

Local Flood Risk Management Strategy

Stakeholder Workshop – 17th June



Bath & North East
Somerset Council

Introductions

The LFRMS team

- » Stella Davies – B&NES
- » Jim Collings – B&NES
- » Jim McEwen – B&NES
- » Daniel Parr – B&NES

- » Ali Cotton – CH2M
- » Jemma Bennett – CH2M
- » Claire Andrassy - CH2M

Purpose of today

- » Introduce the role of B&NES as the Lead Local Flood Authority (LLFA)
- » Introduce the B&NES LFRMS - the purpose, context and content
- » Outline our understanding of current/future flood risk
- » Share the LFRMS objectives
- » Explain the LFMRS Action Plan
- » Explain the plans for wider public consultation
- » Give you an opportunity to comment

Timetable for today

- » Presentation: The role of B&NES as LLFA
- » Presentation: Introduction to the LFRMS
- » Questions
- » Presentation: Current and future flood risk
- » Questions
- » Presentation: The LFRMS action plan
- » Break out session
- » Feedback and questions
- » Team available at the end for specific questions

The role of B&NES as Lead Local Flood Authority (LLFA)

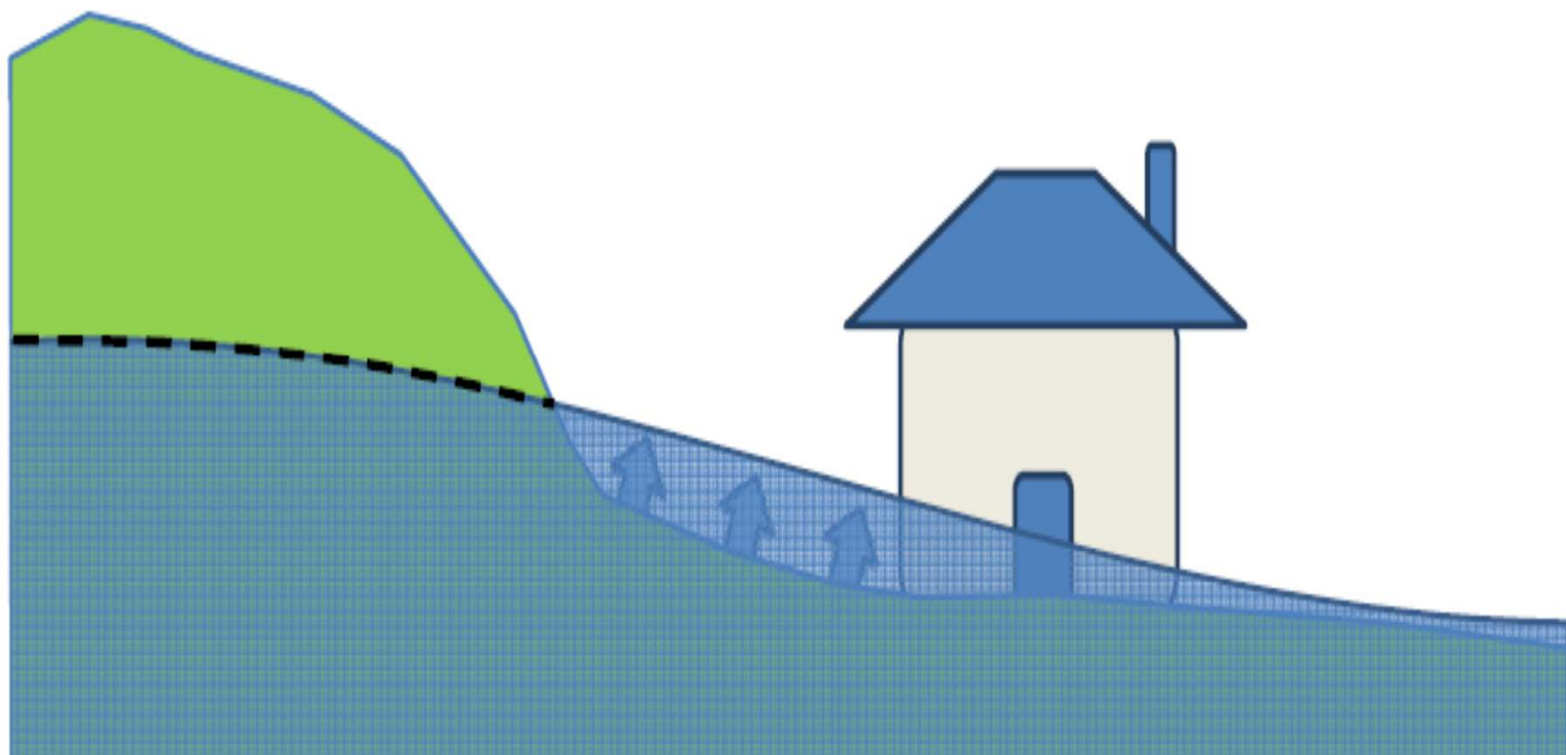
The 2010 Act

- » Following the Flood and Water Management Act 2010 B&NES is now a Lead Local Flood Authority (LLFA)
- » The Council has a responsibility to co-ordinate **local** flood risk management.

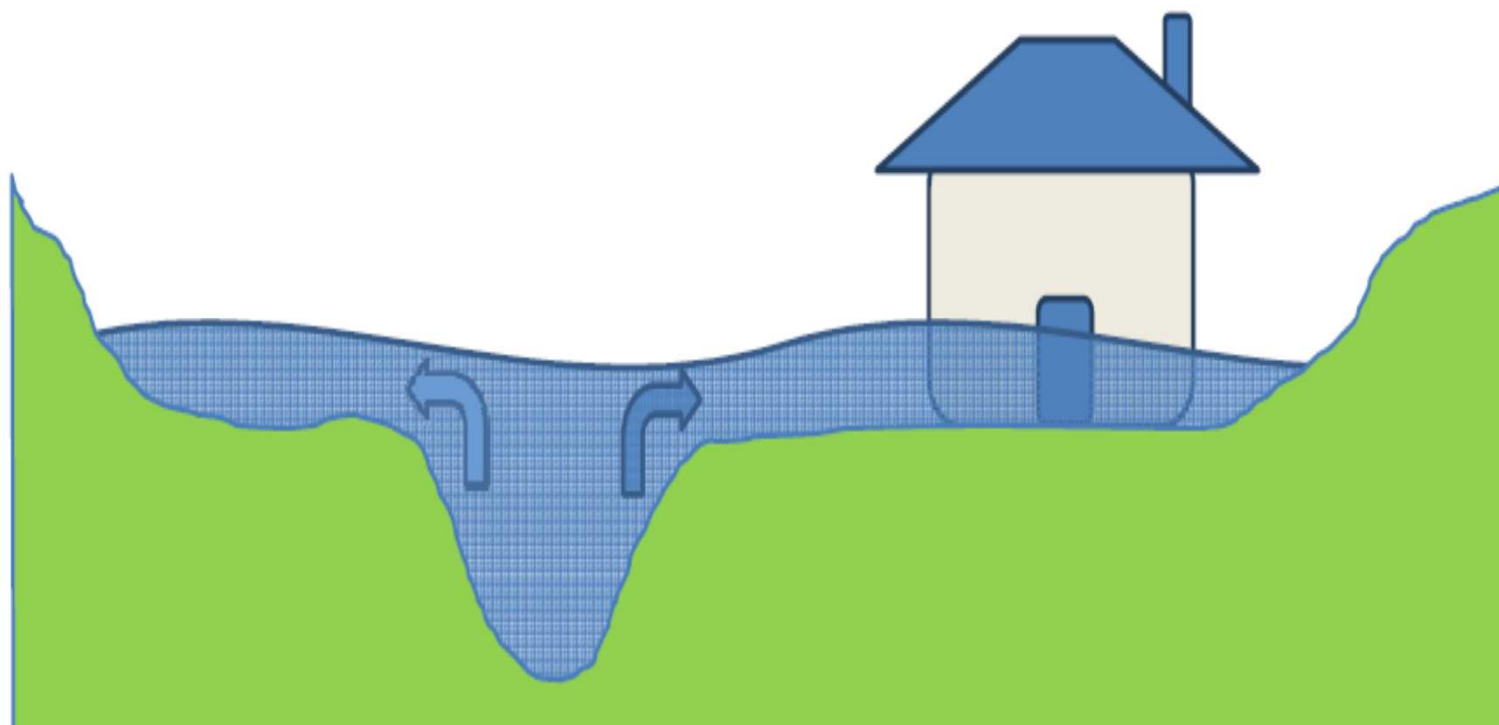
Surface runoff flooding



Groundwater flooding



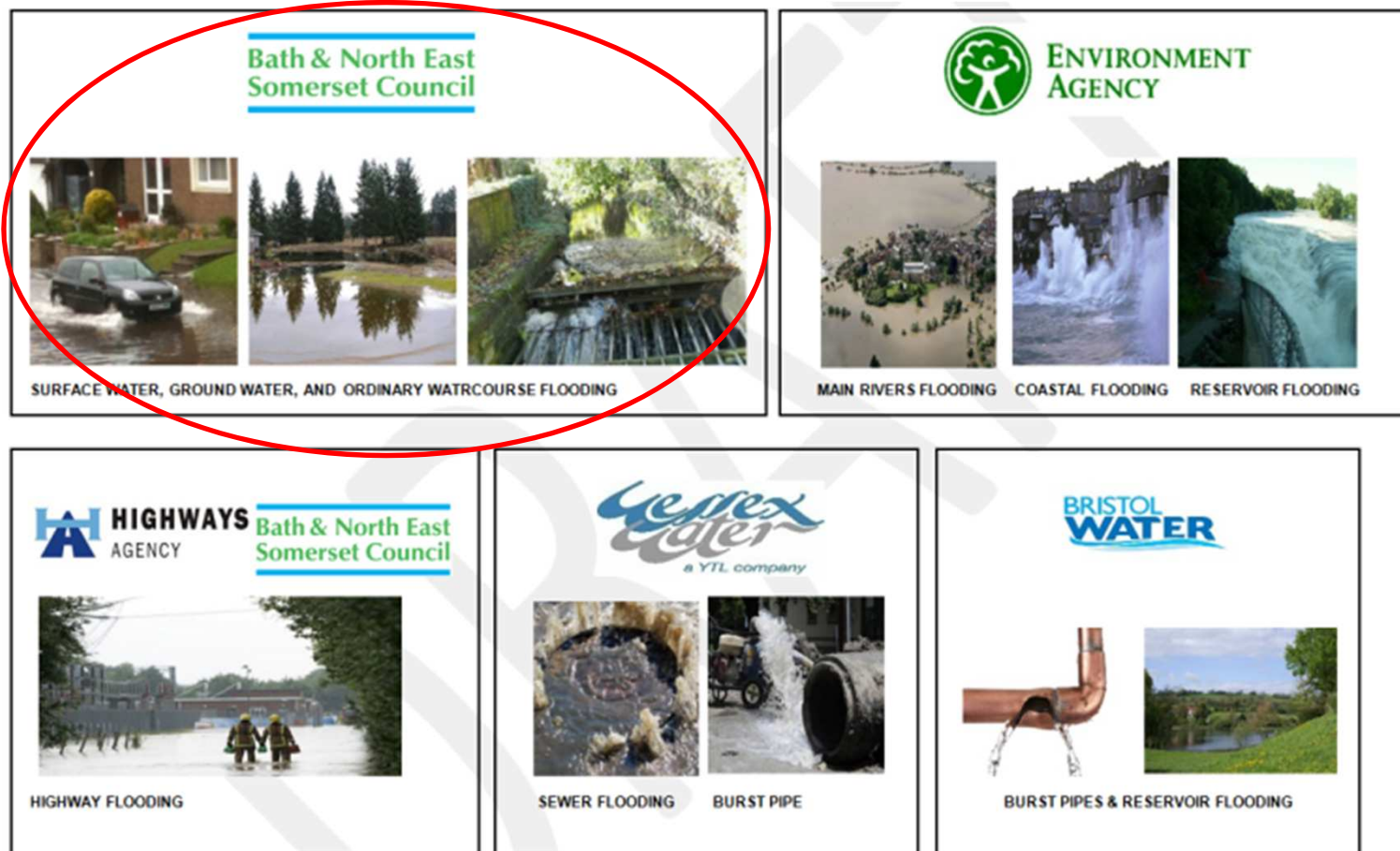
Ordinary watercourse flooding (smaller rivers, streams & ditches)



Other Risk Management Authorities

- » The Environment Agency remains responsible for main river flooding – e.g Avon and Chew
- » Water Companies remain responsible for flooding from sewers

Risk Management Authorities



Bath and North East Somerset – *The place to live, work and visit*

Key B&NES responsibilities as LLFA

- » Development and monitoring of the LFRMS
- » Recording, investigating reporting on flooding
- » Managing an Asset Register
- » Consenting and enforcement of proposed works on ordinary watercourses
- » Designation of assets to protect them from being removed or altered
- » Statutory consultee for surface water drainage for major development

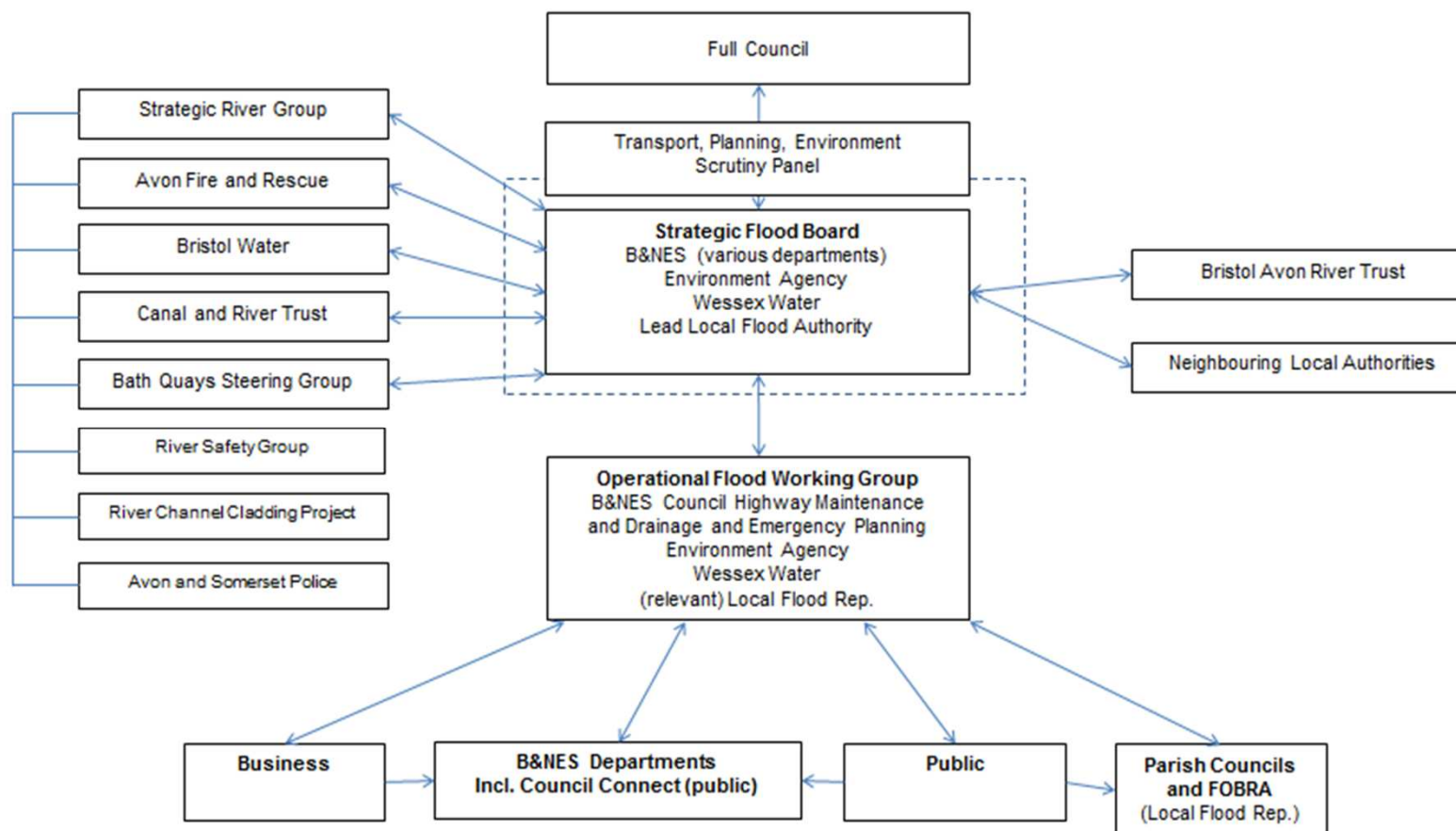
Wider responsibilities

The Council also has wider responsibilities for:

- » Managing drainage from the highway network
- » Acting as the local planning authority
- » Acting as the emergency planning authority



Governance structure



Introduction to the Local Flood Risk Management Strategy (LFRMS)

Purpose of the LFRMS

- » Sets **objectives** for managing local flood risk
- » Clarifies **responsibilities** for flooding
- » Identifies areas vulnerable to **local flood risk**
- » Considers how the Council will **work in partnership** with others
- » Identifies how **communities** can be involved
- » Identifies **actions** the Council will take, in partnership with others, to manage local flood risk

Why are we doing it?

- » Statutory responsibility
- » Important tool to:
 - Raise awareness
 - Clarify responsibilities
 - Encourage partnership working
 - Encourage communities to help themselves
 - Define actions we will take to manage local flood risk



Objectives of the LFRMS

1. Improving our understanding of the risk of flooding from local sources
2. Managing local flood risk
3. Helping local communities, individuals and businesses to better understand and manage their flood risks
4. Preventing inappropriate development that creates or increases flood risk
5. Improving flood preparedness, warning and recovery.

Audience for the LFRMS

- » Risk Management Authorities, including the Council, Environment Agency, Wessex Water and Bristol Water
- » Communities, parish councils, flood action groups & individuals
- » Businesses
- » Voluntary groups (e.g. Canals and Rivers Trust)
- » Developers and consultants



What the LFRMS does include...

- » Confirmation of responsibilities
- » An assessment of local flood risk in B&NES
- » Measures and actions to manage risk
- » Strategy for funding
- » Details on governance and monitoring



What the LFRMS does not include...

- » A flood risk management plan for the city of Bath
- » Detailed analysis of risks and actions from main rivers or sewers (interaction is considered)
- » Detail of flood risks to individual properties or detailed proposals for specific locations
- » A guarantee that funding will be available

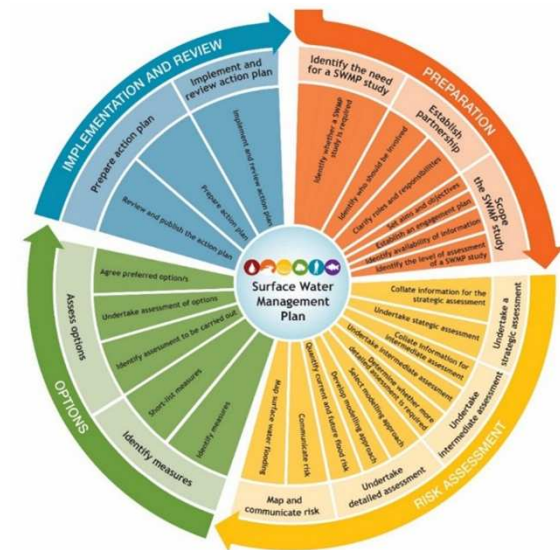


Questions or Clarifications?




Current and Future Flood Risk

Surface Water Management Plan


- » LFRMS must include “the assessment of local flood risk for the purpose of the strategy”
- » This has been addressed through regional SWMP which covers:
 - » Reported flood incidents
 - » Predicted flood risk
 - » How flood risk could change in future
 - » Recommended actions



MAPPING LAYERS

-  B&NES boundary
-  Ordinary Watercourses
-  Main River

FLOOD RISK LAYERS

-  Flood Map for Surface Water

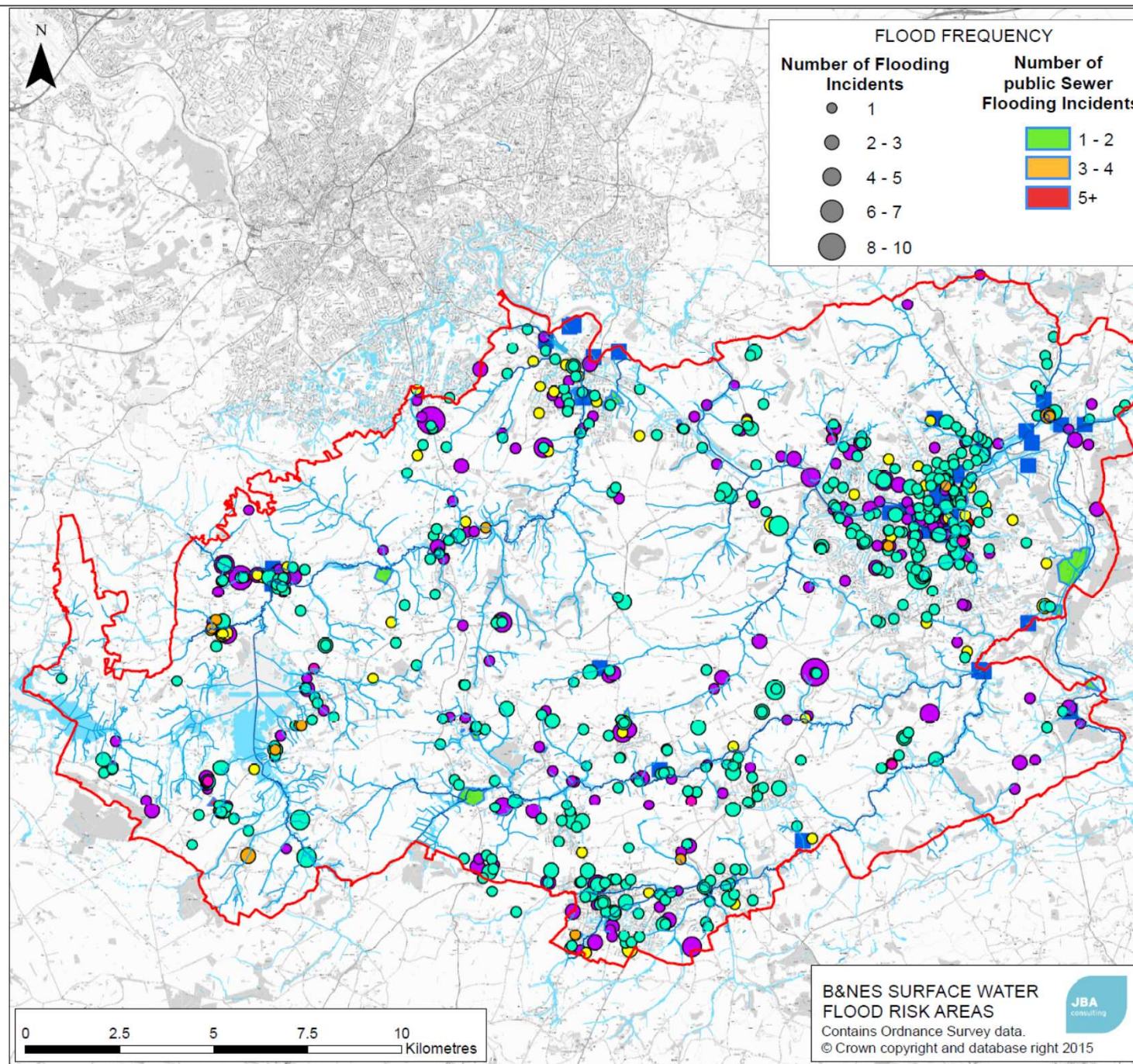
FLOOD HISTORY LAYERS

From 2009 to 2014

-  Fluvial: ordinary watercourse
-  Surface Water: drainage ditch
-  Surface Water: highway gulley
-  Surface Water: pluvial runoff
-  Surface Water: highway culvert
-  Unknown
-  Fluvial Interactions

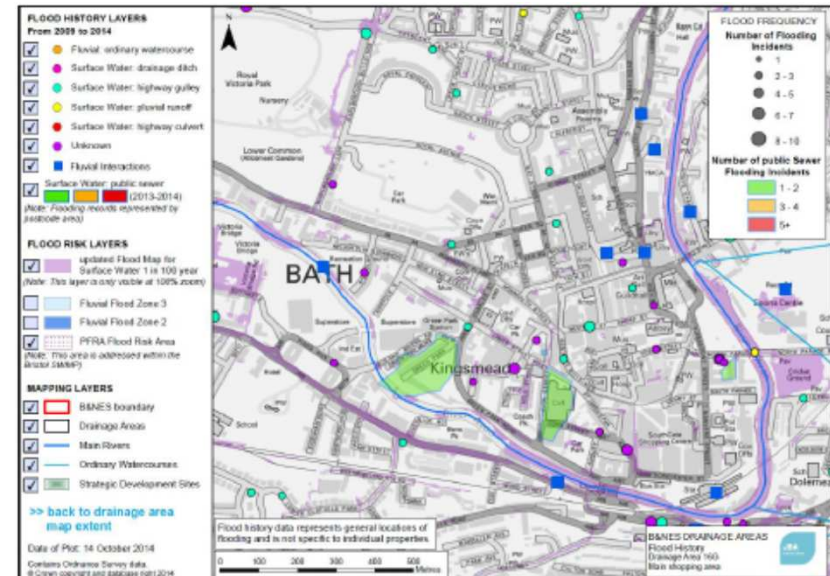
- Surface Water: public sewer
-    (2013-2014)

Date of Plot: 03 June 2015



Surface Water Management Plan

- » Historic flooding data used to identify clusters of flooding ('wet spots')
- » More than 50 wet spots identified in B&NES



Surface Water Management Plan

- » 'Wet spots' verified against predicted surface water flood risk from available mapping
- » No's residential, critical infrastructure and emergency responders at risk from surface water flooding has been assessed

Return Period	Residential Properties	Critical Infrastructure	Emergency Responders
30	302	11	0
100	737	24	0
1000	3039	77	2

The LFRMS Action Plan

Format of the Action Plan

This will be a separate live document.

The LFRMS Action Plan has 2 tiers:

- » Strategic action plan
- » Location specific action plan

These include:

- » Work that is already happening and will continue
- » New actions
- » An emphasis on landowners and communities taking action themselves.

Location specific action plans

- » For each wet-spot identified in the SWMP an action has been identified to mitigate flood risk
 - » 42 wet spots have common actions related to highway/land drainage
 - » 15 wet spots have specific, bespoke actions
- » These actions are currently being finalised in the SWMP, and will be included in the LFRMS for the public consultation
- » Action Plans will be reviewed and updated annually

Objective 1 - Improve our understanding of flooding from local sources

- » 1a. Complete a **regional SWMP**
 - » 1b. Continue to develop an updated **flood reporting** system
 - » 1c. Improve the use of visual tools (e.g. GIS) to **record and analyse** flooding incidents
 - » 1d. Continue to complete **investigations** of flood incidents, where the appropriate criteria is met*
-
- » Grey actions are complete
 - » Asterisks indicate a statutory duty under the Flood and Water Management Act

Objective 2 – Managing local flood risk

- » 2a. With partners develop **long term approaches** to flood risk.
- » 2b. Deliver the actions in the **regional SWMP**.
- » 2c. Continue to develop a **register of assets** which significantly affect local flood risk.*
- » 2d. Continue to assess applications for works on ordinary watercourses, through the **land drainage consent** process.*
- » 2e. Identify catchments where **improved land management** could reduce flood risk and/or improve the environment

Objective 2 – Managing local flood risk

- » 2f. **Designate structures** that effect local flood risk to protect them from alternation or removal.
- » 2g. Identify critical highway drainage assets, in order to undertake **targeted maintenance**.
- » 2h. Continue to respond to issues as **highway authority**.

Objective 3 - Helping local communities, individuals and businesses to better understand and manage their flood risks

- » 3a. Establish clearer routes for **communicating** with communities and businesses about flood risk.
- » **3b. Support communities** to manage their flood risk.
- » **3c. Raise awareness** of land drainage and riparian responsibilities.
- » 3d. Develop a network of **local flood reps** to act as a point of contact in the community on flooding issues.

Objective 4 – Preventing inappropriate development that creates or increases flood risk

- » 4a. Continue to support the development of **planning policy documents**.
- » 4b. Continue to **review planning applications** and make recommendations for surface water drainage and managing flood risk.*
- » 4c. Publish the WoE **SuDS guidance** for developers.
- » 4d. Include **SuDS policies** within the Council's Place Making Plan.
- » Provide **technical advice** in relation to drainage and flood risk of potential developments.

Objective 5 – Improving flood preparedness warning and recovery

- » 5a. Develop a **multi-agency flood plan** for the city of Bath and other high risk areas.
- » 5b. **Communicate** information to communities, businesses and individuals on flood preparedness and recovery.
- » 5c. **Promote uptake** of the Environment Agency's Floodline Warnings Direct service.
- » 5d. Improve warnings and **proactive mitigation** in response to forecast rainfall.

Questions or Clarifications?

Break out session

Break out session

- » Split into 3 groups
- » 30 minutes
- » Review objectives
- » Review strategic action plan and prioritise actions
 - High importance/urgency (1 - 2 years)
 - Medium importance/urgency (2 – 5 years)
 - Ongoing

Vote for the actions you personally think are the most important

Next steps

Public consultation

- » We will evaluate your comments to help us finalise the draft LFRMS documents
- » Public consultation will run early Sept to end October
- » Documents will be placed on the website, in one stop shops and libraries
- » Comments can be made via online or hard copy questionnaire

After the consultation

- » We will review feedback
- » Where practical and possible we will amend the documents, to take account of comments
- » We will ask the Council's Cabinet to approval final versions
- » Publish the final LFRMS (end 2015)

Further comments

Please do send further comments to:

- » Jim McEwen
- » Phone: 01225 39 4409
- » Email: jim_mcewen@bathnes.gov.uk