

Local Flood Risk Management Strategy

ACTION PLAN

Risk Management Authorities

- Anglian Water
- Bar Hill Parish Council
- Bedford Group of Internal Drainage Boards
- Cambridge City Council
- Cambridge Water
- Cambridgeshire and Peterborough Local Resilience Forum
- Cambridgeshire County Council
- Developers
- East Cambridgeshire District Council
- Ely Group of Internal Drainage Boards
- Environment Agency
- Fenland District Council
- Huntingdonshire District Council
- Local communities and landowners
- Local Planning Authorities
- Middle Level Commissioners
- National Highways
- Network Rail
- North Level District IDB
- South Cambridgeshire District Council
- St Ives Town Council
- St Neots Town Council
- Water Resources East

Objective 1: Understanding flood risk in Cambridgeshire**1.5A – Investigations into Flood Risk in Huntingdon**

Huntingdon has been identified through both the Preliminary Flood Risk Assessment and the development of the Drainage and Wastewater Management Plan as being a priority location for a better understanding of local flood risk. As described in section 3.3.1, local experience of flooding at these locations has been comparatively low historically. Future risk needs to be reviewed and future interventions prioritised against that risk.

Timescale: 2027	Cost: Officer time plus site investigations/modelling <£50k
Drivers: Flood Risk Management Plan, Drainage and Wastewater Management Plans, Local Flood Risk Management Strategy, National Once Measures	Lead partner: Cambridgeshire County Council Other Bodies: Anglian Water, Huntingdonshire District Council
District: Huntingdonshire	Progress:

1.6A – Updating wet spots and understanding of the impact of changes in climate

As a part of the original Local Flood Risk Management Strategy the county council carried out an assessment to betterment understand areas of greater risk in Cambridgeshire, based on the national surface water flood risk maps. This process, like that carried out as a part of the Preliminary Flood Risk Assessment highlights anticipated risk but does not necessarily incorporate existing knowledge or make allowances for Climate Change. National Flood Risk Assessment 2 (NaFRA 2) is currently underway and due to provide updated maps in future years. In addition to this there is work that has already taken place and actions that are planned to better understand the local risk to ensure future assessments are better informed. The county council will work with partners to consider how best to approach the update of this assessment and whether it is appropriate to carry out an assessment that builds in more local understanding or to wait until the NaFRA2 results are available.

Timescale: 2027	Cost: Officer time plus site investigations/ modelling <£50k
Drivers: Local Flood Risk Management Strategy, National Once Measures, Flood Risk Regulations, Climate Change and Environment Strategy	Lead partner: Cambridgeshire County Council Other Bodies: All
District: All	Progress:

1.7A – Developing solutions to improve catchment understanding

Investigations into flood events can highlight gaps in knowledge in areas such as the functionality and connectivity of surface water assets, a part of the investigations is to improve that understand with partners and as such this was identified as National Once Measure. There is no statutory function for the county council to explore catchment interactions beyond the investigation or gather details that could feed into future business cases for schemes, the resources for this are constrained. As such an action has been included to work with partners to improve catchment understanding and to explore opportunities that allow the county council and its partners to fill knowledge gaps. Previous progress in this area includes successfully obtaining national funding to deliver some localised modelling of flood risk and being a partner in the Anglian Rain Gauge project which will provide an opportunity to better understand how catchments react to differing rainfall events.

Timescale: 2027	Cost: Officer time plus site investigations/ modelling <£50k
Drivers: Local Flood Risk Management Strategy, National Once Measures, Flood Risk Regulations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: All	Progress:

1.8A – Future Fens: Integrated Adaptation partnership working

Cambridgeshire County Council will continue to work with Anglian Water and other partners on the development of the Future Fens: Integrated Adaptation programme and explore opportunities for projects which can provide flood risk improvements and wider benefits for residents and the environment within the Fens. The nature of the strategic approach to the environment, water resources and flood risk management will result in this work affecting all of Cambridgeshire. Projects will be planned and incorporated into future updates of the Local Flood Risk Management Strategy Action Plan.

Timescale: Long term	Cost: Staff time
Drivers: Local Flood Risk Management Strategy, Climate Change and Environment Strategy	Lead partner: Anglian Water Other Bodies: All
District: All	Progress:

1.9A – Future Fens: Flood Risk Management partnership working

Cambridgeshire County Council will continue to work with the Environment Agency and other partners to support engagement on and develop, the vision for the Future Fens: Flood Risk Management within the Fens and Lowlands Strategic Area. The nature of the strategic approach to flood risk management and wider benefits will result in this work affecting all of Cambridgeshire. Projects will be planned and incorporated into future updates of the Local Flood Risk Management Strategy Action Plan.

Timescale: Long term	Cost: Staff time
Drivers: Flood Risk Management Plans, National Strategy Objectives, National Once Measures	Lead partner: Environment Agency Other Bodies: All
District: All	Progress:

1.10A – Drainage and Wastewater Management Plan partnership working

As discussed in this strategy the Drainage and Wastewater Management Plan will help to inform future investment in infrastructure that will support future development and improve the resilience against existing flood risk. These plans have considered the development areas set out in the District and City Councils Local Plans. There is no statutory requirement for Risk Management Authorities to be involved in the development of these Plans but by doing so Risk Management Authorities can provide local knowledge and share ambitions so solutions can potentially provide multiple functions where necessary. Cambridgeshire County Council will contribute to these conversations.

Timescale: 2022	Cost: Staff time
Drivers: Local Flood Risk Management Strategy	Lead partner: Anglian Water Other Bodies: All
District: All	Progress:

1.11A – IDB catchment modelling	
Updated modelling of North Level Internal Drainage Board district catchments	
Timescale: 2027	Cost: Staff time <£50k
Drivers: Partnership scheme	Lead partner: North Level IDB Other Bodies: Anglian Water, Internal Drainage Boards and LLFA partners
District: Fenland	Progress:
1.12A – Completion of Anglian Rain Gauge project	
Installation of rain gauges and supporting software	
Timescale: 2021	Cost: Staff time plus maintenance costs <£50k
Drivers: Local Flood Risk Management Strategy Objectives	Lead partner: Cambridgeshire County Council
District: All	Progress:
1.13A – Integrated model for March	
Following the delivery of a surface water management plan for March in 2014 the council have been working with partners to deliver the actions in that plan, however, significant barriers to delivery have been consistently hindered progress. Project viability means progress as part of the normal capital programme is not feasible. Comprehensive modelling of all flood risk is needed to fully quantify the flood risk in the town, identify innovative solutions, and unlock more funding for the projects.	
Timescale: 2023	Cost: Officer time, site investigations, modelling <£50k
Drivers: Flood Risk Management Plan, Surface water management plans and Section 19 investigations	Lead partner: Anglian Water Other Bodies: Cambridgeshire County Council
District: Fenland	Progress:
1.14A – Ground water investigations/ studies	
Information gathering to improve understanding of ground water across the county.	
Timescale: Long term	Cost: Officer time and surveys <£50k
Drivers: Local Flood Risk Management Strategy Objectives	Lead partner: Cambridgeshire County Council Other Bodies:
District: All	Progress:

1.15A – Anglian Water to investigate capacity issues in Alconbury and consider mitigation measures	
To investigate capacity within public sewers and the impact associated with high water levels in the adjacent brooks	
Timescale: 2022	Cost: Unknown
Drivers: Flood Risk Management Plan	Lead partner: Anglian Water Other Bodies: Cambridgeshire County Council
District: Huntingdonshire	Progress:
1.16A – Brampton: Explore opportunities for flood resilience schemes	
Identification and delivery of flood alleviation schemes following outcomes of the area Flood Investigation Report. These measures would be in addition to any investigative or enforcement activities carried out by the county council following flood events.	
Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Huntingdonshire	Progress:
1.17A – The Offords: Explore opportunities for flood resilience schemes	
Identification and delivery of flood alleviation schemes following outcomes of the area Flood Investigation Report. These measures would be in addition to any investigative or enforcement activities carried out by the county council following flood events.	
Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Huntingdonshire	Progress:
1.18A – Swavesey: Explore opportunities for flood resilience schemes	
Investigative or enforcement activities carried out by the county council following flood events to improve catchment understanding and potentially identify options to improve flood resilience.	
Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: South Cambridgeshire	Progress:

1.19A – Broughton: Explore opportunities for flood resilience schemes

Investigative or enforcement activities carried out by the county council following flood events to improve catchment understanding and potentially identify options to improve flood resilience.

Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Huntingdonshire	Progress:

1.20A – Godmanchester: Explore opportunities for flood resilience schemes

Investigative or enforcement activities carried out by the county council following flood events to improve catchment understanding and potentially identify options to improve flood resilience.

Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Huntingdonshire	Progress:

1.21A – Ramsey: Explore opportunities for flood resilience schemes

Investigative or enforcement activities carried out by the county council following flood events to improve catchment understanding and potentially identify options to improve flood resilience.

Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Huntingdonshire	Progress:

1.22A – Sawtry: Explore opportunities for flood resilience schemes

Investigative or enforcement activities carried out by the county council following flood events to improve catchment understanding and potentially identify options to improve flood resilience.

Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Huntingdonshire	Progress:

1.23A – Buckden: Explore opportunities for flood resilience schemes

Investigative or enforcement activities carried out by the county council following flood events to improve catchment understanding and potentially identify options to improve flood resilience.

Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Huntingdonshire	Progress:

1.24A – Wimblington: Explore opportunities for flood resilience schemes

Investigative or enforcement activities carried out by the county council following flood events to improve catchment understanding and potentially identify options to improve flood resilience.

Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Fenland	Progress:

1.25A – Chatteris: Explore opportunities for flood resilience schemes

Investigative or enforcement activities carried out by the county council following flood events to improve catchment understanding and potentially identify options to improve flood resilience.

Timescale: 2027	Cost: Officer time and Project Contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Fenland	Progress:

Objective 2: Managing the Likelihood of flooding**2.7A – Identifying new opportunities to improve flood resilience**

The Anglian Flood Risk Management Plan identifies a measure for the county council to investigate flooding events and identify new opportunities for improving resilience in the catchment. Investigations by the county council and its partners will help to highlight areas of flood risk where steps could be taken to improve the resilience of that community. This could come from sources such as Section 19 reports or operational findings and any proposed actions will be discussed with partners and possible funding bodies.

Timescale: 2023	Cost: Officer time and investigative costs
Drivers: Local Flood Risk Management Strategy Objectives and Flood Risk Management Plan	Lead partner: Cambridgeshire County Council Other Bodies: All
District: All	Progress:

2.8A – St Neots: Explore opportunities for flood resilience schemes

Following flood events in December 2020, investigations led to a Section 19 report. Flooding was experienced from surface water and main river, initial findings highlight that a range of potential measures may be required both in St Neots and upstream of St Neots. Opportunities associated with existing projects around the town and the potential for partnership working will be explored as a priority.

Timescale: 2027	Cost: Officer time and project contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council and Environment Agency Other Bodies: Anglian Water, National Highways, Network Rail, Developers, Huntingdonshire District Council, St Neots Town Council and Local Communities
District: Huntingdonshire	Progress:

2.9A – St Ives: Explore opportunities for flood resilience schemes

Following flood events in December 2020, investigations led to a Section 19 report. Flooding was experienced from surface water, main river, ordinary watercourses, and sewers. Extensive maintenance work has been carried out following flood events. The Environment Agency have commissioned modelling to assess the impact of blockages on the local river network and an independent report into the potential impacts on commercial and industrial areas has been commissioned locally. Initial findings highlight the need for maintenance, the potential impact of landscape management upstream and the exacerbation of the flooding caused by saturated ground. The need for interventions and potential opportunities is being explored, the county council is working in partnership with other parties to identify potential interventions and ensure that those interventions do not detrimentally impact on other sources of risk.

Timescale: 2027	Cost: Officer time and project contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council and Environment Agency Other Bodies: Anglian Water, Huntingdonshire District Council, St Ives Town Council and Local Communities
District: Huntingdonshire	Progress:

2.10A – Cambridge: Explore opportunities for flood resilience schemes

The county council will continue support Cambridge City Council in the development and delivery of flood resilience measures.

Timescale: 2027	Cost: Officer time and project contributions
Drivers: Flood Risk Management Plan, Section 19 Investigations	Lead partner: Cambridgeshire County Council and Cambridge City Council Other Bodies: Anglian Water and Local Communities
District: Cambridge	Progress:

2.11A – March: Explore opportunities for flood resilience schemes

March has suffered from multiple flood events in recent years, details around the extent of those events and the locations around March experiencing those issues can be found in the March Section 19 reports available online. A range of interventions will be required at multiple locations around March, with some already identified, there has been experience of difficulties in delivery for historic projects in the town and exploring how to overcome these barriers will require innovation in areas such as funding. Funding previously secured is anticipated to be available for future projects if deliverable schemes can be identified. Progress against 1.14A will work to inform this action.

Timescale: 2027	Cost: Officer time and project contributions £500-1m
Drivers: Flood Risk Management Plan, Section 19 Investigations, Surface Water Management Plan, National Strategy Objectives	Lead partner: Cambridgeshire County Council Other Bodies: Anglian Water, Fenland District Council, Middle Level Commissioners and Local Communities
District: Fenland	Progress:

2.12A – Chalk Stream trials on River Granta catchment

The Granta Catchment Programme Catchment Management Plan was drafted in partnership in 2021 and looks to consider a whole catchment approach to the management of this important Chalk Stream. A range of measures have previously been identified on the main river section of the catchment and are being progressed by CamEO. The county council is working with partners, including landowners, to identify and plan delivery of measures upstream to provide improvements to the chalk streams including using nature based solutions to slow flow, clean water and recharge the ground waters.

Timescale: 2027	Cost: Officer time and project delivery £500-1m
Drivers: Flood Risk Management Plan, Climate Change and Environment Strategy	Lead partner: Cambridgeshire County Council, Cambridge Water, land owners group, CamEO, Water Resources East Other Bodies: Local communities
District: South Cambridgeshire	Progress:

2.13A – Bar Hill Flood Alleviation Scheme

Alleviation scheme(s) being developed following recent study

Timescale: 2025	Cost: Officer time and project delivery £100-500k
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: Bar Hill Parish Council
District: Huntingdonshire	Progress:

2.14A – St Neots Tributaries and A428 drainage improvements

Flood alleviation schemes to the east of St Neots

Timescale: 2027	Cost: Officer time and project delivery £100-500k
Drivers: Section 19 Investigations	Lead partner: National Highways, Environment Agency Other Bodies: Cambridgeshire County Council
District: Huntingdonshire	Progress:

2.15A – Public Sector Co-operation Agreements covering Cambridgeshire area

The county council will investigate opportunities for cost savings through partnership working with other authorities, including potential Public Sector Co-operation agreements with partners to co-deliver work at cost

Timescale: 2024	Cost: Officer time
Drivers: Local Flood Risk Management Strategy Objectives	Lead partner: Cambridgeshire County Council Other Bodies: Internal Drainage Boards and Districts
District: All	Progress:

2.16A – Greater integration between Cambridgeshire Lead Local Flood Authority and Local Highways Authority

Cambridgeshire LLFA and LHA to work together to better coordinate roles in enforcement, investigation, and potential scheme delivery

Timescale: 2027	Cost: Officer time
Drivers: Flood Risk Management Plan and Local Flood Risk Management Strategy Objectives	Lead partner: Cambridgeshire County Council Other Bodies:
District: All	Progress:

2.17A – Explore opportunities for NFM in the Cam and its tributaries

Partnership working in the Cam to explore opportunities for further NFM schemes and alternative land management practices to benefit the water environment

Timescale: 2027	Cost: Officer time and project delivery £100-500k
Drivers: Flood Risk Management Plan and Local Flood Risk Management Strategy Objectives	Lead partner: Environment Agency Other Bodies: Cambridgeshire County Council, LCs and Districts and Catchment Partnerships
District: South Cambridgeshire, East Cambridgeshire, and Cambridge	Progress:

2.18A – Birch Fen OWC improvements

Delivery of programmed watercourse improvements by Fenland District Council

Timescale: 2023	Cost: Officer time and project contributions £100-500k
Drivers: Partner Scheme	Lead partner: Fenland District Council Other Bodies:
District: Fenland	Progress:

2.19A – Kelvin Close SW Scheme

Delivery of programmed surface water flood alleviation scheme for Kelvin Close

Timescale: 2025	Cost: Officer time and project contributions £50-100k
Drivers: Partner Scheme	Lead partner: Cambridge City Council Other Bodies:
District: Cambridge	Progress:

2.20A – Brunswick SW Scheme

Delivery of programmed surface water flood alleviation scheme for Brunswick

Timescale: 2025	Cost: Officer time and project contributions £50-100k
Drivers: Partner Scheme	Lead partner: Cambridge City Council Other Bodies:
District: Cambridge	Progress:

2.21A – Catch Water Drains Study

Study of Catch Water Drains in in Ely Group Internal Drainage Boards catchment

Timescale: 2025	Cost: Officer time and project contributions
Drivers: Partner Scheme	Lead partner: Ely Group of Internal Drainage Boards Other Bodies: Environment Agency
District: East Cambridgeshire	Progress:

2.22A – Alconbury: Explore opportunities for flood resilience schemes

Identification and delivery of flood alleviation schemes including measures in the Anglian Flood Risk Management Plan to address the identified Flood Risk Area. These schemes would complement those already identified within the action (Notably 1.15A, 3.9A and 5.8A)

Timescale: 2027	Cost: Officer time and project contributions
Drivers: Section 19 Investigations and Flood Risk Management Plan	Lead partner: Cambridgeshire County Council Other Bodies: All
District: Huntingdonshire	Progress:

2.23A – Linton: Explore opportunities for flood resilience schemes

Identification and delivery of flood alleviation schemes pending outcome of Flood Investigation Report. Cambridgeshire County Council will work closely with partners to ensure that opportunities arising from river improvements in the Granta Catchment (2.12A) provide for benefits to the flood risk in Linton. These measures would be in addition to any investigative or enforcement activities carried out by the county council following flood events.

Timescale: 2027	Cost: Officer time and project contributions
Drivers: Section 19 Investigations	Lead partner: Cambridgeshire County Council Other Bodies: All
District: South Cambridgeshire	Progress:

Objective 3: Helping Cambridgeshire's citizens to manage their own risk**3.4A – Promotion of property flood resilience and associated funding**

Cambridgeshire County Council are a part of the OxCam Property Flood Resilience Pathfinder Project funded by government. The main aim of this project is to increase awareness of property flood resilience measures. Promotional events associated with this project are being delivered in summer 2021, with the project end date anticipated as September 2021. Resources from this project will continue to be used as a part of the Community Flood Action Programme (3.5A) and in turn as an ongoing resource to community risk and solutions to the public (3.3M).

Timescale: 2027	Cost: Officer time, supporting and educational resources <£50k
Drivers: Local Flood Risk Management Strategy objectives, Climate Change and Environment Strategy and National Once Measures, Flood Risk Management Plan	Lead partner: Cambridgeshire County Council Other Bodies: All
District: All	Progress:

3.5A – Community Flood Action Programme

In 2021-22 the Community Flood Action Programme started with the aims to;

- Develop guidance on riparian watercourse management
- Establish a flood group network
- Deliver flood risk management training for communities
- Develop a new one-stop shop flood risk information website
- Improve the flood reporting system
- Improve the mapping of watercourses across the County

The Flood Risk Management Plan sets a measure to engagement specifically with communities at risk in March, the county council will look to work more widely with priority communities across the whole of Cambridgeshire. This work will consider the individual needs of the different communities affected by risk and look at how to overcome their challenges.

Timescale: 2022	Cost: Officer time, supporting and educational resources £500-1m
Drivers: Local Flood Risk Management Strategy objectives, Climate Change and Environment Strategy and National Once Measures	Lead partner: Cambridgeshire County Council Other Bodies: Fenland District Council, Huntingdonshire District Council, East Cambridgeshire District Council, South Cambridgeshire District Council
District: All	Progress:

3.6A – Riparian responsibilities engagement

Since the last iteration of this strategy the county council has developed riparian guidance and shared this widely among other Lead Local Flood Authorities and partners of the Cambridgeshire and Peterborough Flood and Water Partnership. More recent flood events have highlighted the risk associated with a lack of maintenance on drainage and flood risk assets, notably including the lack of riparian maintenance. Ensuring that watercourses are maintained to prevent flooding is crucial. Section 5 discusses riparian rights and responsibilities. The county council, the Environment Agency and Internal Drainage Boards have permissive powers under the Land Drainage Act 1991 that they can use, funding permitting, for certain essential works and to enforce prohibitions on obstructions being placed in watercourses. Legislation related to fly tipping may also be used where this is appropriate. Any obstructions to the flow of watercourses could increase local flood risk. The Flood Risk Management Plan sets a measure for engagement specifically on riparian responsibilities in March. The county council will look to work more widely with priority locations across the whole of Cambridgeshire. This work will initially form a part of the Community Flood Action Programme and then continue thereafter. Additionally, there are other water management schemes that landowners may have already engaged with, which bring a wide range of other benefits to Cambridgeshire. Farm stewardship schemes encouraged by Natural England and Nene Park Trust seek to reduce soil erosion into nearby water bodies and therefore improve water quality. Anglian Water is also increasing the scale of its catchment advisory scheme which aims to help reduce the impacts of chemical fertilisers and pesticides in our water supply. It is important that any new schemes relating to riparian responsibilities are complimentary and do not create unnecessary burden for agricultural landowners or detract from these existing beneficial schemes.

Timescale: 2027	Cost: Officer time <£50k
Drivers: Local Flood Risk Management Strategy objectives, Flood Risk Management Plan and National Once Measures	Lead partner: Cambridgeshire County Council Other Bodies: All
District: All	Progress:

3.7A – Awareness raising campaign in Oakington, notably for riparian responsibilities

Environment Agency to work in partnership with others to raise awareness of risks and responsibilities in the catchment, alongside delivery of other measures in the Anglian Flood Risk Management Plan to address the identified Flood Risk Area in Oakington.

Timescale: 2025	Cost: Officer time and modelling or investigation costs <£50k
Drivers: Local Flood Risk Management Strategy objectives, Climate Change and Environment Strategy and National Once Measures	Lead partner: Environment Agency Other Bodies: Cambridgeshire County Council
District: South Cambridgeshire	Progress:

3.8A – Engagement plan for Alconbury developed in partnership

The Environment Agency will work with the Parish Council and County Council to develop an engagement plan in Alconbury to promote partnership working and raise awareness of risk

Timescale: 2023

Cost: Officer time

Drivers: Local Flood Risk Management Strategy objectives, Climate Change and Environment Strategy and National Once Measures

Lead partner: Environment Agency
Other Bodies: Cambridgeshire County Council and Local Communities

District: Huntingdonshire

Progress:

Objective 4: Ensuring appropriate development in Cambridgeshire

4.4A – Build the evidence base for local flood risk to inform future development and investment decisions

As a part of the county council's role to better understand local flood risk and act as statutory consultee in major planning applications it is crucial that the LLFA have the best information available to assess the risk and to help inform future reviews of planning guidance or development proposals. The county council will continue to gather information from flooding reports to help inform future decisions and look to explore new opportunities to build the evidence base.

Timescale: 2027	Cost: Officer time and modelling or investigation costs <£50k
Drivers: Local Flood Risk Management Strategy objectives, Climate Change and Environment Strategy and National Once Measures	Lead partner: Cambridgeshire County Council Other Bodies: Local Planning Authorities
District: All	Progress:

4.5A – Update Cambridgeshire Flood and Water Supplementary Planning Document (SPD)

This SPD is a formally adopted part of Cambridgeshire's suite of planning policy documents. One of the principal actions set out in the Local Flood Risk Management Strategy is to ensure that the SPD is used, understood, and followed by planners working on new development. The SPD provides planning guidance on:

- How to assess whether or not a site is suitable for development based on flood risk grounds.
- The use of different sustainable drainage measures within Cambridgeshire.
- The protection of aquatic environments and how development can contribute positively to the Water Framework Directive.

An update of the SPD would allow consideration of the evolution to local and national policies and consideration of the need for new development to be ready to adapt to changing risks.

Timescale: 2023	Cost: Officer time
Drivers: Local Flood Risk Management Strategy objectives, Climate Change and Environment Strategy	Lead partner: Cambridgeshire County Council Other Bodies: Local Planning Authorities
District: All	Progress:

4.6A – Surface Water Management Guidance document for Planning

This guidance document was updated in June 2021 and all changes to industry guidance has been considered as a part of that update. The county council will monitor further progress on National guidance and best practice and review this guidance as required.

Timescale: 2027	Cost: Officer time
Drivers: Local Flood Risk Management Strategy objectives	Lead partner: Cambridgeshire County Council Other Bodies: Local Planning Authorities
District: All	Progress:

4.7A – Seek opportunities to work with those delivering development and infrastructure projects to improve existing flood risk

The Partnership Funding process described in section 7 will not fund flood risk management works to ‘new’ development. This is defined as any development built since 1st January 2009. This is because the appropriateness, design, and safety of all new developments with regards to all sources of flood risk should have been fully considered as part of the planning process. If funding is required for schemes that relate to new development or redevelopment it will be sought through developer contributions from organisations with an interest in the land or improved infrastructure. The potential for funding from CIL, POIS and S106 is explained further on each website of the Local Planning Authorities. In future environmental net gain introduced by the Environment Bill will require new development to provide environmental betterment, it is anticipated that this could include local flood risk and the wider water environment. The county will work with its partners to share ambitions and prepare for such opportunities.

Timescale: 2027	Cost: Officer time and project contributions
Drivers: Climate Change and Environment Strategy, Local Flood Risk Management Strategy objectives, Doubling Nature and 25 Year Environment Strategy	Lead partner: All Other Bodies: Local communities
District: All	Progress:

4.8A – Work with OxCam group to influence regional development guidance

The OxCam Growth Arc described earlier in this Strategy will have significant impacts on the environment in the region, with a potential to increase flood risk, increase pollution and demand for water among other concerns. In response to these challenges several initiatives have started to prepare for the planned new development, examples of this include the OxCam Local Natural Capital Plan, a strategic review of flood risk known as the OxCam Storage and Conveyance Project and a government commitment to develop a Spatial Framework to cover the Arc. The county council already work closely with the Lead Local Flood Authorities in other parts of the Arc on a regular basis and will build on this relationship in preparation of engaging with this work. The county council and Local Planning Authorities have guidance and assessments in place to help guide development. This work is expected to provide opportunities to further explore the catchment wide impact of development and influence the development in the wider area which will impact on the level of risk in the county.

Timescale: 2027	Cost: Officer time
Drivers: Climate Change and Environment Strategy, Local Flood Risk Management Strategy objectives, National Once Measure	Lead partner: All Other Bodies: N/A
District: All	Progress:

4.9A – Alignment of ambitions to inform Net Gain opportunities

Anticipated legislative changes are expected to provide opportunities to improve the existing state of the environment within Cambridgeshire. To be fully prepared for such opportunities and improve the potential for partnership working, Risk Management Authorities across Cambridgeshire should share their ambitions and identify opportunities for delivery and efficiencies.

Timescale: Long term	Cost: Officer time
Drivers: Climate Change and Environment Strategy	Lead partner: Cambridgeshire County Council, Fenland District Council, Huntingdonshire District Council, East Cambridgeshire District Council, South Cambridgeshire District Council Other Bodies: All
District: All	Progress:

4.10A – SuDS in Schools support

As a part of development requirements there will be a continued increase in Sustainable Drainage Systems within schools, the LLFA will work to support the development of those schemes as a part of their planning consultation process.

Timescale: Long term	Cost: Officer time
Drivers: Climate Change and Environment Strategy	Lead partner: Cambridgeshire County Council Other Bodies: N/A
District: All	Progress:

Objective 5: Improving flood prediction, warning, and post flood recovery

5.3A – Review of processes associated with Highway flood related closure

Cambridgeshire has several roads which are managed by the Cambridgeshire Highways Authority that are prone to closures periodically because of flooding. This includes the A1123 east of Earith and B1040 north of Whittlesey. These closures can have a considerable diversion route and as such have an impact of the isolation of rural communities, a potential carbon impact as well as financial implications for local businesses and residents. The process for the closure of these roads is reviewed periodically by the Local Highway Authority and technological changes will be monitored to see if economic solutions can be identified to improve the local service.

Timescale: 2025	Cost: Officer time and potential infrastructure
Drivers: Flood Risk Management Plan, Local Flood Risk Management Strategy Objectives	Lead partner: Cambridgeshire County Council Other Bodies: N/A
District: All	Progress:

5.4A – Review of emergency response plans

As described in 5.1M, emergency response plans are developed by members of the Cambridgeshire and Peterborough Local Resilience Forum to set out processes for responding to significant events. This includes Plans for responding to severe weather and flooding events. The plan relating to flooding is awaiting a government review before it can be updated, government response is anticipated in the autumn of 2021. Updates will then be incorporated into that plan with an intention to test that plan as a part of a regional event in 2022. As a part of the review of the plans, consideration will be made with regards to how vulnerable individuals are identified in an emergency and how it is possible to ensure that they can be supported during an incident. In addition to these emergency response plans there are also business continuity plans and as outlined in the Climate Change and Environment Strategy, the county council intend to ensure that flooding and other climate relating risks are covered within the business continuity plans.

Timescale: 2023	Cost: Officer time and event costs
Drivers: Climate Change and Environment Strategy, Local Flood Risk Management Strategy Objectives, National Once Measure	Lead partner: Cambridgeshire And Peterborough Local Resilience Forum Other Bodies: Cambridgeshire County Council
District: All	Progress:

5.5A – Explore the use of telemetry in operation and emergency management

As technology develops opportunities exist to better use data, either live or after events, to improve responses to floods, provide warnings, find efficiencies in maintenance delivery, or provide a greater evidence base to validate projects. As opportunities to trial new technologies are available the council will work with partners to explore how services can be improved for residents.

Timescale: 2027	Cost: Officer time and infrastructure costs <£50k
Drivers: Climate Change and Environment Strategy, Local Flood Risk Management Strategy Objectives	Lead partner: Cambridgeshire County Council Other Bodies: All
District: All	Progress:

5.6A – Flood Risk built into Business contingency plans in council

Recent changes to council assets will require a review of contingency plans held by the county, the Climate Change and Environment Strategy detailed a need to consider climate change threats within those plans. Flood Risk, as one of the identified risks needs to be fully considered in the impact on the delivery of services.

Timescale: 2023	Cost: Officer time
Drivers: Climate Change and Environment Strategy, Local Flood Risk Management Strategy Objectives	Lead partner: Cambridgeshire County Council Other Bodies: All
District: All	Progress:

5.7A – CAMBRIDGESHIRE AND PETERBOROUGH LOCAL RESILIENCE FORUM to be involved in national event to test response plans

The Cambridgeshire and Peterborough Local Resilience Forum maintain plans which are activated during an emergency to inform emergency responders of the processes to follow during an emergency, these plans are regularly reviewed and tested. Future plans include a National test of emergency plans which the Cambridgeshire And Peterborough Local Resilience Forum will be involved in.

Timescale: 2023	Cost: Officer time, venue, and possible resource support <£50k
Drivers: Civil Contingencies Act, Local Flood Risk Management Strategy Objectives	Lead partner: Cambridgeshire County Council Other Bodies: All
District: All	Progress:

5.8A – Explore flood warning in Alconbury

As a part of delivery of other Flood Risk Management Plan measures, the Environment Agency will work with the county to investigate the potential for early warning systems in the Alconbury catchment

Timescale: 2025	Cost: Officer time and potential infrastructure <£50k
Drivers: Flood Risk Management Plan	Lead partner: Environment Agency Other Bodies: Cambridgeshire County Council
District: Huntingdonshire	Progress: