

# Flood Recovery Update

## Overview and Scrutiny Briefing

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Monday 11 November 2019

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Highways



# Flooding Update – 31 July and 26<sup>th</sup> October 2019

Presentation will provide an overview of:

- § Recovery works summary
- § Construction summary
- § Major works summary
  - § Wards End Retaining Wall
  - § Ingersley Road
- § Other works summary
- § Formal Flood Investigation update

# Recovery Works - Summary

- 6,672 gullies emptied to date in:
  - Poynton, Adlington, Bollington, Kettleshulme
- Remaining 1024 gullies identified in the recovery schedule will be completed by the end of November in the following areas:
  - Rainow
  - Pott Shrigley
  - Lyme Handley
  - Wilmslow
  - Mottram St Andrew
  - Prestbury
  - Handforth
- Work is ongoing to address 410 issues arising following gully emptying including:
  - High pressure water jetting
  - Replacing broken gully gratings,
  - CCTV camera work,
  - Minor drainage repairs
- 217 tasks completed to date and 193 remaining



# Recovery Works - Summary

- § Drainage Investigations – CCTV Camera Work
  - § London Road North & South, Poynton
  - § Anglesey Drive, Poynton
  - § Macclesfield Road, Holmes Chapel
  - § London Road North Service Road, Poynton
  - § Old Buxton Road, Macclesfield
  - § Well Lane, Hurdsfield
- § Pumping Stations
  - § A34 Melrose Way Neither Alderley and A555 Handforth Bypass – have had:
    - § Utilities survey
    - § Environmental survey
    - § Pump assessments
    - § Proposed enhancement work – awaiting approval following completion of pump assessments

# Recovery Works - Construction Summary

- § Works completed:
  - § Priest Lane – drainage and carriageway repairs
  - § Waterside Road, Disley – carriageway repairs
  - § Crooked Yard Road, Macc Forest – carriageway repairs
  - § Well Lane, Hurdsfield investigation – carriageway repairs and drainage
  - § Lnagley Road, Sutton – footway repairs
  - § Chelford Road, Macclesfield – footway repairs
  - § Buckingham Road, Wilmslow – footway repairs



# Major Works – Wards End Retaining Wall



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## Major Works – Wards End Retaining Wall

- § Scope of scheme currently under review
- § Meeting with United Utilities requires them to temporarily divert the water main where the wall has collapsed. Main carries around 5000l/s (high risk). Anticipate 2 weeks for UU to complete works by which time repairs to the highway can be commenced.
- § Environmental survey and risk review completed. All statutory undertaker site meetings complete.
- § Area of collapse cleared and stones recovered from both the river and the local land to be used in reconstruction.
- § Trees removed from the top of the embankment to facilitate safe access for plant, labour and materials.
- § Areas of land collapse made safe, area surveyed with ground penetrating radar to establish locations of any underground voids.
- § Street lights repaired to illuminate new footpath.
- § Anticipate completion by end 2019



# Major Works – Ingersley Road



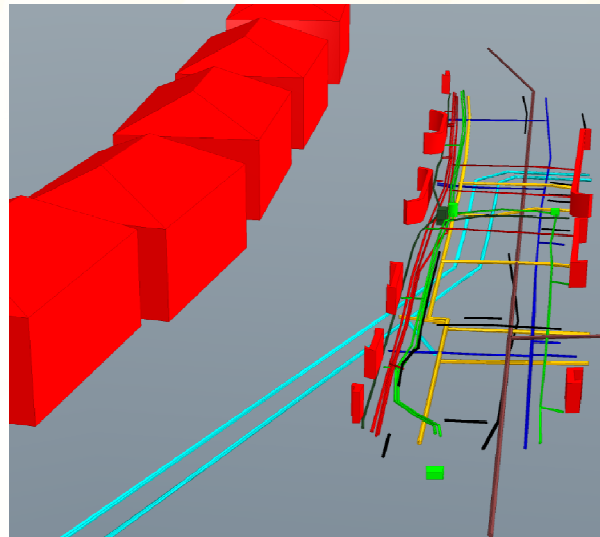
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# Major Works – Ingersley Road

- § Scheme 1 week into re-construction from 10 week delivery.
- § Design agreed for temporary sheet piling to support area whilst culvert is replaced.
- § 3D model of services undertaken to assist with sheet piling and services location.
- § Pre-cast concrete pipes to replace culvert arrived and in storage.
- § Full ground penetrating radar survey carried out to establish locations of all subsurface voids.

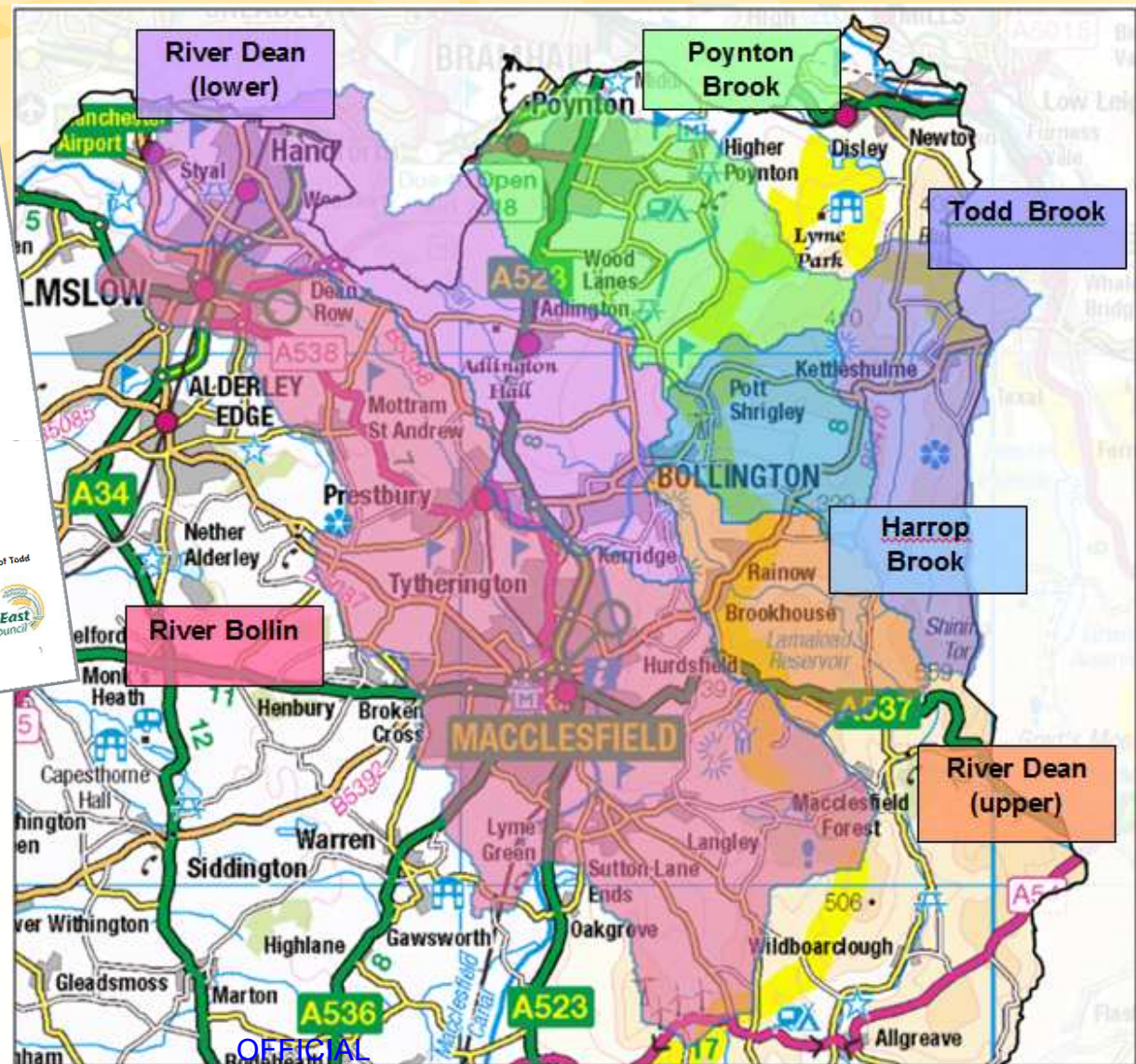
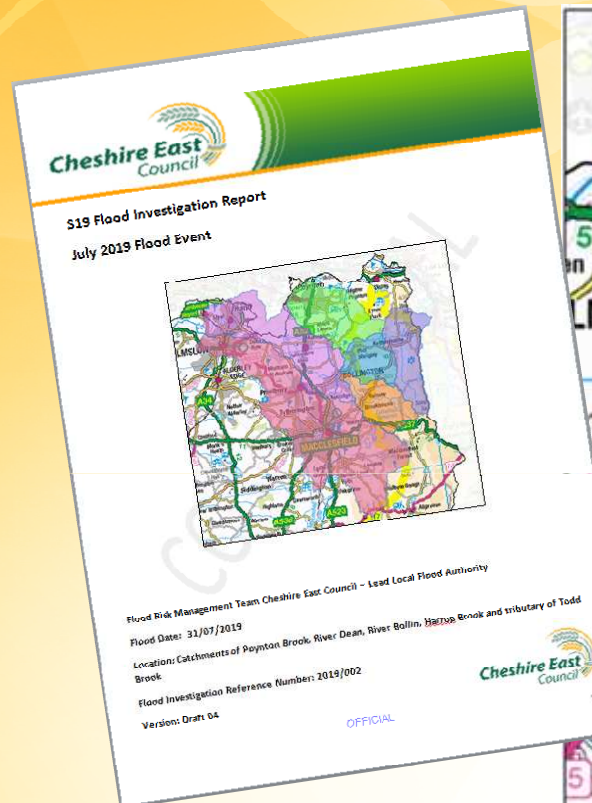


## Recovery Works – Other works

- § Higher Lane embankment failure - scheme currently under initial design scope. Estimate commencement of works December 2019
- § Bolshaws embankment failure - scheme currently under initial design scope. Estimate commencement of works January 2019
- § Townfield Lane embankment failure - scheme currently under initial design scope. Estimate commencement of works January 2019

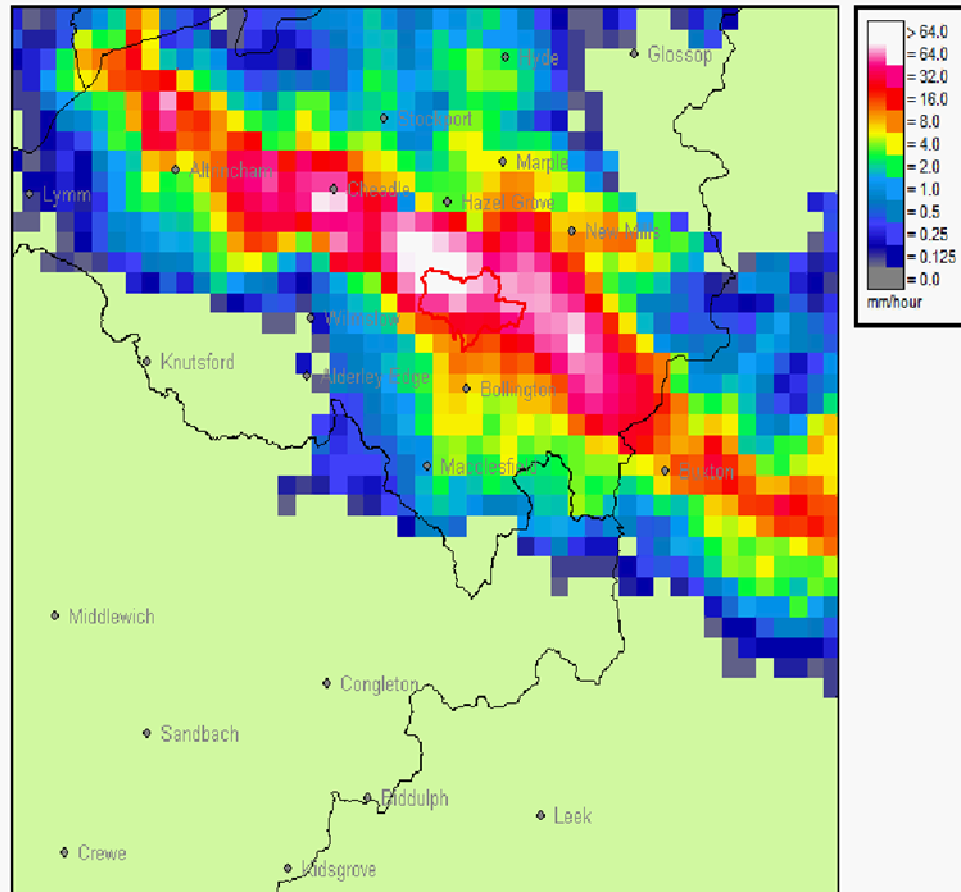


# Formal Flood Investigation 31<sup>st</sup> July 2019



# Data Collection

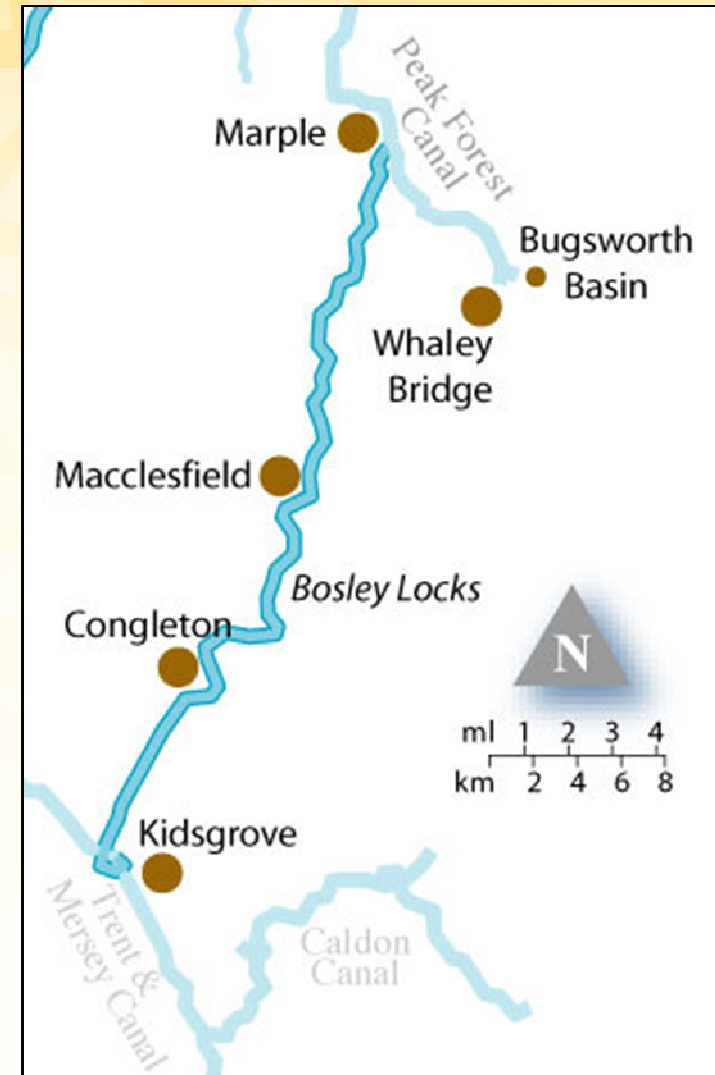
Observation - rain-rate (H17)



14:45 GMT Wed 31-Jul-2019

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# Collaboration


Date	Meeting
6 <sup>th</sup> September	United Utilities
18 <sup>th</sup> September	Multi-Agency (SBC/EA/UU/CEH/LLFA)
1 <sup>st</sup> October	Bollington Parish (Community Resilience)
3 <sup>rd</sup> October	Local plan allocation review
9 <sup>th</sup> October	Canal and River Trust
17 <sup>th</sup> October	Poynton Parish (Community Resilience)
25 <sup>th</sup> October	Kettleshulme Parish (Community Resilience)
7 <sup>th</sup> November	Poynton Working Group
15 <sup>th</sup> November	Formal debrief – Multi Agency, incl. town/parish Councils

# Responses, Lessons Learnt & Recommendations


- § Engaged with over 500 residents
- § Three community events
- § Investigating over 350 separate flood reports
- § Site investigations, watercourses/culverts
- § Resident meetings
- § Natural Flood Management
- § “Slow the Flow”
- § Development of site specific and generic recommendations for all risk management authorities and communities



# Development of new Flood Webpage




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## Risk of flooding



- Keep an emergency grab bag with items such as a radio with spare batteries or a wind up radio. A battery torch with spare batteries or a wind up torch. First aid kit and medication, bottled water and emergency food enough for three days. Copies of important family documents in a waterproof bag, such as passports, birth and insurance certificates
- Protect doorways and low level air vents with sandbags or rubbish bags filled with earth
- Turn off gas and electricity
- Move as much as you can, including food, upstairs
- If you are trapped by flooding, remain near a window to attract attention
- Call Floodline on 0845 988 1188 for warnings and information
- Check on your neighbours, particularly those who are elderly or infirm

Please visit the [Environment Agency website](#) for up-to-date information.

In the event of flooding, there may be risks of ill health due to water-borne infection.

The [Health Protection Agency](#) have issued advice on what measures should be taken to reduce these risks.

The Environment Agency have produced 3 guides giving practical advice on preparing before a flood, also what to do during and after a flood.

- [Advice for before a flood \(PDF, 385KB\)](#)
- [Advice for during a flood \(PDF, 317KB\)](#)
- [Advice for after a flood \(PDF, 239KB\)](#)

## Cheshire East Flood Mitigation Policy

- [Cheshire East Flood Mitigation Policy \(PDF, 26KB\)](#)


In this section


[Risk of Flooding](#)


[Reservoir flooding](#) >

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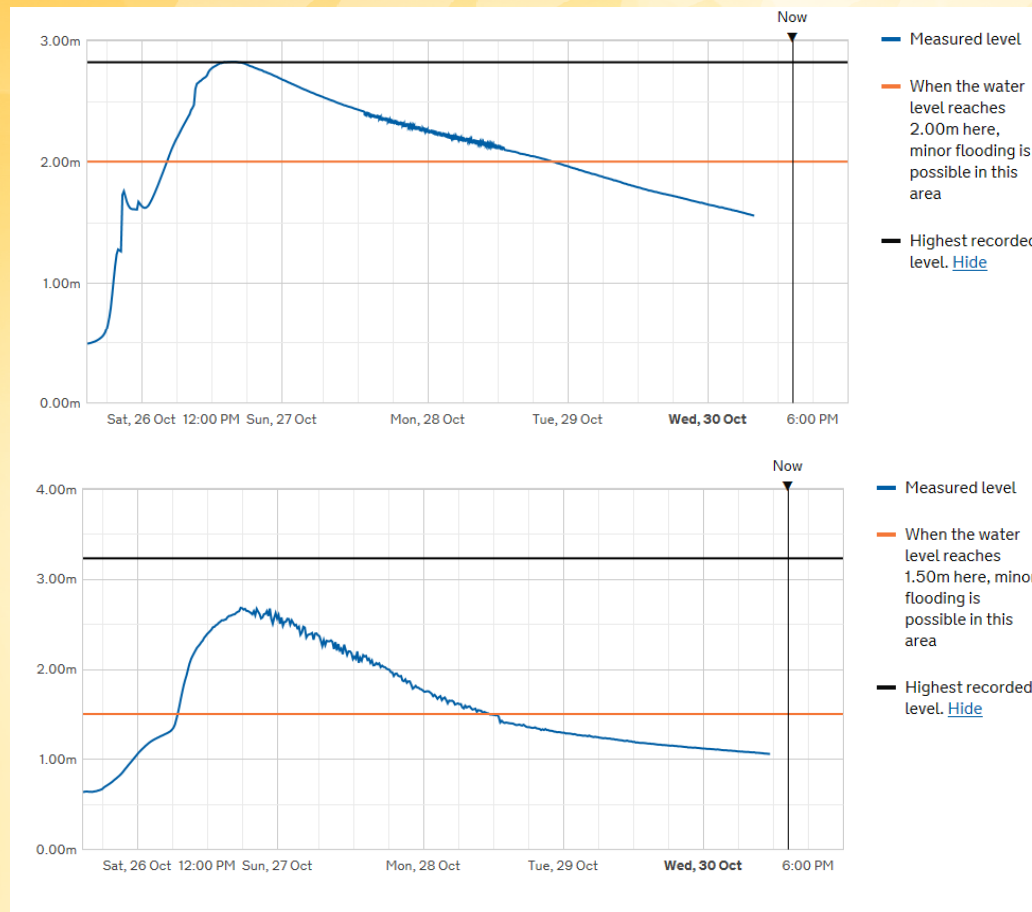
# Further Flooding Event – October 2019

- § Weather event in October
- § Significant rainfall – Friday 25 & Saturday 26 October
- § Borough wide flooding over that period and onwards
- § Main river fluvial and localised flooding
- § Impacted Borough wide and specially badly in:
  - § Nantwich
  - § Wybunbury
  - § Mobberley
  - § Wilmslow
  - § Crewe
  - § Alsager
  - § Prestbury
  - § Chelford
- § 130 highways calls/incidents
- § Adverse weather desk – 2 days, involving over 30 staff



# Further Flooding Event – October 2019

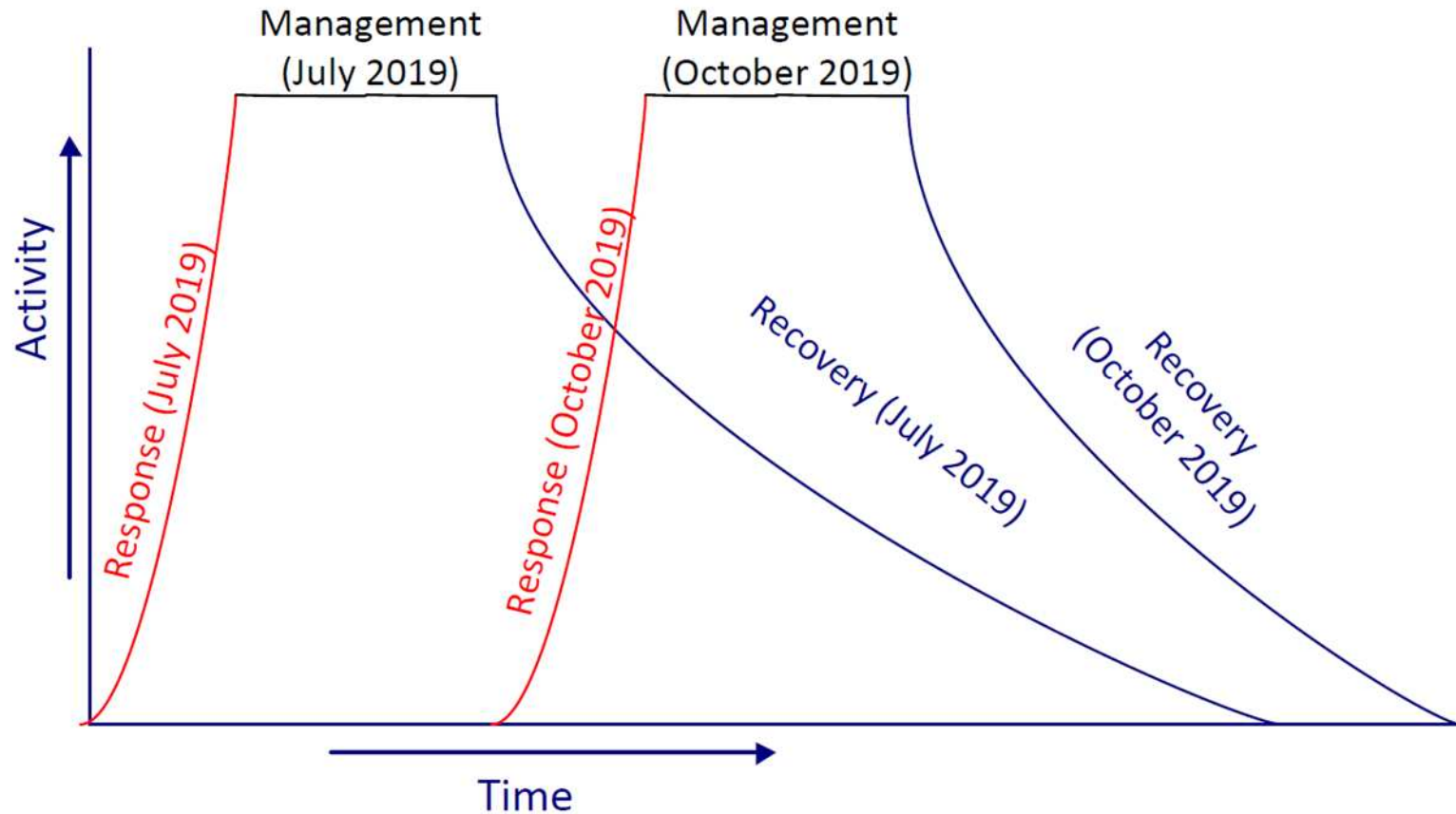
§ Approx. 100mm rain in 24 hrs in Nantwich, 70mm in 24hrs Northwich



River Weaver level matched highest recorded at Audlem

River Weaver level reached 2.67m at Nantwich

# Flood Activities – July and October 2019



# Further Flooding Event – October 2019

## Clear up operations

The extent of the clear up operations is currently being determined. This operation will include:

- § Sweeping, gully emptying, jetting and visible presence of operatives in the community
- § Assess the number of gullies across the affected areas, a significant percentage will require emptying and outlets checking for condition
- § Siding out and sweeping essential to clear channels, and remove any standing debris and detritus
- § Drainage activities such as cutting of grips, clearance of trash screens, catch pits etc.





# Next Steps

- § Identify and assess the extent of the additional works
- § Inspections required on c.66 structures impacted by flooding
- § Programme works subject to provision of approved funding
- § Continue to engage with residents, councillors and multi agency partners
- § Complete further S19 report (3rd S19 report in 2019)
- § Review formal flood investigations with multi-agency partners
- § Internal approval of formal flood investigation
- § Publish formal flood investigation online
- § Address recommendations
- § Review opportunities for externally funded flood defence schemes