

Kingsley Report Details

Project:	Storm Christoph Section 19 Main Report		
Area:	Kingsley		
Date:	10/08/22	Project No.:	5150735

Document history

Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
1.0	Draft for RMA Comment	SF	TS	EJG	EJG	10/08/22
2.0	Draft for Final Approval	SF	TS	EJG	EJG	01/09/22

Client signoff

Client	Cheshire West and Chester Council
Project	Storm Christoph Section 19 Main Report
Project No.	5150735
Client signature / date	

Kingsley Main Report Details

This Kingsley specific Main Report should be read in conjunction with the Section 19 Flood Investigation – Main Report (January 2021 Storm Christoph Flooding Event).

1. Background

Kingsley is a small civil parish located in West Cheshire and is located four miles south east of Frodsham. A small watercourse flows north eastwards through the village parallel to the B5152, Mill Lane. This watercourse is largely culverted between Dark Lane and Well Lane as it flows northwards through the village. At Mill Lane it turns eastwards and flows towards a perched mill pond, although the watercourse does not enter the mill pond there are various control structures that suggests that at one point it may have done.

Immediately downstream of the mill pond the watercourse splits into two, however, it is not possible to confirm the exact routes of these, suffice to say it is understood that these flow eastward and are tributaries of Crowton Brook.

What can be confirmed is that there are two separate watercourses, both culverted in part, that flow eastward on either side of Mill Lane. It is likely that these are the aforementioned watercourses but connectivity has not been established either from investigation or available information.

2. Flood Review

It is understood that flooding occurred in Kingsley due to a combination of factors including insufficient capacity of the culvert through the village, capacity limits in the culvert beneath Mill Lane and a general poor state of maintenance of open drainage ditches which restricts conveyance.

Flooding occurred within the village 20 years ago, reportedly because of an insufficient capacity of the culvert. The village of Kingsley mostly has a low risk of flooding from Surface Water, with some areas of higher risk around Mill Lane. The area of Mill Lane is within the Environment Agency (EA) Flood Zone 2. Refer to Appendix I for these plans.

A single property in Kingsley experienced internal flooding which led to its evacuation. This property was affected by water backing up from the culvert beneath their driveway and spilling out to surround their property. In addition, although this didn't flow into the property due to high kerb stones, water flowed down Mill Lane.

Residents have reported that:

- The nature of the adhoc development of the village has resulted in an inefficient surface and foul water drainage system
- Increased development over the years has increased hardstanding, and by association increased rates of run off, to the already stretched drainage network
- Riparian owners of drainage ditches do not undertake routine work to make sure they are clear of vegetation and in good order

2.1. Area Summary

Figure 1 shows details of the flooding, developed in consultation with Cheshire West and Chester Council (CWaC), as Lead Local Flood Authority (LLFA), and affected property owners.



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Figure 1 - Flood Overview at Kingsley

Key statistics of the Storm Christoph Flooding in Kingsley are summarised in Table 1.

Table 1 - Flood Impact Summary

Residential properties affected:	Commercial premises affected:	Number of properties evacuated:	Number of properties flooded:	Number of domestic properties flooded:	Number of commercial premises flooded:	Comment
1	0	0	1	1	0	n/a

Table 2 provides a brief summary of the flood event, impact and response in Kingsley.

Table 2 – Kingsley

Kingsley	
Date	<ul style="list-style-type: none"> 21st January 2021
Affected Roads	<ul style="list-style-type: none"> Mill Lane
Flood Alert / warning issued?	<ul style="list-style-type: none"> n/a
Flooding Impacts and Observations	<ul style="list-style-type: none"> Property damage Additional stress and mental anguish on the community over such an event happening again
Summary of Flooding Incident Response During Event	<ul style="list-style-type: none"> Property owners acted to protect their own properties

3. RMA Response

This section outlines the RMA response to the flood event at Kingsley and identifies area for improvement of flood risk. Consultations have been undertaken with the participating RMAs, local residents and business owners to inform this assessment.

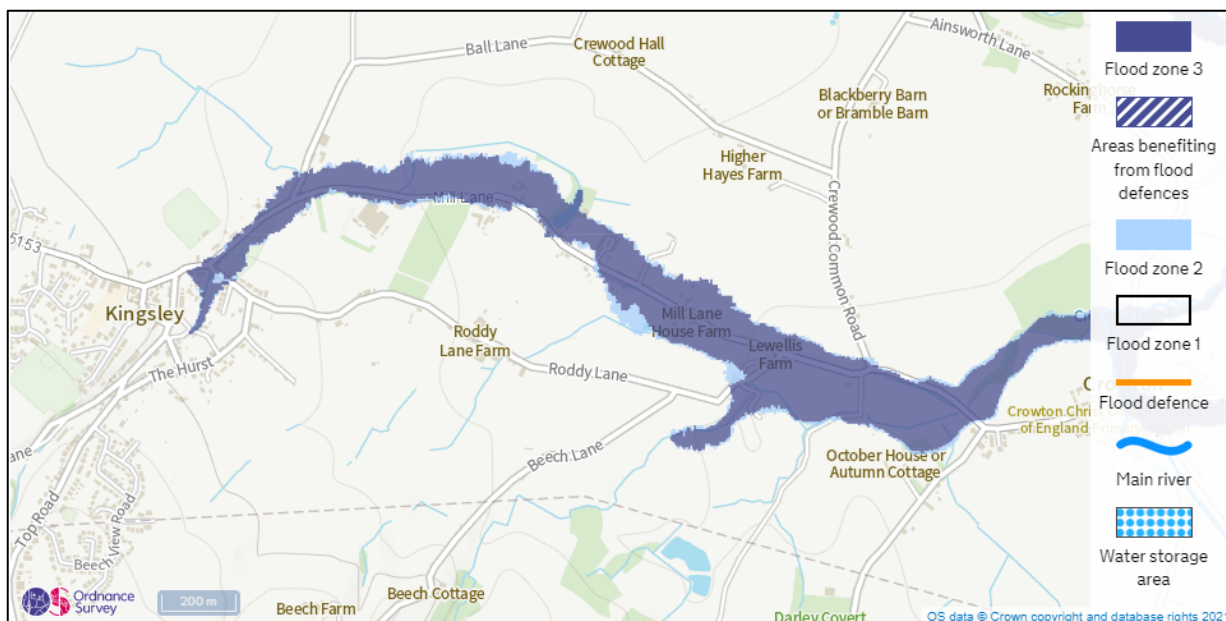
- CWaC, as LLFA, have held discussions with affected property owners outlining the steps they can take to reduce the risk of flooding and property level protection measures.
- CWaC is moving towards a risk-based approach to gully maintenance; increasing the frequency of cleansing to those gullies identified in areas at risk of flooding.
- CWaC have confirmed that an inspection was undertaken in 2015 which found the culvert to be in fair condition however, further inspection of the east end of the system is still required.
- CWaC, as LLFA, has undertaken discussions with individual property owners to advise them to undertake individual property protection measures.
- CWaC, as LLFA, has advised the affected property owners to sign up to the EAs Flood Alert Service.
- The FloodHub has been promoted at several engagement events and during site visits with affected residents. A link is also included from the Flood pages of the CWaC website.

4. Recommended Actions

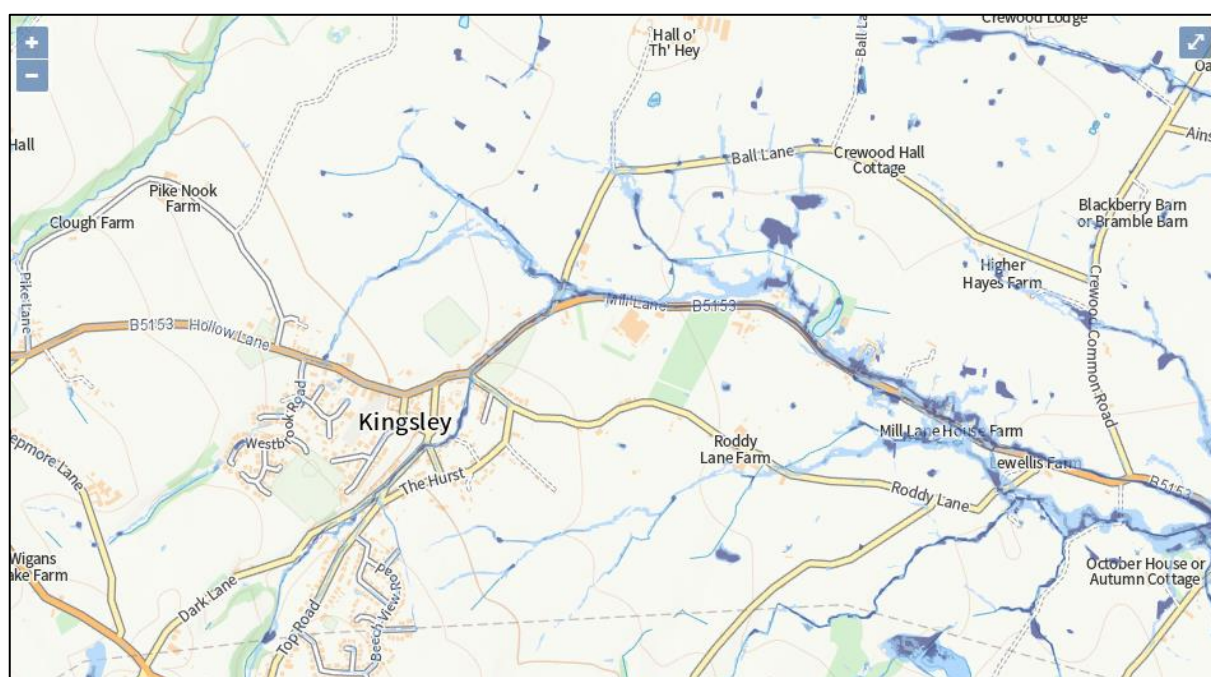
The following actions are recommended:

- Confirm connectivity of the two drainage ditches running along Mill Lane.
- Include the area as being at risk of flooding in the risk-based gully maintenance system.

Appendix I - Maps



Source: EA



Extent of flooding from surface water

● High ● Medium ● Low ○ Very low

Source: EA

Appendix II – Timeline

Time	Kingsley
21 st Jan	No information available