

LOCKED DATA	LOCKED DATA	LOCKED DATA
NAME	CFMP Name	Policy_Unit_Name
Cheshire West and C	Mersey Estuary	Bebington (+Ellesmere Port)
Cheshire West and C	Mersey Estuary	Bebington (+Ellesmere Port)
Cheshire West and C	Mersey Estuary	Bebington (+Ellesmere Port)
Cheshire West and C	Mersey Estuary	Bebington (+Ellesmere Port)
Cheshire West and C	Mersey Estuary	Greasby (Heswall & Neston)
Cheshire West and C	Mersey Estuary	Greasby (Heswall & Neston)
Cheshire West and C	Mersey Estuary	Greasby (Heswall & Neston)

Cheshire West and C	Weaver Gowy	Northwich
Cheshire West and C	Weaver Gowy	Northwich
Cheshire West and C	Weaver Gowy	Winsford and Middlewich
Cheshire West and C	Weaver Gowy	Winsford and Middlewich
Cheshire West and C	Weaver Gowy	Winsford and Middlewich
Cheshire West and C	Weaver Gowy	Winsford and Middlewich
Cheshire West and C	Weaver Gowy	Winsford and Middlewich

Cheshire West and C	Weaver Gow	Rural Areas
Cheshire West and C	Weaver Gow	Rural Areas
Cheshire West and C	Weaver Gow	Rural Areas
Cheshire West and C	Weaver Gow	Rural Areas
Cheshire West and C	Weaver Gow	Rural Areas

LOCKED DATA	LOCKED DATA	LOCKED DATA
Old Action Number	New Action Number	Lead Organisation
	MER13.002	Local Planning Authorities
	MER13.006	Local Authority
	MER13.008	Local Authority
	MER13.009	Local Authority
	MER14.002	Environment Agency
	MER14.003	Environment Agency
	MER14.005	Environment Agency

	MER14.006	Environment Agency
	WEG0B.001	Environment Agency
	WEG0B.004	Environment Agency
	WEG0B.005	Local Authority
	WEG0B.006	Local Authority
	WEG0B.007	Local Authority
	WEG0B.008	Local Planning Authority
	WEG0B.009	Environment Agency
	WEG0B.010	Site Owner/ Operator

	WEG0C.001	Environment Agency
	WEG0C.002	Local Authority
	WEG0C.003	Local Planning Authorities
	WEG0C.004	Local Planning Authorities
	WEG0C.005	Local Authority
	WEG0C.006	Local Authority
	WEG0C.010	Environment Agency

	WEG0C.011	Local Planning Authority
	WEG0C.012	Site Owner/ Operator
	WEG0D.001	Water and Electricity Utilities and Infrastructure
	WEG0D.002	Local Authority
	WEG0D.004	Environment Agency
	WEG0D.005	Local Planning Authority
	WEG0D.006	Local Authority

	WEG0G.004	Local Authority
	WEG0G.005	Local Authority
	WEG0G.006	Local Planning Authorities
	WEG0G.012	Site Owner/ Operator
	WEG0G.013	Site Owner/ Operator

LOCKED DATA

Action

Seek to ensure that, where development must, exceptionally, take place in areas at risk of flooding, include measures such as, floor levels are raised to an appropriate level, flood resilience is incorporated into buildings and it is demonstrated that safe access and evacuation can be provided during flooding.

Encourage the use of appropriately designed SUDS to control run-off at source. Consider appropriate detention times, maximum run off rates and produce a map to aid in increasing the take up of SUDS to mitigate flood risk. The map will show where infiltration SUDS are appropriate and where they may not be.

Encourage the use of flood resilience and flood-proofing to existing properties in locations where the Standard of Protection is less than 1%; this will include Bebington, Bromborough and Ellesmere Port. This will be through the provision of information and advice and seek appropriate opportunities for funding these measures. (Pitt Review rec no 15)

Look to investigate appropriate methods to provide protection or resilience to key infrastructure and receptors (eg. transport network and power and gas stations)

Work with local and national government to create economic and social conditions that encourage appropriate land use and land management.

Consider appropriate detention times, maximum run off rates and produce a map to aid in increasing the take up of SUDS to mitigate flood risk downstream in policies 12 & 13, which include Birkenhead, Bebington and Ellesmere Port. Map will show where infiltration SUDS are appropriate and where they may not be. for 5%, 1%, 1% + climate change and 0.1% return periods. This will provide key Agency data and deliver accurate flood outlines for updating Flood Map.

Develop a Strategy to identify opportunities for flood attenuation including on/offline storage within this policy unit to alleviate flood risk downstream in policies 12 & 13, which include Birkenhead, Bebington and Ellesmere Port. Work closely with Natural England and partners to look at the best ways of managing flood risk in these areas.

<p>Undertake further studies to identify areas in upper river reaches <input type="checkbox"/> where Water Level Management Plans, (WLMP) and Habitat <input type="checkbox"/> Creation Plans (HCP) can contribute to alleviate flood risk <input type="checkbox"/> downstream.</p>
<p>In the short term, complete the proposed new flood defence scheme for the Keckwick Brook area. This Standard of Protection should then be sustained into the future.</p>
<p>Undertake an audit of existing flood risk management assets, including the roles and responsibilities of all operational authorities to ensure effective maintenance and management during future flooding events.</p>
<p>Encourage and assist the Regional Assembly and Local Planning Authorities to produce Regional and Strategic Flood Risk Assessments. Use these to inform future development and minimise flood risk from all sources. This is particularly important as it guides action no. 6.</p>
<p>Influence the planning system to ensure that inappropriate development is guided away from flood risk areas and where permitted, the risks are adequately mitigated. <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>A high number of properties are at risk of flooding. Every opportunity (such as re-development) should be taken to move properties out of the floodplain consistent with the Environment Agency's policy to open up the flood plain. Where this is relocation is possible no further flood risk measures will be necessary.</p>
<p>Encourage local authorities covering flood risk areas to consider extending eligibility for home improvement grants and home loans to encompass flood protection and resilience products in line with increased future risks (as recommendation 12 of the Pitt Review).</p>
<p>Full use should be made of SuDS in decisions regarding future development in the Keckwick Brook catchment. Maximise attenuation beyond greenfield if possible. <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>Consider mapping the suitability of SuDS at a local level to facilitate this.</p>
<p>Raise awareness of current and future risks through flood awareness campaigns.</p>
<p>Assess level of flood risk at the landfill sites (Frodsham and Weston) and look at localised protection measures needed to reduce flooding and water quality.</p>

Use Northwich Flood Alleviation Scheme Pre-feasibility study (2007) to inform the planning process and future bids for national funding for a Northwich Strategy Plan. A strategy would be used to understand the level of flood risk and look for opportunities and actions (a suite of measures from storage to localised land-use change is likely to be needed) to reduce flood risk in Northwich and further downstream. An area of storage at Winsford Top Flash is recommended as being most cost beneficial for Northwich. □

□

N.B. Northwich has a low priority score within the NW and is unlikely to secure national funding for a flood defence scheme in the near future due to budgetary constraints. There are however other mechanisms for funding that include developer contribution and local levy.

Encourage and assist the Regional Assembly and Local Planning Authorities to produce Regional and Strategic Flood Risk Assessments. Use these to inform future development and minimise flood risk from all sources. This will help to inform and deliver action no. 3.

Influence the planning system to ensure that inappropriate development is guided away from flood risk areas and that where development is permitted, the risks are adequately mitigated.

Where development must, exceptionally, take place in areas at risk of flooding, ensure that floor levels are raised to an appropriate level (incorporating increases due to climate change), flood resilience is incorporated into buildings and it is demonstrated that safe access and evacuation can be provided during flood events.

Encourage local authorities covering flood risk areas to consider extending eligibility for home improvement grants and home loans to encompass flood protection and resilience products (as recommendation 12 of the Pitt Review)

Assess risk for the 2 schools and 3 medical centres identified as being at risk of flooding. Ensure these services adopt appropriate resistance/resilience measures. □

□

Ensure local authority has evacuation and contingency measures in place for schools and medical centres. Emergency plans should take the vulnerability of the A559 and A533 into account when planning for response to flood risk.

Review extent of the Flood Warning Area (see Figure 3.13) as climate change occurs, and update Vale Royal Borough Council Flood Incident Response Plan.

Full use should be made of SuDS in decisions regarding future development so as to avoid increased risk to Northwich. Maximise attenuation beyond greenfield if possible.

Consider mapping the suitability of SuDS at a local level to facilitate this.

Assess level of flood risk at industrial sites (e.g. Winnington landfill site, Winnington chemical works, sewage treatment works) and look at localised protection measures to reduce flooding to reduce potential water quality and contamination issues.

Continue to investigate causes of sewer flooding (including links to river processes) and the standards of service in relation to problems, followed by appropriate remedial works. This will have benefits to the water quality of the area (consistent with the aims of the Water Framework Directive).

Work in partnership to identify the theoretical sewer flood risk to properties, sharing this information with others to aid integrated urban drainage.

Encourage local authorities covering flood risk areas to consider extending eligibility for home improvement grants and home loans to encompass flood protection and resilience products (as recommendation 12 of the Pitt Review)

Development and implementation of Systems Asset Management Plan to ensure most efficient maintenance programme and continue with current actions where sustainable.

Full use should be made of SuDS in decisions regarding future development. Maximise attenuation beyond greenfield if possible.

Consider mapping the suitability of SuDS at a local level to facilitate this.

Assess feasibility of providing a flood warning provision for Winsford given the high level of risk to caravan site and high flood depths.

Local authorities and responding services should be aware of the areas of flooding hazard and take appropriate action following the issue of flood watches.

Raise awareness of flood risks through flood awareness campaigns.

Encourage local authorities covering flood risk areas such as the Manchester Ship Canal catchment to consider extending eligibility for home improvement grants and home loans to encompass flood protection and resilience products (as recommendation 12 of the Pitt Review).

Encourage and assist the Regional Assembly and Local Planning Authorities to produce Regional and Strategic Flood Risk Assessments. Use these to inform future development and minimise flood risk from all sources.

Influence the planning system to ensure that inappropriate development is guided away from flood risk areas and where permitted, the risks are adequately mitigated.

Assess risk at Kemira Fertiliser plant and ensure site operator has resistance/resilience measures to reduce potential water quality and contamination issues.

Assess level of risk of the landfill sites and look at localised protection measures to reduce potential water quality and contamination issues.

LOCKED DATA	LOCKED DATA	FREE TEXT BOX. PLEASE DESCRIBE PROGRESS MADE AGAINST THIS ACTION
Success Criteria	Indicator	Action Comments
Appropriate measures are taken with Environment Agency advice.	Number of decision notices received in line with Environment Agency advice	
Sustained increase in the use of SUDS on appropriately sized developments / regeneration.	Proportion of developments > 1 ha incorporating SUDS	
Monitor the take up of flood resilience and flood proofing measures	Number of decision notices received in line with Environment Agency advice	
Appropriate methods and programme have been identified.	Scale of risk identified	
Sustained increase in the use of SUDS on appropriately sized developments.	Economic and social conditions created and monitored	
Sustained increase in the use of SUDS on appropriately sized developments.	Proportion of developments > 1ha incorporating SUDS	
Completion of the Strategy. <input type="checkbox"/> Identification of possible sites for flood storage.	Number of sites identified	

Locations identified and discussed with environmental partners, local authorities and land owners.	Development of WLMP and HCP Number of BAPS, SSSI	
Scheme protects 170 properties.	Scheme completed	
Partners work to cost-effectively maintain and operate flood risk assets.	Audit of condition of assets completed Memorandum of roles and responsibilities signed between Environment Agency and partners	
Regional and Strategic Flood Risk Assessments used to guide planning process.	Regional and Strategic Flood Risk Assessments produced as appropriate.	
Residual flood risk does not rise with development and re-development opportunities actually achieve risk reduction.	No Environment Agency objections to approvals given for development in floodplain. Number of properties identified for removal from flood plain	
Reduced consequence of flooding to properties at high flood risk.	Decision taken on whether to extend eligibility for home improvement grants	
Appropriate SuDS technology adopted. Need for SuDS maps considered and funding stream sought.	SuDS included as condition of planning permission, number of SuDS installed. Appropriate SuDs technology adopted. Need for SuDS maps considered and funding stream sought.	
Active flood awareness campaign.	No of flood awareness campaigns targeting area	
Environment Agency to deliver advice and guidance to site operator and enforce action where necessary.	Assessment of protection measures required to safeguard water quality is carried out.	

Options adequately identified and justified.	Development of Strategy Plan identifying actions to reduce flood risk	
Regional and Strategic Flood Risk Assessments used to guide planning process.	Regional and Strategic Flood Risk Assessments produced as appropriate. No Environment Agency objections to approvals given for development on the floodplain.	
Residual flood risk does not rise with development and re-development opportunities actually achieve risk reduction.	No Environment Agency objections to approvals given for developments in the floodplain,	
Resilience, safe access and evacuation incorporated into planning process.	No Environment Agency objections to approvals given for developments in floodplain	
Reduced consequence of flooding to properties at high flood risk.	Decision taken on whether to extend eligibility for home improvement grants	
Vulnerable services and infrastructure incorporated into Local Authority Emergency Plan.	Level of risk assessed <input type="checkbox"/> <input type="checkbox"/> Necessary resistance/ resilience measures identified. Flood risk included in local authorities emergency plan.	
1000 properties covered by flood warning. Flood Incident Response Plan updated	Flood Warning Area reviewed and updated <input type="checkbox"/> <input type="checkbox"/> Flood Warning take up. Flood incident response updated.	

Appropriate SuDS technology adopted. Need for SuDS maps considered and funding stream sought.	SuDS included as condition of planning permission. Number of SuDS installed. Need for SuDS maps considered and funding stream sought.	
Environment Agency to deliver advice and guidance to site operator and enforce action where necessary.	Level of risk assessed <input type="checkbox"/> <input type="checkbox"/> Necessary protection measures adopted.	
Remedial works for properties on the Register implemented according to Water Company's Asset Management Plan. Information on theoretical sewer flooding risk shared.	Causes of sewer flooding identified <input type="checkbox"/> <input type="checkbox"/> Working Groups established to target areas identified as suffering flooding from multiple sources. Properties at risk of sewer flooding identified and information shared with competent authorities	
Reduced consequence of flooding to properties at high flood risk.	Number of grants awarded by local authority	
Routine maintenance programme manages flood risk through a reduction in blockages and bank failure.	Condition of assets	
Appropriate SuDS technology adopted. Need for SuDS maps considered and funding stream sought.	SuDS included as condition of planning permission. Number of SuDS installed. Appropriate SuDS technology adopted. Need for SuDS maps considered and funding stream sought.	
Flood Warning feasibility assessed. Responding authorities understand risks and take appropriate actions when issued with a flood watch. Active flood awareness campaign.	Assess feasibility of flood warning provision <input type="checkbox"/> <input type="checkbox"/> Flood incident management plan produced for area. Number of flood awareness campaigns targeting the area.	

Reduced consequence of flooding to properties at high flood risk.	Number of grants awarded by local authority	
Regional and Strategic Flood Risk Assessments used to guide planning process.	Regional and Strategic Flood Risk Assessments produced as appropriate.	
Residual flood risk does not rise with development and re-development opportunities actually achieve risk reduction.	No Environment Agency objections to approvals given for developments in the floodplain	
Environment Agency to deliver advice and guidance to site operator and enforce action where necessary.	Water quality (GQA) <input type="checkbox"/> Level of risk assessed. Necessary protection measures adopted.	
Environment Agency to deliver advice and guidance to site operator and enforce action where necessary.	Water quality (GQA) <input type="checkbox"/> Level of risk assessed. Necessary protection measures adopted.	

PLEASE USE PULL-DOWN BOX TO SELECT YEAR	PLEASE USE PULL-DOWN BOX TO SELECT YEAR	LOCKED DATA
Action Start Date	Action End Date	Implementation Timescale
		Ongoing
		Ongoing
		Ongoing
		Short (2008-11)
		Ongoing
		Long (2016 Onwards)
		Medium (2012-16)

		Medium (2012-16)
		Short (2008-11)
		Short (2008-11)
		Ongoing
		Ongoing
		Ongoing
		Short (2008-11)
		Ongoing
		Medium (2012-16)

		Medium (2012-16)
		Ongoing
		Ongoing
		Ongoing
		Ongoing
		Short (2008-11)
		Long (2016 Onwards)

		Ongoing
		Medium (2012-16)
		Short (2008-11)
		Ongoing
		Short (2008-11)
		Long (2016 Onwards)
		Short (2008-11)

		Ongoing
		Ongoing
		Ongoing
		Medium (2012-16)
		Medium (2012-16)

PLEASE USE PULL-DOWN BOX TO REPORT WHETHER THE ACTION HAS NOT STARTED, IS ONGOING OR IS COMPLETE	FREE TEXT BOX. PLEASE DESCRIBE PROGRESS MADE AGAINST THIS ACTION UP TO FINANCIAL YEAR ENDING 09/10	PLEASE USE PULL-DOWN BOX TO REPORT WHETHER YOU HAVE MADE SATISFACTORY PROGRESS AGAINST THIS ACTION UP TO FINANCIAL YEAR ENDING 09/10
IMP_Stage	Year 1 Progress to Date	Year 1 - On Target?





