



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

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

Summary:

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

Actions Required:

The Committee is invited to:

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

1. Background

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

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

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

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

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

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

The current status of active S.19 reports is shown in table 1 below.

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

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

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

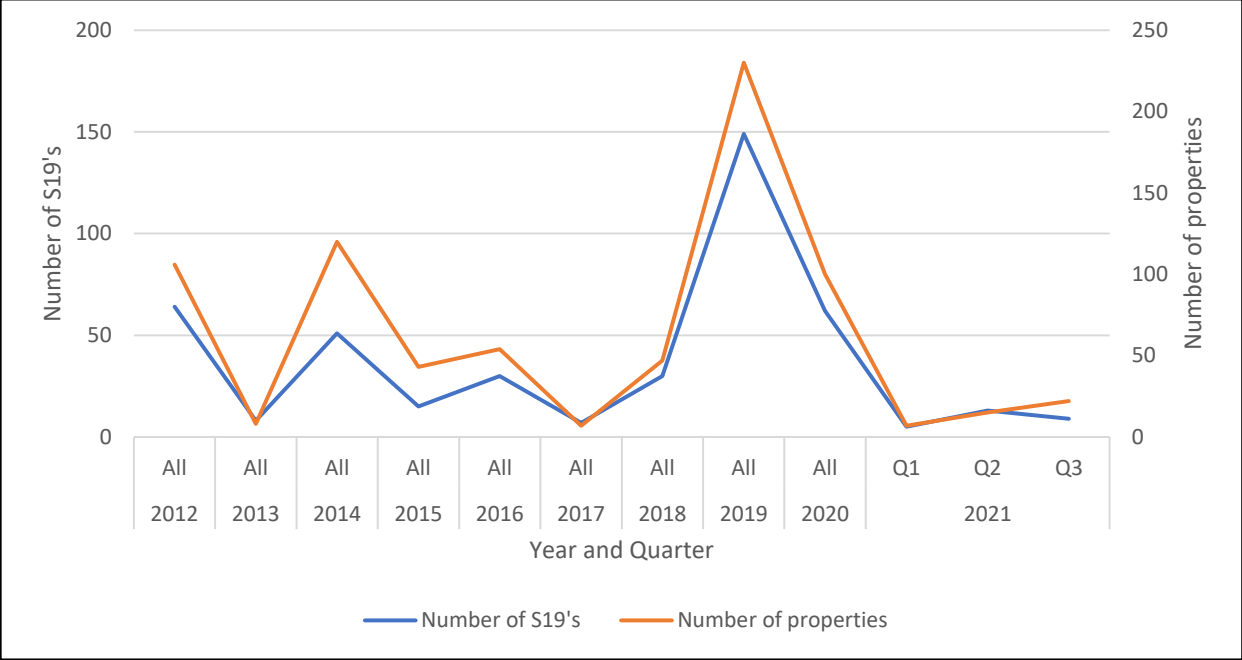


Table 2: Annual totals of Number of S.19 Investigations and properties affected

Recently completed flood risk projects

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

Tallington

Description of work

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

Organisations involved

- Anglian Water (Lead)
- LCC Flood Risk Team
- LCC Highways

Costs

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

Outcomes

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

Millgate, Whaplode

Description of work

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

Organisations involved

South Holland Internal Drainage Board
LCC Flood Risk Team
LCC Highways

Costs

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

Outcomes

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

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



Figure 1: Flooding to Millgate, Whaplode

Louth Road, Binbrook

Description of Work

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

Organisations involved

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

Costs

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

Outcomes

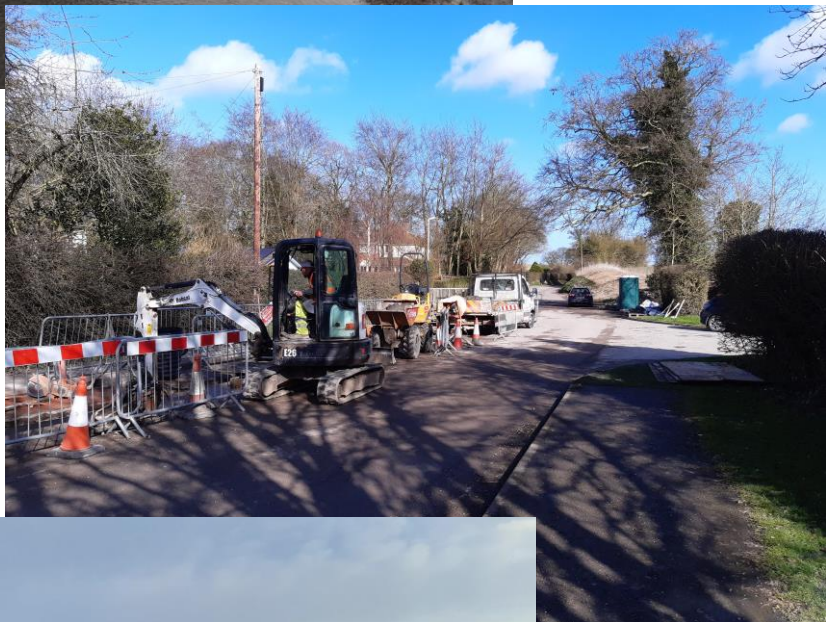
Final assessment still to be made but initial outputs show this scheme will better protect 10 residential properties , 6 commercial properties and Binbrook Retained Fire Station

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



Flooding to
Louth Road,
Binbrook

Scheme construction



Post
construction

Figure 2

2. Conclusion

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

3. Consultation

a) Risks and Impact Analysis

N/A

4. Background Papers

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

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

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