 27 September 2015. A series of consultation events were jointly hosted by the EA and the Black Sluice Internal Drainage Board (BSIDB) in recognition of the critical roles that both organisations have in the catchment.

The EA and the BSIDB have provided a joint position statement on the future development of the Black Sluice Catchment flood risk management proposals.

### Current Arrangements for Managing Flood Risk

The Black Sluice Catchment is drained and protected from flooding by a complex system of artificially embanked main rivers, lowland drainage ditches, gravity outfalls and pumping stations. In the higher areas of the catchment rivers have often been straightened and deepened to allow water to run away more quickly. The whole system flows out to sea via the Black Sluice – comprised of two gravity sluices (one of which is also a navigation lock) and the Black Sluice Pumping Station (BSPS) which currently needs a large investment to secure its operation into the future. This facility is currently owned and operated by the EA, who also own and operate the c120km of main river embanked channels in the catchment.

The BSIDB manage the large and complex network of c755km of drainage ditches, and the 34 pumping stations and gravity outfalls from these drainage catchments

into the main rivers. They also manage some ordinary watercourses in the highland area of the catchment, on behalf of the local authorities. BSIDB are dependent on the main river system to evacuate the majority of drainage water from the catchment. BSIDB offer additional protection to the South Forty Foot Drain (SFFD) main river from overtopping and possible breaching events by implementing an emergency strategy of reduced or no pumping into the SFFD during extreme events (holding the flood water within the catchments). There are no restrictions from the eight EA controlled main river highland carriers gravitating into the SFFD.

Work undertaken over a number of years, examining the effectiveness of the Black Sluice system has shown how important the structures and channels within the lowland area of the catchment are in reducing flood risk by providing land drainage for the purpose of growing food and other crops as well as for habitation within this area. The current EA operation of the BSPS itself does not reduce the risk of flooding to homes in the area whereas a more proactive approach from the BSIDB could, i.e. pumping the system down prior to a Met Office severe wet weather warning event. It does reduce the number of hectares of land that flood from 992 to 814 if the pumps operate using a scenario of a flood with a 10% chance of happening in any given year. The EA alone cannot attract funding to refurbish the pumping station, because the economic benefit falls far short of the treasury requirements for investment. However, there is a small economic benefit that other organisations may wish to realise through local investment in the pumping station.

### Organisational Remit and Funding

Whilst both organisations have a role to play in flood risk management in the catchment, the remit, focus and funding arrangements for each are different. The EA has one main source of funding for flood risk management, known as Flood and Coastal Risk Management Grant in Aid (FCRMGIA). The application of these funds is weighted towards reducing flood risk to people and homes. The EA receive c£278k per annum additional funding from the BSIDB, known as the IDB precept, which is used to contribute to the up keep and maintenance of the SFFD main river to allow drainage water to flow out to sea.

The BSIDB is 51% funded through drainage rate payers (land owners and tenant farmers) and 49% funded collectively from Boston Borough Council, North Kesteven District Council, South Kesteven District Council and South Holland District Council, who pay to ensure the ongoing land drainage of the catchment. BSIDB are also able to claim FCRMGIA for work that reduces flood risk, and they are able to make bids to other funding sources, for example Local Enterprise Partnership funding. As a government body, the EA cannot apply for these other funds.

There are a number of options for sustaining and improving the flood risk management in the catchment, proposed by the consultation document. The consultation responses have shown a strong appetite for the BSPS to continue as a facility for the catchment. There are still ways in which this can move forward as an option; however the EA is unlikely to be able to continue to be the operator, due to the funding constraints described above. The consultation also revealed new

options and partners that may be able to contribute to future flood risk management. There are significant benefits available within the catchment, which would justify EA and BSIDB expenditure of FCRMGIA on sustaining and improving the current infrastructure (not including the BSPS). The consultation responses strongly supported further investment in both lower and upper catchments to improve flood risk management.

## **2. Conclusion**

### The Way Forward

Work on this project has produced the following key points:

- The Black Sluice Catchment currently benefits from a historical legacy of drainage works and infrastructure that reduce flood risk in the catchment.
- Current owners and operators of some of these watercourses and infrastructure are either not set up, or funded, to allow them to continue to operate these into the future. Others may be able to manage them to better effect.
- The EA is not able to deliver all the aspirations that partners and the community have for flood risk management and linked growth ideas, such as water resource security and navigational development, alone.
- There are many other projects that both BSIDB and the EA need to link with as the Black Sluice Catchment Works project is progressed. (for example the Fens Waterway Link and Anglian Water Services water transfer scheme).

The EA and the BSIDB have agreed to seek to move forward jointly in the following way:

### Creation of the South Forty Foot Catchment Steering Group

Robert Caudwell has been appointed as an independent chairman to ensure a continued dialogue between all risk management authorities (RMAs) and other organisations and individuals who have offered to assist in shaping the future flood risk management and sustainable development of the Black Sluice Catchment. This will allow the EA to act as an equal partner, instead of a lead, which better reflects the EA's funding position. The chairman will set up a strategic catchment partnership steering group. This group will include representation from the Black Sluice IDB, the Environment Agency, Lincolnshire County Council and the Greater Lincolnshire Local Enterprise Partnership. The Steering Group will focus on four areas for development:

- Catchment wide asset management for land drainage and flood risk management
- Water Resource
- Water Level Management for Navigation
- Water Framework Directive

Organisations will be able to bid for funding from sources other than FCRMGIA and coordinate development and risk management activities within the catchment.

## **1) Catchment wide asset management for land drainage and flood risk management**

### **A transitional arrangement for BSPS**

The EA and BSIDB will investigate how they can fund and facilitate a smooth transition of the BSPS to BSIDB. Provisionally, a two year transitional arrangement is proposed, where the EA continue to operate the BSPS, but with increasing involvement of the BSIDB, until their familiarity and competence in running the station is at a point where full hand over can be achieved. This time will allow other funding sources to be investigated and legal processes to be progressed, but is dependent on the necessary funding being in place.

### **Interim capital works undertaken by EA and BSIDB**

Both RMAs will continue to progress capital works that sustain and improve the flood risk management of the existing system - where these comply with treasury funding rules and meet the strategic approach that is being formulated by the catchment partnership. For example BSIDB land drainage pump station refurbishments, culvert replacements, protecting the low points along raised main river embankments, one off capital dredging works and the Swaton Flood Alleviation Scheme.

### **A joint operation and maintenance plan**

A detailed plan for operating and maintaining the flood risk infrastructure in the catchment will be jointly written by all RMAs involved in managing flood risk. It will outline each partner's roles and responsibilities and identify funding sources and arrangements, to ensure that the work is affordable and fully funded. Use would be made of the Public Sector Cooperation Agreement to allow the RMAs to undertake work on each other's behalf where they are better equipped or have resources to do so. This will allow the future transfer of watercourses between organisations to take place more smoothly if desired. The EA has a statutory duty to provide flood warnings to the public. The operational plan will describe how the EA and IDB will work together to put in place suitable communications that will allow the EA to continue with this responsibility.

## **2) Water Resource**

Opportunities will be sought to optimise the use of water within the catchment to generate economic growth.

**3) Water Level Management for Navigation**

Existing and new aspirations will be considered when developing works arising from the above to ensure Water Level Management for Navigation is incorporated or as a minimum, not precluded for the future.

**4) Water Framework Directive**

Opportunities will be sought across all works arising from the above to collectively deliver in accordance with the Water Framework Directive and enhance the environment where possible.

Detail to be agreed by Steering group for 2, 3 and 4.

**3. Consultation**

**Results from the formal consultation**

The formal consultation was promoted widely through traditional and social media as well as directly to locally elected members at county, borough, district, town and parish level, along with local MPs. Six events took place, providing opportunities for people to come and talk to both organisations – three at village halls in Rippingale, Bicker and Billingborough, and three at the BSIDB offices at Swineshead. In addition we attended a bespoke meeting for the Bourne branch of the NFU and the EA attended the Lincolnshire County Council Flood and Drainage Management Scrutiny Committee in September. More than 150 people attended these events.

An analysis of the 71 responses received reveals that:

- Most people support transferring the Black Sluice Pumping Station (BSPS) to the BSIDB followed by replacing two pumps to keep the current pumping capacity. The options least supported are do nothing and do minimum i.e. removing the pumps.
- For the Lower Catchment, most people support protecting low points along the raised river embankments from erosion, followed by making flood products available to homes most at risk. The options least supported are do nothing and do minimum i.e. continue with current maintenance. In addition to the options consulted upon responders also favoured increased maintenance of the South Forty Foot Drain (SFFD) channel and for this work to be carried out by the BSIDB.
- For the Upper Catchment, most people support increased channel maintenance downstream of villages, followed closely by 'slowing the flow' upstream to hold water back, and make flood products available to homes most at risk. The options least supported are do nothing and do minimum i.e. continue with current maintenance.
- Eighteen responses indicated a willingness on the part of both individuals and organisations, to help deliver some of the proposed options.

It must be noted that a 'do nothing' and 'do minimum' option are required when putting together a business case for funding. It has to be shown and quantified that it is worth doing something, rather than nothing, and also what the implications are if what happens currently just continues.

A full 'response to the consultation document' will be published by the 27 January 2016.

#### **4. Background Papers**

No background papers as defined in the Local Government Act 1972 were relied upon in the writing of this report.

This report was written by Deborah Campbell, who can be contacted on email [Deborah.campbell@environment-agency.gov.uk](mailto:Deborah.campbell@environment-agency.gov.uk) and by Ian Warsap who can be contacted on email [ian.warsap@blacksluiceidb.gov.uk](mailto:ian.warsap@blacksluiceidb.gov.uk)

**Open Report on behalf of Richard Wills, Executive Director for Environment & Economy**

Report to:	<b>Flood and Drainage Management Scrutiny Committee</b>
Date:	<b>11 December 2015</b>
Subject:	<b>Common Works Programme &amp; Lincolnshire County Council Capital Schemes 2015-16</b>

**Summary:**

The report provides the Committee with the latest position on the Common Works Programme for 2015-16, including the current programme for surface water management schemes.

**Actions Required:**

To consider actions in progress to deliver the current programme of works to manage local flood risk.

## **1. Background**

The Joint Lincolnshire Flood Risk and Drainage Management Strategy is delivered through a Common Works Programme, which encompasses the full range of work undertaken by flood risk management authorities across Lincolnshire. The Common Works Programme is fully updated annually, but is also sufficiently flexible to accommodate changes as opportunities and circumstances change throughout the year.

In line with the Lincolnshire Flood Risk and Drainage Management Partnership's policy of maintaining the greatest possible public openness, the Common Works Programme for 2015-16 is published on Lincolnshire County Council's website. It distinguishes between 'core' activities, which are those that Risk Management Authorities undertake in the normal course of their duties, and 'joint' activities which are those where two or more authorities have come together to deliver a solution.

A 'core' activity, for example, might be the regular maintenance and repairs carried out on watercourses by the Environment Agency or Internal Drainage Boards. In contrast, joint activities would include schemes such as the fluvial flood relief schemes at Louth and Horncastle. While management of main rivers is an operational responsibility for the Environment Agency, the need for funding from partners to ensure the work takes place makes it part of the joint programme.

This principle means that partners are not precluded from assisting each other in delivering 'core' works should the need for co-operation arise, and should the priority of the activity require such additional support.

For this reason, while the County Council's responsibility for surface water flood risk (among other matters), falls within the 'core' section of the Common Works Programme, the Council has developed a programme of such works in consultation with its partners and with an eye to opportunities for joint working. Government funding is obtained through the Environment Agency Flood Defence Grant in Aid (FDGiA) process, with schemes being assessed on a cost benefit basis with the County Council making contributions and delivering the schemes.

A business case was submitted in December 2012 identifying a spend profile over the three years 2013/14 to 2015/16 requiring contributions from the County Council totalling £1.7M. An overall capital allocation of £1.3M was approved for the 2014/15 and 2015/16 financial years, with the revenue allocation being used in support. A similar business case was submitted in June this year for a further capital allocation for the 2016/17 financial year, with £630,000 being approved as a contribution to an indicative programme value of just over £2 million.

The Environment Agency's FDGiA process is a complex process requiring Project Appraisal Board approval before final scheme allocations are approved. The annual spend profile also has to be aligned with the Environment Agency's Medium Term Plan (MTP), which is approved in January each year by the Regional Flood and Coastal Committee (RFCC). Consequently the programme of Lead Local Flood Authority works has to be adapted. It should also be noted that some schemes intentionally span financial years.

### **Conclusion**

The attached Appendix A identifies the latest projected spend profile for this financial year and the programme of surface water schemes that are planned. It is important to note, however, that details of the programme (including financial forecasts) may change should there be changes to the MTP as a result of further investigation work and the FDGiA approval process.

### **3. Consultation**

There are no policy proofing actions required.

**4. Appendices** - These are listed below and attached at the back of the report

Appendix A: Lincolnshire County Council Latest Programme of Local Flood Risk Management Works for 2015-16
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**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 Mark Welsh & David Hickman, who can be contacted on  
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or [David.Hickman@lincolnshire.gov.uk](mailto:David.Hickman@lincolnshire.gov.uk)

## Lincolnshire County Council - Latest Programme of Local Flood Risk Management Works for 2015-16

Scheme title	Investigation & feasibility	Work carried out on site	Current est number of properties at risk of internal flooding	Est overall scheme cost	Est overall LCC total contribution	Est overall scheme spend in 2015/16	Est FDGiA & other contribution in 2015/16	Est LCC contribution in 2015/16
				£	£	£	£	£
Boston, Marsh Lane	✓	✓	TBC	8,000	4,000	6,000	4,000	2,000
Cherry Willingham, Sycamore Rd	✓		6	95,000	57,000	3,000	3,000	0
Crowland	✓	✓	TBC	68,000	34,000	4,000	1,000	3,000
Digby	✓		20	173,000	50,000	23,000	13,000	10,000
Folkingham	☐	✓		124,700	62,350	3,000	0	3,000
Heighington, Fen Lane	☐	✓	5	84,000	64,000	58,500	0	58,500
Holbeach	✓		40	230,000	138,000	15,000	0	15,000
Horncastle	✓		26	300,000	100,000	10,000	0	10,000
Keelby	✓		TBC	30,000	30,000	20,000	0	20,000
Kirkby on Bain	✓		13	175,000	77,000	35,000	0	35,000
Lincoln, Bunkers Hill	✓		3	98,000	43,000	10,000	0	10,000
Lincoln, Stamp End	✓		82	830,000	265,000	630,000	509,000	121,000
Middle Rasen	✓		15	235,000	168,000	25,000	5,000	20,000
Morton nr. Bourne, Station Rd	✓		16	430,000	237,000	10,000	0	10,000
Nettleham	✓		2	22,000	7,000	5,000	0	5,000
Newton nr. Haceby	✓		7	150,000	105,000	25,000	0	25,000
Ruskington	✓		12	100,000	50,000	35,000	25,000	10,000
Scopwick, Scothern Road	✓		2	20,000	10,000	15,000	10,000	5,000
Spalding	✓		19	225,000	70,000	50,000	0	50,000
Sturton by Stow, Fleets Road	✓		6	77,000	77,000	20,000	0	20,000
Timberland	✓		TBC	15,000	15,000	15,000	0	15,000
Toynnton St Peter	✓		TBC	15,000	15,000	15,000	0	15,000
Ripingale	✓	✓	TBC	65,000	65,000	65,000	0	65,000
Walcott, High Street & The Drift	✓	✓	10	260,000	209,000	11,500	0	11,500
Washingborough, Keeble Drive		✓	40	740,000	555,200	109,000	104,000	5,000
<b>25 SCHEMES TOTAL</b>			<b>324</b>	<b>4,569,700</b>	<b>2,507,550</b>	<b>1,218,000</b>	<b>674,000</b>	<b>544,000</b>



**Open Report on behalf of Richard Wills, Executive Director for Environment and Economy**

Report to:	<b>Flood and Drainage Management Scrutiny Committee</b>
Date:	<b>11 December 2015</b>
Subject:	<b>Investigations undertaken under Section 19 of the Flood and Water Management Act 2010.</b>

**Summary:**

This is a standing item to inform the Committee on the position of all current investigations in the County under Section 19 of the Flood and Water Management Act 2010.

**Actions Required:**

Members are asked to view the current Section 19 spreadsheet at <http://www.lincolnshire.gov.uk/residents/environment-and-planning/flood-risk-management/flood-investigations/117780.article> (also included at Appendix A) and inform Committee Services in advance if they wish to raise any particular site(s) at the forthcoming Committee.

**1. Background**

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

**2. Conclusion**

Members of the Committee are requested to give notice in advance if they wish to raise any specific issues on Appendix A.

**3. Consultation**

This is not a consultation item.

**4. Appendices**

These are listed below and attached at the back of the report

Appendix A	Spreadsheet summarising investigations in the County under
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## **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 Mark Welsh, who can be contacted on 01522 782070 or [mark.welsh@lincolnshire.gov.uk](mailto:mark.welsh@lincolnshire.gov.uk).

Lincolnshire County Council Section 19 Investigations - Network North Area E - Contact Officer <u>Jeanne Gibson - Area Highways Manager</u>						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
30/04/2012	<b>Lincoln</b> St Catherine's Grove	Surface water backed up and surcharged into St Catherine's grove due to flap valve sticking open. <b>2 Properties</b>	LCC- <b>Yes</b> Anglian Water - <b>Yes</b> Environment Agency - <b>Yes</b>	Anglian Water is to inspect the flap valve at the outfall to the River Witham, and introduce a maintenance regime to ensure it closes when the river levels are high.	No	AW to maintain flap valve inspection regime to be discussed with AW & LCC. Inspections being carried out on a monthly basis.	AW	Complete	Complete Spring 2014	S19-030
06/07/2012	<b>Lincoln</b> Beevor Street	Internal flooding to an industrial property caused by blockage to private sewer. <b>1 Property</b>	None	Advised company to investigate the blockage and connection of their private sewer. This has now been carried out and has been cleared through to its connection with the Anglian Water system in Beevor Street.	No	No further action at this time	Riparian owner	Complete	Complete Spring 2013	S19-036
10/08/2014	<b>Lincoln</b> High Street	Flooding to the premises was due to heavy & persistent rain falling that day. Ponding surface water collected on the footway outside the premises in a hole in the footway. Due to the gully in the carriageway being full of building debris, water was unable to exit into the sewer, thus the ponding water entered the shop causing internal flooding to the sales floor. <b>1 Property</b>	LCC - <b>Yes</b>	Surface water did not discharge into the sewer system due to the gully outside the premises being blocked with building material. The gully was jettted and cleaned out immediately after the flooding incident. Once the system had been cleaned it was found to be free running.	No	System has been cleansed and jettted and will be inspected by LCC Highways on a regular basis. The gullies and sewer system is cleansed routinely on the LCC cyclic maintenance schedule.	LCC	Complete	Complete Autumn 2014	S19-083

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Lincolnshire County Council Section 19 Investigations - Network North Area F - Contact Officer Steve Wiles - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Caistor</b> Castle Hill	Following heavy rainfall the Anglian Water foul sewer system became overwhelmed due to infiltration of surface water and backed up into a property in Castle Hill.  <b>1 Property</b>	Anglian Water - <b>Yes</b>	There is a non-return valve fitted to the property lateral which was ineffective. Anglian Water have repaired it and are to implement an improved maintenance regime.	No	AW to maintain the non-return valve.	AW	Complete	Complete Autumn 2012	S19-031
28/06/2012	<b>Keelby</b> Eastfield Road	Surface water sewer overwhelmed due to its connection to a blocked riparian drain.  <b>3 Properties</b>	Anglian Water - <b>Yes</b> North East Lincs IDB - <b>Yes</b> LCC - <b>Yes</b>	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.	No	All risk management partners have completed their actions and responsibilities.	AW NELIDB LCC	Complete	Complete Spring 2014	S19-033
28/06/2012	<b>Moortown</b> Brigg Road	Extreme rainfall (in the order of a 1 in 200 year event) caused the riparian ditches in front of properties on Brigg Road to overtop causing internal flooding.  <b>1 Property</b>	Ancholme IDB - <b>Yes</b>	Riparian owners have been advised to clear the ditches in front of their properties. Ancholme Internal Drainage Board is to advise residents and promote investigation into the outfall of riparian watercourses into Nettleton Beck. Ancholme Internal Drainage Board requested to assess for enforcement action.	No	Riparian owner and Ancholme IDB have completed their actions and recommendations. Residents have been informed of their responsibilities.	Ancholme IDB	Complete	Complete Spring 2014	S19-034
28/06/2012	<b>Spridlington</b> Faldingworth Road	Extreme rainfall (in the order of a 1 in 200 year event) caused surcharging of the highway drainage system in the village and internal flooding.  <b>1 Property</b>	LCC - <b>Yes</b>	Highway drainage system found to be in good order following the investigation. As the flooded property has a very low threshold, property level resilience recommended.	No	IDB requested to assess for enforcement action and recommendations advised to residents	LCC	Complete	Complete Autumn 2013	S19-035
25/05/2014	<b>Kexby</b> High Street	History of surface water flooding and drainage issues in location. Most recent event involved an intense period of persistent rain causing surface water drains to back up and flow into the garden and driveway, and then into the property whilst the resident was not at home.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC has arranged for the surface water drainage system to be jetted and cleansed. However, there is evidence that there is a broken pipe within the system. It is proposed to install a new section of surface water drain to create a connection to another system which is known to be in good order, providing an alternative outfall and rendering the damaged pipe redundant. WLDC have been advised to sweep the roads to prevent excess silt and debris blocking the drain.	No	System has been cleansed and jetted, WLDC have swept the roads. Damaged surface water drain is currently being replaced by LCC Works to lay a new 225mm diameter surface water pipe between two existing chambers on the High Street.	LCC	Complete	Complete September 2015	S19-076

Lincolnshire County Council Section 19 Investigations - Network North Area F - Contact Officer Steve Wiles - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
09/06/2014	Scotter High Street	Heavy rainfall, in a short duration caused excess surface water to flow down the High Street and into the carpark. The water entered through the rear door where it damaged Lounge carpets and refrigeration units in the bar. This occurred on two occasions. Sandbags were issued when the property was threatened on a third occasion. However it did not breach the threshold. Notified in Dec 14  <b>1 Property</b>	LCC - Yes	A survey will be carried out to investigate whether any alterations can be made to the access to stop any run off from the carriageway.	No	Work order issued to lay centre kerb across vehicle access to create a water check to keep surface water running down High Street and not into the public House carpark. Works completed September 2015	LCC	Complete	Complete September 2015	S19-128
09/06/2014	Somerby Corringham Road	Following torrential rainfall, the highway ditches became overwhelmed causing the outfall pipe to the property's septic tank to back up the drains in the property, subsequently leading to water entering the property.  <b>1 Property</b>	LCC - Yes	Flooding was caused by lack of maintenance of the open ditch. The riparian owner has been contacted to ensure the ditches are regularly cleared out and maintained to remove the risk of the outfall backing up in the future.	No	Recommendations provided to riparian owner	Riparian Owner	Complete	Complete Winter 2014	S19-082
09/06/2014	Blyton High Street	Following very heavy rainfall, the dyke to the rear of the property which collects water from the adjacent land and development at the top of the hill, was unable to take the water. The volume of water exceeded the capacity of the pipe at the bottom of the dyke. This caused the dyke to back up and run through the fence at the rear of the property. The flood water entered the restaurant and flowed through the building to the main entrance at the front.  <b>1 Property</b>	LCC - Yes	Flooding was caused by insufficient pipe capacity within the dyke located to the rear of the property. Recommendations given to the property owner and riparian owner of the dyke include:  Constructing a wall or physical feature along the fence line to reduce the risk of water from the dyke flowing down the slope into the property;  Installation of flood seals to the doors to prevent water ingress;  Regular maintenance to the trash screen to ensure it is kept clear of debris and reduce the risk of the 225mm pipe in the dyke from backing up.	No	The riparian/property owner has been informed of his responsibilities, and of flood resilience measures to help alleviate the property from flooding in the future.	Riparian Owner	Complete	Complete Autumn 2014	S19-089
09/06/2014	Blyton Station Road	Following torrential rainfall, the highway drains were unable to cope with the amount of surface water on the carriageway causing internal flooding to the property.  <b>1 Property</b>	LCC - Yes	During a period of intense rainfall over a short period, surface water run off from neighbouring land caused this residential property internal flooding. Whilst carrying out investigations there was no evidence of any dykes along the field boundaries, additionally the property is situated lower than the surrounding land and carriageway.	No	The property owner has been made aware of property resilience measures that should help alleviate flooding in the future.	Riparian Owner	Complete	Complete Sept 2014	S19-090



Lincolnshire County Council Section 19 Investigations - Network North Area F - Contact Officer Steve Wiles - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
09/06/2014 Page 41	<b>Hemswell Cliff</b> Capper Avenue	Following torrential rainfall that fell in a short duration, surface water flowed off the unadopted road and onto the property causing internal flooding to the bungalow.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	That investigations be made by the management company into the surface water drainage system to check the system is operating at full capacity, and to identify any reasonable improvements to mitigate residual flood risk.  That investigations be made by Anglian Water into the condition of the foul system.  That the property owner be reminded of the advice given in 2012 by WLDC with regards to flood risk management and property protection.	No	The Private Management company responsible for the maintenance of the water drainage system and that the property owner has been reminded of the advice given by WLDC in 2012 with regards to flood risk management and property protection.	Riparian owner	Complete	Summer 2015	S19-127
11/08/2014	<b>Corringham</b> Middle Street	Intense summer rainfall caused property internal flooding. The cause of the flooding was due to a blocked highway drain located at the front of the property.  <b>1 Property</b>	LCC - <b>Yes</b>	It is recommended that the surface water highway drain is regularly maintained. The tenant is currently in the process of requesting permission from the landlord to make improvements to the driveway, to help alleviate flooding in the future.	No	System has been cleaned and jetted following the incident. All flood resilience work will be carried out by the landlord.	LCC Riparian Owner	Complete	Complete Autumn 2014	S19-091

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Lincolnshire County Council Section 19 Investigations - Network North Area G - Contact Officer Alan Brown - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
10/07/2012 Page 43	<b>Bardney</b> Laing Close	Surcharging from foul and surface water sewers due to blockages within the surface water system. Concerns over operation of foul sewer system due to possible downstream pump failure, excessive surface water connectivity to the foul sewer and the effectiveness of the overflow arrangements at the pumping station.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water- <b>Yes</b> Witham 3rd IDB - <b>Yes</b>	LCC system checked and functioning effectively. Anglian Water has provided resilience measures at a property on Laing Road. Anglian Water to check and repair their systems and investigate the flow carried by the foul system and validate the capacity of the foul sewer, including the operational effectiveness of the foul pumping station and its emergency overflow arrangements. The installation of a flap valve to the surface water sewer outfall at the rear of Baltholomew Close should be investigated. Witham 3rd Internal Drainage Board to complete its study into the benefits of upgrading its culvert through the garden of a property on Abbey Road.	Yes- possible upgrading of Witham 3rd culvert.	LCC system checked and ok, problems found with AW surface water system and reported to AW, mitigating action taken by erecting flood boards at the property. AW has confirmed all remedial work has been carried out, and a regular maintenance regime is now in place. Witham 3rd IDB have installed a new culvert under Abbey Road to increase capacity of the drainage system. This work was carried out in November 2014.	LCC AW Witham 3rd IDB	Complete	Complete Winter 2014	S19-037
23/12/2012	<b>Heighington</b> High Street	Surface water and ground water flooding (from private well) entered the lowest room in the property (the former dairy) following prolonged wet weather.	LCC - <b>Yes</b>	The provision of a new overflow for the well will allow for a significant discharge from the area. However, it is difficult to confirm whether the arrangements installed will limit the rise in groundwater levels should similar weather conditions reoccur. The effectiveness of the completed installation should be monitored by on-going liaison between LLFA and the owners.	No	The property owners have subsequently obtained consent to lay a new overflow pipe from the well to the beck and have privately funded its construction with all the site works complete.	Riparian Owner	Complete	Complete Spring 2014	S19-038

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Lincolnshire County Council Section 19 Investigations - Network North Area H - Contact Officer Dean Myhill - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Chapel St Leonards</b> Fairfield Avenue	Surcharging of Anglian Water surface water system due to displaced pipe work, and possible concerns over capacity.  <b>1 Property</b>	Anglian Water - <b>Yes</b>	AW to complete repair works to the displaced pipework.  It is recommended that AW carry out further work to ascertain the existing capacities of the system and if any further mitigation measure is required.	No	All recommended works completed Nov 2013	LCC	Complete	Complete Winter 2013	S19-013
28/06/2012	<b>Saltfleet</b> Main Road	Soil and vegetable matter washing into the channel in front of the property causing blockage to the adjacent gully.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC to carry out work to trim and harden the verge to prevent future siltation and blockages of the channel and gully.	No	Works completed Nov 2013	LCC	Complete	Complete Winter 2013	S19-014
29/06/2012	<b>Saltfleet</b> Pump Lane	Overland and highway surface water flows entering low lying property due to collapsed and silted surface water drainage system.  <b>1 Property</b>	East Lindsey District Council - <b>Yes</b>	ELDC has investigated the surface water system and installed a new manhole enabling access, and will cleanse and repair the current system. This will include installing new gullies.	No	All work completed Nov 2013	ELDC	Complete	Complete Winter 2013	S19-015
28/06/2012	<b>Goulceby</b> Shop Lane	Overland flows from the adjacent hillside and agricultural land has been exacerbated by the overgrown/silted interceptor ditch, and the inlet to the culvert system being restricted by debris and silt. The combined flows caused flooding to a property opposite which is lower than the restricted culvert/ditch system.  <b>1 Property</b>	LCC - <b>Yes</b>	During and following the incident, the ditch underwent some clearance work by the resident of the flooded property. Witham 3rd IDB to ensure regular effective maintenance to the riparian ditch to the north of Shop Lane.	No	All works completed Nov 2013	Witham 3rd IDB LCC	Complete	Complete Winter 2013	S19-020
06/07/2012	<b>Huttoft</b> Mumby Road	Overland and highway surface water flows entering low lying property due to suspected lack of capacity in the surrounding highway drainage system.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC have investigated the drainage system and will raise kerbs and install new gullies. LCC is awaiting funding availability prior to carrying out the works.	No	LCC to install new gullies and raised kerbs	LCC	Complete	Complete Sept 2013	S19-023
03/08/2012	<b>Mumby</b> Coots Lane	Following intense rainfall, water flowed down Coots Lane entering a property which is situated at the lowest point. A combination of water from the carriageway and driveway was believed to be the cause.  <b>1 Property</b>	LCC - <b>Yes</b> Lindsey Marsh IDB - <b>Yes</b>	Drainage survey to be undertaken with a view to upgrading the existing highway surface water drainage system. LMIDB to contact riparian land owner of the dyke to request it to be cleaned/maintained on a regular basis.	No	LCC to undertake drainage survey. LMIDB to request cleansing/maintenance of dyke.	LCC LMIDB	Complete	Summer 2014	S19-028

Lincolnshire County Council Section 19 Investigations - Network North Area H - Contact Officer Dean Myhill - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
09/06/2014	Louth Mayfield Crescent	Following torrential rain, the highway drains were unable to cope with the amount of surface water on the carriageway. Surface water was reported to have entered two low lying properties. After further investigation and confirmation from the local residents, flooding only affected the garages of the two properties.  <b>2 Properties</b>	LCC - <b>Yes</b>	LCC Highways may carry out maintenance work in the future although it is not classed as a priority as living accommodation was not flooded on this occasion. LCC have informed the residents that resilience measures to their property would be beneficial.	No	Residents advised to undertake resilience measures to protect their properties. LCC Highways to look at highway improvements in the future if required.	LCC	Complete	Complete Autumn 2014	S19-097

Lincolnshire County Council Section 19 Investigations - Network North Area J - Contact Officer - Andrew Ratcliffe - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Roughton Moor</b> Horncastle Road adjacent to the old railway line	Metalling works to the Spa Trail has affected the natural overland flow routes. This has caused surface water to be trapped on the south side of the trail, which has caused flooding to one property. <b>1 Property</b>	LCC - <b>Yes</b>	Temporary relief trench has been cut and boarded. LCC designing a solution as Spa Trail upgrade has affected the natural overland flow path.	No	LCC has carried out remedial works to reduce flood risk to properties by the installation of a cross drain.	LCC	Complete	Complete Autumn 2012	S19-008
28/06/2012	<b>Skegness</b> Sunningdale Close	Extreme rainfall caused highway surface water flows to bypass kerb gullies and collect in the low area of Sunningdale Close. Overland flows from the rear of the houses also contributed to the flooding. <b>4 Properties</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b> East Lindsey District Council - <b>Yes</b>	East Lindsey District Council has installed new gullies and connections which discharge into the Anglian Water surface water system (the capacity of which has been checked and found to be acceptable).	No	Capacity issues checked and found to be acceptable; ELDC installed new gullies.	ELDC	Complete	Complete Autumn 2013	S19-009
28/06/2012	<b>Woodhall Spa</b> Albany Road	Heavy rainfall caused surcharging of the highway drainage system (which flows into Tattershall Road) causing backflow into Albany Road. This, together with the flows collected from Albany Road, were unable to enter the watercourse crossing Albany Road and the watercourse to the rear of Witham Road. This is due to a combination of blocked watercourses and partially blocked culvert crossing Albany Road. <b>5 Properties</b>	Witham 3rd IDB - <b>Yes</b> LCC - <b>Yes</b>	Witham 3rd Internal Drainage Board has instructed a developer to clear the ditches to the rear of Witham Road, and leading to the culvert crossing Albany Road. LCC has cleared the culvert from its outfall to Albany Road and are investigating the short section of culvert under Albany Road with a view to upsizing (feasibility and design in progress). In addition, LCC plan to install a new section of pipe work and gullies outside the affected properties to drain to the culvert. Residents have also cleared the ditch to the south of Albany Road.	No	Culvert designed by LCC. Works due to start on site 23rd June 2014 to install a new culvert	LCC	Complete	Complete Summer 2014	S19-011
28/06/2012	<b>Firsby</b> Station Road	Following intense rainfall, water from the B1195 Station Road passed over a covered highway gully down the drive of, and flooded, a residential property. <b>1 Property</b>	LCC - <b>Yes</b>	LCC has uncovered the gully, and the resident advised to consider providing drainage to the front of their property, to increase protection. LCC to consider raising kerbs.	No	Defective gully uncovered and all work carried out.	LCC	Complete	Complete	S19-019
28/06/2012	<b>Hundleby</b> Brick Yard Lane	Overland flows from agricultural land surcharged culvert under Brick Yard Lane (reported 9th May 2013 by IDB) which is a private road <b>1 Property</b>	LCC - <b>Yes</b>	It's recommended that the 300mm dia culvert under Brickyard Lane be checked for condition and cleared by the private owner. Consideration may be given to installing a larger culvert - this would require consent from Witham 4 IDB. All unmaintained ditches should be cleared out.	No	Recomedations provided to Riparian owner	LCC	Complete	Complete	S19-021
06/07/2012	<b>Croft</b> Croft Bank	Overland and highway surface water flows entering property access due to low kerb threshold. <b>1 Property</b>	LCC - <b>Yes</b>	LCC to investigate and undertake reshaping works to divert flows away from the property access.	No	LCC have investigated and undertaken reshaping works to divert flows away from property access.	LCC	Complete	Complete Winter 2013	S19-022

Lincolnshire County Council Section 19 Investigations - Network North Area J - Contact Officer - Andrew Ratcliffe - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
19/07/2012	<b>Skegness</b> Lumley Avenue	Extreme rainfall caused both highway surface water and overland flows to funnel down the unadopted lane and collect in the low area behind the properties of Lumley Avenue.  <b>2 Properties</b>	LCC - Yes	LCC have installed two new gullies to cut off the discharge from the highway onto the private road. Owners of the private road advised to consider a drainage system within the unadopted lane.	No	New gullies installed by LCC. Recommendations provided to the owners of the private road .	LCC	Complete	Complete	S19-027
17/03/2013	<b>Bucknall</b> Main Street	Following intense rainfall, overland flows from adjacent fields flowed through the rear garden and entered the property.  <b>1 Property</b>	LCC - Yes Witham 3rd IDB - Yes	Historic ditch to the rear of the property appears to have been filled/removed. This has now been reinstated to a good standard. Witham 3rd IDB to check works	No	Witham 3rd IDB has checked the work has been carried out and it is maintained on a regular basis.	LCC Witham 3rd IDB	Complete	Complete Summer 2013	S19-029
10/07/2014	<b>Anderby Creek</b> Lakeside	Intense summer rainfall last night caused several properties in the area internal flooding Cause and No of properties to be confirmed.  <b>3 Properties</b>	LCC- Yes	A full investigation and designs for the instalation of a surface water drainage system have been undertaken by LMIDB. The propsed scheme seeks to install a new surface water drainage system draining into the adjacent lake. Improvements to the riparian maintained are also proposed. Upon completion the new drainage sytem is to be maintained by LMIDB. The scheme is a partnership scheme funded by LMIDB, ELDC and LCC for completion in Spring 2015.	No	All propsed works have now been completed	LMIDB ELDC LCC	Complete	Spring 2015	S19-123
08/08/2014	<b>Skegness</b> Ida Road	Intense rainfall that fell over a short period of time caused internal flooding to one property.  <b>1 Property</b>	LCC - Yes Anglian Water - Yes	The property owners have been advised into installing extra drainage to collect water before it enters the property and ensure discharge to an appropriate location. Additional advice includes increasing property level protection options	No	The property owner has been made aware of property resilience measures that should help alleviate flooding in the future.	LCC AW	Complete	Winter 2014	S19-119



Lincolnshire County Council Section 19 Investigations - Network North Area J - Contact Officer - Andrew Ratcliffe - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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

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Lincolnshire County Council Section 19 Investigations - Network South Area L - Contact Officer - Rowan Smith - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
29/06/2012	<b>Billinghay</b> Tattershall Road	Blockage on a private gully which backed up and water entered a property through an external door.  <b>1 Property</b>	LCC - <b>Yes</b>	System jetted and cleared. No evidence of cause of blockage. Now on 3 x per year cleansing and jetting highway drain to outfall.	No	No further action at this time.	LCC	Complete	Complete Summer 2013	S19-051
08/06/2012	<b>Walcot</b> High Street and The Drift	Flooding of property caused by volume of water backing up in the surface water system. Further investigations revealed at least 6 properties off The Drift which were internally flooded. This flooding was a combination of blockages in the surface water system and intensity of rainfall.  <b>7 Properties</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	Anglian Water works in progress. LCC improvement scheme ongoing. A meeting with Walcott Parish Council has been held.	Yes	AW works complete. LCC works programmed summer 2014.	LCC AW	Complete	Complete Autumn 2014	S19-055
05/07/2012	<b>Helpringham</b> South Drove Fen	Combination of private and highway surface water which drained to property.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC have installed a new gully and outfall to dyke on the opposite side of the road.	No	Works completed by LCC Highways.	LCC	Complete	Complete Winter 2013	S19-058
06/07/2012	<b>Leasingham</b> Leasingham village	Surface water and foul water flooding capacity issue on watercourse running through the village, also capacity/maintenance issue with pumped foul sewer.  <b>2 Properties</b>	Environment Agency - <b>Yes</b> Anglian Water - <b>Yes</b> LCC - <b>Yes</b> Witham 1st IDB (Enforcement for LLFA) - <b>Yes</b>	Further investigations to be carried out by LCC, and further discussions to be held with the other risk management authorities.	Yes	Drainage system investigation currently being carried out. Issues with highway system at upstream end of village which is full of silt and roots. Further investigations on the remainder of the surface water system required. Investigations programmed for Winter 2014.	LCC AW	Complete	Complete Winter 2014	S19-063
22/05/2014	<b>Leasingham</b> The Lea	Internal flooding caused by surface water from the highway unable to drain away due to a blocked sewer caused by tree intrusion.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	Carry out an investigation and ensure any blockages or damage to the sewer be repaired and removed as required.	No	Investigation carried out by Anglian Water and the installation of a drain liner was carried out.	LCC AW	Complete	Complete Autumn 2014	S19-086

Lincolnshire County Council Section 19 Investigations - Network South Area L - Contact Officer - Rowan Smith - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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

Lincolnshire County Council Section 19 Investigations - Network South Area M - Contact Officer - Mark Heaton - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
01/04/2012	<b>Brandon</b> Church Lane	Overland flow from adjacent land. Saturated ground leading to overland flow which may have been exacerbated due to the lack of maintenance of riparian watercourses. South Kesteven District Council has given advice, and a drainage proposal showing a filter drain to the side of the property to intercept overland flows and underground surface water has been produced.  <b>1 Property</b>	LCC - <b>Yes</b> South Kesteven District Council - <b>Yes</b> Upper Witham IDB - <b>Yes</b>	Property owner to maintain his filter drain. LCC Highways to improve highway drainage to remove standing surface water. Risk Management Authorities to ascertain ownership of all watercourses and advise the owners to clear/maintain them periodically.	No	LCC to install and improve the highway drainage system to reduce the risk of standing surface water. Carriageway works complete, further works in regard to ditch clearing now complete and it is on a maintenance schedule.	LCC SKDC UWIDB	Complete	Complete	S19-041
28/06/2012	<b>Grantham</b> Bridge End Road	Highway surface water run-off entering front of property and exiting from the rear due to root obstructions in Anglian Water system.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	Anglian Water has undertaken root clearance works.	No	AW work completed.	AW	Complete	Complete Autumn 2012	S19-044
28/06/2012	<b>Grantham</b> The Avenue	Highway surface water run-off entering front of property. Highway surface water system backed up due to capacity issues within Anglian Water system.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	Anglian Water improvement scheme required.	No	AW scheme completed.	AW	Complete	Complete spring 2013	S19-046
05/07/2012	<b>Barrowby</b> Caythorpe Road	Highway surface water and surface water from private property flowing into garage and residential property.  <b>1 Property</b>	LCC - <b>Yes</b>	Improvements to surface water drainage and residents self protection required.	No	LCC are designing improvements to surface water drainage and advising residents on self protection works.	LCC	Complete	Complete Summer 2014	S19-057
06/07/2012	<b>Allington</b> Boundary Button Hole Cottages	Overtopping of riparian ditches upstream of recently piped section of surface water run-off from fields and highway.  <b>2 Properties</b>	LCC - <b>Yes</b> Upper Witham IDB - <b>Yes</b>	The Upper Witham IDB have undertaken enforcement and cleared the drain. LCC Highways to provide a new piped highway drainage system.	No	LCC to provide new highway drainage system. Works to be undertaken in summer 2014.	LCC	Complete	Complete Summer 2014	S19-059
06/07/2012	<b>Long Bennington</b> Main Road	Groundwater flooding through the cellar.  <b>1 Property</b>	LCC - <b>Yes</b>	Resident advised to tank cellar.	No	Advice provided.	LCC	Complete	Complete Autumn 2012	S19-061
06/07/2012	<b>Sedgebrooke</b> Allington Road	Following an intense period of rain, highway surface water and watercourses overtopped causing flooding property.  <b>2 Properties</b>	Environment Agency - <b>Yes</b> Upper Witham IDB - <b>Yes</b> LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	Environment Agency has cleared out the Beck. Upper Witham IDB have cleared the riparian ditch and are negotiating with Parish Council to maintain in future this has been agreed. LCC to install new kerbing fronting properties.	No	LCC has installed new kerbing. Anglian Water has undertaken the installation of a non return flap valve.	LCC EA Upper Witham IDB	Complete	Complete Summer 2013	S19-064

Lincolnshire County Council Section 19 Investigations - Network South Area M - Contact Officer - Mark Heaton - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
06/07/2012	Aswarby Cottage	Water breached the banks of the South Beck and flooded adjacent agricultural land, cottage and garden. Flood water surrounded the property and outbuildings.  <b>1 Property</b>	LCC - <b>Yes</b> Black Sluice IDB - <b>Yes</b> Environment Agency - <b>Yes</b>	Maintenance to South Beck which fronts the property.  Environment Agency to undertake major weed control maintenance throughout the length of South Beck to increase capacity for flow.  Environment Agency to review their existing maintenance regime of the South Beck to ensure flows can be accommodated through its length to South Forty Foot drain. Black Sluice to undertake enforcement of obstructions and maintenance on the riparian watercourses within its area.	No	Regular maintenance of Main Rivers & Riparian Watercourses being carried out.	LCC Black Sluice IDB EA	Complete	Complete Summer 2014	S19-066
23/07/2013	Stamford York Road	Blocked gullies on Sussex Road causing water to back up in York Road resulting in internal flooding.  <b>1 Property</b>	LCC - <b>Yes</b> South Kesteven District Council - <b>Yes</b>	LCC investigated a potential blockage and emptied gullies. Jetting required and installation of new gully on York Road.	No	Installation of a new double gully on York Road and connect to existing storm water system on Sussex Road completed in July 2014.	LCC AW	Complete	Complete Summer 2014	S19-067
23/07/2013	Long Bennington Main Street	The rainfall event led to surface water from the Manor Drive estate flowing out of the junction to join the flow running along Main Road, which entered the property.  <b>1 Property</b>	LCC - <b>Yes</b> Severn Trent Water - <b>Yes</b>	LCC jetted all highway surface water drainage in the area to ensure no blockages. Installation of kerbing and extra highway drainage has been completed. Investigation into the foul drain has been carried out by Severn Trent Water and two blockages/breaks in the system have been repaired.	No	All actions and recommendations carried out.	LCC STW	Complete	Complete Summer 2014	S19-071
23/07/2013	Claypole Oster Fen Lane	Due to heavy rainfall, a property suffered internal flooding. The owner reported that there was inadequate drainage along Oster Fen Lane and Main Street and the drainage system that was there, was not maintained. The road is covered in silt and the gullies were blocked with straw. The owner stated the road had previously flooded.  <b>1 Property</b>	LCC - <b>Yes</b> South Kesteven District Council - <b>Yes</b>	LCC has cleaned and jetted the highway drainage system outside the property. The system was reported to be running well. Anglian Water CCTV'd the public sewer several weeks later and it identified tree roots to the extent that the survey had to be terminated. The removal of the tree roots has been undertaken and a further CCTV investigation is due to take place. The property owner is to investigate downpipes and gully at rear of property. SKDC to undertake regular carriageway sweeping in the village to reduce the amount of detritus to build up around the gullies.	No	Following CCTV survey of the drain & sewer, the sewer has had the required maintenance carried out. District Council to ensure carriageways are swept regularly.	LCC AW	Complete	Complete Summer 2014	S19-072
06/08/2013	Stamford New Cross Roads	Standing water collected at the front of the property and caused internal flooding.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	All highway drainage found to be running clear on New Cross Roads. However, the kerb drainage opposite the property was found to be blocked and required work to be carried out. A gully located on Sussex Road was also identified as being blocked with leaf matter & debris which was later cleared. Anglian Water to maintain its utility surface water drainage system. The property owner to maintain the rainwater outfall, and alterations to be made to the rainwater drainage of the properties here so rainfall is distributed more evenly and not concentrated in one location.	No	All actions and recommendations carried out.	LCC AW	Complete	Complete Summer 2014	S19-073

Lincolnshire County Council Section 19 Investigations - Network South Area M - Contact Officer - Mark Heaton - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
20/10/2013	<b>Grantham</b> Kings School, Brook Street	Surface water flooding on carriageway caused water to enter the classroom and cellar. <b>1 Property</b>	LCC - <b>Yes</b>	LCC have cleaned and jetted out the carriageway gully. Further investigations required including a CCTV investigation.	No	LCC have cleaned and jetted out the carriageway gully. Further investigations to be carried out including a CCTV investigation and observations to ensure the drainage system is running adequately in the area.	LCC	Complete	Complete spring 2014	S19-074
Page 55 09/07/2014	<b>Barkston</b> West Street	Following heavy rain, the property incurred internal flooding. Excess surface water missed the gullies and flowed onto the property, through the front door to the kitchen at the rear of the property. <b>1 Property</b>	LCC - <b>Yes</b>	Following the investigations carried out and the communication between the resident and LCC highways, it was proposed to lift the up stand of the kerb face and install a new gully outside the property.	No	All the actions and recommendations have been completed.	LCC	Complete	Complete Autumn 2014	S19-085

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Lincolnshire County Council Section 19 Investigations - Network South Area N - Contact Officer - Kevin Brumfield - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
26/11/2012	<b>Hanthorpe</b> The Grove	Surcharge from dyke/drains. <b>1 Property</b>	LCC - <b>Yes</b> South Kesteven District Council - <b>Yes</b>	LCC investigations identified there was a culverted driveway which has a foul sewer connection crossing through it, which is causing a restriction to flow. Further restrictions included tree roots which have been removed. The culverted vehicle crossing has not been constructed as the original planning permission. This is currently under investigation by South Kesteven District Council. Remedial work carried out appears to have alleviated some of the problem. Further works planned include installation of a trash screen on the pond side to stop any large debris entering the watercourse.	No	Trash screen has been installed on the pond side of the culvert. LCC have undertaken highway drainage improvements in winter 2013 and have liaised with residents in regards to culvert improvements.	LCC SKDC	Complete	Complete Summer 2013	S19-070
22/05/2014	<b>Bourne</b> Spalding Road	Due to heavy rainfall, surface water built up on the carriageway outside the property, and flowed into the access/gateway/garden, at which point it entered the property via the side door. <b>1 Property</b>	LCC - <b>Yes</b>	LCC have cleaned and jetted the four highway gullies in close proximity to the property. Additionally, the resident was recommended to alter the direction of the downpipe close to the side door where the water entered the property.	No	All LCC action and recommendations carried out.	LCC	Complete	Complete Summer 2014	S19-081
11/07/2015	<b>Stamford</b> St Mary's Hill	The premises has previously been flooded approximately 2½ years ago, this occurred during heavy rainfall. The property incurred the most recent flooding following rainfall that fell on Saturday afternoon due to the gullies backing up. During the weekend the business was only open Saturday AM, however the proprietor did not discover the flooding until early Monday morning. The customer was informed that the gullies are emptied during cyclic programs. <b>1 property</b>	LCC - <b>Yes</b>	Surface water sewer system to be cleansed and jetted to ensure it is free flowing	No	Surface water sewer system to be cleansed and jetted to ensure it is free flowing. The recommendations have been carried out.	LCC	Complete	Complete September 2015	S19-135

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Lincolnshire County Council Section 19 Investigations - Network South Area P - Contact Officer - Andy Wharff - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
06/07/2012	<b>Gosberton</b> High Street	Heavy rainfall caused the piped and open dykes within the village to overflow which caused internal flooding. <b>1 Property</b>	Welland and Deepings IDB- <b>Yes</b> LCC - <b>Yes</b>	LCC have checked the highway drainage system in the vicinity and found it to be clear. Maintenance to the highway drainage system and riparian ditches and piped drains undertaken.	No	Maintenance to highway drainage system and riparian ditches and piped drains undertaken.	LCC WDIDB	Complete	Complete Spring 2013	S19-040
19/07/2014	<b>Swineshead</b> 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. <b>1 Property</b>	LCC - <b>Yes</b>	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.	No	New connections, chamber pots and minor highway alterations are currently in the works programme for next financial year.	LCC	Complete	Complete Summer 2015	S19-103
13/07/2014	<b>Freiston</b> Oak House Lane	Following a short period of heavy rain, surface water from the highway entered an external building where stock was stored for the business. <b>1 Property</b>	LCC - <b>Yes</b>	LCC to place an additional gully outside the property on the highway to assist with the removal of surface water. The drainage system has capacity to accommodate the additional gully.	No	Works are programmed during 2015.	LCC	Complete	Complete Summer 2015	S19-110

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Lincolnshire County Council Section 19 Investigations - Network South Area R - Contact Officer - Debra Greeves - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
24/05/2014	<b>Long Sutton</b> London Road	During heavy rainfall the resident reported water had entered his property damaging flooring. Surface water flowed off the carriageway over the footway and onto his neighbours drive, subsequently flowing onto his property. The water entered into the house via air bricks located below ground level.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC has arranged the surface water drainage system to be jetted and cleaned. The surface water system is now free flowing and deemed adequate to cope with normal rainfall, following level surveys and investigations. Recommendations to alleviate surface water flooding would involve alterations to be made to the footway, carriageway levels and the addition of further gullies in the area. However, any remedial work would have to be done in the future when resources and priorities permit.	No	System has been cleansed and jetted, and will be inspected by LCC Highways on a regular basis.	LCC	Complete	Complete	S19-077
08/08/2014	<b>Sutton Bridge</b> Bridge Road	During heavy rainfall the business reported water had entered its property damaging flooring. Surface water flowed off the carriageway over the footway and onto the tarmac & gravel frontage, subsequently entering the property.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC has arranged the surface water drainage system to be jetted and cleaned. The surface water system is now free flowing and deemed adequate to cope with normal rainfall, following level surveys and investigations. Recommendations to alleviate surface water flooding would involve alterations to be made to the footway, carriageway levels and the addition of further gullies in the area. However, any remedial work would have to be done in the future when resources and priorities permit.	No	System has been cleansed and jetted, and will be inspected by LCC Highways on a regular basis.	LCC	Complete	Complete	S19-078

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Lincolnshire County Council Section 19 Investigations - Network North Area E - Contact Officer <u>Jeanne Gibson - Area Highways Manager</u>						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
14/09/2015	Percy Street, <b>Lincoln</b>	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 <b>1 property</b>	LCC	Under initial investigation				On-going		S19-132
Page 63 14/08/2015	High Street, <b>Lincoln</b>	Customer contacted us regardsing on-going issue where water has come into the premises which is affecting their business. This was reported over a year ago and they were promised that something would be done about this. Yet again water has entered the premises and they will have lost over a a couple of thousand pound again. They want to speak to someone today to try to resolve the matter because it is going to rain again today and tonight which could again enter the premises which will affect their business. <b>1 property</b>	LCC	Under initial investigation				On-going		S19-133
14/08/2015	Access to Lexington House, <b>Lincoln</b>	Internal Flooding Newark Road, Lincoln Other info : A crew from Lincoln South Fire Station was called to the flats on Newark Road in the city at about 1.45am 14/8/15. A light pump and strainer was used to pump the flood water from the four flats. A Section 19 investigation required into the cause of the flooding by LCC. <b>4 properties</b>	LCC	Under initial investigation				On-going		S19-134

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Lincolnshire County Council Section 19 Investigations - Network North Area F - Contact Officer Steve Wiles - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Keelby</b> Maple Avenue, Riby Road and Pelham Crescent	Flooding was caused by surcharging surface water sewers combined with overland flows.  <b>4 Properties</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	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.	Yes (may also require Anglian Water investment)	Surface water drainage scheme under consideration. Further LCC investigation and design required. Feasibility 2015/16 Work 2016/17	LCC AW	On-going	Investigation & Feasibility 2015/16 Possible works 2016/17	S19-032
09/06/2014	<b>Gainsborough</b> Marshalls Yard, Elsham Walk, Tower Street, Hill Crescent, Limber Close, Trinity Street, Silver Street, Caldicott Drive, Darwin Street, Rectory Avenue, Spring Gardens, Priory Close, 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 50 properties were flooded internally.  <b>50 Properties</b>	LCC - <b>Yes</b> WLDC - <b>Yes</b> Severn Trent Water - <b>Yes</b>	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	No	Further investigation required by all RMA's	LCC WLDC Severn Trent Water	On-going	Spring 2016	S19-115
19/07/2014	<b>Market Rasen</b> Oxford Street	Following a period of unusually intense rainfall as a result of which the surface water highway drain surcharged, the resultant surface runoff from the road and footway entered the property through the door.  <b>1 Property</b>	LCC - <b>Yes</b>	The recommendations including Cleaning and jetting the entire drainage system. During the routine gully cleansing a minor defects were reported approximately 50m from the property. As part as routine maintenance the blocked connection will be repaired in due course.	No	Routine maintenance will be carried out to remove the blockage from the connection further down the system.	LCC	On-going	End 2015	S19-114
20/07/2014	<b>Scotter</b> Emison close	During heavy rain in the area, the surface water drainage system located on the High Street was unable to cope with the excess water causing it to flow down the eastern side of Emison Close and into the garden. The water entered the property via the garage and air bricks and caused damage to the living area of the property.  <b>1 Property</b>	LCC - <b>Yes</b>	The current drainage system will adequately drain normal amounts of surface water and is free flowing. However, during intense periods it has been shown that the current system will not cope. Investigations are currently being carried out to see if alteration to the footway levels and kerbing will prevent surface water from flowing onto the property. Remedial works to alter footway levels and kerbing will be programmed in the future.	No	LCC to carry out a level survey and further drainage investigations, to identify any problems with the current system and reconstruction works to alter footway and kerbs in the area.	LCC	On-going	End 2015	S19-079

Lincolnshire County Council Section 19 Investigations - Network North Area F - Contact Officer Steve Wiles - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
11/08/2014	South Kelsey Thornton Road	Intense summer rainfall caused a combined sewer in the highway to surcharge, leading to a mixture of surface water and foul water entering the property. Investigations revealed an obstruction in the sewer system.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	The system has been cleaned and jetted out, the nature of the obstruction was unknown, but the system is now running clear. Anglian Water are to carry out an investigation into the condition of the sewer. The property owner has been advised to implement resilience measures to ensure the private connection does not back up in the event of the sewer surcharging. An example of such measures would be the fitting of a non-return valve to the connection.	No	Anglian water to carry out a condition survey of the system and the resident to consider carrying out the fitting of a non-return valve to the private system.	LCC AW Riparian Owner	On-going	End 2015	S19-104

Lincolnshire County Council Section 19 Investigations - Network North Area G - Contact Officer Alan Brown - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
14/08/2015	Under Railway Bridge, Station Road, <b>Potterhanworth</b>	Carriageway flooding Deep flood under railway bridge on station road Potterhanworth. Car stuck and driver freed by Lincolnshire Fire & Rescue. Road closed and traffic.  <b>Carriageway Flooding</b>	LCC	Under initial investigation	TBC	Site Investigation required to identify cause of carriageway flooding	LCC	On-going	2016	S19-131
13/08/2015	Newark Road, <b>North Hykeham</b>	Standing water collects in the carriageway channel at a low point between kerb offlets. Surface water flows over a dropped kerb and footway and down the access to property on Newark Road. <b>1 property</b>	LCC	The length of dropped kerbs and Vehicular access are no longer required Order has been raised to replace with full face kerbs to provide a barrier to water ingress. Further work should follow on to address the standing water on the carriageway.	No	The length of dropped kerbs are no longer required and are to be replaced with full face kerbs Further work should follow on to address the standing water on the carriageway.	LCC	On-going	2016	S19-130

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Lincolnshire County Council Section 19 Investigations - Network North Area H - Contact Officer Dean Myhill - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Horncastle</b> 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.  <b>3 Properties</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b> Witham 3rd IDB - <b>Yes</b>	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.	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 2015/16/17.	LCC	On-going	2014 & 2015 - 2017	S19-004
29/06/2012	<b>Chapel St Leonards</b> The Esplanade	Surcharging from the highway drainage system due to blockages within the system, root ingress and possible concerns over the number of gullies.  <b>2 Properties</b>	LCC - <b>Yes</b>	LCC has investigated the highway drainage system and undertaken a CCTV survey which indicates blockages and root infestation. Gullies and connections have been jetted. Further work is planned to clear roots and blockages within the system, and install additional gullies. The improvements are currently being designed and costed.	No	Work being designed and costed	LCC	On-going	Design 2014/15	S19-012
28/06/2012	<b>Louth</b> Riverhead Terrace, Louth	During heavy rainfall (estimated to be a 1 in 60 year event) flooding took place in Riverhead Terrace due to overland flows from adjacent Riverhead development, and flows from the Terrace area being unable to escape.  <b>3 Properties</b>	East Lindsey District Council - <b>Yes</b> Anglian Water - <b>Yes</b>	Development has taken place to the east and north of Riverhead Terrace, which is partially complete. The new development is significantly higher than the Terrace, and has severed the natural drainage and flow routes from Riverhead Terrace, such that surface water from the Terrace and land to the north is trapped against the new development.  The only means of surface water disposal from Riverhead Terrace is now via a combined gravity system with an assisted foul pumping station. The pumping station was installed, subsequent to development, at the east of Riverhead Terrace. It is unlikely that this foul pumping station will have the capacity to deal with surface water flows from Riverhead Terrace and its catchment area.  The new development is to be drained by Anglian Water foul and surface water sewer systems and also involves the culverting of a watercourse which previously drained the land to the north and east of the Terrace.  Due to the elevation of the new development the plans included a retaining	No	ELDC commissioned a hydrological study in April 2013 which is now complete. The report makes a number of recommendations - the most significant being to install a much larger AW pumping station. AW to make a scheme submission as part of their Price Review 14 process. Works have commenced (Aug 2014) into the upgrade of the sewer system. Work to be carried out in two phases, first being Ramsgate Road Area and then Phase two to include improvements to the Riverhead Area. All works to be completed by the end April 2015.	AW ELDC	On-going	Completion due Summer 2015	S19-016

Lincolnshire County Council Section 19 Investigations - Network North Area H - Contact Officer Dean Myhill - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
09/06/2014	<b>Salfleet</b> Pump Lane	Extreme rainfall estimated at a 1 in 60 year event caused significant overland and surface water flow to enter this low lying property due to capacity issues of existing surface water drainage system. Lack of effective drainage within the property boundary is also a contributing factor. The same property also experienced similar internal / external flooding on 28th June 2012 - Report Ref S19-015  <b>1 Property</b>	LCC - <b>Yes</b>	In 2012 ELDC installed a new manhole and cleansed and jetted the existing system. However, the property flooded again in 2014. Following this latest investigation, LCC Highways will carry out works outside the property which includes the installation of additional drainage apparatus (gullies & pipes) into the existing system. LCC Highways will also look into reconstructing the vehicular access with an increased kerb upstand.	No	LCC Highways to undertake drainage improvement work and carry out improvements to the vehicular access of the property.	LCC	On-going	Summer 2015	S19-087
09/06/2014	<b>Salfleet</b> Main Road	Extreme rainfall (1 in 60 year event) meant the highway drains were unable to cope with the amount of surface water on the carriageway and overland flow from the surrounding land.  <b>1 Property</b>	LCC - <b>Yes</b>	Following the investigation into the flooding several factors were identified: Level of property which is situated 1.3m below carriageway surface; surface water system capacity issues were also identified due to the extreme rainfall event; and surface water and overland flows from adjacent land. The recommendations identified the need for replacement of a 48m section of pipe to remove a bottle neck within the system. Additional works to possibly re-line sections of the pipe, repair damaged sections and root cutting works are to be programmed for 2015.	No	Root cutting ,possible re-lining the pipe and replacement of section of pipe.	LCC	On-going	Summer 2015	S19-094
<b>Page 70</b> 09/06/2014	<b>Manby</b> Chapel Lane Provost Road / Carlton Road	Following the two periods of extreme rainfall that fell during Monday 9th and Tuesday 24th June, the surface water highway drains were unable to cope with upto 31mm of rain falling in 1 hour. Majority of the surface water was initially discharged from ELDC carpark and adjacent playground onto the carriageway.  Lincolnshire Fire & Rescue attended the scene to pump out excessive surface water.  <b>3 Properties</b>	LCC - <b>Yes</b>	ELDC arranged to cleanse and jet the existing system and carry out a full investigation. The report identifies that the current system requires a major upgrade including the installation of new pipes and gullies. ELDC is installing a holding tank within its property to control the discharge of surface water onto the highway.	No	Work to upgrade the existing drainage system has been completed; the installation of the holding tank is due to be carried out very soon by ELDC.	ELDC	On-going	End 2015	S19-095

Lincolnshire County Council Section 19 Investigations - Network North Area H - Contact Officer Dean Myhill - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
08/08/2014	Louth High Holme Road	Extreme rainfall caused significant overland flow and highway surface water to enter low lying properties; this was due to capacity issues of the existing surface water drainage system. Residents in the properties were evacuated to temporary accommodation due to internal flooding.  <b>1 Property</b>	LCC - Yes	LCC to issue a small footway drainage improvement scheme to help alleviate problems in the area although this will not resolve the problems during extreme rainfall, but may offer assistance during heavy / average rainfall.	No	LCC Highways to undertake a small footway/drainage scheme and carry out further investigations regarding drainage capacity issues.	LCC	On-going	Spring 2015	S19-088
08/08/2014	Louth Sandringham Drive	Extreme rainfall in the Louth area, caused a property to flood internally. The property is located at a low point and surface water from the highway entered the garage and flooded the living room and conservatory. The surface water gully located in the carriageway outside the vehicle access may of been blocked or the amount of surface water may of overwhelmed the drainage system causing the internal flooding to the property.  <b>1 Property</b>	LCC - Yes	Due to the intensity of the rain cleaning and jetting the system won't completely resolve the issue. Assuming the drainage system is kept in good working order the most likely solution to ease the problem of flooding will be to increase the upstand of the dropped kerbs to +25mm. This will be carried out as a small highway maintenance scheme.	No	Minor works to increase the upstand of the dropped kerbs will be carried out in due course	LCC	On-going	End of 2015	S19-126
08/08/2014	Louth Westgate	Extreme rainfall in the Louth area, caused 2 properties to flood internally. The properties are at a particular low topographical point of the town and subject to overland and highway surface water to flow from the higher land in the south.  <b>2 Properties</b>	LCC -Yes	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.  LCC Highways to arrange for a CCTV drainage investigation to be carried out. Depending upon the results may arrange for a scheme to be carried out to upgrade the existing system or create additional facilities.  Once a solution is identified and costed, funding / contribution may be applied for through the LLFA.  A flood alleviation scheme is planned for the River Lud at Riverhead in Louth.	TBC	CCTV drainage investigation to be carried out in due course.	LCC	On-going	End 2015 TBC	S19-124

Lincolnshire County Council Section 19 Investigations - Network North Area H - Contact Officer Dean Myhill - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
10/08/2014	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.  <b>1 Property</b>	LCC - Yes	<p>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.</p> <p>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.</p>	No	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.	LCC	On-going	End of 2015 TBC	S19-125



Lincolnshire County Council Section 19 Investigations - Network North Area J - Contact Officer - Andrew Ratcliffe - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Horncastle</b> East Street and Stanhope Road Area	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 East Street and Stanhope Road. The extreme rainfall overwhelmed the highway drainage system which was also suffering from surcharged outfalls due to high river levels.  <b>2 Properties</b>	LCC - <b>Yes</b>	LCC has undertaken a CCTV survey of the highway drainage system in the area which has identified some minor defects and obstructions which will be addressed. LCC has also undertaken initial modelling work to help understand and assess the surface water flood risk in Horncastle. A further meeting with Anglian Water is to be arranged, and a bid for an overall surface water study for Horncastle is being submitted by LCC.	Yes	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 2015/16/17.	LCC AW	On-going	2014 & 2015 - 2017	S19-001
28/06/2012	<b>Horncastle</b> West Street	Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent school field, hillside and Lincoln Road. The surface water collected at the bottom of the hill causing flooding to the Grammar School and adjacent properties in West Street.  <b>3 Properties</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	LCC has undertaken a check of the highway drainage system in West Street and has cleaned out a number of gullies and removed the blockages. 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.	Yes	Blockages removed and gas main relocated. 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 2015/16/17.	LCC	On-going	2014 & 2015 - 2017	S19-002
28/06/2012	<b>Horncastle</b> South Street and Bull Ring	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.  <b>3 Properties</b>	Anglian Water - <b>Yes</b> LCC - <b>Yes</b>	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.	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.	LCC	On-going	2014 & 2015 - 2017	S19-003

Lincolnshire County Council Section 19 Investigations - Network North Area J - Contact Officer - Andrew Ratcliffe - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Horncastle</b> Mark Avenue, Accommodation Road and 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.  <b>14 Properties</b>	Anglian Water - <b>Yes</b> Witham 3rd IDB - <b>Yes</b> East Lindsey District Council - <b>Yes</b>	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.	Yes	Ditches cleaned out. Discussions ongoing between Anglian Water and Witham 3rd IDB regarding ownership. 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 2015/16/17.	LCC AW Witham 3rd IDB	On-going	2014 & 2015 - 2017	S19-005
28/06/2012	<b>Horncastle</b> Bowl Alley Lane	Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent school field and Bowl Alley Lane. The surface water collected at the lowest point causing flooding to the adjacent properties in Bowl Alley Lane.  <b>3 Properties</b>	Anglian Water - <b>Yes</b> LCC - <b>Yes</b>	Whilst the flooding was caused by extreme rainfall and overland flows, LCC has undertaken a CCTV survey of the underground surface water systems in the area. This has revealed a number of condition concerns in relation to the system owned by Anglian Water. The report has been passed to Anglian Water and future discussions will be undertaken in order that it considers future action and repairs. In addition, LCC is planning to install additional drainage protection features in front of the affected properties, and is in discussion with the school with respect to intercepting flows from the school car park. A bid for an overall surface water study for Horncastle is being submitted by LCC.	Yes	Partnership scheme developed between LCC Highways, Education, AW and initial work 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 2015/16/17.	LCC AW	On-going	2014 & 2015 - 2017	S19-006
28/06/2012	<b>New Bollingbrooke</b> Main Road/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.  <b>7 Properties</b>	LCC - <b>Yes</b>	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.	No	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.	LCC	On-going	2014 - 2016	S19-007

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28/06/2012	<b>Toynton St Peter</b> 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.  <b>1 Property</b>	Witham 4th IDB - <b>Yes</b> LCC - <b>Yes</b>	It is recommended that a new watercourse be cut to the south to divert flows from Toynton 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.	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 2018/20.	Witham 4th IDB	On-going	Investigation 2016/17/18 Possible works 2018/19/20	S19-010
28/06/2012	<b>Wainfleet</b> Station Road	Internal flooding to four properties, during intense rainfall, due to inoperative highway drainage system. This was caused by damage from utility companies and the outfall/ditch not being maintained.  <b>4 Properties</b>	LCC - <b>Yes</b>	LCC should clean all gullies and restore the highway drainage system and ensure these are running efficiently to the River Steeping. Further monitoring should be carried out.	No	LCC have cleaned all gullies, restored the highway drainage system and ensured they are running efficiently to the River Steeping - further monitoring to be carried out	LCC	On-going	End 2015	S19-017
28/06/2012	<b>Skegness</b> Sunningdale Drive	Intense rainfall overwhelmed AW surface water sewer system causing internal flooding to one property.  <b>1 Property</b>	Anglian Water - <b>Yes</b>	Investigations by AW discovered three blockages/damage to the main surface water sewer on Sunningdale Drive, due to incursions from other utility companies.	No	Blockage/damages have now been addressed by AW and the private drainage system cleared. AW has applied for funding to CCTV survey the remainder of the system.	AW	On-going	End 2015	S19-018
06/07/2012	<b>Burgh Le Marsh</b> High Street	Overland and highway surface water flows entering low lying property due to suspected lack of capacity and defects in the surrounding highway drainage system, despite previous kerbing works aimed to mitigate problem.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC have investigated the surface water system and identified damage caused by utility activity. LCC will enforce repair once utility has been identified.	No	Works to raise kerbs and regrade footway in hand. New surface water sewer/drain in carriageway with outfall to Catchwater Drain is budget dependent. Initial discussions with LMIDB have been undertaken to investigate routing and outfall locations.	LCC LMIDB	On-going	End 2015	S19-024
09/06/2014	<b>Hagworthingham</b> Sausthorpe Road	Following torrential rainfall, drains were unable to expell the surface water causing it to flow onto the driveway and enter the property owners conservatory.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC Highways has cleansed and jettted the existing drainage system. The report into the drainage investigation is still outstanding and CCTV investigation of the drainage system will be carried out if required.	No	Drainage system has been jettted and cleansed awaiting report. If required a CCTV investigation will be carried out to identify any problems within the system.	LCC	On-going	Summer 2015	S19-092

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09/06/2014	<b>Bucknall</b> Platts Lane	Extreme rainfall caused significant surface water to flow along the highway. The highway drains were unable to cope, allowing water to flow over the kerbed accesses to the properties, causing internal flooding.  <b>2 Property</b>	LCC - <b>Yes</b>	LCC to clean and jet the whole system through to the outfall to ensure the system is running free. Minor highway maintenance is required to remove a pedestrian dropped kerb access to mitigate flooding to one of the properties. Further highway work to be programmed to remove an area in front of the kerb, this will increase the kerb face and direct water away from the second property. Further drainage investigations may be required. Install additional gullies up stream of the affected properties.	No	Following the cleansing and jetting of the entire system highway maintenance work and further drainage investigations will be funded during 2015.	LCC	On-going	Summer 2015	S19-093
24/06/2014	<b>Horncastle</b> Langton Hill	Extreme rainfall estimated at being a 1 in 30 to 1 in 100 year event resulted in significant overland flows from the surrounding land. The combined surface water and overland surface water flow overwhelmed the highway sewer system on Langton Hill and West Street and caused flooding at the bottom of the hill which affected one property.  <b>1 Property</b>	LCC - <b>Yes</b>	Following a similar event in 2012, works were undertaken by AW and LCC Highways to rectify defects to the surface water systems along Langton Hill and West Street. However, defects to one section of the highway drainage system are yet to be completed. There appears to be issues with the capacity of the system in the area. LCC recommend the completion of the initial project identified in 2012 along with profiling the footway and lifting the kerb face to divert surface water away from the property, this is currently underway. There is also a ditch at the higher end of Langton Hill which requires cleaning out and Witham 3rd IDB require action by the riparian land owners.	No	Reprofiling of the footway is currently underway along with the completion of outstanding works; all due to be completed by the end of March 2015. The cleaning out of the ditch is yet to be undertaken by the riparian owner.	LCC Witham 3rd IDB AW	On-going	Completeion due Spring 2015	S19-096
09/06/2014	<b>Skegness</b> North Parade	Intense summer rainfall caused internal flooding to the hotel. Surface water entered the building via the ladies toilets.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	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.	No	Further investigations to be carried out by AW and recommendations advised to property owners.	LCC AW	On-going	Spring 2015	S19-101
24/06/2014	<b>Skegness</b> Sunningdale Close	Following torential rain, the highway drains were unable to cope with the amount of surface water on the carriageway. The flood water entered the property.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	AW to investigate the capacity of the surface water system The property owners should concider 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.	No	Further investigations to be carried out by AW and recommendations advised to property owners.	LCC AW	On-going	Spring 2015	S19-098

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24/06/2014	<b>Skegness</b> 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.  <b>1 Property</b>	LCC - <b>Yes</b>	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.	No	Further investigations to be carried out by AW and recommendations advised to property owners.	LCC AW	On-going	Spring 2015	S19-099
24/06/2014	<b>Skegness</b> Theartre, 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.  <b>1 Property</b>	LCC - <b>Yes</b>	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.	No	Further investigations to be carried out by AW & ELDC	LCC AW ELDC	On-going	Spring 2015	S19-100
27/06/2014	<b>Skegness</b> Junior School Academy Pelham Road	During torrential rain, school corridors were overwhelmed with flood water from the 3 internal downpipes located within the schools corridor. Due to the back up of silt and debris located in the main drain on Pelham Road, excess water from the downpipes overflowed into the Year 5 corridor causing internal flooding.  <b>1 Property</b>	LCC - <b>Yes</b>	AW should investigate the surface water system for possible restrictions to flow. Further investigations regarding the outfall of the system need to be undertaken in due course.	No	Further investigations to be carried out by AW	LCC AW	On-going	Summer 2015	S19-102
08/08/2014	<b>Friskney</b> Fold Hill / Low Road	Intense rainfall that fell over a short period of time and flowed over agricultural land causing internal flooding to one property.  <b>1 Property</b>	LCC - <b>Yes</b> Witham 4th IDB - <b>Yes</b> ELDC - <b>Yes</b>	All drainage systems should be cleaned out and long term maintenance strategy considered by the owners of the assets.	No	Witham 4th IDB have agreed to clean out and adopt a short section of ditch downstream of the culverted system. ELDC and LCC are contributing to an investigation and a one off clean of the riparian system.	LCC ELDC Witham 4th IDB	On-going	End 2015	S19-117
08/08/2014	<b>Wainfleet All Saints</b> Bethlem Crescent	Intense rainfall that fell over a short period of time caused internal flooding to one property.  <b>2 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	AW should consider investigating the surface water drainage system within the local area to determine if there is sufficient capacity to drain the local area to 1 in 30 year standard	No	Further investigations to be carried out by AW	LCC AW	On-going	End 2015	S19-118

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08/08/2014	<b>Horncastle</b> Stanhope Road	Extreme rainfall caused significant highway flows to collect at the low area of Stanhope Road; overwhelming both the Anglian Water Surface Water Sewers and the highway drainage system.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	Following the flooding in 2012 LCC have carried out a CCTV survey of the highway drainage system which identified some minor defects and obstructions AW will be undertaking a CCTV survey of their system. LCC have undertaken modelling work to help understand and assess surface water flood risk in Horncastle. There is also a flood alleviation scheme planned for Horncastle and the River Bain. The defects and obstructions will need to be addressed and consideration for additional gullies and connections.	Yes	A meeting has been planned with AW to discuss the findings of both the CCTV surveys, consider the work required and to ensure a collaborative resolution.	LCC AW	On-going	End 2015 TBC	S19-120
08/08/2014	<b>Wainfleet All Saints</b> High Street	Extreme rainfall caused significant highway flows. The rainfall on the carriageway overwhelmed the highway surface water systems on the High Street, Which flowed over the kerb and the movement of passing vehicles caused flooding to one property.  <b>1 Property</b>	LCC - <b>Yes</b>	Following further flooding LCC will undertake cleaning and jetting of the highway surface water system through to the outfall to clear any blockages; however, due to the location and the proximity of the railway crossing permissions to work in the area will need to be granted by Network Rail before any works can commence. If the above does not resolve the issues or if any defects are found a full CCTV survey will be commissioned to ascertain the extent of any defects.	No	Works to clean and jet the surface water system to be programmed but there are issues whilst working near railways that need to be addressed prior to any works commencing.	LCC	On-going	End 2015 TBC	S19-121
19/09/2014	<b>Irby In The Marsh</b> Wainfleet Road	Extreme rainfall caused significant highway flows. The rainfall on the carriageway overwhelmed the highway surface water systems on Wainfleet Road, flowing over the dropped access kerbs and causing flooding to one property.  <b>1 Property</b>	LCC - <b>Yes</b>	Highway works are to be undertaken to install a tarmac bund in the access to redirect surface water away from the property towards the highway gully and ditch. Further works to be programmed during 2015 include cleaning and jetting the gully and connections to ensure they are working efficiently.	No	Initial works to install a tarmac bund in the access have been carried out. Works to clean and jet the gully and connections to be carried out shortly	LCC	On-going	End 2015	S19-122
05/06/2015	Police Station, Park Avenue, <b>Skegness</b>	<b>TBC - 1 property</b>	LCC	Under initial investigation, awaiting feedback				On-going		S19-142
04/07/1905	<b>Woodhall Spa</b> Green Lane	Internal Flooding due to a Riparian owned ditch overtopping and entered property notified LLFA feb 15 flooding incident 2012	Witham 3rd IDB	Internal flooding confirmed investigation & report ongoing				On-going		S19-143

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Lincolnshire County Council Section 19 Investigations - Network South Area L - Contact Officer - Rowan Smith - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Ruskington</b> High Street North and South, Manor Street, Chapel Street and Chestnut Street	Overtopping of Ruskington Beck (Main River) and surcharge of foul sewers and overtopping of riparian watercourse.  <b>6 Properties</b>	Environment Agency- <b>Yes</b> Anglian Water - <b>Yes</b> Witham 1st IDB (Enforcement) - <b>Yes</b>	The Environment Agency is to remodel Ruskington Beck (hydraulic) and carry out riparian enforcement. Anglian Water is investigating the foul water system and is considering an improvement scheme. A bid for an overall study for Ruskington has been submitted for feasibility, design and works.	Yes	Investigation ongoing LCC, AW, EA meeting held with all partners' involved to discuss scheme brief. Feasibility and Design 2014/15; possible work 2016/17.	LCC AW EA	On-going	Feasibility and Design 2014/15 Possible works 2015-17	S19-045
28/06/2012	Cranwell Thorald Avenue	Surface water surcharge from private parking area and highway gullies onto private property causing internal flooding of conservatory. Possible contributing factors due to the development of adjacent land which was historically an area of flood plain. Non maintenance of riparian watercourse.  <b>1 Property</b>	Witham 1st IDB - <b>Yes</b> LCC - <b>Yes</b> North Kesteven District Council - <b>Yes</b>	Investigations ongoing between LCC, North Kesteven District Council and Landowners. Work to divert water away from garages being looked at. Landowner has been written to regarding possible cutting of new dyke.	No	Investigations ongoing LCC, NKDC, Landowners possible work being investigated to divert highway water away from private land. Survey complete & report received. Further meeting with NKDC Nov 2014.	LCC NKDC	On-going	End 2015	S19-047
28/06/2012	<b>Digby</b> North Street	Overland flow from field into private properties, also blocked culvert/watercourse on school playing field.  <b>8 Properties</b>	LCC - <b>Yes</b> Witham 1st IDB - <b>Yes</b>	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.	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 2014/15. Possible works 2015/16/17.  AW investigating sewer system	LCC Witham 1st IDB EA AW	On-going	Feasibility and Design 2014/15 Possible works 2015-17	S19-048
28/06/2012	<b>Digby</b> Beck Street	Over Topping Digby Beck (Main River) and capacity issues on the foul sewer.  <b>2 Properties</b>	Environment Agency- <b>Yes</b> Anglian Water - <b>Yes</b> LCC - <b>Yes</b>	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.	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 2014/15. Possible works 2015/16/17.  AW investigating sewer system	LCC Witham 1st IDB EA AW	On-going	Feasibility and Design 2014/15 Possible works 2015-17	S19-049

Lincolnshire County Council Section 19 Investigations - Network South Area L - Contact Officer - Rowan Smith - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
28/06/2012	<b>Digby</b> The Hurn	Over topping IDB drain (Digbu Beck North Branch) and Riparian Watercourse. <b>10 Properties</b>	Anglian Water - Yes Witham 1st IDB - <b>Yes</b>	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.	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 2014/15. Possible works 2015/16/17.  AW investigating sewer system	LCC Witham 1st IDB EA AW	On-going	Feasibility and Design 2014/15 Possible works 2015-17	S19-050
28/06/2012	<b>Scopwick</b> Main Street	Ditch backing up and overtopping due to volume of surface water in the main surface water pipe system. <b>1 Property</b>	Witham 1st IDB (Enforcement) - <b>Yes</b> LCC - <b>Yes</b>	LCC has jetted the system, further investigations into ownership of main piped drain and open ditch are ongoing. Two pipes under the road culvert were sufficient to cope with the expected flows and no alterations will be required. However, it was agreed that a camera survey would be appropriate to ensure flow was unrestricted, this was completed in Nov 2013. The drainage report clearly shows two intrusions of utility apparatus blocking the flow at two separate points by up to 40%. AW is considering repairs to the breakages and move its services out of the way. Riparian drainage and maintenance works are required. Investigation needed into overland and groundwater flows into new development.	No	Works carried out on replacement of culvert April 2014. Further investigation works to clear other obstructions on going, and liaising with EA in regards to surface water flow.	LCC	On-going	End 2015	S19-052
28/06/2012	<b>Sleaford</b> Southgate	Surface water from public highway and private land flowing into properties through front and rear entrances. <b>2 Properties</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	LCC to advise properties on self prevention measures relating to flood resilience. Anglian Water to investigate capacity of combined system.	No	LCC actions completed but awaiting AW investigation. LCC liaising with Anglian Water in regards to capacity issues.	LCC AW	On-going	End 2015	S19-053
28/06/2012	<b>Timberland &amp; Thorpe Tilney Village</b> Various	Surcharging of open watercourses and assumed restrictions within culverted sections. Surcharge of public surface and foul water systems. <b>3 Properties</b>	Witham 1st IDB - <b>Yes</b> LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	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.	Yes	Local work involving excavations to provide access for CCTV survey on-going. Kerbing work completed. Wider scheme Feasibility and Design 2016/17/18. Possible works 2018/19. LCC to carryout regular monitoring.	LCC	On-going	Feasibility 2017/18 Possible works 2018/19	S19-054
28/06/2012	<b>Swaton</b> West End / High Street	Overland surface water flowing through private land. Separate case of overtopping of Swaton Eau flooding carriageway and property basement. <b>2 Properties</b>	Environment Agency - <b>Yes</b> Black Sluice IDB - <b>Yes</b> LCC - <b>Yes</b>	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.	Yes	EA completed modelling, discussion on-going with LCC regarding possible escape route for residents. Also considering resilience measures for properties.	LCC EA Black Sluice IDB	On-going	EA Feasibility Study 2014/15 Possible works 2016/17	S19-056

Lincolnshire County Council Section 19 Investigations - Network South Area L - Contact Officer - Rowan Smith - Area Highways Manager						Identified Actions/Works				
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06/07/2012	<b>Burton Pedwardine</b> White Cross Lane / Asgardby Road	Surface water surcharge from private open watercourse to the east.  <b>2 Properties</b>	Black Sluice IDB - <b>Yes</b>	Black Sluice IDB to carry out enforcement. Resident met and awaiting proposals which may be subject to a highway contribution. Awaiting confirmation.	No	Discussions still ongoing between LLFA, IDB and residents. LCC have found and cleaned 2 pipes under road.	LCC Black Sluice IDB	On-going	End 2015	S19-062
06/07/2012	<b>Newton near Haceby</b> Newton Village - C343 Walcott Road	Overtopping of riparian dykes.  <b>7 Properties</b>	Black Sluice IDB - <b>Yes</b> LCC - <b>Yes</b>	LCC proposing to replace culvert on Church Road, and the Black Sluice Internal Drainage Board/LCC are to explain further riparian duties to residents. Details of additional enforcement requirements to the east of the village have been sent to the Black Sluice Internal Drainage Board.	Yes	LCC instigated modelling works for catchment area including the village which will take account of new private protection of properties that have been carried out since enforcement letters were sent in June 2013. Proposed culvert replacement programmed. Land Drainage Consent being sort.	LCC Black Sluice IDB	On-going	Feasibility, Design & Build 2014/15/16	S19-065
23/05/2014	<b>Dorrington</b> Main Street	During a period of heavy rainfall this property suffered internal flooding from the lateral sewer beneath the property where water came up through the living room floor. The second event was caused by overland flow where flood water from the garden came in through the rear patio doors.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	Following investigations it is assumed that saturated land and heavy rainfall caused overland water to flow down the gradient to the property. The lateral sewer located beneath the property was blocked by foreign objects which caused the sewer to burst and push water up through the floor. Anglian Water investigated as to where the excess water came from and suggested that it may have gained access from the foul system through the kitchens open gully's at the rear of the property.  LCC highways are considering installing additional gullies near the property and undertake a survey of the dyke to the rear of the property to determine the outfall on the southern side of the village.  Anglian Water to carry out further investigations into ensuring where possible, the excess surface water does not enter the foul water system.  The Internal Drainage Board has been requested to continue monitoring of the dykes, and take enforcement as necessary.  The riparian owner to maintain the dykes that they are responsible for and not to do anything that may restrict their flow.	No	LCC to consider installation of new gullies near the property.  AW to carryout investigations into the foul sewer system.  IDB to continue the monitoring of the dykes and enforce as required.  Riparian owner to maintain the dykes and ensure they do not restrict their flow.	LCC AW IDB	On-going	End 2015	S19-084

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Lincolnshire County Council Section 19 Investigations - Network South Area M - Contact Officer - Mark Heaton - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
29/04/2012	<b>Belton</b> Waterloo Cottages A607	Surface water from public highway and adjacent private land flowing onto properties.  <b>2 Properties</b>	LCC - <b>Yes</b> Upper Witham IDB - <b>Yes</b> Environment Agency - <b>Yes</b> South Kesteven District Council - <b>Yes</b>	Upper Witham Internal Drainage Board has carried out enforcement on riparian owner for watercourse improvements. LCC Highways is designing improvements to the drainage system.	No	New drainage system/dyke renewal (seeking funding). Improvement work designed and due to be built summer 2014. Initial works have started within the private grounds, however, highway work has been delayed due to listed building status of a drystone wall. Original solution could not be built - new solution being considered. Trash screen has been installed.	LCC	On-going	Works have commenced; estimated completion End 2015.	S19-042
28/06/2012	<b>Carlton Scroop</b> Main Street	Surface water run-off from private land running onto highway and entering front of cottage.  <b>1 Property</b>	LCC - <b>Yes</b> Upper Witham IDB - <b>Yes</b>	IDB undertaking enforcement, further LCC investigation to be carried out.	No	IDB undertaking enforcement. Further LCC investigation to be carried out. System jetted, and requires new manhole but will not be placed until other issues have been resolved.	LCC	On-going	Outstanding works due to be completed Summer 2015.	S19-043
06/07/2012	<b>Harlaxton</b> High Street	Current drainage system has insufficient capacity and backed up causing flooding to the carriageway and 2 properties.  <b>2 Properties</b>	LCC - <b>Yes</b> Upper Witham IDB - <b>Yes</b> Anglian Water - <b>Yes</b>	Following detailed investigation, joint work between LCC and Upper Witham IDB has been completed. Investigation to Mow Beck required to understand overall flood risk.	No	LCC surface water scheme completed and EA to investigate Mow Beck watercourse downstream.	LCC EA	On-going	End 2015	S19-060
06/08/2012	<b>Caythorpe</b> 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.  <b>1 Property</b>	LCC - <b>Yes</b>	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.	No	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.	LCC	On-going	End 2015	S19-068
24/08/2015	<b>Grantham</b> Coxmoor Close, St Million Drive, Cavendish Way, Partnership House Withambrook	TBC - <b>4 properties</b>	LCC, AWA, EA	Internal flooding confirmed - investigation & report multiple location	No	Awaiting further information	TBC	On-going	2016	S19-136

Lincolnshire County Council Section 19 Investigations - Network South Area M - Contact Officer - Mark Heaton - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
24/08/2015	<b>Barkston</b> West Street	TBC - 1 property	TBC	Internal flooding confirmed. Initial Investigations	No	Awaiting further information	TBC	On-going	2016	S19-085 repeat location, addition to existing report (addendum)
24/08/2015	<b>Long Bennington</b> Various locations within village	TBC - 23 properties	TBC	Internal flooding confirmed Multiple locations - investigation & report	No	Awaiting further information	TBC	On-going	2016	S19-137
24/08/2015	<b>Westborough</b> Town Street,	TBC - 1 property	TBC	Internal flooding confirmed 10/11/15 investigations & rework ongoing	No	Awaiting further information	TBC	On-going	2016	S19-144
14/09/2015	<b>Grantham</b> Westgate	Following heavy rainfall the premises flooded. There is two drain outside the premises that seem to be blocked up on regular basis. Lincolnshire Fire & Rescue were called to pump the water out of the property but the shop flooring has sustained damaged There is currently no power at the property..  <b>1 property</b>	TBC	internal flooding confirmed - under investigation & report is in progress	No	Awaiting further information	TBC	On-going	2016	S19-139
24/08/2015	<b>Grantham</b> Bridge End Road	Following heavy rainfall the premises sustained flooding. Lincolnshire Fire & Rescue were in attendance.  <b>1 property</b>	LCC / AWA	Initial Investigations letter send out to resident 14/9/15 awaiting confirmation of internal flooding	No	Awaiting further information	TBC	On-going	2016	TBC
24/09/2015	<b>Grantham</b> Alexandra Road	Following heavy rainfall the premises sustained flooding. Lincolnshire Fire & Rescue were in attendance.  <b>1 Property</b>	TBC	Internal flooding confirmed - investigation & report ongoing	No	Awaiting further information	TBC	On-going	2016	S19-138

Lincolnshire County Council Section 19 Investigations - Network South Area M - Contact Officer - Mark Heaton - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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

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Lincolnshire County Council Section 19 Investigations - Network South Area N - Contact Officer - Kevin Brumfield - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
21/11/2012	<b>Corby Glen</b> Irnham road	Overland flow from adjacent farm land.  <b>1 Property</b>	LCC - <b>Yes</b>	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.	No	Application submitted for funding to add inspection chambers and upgrade sewer system along a short section of Irnham Road.	LCC	On-going	End 2015	S19-069
22/05/2014	<b>Bourne</b> Beadhouse Bank	Due to heavy rainfall surface water built up on the unmade road outside the property to an extent where it flowed into the garden to the front door, at which point it entered the property.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC highways are undertaking a resurfacing scheme of Beadhouse Bank, this will level the road with a cross fall towards the existing tarmac section, water will flow away from the properties towards the existing highway gully. The resident has been recommended to install a kerb line to act as a barrier between the highway and the private property. However, LCC to carry out footway improvements works in the area in 2015.	No	Resurfacing scheme to be undertaken including the construction of a kerb line between the private property and highway to act as a barrier.	LCC	On-going	End 2015	S19-080
22/05/2014	<b>Market Deeping</b> Stamford Road	Following heavy rainfall that fell in a short space of time; causing numerous roads and properties in the area to flood. The amount of rain that fell was excessive for the system at optimum capacity.  <b>1 Property</b>	LCC - <b>Yes</b> AW - <b>Yes</b>	LCC to continue to maintain the surface water system; and consider raising the footway kerbs at the front of the property. However, works to the footway may prove difficult due to conflict with a slope to the footpath away from the building and the existing height of the door threshold and damp proof course levels. Anglian Water to maintain the surface water drainage system. The property owner to maintain the rainwater systems and consider further drainage to allow the escape of water from the rear 'bund' area which is a natural water collection area.	No	Consideration by LCC have been made to lift the footpath and Kerb outside the properties to full height, to prevent water overtopping the kerb onto the footway. However there may be issues in doing this. Awaiting report from AW.	LCC AW	On-going	End 2015	S19-112
22/05/2014	<b>Deeping St James</b> Horsegate	Following torrential rain, excess water on the carriageway forced water to overtop the footway and enter the properties causing internal flooding to the public house.  <b>1 Property</b>	LCC - <b>Yes</b> AW - <b>Yes</b> WDIDB - <b>Yes</b>	LCC to repair blockages in highway surface water system.  Welland & Deepings IDB to clear the identified blockages /diversion in their system and ensure the entry feed in the High Street is closed during weather warnings or during periods of heavy rain to ensure there is capacity for surface water two drain away.  AW to maintain the surface water drainage systems with recommendation that its system diverts into the watercourse on the High Street instead of linking with the WDIDB watercourse.  Resident to consider adding drainage to their exit to the driveway.	No	Maintenance work to be carried out by LCC.  Property owner advised on preventative measures to protect the property.  AW to clean & jet its system and divert the current system into the watercourse on the high street. its their entry feed on the High Street is closed during periods of heavy rain.	LCC AW WDIDB	On-going	End 2015	S19-105

22/05/2014	<b>Deeping St James</b> Horsegate	Following torrential rain, excess water on the carriageway forced water to overtop the footway and enter the properties causing internal flooding to the residential properties.  <b>3 Properties</b>	LCC - <b>Yes</b> AW - <b>Yes</b> WDIDB - <b>Yes</b>	LCC to repair blockages in highway surface water system.  AW to maintain the surface water drainage systems with recommendation that its system diverts into the watercourse on the High Street instead of linking with the WDIDB watercourse.  Welland & Deepings IDB to clear the identified blockages /diversion in their system and ensure the entry feed in the High Street is closed during weather warnings or during periods of heavy rain to ensure there is capacity for surface water two drain away.	No	Maintenance work to be carried out by LCC.  Property owner advised on preventative measures to protect the property.  AW to clean & jet its system and divert the current system into the watercourse on the high street.  its their entry feed on the High Street is closed during periods of heavy rain.	LCC AW WDIDB	On-going	End 2015	S19-106
22/05/2014	<b>Market Deeping</b> 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.  <b>1 Property</b>	LCC - <b>Yes</b> AW - <b>Yes</b> WDIDB - <b>Yes</b>	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.	No	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.	LCC AW	On-going	Summer 2015	S19-107
22/05/2014	<b>Market Deeping</b> 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.  <b>1 Property</b>	LCC - <b>Yes</b> Anglian Water - <b>Yes</b>	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.	No	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.	LCC AW	On-going	End 2015	S19-108
20/07/2014	<b>Stamford</b> Water Lane	Following a short period of heavy intense rain, surface water from the highway entered the ground floor of the property.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC to undertake a drainage survey of the system this work has been programmed for 2015	No	carry out a survey of the drainage system Works are programmed during 2015.	Due to complete Summer 2015	On-going	End 2015	S19-116
03/08/2014	<b>Uffington</b> Casewick Lane	During a short burst of heavy rainfall, surface water entered the conservatory.  <b>1 Property</b>	LCC - <b>Yes</b>	LCC have recommended that the kerb height be increased to ensure rainwater is directed away from the property and into the gully, additional gullies will be placed along the carriageway.  AW to continue to maintain their system.	No	LCC to lift the kerb height and install additional gullies. Works to commence in 2015.	LCC AW	On-going	End 2015	S19-109
10/08/2014	<b>Stamford</b> Northumberland Avenue	Due to heavy rainfall, and a waterlogged public open space in front of the property; excess groundwater encroached the threshold and entered the property damaging the hallway carpets and flooring.  <b>1 Property</b>	LCC - <b>Yes</b> SKDC- <b>Yes</b> AW - <b>Yes</b>	All highway surface water gullies had been cleaned out and jetted prior to the flooding incident, although we have recommended that the system have further investigations carried out in due course. It is believed the Highway surface water system was not the cause of flooding to the property other than the public open space. AW are to survey the site to ascertain whether the combined drainage system is sufficient to accommodate all the downpipe connections from the properties. SKDC to survey the Public Open Space and identify the manhole cover and determine which drainage system it is connected to and if the manhole/catchpit is clear.	No	LCC to carry out CCTV investigations of the highway drainage system. SKDC to carry out investigations of the drainage system within the public open space. AW to ascertain whether the combined drainage system is adequate to serve the properties.	LCC SKDC AW	On-going	End 2015	S19-111

04/07/2015	Bainton Road, <b>Tallington</b>	<p>The customer states that the main cause of flooding is water backing up and surcharging out of the four gullies in front of the property.</p> <p>The gullies feed into a AW sewer approximately 10-15m downstream. Water backs up and surcharges out of the gullies, which then floods the property. AW have been doing investigation into this system over the past few months</p> <p><b>1 property</b></p>	LCC / AW	<p>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.</p> <p>Anglian Water to investigate the sewer system and inspect and service the flood gates at the property to ensure they are fit for purpose.</p>	No	<p>A program of gully cleansing to be carried out shortly, Also a AW to inspect and service the flood gates at the property that they installed, additionally the sewer system requires further investigations to be carried out by Anglian Water.</p>	LCC AW	On-going	Spring 2016	S19-129
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Lincolnshire County Council Section 19 Investigations - Network South Area P - Contact Officer - Andy Wharff - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
05/12/2013	Lincolnshire coastal towns and villages and various properties along inland tributaries.  Various streets in Boston, Friskney, Trusthorpe, Skegness, Gibraltar Point, Tetney Marsh, Wrangle and Susworth	Following the tidal inundation over the weekend, highway, properties, businesses and high grade agricultural land suffered serious flooding. The incident occurred due to extremely high tides combined with low air pressure and onshore wind direction. Extensive damage was caused to sea defences along the East Coast and tidal tributaries inland including The River Witham Haven, Lower River Trent & River Humber.  <b>820 Properties</b>	Black Sluice IDB - <b>Yes</b> Witham 4th IDB - <b>Yes</b> South Holland IDB - <b>Yes</b> Environment Agency - <b>Yes</b> Anglian Water - <b>Yes</b> Boston Borough Council - <b>Yes</b> Lincolnshire County Council - <b>Yes</b> East Lindsey District Council - <b>Yes</b> South Holland District Council - <b>Yes</b> West Lindsey District Council - <b>Yes</b>	<b>Skegness</b> - Following partial destruction of the stone wall at the rear of the promenade, discussions are underway with ELDC to agree partnership funding for a permanent solution based on a structural and cosmetic spilt. Work to construct this permanent flood wall will be undertaken under the local regeneration scheme later this year.	Yes	EA & ELDC staged approach to construction of permanent flood wall.	Shoreline management partnership approach involving: Black Sluice IDB Witham 4th IDB Sth Holland IDB EA AW BBC LCC ELDC SHDC WLDC	On-going	Complete March 2015	S19-075
				<b>Boston</b> - Preparation of the Transport and Work Act Order for the Boston Barrier Scheme for submission to the secretary of state is due to be submitted in Autumn 2015. Subject to approval, the programme for delivering a multi-functional tidal barrier includes construction to start during summer 2017 taking approximately 2.5 years for completion.	Yes	Recommendations remain current. DEFRA consulting on Environmental Assessment scope.		On-going	2017 - 2020	
				<b>Gibraltar Point</b> - No emergency work has been undertaken. However, the Environment Agency are looking at the future of Bulldog Bank sea defence and are reviewing the economic justification to fund its repair. If funding is not achievable alternative options will be considered.	Yes	Recommendations remain current. Mathematical model undertaken and being assessed.		On-going	TBA	
				<b>Skegness to Mablethorpe Coastline</b> - The annual beech nourishment campaign (Lincshore) ran between April & June 2014, replenishing the material lost over the last year. Over a 20km stretch, 6 areas have been re-nourished in this years campaign.	Yes	Recommendations remain current. Salfleet to Gibraltar Point Coastal Strategy Review currently being undertaken.		On-going	TBA	
				<b>Bath Gardens</b> - The tidal surge led to partial failure of a 10m section of a brick flood wall. Sand bags were used, not only to temporarily secure the opening, but also afterwards to protect the new brickwork against subsequent New Year high tides.	No	Recommendations remain current.		Completed	Complete	
				<b>Black Sluice Pumping Station</b> - 5 diesel pumps became submerged by floodwater, causing temporary loss of power and saline intrusion to the diesel pumps and gearing mechanisms. Following maintenance work to the pumping station it has now been brought back to working order.	Yes	Recommendations remain current. Black Sluice Strategy Review being undertaken.		On-going	TBA	
				<b>Slippery Gowt</b> - Following a 40m wide breach, an immediate temporary repair was completed during December to secure the defence using sheet piling and stone. A permanent repair to improve the defence is underway.	Yes	Permanent repair work completed. Further improvement works to be undertaken following ground investigation.		On-going	Oct 2014 - Mar 2015	
				<b>Jakeman's Slip</b> - Area downstream of Grand Sluice on the left bank of The Haven showed signs of movement following the New Year high tides. 300 tonnes of stone was placed and completed in March 2014 to prevent further slippage.	No	Recommendations remain current. Further monitoring confirmed no more work.		Completed	Complete	
				<b>The Haven (St Ann's Wharf and White Horse Lane)</b> - Movement of the flood wall was evident in a number of locations and a structural survey was undertaken. The flood wall was repaired along Oxford Street, and a new 30m wall constructed at White Horse Lane.	No	Recommendations remain current.		Completed	Complete	
				<b>The Wash</b> - The area south of Horseshoe Point where bank raising is required has been identified within the Medium Term Plan for completion. Following a meeting in January 2014 to discuss the localised community emergency and flood plan (CEFP), this will include the use of flood wardens and the creation of networks to share information.	Yes	Recommendations remain current. Works still progressing in Medium Term Plan to deliver improved defences.		On-going	TBA	
<b>Susworth</b> - Preventative measures for residents, including raising the top step of the footway on the river bank.	No	Raise footway.	On-going	TBA						

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Lincolnshire County Council Section 19 Investigations - Network South Area R - Contact Officer - Debra Greeves - Area Highways Manager						Identified Actions/Works				
Date of Incident	Town & Location	Description of Flooding	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
20/07/2014	<b>Crowland</b> 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.  <b>1 Property</b>	LCC - <b>Yes</b>	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.	No	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.	LCC	On-going	2016	S19-113
May / June 2014	<b>Spalding</b> Roman Bank	Deetails of flooding to be confirmed	TBC	Preliminary Investigations ongoing				On-going		S19-140
October 2015	<b>Sutton St James</b> Chapelgate	Deetails of flooding to be confirmed	TBC	Preliminary Investigations ongoing				On-going		S19-141

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**Open Report on behalf of Richard Wills, Director responsible for Democratic Services**

Report to:	<b>Flood and Drainage Management Scrutiny Committee</b>
Date:	<b>11 December 2015</b>
Subject:	<b>Flood and Drainage Management Scrutiny Committee Work Programme</b>

**Summary:**

This report enables the Flood and Drainage Management Scrutiny Committee to consider its Work Programme for the coming year.

**Actions Required:**

To consider and comment on the work programme as set out in Appendix A to this report.

## **1. Background**

At every meeting of the Committee, Members will be invited to consider their future Work Programme and to agree on items to be included.

### Work Programme Definitions

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

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

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

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

Status Report - The Committee is considering a topic for the first time where a specific issue has been raised or members wish to gain a greater understanding.

Update Report - The Committee is scrutinising an item following earlier consideration.

Scrutiny Review Activity - This includes discussion on possible scrutiny review items; finalising the scoping for the review; monitoring or interim reports; approval of the final report; and the response to the report.

**2. Conclusion**

To consider and comment on the Committee's work programme.

**3. Consultation**

**a) Policy Proofing Actions Required**

Not applicable.

**4. Appendices**

These are listed below and attached at the back of the report	
Appendix A	Flood and Drainage 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 Simon Evans, who can be contacted on 01522 553607 or [simon.evans@lincolnshire.gov.uk](mailto:simon.evans@lincolnshire.gov.uk)

## Flood and Drainage Management Scrutiny Committee

Chairman: Councillor Lewis Strange

Vice Chairman: Councillor Victoria Ayling

<b>11 December 2015, 10.00am</b>		
<b>Item</b>	<b>Contributor</b>	<b>Purpose</b>
Wrangle Sea Banks	Peter Bateson, Chief Executive, Witham Fourth District, Internal Drainage Board  Stafford Proctor, Wash Frontagers' Group	Status Report
Louth and Horncastle Flood Alleviation Schemes Update	Deborah Campbell, Environment Agency	Update Report
Boston Barrier	Deborah Campbell, Environment Agency	Update Report
Black Sluice Catchment	Deborah Campbell, Environment Agency  Ian Warsap, Chief Executive, Black Sluice Internal Drainage Board.	Update Report
Common Works Programme & Lincolnshire County Council Capital Schemes 2015-16	Mark Welsh, Flood Risk and Development Manager	Status Report
Investigations held under Section 19 of the Flood and Water Management Act 2010	Mark Welsh, Flood Risk and Development Manager	Update Report

<b>26 February 2016, 10.00am</b>		
<b>Item</b>	<b>Contributor</b>	<b>Purpose</b>
Louth and Horncastle Flood Alleviation Schemes Update	Deborah Campbell, Environment Agency	Update Report
Coastal Vision and Water Management	David Hickman, Environmental Services Team Leader (Strategy and Partnerships)	Update Report
The Potential Impact of Devolution on Flood and Drainage Management	David Hickman, Environmental Services Team Leader (Strategy and Partnerships)	Status Report
Investigations held under Section 19 of the Flood and Water Management Act 2010	Mark Welsh, Flood Risk and Development Manager	Update Report

Future meetings of the Flood and Drainage Management Scrutiny Committee are programmed on the following dates:

- 13 May 2016
- 22 September 2016
- 9 December 2016

For more information about the work of this Committee please contact Simon Evans, Health Scrutiny Officer on 01522 553607 or by e-mail at [simon.evans@lincolnshire.gov.uk](mailto:simon.evans@lincolnshire.gov.uk)