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Senior Advisor – Flood Risk Management

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Partnership & Strategic Overview Team Leader

13 March 2025



Roles and Responsibilities

The Environment Agency is responsible for taking a **strategic overview** of the management **of all sources of flooding** and coastal erosion and are responsible for managing the risk of flooding from main rivers, reservoirs estuaries and the sea

Strategically: this involves **working with partners** to assess and determine flood risk and to identify and deliver solutions to mitigate that risk.

We provide **information on areas at risk** of river, surface water and coastal flooding through flood risk maps.

Operationally: We issue **flood warnings** for main river flooding, our operations team **maintain assets** and clear blockages.

We conduct post-flood investigations to understand what occurred...

Our Resilience team work with the community to help the community respond to the event.

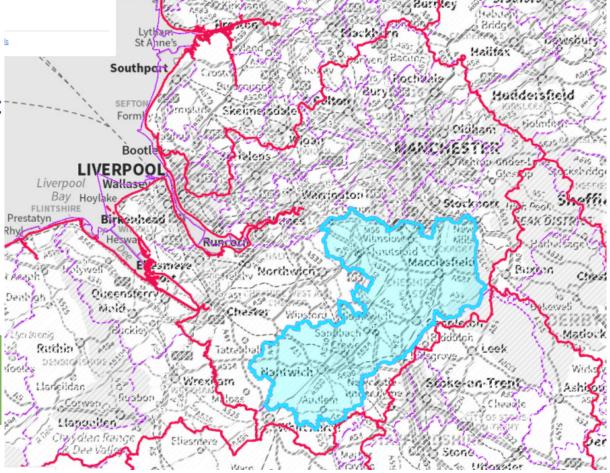




13 Flood Alert Areas 4 in Cheshire East



Over 15,200 properties at flood risk from rivers and sea. 593 in Cheshire East





180 Flood Warning Areas- 15 in Cheshire East

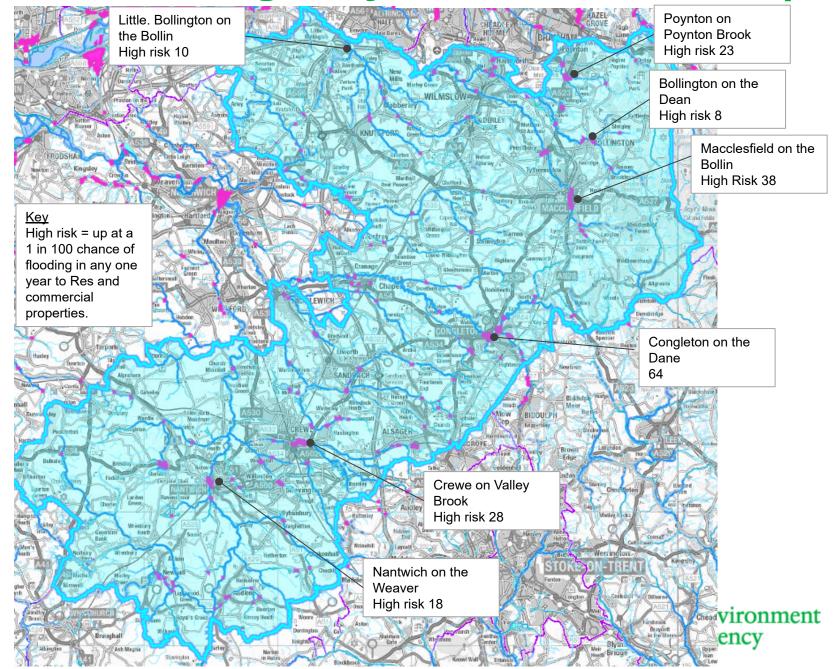


Working with 50 Communities at risk



Over 300 incident response staff

Environment Agency Main River risk map



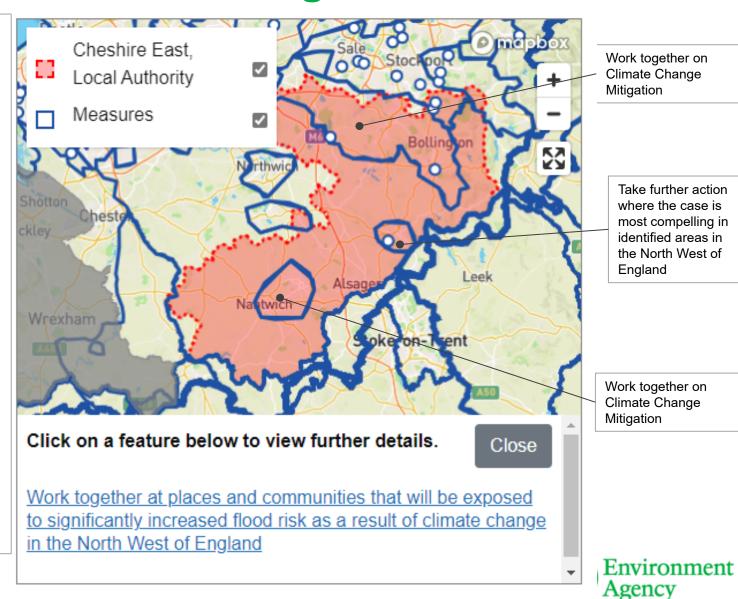
Environment AgencyFlood Risk Management Plan 2

National EA strategy

EA: area based strategy, with measures in FRMP2 (second cycle)

Available on Gov.uk

- Key messages: climate change mitigation
- work together
- reduce Carbon
- invest in flood risk assets
- provide planning advice
- monitor weather
- forecast flooding



Investigate main river flood risk solutions. Strategically, EA administer Defra Flood Defence Grant in Aid (FDGiA) Schemes, and Local Levy funding for the Regional Flood and Coastal Committee. This means advising on schemes, and providing QA on business cases to turn indicative allocations into signed off business cases and deliverable schemes.

Cheshire East Lead Local Flood Authority

Lindow Community Primary School Flood Alleviation

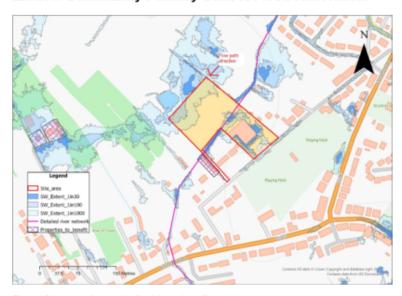


Figure 1 Scheme location, existing flood risk and benefit area



Figure 2 Overland flow route direction and speed (EA Long Term Flood Risk Map)

Recommendation

It is recommended that the approval for expenditure of £89.5k (including £72.5k GiA and £17k Local Levy) is given to implement Natural Flood Management and Sustainable Drainage features to reduce flood risk to Lindow Community Primary School and surrounding residential properties in Wilmslow. This project provides around £970k of benefits over a 50 year appraisal period and provides a 50 year



New Years Flooding Event - GMMC

Flood Event Impacts



Record river levels on River Mersey

- Brinksway 5.01m
- Didsbury 7.67m
- Northenden 3.76m

All 7 flood storage reservoirs were operated





10,454 properties across GMMC were protected

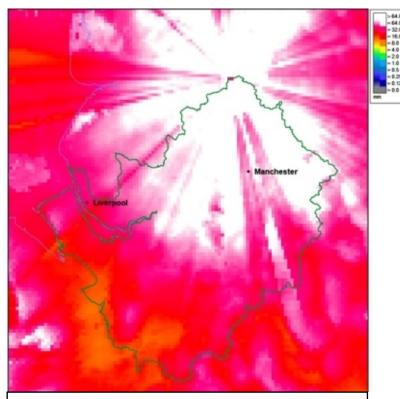
360 properties flooded across GMMC,





350+ incident reports received from the public

Rainfall



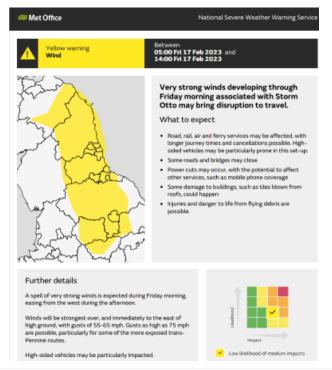
A map representing the total rate of rainfall over the 24hr period from 17:00 31/12 to 01/01



Incident Response

During a Flood Event, we:

- Receive Weather Warnings from the Met Office.
- Run Forecast weather through Hydrological flood models to determine Best Estimate and Reasonable Worse case forecast scenarios
- Hold Flood Advisory Service (FAS) Telecoms with Resilience forum to disseminate intelligence
- Attend command structures and give technical advice on Flood Warnings and operational response and potential impacts
- Issue Flood Alerts & Warnings using Flood Warning System - telephone system, text and internet, partners, media etc
- Operate flood control structures and pumping stations
- Clear debris from channels, screens and culverts on main rivers and monitor/repair stressed defences **OFFICIAL**



Environment Agency Flood Alerts/Warnings





Post Flood

Post-Flood, we:

Undertake post-flood data collections.
 Community Support Officers advise communities on how to proceed, closely liaising with Local Authorities.

Support Multi Agency Flood Drop-ins followhere channel downstream has trees growing in it. This is further impacting the conveyance of the brook and these need removing. The section requiring maintenance is the section marked in yellow above.

flooding

 We have supported communities across Poynton, Little Bollington, Bollington, Wilmslow, Church Minshull and Nantwich

 Advice ranges from insurance requests, possibly grants form Government, future flood risk, potential short-term mitigation.

- Input to LLFA's section 19 Reports
- Working collaboratively with partners on potential solutions



Capital Programme Update

Since Last year:

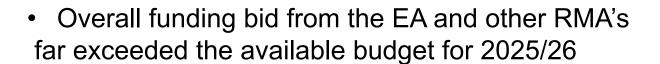
LACPA post co-ordinating and assisting Business case approval and admin. Assist CE on Capital Projects delivery (add pics)

Cheshire East Project Deliver					
	Funding	Business	Properties Better	Constn.	
Scheme name	amount/source	Case	protected	date	Comments
					Phase 1 completed but culvert failure lead
Ryles Pool (Hobson St),	£143k FDGiA,				to withdrawal of phase 2 funding
Macclesfield Phase 1	£120k LL, £10k CE	FBC	11 props	Nov-24	application
	£30k LL, £15k CE,	OBC Oct			
Lindow Primary School	FDGiA £60k	2024	1 school, 3 props	Aug-25	Refresh bid for £60k FDGiA.Unsuccesful.
\\\'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					II. Planta tarang and the same and the same
Wilmslow & Weston Skate Park, Macclesfield.					Unlikely to progress at the moment due to resources.
r urit, indooroonold.					Toocal coo.
0-110\\	0001-1-1	0-4-04	Business, railway	M 05	High level carrier to reduce flooding on
Calveley QW	£20k LL	Oct-24	line, A road, 1 prop	Mar-25	A51, Local business's and railway



Future Capital Programme

- Current six-year capital investment programme will end a year early
- government deciding on the 2026/27 programme and beyond as part of the next spending review
- Partnership funding rules to be reviewed





Cheshire East Projects 25/26:

	GiA Funding	Local Levy
Lindow Primary School FAS	£0	£30k (FY24/25)



Partnership Working

Since Last year:

Monthly Operational meetings with UU and CE, where detailed operational works are progressed. (E.g. Calveley, Fulshaw Park, Wynbunbury). Review, check actions, agree investigations, raise new issues, for operational response.

Α	В	C	D	E	F	G	Н
Site Issue / Postcode UU Name Engineer		UU	Comments		Date of Action	Act	
		Engineer		v	¥	1	
				2 Bechwood Dirve, Congleton (CW12 2NQ) has experienced Foul flooding and is still living in the pub - needs to be checked.			
				Survey was completed, few props have built over the culvert. Residents are wanting CE to upsize the cculvert but there is a property built above and CE do not have the funding at present. Lots of SW going into the UU network as it is foul only. No solution art present, no contacts to either UU or CE for a while. The is also a pond slightly further up that has had levels raised oit cant hold any water any more and pools down the road.			
Yew Tree -		Mike	19.07.2023	Raised with CE to remove the gully connections.	19.07.2023	Colin	Colin to send over the location of the gullies to be removed
Highway Drains	Mounsey		Site visit hopefully next Thursday			and to arrange a site visit.	
					19.07.2023	Guy	Raise for the gullies to be removed
			05.01.2024	CE have done a project and removed 2x Highway Gullies from foul system but havent connected them into the culvert. Resident has called in since and said that there is a big puddle due to the gullies not being connected. Rebecca said that when they were on site they said there was another outfall so they have tapped into that - this could be blocked	05.01.2023	Guy	Catch up with team to understand the connection
		05/07/2024	Gulleys disconnected from sewer have not been connected back into anything.	05/07/2024	Cheshire East	CE - To investigate potential misconnections	
						Jake / Mike	JH/MM - To update with investigations
Valley Road, Wistaston		Amy Tonner	19.07.2023	Number 14 has 4 gullies outside to try and handle overland flow but the gullies cannot control the flooding, number 14 has repeat internal flooding, next door is also slightly higher so the flows from next door also flow into number 14. They are 3rd generation of flooders. CE want to do a quick win bid for property level resilience and want to install flood doors. System here is combined. DNM monitor in MH 8402. Could be a highway drain that the gullies have been connected too. There is a pub opposite that hasnt seen any internal flooding so indicates that it may not be an issue with the combined sewer but more likely to be with the gullies/highway drains.	19.07.2023	Amy	Amy to check the DNM monitor in MH 8402 (Woodside Lane) for potential spikes
			05.01.2024	CE - Quick win bid approved for the property level resilience - £10k			
			10/05/2024	Mitigation funding has been sanctioned but the money has gone to Cheshire East pot and they are trying to retrieve the money from the CE pot. Legal conversations about the indemnity insurance so need to iron a few things out before they are installing. Being manufactured and installed by Whitehouse. Guaranteed for 12 months.			
			05/07/2024	Whitehouse are booked up programme until Nov 25. CE considering other options to try and	05/07/2024	Cheshire East	To liaise with legal department on potential options and

Natural Flood Risk Management

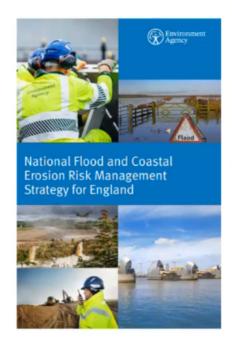
Since Last year:

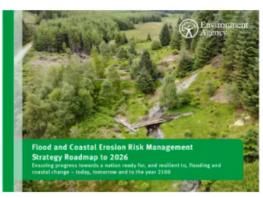
Climate resilience. Increase flood awareness work. Continue to work on NFM locations. Working with landowners, on encouraging NFM (via CaBA)

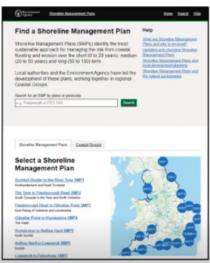


National Assessment of Flood Risk

- Updating our current and future understanding of flood and erosion risk are requirements of our 'Strategic Overview' duties and key commitments in the statutory FCERM Strategy
- Publishing 2 significant improvements in mapping and communicating our flood and coastal erosion risk information:
 - New National Flood Risk Assessment (NaFRA2)
 - 2. Updated National Coastal Erosion Risk Map (NCERM)



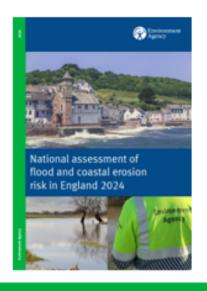






National Assessment of Flood Risk

How are we making the new information available



Updated National Coastal Erosion Risk Map (NCERM)

Plood area (extent)

Vearly chance of flooding between 2036 and 2069

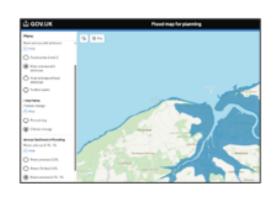
Flood area (extent)

High chance

Medum chance

Low chance

Very low chance



We published a report explaining how flood and coastal erosion risk is changing across England and why

17 December 2024

We will publish the data on GOV.UK and update our digital services - 'Check Your Long-Term Flood Risk'

28 January 2025

We will publish updated Flood Zones and add new data to 'Flood Map for Planning'

Spring 2025

