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Aberdeenshire
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Insch Flood Study and Future Plans

25th February 2019

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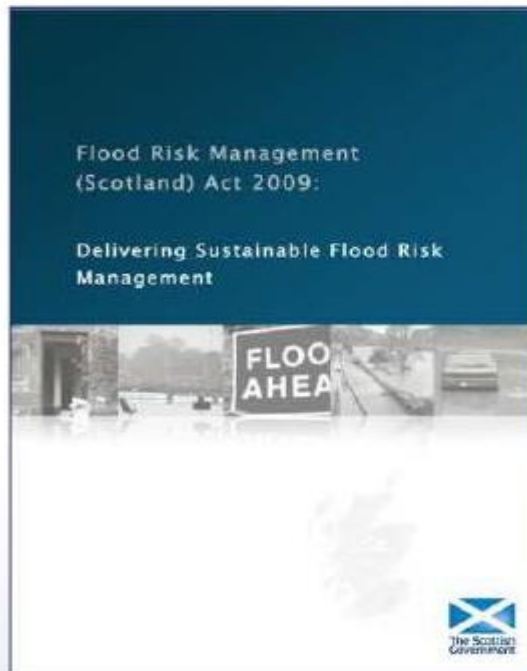
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Introduction

- Bennachie Community Council – Thank you
- FRM Act 2009 – PVAs and NE LPD
- Local Flood Risk Management Plan 2016 - 2022
- Flood Incidents Recording
- Meetings
- Current Position



Flood Risk Management (Scotland) Act 2009



.... a risk-based, sustainable and **plan-led approach** to managing floods - delivered at the **catchment scale**



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Flood Risk Management Strategy

- SEPA published the Flood Risk Management Strategy and was approved by the Environment Minister in December 2015
- A strategy is available for each of the 14 Local Plan Districts in Scotland
- <http://apps.sepa.org.uk/FRMStrategies/>

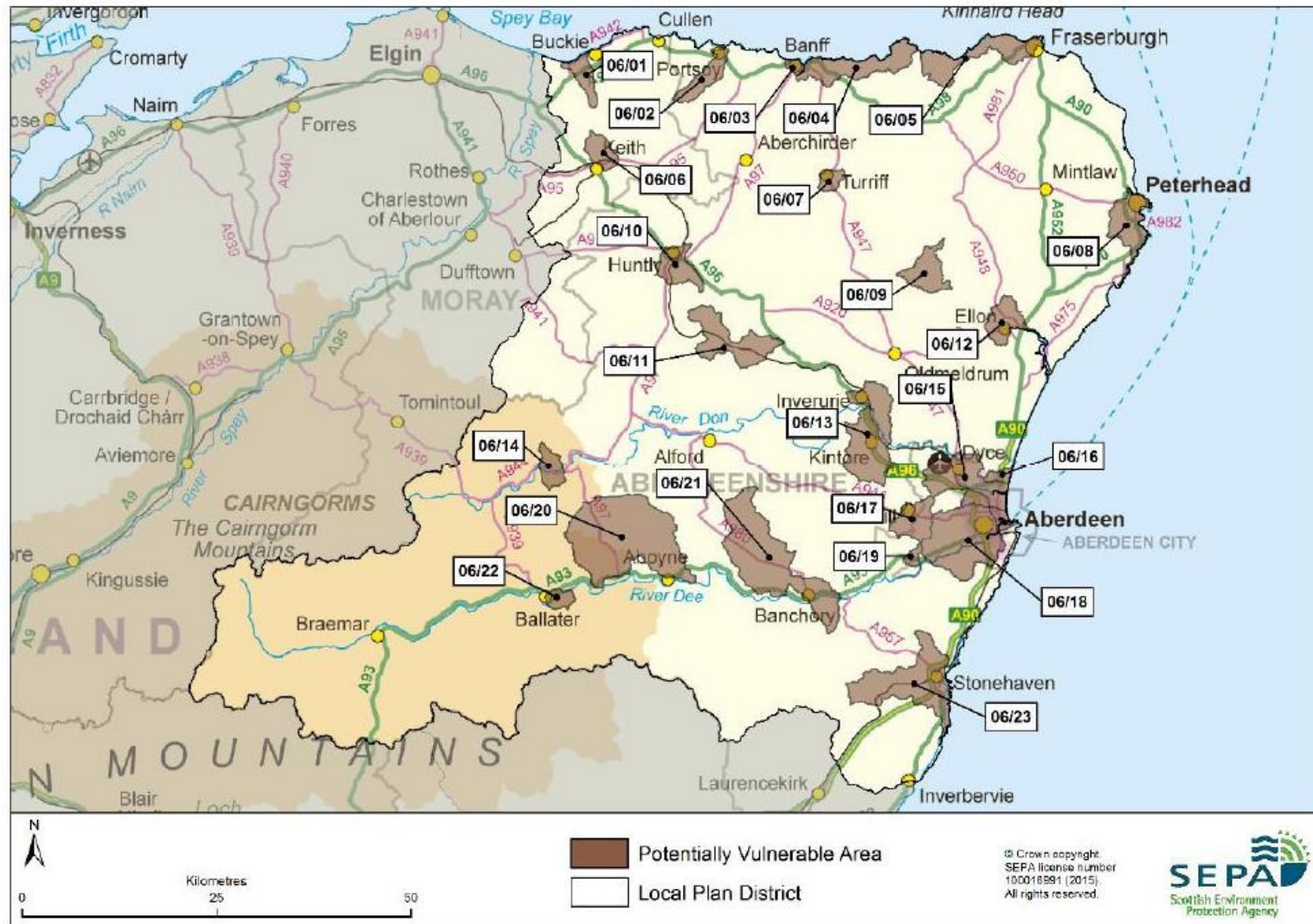


Figure 2: The North East Local Plan District with Potentially Vulnerable Areas identified (Reproduced from North East Flood Risk Management Strategy, SEPA (December 2015))



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Flood Risk Management (Scotland) Act 2009 North East Local Plan District

Local Flood Risk Management Plan 2016 – 2022

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Scottish
Water



CAIRNGORMS
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Abstract

This is the first Local Flood Risk Management Plan for the North East Local Plan District, describing the actions which will contribute to managing the risk of flooding and recovering from any future flood events. The task for local authorities, Scottish Water, the Scottish Environment Protection Agency (SEPA), the Scottish Government and all other responsible authorities and public bodies is to deliver this plan.



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North East Local Flood Risk Management Plan 2016 - 2022

- 6 year plan
- Take forward the objectives and actions set out in Flood Risk Management Strategies
- Provides detail on the funding, timeline of delivery, arrangements and co-ordination of actions



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North East Local Flood Risk Management Plan 2016-2022

[North East Local Flood Risk Management Plan 2016-2022](#)

North East LFRMP Individual PVA's

1. [Portgordon](#)
2. [Portsoy](#)
3. [Banff](#)
4. [Macduff](#)
5. [Fraserburgh and Rosehearty](#)
6. [Newmill](#)
7. [Turriff](#)
8. [Peterhead](#)
9. [Methlick](#)
10. [Huntly](#)
11. [Insch](#)
12. [Ellon](#)
13. [Inverurie and Kintore](#)
14. [Heugh-head](#)
15. [Aberdeen City - Bridge of Don](#)
16. [Aberdeen City - Denmore](#)
17. [Westhill](#)
18. [Aberdeen City - Deeside](#)
19. [Peterculter](#)
20. [Aboyne](#)
21. [Banchory and Torphins](#)
22. [Ballater](#)
23. [Stonehaven](#)



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North East Local Plan District – Local Flood Risk Management Plan
Insch (Potentially Vulnerable Area 06/11)

2.3.11 Insch (Potentially Vulnerable Area 06/11)

Local Plan District	local authority	Main catchment
North East	Aberdeenshire Council	River Don

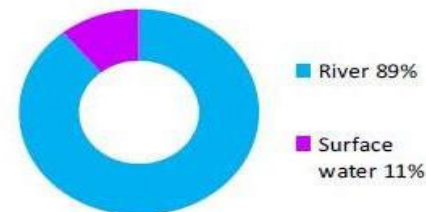
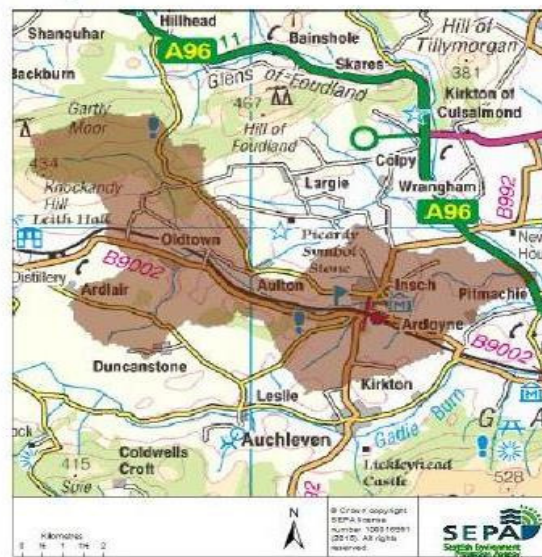
Background

This Potentially Vulnerable Area is based around Insch and Oldtown. It is approximately 40km². The B9002 and B992 and the Aberdeen to Inverness railway line pass through the area.

The main watercourse is The Shevock which is a tributary of the River Urie.

There are approximately 80 residential and 30 non-residential properties at risk of flooding.

The Annual Average Damages are estimated to be £250,000 with the majority caused by river flooding.



Annual Average Damages by flood source



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Actions to manage flooding in Potentially Vulnerable Area 06/11

Actions describe where and how flood risk will be managed. These actions have been set by SEPA and agreed with flood risk management authorities following consultation. Selection of actions to deliver the agreed objectives was based on a detailed assessment and comparison of economic, social and environmental criteria. The actions shaded and then described below have been selected as the most appropriate for Insch Potentially Vulnerable Area.

Selected actions					
Flood protection scheme/works	Natural flood management works	New flood warning	Community flood action groups	Property level protection scheme	Site protection plans
Flood protection study	Natural flood management study	Maintain flood warning	Awareness raising	Surface water plan/study	Emergency plans/response
Maintain flood protection scheme	Strategic mapping and modelling	Flood forecasting	Self Help	Maintenance	Planning policies



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Action (ID):	FLOOD PROTECTION STUDY (6011010005)		
Objective (ID):	Reduce flood risk in <u>Insch</u> from the Valentine Burn (601102) Reduce flood risk in <u>Insch</u> from The <u>Shevock</u> (601101)		
Delivery lead:	Aberdeenshire Council		
Priority:	National:	Within local authority:	
	61 of 168	3 of 12	
Status:	Scheduled	Indicative delivery:	2016-2021
Description:			
<p>Aberdeenshire Council will undertake a flood protection study to evaluate options for flood management to reduce the risk of flooding in <u>Insch</u> from the <u>Shevock</u> and Valentine Burn. It is currently estimated that the study will be completed by Summer 2019.</p> <p>The study has the potential to benefit 52 residential properties, 20 non-residential properties, sections of road network and a healthcare facility at risk of flooding in this location, with potential damages avoided of up to £6.3 million. A reduction in flood risk would have a positive benefit to the health and wellbeing of the community and socially vulnerable people located within the study area and may also contribute to enhanced biodiversity and economic activity.</p> <p>The study will take a sustainable and integrated approach by coordinating with the river basin management plan. It will be undertaken with due consideration to internationally, nationally and locally designated sites including listed buildings. It will also explore opportunities for enhancing biodiversity and for promoting economic activity and social wellbeing.</p> <p>Aberdeenshire Council will coordinate with SEPA, Scottish Water, SNH, The Crown Estate, landowners and community groups as well as other relevant agencies and organisations. Aberdeenshire Council will undertake the study through the Local Planning District (LPD) partnership and / or through separate agreements.</p>			



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Potential impacts	
Economic:	The study could benefit 52 residential and 20 non-residential properties at risk of flooding in this location, with potential damages avoided of up to £6.3 million.
Social:	The development of flood protection works following the study would potentially reduce risk to 141 people. A reduction in flood risk would have a positive benefit to the health and wellbeing of the community and socially vulnerable people. One healthcare facility would benefit from reduced likelihood of flooding if flood protection works provided protection to risk floods. Natural flood management actions can restore and enhance natural environments and create opportunities for recreation and tourism. Negative impacts through disturbance to the local community during the construction phase should be considered.
Environmental:	Flood protection studies should consider the positive and negative impacts of proposed actions on the ecological quality of the environment. Natural flood management actions can have a positive impact by restoring and enhancing natural habitats. Opportunities to mitigate any environmental impacts may include design and timing of works. The flood protection study should consider how to avoid or minimise potential negative effects such as loss or disturbance of sediment.

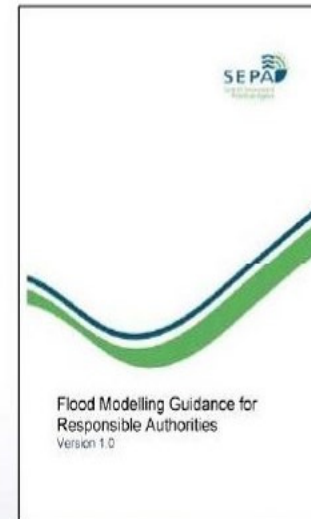


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Insch Flood Protection Study

- The flood study will consist:
 - Data collection and surveys
 - Hydrological analysis
 - Detailed modelling
 - Recommended actions to reduce flood risk
 - Economic appraisal (benefit/cost analysis)





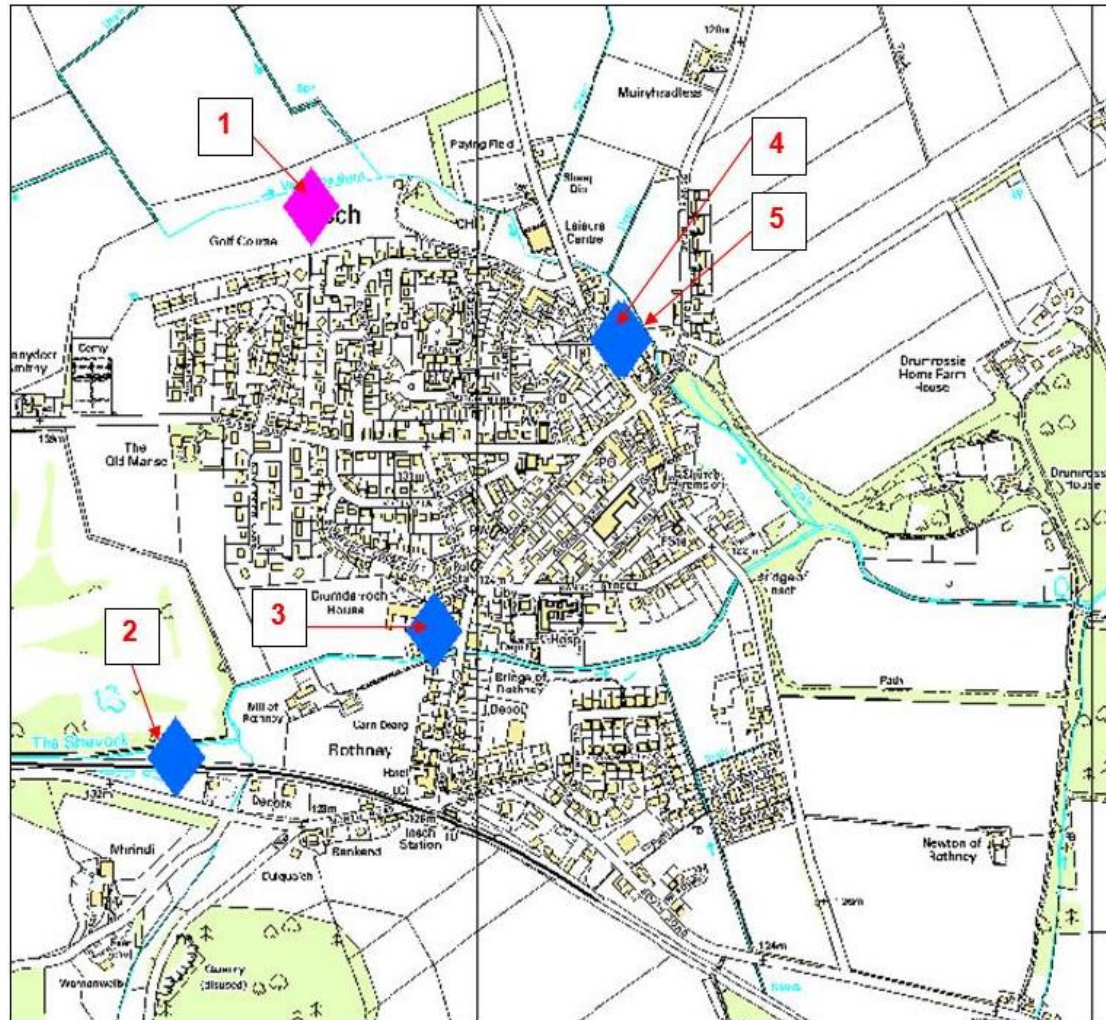
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Possible recommendations from Study

- Possible actions to reduce flood risk:
 - Direct defences
 - Upstream storage
 - Natural flood management
 - Property level protection
- Any formal Flood Protection Scheme would be taken forward in the next Flood Risk Management Planning Cycle 2022 – 2027.



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Flooding Incidents in Inverurie

1. 08/04 Flooding of commercial property. Run off from heavy rain. Road drains unable to cope.
2. 06/04 Flooding of residential property. Run off from heavy rain on car park and adjacent fields. Inability of drainage to cope meant water could not outfall.
3. 11/02 Flooding of nursing home. Drumdarroch nursing home flooded and residents evacuated. Sandbags supplied. Domestic property on Commerce Street flooded.
4. 05/03 Flooding nearly into a residential property. Property had been flooded in Oct 02
5. 11/02 Blocked culvert beside Leisure Centre causing water to back up, overtopped and flowed down road. Flooding to properties



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Drumdarroch
House – 10/17
Mill Road





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Valentine Burn
October 2017
Drumrossie St.
B992





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Meetings and Current Position

- On-going inspections of culverts and bridges
- Consultant Site Visit – 18th Oct. 2017
- Flood Study - Public Engagement Event 1 – 25th February 2019
- Stakeholder Meeting – Spring 2019
- Flood Study - Public Engagement Event 2 – Summer 2019
- Flood Study – Completion – Late Summer 2019



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Locations of current Sandbag Deployment Points

- Roads Depot (outside) Harlaw Road, Inverurie



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C.C. Storage container for emergency response

- 20ft container at Ballater Primary School
- 250m of HESCO Jackbox barrier
- 3 pallets of new, heavy-duty pre-filled polypropylene sandbags





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Promoting Resilience - Property-Level Protection

- Flood protection products to homes and businesses
- Flood gates, vent guards and FloodSaxs
- Reduced reliance on council supplied sandbags





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Thank you

Questions?

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