



Midlands Highway Alliance Plus

Digital and Environment

Wednesday 17 September 2025

Annual
Event
2025

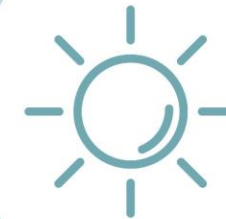


Climate Change, Adaptation & Building Resilience

Worcestershire County Council

Chris Riley
Highway Operations Manager

Annual
Event
2025



Adverse Weather – emerging trends

Heat and extreme temperatures

Met office weather warnings

High winds

And


Ice, snow and extreme cold

Named storms

Rain and flooding

River Sever

Bewdley
Worcester
Upton Upon Severn

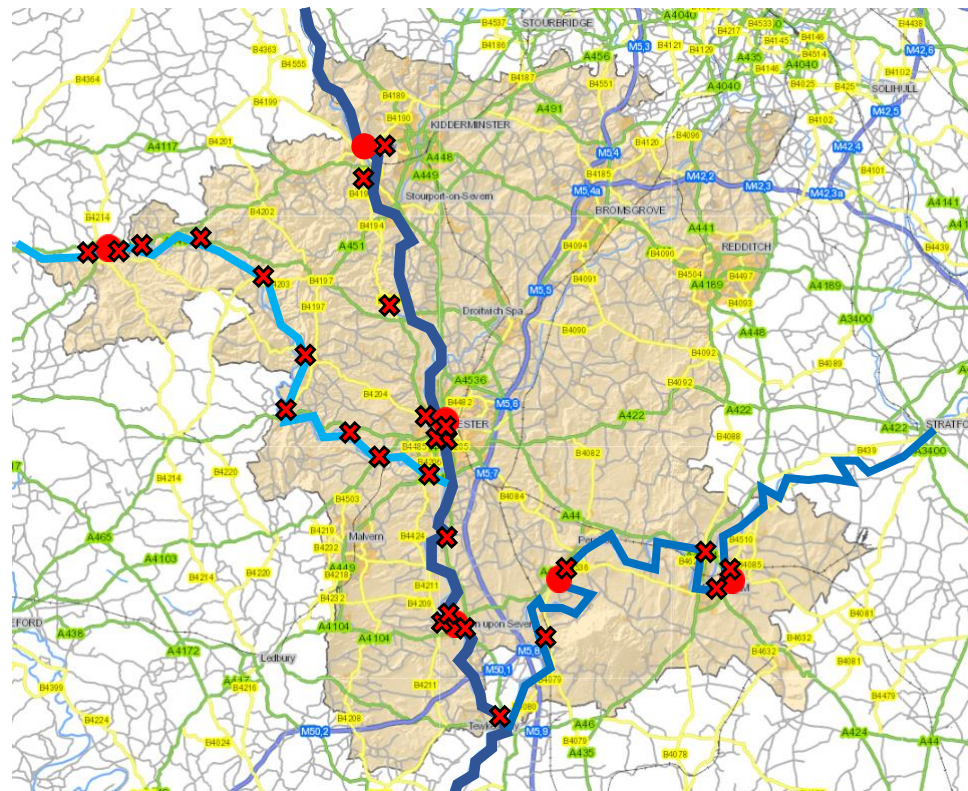
Key highway
network impacts 

River Avon

Evesham
Persore

River Teme

Tenbury Wells



Planning and preparation

Emergency management protocol – Setting out the approach the management of emergency events

Flood action plans – Bespoke action plans for specific locations known to cause significant network issues

worcestershire highways

Upton upon Severn
Flooding & Diversion Signage
Information & Instructions





Image © Flood Signs to Go 2017





Please ensure you only use the most up to date version of these instructions, all previous instructions regarding this area must be disregarded & destroyed.

Upton upon Severn V1.0 Dec 2022

worcestershire highways


Eckington Bridge
Closure/Flooding Signage,
Information & Instructions






Please ensure you only use the most up to date version of these instructions, all previous instructions regarding this area must be disregarded & destroyed.

Eckington Bridge V1.8 Aug 2019 Page 1

 **worcestershire**
county council


B4035 Waterside
Evesham
Phase 1
Closure/Flooding Signage
Information



B4035 Waterside, Evesham - January 2020

worcestershire highways

A443 Eardiston To Newnham
Closure/Flooding Signage,
Information & Instructions



Please ensure you only use the most up to date version of these instructions, all previous instructions regarding this area must be disregarded & destroyed.

A443 Eardiston To Newnham Closure V1.3 Aug 2019 Page 1

Planning and preparation

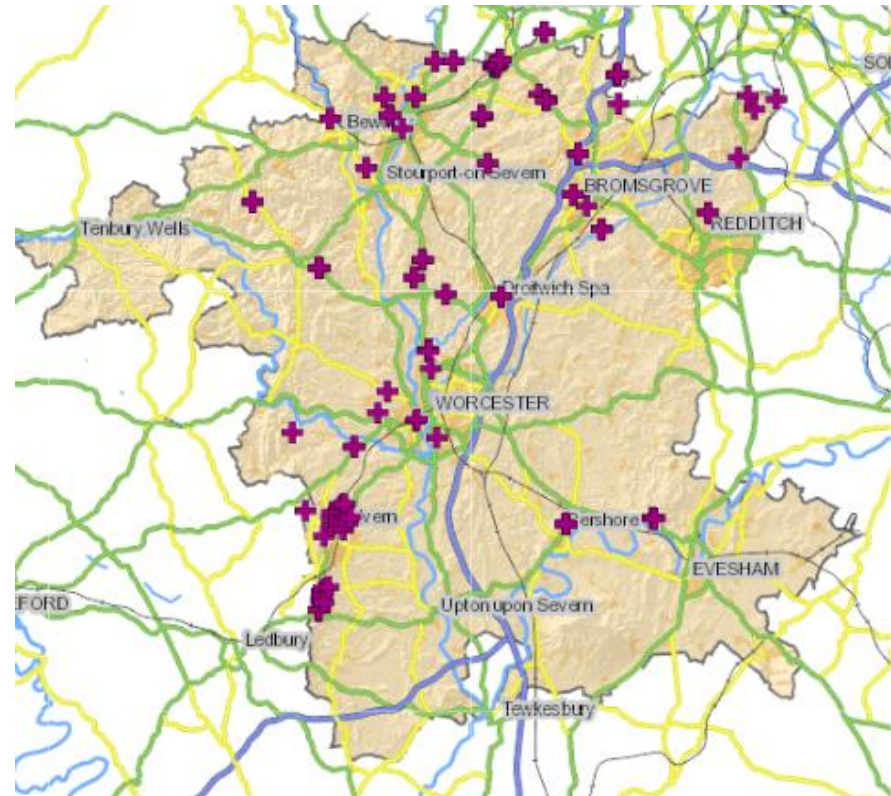
Emergency management protocol – Setting out the approach the management of emergency events

Flood action plans – Bespoke action plans for specific locations known to cause significant network issues

Scheduled and event prompted maintenance – Critical maintenance activities

Scheduled and event prompted maintenance

Monthly trash screen clearance



Planning and preparation

Emergency management protocol – Setting out the approach the management of emergency events

Flood action plans – Bespoke action plans for specific locations known to cause significant network issues

Scheduled and event prompted maintenance – Critical maintenance activities

Pre-placement of assets – flood skips containing signs barriers and other TM required for specific action plans



Operational preparedness – Pre-season

- Pre-season review – A review of all after action wash-ups from previous season's events with staff and contractor.
- Pre-season training – Training for all out of hours duty managers and officers as well as staff who provide support during weather and emergency events. Includes Policy, process and practice.
- Pre-season training of operatives – essential for communication of any changes to know action plans and to provide context to actions.

Operational preparedness – Pre-event and during an event

- Phase 1 - Initial co-ordination meeting between Operations Manager/Head of Highway Operations and reactive team leaders to assess risk level. Generates initial update for contractor and reactive team. Typically 2-5 days from event
- Phase 2 – Identification of initial resource requirements. Decision to defer planned work to free up operative resource. Prepare initial work and rest schedules for WCC staff. Typically 1-2 days from event.
- Phase 3 – Daily review of resourcing requirements for staff, plant and equipment. From day 1 of event and until end of the recovery (phase 4).
- Phase 4 – Recovery, usually around 3-5 days but can vary Note: The recovery phase is often overlooked from a resource perspective yet is often critical from a reputational perspective

Management of a flooding event

Emergency GIS (EGIS)

- Plotting and recording of incidents, actions and diversions.
- Plotted river levels and river level trends
- Generate road closure and opening reports
- Access to flooding WebCams and traffic signal cameras
- Track WCC assets (gully emptiers etc.

Situation Reporting (SitRep) Tool


Collating information from EGIS to present available information

Adverse weather update

Provides a customisable summary and narrative and sends information by email to set and customisable address list

Management of road closure information

- Over 50 pre-plotted road closure locations including plotted diversion routes
- Option to plot bespoke closures and diversion
- Auto generates TMA forms to our street works team
- Generate reports quickly to show current road closures and roads recently reopened

 Data from Worcestershire County Council's [Highways Maintenance Emergency GIS](#) Information on this page will auto-update every minute Filter by date range: From: To:

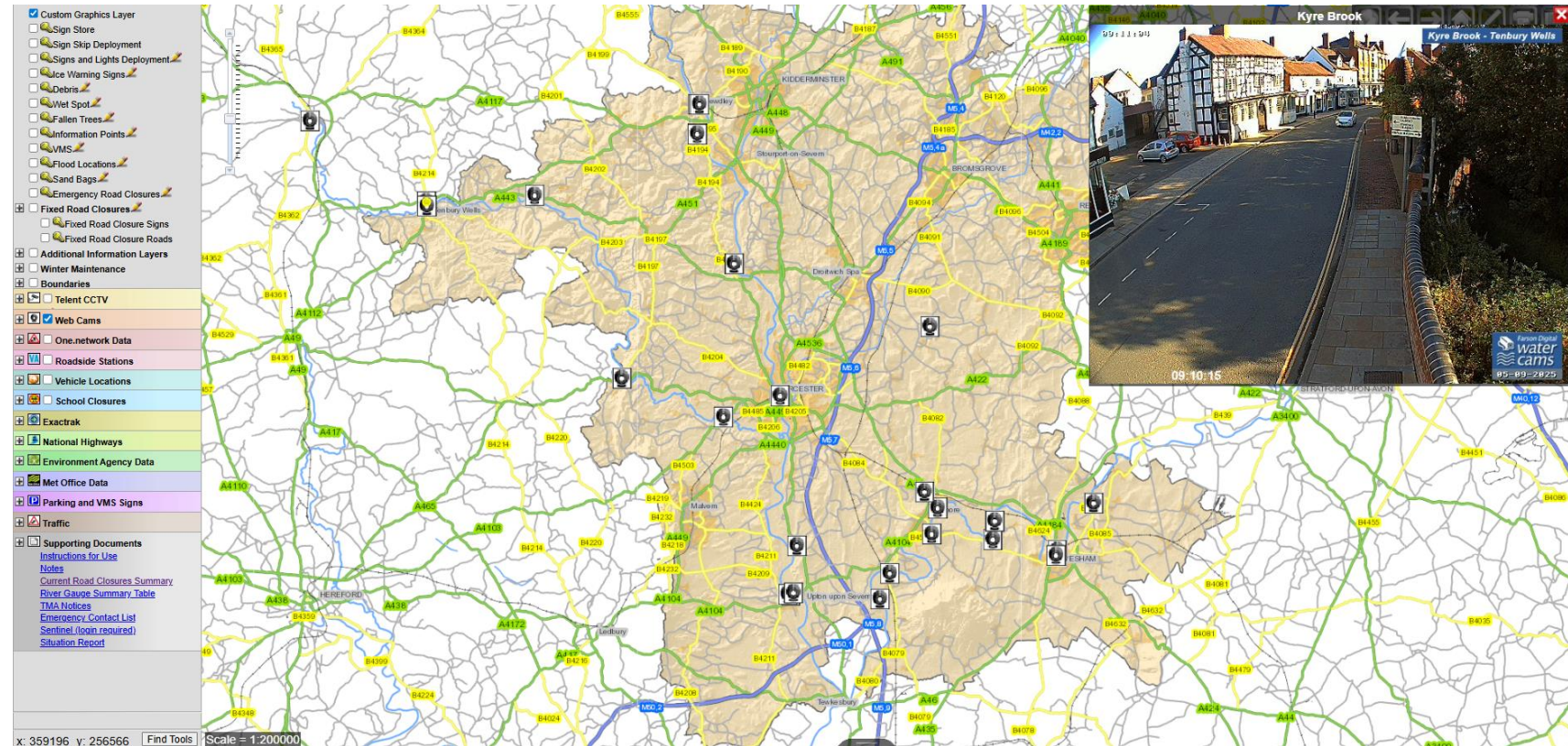
Current Emergency and Fixed Road Closures

Type	Close Date	Closure Name	Locality	Created By	Reason	Comments	Alert Message	TMA Closure
Fixed	05/09/2025 08:55:00	B4196 Holt Heath To Shrawley	B4196 SHRAWLEY, SHRAWLEY	criley	Flood	Test	B4196 Holt Heath To Shrawley Is Closed Follow Signed Diversion	File
Fixed	05/09/2025 08:55:00	Upton On Severn Hanley Rd	HANLEY ROAD, UPTON UPON SEVERN	criley	Flood	Test	Hanley Rd B4211 Upton on Severn Closed Between Hanley Rd Car Park & Brotheridge Green Ln U61203 Junction, Follow The Solid Black Circle Symbol Diversion Route	File
Emergency	10/08/2025 17:00:00	ST ANDREWS STREET	DROITWICH SPA	bsparrow	Police Request	Large Fire at Raven Hotel	St Andrews Road Droitwich Closed due to building fire	File
Emergency	10/08/2025 17:00:00	ST ANDREWS STREET	DROITWICH SPA	bsparrow	Police Request	Large Fire at Raven Hotel	St Andrews Road Droitwich Closed due to building fire	File
Emergency	25/09/2024 16:45:00		Not Found	bsparrow	Accident	RTC with car and building		File
Emergency	24/09/2024 18:30:00	ST ANDREWS STREET	DROITWICH SPA	bsparrow	Debris	Raven Hotel		File
Emergency	26/02/2024 10:00:00	MITTON STREET	STOURPORT ON SEVERN	bsparrow	Debris	collapsed / leaning private wall		File
Emergency	19/02/2024 10:30:00		Not Found	bsparrow	Land Slip	retaining wall and adjacent garden slippage		File
Emergency	08/02/2024 16:35:00	RESERVOIR LANE	WORCESTER	criley	Land Slip	Collapsed private wall blocking road and bank unstable		File

Number of currently closed roads = 9

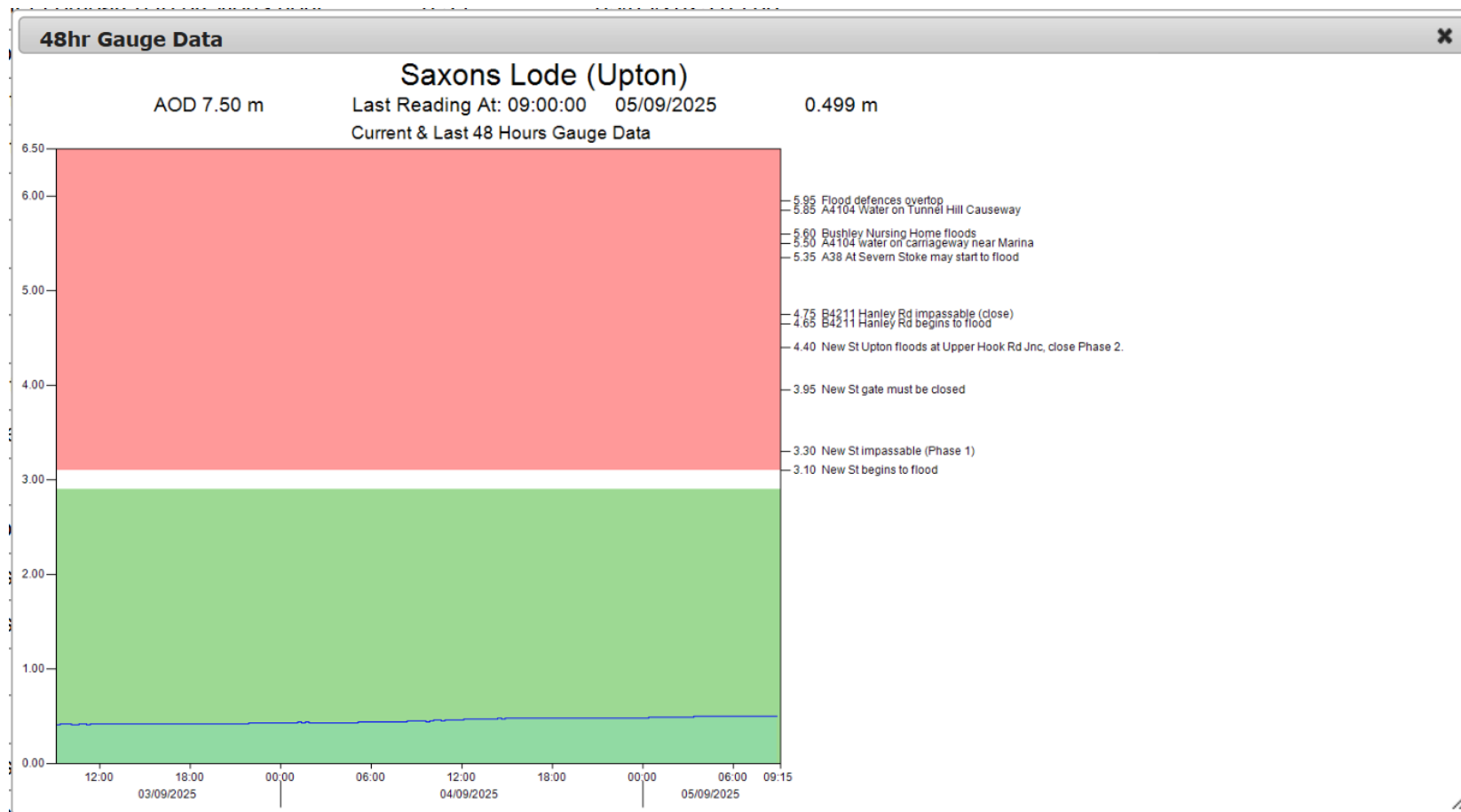
WebCams

- Placed at strategic locations
- Remote monitoring
- Reduces requirement for site attendance
- Real time information 24/7
- Traffic signal cameras in city centre











River gauge levels

- All data taken direct from EA sources
- Custom Summary tables to show trends
- Custom alert levels specific to highway asset risk
- Custom graphs to shown threshold for action and impact on highway network



Situation reports (SitRep)

- Road closure summary
- Flood gauge summary
- Web Cam images
- Other information like current EA flood warnings

 worcestershire county council	Highways Maintenance Situation Report	Effective:
Environment Agency Flood Warnings in Worcestershire		
Arrow, Aine  No longer in force Last Updated: 2019/02/23 17:13		
Avon  Flood Warning <p>Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your property. Local flooding and river conditions. Avoid contact with walking or driving through flood water. Consider activating any property flood products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. Do not act on this message has been automatically issued based on rising river or tidal levels.</p> Last Updated: 2019/02/23 15:14		
 Flood Alert <p>Flooding is possible in this area. Monitor local water levels and weather conditions. Avoid using low lying footpaths or entering areas of flooding. Start acting on your flood plan if you have one. Environment Agency Flood Warning Officers set the river or tidal levels that this message. During industrial action this message has been automatically issued based on rising river or tidal levels.</p> Last Updated: 2019/02/23 12:19		
 No longer in force <p>This Flood Warning has been removed. River levels have now fallen below the flood risk threshold. The Flood Warning for the area has been removed. However, a Flood Alert remains in force for the wider area, so flooding may still affect roads and low lying land. We continue to monitor the situation. Our incident response staff are liaising with emergency services and clearing debris from weed screens.</p> Last Updated: 2019/02/23 08:32		
 No longer in force <p>This Flood Warning has been removed. River levels have now fallen below the flood risk threshold. The Flood Warning for the area has been removed. However, a Flood Alert remains in force for the wider area, so flooding may still affect roads and low lying land. We continue to monitor the situation. Our incident response staff are liaising with emergency services and clearing debris from weed screens.</p> Last Updated: 2019/02/23 08:33		
 No longer in force <p>This Flood Warning has been removed. River levels have now fallen below the flood risk threshold. The Flood Warning for the area has been removed. However, a Flood Alert remains in force for the wider area, so flooding may still affect roads and low lying land. We continue to monitor the situation. Our incident response staff are liaising with emergency services and clearing debris from weed screens.</p> Last Updated: 2019/02/23 22:39		
Avon, St Johns, Fishers  Flood Alert <p>Flooding is possible in this area. Monitor local water levels and weather conditions. Avoid using low lying footpaths or entering areas of flooding. Start acting on your flood plan if you have one. Environment Agency Flood Warning Officers set the river or tidal levels that this message. During industrial action this message has been automatically issued based on rising river or tidal levels.</p> Last Updated: 2019/02/23 05:57		

Page 13 of 20

worcestershire
county council

Highways Maintenance
Situation Report

Effect

Flooding: Start acting on your flood plan if you have one. Environment Agency Flood Warning Officers set the river or total level this stage. During industrial action this message has been automatically issued based on rising river or total levels.

Last Updated: 2010/08/23 14:56

Piddle, Bow

Flood Alert

Flooding is possible in this area. Monitor local water levels and weather conditions. Avoid using low lying footpaths or entering flooding. Start acting on your flood plan if you have one. Environment Agency Flood Warning Officers set the river or total level this message. During industrial action this message has been automatically issued based on rising river or total levels.

Last Updated: 2010/08/23 01:43

Salwarpe

No longer in force

This Flood Alert has now been removed. We continue to monitor the situation.

Last Updated: 2010/08/23 08:32

Severn

Flood Warning

Flooding is possible in this area. Monitor local water levels and weather conditions. Avoid using low lying footpaths or entering flooding. Start acting on your flood plan if you have one. As previously communicated the Barriers at Beasle Corner will not be constructed of the Flood Risk Management Scheme. Environment Agency Flood Warning Officers set the river or total level this message. During industrial action this message has been automatically issued based on rising river or total levels.

Last Updated: 2010/08/23 12:33

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property products you may have. Environment Agency Flood Warning Officers set the river or total levels that have triggered this message. During industrial action this message has been automatically issued based on rising river or total levels.

Last Updated: 2010/08/23 13:43

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property products you may have. Environment Agency Flood Warning Officers set the river or total levels that have triggered this message. During industrial action this message has been automatically issued based on rising river or total levels.

Last Updated: 2010/08/23 12:12

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property products you may have. Environment Agency Flood Warning Officers set the river or total levels that have triggered this message. During industrial action this message has been automatically issued based on rising river or total levels.

Last Updated: 2010/08/23 12:43

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your

Page 15 of 20

worcestershire
county council

Highways Maintenance
Situation Report

Effective: 22/10/2023 12:43

local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property flood protection products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Last Updated: 21/10/2023 05:43

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your property and monitor local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property flood protection products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Last Updated: 21/10/2023 05:43

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your property and monitor local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property flood protection products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Last Updated: 21/10/2023 05:28

Flood Warning

Flooding is possible in this area. Monitor local water levels and weather conditions. Avoid using low lying footpaths or entering areas prone to flooding. Start acting on your flood plan if you have one. As the New Street flood scheme gate at Upton upon Severn has been closed, we are currently not expecting protected properties in this area to be inundated. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Last Updated: 21/10/2023 11:19

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your property and monitor local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property flood protection products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Last Updated: 21/10/2023 12:58

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your property and monitor local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property flood protection products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Last Updated: 21/10/2023 13:39

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your property and monitor local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property flood protection products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Last Updated: 21/10/2023 15:42

Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your property and monitor local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property flood protection products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Last Updated: 21/10/2023 15:43


Flood Warning

Flooding is expected in this area. This means properties are at risk of flooding. Please take action to protect yourself and your property and monitor local weather and river conditions. Avoid contact with, walking or driving through flood water. Consider activating any property flood protection products you may have. Environment Agency Flood Warning Officers set the river or tidal levels that have triggered this message. During industrial action the message has been automatically issued based on rising river or tidal levels.

Page 16 of 20

Adverse weather dashboard

- Web based dashboard
- Generates a proforma front sheet
- Includes details of levels of resources deployed
- Provides opportunity for narrative and not just data
- Summarises actions taken and planned future action
- Allows for management of expectation.
- Provides platform to attach other documents and then email to pre-set groups ie. Members and partner organisations

 **Highways Weather**
Event Report

Raised by: Chris Riley
Raised on: 24/11/2024 12:57:29

Additional Comments

We have seen some heavy rain overnight and into this morning with a significant number of minor issues relating to surface water flooding and fallen trees across the county. We are also experiencing rising river levels with significant impacts along the Teme valley and particularly in Tenbury Wells.

Teme

Tenbury Wells is significantly impacted by flooding with Teme Street and Market Street impassable. It is possible that A4103 at Bransford may be impacted later today. We will continue to monitor this closely.

Severn

No significant impact at present however it is likely that New Street in Upton will be impacted due to the closure of the floodgates by the EA later today.

Avon

No significant impact at present.

A full list of closed roads is detailed in the attached Sit-Rep.

Post event

- Immediate wash up and review within 10 days
- Annual review prior to pre-winter training session for all duty staff and others involved in support of emergency events

Questions

