Flood Risk Management (Scotland) Act 2009:

INTERIM REPORT Local Flood Risk Management Plan

North East Local Plan District





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In conjunction with;













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1. Infographics (still to be added)

2. Foreword

This INTERIM REPORT to the Local Flood Risk Management Plan shows the progress made in delivering the actions to avoid and reduce the risk of flooding, and prepare and protect ourselves and our communities across the local plan district.

"The impacts of flooding experienced by individuals, communities and businesses can be devastating and long lasting. It is vital that we continue to reduce the risk of any such future events and improve the area's ability to manage and recover from any events which do occur."

(North East Local Plan District - Local Flood Risk Management Plan, June 2016)

The publication of the INTERIM REPORT shows that the coordinated and collaborative efforts of public bodies can be brought together to deliver sustainable outcomes.

The INTERIM REPORT is published by Aberdeenshire Council on behalf of a partnership comprising three local authorities: Aberdeenshire Council, Aberdeen City Council and The Moray Council together with SEPA and the following Responsible Authorities: Scottish Water; SEPA; Forestry Commission Scotland; and Cairngorms National Park Authority.

Individuals are the first line of defence against flooding and have responsibilities to protect themselves from flooding. Through self-help and property level protection, awareness raising and signing up to Floodline, individuals, businesses and communities can and have made key contributions to the delivery of the actions in the Plan, which are detailed in this INTERIM REPORT.

Since the publication of the Plan in June 2016, public sector finances in Scotland have continued to be under considerable pressure. This places an even greater responsibility on SEPA, local authorities and Scottish Water and other responsible authorities to deliver their flood risk management responsibilities and, in particular the actions in the Plan, to manage flooding in a sustainable way.

SEPA, local authorities and Scottish Water and other responsible authorities will continue to work collaboratively to implement the actions in the Plan to its conclusion in June 2022.

May be signed by convener or officer as appropriate to LPD governance and preference [compare with how LFRMP was published].

May include a Scottish Minister too.

3. Background

The INTERIM REPORT is a legal requirement of the Flood Risk Management (Scotland) Act 2009 (Section 37). The INTERIM REPORT is required to be published between July 2018 and June 2019. The INTERIM REPORT includes the conclusions of a review of the North East Local Plan District - Local Flood Risk Management Plan (the 'Plan'), published in June 2016 and includes information on the progress that has been made towards implementing the actions identified in the Plan.

Further details on flood risk management responsibilities in Scotland and the legal requirement for the publication of this INTERIM REPORT can be found in Appendix 1.

A copy of the North East Local Plan District Local Flood Risk Management Plan can be found at the follow link.

https://www.aberdeenshire.gov.uk/media/17174/north-east-local-flood-risk-management-plan-2016-2022-web-version.pdf

4. Review of the plan

This section sets out the conclusions of the review of the plan and a summary of progress of actions detailed in North East Local Plan District - Local Flood Risk Management Plan. It draws upon the assessment of progress of actions presented in the subsequent sections.

4.1 Key progress in reducing the impacts of flooding since publication

The following key progress has been made on the actions detailed in the NE LPD Flood Risk Management Plan:-

Following a slow start due to large scale flood events in winter 2015-16, steady progress is now being made on the identified actions across the North East Local Plan District.

Overall, 198 actions have a green status, 24 amber and 2 number of actions have a red status. Specifically the following large scale actions have been taken forward:-

- Aberdeenshire Council has completed a Flood Protection Scheme at Huntly to protect properties from both the River Deveron and Meadow Burn. Work was completed in October 2017.
- 2. Aberdeenshire Council have now appointed a contractor to begin work on the Stonehaven Flood Protection Scheme. Work is due begin on site in early 2019.
- 3. Aberdeen City Council has completed two flood studies into the flood risk at Footdee and Inchgarth Road.
- 4. Aberdeen City Council has made progress creating a flood model for the Paddock and Millside areas of Peterculter.
- 5. Moray Council has completed a Flood Protection Scheme for Newmill. Work was completed in December 2016 and now operational.
- 6. Moray Council has competed a flood protection study for Portgordon. The findings of which are to be considered in Cycle 2 NELPD Flood Risk Management Plan (2022 2028).
- 7. Many Strategic studies are progressing across NE Local Plan District (LPD 6). The main ones cover the following areas:
 - Aberdeen Integrated Catchment Study lead by Scottish Water
 - Mapping and Modelling of the Upper Don Area from Pitcaple to Kintore led by SEPA

- Mapping and Modelling of the Aberdeenshire and Angus coastline to be completed by SEPA in the first half of 2019.
- The requirements for updating the coastal and surface water maps has changed significantly since the Local Flood Risk Management Plan was published in June 2016. In the case of coastal mapping, SEPA is now updating coastal flood maps across the whole of northeast Scotland rather than in a few isolated sections of coast, including the Banff to Lossiemouth coast in this Local Plan District. It is planned that the improvements will be completed for in 2019. For surface water flooding, the underlying design rainfall data used to produce the flood maps has changed as a result of more data being collected and a better understanding of rainfall across Scotland. As such it is no longer considered appropriate to deliver updated flood maps for the relatively small areas identified in the Local flood Risk Management Plan. Instead SEPA will deliver a national update of this product. Due to the increase in scope it is expected that the national updates to the surface water maps will be completed early in the next cycle.
- 8. A number of flood protection studies and surface water plans are progressing across the NELPD district more details of these studies are contained within the report.

4.2 How current is the Plan?

The Plan was published in June 2016 supplementing the Flood Risk Management Strategy published by SEPA in December 2015. The Plan details how the actions identified in the Strategy were to be implemented over the period 2016 to 2022. The Strategy and Plan are based on the National Flood Risk Assessment and the designated Potentially Vulnerable Areas at that time.

Since the identification of the actions in the Plan, there have and continue to be advancements in our knowledge and development of assessment techniques. These include the publication by SEPA of a new National Flood Risk Assessment and revised designation of Potentially Vulnerable Areas in December 2018. These advancements may inform the delivery of the actions in this Plan and will be used in the development of future Strategies and Plans.

It is therefore considered that the Plan on which this is the INTERIM REPORT is current, albeit the planned delivery and actual delivery of actions has changed for some actions as detailed in the 'Assessment of the progress' section of this INTERIM REPORT.

4.3 Significant challenges

Based on a review of the assessment of the progress of actions detailed in this INTERIM REPORT, the following key challenges and issues have been identified that have or may have an impact on the delivery of actions to manage flood risk. Arrangements planned to deliver the remaining actions are described below. Where these challenges have had an impact on the delivery of specific actions or actions across an LPD, this is detailed in the 'Assessment of the progress of actions'.

However, the overall delivery of actions in the Plan has not been impacted by funding but resource issues have arisen for some PVAs.

4.3.1 Significant weather events

The North East Local Plan District was adversely affected by significant weather events in Dec 2015 (Storm Frank) and January 2016, which had knock on impacts on the delivery of actions in the Plan from June 2016 onwards. For example, all Local Authorities and partnering agencies (SEPA) resources were deployed to dealing with the emergency events at that time; as well as the follow up activities and necessary works, which were still being delivered into financial year 2017/18. This has caused consequential delays in the planned delivery of actions, as staff resources that would have been delivering planned actions, have been delivering emergent actions.

Arrangements planned to deliver the remaining actions affected by significant weather events are described below and detailed in the 'Assessment of the progress' section of this INTERIM REPORT.

4.3.2 Funding

'The lists of priortised actions in the Plan to meet agreed goals and objectives in the first six-year cycle considered what would be achievable assuming a similar level of funding for flood risk management activities from The Scottish Government. However, given the timing of spending reviews and annualised financial settlements for local government, the actual ability to deliver all the actions set in the Strategies in December 2015 and detailed in this Plan will be dependent on the availability of the necessary funding in each year of the six year Plan', (North East Local plan District - Local Flood Risk Management Plan, June 2016).

The level of funding from Scottish Government for flood risk activities for the first three years of the six year Plan has been at the levels anticipated. As per the principals of financial settlements for local government, the funding is not 'ring fenced' and local authorities may have allocated these funds to the delivery of other priorities. Further information on this matter can be provided by individual authorities.

4.3.3 Allocation of Resources

The delivery of flood risk management actions must be seen in the context of challenging local government finances and increased expectation and demand for public services. This applies to all of the responsible authorities and SEPA.

The availability and retention of skilled staff to deliver flood risk actions has been a limiting factor in some areas. This has caused consequential delays in the planned delivery of actions.

Arrangements planned to deliver the remaining actions affected by allocation of resource issues are described below and detailed in the 'Assessment of the progress' section of this INTERIM REPORT.

4.4 Prioritisation of actions for next plan cycle

Many actions contained in the plan are to undertake studies that will assess the need for further actions to be implemented in future plans. For example, a flood protection study may recommend that a community flood action group is set up to increase resilience to flooding, or that flood defences are constructed. This introduces a deadline date by when such actions need to be detailed and submitted by responsible authorities, for consideration as actions; in the next plans from 2022-28. The deadline date for submission of these actions to SEPA has been set as December 2019. The actions submitted will then be assessed and prioritised against the flood risk objectives, and consulted upon ahead of the publication of the next cycle of Flood Risk Management Strategies in December 2021 and Local Flood Risk Management Plans in June 2022. Any actions that miss this deadline may therefore be delayed for consideration in the next cycle from 2028-34.

4.5 Arrangements planned to deliver the remaining actions
In general all actions in the Plan will continue to be delivered over the remainder of the 2016 to
2022 period. This will be as per the published Plan, subject to revisions in delivery dates as detailed
in the 'Assessment of the progress' section of this INTERIM REPORT.

In general, all of the actions in the Plan will be delivered by June 2022, however where specific measures are required to address a delay and ensure an action is completed then this is described against the relevant action. In addition, where there is a risk that remaining actions will not be delivered by the end of the Plan, contingencies have been considered, which are described against the relevant action

5. Next steps

A Final Report on the plan will be published in between July 2021 and June 2022. This will include:-

- an updated assessment of the progress made towards implementing the current actions;
- a summary of the current measures which were not implemented, with reasons for their non-implementation, and;
- a description of any other measures implemented since the plan was finalised which the lead authority considers have contributed to the achievement of the flood risk objectives.

In the meantime, to find out more about how flood risk is being managed please refer to your Local Authority website:-

https://www.aberdeenshire.gov.uk/environment/flooding/ https://www.aberdeencity.gov.uk/services/environment/information-about-flooding http://www.moray.gov.uk/flooding

6. Conclusions

Since the publication of the North East Local Plan District – Local Flood Risk Management Plan in June 2016, good progress has been made over the initial three years of the first cycle. This has clearly highlighted the benefits that can be achieved by partnership working in flood risk management.

Flood studies have generally progressed as programmed, and surface water studies have commenced in some areas utilising detailed hydraulic modelling outputs from Scottish Water to increase certainty in the predictions of surface water flooding. Detailed consideration of flood sources and pathways has allowed an improved understanding of the impacts of flooding, enabling improved prioritisation of measures.

The requirement for sustainable flood measures to be prioritised will drive environmental improvements in conjunction with flood protection, achieving enhancements to communities across the North East district.

Please note that the responsible authorities involved in delivering the actions for the North East Local Plan District may also be involved in delivering actions in other local plan districts.

7. Assessment of progress

This section sets out an assessment of the progress towards implementing the actions set out in the North East Local Plan District – Local Flood Risk Management Plan.

There are actions that apply across the whole of the NELPD and actions that are specific to each of the 23 Potentially Vulnerable Areas (as defined under Section 13 of the Act) in the NE LPD, which are shown below in Figure 1.



Figure 1: The North East Local Plan District with Potentially Vulnerable Areas identified Reproduced from North East Local Plan District Flood Risk Management Strategy, SEPA (December 2015)

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The actions that apply to individual PVA across the NE LPD are shown overleaf in Figure 2. The summary of the assessment of progress is shown using the traffic light system, where each item is marked as Red, Amber or Green (RAG) and where:

- GREEN Action has been delivered is on programme and within budget;
- AMBER Action is behind programme and/or over budget, but the key dates are still
 anticipated to be met.
- **RED** Action is behind programme and/or over budget, with key dates unlikely to be met and/or the outputs unlikely to achieve what was anticipated by the LFRMP.

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Selfhelp	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/01				G		G	А		G	G			А	G	G		G	G
Portgordon																		
06/02 Portsoy							G			G			G	G	G		G	G
06/03 Banff							Α		G	G			G	G	G		G	G
06/04 Macduff							А		G	G			G	G	G		G	G
06/05 Fraserburgh						A	R		G	G			G	G	G		G	G
and Rosehearty	(6		6	•	6		(6	6		6	6
06/06 Newmill 06/07 Turriff	G					G	G	G	G G	G		G	A	G	G		G	G
			G			Α	G G		G	G G			G G	G G	G G		G G	G G
06/08 Peterhead			G			А	G			G			G	G	G		G	G
06/09 Methlick										G			G	G	G		G	G
06/10 Huntly	G					Α	G	G	G	G			G	G	G		G	G
06/11 Insch)			G		71	R))	G			G	G	G		G	G
06/12 Ellon				G			G			G			G	G	G		G	G
06/13 Inverurie and Kintore				G		А	A		G	G			G	G	G		G	G
06/14 Heugh- head										G			G	G	G	А	G	G
06/15 Bridge of Don			G	А		A	А		G	G	G		G	G	G		G	G
06/16				G		Α	G	G		G	G		G	G	G		G	G
Denmore																		
06/17 Westhill						Α	G			G			G	G	G		G	G
06/18 Deeside			G	А		А	G	G	G	G	G	Α	G	G	G		G	G
06/19 Peterculter	А				G	А	G			G	G		G	G	G		G	G
06/20 Aboyne						Α	G		G	G			G	G	G		G	G
06/21 Banchory and Torphins							G		G	G			G	G	G		G	G
06/22 Ballater				G			G		G	G		G	G	G	G		G	G
06/23 Stonehaven	А		G	G		А	G	G	G	G		G	G	G	G		G	G

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Figure 2: Summary of progress of actions to manage flood risk in the Potentially Vulnerable Areas of the North East Local Plan District

7.1 Progress with LPD-wide Actions

This section sets out an assessment of the progress towards implementing general actions that apply across the whole of the North East LPD over all years of the six-year Plan, which is presented in Figure 3 overleaf.

Action	Status	Description	Delivery Lead	Interim progress	Planned actions to complete
Flood forecasting	G	Actions taken by SEPA in conjunction with other agencies to provide predictive flood information which enables people to take action to reduce the impact of flooding on their property.	SEPA	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
Self help	G	Everyone is responsible for protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and	ALL	Numerous actions have been undertaken by Responsible Authorities to raise awareness and educate about Self Help actions. Further details on specific PVA related events can be found in	Local authorities, SEPA, Scottish water and other organisations will provide support to communities on request

		disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities Initiatives, and ensuring that properties and businesses are insured against flood damage.		the PVA update sheet.	
Awareness raising	G	Actions taken by SEPA and Local Authorities in NE LPD to raise awareness of flood risk.	ALL	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

				(e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scotlish Flood Forum and worked closely with UK agencies to develop joint flooding information. Local authorities have undertaken activities to raise awareness and have held public exhibitions/consultations where studies or works are planned.	
Maintenance	G	Actions taken by Local Authorities and Scottish Water to undertake clearance and repair in relation to waterbodies and maintenance of other water related assets.	LA and Scottish Water	Local Authorities have inspected waterbodies and identify clearance and repair works to reduce flood risk. Local Authorities inspect flood protection schemes and provide maintenance works where deemed necessary. Scottish Water continue to undertake risk based inspections, maintenance and repair on the public sewer network.	Current actions to continue.
Emergency plans/response	G	Actions taken by Local Authorities and SEPA to provide an emergency response to flooding.	LA, Scottish Water and SEPA (Category 1 and 2	The Responsible Authorities under the Civil Contingencies Act 2004 have acted in response to weather warnings received and use best available information	Current actions to continue.

			Responders)	from a number of sources to co- ordinate regional and local actions. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	
Planning Policy	G	Actions by SEPA and the Local Authorities to ensure that Flood Risk information is considered in Development Plans and Local Development decisions.	SEPA and LA	SEPA exercises its planning functions with a view to reducing overall flood risk. We effectively contribute to the delivery of sustainable flood risk management and we support the delivery of FRM Strategies and local FRM Plans. In line with the management actions that accord with national planning policies we will object to development at medium to high risk of flooding when it is contrary to the risk framework set out in Scottish Planning Policy. We will also continue to engage at the offset of the development plan process and encourage planning authorities to undertake a Strategic Flood Risk Assessment to inform their spatial strategy. Local Authorities, as Planning Authority, ensure that any new developments satisfy relevant guidance and policies on flooding and drainage.	Current actions to continue and be further developed, to prioritise sustainable flood risk management within the Local Development Plans and local development control decisions. Further discussion/engagement required with Planning colleagues.

Figure 3: Progress with LPD-wide Actions for the North East Local Plan District

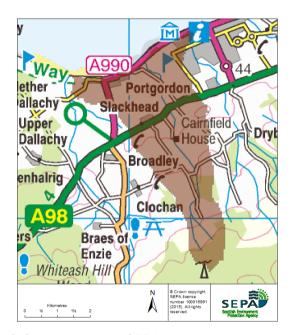
7.2 Progress with PVA-specific Actions

This section sets out an assessment of the progress towards implementing actions that are specific to each of the 23 no. PVA as shown in Figure 2. Assessments of the progress of actions within each PVA are presented.

In general - there are no specific actions identified for 'property level protection scheme' and 'site protection plans' actions. Consideration of property level protection schemes will be included in the 'flood protection study', 'surface water plan/study' and/or 'emergency plans/response' actions. Site protection plans will be identified through these same 'study' actions and also 'planning policies' action.

Portgordon (Potentially Vulnerable Area 06/01)

Local Plan District	Local authority	Main catchment
North East	Moray Council	Banff Coast



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Summary of Progress for Portgordon

There are fewer than 10 residential and non-residential properties at risk of flooding in this PVA. The Annual Average Damages are approximately £8,500. The majority of these damages are attributed to surface water flooding, however, it is recognised that wave overtopping causes flooding to a number of properties in Portgordon and Buckie.

Since the NELFRMP was published in May 2016, a flood protection study has been undertaken for Portgordon. The findings of this study will be taken forward for consideration in the NELFRMP for Cycle 2. A high level Surface Water Management Plan has been undertaken for Moray, in which Buckie is a priority area. Any actions to mitigate flooding identified in this Plan will be taken forward for consideration in Cycle 2.

Overview of actions to manage flooding in Portgordon

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/01				G		G	Α		G	G			Α	G	G		G	G

Summary of progress of actions to manage flood risk in Portgordon (PVA 06/01)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Progress in Delivery, including key deliverables and dates	Revised dates and planned actions to complete / address delay
Flood protection study	G	Flood study for Portgordon to investigate coastal flooding, including wave action.	Moray Council	2019	The flood study for Portgordon is complete.	No further action required.
Surface water plan/study	G	Surface Water Management Plan for the Portgordon/Buckie area will be developed by Moray Council.	Moray Council	2019	A high level Surface Water Management Plan was completed in 2017.	Additional investigation will be undertaken in identified hotspots.
Strategic mapping and modelling	Α	SEPA will be seeking to develop the flood hazard mapping in the Banff to Lossiemouth area to improve understanding of the coastal flood risk.	SEPA	2018	Following the establishment of a coastal flood hazard map development framework and characterisation of the coastline, several projects are currently underway at this	It is intended to complete this action in 2019.

					location:	
				2010	 Development of a national coastal joint probability dataset; Update to the UK design extreme sea level dataset; Coastal modelling and mapping project for northeast Scotland. These projects will collectively enable the revision of flood mapping for the coastline from Scrabster to Arbroath including the Orkney Islands. 	
Strategic mapping and modelling	G	Scottish Water will undertake modelling of the Buckie sewer catchment.	Scottish Water	2019	The Scottish Water assessment of flood risk within the sewer catchment has been completed. The assessment helps to improve knowledge and understanding of surface water flood risk	Not Applicable.
Maintain flood warning	G	SEPA will Continue to maintain the 'Portgordon to Cullen' flood warning area which is part of the Moray Firth coastal flood warning scheme	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service.
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance	SEPA	Ongoing	SEPA continues to provide flood forecasting.	

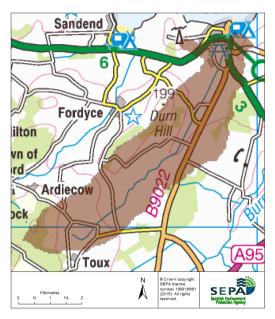
		statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.				
Self help	A	Everyone is responsible for protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	Property owners	Ongoing	SEPA continues to assist members of the public to sign up to Floodline. Moray Council has not received any requests for assistance from property owners in this area.	
Awareness raising	G	Moray Council will seek opportunities to raise awareness of flood risk and actions that prepare individuals, homes and businesses as described in the Act.	Responsible Authorities	Ongoing	SEPA's principle awareness raising approaches have been through: 1. Direct campaigning and general awareness raising. 2. Education and tools. 3. Partnership delivery development. Moray Council has consulted with the public in relation to the Portgordon Flood Protection Study.	SEPA will continue to raise awareness of flood risk through direct campaigning, general awareness raising, developing education and engagement tools, creating new partnerships and improving its flood forecasting and warning services (e.g. Scottish Flood Forecasting Service and Floodline). This will continue with many of the actions reported for the interim progress summary.

						Further information is contained within SEPA's Flood Warning Development Framework, published in 2017 and for the period 2017 to 2021. Raising Awareness will form part of each of the 3 key themes identified: • Aim 1: Maintenance of existing and delivery of new flood warning schemes. • Aim 2: Development and innovation. • Aim 3: Engagement with partners and customers. Moray Council will undertake additional awareness raising activities as and when required.
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Moray Council has a schedule of clearance and repair, which identifies routine maintenance and repairs to address areas known to be at risk of flooding.	Moray Council, asset / land managers	Ongoing	Moray Council inspects flood management assets within its region according to an inspection schedule. This schedule is reviewed annually to ensure resources are targeted at the areas at greatest risk.	Moray Council will continue with its programme of clearance and repair work, which is reviewed annually.
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.	Moray Council's emergency plan is reviewed and updated when required.

		authorities, the emergency services and SEPA.			Moray Council Emergency Planners have in place and maintain Emergency Plans for all contingencies	
Planning Policy	G	Scottish Planning Policy and accompanying Planning Advice Notes set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land in terms of flood risk management.	Planning Authority	Ongoing	Moray Council, as a Planning Authority, ensures that new developments satisfy relevant guidance and policies on flooding and drainage.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2020 Local Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Portsoy (Potentially Vulnerable Area 06/02)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Banff coastal



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Summary of Progress for Portsoy

This Potentially Vulnerable Area includes the south east of Portsoy and rural areas along the Burn of Durn to the south west. It is approximately 17km².

The Burn of Durn and Soy Burn flow through the area.

There are approximately 10 residential and fewer than 10 non-residential properties at risk of flooding. The Annual Average Damages are approximately £53,000 with the majority of these from river flooding. Further information can be found in NELFRMP under PVA 06/02.

https://www.aberdeenshire.gov.uk/media/17346/pva-06 02-portsoy.pdf

Since the NE LFRMP was published in May 2016, there has been a significant flood event in Portsoy on 7th June 2017. This predominately effected properties in Soy Avenue and downstream of the Loch of Soy. There was also flooding from the Burn of Durn at the cemetery and the Old Sail Loft which attracted media attention. As such, Aberdeenshire Council have carried out upstream flood protection works on the Soy Burn, at the old railway embankment (next to A98 Kirk Wood) and improved Loch of Soy maintenance procedures. As discussed, at Portsoy Community Council meeting on 6th September 2017.

Overview of actions to manage flooding in Portsoy

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/02							G			G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Portsoy (PVA 06/02)

Action	Status	Description	Delivery	Planned	Interim progress	Planned actions to complete
	(Red;		Lead	Dates		
	Amber;					
	Green)					
Strategic	G	Scottish Water will	Scottish	01/01/2016 -	S16 Assessment - Action	Action Complete
mapping and		undertake further	Water	31/12/2019	Complete	
modelling		investigation and modelling				
		in the Portsoy sewer				
		catchment to improve				
		knowledge and				
		understanding of flood risk				
		in this area.				
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to operate	SEPA will continue and improve
forecasting		Forecasting Service is a joint			the Scottish Flood Forecasting	the Scottish Flood Forecasting
		initiative between SEPA and			Service (SFFS) Partnership	Service (SFFS) with the Met
		the Met Office that produces			with the Met Office with daily,	Office, with daily Flood Guidance
		daily, national flood			national Flood Guidance	Statements and regional Flood
		guidance statements which			Statements issued to Category	Alerts issued as required to

		are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone	enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
					and enables communities to be aware and prepared to	
					reduce the impacts of flooding.	
Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

		businesses are insured				
		against flood damage.				
Awareness	G	Over the six years of the	Responsible	Ongoing	SEPA has delivered a range of	SEPA will raise awareness of the
raising		Plan, 2016-2022,	Authorities		awareness raising activities	coastal flood warning scheme
		Aberdeenshire Council will			through campaigning,	through various channels,
		seek opportunities to raise			education activities and	including social media. This will
		awareness of both flood risk			partnership delivery. We have	be done particularly when coastal
		and actions that enable			run national and local digital	flooding is forecast.
		individuals, homes and			and direct engagement	
		businesses to reduce the			campaigns to raise awareness	
		overall impact of flooding.			of flood risk and SEPA's flood	
					warning service, Floodline. We	
					publish and publicise an	
					electronic newsletter	
					(Flooding Gateway) four times	
					a year which is distributed to a	
					wide audience. We are	
					working with Education	
					Scotland and Scottish	
					Government Resilience team	
					to embed flooding awareness	
					within the Curriculum for	
					Excellence, and resilience	
					partners in Safer Communities	
					programmes. We have also	
					developed an online tool that	
					helps everyone share	
					information on current	
					flooding issues (Report-a-	
					Flood). We have worked in	
					partnership with local	
					authorities, emergency services and community	
					organisations (e.g.	
					Neighbourhood Watch	

					Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshi re Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.

Planning Policy	G	As a consultee on planning	Planning	Ongoing	Aberdeenshire Council and	Continue to consider flood risk
		applications, Aberdeenshire	Authority		SEPA continues to advise on	when determining planning
		Council's Flood & Coast			planning applications.	applications. Ensure final version
		Protection team				of emerging 2021 Aberdeenshire
		will work directly with				Local Development Plan
		colleagues in the Planning				maintains robust policy to avoid
		Service to ensure that				new development in areas that
		appropriate policies and				are at risk of flooding or would
		measures are put in place to				increase flood risk elsewhere, and
		reduce flood risk.				encourages the most sustainable
						approach to managing surface
						water.

Banff (Potentially Vulnerable Area 06/03)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Banff coastal



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Summary of Progress for Banff

This Potentially Vulnerable Area covers the town of Banff. The area is on the west bank of the River Deveron and extends to the Burn of Boyndie. It is approximately 3km².

The A97 and A98 pass through the area and the River Deveron is the main river.

There are approximately 40 residential and 30 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £50,000 with the majority due to river flooding.

Further information can be found in NELFRMP under PVA 06/03.

https://www.aberdeenshire.gov.uk/media/17351/pva-06 03-banff.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Banff area.

Overview of actions to manage flooding in Banff

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/03							Α		G	G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Banff (PVA 06/03)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim Progress	Planned actions to complete
Strategic mapping and modelling- Coastal	A	SEPA will be seeking to develop the flood hazard mapping in the Banff area to improve understanding of the coastal flood risk. The extent and timing of the completed improvements will be dependent on detailed scoping and data availability	SEPA	2016 - 2018	Following the establishment of a coastal flood hazard map development framework and characterisation of the coastline, several projects are currently underway at this location:	It is planned to complete this action in 2019.
					 Development of a national coastal joint probability dataset; Update to the UK design extreme sea level dataset; 	

Strategic mapping and modelling – Deveron	G	SEPA will review modelling of the road embankment in Banff.	SEPA	2016 - 2018	 Coastal modelling and mapping project for northeast Scotland. These projects will collectively enable the revision of flood mapping for the coastline from Scrabster to Arbroath including the Orkney Islands. Following a screening exercise to characterise the catchment, a project to review the representation of river flood hazard for Banff has been undertaken. Whilst an improved understanding of the River Deveron through the town was achieved, no changes to the existing flood mapping were deemed necessary. 	Action Complete, no further action required.
Strategic mapping and modelling – Sewer	A	Scottish Water will undertake modelling of the Macduff sewer catchment.	Scottish Water	01/01/20 16 - 31/12/20 18	Delayed	Assessment will not deliver within LFRMP timescales but is still on track to deliver within FRM Cycle 1
Maintain flood warning	G	SEPA will continue to maintain both the 'Banff' flood warning area which is part of the Deveron river flood warning scheme and the Portsoy to Macduff' flood warning area which is part of the Moray Firth	SEPA	Ongoing	SEPA continues to maintain both the 'Banff' flood warning area which is part of the Deveron river flood warning scheme and the Portsoy to Macduff' flood warning area which is part of the Moray	SEPA will continue to operate the flood warning service

		coastal flood warning scheme			Firth coastal flood warning	
		-			scheme	
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of	

		a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			flooding.	
Awareness raising	G	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take. SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.

		available for public inspection.				
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Macduff (Potentially Vulnerable Area 06/04)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Banff coastal



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Summary of Progress for Macduff

This Potentially Vulnerable Area is located in the Moray Firth to the east of Banff. It is approximately 36km² and extends from the River Deveron at Banff Bay to the Tore Burn east of Troup Head.

The A98 passes through the area.

The River Deveron is the main river in this area with smaller burns draining northwards into the Moray Firth.

There are approximately 40 residential and 20 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £240,000 with the majority from river flooding. It is recognised however that wave overtopping contributes to coastal flooding which is not fully represented in this analysis. Further information can be found in NELFRMP under PVA 06/04.

https://www.aberdeenshire.gov.uk/media/17344/pva-06 04-macduff.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Macduff area.

Overview of actions to manage flooding in Macduff

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/04							Α		G	G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Macduff (PVA 06/04)

Action	Status	Description	Delivery Lead	Planned	Interim progress	Planned actions to complete
				Date		
Strategic mapping	Α	SEPA will be seeking to	SEPA	2017 - 2018	Following the	It is intended to complete this
and modelling –		develop the flood hazard			establishment of a coastal	action in 2019.
Coastal		mapping in the Banff area to			flood hazard map	
		improve understanding of			development framework	
		the coastal flood risk. The			and characterisation of the	
		extent and timing of the			coastline, several projects	
		completed improvements			are currently underway at	
		will be dependent on			this location:	
		detailed scoping and data				
		availability.			Development of a	
					national coastal joint	
					probability dataset;	
					 Update to the UK design 	
					extreme sea level dataset;	
					 Coastal modelling and 	
					mapping project for north-	

					east Scotland.	
					These projects will collectively enable the revision of flood mapping for the coastline from Scrabster to Arbroath	
					including the Orkney	
Strategic mapping and modelling – Sewer	A	Scottish Water will undertake modelling of the Macduff sewer catchment.	Scottish Water	01/01/2016 - 31/12/2018	Islands." Delayed	Assessment will not deliver within LFRMP timescales but is still on track to deliver within FRM Cycle 1
Maintain flood warning	G	SEPA will continue to maintain the 'Banff' flood warning area which is part of the Deveron river flood warning scheme. They will also continue to maintain the 'Gardenstown to Pennan' and 'Portsoy to Macduff' flood warning areas which are part of the Moray Firth coastal flood warning scheme.	SEPA	Ongoing	SEPA continues to maintain the 'Banff' flood warning area which is part of the Deveron river flood warning scheme. SEPA also continue to maintain the 'Gardenstown to Pennan' and 'Portsoy to Macduff' flood warning areas which are part of the Moray Firth coastal flood warning scheme.	SEPA will continue to operate the flood warning service
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the

		an assessment of the risk of			organisations with flooding	daily Flood Guidance Statement to
		flooding for a five day period			management duties) and	provide better and earlier
		allowing responders time to			,	information to the public.
		put preparations in place to			to the public. Each daily	information to the public.
					The state of the s	
		reduce the impact of			statement gives an	
		flooding.			assessment of the risk of	
					flooding for the next five	
					days to enable these	
					organisations to put	
					preparations in place to	
					reduce the impact of	
					flooding. SEPA's Flood Alert	
					service is freely available to	
					everyone and enables	
					communities to be aware	
					and prepared to reduce the	
					impacts of flooding.	
Self help	G	Everyone is responsible for	-	Ongoing	Aberdeenshire Council	
,		protecting themselves and		0 0	continue to make PLP	
		their property flooding.			products available at cost	
		Property and business			price. New sandbag	
		owners can take simple steps			containers installed across	
		to reduce damage and			the Aberdeenshire at flood	
		disruption to their homes			prone locations for public	
		and businesses should			to help themselves to in	
		flooding happen. This			times of flooding.	
		includes preparing a flood			times of mooding.	
		plan and flood kit, installing				
		property level protection,				
		signing up to Floodline and				
		Resilient Communities				
		initiatives, and				
		ensuring that properties and				
		businesses are insured				
		against flood damage.				

Awareness raising	G	Over the six years of the	Responsible	Ongoing	SEPA has delivered a range	SEPA will continue to raise
/wareness raising	J	Plan, 2016-2022,	Authorities	Oligonia	of awareness raising	awareness of flood risk through
		Aberdeenshire Council will	, tatilorities		activities through	campaigning, developing
		seek opportunities to raise			campaigning, education	education and engagement tools,
		awareness of both flood risk			activities and partnership	creating new partnerships and
		and actions that enable			delivery. We have run	improving the flood warning and
		individuals, homes and			national and local digital	forecasting service. Many of our
		businesses to reduce the			and direct engagement	awareness raising activities
		overall impact of flooding.			campaigns to raise	currently underway will continue.
		overan impact of nocumg.			awareness of flood risk and	Our focus will be on promoting
					SEPA's flood warning	flood warning and forecasting
					service, Floodline. We	service, innovation, education
					publish and publicise an	and engagement with partners,
					electronic newsletter	customers and the public.
					(Flooding Gateway) four	
					times a year which is	
					distributed to a wide	
					audience. We are working	
					with Education Scotland	
					and Scottish Government	
					Resilience team to embed	
					flooding awareness within	
					the Curriculum for	
					Excellence, and resilience	
					partners in Safer	
					Communities programmes.	
					We have also developed an	
					online tool that helps	
					everyone share	
					information on current	
					flooding issues (Report-a-	
					Flood). We have worked in	
					partnership with local	
					authorities, emergency	
					services and community	

					organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.	
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.

		inspection.				
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Fraserburgh and Rosehearty (Potentially Vulnerable Area 06/05)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Buchan coastal



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Summary of Progress for Fraserburgh and Rosehearty

This Potentially Vulnerable Area is located in the Moray Firth from Pennan to Fraserburgh. It is approximately 37km². The main urban areas are Fraserburgh, Rosehearty, New Aberdour and Sandhaven There are several small watercourses within the area including The Dour.

There are approximately 60 residential and 80 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £84,000 with the majority from surface water flooding. It is recognised that wave overtopping contributes to coastal flooding which is not fully represented in this analysis. Further information can be found in NELFRMP under PVA 06/05.

https://www.aberdeenshire.gov.uk/media/17343/pva-06 05-fraserburgh-and-rosehearty.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in Fraserburgh and Rosehearty area.

Overview of actions to manage flooding in Fraserburgh and Rosehearty

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/05						Α	R		G	G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Fraserburgh and Rosehearty (PVA 06/05)

Action	Status	Description	Delivery Lead	Planned	Interim progress	Planned actions to complete
	(Red;			Date		
	Amber;					
	Green)					
Surface water	Α	A study to prepare	Aberdeenshire	2016 - 2021	Fraserburgh and Rosehearty flood	Peterhead and Aboyne areas are
plan/study		Surface Water	Council		areas to be mapped in Spring 2019	current priority areas for reviewing
		Management Plan			and flood areas from various	Surface Water Management Plans.
		(SWMP) to			sources reviewed to identify areas	With Fraserburgh and Rosehearty to
		generate increased			for further investigation for	follow in the coming months.
		understanding of			discussing with Scottish Water.	
		the causes,			Re Rosehearty - meeting held with	
		probability and			residents at Murison Drive and	
		consequences of			improved drainage works	
		surface water			completed around school – Nov.	
		flooding and to			2018.	
		evaluate options				
		for surface water				

		flood				
		management.				
Strategic mapping and modelling	R	SEPA will be seeking to incorporate additional surface water hazard mapping information into the flood maps to improve understanding of flood risk. Approximately 1,700km² of improved data is currently available within this Local	SEPA	2018 - 2019	SEPA's current Surface water hazard maps use design rainfall estimates based on FEH99 methodology, this has now been superseded by FEH13 methodology. The FEH13 dataset contains the latest science and understanding of rainfall across Scotland and represents a significant change in rainfall amounts compared to FEH99 dataset, as such it is no longer consider appropriate to deliver this action as originally intended.	This action will not be taken forwards as described. SEPA will develop new Surface water flood hazard maps over the remainder of Cycle 1. It is anticipated that updated flood mapping from this revised action will be available early in Cycle 2. Alongside this SEPA is investigating the feasibility of developing an interim approach to assess the change in Surface water hazard (and risk) associated with FEH13, such that we could consider it in the development of the 2021 FRM
		Plan District.				Strategies.
Strategic mapping and modelling	G	Scottish Water will undertake modelling of the Fraserburgh sewer catchment.	Scottish Water	01/01/2018 - 31/12/2020	Complete	Action Complete
Maintain flood warning	G	SEPA will continue to maintain both the 'Gardenstown to Pennan' and 'Rosehearty to Fraserburgh' flood warning areas which are part of the Moray Firth coastal flood	SEPA	Ongoing	SEPA continues to maintain both the 'Gardenstown to Pennan' and 'Rosehearty to Fraserburgh' flood warning areas which are part of the Moray Firth coastal flood warning scheme.	SEPA will continue to operate the flood warning service

		warning scheme.				
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA continues to provide flood forecasting. SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

		and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and				
		ensuring that properties and				
		businesses are				
		insured against				
Awareness	G	flood damage. Over the six years	Responsible	Ongoing	SEPA has delivered a range of	SEPA will continue to raise
raising	3	of the Plan, 2016-	Authorities	Oligoling	awareness raising activities	awareness of flood risk through
		2022,	7.000		through campaigning, education	campaigning, developing education
		Aberdeenshire			activities and partnership delivery.	and engagement tools, creating new
		Council will seek			We have run national and local	partnerships and improving the
		opportunities to			digital and direct engagement	flood warning and forecasting
		raise awareness of			campaigns to raise awareness of	service. Many of our awareness
		both flood risk and			flood risk and SEPA's flood warning	raising activities currently underway
		actions that enable			service, Floodline. We publish and	will continue. Our focus will be on
		individuals, homes			publicise an electronic newsletter	promoting flood warning and
		and businesses to reduce the overall			(Flooding Gateway) four times a year which is distributed to a wide	forecasting service, innovation,
		impact of flooding.			audience. We are working with	education and engagement with partners, customers and the public.
		impact of flooding.			Education Scotland and Scottish	partiters, customers and the public.
					Government Resilience team to	
					embed flooding awareness within	

					the Curriculum for Excellence, and	
					resilience partners in Safer	
					Communities programmes. We	
					have also developed an online tool	
					that helps everyone share	
					information on current flooding	
					issues (Report-a-Flood). We have	
					worked in partnership with local	
					authorities, emergency services	
					and community organisations (e.g.	
					Neighbourhood Watch Scotland,	
					Citizens Advice Scotland and	
					others) to share our resources and	
					help to promote preparedness and	
					understanding of how we manage	
					flood risk in Scotland. We have	
					actively supported the Scottish	
					Flood Forum and worked closely	
					with UK agencies to develop joint	
					flooding information.	
					Ongoing liaison with community	
					councils on resilience.	
					Aberdeenshire Council advise	
					householders directly on property	
					level protection products and	
					actions they can take.	
Maintenance	G	Local authorities	Aberdeenshire	Ongoing	Publicly accessible page available	Aberdeenshire Council will continue
		have a duty to	Council, asset		on website, updated nightly,	with its routine watercourse
		assess	/ land		showing schedules of clearance	inspections and schedule any
		watercourses and	managers		and repair as assessments take	clearance and repair work.
		carry out clearance			place.	Information available publically.
		and repair works				
		where such works				
		would substantially				

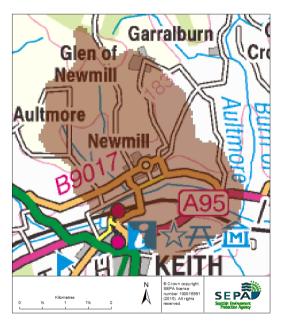
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		reduce flood risk.				
		Aberdeenshire				
		Council will				
		produce				
		schedules of				
		clearance and				
		repair works and				
		make these				
		available for public				
		inspection.				
Emergency	G	Providing an	Category 1	Ongoing	SEPA continues to support	Grampian Emergency Planning Unit's
plans/response		emergency	and 2		emergency planning.	emergency plan is reviewed and
		response to	Responders			updated when required.
		flooding is the			Grampian Emergency Planning Unit	
		responsibility of			have in place and maintain	
		many			Emergency Plans for all	
		organisations,			contingencies	
		including local				
		authorities, the				
		emergency services				
		and SEPA.				
Planning Policy	G	As a consultee on	Planning	Ongoing	Aberdeenshire Council and SEPA	Continue to consider flood risk when
		planning	Authority		continues to advise on planning	determining planning applications.
		applications,	,		applications.	Ensure final version of emerging
		Aberdeenshire				2021 Aberdeenshire Local
		Council's Flood &				Development Plan maintains robust
		Coast Protection				policy to avoid new development in
		team				areas that are at risk of flooding or
		will work directly				would increase flood risk elsewhere,
		with colleagues in				and encourages the most
		the Planning				sustainable approach to managing
		Service to ensure				surface water.
		that appropriate				
		policies and				
		measures are put				

NELPD Local Flood Risk Management Plan 2016-2022: INTERIM REPORT

in place to red		
flood risk.		

Newmill (Potentially Vulnerable Area 06/06)

Local Plan District	Local authority	Main catchment
North East	Moray Council	River Deveron



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Summary of Progress for Newmill

There are approximately 13 residential and fewer than 10 non-residential properties at risk of flooding. The Annual Average Damages are approximately £24,000. These damages are evenly distributed between surface water and river flooding.

Since the NELFRMP was published in May 2016, a flood protection scheme for Newmill has been constructed and this scheme is now operational. This scheme provides protection from surface water runoff to eighteen properties that were previously at risk of flooding. A high level Surface Water Management Plan has been undertaken for Moray, in which Keith is a priority area. Any actions to mitigate flooding identified in this plan will be taken forward for consideration in Cycle 2.

Overview of actions to manage flooding in Newmill

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/06	G					G	G	G	G	G		G	Α	G	G		G	G

Summary of progress of actions to manage flood risk in Newmill (PVA 06/06)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Progress in Delivery, including key deliverables and dates	Revised dates and planned actions to complete / address delay
Flood protection Scheme	G	Moray Council will construct a flood protection scheme in Newmill to address surface water flooding issues. The scheme includes a network of ditches, a cascade, flood walls and a replacement bridge.	Moray Council	2016 - 2021	The Newmill Flood Protection Scheme was completed in December 2016 and is now operational.	No further action required.
Surface water plan/study	G	Moray Council is developing a Surface Water Management Plan for the Keith/Newmill area.	Moray Council	2019	Moray Council completed a Surface Water Management Plan for Keith / Newmill in 2017.	Actions identified in the Surface Water Management Plan will be taken forward for inclusion in the LFRMP for Cycle 2.

Strategic mapping and modelling	G	Scottish Water will undertake modelling of the Keith sewer catchment.	Scottish Water	2020	The Scottish Water assessment of flood risk within the sewer catchment has started. The assessment will improve knowledge and understanding of surface water flood risk.	On track to deliver within agreed LFRMP timescales.
Maintain Flood Protection Scheme	G	Moray Council will continue to maintain the Newmill Flood Protection Scheme, including Phase 2, once completed.	Moray Council	Ongoing	Moray Council has continued to maintain the Newmill Flood Protection Scheme. Phase 2 was included in January 2017.	Moray Council will continue to maintain this scheme.
Maintain flood warning	G	SEPA will continue to maintain the 'Keith' flood warning area which is on the River Isla and forms part of the Deveron River flood warning scheme	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service.
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA continues to provide flood forecasting.	
Community Flood Action Group	G	Newmill Community Association has worked with Moray Council, and tenants to reduce the impact of surface water flooding.	Community	Ongoing	Newmill Community Association and Moray Council worked together to keep local residents informed during the construction of the Newmill Flood Protection Scheme	Moray Council will continue to work with this group on request.

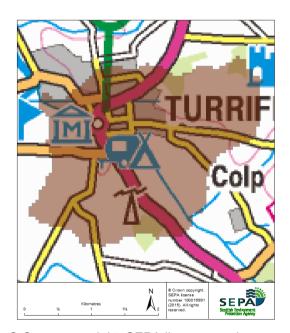
	Francis is assessed blade a	Durana andura	0	CEDA continues to conict	
Α	·	1	Ongoing		
		owners			
				to Floodline.	
	, ,			*	
	•			any requests for assistance from	
	businesses should flooding			property owners in this area.	
	happen. This includes preparing a				
	flood plan and flood kit, installing				
	property level protection, signing				
	up to Floodline and Resilient				
	Communities initiatives, and				
	ensuring that properties and				
	businesses are insured against				
	flood damage.				
G	Moray Council will seek	Responsible	Ongoing	SEPA's principle awareness	SEPA will continue to raise
	opportunities to raise awareness of	Authorities		raising approaches have been	awareness of flood risk
	flood risk and actions that prepare			through:	through direct campaigning,
	individuals, homes and businesses			1. Direct campaigning and	general awareness raising,
	as described in the Act.			general awareness raising.	developing education and
				2. Education and tools.	engagement tools, creating
				3. Partnership delivery	new partnerships and
				development.	improving its flood
					forecasting and warning
				Newmill Community Association	services (e.g. Scottish Flood
				•	Forecasting Service and
					Floodline). This will
					continue with many of the
				of the Newmill Flood Protection	actions reported for the
				Scheme	interim progress summary.
					Further information is
					contained within SEPA's
					Flood Warning Development
					Framework, published in
					2017 and for the period
	G	protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage. G Moray Council will seek opportunities to raise awareness of flood risk and actions that prepare individuals, homes and businesses	protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage. G Moray Council will seek opportunities to raise awareness of flood risk and actions that prepare individuals, homes and businesses	protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage. G Moray Council will seek opportunities to raise awareness of flood risk and actions that prepare individuals, homes and businesses	protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage. Moray Council has not received any requests for assistance from property level protection. Signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage. Moray Council has not received any requests for assistance from property owners in this area. SEPA's principle awareness raising approaches have been through: 1. Direct campaigning and general awareness raising. 2. Education and tools. 3. Partnership delivery development. Newmill Community Association and Moray Council worked together to keep local residents informed during the construction of the Newmill Flood Protection

Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Moray Council has a schedule of clearance and repair, which identifies routine maintenance and repairs to address areas known to be at risk of flooding.	Moray Council, asset / land managers	Ongoing	Moray Council inspects flood management assets within its region according to an inspection schedule. This schedule is reviewed annually to ensure resources are targeted at the areas at greatest risk.	2017 to 2021. Raising Awareness will form part of each of the 3 key themes identified: • Aim 1: Maintenance of existing and delivery of new flood warning schemes. • Aim 2: Development and innovation. • Aim 3: Engagement with partners and customers. Moray Council will undertake additional awareness raising activities as and when required. Moray Council will continue with its programme of clearance and repair work, which is reviewed annually.
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Moray Council Emergency Planners have in place and maintain Emergency Plans for all contingencies	Moray Council's emergency plan is reviewed and updated when required.

_						
Planning Policy	G	Scottish Planning Policy and accompanying Planning Advice Notes set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land in terms of flood risk management.	Planning Authority	Ongoing	Moray Council, as a Planning Authority, ensures that new developments satisfy relevant guidance and policies on flooding and drainage.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2020 Local Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Turriff (Potentially Vulnerable Area 06/07)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Deveron



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Summary of Progress for Turriff

This Potentially Vulnerable Area includes the south and west of Turriff and surrounding rural areas. It is approximately 7km². The A947 passes through the middle of the area.

The main river is the Burn of Turriff which flows into the Deveron just to the north west of the area.

There are approximately 20 non-residential and fewer than 10 residential properties at risk of flooding.

The Annual Average Damages are estimated to be £24,000 with the majority caused by surface water flooding. Further information can be found in NELFRMP under PVA 06/07.

https://www.aberdeenshire.gov.uk/media/17348/pva-06 07-turriff.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Turriff area.

Overview of actions to manage flooding in Turriff

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/07							G		G	G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Turriff (PVA 06/07)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Date	Interim progress	Planned actions to complete
Strategic mapping and modelling	G	Scottish Water will undertake modelling of the Turriff sewer catchment.	Scottish Water	01/01/2016 - 31/12/2018	Action Complete	Complete
Maintain flood warning	G	SEPA will continue to maintain the 'Turriff' flood warning area which is part of the Deveron river flood warning scheme.	SEPA	Ongoing	SEPA continues to maintain the 'Turriff' flood warning area which is part of the Deveron river flood warning scheme.	SEPA will continue to operate the flood warning service
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements

						1 1 1 1 1 1 1
		statements which are issued			Statements issued to Category	and regional Flood Alerts
		to Category 1 and 2			1 and 2 agencies (such as	issued as required to enable
		Responders. The flood			emergency responders, local	communities and responders
		guidance statements provide			authorities and other	to reduce the impacts of
		an assessment of the risk of			organisations with flooding	flooding. SEPA is currently
		flooding for a five day period			management duties) and	exploring options to develop a
		allowing responders time to			regional Flood Alerts issued to	public version of the daily
		put preparations in place to			the public. Each daily	Flood Guidance Statement to
		reduce the impact of			statement gives an	provide better and earlier
		flooding.			assessment of the risk of	information to the public.
					flooding for the next five days	
					to enable these organisations	
					to put preparations in place to	
					reduce the impact of flooding.	
					SEPA's Flood Alert service is	
					freely available to everyone	
					and enables communities to	
					be aware and prepared to	
					reduce the impacts of	
					flooding.	
Self help	G	Everyone is responsible for	-	Ongoing	Aberdeenshire Council	
		protecting themselves and			continue to make PLP	
		their property flooding.			products available at cost	
		Property and business			price. New sandbag containers	
		owners can take simple steps			installed across the	
		to reduce damage and			Aberdeenshire at flood prone	
		disruption to their homes			locations for public to help	
		and businesses should			themselves to in times of	
		flooding happen. This			flooding.	
		includes preparing a flood				
		plan and flood kit, installing				
		property level protection,				
		signing up to Floodline and				

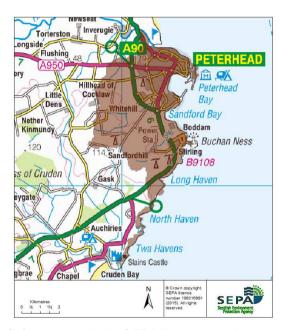
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		initiatives, and				
		ensuring that properties and				
		businesses are insured				
		against flood damage.				
Awareness raising	G	Over the six years of the	Responsible	Ongoing	SEPA has delivered a range of	
		Plan, 2016-2022,	Authorities		awareness raising activities	SEPA will continue to raise
		Aberdeenshire Council will			through campaigning,	awareness of flood risk
		seek opportunities to raise			education activities and	through campaigning,
		awareness of both flood risk			partnership delivery. We have	developing education and
		and actions that enable			run national and local digital	engagement tools, creating
		individuals, homes and			and direct engagement	new partnerships and
		businesses to reduce the			campaigns to raise awareness	improving the flood warning
		overall impact of flooding.			of flood risk and SEPA's flood	and forecasting service. Many
					warning service, Floodline. We	of our awareness raising
					publish and publicise an	activities currently underway
					electronic newsletter	will continue. Our focus will
					(Flooding Gateway) four times	be on promoting flood
					a year which is distributed to a	warning and forecasting
					wide audience. We are	service, innovation, education
					working with Education	and engagement with
					Scotland and Scottish	partners, customers and the
					Government Resilience team	public.
					to embed flooding awareness	
					within the Curriculum for	
					Excellence, and resilience	
					partners in Safer Communities	
					programmes. We have also	
					developed an online tool that	
					helps everyone share	
					information on current	
					flooding issues (Report-a-	
					Flood). We have worked in	
					partnership with local	
					authorities, emergency	
					services and community	
					services and community	

Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take. Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
Emergency plans/response	G	Providing an emergency response to flooding is the	Category 1 and 2	Ongoing	SEPA continues to support emergency planning.	Grampian Emergency Planning Unit's emergency plan is

		responsibility of many organisations, including local authorities, the emergency services and SEPA.	Responders		Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	reviewed and updated when required.
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Peterhead (Potentially Vulnerable Area 06/08)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Buchan coastal



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Summary of Progress for Peterhead

This Potentially Vulnerable Area includes Peterhead, Stirling and Boddam. It is approximately 28km². The A90, A950, and A982 pass through the area.

The main river in the area is the River Ugie.

There are approximately 40 residential and 80 non-residential properties at risk of flooding.

The Annual Average Damages are estimated to be £580,000 with the majority attributed to surface water flooding. Further information can be found in NELFRMP under PVA06/08.

https://www.aberdeenshire.gov.uk/media/17349/pva-06 08-peterhead.pdf

Since the NELFRMP was published in May 2016, SEPA has completed development of a flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeenshire Council to develop procedures for the new flood warning service. A new flood warning area has been introduced for Peterhead to Boddam.

Overview of actions to manage flooding in Peterhead

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Seif help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/08			G			Α	G			G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Peterhead (PVA 06/08)

Action	Status (Red; Amber;	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
	Green)					
New Flood	G	A flood warning	SEPA	2017 - 2018	SEPA has completed	SEPA will continue to operate the flood
Warning		system will be			development of a flood	warning service
		developed and			forecasting model for	
		implemented.			Aberdeenshire and Angus	
					coastline and has worked	
					with Aberdeenshire Council	
					to develop procedures for	
					the new flood warning	
					service. A new flood warning	
					area has been introduced for	
					Peterhead to Boddam.	
Surface	Α	A study to prepare	Aberdeenshire	2016 - 2021	Peterhead flood areas are	Peterhead and Aboyne areas are current
water		Surface Water	Council		being mapped in Spring	priority areas for reviewing Surface
plan/study		Management Plan			2019. Flood areas from	Water Management (Early 2019).
		(SWMP) to generate			various sources to be	

		increased understanding of the causes, probability and consequences of			reviewed to identify areas for further investigation for discussing with Scottish Water.	
		surface water flooding and to evaluate options for surface water flood			Trace.	
		management.				
Strategic	G	Scottish Water will	Scottish Water	01/01/2016 -	Complete	Action Complete
mapping		undertake modelling		31/12/2019		,
and		of the Peterhead		, , .		
modelling		sewer catchment.				
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to	SEPA will continue and improve the
forecasting		Forecasting Service is			operate the Scottish Flood	Scottish Flood Forecasting Service (SFFS)
		a joint initiative			Forecasting Service (SFFS)	with the Met Office, with daily Flood
		between SEPA and			Partnership with the Met	Guidance Statements and regional Flood
		the Met Office that			Office with daily, national	Alerts issued as required to enable
		produces daily,			Flood Guidance Statements	communities and responders to reduce
		national flood			issued to Category 1 and 2	the impacts of flooding. SEPA is currently
		guidance statements			agencies (such as emergency	exploring options to develop a public
		which are issued to			responders, local authorities	version of the daily Flood Guidance
		Category 1 and 2			and other organisations with	Statement to provide better and earlier
		Responders. The			flooding management	information to the public.
		flood guidance			duties) and regional Flood	information to the public.
		statements provide			Alerts issued to the public.	
		an assessment of the			Each daily statement gives	
					an assessment of the risk of	
		risk of flooding for a				
		five day period			flooding for the next five	
		allowing responders			days to enable these	
		time to put			organisations to put	
		preparations in place			preparations in place to	
		to reduce the impact			reduce the impact of	
		of			flooding. SEPA's Flood Alert	
		flooding.			service is freely available to	

					averyone and enables	
					everyone and enables communities to be aware	
					and prepared to reduce the	
0.161.1		_			impacts of flooding.	
Self help	G	Everyone is	-	Ongoing	Aberdeenshire Council	
		responsible for			continue to make PLP	
		protecting			products available at cost	
		themselves and their			price. New sandbag	
		property flooding.			containers installed across	
		Property and			the Aberdeenshire at flood	
		business owners can			prone locations for public to	
		take simple steps to			help themselves to in times	
		reduce damage and			of flooding.	
		disruption to their				
		homes and				
		businesses should				
		flooding happen. This				
		includes preparing a				
		flood plan and flood				
		kit, installing				
		property level				
		protection, signing up				
		to Floodline and				
		Resilient				
		Communities				
		initiatives, and				
		ensuring that				
		properties and				
		businesses are				
		insured against flood				
		damage.				
Awareness	G	Over the six years of	Responsible	Ongoing	SEPA has delivered a range	SEPA will continue to raise awareness of
raising		the Plan, 2016-2022,	Authorities		of awareness raising	flood risk through campaigning,
		Aberdeenshire			activities through	developing education and engagement
		Council will seek			campaigning, education	tools, creating new partnerships and

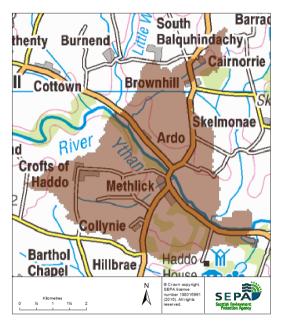
apportunities to raise	activities and partnership	improving the fleed warning and
opportunities to raise	· · · · · · · · · · · · · · · · · · ·	improving the flood warning and
awareness of both	delivery. We have run	forecasting service. Many of our
flood risk and actions	national and local digital and	awareness raising activities currently
that enable	direct engagement	underway will continue. Our focus will
individuals, homes	campaigns to raise	be on promoting flood warning and
and businesses to	awareness of flood risk and	forecasting service, innovation,
reduce the overall	SEPA's flood warning service,	education and engagement with
impact of flooding.	Floodline. We publish and	partners, customers and the public.
	publicise an electronic	
	newsletter (Flooding	
	Gateway) four times a year	
	which is distributed to a	
	wide audience. We are	
	working with Education	
	Scotland and Scottish	
	Government Resilience team	
	to embed flooding	
	awareness within the	
	Curriculum for Excellence,	
	and resilience partners in	
	Safer Communities	
	programmes. We have also	
	developed an online tool	
	that helps everyone share	
	information on current	
	flooding issues (Report-a-	
	Flood). We have worked in	
	partnership with local	
	authorities, emergency	
	services and community	
	organisations (e.g.	
	Neighbourhood Watch	
	Scotland, Citizens Advice	
	Scotland and others) to	
	share our resources and help	

					to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
					Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.	
Maintenan	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
Emergency plans/resp onse	G	Providing an emergency response to flooding is the	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.

		responsibility of many organisations, including local authorities, the emergency services and SEPA.			Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Methlick (Potentially Vulnerable Area 06/09)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Ythan



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Summary of Progress for Methlick

This Potentially Vulnerable Area is located northeast of Inverurie and covers Methlick and the surrounding rural area. It is approximately 21km². The B9005 and B9170 roads run through the area.

The main water course is the River Ythan.

There are approximately 20 non-residential and fewer than 10 residential properties at risk of flooding.

The Annual Average Damages are approximately £71,000. The majority of these are attributed to river flooding. Further information can be found in NELFRMP under PVA 06/09.

https://www.aberdeenshire.gov.uk/media/17342/pva-06 09-methlick.pdf

Since the NELFRMP was published in May 2016, Aberdeenshire Council has carried out flood protection works at the Methlick bridge to improve flow through capacity (completed in October 2017).

Overview of actions to manage flooding in Methlick

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/09										G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Methlick (PVA 06/09)

Action	Status	Description	Delivery Lead	Planned	Interim progress	Planned actions to complete
	(Red;			Dates		
	Amber;					
	Green)					
Flood	G	The Scottish Flood Forecasting	SEPA	Ongoing	SEPA has continued to operate	SEPA will continue and improve the
forecasting		Service is a joint initiative			the Scottish Flood Forecasting	Scottish Flood Forecasting Service
		between SEPA and the Met			Service (SFFS) Partnership	(SFFS) with the Met Office, with
		Office that produces daily,			with the Met Office with daily,	daily Flood Guidance Statements
		national flood guidance			national Flood Guidance	and regional Flood Alerts issued as
		statements which are issued to			Statements issued to Category	required to enable communities
		Category 1 and 2			1 and 2 agencies (such as	and responders to reduce the
		Responders. The flood guidance			emergency responders, local	impacts of flooding. SEPA is
		statements provide an			authorities and other	currently exploring options to
		assessment of the risk of			organisations with flooding	develop a public version of the
		flooding for a five day period			management duties) and	daily Flood Guidance Statement to
		allowing responders time to put			regional Flood Alerts issued to	provide better and earlier
		preparations in place to reduce			the public. Each daily	information to the public.
		the impact of			statement gives an	

		flooding.			assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	
Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.		Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
Awareness raising	G	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness

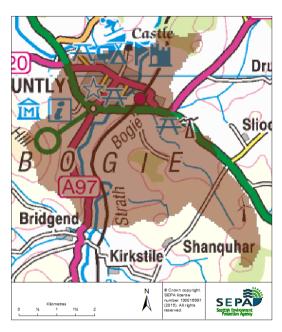
impact of flooding.	campaigns to raise awareness	raising activities currently
, ,	of flood risk and SEPA's flood	underway will continue. Our focus
	warning service, Floodline. We	will be on promoting flood warning
	publish and publicise an	and forecasting service, innovation,
	electronic newsletter	education and engagement with
	(Flooding Gateway) four times	partners, customers and the public.
	a year which is distributed to a	partitions, casterniers and the pasitor
	wide audience. We are	
	working with Education	
	Scotland and Scottish	
	Government Resilience team	
	to embed flooding awareness	
	within the Curriculum for	
	Excellence, and resilience	
	partners in Safer Communities	
	programmes. We have also	
	developed an online tool that	
	helps everyone share	
	information on current	
	flooding issues (Report-a-	
	Flood). We have worked in	
	partnership with local	
	authorities, emergency	
	services and community	
	organisations (e.g.	
	Neighbourhood Watch	
	Scotland, Citizens Advice	
	Scotland and others) to share	
	our resources and help to	
	promote preparedness and	
	understanding of how we	
	manage flood risk in Scotland.	
	We have actively supported	
	the Scottish Flood Forum and	
	worked closely with UK	
	Worked closely with ok	

					agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.	
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase

measures are put in place to		flood risk elsewhere, and
reduce flood risk.		encourages the most sustainable
		approach to managing surface
		water.

Huntly (Potentially Vulnerable Area 06/10)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Deveron



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Summary of Progress for Huntly

This Potentially Vulnerable Area includes Huntly and the rural area to the south. It is approximately 20km². It is approximately 68km². The A96, A97 and A920 pass through the area.

The River Deveron and the River Bogie are the main rivers in this area.

There are approximately 110 residential and 50 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £450,000 with the majority due to river flooding. Further information can be found in NELFRMP under PVA 06/10.

https://www.shardonshire.gov.uk/madia/17345/mvs.06.10 humthund

https://www.aberdeenshire.gov.uk/media/17345/pva-06_10-huntly.pdf

Since the NELFRMP was published in May 2016, the Huntly Flood Protection Scheme designed to protect properties from both the River Deveron and Meadow Burn, was completed in October 2017.

Overview of actions to manage flooding in Huntly

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/10	G					Α	G	G	G	G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Huntly (PVA 06/10)

Action	Status (Red;	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
	Amber;					Complete
	Green)					
Flood	G	Flood Protection Scheme	Aberdeenshire	2016 - 2017	Huntly Flood Scheme completed	Maintenance handover
protections		includes:	Council		October 2017.	documents on-going.
scheme/works		- Raised defences on the				Maintenance schedule to
		right bank of the River				be established and
		Deveron from Arnhall				engaged. 'As built'
		Cottages to Milton Farm				drawings provided for
		- Increasing the size of the				Scottish Government for
		culvert on the Ittingstone				inclusion in SFDAD.
		Burn below the A920 and				
		constructing raised defences				
		- Raising and strengthening				
		the existing defences on the				
		river Deveron between the				
		Bridge of Gibston and the Hill				

		of Haugh				
		of Haugh				
		- Constructing raised defences to the east and				
		south of the caravan park				
		- Replacing one undersize				
		culvert on the Meadow Burn				
		with a timber footbridge				
		- Creating local storage to the				
		west of the Meadows estate				
		by constricting the flow in				
		the Meadow				
		- Various headwalls, culverts				
		and drainage improvements				
Conformation	Δ.	A short to make a Comfact	A la a u a la a constante de la constante de l	2016 2024	Humble flood ages to be grown at	Data whood and Altaria
Surface water	Α	A study to prepare Surface	Aberdeenshire	2016 - 2021	Huntly flood areas to be mapped in	Peterhead and Aboyne
plan/study		Water Management Plan	Council		coming weeks and flood areas from	areas are current priority
		(SWMP) to generate			various sources reviewed to identify	areas for reviewing Surface
		increased understanding of			areas for further investigation for	Water Management Plans.
		the causes, probability and			discussing with Scottish Water.	With Huntly to follow in
		consequences of surface				the coming months.
		water flooding and to				
		evaluate options for surface water flood management.				
Strategic	G	Scottish Water will	Scottish Water	01/01/2018 -	Started	On track to deliver within
mapping and	J	undertake further	Scottish water	31/12/2020	Started	agreed LFRMP timescales
modelling		investigation and modelling		31/12/2020		agreed Li Mvir timescales
modelling		in the Huntly sewer				
		catchment to improve				
		knowledge and				
		understanding of flood risk in				
		this area.				
Maintain flood	G	Assuming the Huntly Flood	Aberdeenshire	2019 onwards	As per description and on track to	
protection		Protection Scheme is	Council		deliver within agreed LFRMP	
scheme*					_	
		completed within the first			timescales	

		2022 the fellowing				
		2022, the following				
		maintenance measures will				
		be undertaken:				
		- General inspection and				
		maintenance				
		– Rock Armour -				
		Replacement when required				
		- Debris screens will receive				
		routine/programmed				
		inspections as well as				
		reactive and emergency				
		response.				
		- The Reservoirs (Scotland)				
		Act 2011 requires all				
		reservoirs above the capacity				
		of 10,000m³ to be included				
		on a SEPA register. As such,				
		inspection, maintenance and				
		certification requirements of				
		the Reservoirs (Scotland) Act				
		2011				
Maintain flood	G	SEPA will continue to	SEPA	Ongoing	SEPA has continued to operate the	SEPA will continue to
warning		maintain the 'Huntly (Bogie)'		2828	flood warning service	operate the flood warning
		flood warning area which is			,	service
		on the River Bogie and the				56.7.66
		'Milton and The Meadows'				
		flood warning area. Both				
		form part of the Deveron				
		river flood warning scheme.				
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to operate the	SEPA will continue and
forecasting	3	Forecasting Service is a joint	JEIA	Oligonia	Scottish Flood Forecasting Service	
Torecasting		initiative between SEPA and			(SFFS) Partnership with the Met	improve the Scottish
					Office with daily, national Flood	Flood Forecasting
		the Met Office that produces			Office with daily, flational Flood	Service (SFFS) with the

		daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

	against flood damage.				
Awareness raising	against flood damage. Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

Maintenance	G	Local authorities have a duty to assess watercourses and	Aberdeenshire Council, asset	Ongoing	flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take. Publicly accessible page available on website, updated nightly, showing	Aberdeenshire Council will continue with its routine
		carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	/ land managers		schedules of clearance and repair as assessments take place.	watercourse inspections and schedule any clearance and repair work. Information available publically.
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to

measures are put in place to reduce flood risk.		avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and
		encourages the most sustainable approach to managing surface water.

Insch (Potentially Vulnerable Area 06/11)

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



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Summary of Progress for Insch

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. Further information can be found in NELFRMP under PV06/11.

https://www.aberdeenshire.gov.uk/media/17355/pva-06 11-insch.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Insch area. However work has begun on the Insch Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation.

Overview of actions to manage flooding in Insch

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Seif help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/11				G			R			G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Insch (PVA 06/11)

Action	Status	Description	Delivery Lead	Planned	Interim progress	Planned actions to complete
				Dates		
Flood protection study	G	To evaluate options to reduce the risk of flooding in Insch from river flooding – Valentine Burn and The Shevock	Aberdeenshire Council	2016 - 2021	Modelling and analysis – Winter 2018 Outline engineering design - Winter 2018 Stakeholder and public engagement 1 - Spring 2019 Options appraisal - Spring 2019 Stakeholder and public engagement 2 - Summer 2019	Project completion - late Summer 2019
Strategic mapping and modelling - Sewer	G	Scottish Water will undertake modelling of the Insch sewer catchment.	Scottish Water	01/01/2017 - 31/12/2020	Not Started	On track to deliver within agreed LFRMP timescales
Strategic	R	SEPA will improve surface	SEPA	01/01/2018 -	SEPA's current Surface water	This action will not be taken

mapping and modelling – Surface Water		water mapping across approximately 1,700km2 in the North East Local Plan District.		31/12/19	hazard maps use design rainfall estimates based on FEH99 methodology, this has now been superseded by FEH13 methodology. The FEH13 dataset contains the latest science and understanding of rainfall across Scotland and represents a significant change in rainfall amounts compared to FEH99 dataset, as such it is no longer consider appropriate to deliver this action as originally intended.	forwards as described. SEPA will develop new Surface water flood hazard maps over the remainder of Cycle 1. It is anticipated that updated flood mapping from this revised action will be available early in Cycle 2. Alongside this SEPA is investigating the feasibility of developing an interim approach to assess the change in Surface water hazard (and risk) associated with FEH13, such that we could consider it in the development of the 2021 FRM Strategies.
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.

Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to	-	Ongoing	days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding. Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across	
		reduce damage and disruption to their homes and businesses			the Aberdeenshire at flood prone locations for public to	
		should flooding happen. This includes preparing a flood plan			help themselves to in times of flooding.	
		and flood kit, installing property level protection,				
		signing up to Floodline and Resilient Communities				
		initiatives, and				
		ensuring that properties and businesses are insured against				
		flood damage.				
Awareness	G	Over the six years of the Plan, 2016-2022, Aberdeenshire	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising	SEPA will continue to raise awareness of flood risk through
raising		Council will seek opportunities	Additionties		activities through	campaigning, developing
		to raise awareness of both			campaigning, education	education and engagement
		flood risk and actions that			activities and partnership	tools, creating new partnerships
		enable individuals, homes and			delivery. We have run	and improving the flood
		businesses to reduce the			national and local digital and	warning and forecasting service.
		overall impact of flooding.			direct engagement	Many of our awareness raising

	campaigns to raise	activities currently underway
	awareness of flood risk and	will continue. Our focus will be
	SEPA's flood warning service,	on promoting flood warning and
	Floodline. We publish and	forecasting service, innovation,
	publicise an electronic	education and engagement with
	newsletter (Flooding	partners, customers and the
	Gateway) four times a year	public
	which is distributed to a	'
	wide audience. We are	
	working with Education	
	Scotland and Scottish	
	Government Resilience team	
	to embed flooding	
	awareness within the	
	Curriculum for Excellence,	
	and resilience partners in	
	Safer Communities	
	programmes. We have also	
	developed an online tool	
	that helps everyone share	
	information on current	
	flooding issues (Report-a-	
	Flood). We have worked in	
	partnership with local	
	authorities, emergency	
	services and community	
	organisations (e.g.	
	Neighbourhood Watch	
	Scotland, Citizens Advice	
	Scotland and others) to	
	share our resources and help	
	to promote preparedness	
	and understanding of how	
	we manage flood risk in	
	Scotland. We have actively	

Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take. Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains

Service to ensure that		robust policy to avoid new
appropriate policies and		development in areas that are
measures are put in place to		at risk of flooding or would
reduce flood risk.		increase flood risk elsewhere,
		and encourages the most
		sustainable approach to
		managing surface water.

Ellon (Potentially Vulnerable Area 06/12)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Ythan



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Summary of Progress for Ellon

This Potentially Vulnerable Area is centred on Ellon. It is approximately 19km². The A920, A948, B9005 and a short section of the A90 pass through the area.

The main river in the area is the Ythan, which is tidally influenced downstream of Ellon.

There are approximately 110 residential and 40 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £300,000 with the majority due to river flooding.

Further information can be found in NELFRMP under PVA 06/12.

https://www.aberdeenshire.gov.uk/media/17357/pva-06 12-ellon.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Ellon area. However work has begun on the Ellon Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation.

Overview of actions to manage flooding in Ellon

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/12				G			G			G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Ellon (PVA 06/12)

Action	Status (Red;	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
	Amber;			Dates		
	Green)					
Flood	G	To evaluate options to	Aberdeenshire	2016 - 2019	Stakeholder and public	Project completion - Summer 2019
protection		reduce the	Council		engagement 1 – Winter 2018	
study		risk of flooding in Ellon			Options appraisal - Spring 2019	
		from river flooding –			Stakeholder and public	
		Broomies / Bronie			engagement 2 - Spring 2019	
		Burn, Modley Burn				
		and the River Ythan.				
Strategic	G	Scottish Water will	Scottish Water	01/01/2016	Started	On track to deliver within agreed
mapping and		undertake further		- 31/12/2020		LFRMP timescales
modelling		investigation and				
		modelling in the Ellon				
		sewer catchment to				
		improve knowledge				

		and understanding of				
		flood risk in this area.				
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to operate	SEPA will continue and improve the
forecasting	J	Forecasting Service is a	JLIA	Oligoliig	the Scottish Flood Forecasting	Scottish Flood Forecasting Service
Torceasting		joint initiative between			Service (SFFS) Partnership with	(SFFS) with the Met Office, with daily
		SEPA and the Met			the Met Office with daily,	Flood Guidance Statements and
		Office that produces			national Flood Guidance	regional Flood Alerts issued as
		daily, national flood			Statements issued to Category 1	required to enable communities and
		guidance statements			and 2 agencies (such as	responders to reduce the impacts of
		which are issued to			emergency responders, local	flooding. SEPA is currently exploring
		Category 1 and 2			authorities and other	options to develop a public version of
		Responders. The flood			organisations with flooding	the daily Flood Guidance Statement to
		· ·				provide better and earlier information
		guidance statements			management duties) and	•
		provide an assessment			regional Flood Alerts issued to	to the public.
		of the risk of flooding			the public. Each daily statement	
		for a five day period			gives an assessment of the risk	
		allowing responders			of flooding for the next five	
		time to put			days to enable these	
		preparations in place			organisations to put	
		to reduce the impact of			preparations in place to reduce	
		flooding.			the impact of flooding. SEPA's	
					Flood Alert service is freely	
					available to everyone and	
					enables communities to be	
					aware and prepared to reduce	
					the impacts of flooding.	
Self help	G	Everyone is responsible	-	Ongoing	Aberdeenshire Council continue	
		for protecting			to make PLP products available	
		themselves and their			at cost price. New sandbag	
		property flooding.			containers installed across the	
		Property and business			Aberdeenshire at flood prone	
		owners can take simple			locations for public to help	
		steps to reduce			themselves to in times of	
		damage and disruption			flooding.	
		to their homes and				

Awareness	G	businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage. Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.
					We are working with Education	

					programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on	
					property level protection products and actions they can	
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would	Aberdeenshire Council, asset / land managers	Ongoing	take. Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.

		substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.				
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Inverurie and Kintore (Potentially Vulnerable Area 06/13)

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



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Summary of Progress for Inverurie and Kintore

This Potentially Vulnerable Area includes Inverurie and Kintore. It is approximately 60km2. The A96 and the Aberdeen to Inverness railway pass through the area.

The main watercourses are the River Don and the River Urie. There are several smaller watercourses including the Strath Burn which is mainly culverted through Inverurie.

There are approximately 230 residential and 190 non-residential properties at risk of flooding.

The Annual Average Damages are estimated to be £510,000 with the majority caused by river flooding. Further information can be found in NELFRMP under PVA 06/13.

https://www.aberdeenshire.gov.uk/media/17360/pva-06 13-inverurie-and-kintore.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Inverurie and Kintore areas. However work has begun on the Inverurie and Port Elphinstone Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation.

Overview of actions to manage flooding in Inverurie and Kintore

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/13				G		Α	А		G	G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Inverurie and Kintore (PVA 06/13)

Action	Status (Red;	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
	Amber;					
	Green)					
Flood	G	To evaluate options to	Aberdeenshire	2016 - 2019	Outline engineering design -	Project completion - Summer 2019
protection		reduce the	Council		Winter 2018	
study		risk of flooding in			Stakeholder and public	
		Inverurie and Port			engagement 1 – Spring 2019	
		Elphinstone from river			Options appraisal - Spring	
		flooding – River Urie and			2019	
		the River Don			Stakeholder and public	
					engagement 2 - Summer 2019	
Surface water	Α	A study to prepare Surface	Aberdeenshire	2016 - 2021	Inverurie and Kintore flood	Peterhead and Aboyne areas are
plan/study		Water Management Plan	Council		areas to be mapped in coming	current priority areas for reviewing
		(SWMP) to generate			weeks and flood areas from	Surface Water Management Plans.
		increased understanding			various sources reviewed to	With Inverurie and Kintore to follow
		of the causes, probability			identify areas for further	in the coming months.

Strategic mapping and modelling - Sewer	G	and consequences of surface water flooding and to evaluate options for surface water flood management. Scottish Water will undertake further investigation and modelling in the Inverurie sewer catchment to improve knowledge and understanding of flood risk in this area.	Scottish Water	01/01/2017 - 31/12/2018	investigation for discussing with Scottish Water Not Started	On track to deliver within agreed LFRMP timescales
Strategic mapping and modelling - River	A	SEPA will develop the strategic mapping in the Upper Don area, from Pitcaple to Kintore.	SEPA	01/01/2017 - 31/12/2018	Following a screening exercise to characterise the catchment and identify the data necessary to support mapping improvements, a topographic survey of the catchment has been undertaken. A local authority study is currently underway for Inverurie. Immediately upstream of the PVA, there are modelling studies being undertaken for the Upper River Don, River Urie and Shevock by SEPA and the local authority. These projects will collectively enable the revision of flood mapping for the River Don to Dyce.	SEPA will continue to support the local authority in the delivery of their studies for this area. It is planned to complete this action by the end of Cycle 1.
Maintain flood warning	G	SEPA will continue to maintain the 'Inverurie' and 'Kintore' flood	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service

		warning areas which are				
		part of the Don river flood				
		•				
		warning scheme				
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to operate	SEPA will continue and improve the
forecasting		Forecasting Service is a			the Scottish Flood Forecasting	Scottish Flood Forecasting Service
		joint initiative between			Service (SFFS) Partnership	(SFFS) with the Met Office, with daily
		SEPA and the Met Office			with the Met Office with daily,	Flood Guidance Statements and
		that produces daily,			national Flood Guidance	regional Flood Alerts issued as
		national flood guidance			Statements issued to Category	required to enable communities and
		statements which are			1 and 2 agencies (such as	responders to reduce the impacts of
		issued to Category 1 and 2			emergency responders, local	flooding. SEPA is currently exploring
		Responders. The flood			authorities and other	options to develop a public version
		guidance statements			organisations with flooding	of the daily Flood Guidance
		provide an assessment of			management duties) and	Statement to provide better and
		the risk of flooding for a			regional Flood Alerts issued to	earlier information to the public.
		five day period allowing			the public. Each daily	·
		responders time to put			statement gives an	
		preparations in place to			assessment of the risk of	
		reduce the impact of			flooding for the next five days	
		flooding.			to enable these organisations	
					to put preparations in place to	
					reduce the impact of flooding.	
					SEPA's Flood Alert service is	
					freely available to everyone	
					and enables communities to	
					be aware and prepared to	
					reduce the impacts of	
					flooding.	
					Hooding.	
Self help	G	Everyone is responsible	-	Ongoing	•	
		for protecting themselves		- 10-1116	Aberdeenshire Council	
		and their property			continue to make PLP	
		flooding. Property and			products available at cost	
		business owners can take			price. New sandbag containers	
		simple steps to reduce			installed across the	
		simple steps to reduce			mstaneu across the	

		damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
Awareness	G	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

			1		e allocation designs	1
					Excellence, and resilience	
					partners in Safer Communities	
					programmes. We have also	
					developed an online tool that	
					helps everyone share	
					information on current	
					flooding issues (Report-a-	
					Flood). We have worked in	
					partnership with local	
					authorities, emergency	
					services and community	
					organisations (e.g.	
					Neighbourhood Watch	
					Scotland, Citizens Advice	
					Scotland and others) to share	
					our resources and help to	
					promote preparedness and	
					understanding of how we	
					manage flood risk in Scotland.	
					We have actively supported	
					the Scottish Flood Forum and	
					worked closely with UK	
					agencies to develop joint	
					flooding information.	
					Ongoing liaison with	
					community councils on	
					resilience. Aberdeenshire	
					Council advise householders	
					directly on property level	
					protection products and	
					actions they can take.	
Maintenance	G	Local authorities have a	Aberdeenshire	Ongoing	Publicly accessible page	Aberdeenshire Council will continue
		duty to assess	Council, asset	5555	available on website, updated	with its routine watercourse
		watercourses and carry	/ land		nightly, showing schedules of	inspections and schedule any
		watercourses and carry	/ Idiid		ingitity, showing schedules of	mapeculons and schedule any

		out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	managers		clearance and repair as assessments take place.	clearance and repair work. Information available publically.
Emergency plans/response	G	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning. Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Heugh-head (Potentially Vulnerable Area 06/14)

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



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Summary of Progress for Heugh-head

This Potentially Vulnerable Area includes the villages of Heugh-head, Forbestown, Bellabeg and Waterside. It is approximately 13km² and located within the Cairngorms National Park

The main water course is the River Don.

There are approximately 10 residential and 10 non-residential properties at risk of flooding.

The Annual Average Damages are estimated to be £95,000 with the majority of these from river flooding. Further information can be found in NELFRMP under PVA 06/14.

https://www.aberdeenshire.gov.uk/media/17353/pva-06 14-heugh-head.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Heugh-head area.

Overview of actions to manage flooding in Heugh-head

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/14										G			G	G	G	Α	G	G

Summary of progress of actions to manage flood risk in Heugh-head (PVA 06/14)

Action	Status	Description	Delivery Lead	Planned	Interim progress	Planned actions to complete
	(Red;			Dates		
	Amber;					
	Green)					
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to operate	SEPA will continue and improve the
forecasting		Forecasting Service is a joint			the Scottish Flood Forecasting	Scottish Flood Forecasting Service
		initiative between SEPA and			Service (SFFS) Partnership	(SFFS) with the Met Office, with daily
		the Met Office that			with the Met Office with daily,	Flood Guidance Statements and
		produces daily, national			national Flood Guidance	regional Flood Alerts issued as required
		flood guidance statements			Statements issued to Category	to enable communities and responders
		which are issued to			1 and 2 agencies (such as	to reduce the impacts of flooding. SEPA
		Category 1 and 2			emergency responders, local	is currently exploring options to develop
		Responders. The flood			authorities and other	a public version of the daily Flood
		guidance statements			organisations with flooding	Guidance Statement to provide better
		provide an assessment of			management duties) and	and earlier information to the public.
		the risk of flooding for a five			regional Flood Alerts issued to	
		day period allowing			the public. Each daily	
		responders time to put			statement gives an	

		preparations in place to reduce the impact of flooding.			assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	
Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.		Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
Awareness raising	G	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and

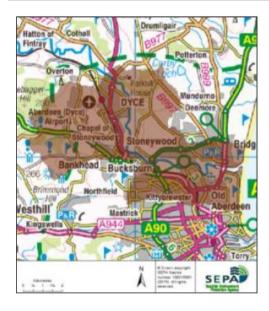
and actions that enable	run national and local digital	forecasting service. Many of our
individuals, homes and	and direct engagement	awareness raising activities currently
businesses to reduce the	campaigns to raise awareness	underway will continue. Our focus will
overall impact of flooding.	of flood risk and SEPA's flood	be on promoting flood warning and
	warning service, Floodline. We	forecasting service, innovation,
	publish and publicise an	education and engagement with
	electronic newsletter	partners, customers and the public.
	(Flooding Gateway) four times	
	a year which is distributed to a	
	wide audience. We are	
	working with Education	
	Scotland and Scottish	
	Government Resilience team	
	to embed flooding awareness	
	within the Curriculum for	
	Excellence, and resilience	
	partners in Safer Communities	
	programmes. We have also	
	developed an online tool that	
	helps everyone share	
	information on current	
	flooding issues (Report-a-	
	Flood). We have worked in	
	partnership with local	
	authorities, emergency	
	services and community	
	organisations (e.g.	
	Neighbourhood Watch	
	Scotland, Citizens Advice	
	Scotland and others) to share	
	our resources and help to	
	promote preparedness and	
	understanding of how we	
	manage flood risk in Scotland.	
	We have actively supported	

					the Scottish Flood Forum and	
					worked closely with UK	
					agencies to develop joint	
					flooding information.	
					moduling information.	
					Ongoing liaison with	
					community councils on	
					resilience. Aberdeenshire	
					Council advise householders	
					directly on property level	
					protection products and	
					· ·	
Maintagaga	G	Local authorities have a	Aberdeenshire	Ongoine	actions they can take.	Aberdeenshire Council will continue
Maintenance	G			Ongoing	Publicly accessible page	
		duty to assess watercourses	Council, asset		available on website, updated	with its routine watercourse inspections
		and carry out clearance and	/ land		nightly, showing schedules of	and schedule any clearance and repair
		repair works where such	managers		clearance and repair as	work. Information available publically.
		works would substantially			assessments take place.	
		reduce flood risk.				
		Aberdeenshire Council will				
		produce				
		schedules of clearance and				
		repair works and make				
		these available for public				
		inspection.				
Site protection	Α	Site protection plans to be	Asset	2016 -	Jun 2017 - Aberdeenshire	LA to discuss with private owner and /
plans		developed for fire station	Managers	2018	Council's emergency planning	or Community group about preparing
		and doctor's surgery in			unit contacted the two sites.	an Emergency Plan with assistance
		Strathdon to reduce risk of				provided by Grampian Emergency
		flooding from the River				Planning Unit and the Scottish Flood
		Don.				Forum
Emergency	G	Providing an emergency	Category 1	Ongoing	SEPA continues to support	Grampian Emergency Planning Unit's
plans/response		response to flooding is the	and 2		emergency planning.	emergency plan is reviewed and
		responsibility of many	Responders			updated when required.
		organisations, including			Grampian Emergency Planning	
		local authorities, the			Unit have in place and	

		emergency services and SEPA.			maintain Emergency Plans for all contingencies	
		···	_		<u> </u>	
Planning Policy	G	As a consultee on planning	Planning	Ongoing	Aberdeenshire Council and	Continue to consider flood risk when
		applications, Aberdeenshire	Authority		SEPA continues to advise on	determining planning applications.
		Council's Flood & Coast			planning applications.	Ensure final version of emerging
		Protection team				Cairngorms National Park Plan 2020
		will work directly with				maintains robust policy to avoid new
		colleagues in the Planning				development in areas that are at risk of
		Service to ensure that				flooding or would increase flood risk
		appropriate policies and				elsewhere, and encourages the most
		measures are put in place				sustainable approach to managing
		to reduce flood risk.				surface water.

Bridge of Don (Potentially Vulnerable Area 06/15)

Local Plan District	Local authority	Main catchment
North East	Aberdeen City Council	River Don
	Aberdeenshire Council	Aberdeen North Coastal



Summary of Progress for Aberdeen City - Bridge of Don

This Potentially Vulnerable Area covers the northern areas of the City of Aberdeen, extending along the River Don from Bridge of Don to Dyce. It is approximately 46km2 and includes the airport and Aberdeen to Inverness railway line. The main river is the River Don and there are also a number of small watercourses, most of which are culverted for all or part of their route through the city.

There are approximately 2,200 residential properties and 470 non-residential properties at risk of flooding. The Annual Average Damages are approximately £4.5 million with the majority caused by river flooding. Further information can be found in NELFRMP under PVA 06/15.

https://www.aberdeenshire.gov.uk/media/17358/pva-06_15-aberdeen-city-bridge-of-don.pdf

Since the NELFRMP was published in May 2016, SEPA has completed development of a flood forecasting model for the Aberdeenshire and Angus coastline and has worked with Aberdeenshire and Aberdeen City Councils to develop procedures for the new flood warning service. A new flood warning area has been introduced for the Aberdeen Coastal area.

Overview of actions to manage flooding in Bridge of Don

Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/15		G	Α		Α	Α		G	G	G		G	G	G		G	G

Summary of progress of actions to manage flood risk in Bridge of Don

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
New flood	G	Flood warning is required for	SEPA	2017 - 2018	SEPA has completed	SEPA will continue to operate the flood
warning		communities at risk of coastal			development of a	warning service.
		flooding along the			flood forecasting	
		Aberdeenshire coast from			model for the	
		Peterhead to Montrose. A flood			Aberdeenshire and	
		warning system will be			Angus coastline and	
		developed and implemented.			has worked with	
		The geographical extent of			Aberdeenshire and	
		specific flood warning areas will			Aberdeen City	
		be developed as part of this			Councils to develop	
		process.			procedures for the	
					new flood warning	
					service. A new flood	
					warning area has	
					been introduced for	
					the Aberdeen	

					Coastal area.	
Flood protection	A	The Bridge of Don Flood	Aberdeen	2016 - 2019	At present no	The delay in starting these has been due
study		Protection study will look at the	City Council		progress has been	to resources being unavailable to begin
		flood risk from small			made on the	the commissions of consultants and the
		watercourses and surface water			delivery of the flood	completion of the Aberdeen Integrated
		in this area and define types of			studies in detail	Catchment Study.
		solutions that may be applicable			within the Bridge of	Within year 3 of the FRM cycle, the
		to these areas to			Don/Denmore PVA.	Aberdeen Integrated Catchment Study
		prevent or reduce the flood risk.			Work has been	will be updated to allow for new
					completed in	developments and rainfall to be added.
					finalising the	Within year 3 of the FRM all of the
					outputs from the	highlighted studies will be commissioned,
					Aberdeen ICS which	with anticipated results by end of 2019.
					has helped inform	These results will identify the flood risk
					the Surface Water	and potential options and locations for
					Management Plans	works, with the exception of the river Don
					and identify in detail	model which is unlikely to be completed
					key risk areas within	until 2020.
					these PVA where	
					further study work is	
					required. This has	
					highlighted the	
					following areas	
					which need flood	
					study works to be	
					done:-River Don	
					Flood Study – River	
					Don to be modelled	
					for the entire length	
					within the city	
					boundaries. Works	
					has not started on	
					this.	
					Clashia Dura Fland	
					Glashie Burn Flood	

Study - This is to understand the flood risk from the burn, with particular reference to Jesmond Drive & Denmore Gardens. Works has not started on this. Silver Burn Flood Study - This is to understand the
flood risk from the burn, with particular reference to Jesmond Drive & Denmore Gardens. Works has not started on this. Silver Burn Flood Study - This is to understand the
burn, with particular reference to Jesmond Drive & Denmore Gardens. Works has not started on this. Silver Burn Flood Study - This is to understand the
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Works has not started on this. Silver Burn Flood Study - This is to understand the
Silver Burn Flood Study - This is to understand the
Silver Burn Flood Study - This is to understand the
Study - This is to understand the
Study - This is to understand the
understand the
flood risk from the
burn, with particular
reference to The
Barracks and
Broadford Drive.
Work has not begun
on this.
Far Burn Flood Study
- This is to
understand the
flood risk from the
burn with reference
to Farburn Terrace.
Work has not
started on this yet.
Surface water ACC are creating a surface water Aberdeen 2016 - 2018 Aberdeen City By the end of 2019 all Surface Water
plan/study management plan (SWMP). The City Council Council defined 10 Management Plans will be completed
plan will assess all of the current surface water plan with actions identified. They will identify
data available with regard to areas across the city. time frames for the actions to be
flood risk from historical records Each of these is undertaken and within which FRM cycle
of flooding/maintenance and being done on a risk they may take place. By 2020 ALL SWMPs

	existing flood schemes.	based approach,	will be published on the ACC website and
		looking at the risk	available for view by the public. SWMPs
		that surface water	will also form part of the revised Local
		presents to the are	•
		The plans look at	the plans have been due to lack of
		data from various	availability of resources and complexity of
		sources, including	the surface water and integrated
		SEPA/Historic and	catchments in Aberdeen.
		the Aberdeen	
		Integrated	
		Catchment Study.	
		Currently ACC has	<u>!</u>
		members of staff	
		designated full tim	
		on the production	of .
		these plans. Currer	t
		status of the plans	
		are as follows:-	
		Garthdee to Ferryh	<mark>ill </mark>
		Not started	
		Denburn Valley -No	<mark>rt</mark>
		started	
		Northfield to Seato	<mark>n</mark>
		Not started	
		Bridge of Don –	
		Started	
		Bucksburn – Not	
		started	
		Dyce – Completed	
		and Approved	
		Kingswells – Starte	
		Peterculter – Starte	
		Cults and Millside -	
		Draft Complete	

					Torry and Cove -					
					Draft Complete.					
Strategic	Α	SEPA will be seeking to develop	SEPA	2016 - 2018	A screening exercise	Potential options for the development of				
mapping and		the flood hazard mapping in the			to characterise the	river hazard mapping for the lower Don				
modelling - River		Green Burn (right hand tributary			catchment and	and tributaries are currently under				
		at Dyce) and in the Middle Don			identify the data	review. Any further work identified would				
		(from Kintore to Dyce) areas to			necessary to support	likely take place in late cycle 1/early cycle				
		improve understanding of the			mapping	2.				
		flood risk. The extent and timing			improvements has					
		of the completed improvements			been undertaken.					
		will be dependent on detailed			Within the wider					
		scoping and data availability.			PVA, improvements					
					to the river hazard					
					mapping for the					
					lower River Don					
					were undertaken in					
	0	6		04 /04 /004 6	2015.					
Strategic	G	Scottish Water will undertake	Scottish	01/01/2016	Complete	Action Complete				
mapping and		modelling of the Persley sewer	Water	-						
modelling - Sewer		catchment.		31/12/2019						
Maintain flood	G	Continue to maintain the	SEPA	Ongoing	SEPA has continued	SEPA will continue to operate the flood				
warning	J	Aberdeen (Don) flood warning	JEI A	Origonia	to operate the flood	warning service.				
warring		area which is part of the River			warning service.	Warring Service.				
		Don flood warning scheme.			warning service.					
Flood forecasting	G	The Scottish Flood Forecasting	SEPA	Ongoing	SEPA has continued	SEPA will continue to improve the				
Thood for ecasting	J	Service is a joint initiative	JEI / C	O'IBOIIIB	to operate the	Scottish Flood Forecasting Service (SFFS)				
		between SEPA and the Met			Scottish Flood	with the Met Office, with daily flood				
	Office that produces da				Forecasting Service	guidance statements and flood alerts				
		national flood guidance			(SFFS) Partnership	issued as required to enable communities				
		statements which are issued to			with the Met Office	and responders to reduce the impacts of				
		Category 1 and 2			with daily national	flooding.				
		Responders. The flood guidance			flood guidance	_				
		statements provide an			statements issued to					
		assessment of the risk of			Category 1 and 2					

		flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of	
Property level protection scheme	G	Creation of Property Level Grant Scheme.	Aberdeen City Council	2016 - 2021	flooding. ACC are running a 50% grant funding scheme towards property level protection. This is now in year 3 of a 5 year scheme.	ACC to continue to promote the Flood Grant scheme for the remaining two years of the funding.
Self help	G	Everyone is responsible for protecting themselves and their	Aberdeen City Council	2016 - 2021	Aberdeen City Council have	ACC are looking to install a network of local gauges to allow the community

		property flooding. Property and			continued to	assess the risk from the small burns and
		business owners can take			promote its Property	water course which may affect their
		simple steps to reduce damage			Level Flood Grant	property
		and disruption to their homes			Scheme along with	
		and businesses should flooding			the use of Social	
		happen. This includes preparing			media to inform of	
		a flood plan and flood kit,			flood risk. ACC have	
		installing			also used social	
		property level protection,			media to undertake	
		signing up to Floodline and			awareness raising as	
		Resilient Communities			part of our Winter	
		initiatives, and			Main campaign. ACC	
		ensuring that properties and			have worked with a	
		businesses are insured against			local school to	
		flood damage. ACC will be			create water safety	
		promoting self-help through			leaflet.	
		work with the community. This				
		will include the creation of a				
		Flood Guard Grant Scheme to				
		assist people with putting in				
		Property Level Protection.				
Awareness	G	Engagement with local	Responsible	Ongoing	Aberdeen City	Over the remaining years of the cycle,
raising		community following a flooding	Authorities		Council have	Aberdeen City Council will continue to
		incident and regarding historic			continued to	work on raising awareness. Following the
		issues. Initial community			promote its Property	completion of the Surface Water
		engagement with both			Level Flood Grant	Management Plans we will target
		Community Council and the			Scheme along with	awareness raising within those areas of
		wider community, exploring			the use of social	risk. We will also be working with SEPA on
		possible options regarding SEPA			media to inform of	the promotion of the Coastal Flood
		and Local Authority			flood risk. We have	Warning System and support all the
		engagement. Community			also used social	incentives around the Flood warning
		engagement presentation and			media to undertake	system.
		appropriate advice – short term			awareness raising as	
		strategic development.			part of our Winter	SEPA will continue to raise awareness of
					Maintenance	flood risk through campaigning,

		campaign. We have	developing education and engagement
		worked with a local	tools, creating new partnerships and
		school to create	improving the flood warning and
		water safety leaflets.	forecasting service. Many of our
		SEPA has delivered a	awareness raising activities currently
		range of awareness	underway will continue. Our focus will be
		raising activities	on promoting flood warning and
		through	forecasting service, innovation, education
		campaigning,	and engagement with partners,
		education activities	customers and the public.
		and partnership	
		delivery. We have	
		run national and	
		local digital and	
		direct engagement	
		campaigns to raise	
		awareness of flood	
		risk and SEPA's flood	
		warning service,	
		Floodline. We	
		publish and publicise	
		an electronic	
		newsletter (Flooding	
		Gateway) four times	
		a year which is	
		distributed to a wide	
		audience. We are	
		working with	
		Education Scotland	
		and Scottish	
		Government	
		Resilience team to	
		embed flooding	
		awareness within	
		the Curriculum for	

		I	Free Hannes and	
			Excellence, and	
			resilience partners in	
			Safer Communities	
			programmes. We	
			have also developed	
			an online tool that	
			helps everyone	
			share information	
			on current flooding	
			issues (Report-a-	
			Flood). We have	
			worked in	
			partnership with	
			local authorities,	
			emergency services	
			and community	
			organisations (e.g.	
			Neighbourhood	
			Watch Scotland,	
			Citizens Advice	
			Scotland and others)	
			to share our	
			resources and help	
			to promote	
			preparedness and	
			understanding of	
			how we manage	
			flood risk in	
			Scotland. We have	
			actively supported	
			the Scottish Flood	
			Forum and worked	
			closely with UK	
			agencies to develop	
			joint flooding	

					information.	
Maintenance	G	ACC has a duty to assess designated water bodies and carry out clearance and repair works where such works would substantially reduce flood risk. ACC will produce schedules of clearance and repair works and make these available for public inspection.	ACC	Ongoing	ACC have reviewed the current data set of watercourses to define which are relevant and non-relevant to allow the desktop assessment of risk to be allocated. ACC have undertaken routine maintenance and inspection of hakes across the city. ACC have undertaken clearance works to Lochside Detention pond.	ACC over the next 3 years will be updating our GIS systems to show all relevant and non-relevant water bodies. Within year 4 of the cycle the desktop risk allocation will be complete with the inspection process begun in years 5 and 6. This will be subject to resources being available
Emergency plans/response	G	Aberdeen City Council will work with all CAT 1 and CAT 2 responders to deliver the emergency response plan for Aberdeen City. Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA. Effective management of an emergency response relies on emergency plans that are prepared under the Civil Contingencies Act 2004	Cat 1 and 2 Responders	Ongoing	Aberdeen City Council working with the Local Resilience Partnership has undertaken one exercise simulation looking at how key agencies would respond to a flooding incident, along with holding review meetings following the 2015/16 winter	ACC continue to work with the LRP to ensure strong communication lines in emergency response and ensuring appropriate resource is made available.

		by Category 1 and 2 Responders. The emergency response by these organisations is coordinated through regional and local resilience partnerships.			floods.	
Planning policies	G	National planning policies set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land. In terms of flood risk management, the policy supports a catchment-scale approach to sustainable flood risk management and aims to build the resilience of our cities and towns, encourage sustainable land management in our rural areas, and to address the long-term vulnerability of parts of our coasts and islands. Under this approach, development in areas with medium to high likelihood of flooding should be avoided.	ACC	Ongoing	ACC continue to work within the current planning policy framework, ensuring the flood risk from all sources except ground water are considered throughout the planning process and give appropriate comment on applications.	Over the next 2 years ACC will be updating its guidance to developers on the planning process and minimum requirements for planning applications to ensure that the planning process remains constant and in line with the NELFRP and Surface Water Management Plans.

Denmore (Potentially Vulnerable Area 06/16)

Local Plan District	Local authority	Main catchment
North East	Aberdeen City Council	River Don
		Aberdeen North Coastal



Summary of Progress for Aberdeen City – Denmore

This Potentially Vulnerable Area is located on the northern edge of Aberdeen City. It includes the Denmore and Middleton Park areas of Aberdeen City and covers an area of approximately 5km².

There are no major rivers, however the Glashieburn and Silverburn both pass through culverts in the urban areas.

There are approximately 140 residential and 40 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £570,000 with the majority caused by river flooding. Further information can be found in NELFRMP under PVA06/16.

https://www.aberdeenshire.gov.uk/media/17352/pva-06_16-aberdeen-city-denmore.pdf

Since the NELFRMP was published in May 2016, Aberdeen City council has begun work on the Bridge of Don SWMP and continues to maintain the Lochside Flood Scheme.

Overview of actions to manage flooding in Aberdeen City – Denmore

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/16				G		Α	G	G		G	G		G	G	G		G	G

Summary of progress of actions to manage flood risk in Aberdeen City – Denmore

Action Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
protection study	The Denmore flood protection studies will look at the flood risk from small watercourses and surface water in this area and define types of solutions that may be applicable these areas to prevent or reduce the flood risk.	Aberdeen City Council	2016 - 2021	At present no progress has been made on the delivery of the flood studies in detail within the Bridge of Don/ Denmore PVA. Work has been completed in finalising the outputs from the Aberdeen ICS, which has helped inform the surface water management plans and identify in detail key risk areas within these PVA where further study work is required. This has highlighted the following areas which need flood study works to be done: River Don flood study -Don to be modelled for the entire length within the city boundaries. Works has not	The delay in starting these has been due to resources being unavailable to begin the commissions of consultants and the completion of the Aberdeen Integrated Catchment study. Within year 2 of the FRM cycle the Aberdeen Integrated Catchment Study with be updated to allow for new developments and rainfall to be added. Within year 3 of the FRM all of the highlighted studies will be commissioned, with anticipated results by the end of 2019. These results will identify the flood risk and potential options and locations for works, with the exception of the River Don model which is unlikely to be

					started on this.	completed until 2020.
					Glashieburn flood study - This is to	oompreted until 2020.
					understand the flood risk from the	
					burn, with particular reference to	
					Jesmond Drive & Denmore Gardens.	
					Work has not begun on this.	
					Silver Burn flood study - This is to	
					understand the flood risk from the	
					burn, with particular reference to	
					The Barracks and Broadford Drive.	
					Work has not started on this.	
					Far Burn flood study - This is to	
					understand the flood risk from the	
					burn, with reference to Farburn	
					Terrace. Work has not yet started on	
					this.	
Surface	Α	ACC are creating a	Aberdeen	2016 - 2018	Aberdeen City Council defined 10	By the end of 2019 all surface water
water		surface water	City Council		SWMP areas across the city. Each of	management plans will be completed
plan/study		management plan			these is being done on a risk-based	with actions identified. These actions will
		(SWMP). The plan will			approach, looking at the risk that	advise further investigation to works.
		assess all of the			surface water presents to the area.	They will identify time frames for the
		current data available			The plans look at data from various	actions to be undertaken and within
		with regard to flood			sources, including SEPA, historic data	which FRM cycle they may take place. By
		risk from historical			and the Aberdeen Integrated	2020 all SWMPs will be published on the
		records of flooding,			Catchment Study.	ACC website and available for view by the
		maintenance records			Currently ACC has 2 members of	public. SWMPs will also form part of the
		and existing flood			staff designated full time on the	revised Local Development Plan. Delays
		schemes.			production of these plans. Current	in producing the plans have been due to
					status of the plans are as follows:	unavailability of resources and
					Garthdee to Ferryhill – Not started	complexity of the surface water and
					Denburn Valley - Not started	integrated catchments in Aberdeen.
					Northfield to Seaton – Not started	
					Bridge of Don – Started	
					Bucksburn – Not started	
					Dyce – Completed and Approved	

					III Company	
					Kingswells – Started	
					Peterculter – Started	
					Cults and Millside – Draft Complete	
					Torry and Cove - Draft Complete.	
Strategic	G	Scottish Water will	Scottish	01/01/2016 -	Complete.	Action Complete
mapping		undertake modelling	Water	31/12/2019		
and		of the Nigg and				
modelling		Persley sewer				
		catchments.				
Maintain	G	Aberdeen City Council	Aberdeen	Ongoing	ACC have continued to maintain the	ACC will continue to monitor and
flood		will continue to	City Council		Glashie Burn Flood Protection	maintain the scheme on a risk based
protection		maintain the Glashie			Scheme. We have undertaken a	approach
scheme*		Burn Flood Protection			large vegetation clearance to ensure	
		Scheme (attenuation			the scheme will continue to be	
		pond and culverts)			effective. We monitor the vegetation	
		which reduce the risk			growth	
		of flooding to Lochside				
		Drive from the Glashie				
		Burn.				
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to operate the	SEPA will continue to improve the
forecasting		Forecasting Service is			Scottish Flood Forecasting Service	Scottish Flood Forecasting Service (SFFS)
		a joint initiative			(SFFS) Partnership with the Met	with the Met Office, with daily flood
		between SEPA and the			Office with daily, national flood	guidance statements and flood alerts
		Met Office that			guidance statements issued to	issued as required to enable communities
		produces daily,			Category 1 and 2 agencies (such as	and responders to reduce the impacts of
		national flood			emergency responders, local	flooding.
		guidance statements			authorities and other organisations	
		which are issued to			with flooding management duties).	
		Category 1 and 2			Each daily statement gives an	
		Responders. The flood			assessment of the risk of flooding for	
		guidance statements			the next five days to help enable	
		provide an assessment			these organisations to put	
		of the risk of flooding			preparations in place to reduce the	
		for a five day period			impact of flooding. SEPA's Flood	
		allowing responders			Alert service is freely available to	

Property level protection scheme	G	time to put preparations in place to reduce the impact of flooding. Creation of Property Level Protection Grant Scheme.	Aberdeen City Council	2016 - 2021	everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding. ACC are running a 50% grant funding scheme towards property level protection. This is now in year 3 of a 5 year scheme.	ACC to continue to promote the Flood Grant Scheme for the remaining two years of the funding.
Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.		Ongoing	Aberdeen City Council have continued to promote its Property Level Flood Grant Scheme along with the use of Social media to inform of flood risk. ACC have also used social media to undertake awareness raising as part of our Winter Main campaign. ACC have worked with a local school to create water safety leaflet.	ACC are looking to install a network of local gauges to allow the community assess the risk from the small burns and water course which may affect their property
Awareness raising	G	Engagement with local community following a	Responsible authority	Ongoing	Aberdeen City Council has continued to promote its Property Level Flood	Over the remaining years of the cycle, Aberdeen City Council will continue to
J		flood incident /	,		Grant Scheme along with the use of	work on raising awareness. Following the

historic issues. Initial community engagement with both **Community Council** and the wider community, exploring possible options regarding SEPA and **Local Authority** engagement. Community engagement presentation and appropriate advice short term strategic development.

social media to inform of flood risk. We have also used social media to undertake awareness raising as part of our Winter Maintenance campaign. We have worked with a local school to create water safety leaflets.

SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence. and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our

completion of the Surface Water Management Plans, targeted awareness raising within those areas of risk will be undertaken. We will also be working with SEPA on the launch of the Costal Flood Warning System.

SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
Maintenan ce	G	ACC has a duty to assess designated water bodies and carry out clearance and repair works where such works would substantially reduce flood risk. ACC will produce schedules of clearance and repair works and make these available for public inspection	Aberdeen City Council, asset / land managers	Ongoing	ACC have reviewed the current data set of watercourses to define which are relevant and non-relevant to allow the desktop assessment of risk to be allocated. ACC have undertaken routine maintenance and inspection of hakes across the city. ACC have undertaken clearance work to Lochside Detention pond.	Over the next 3 years ACC will be updating the GIS systems to show all relevant and non-relevant water bodies. Within year 4 of the cycle, the desktop risk allocation will be complete with the inspection process begun in years 5 and 6. This will be subject to resources being available.
Emergency plans/resp onse	G	Aberdeen City Council will work with all CAT 1 and CAT 2 responders to deliver the emergency response plan for Aberdeen City. Providing an emergency response to flooding is the responsibility of many organisations, including local	Category 1 and 2 Responders	Ongoing	Aberdeen City Council working with the local resilience partnership has undertaken one exercise simulation looking at how key agencies would respond to a flooding incident, along with holding review meetings following the 2015/16 winter floods.	ACC continue to work with the LRP to ensure strong communication lines in emergency response and ensuring appropriate resource is made available.

Planning policies	G	authorities, the emergency services and SEPA. Effective management of an emergency response relies on emergency plans that are prepared under the Civil Contingencies Act 2004 by Category 1 and 2 Responders. The emergency response by these organisations is coordinated through regional and local resilience partnerships. National planning policies set out Scottish Ministers' priorities for the operation of the	Planning Authority	Ongoing	ACC continue to work within the current planning policy framework ensuring the flood risk from all sources, except ground water, are considered thought the planning	Over the next 2 years ACC will be updating its guidance to developers on the planning process and minimum requirements for planning applications to ensure that the planning process remains
		operation of the planning system and for the development and use of land. In terms of flood risk management, the policy supports a catchment-scale approach to sustainable flood risk			considered thought the planning process and give appropriate comment on applications.	ensure that the planning process remains constant and in line with the NELFRP and Surface Water Management Plans.
		management and aims to build the resilience of our cities and towns, encourage				

sustainable land		
management in our		
rural areas, and to		
address the long-term		
vulnerability of parts		
of our coasts and		
islands. Under this		
approach,		
development in areas		
with medium to high		
likelihood of flooding		
should be avoided.		

Westhill (Potentially Vulnerable Area 06/17)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Dee (Grampian)
	Aberdeen City Council	



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Summary of Progress for Westhill

This Potentially Vulnerable Area is based around Westhill. It is approximately 20km2. The A944, B119, and the B979 pass through the area.

The main watercourse is the Ord Burn, which is a tributary of the River Dee.

There are approximately 90 residential and 10 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £77,000 with the majority caused by surface water flooding. Further information can be found in NELFRMP under PVA 06/17.

https://www.aberdeenshire.gov.uk/media/17350/pva-06 17-westhill.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Westhill area.

Overview of actions to manage flooding in Westhill

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/17						Α	G			G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Westhill (PVA 06/17)

Action	Status	Description	Delivery Lead	Planned	Interim progress	Planned actions to complete
	(Red;			Dates		
	Amber;					
	Green)					
Surface water	Α	A study to prepare Surface	Aberdeenshire	2016 - 2021	Westhill flood areas to be	Peterhead and Aboyne areas are
plan/study		Water Management Plan	Council		mapped in coming weeks and	current priority areas for reviewing
		(SWMP) to generate			flood areas from various	Surface Water Management Plans.
		increased understanding of			sources reviewed to identify	With Inverurie and Kintore to
		the causes, probability and			areas for further investigation	follow in the coming months.
		consequences of surface			for discussing with Scottish	-
		water flooding and to			Water.	
		evaluate options for				
		surface water flood				
		management.				
Strategic	G	Scottish Water will	Scottish Water	01/01/2016 -	Complete	Action Complete
mapping and		undertake modelling of the		31/12/2019		
modelling		Persley sewer catchment.				
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to	SEPA will continue and improve the

forecasting		Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of	Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
Self help	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit,	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

		in stalling				
		installing				
		property level protection,				
		signing up to Floodline and				
		Resilient Communities				
		initiatives, and				
		ensuring that properties				
		and businesses are insured				
		against flood damage.				
Awareness	G	Over the six years of the	Responsible	Ongoing	SEPA has delivered a range of	SEPA will continue to raise
raising		Plan, 2016-2022,	Authorities		awareness raising activities	awareness of flood risk through
		Aberdeenshire Council will			through campaigning,	campaigning, developing education
		seek opportunities to raise			education activities and	and engagement tools, creating
		awareness of both flood			partnership delivery. We have	new partnerships and improving
		risk and actions that enable			run national and local digital	the flood warning and forecasting
		individuals, homes and			and direct engagement	service. Many of our awareness
		businesses to reduce the			campaigns to raise awareness	raising activities currently
		overall impact of flooding.			of flood risk and SEPA's flood	underway will continue. Our focus
		a community and a comment			warning service, Floodline.	will be on promoting flood warning
					We publish and publicise an	and forecasting service, innovation,
					electronic newsletter	education and engagement with
					(Flooding Gateway) four times	partners, customers and the public.
					a year which is distributed to	partiters, customers and the public.
					a wide audience. We are	
					working with Education	
					Scotland and Scottish	
					Government Resilience team	
					to embed flooding awareness	
					within the Curriculum for	
					Excellence, and resilience	
					partners in Safer Communities	
					programmes. We have also	
					developed an online tool that	
					helps everyone share	
					information on current	
					flooding issues (Report-a-	

					Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.	
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.

		inspection.				
Emergency	G	Providing an emergency	Category 1	Ongoing	SEPA continues to support	Grampian Emergency Planning
plans/response		response to flooding is the	and 2		emergency planning.	Unit's emergency plan is reviewed
		responsibility of many	Responders			and updated when required.
		organisations, including			Grampian Emergency	
		local authorities, the			Planning Unit have in place	
		emergency services and			and maintain Emergency	
		SEPA.			Plans for all contingencies	
Planning Policy	G	As a consultee on planning	Planning	Ongoing	Aberdeenshire Council and	Continue to consider flood risk
		applications,	Authority		SEPA continues to advise on	when determining planning
		Aberdeenshire Council's			planning applications.	applications. Ensure final version of
		Flood & Coast Protection				emerging 2021 Aberdeenshire Local
		team				Development Plan maintains robust
		will work directly with				policy to avoid new development in
		colleagues in the Planning				areas that are at risk of flooding or
		Service to ensure that				would increase flood risk
		appropriate policies and				elsewhere, and encourages the
		measures are put in place				most sustainable approach to
		to reduce flood risk.				managing surface water.

Deeside (Potentially Vulnerable Area 06/18)

Local Plan District	Local authority	Main catchment
North East	Aberdeen City Council	River Dee (Grampian) Aberdeen South
		Coastal



Summary of Progress for Deeside

This Potentially Vulnerable Area includes the centre and west of the city of Aberdeen. It is approximately 75km2 and includes the centre of Aberdeen City and several vital transport routes which pass through it.

The main river is the River Dee and there are also a number of small watercourses, most of which are culverted for all or part of their route through the city.

There are approximately 8,100 residential and 2,000 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £12 million with the majority caused by river flooding. Further information can be found in NELFRMP under PVA 06/18.

https://www.aberdeenshire.gov.uk/media/17362/pva-06 18-aberdeen-city-deeside.pdf

Since the NELFRMP was published in May 2016, Aberdeen City Council has completed 2 flood studies into the flood risk at Footdee and Inchgarth Road. Surface Water Management Plans have been completed for Cults and Millside. Better understanding of the flood risk within the Merchant Quarter has been gained. A new flood warning alert has been introduced for Aberdeen Coastal area.

Overview of actions to manage flooding in Aberdeen City – Deeside

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies	
06/18			G	A		Α	G	G	G	G	G	Α	G	G	G		G	G	

Summary of progress of actions to manage flood risk in Aberdeen City – Deeside

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
New flood warning	G	Flood warning is required for communities at risk of coastal flooding along the Aberdeenshire coast from Peterhead to Montrose. A flood warning system will be developed and implemented. The geographical extent of specific flood warning areas will be developed as part of this process.	SEPA	2017 - 2018	SEPA has completed development of a flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeen City Council to develop procedures for the new flood warning service. A new flood warning area has been introduced for Aberdeen Coastal area.	SEPA will continue to operate the flood warning service.
Flood protection study - Footdee	G	Aberdeen City Council will undertake a flood protection study in the	Aberdeen City Council	2019 -2021	The Footdee coastal study has been completed. The study looked at the risk of	Study to be reviewed as part of the wider beach project in 2019 to determine next stages of the project.

		Footdee area of Aberdeen to improve understanding of coastal flood risk, including wave overtopping.			wave overtopping within the area. The study has been issued to ACC for approval and is currently being reviewed.	
Flood protection study - Deeside	A	Aberdeen City Council will undertake flood protection studies across the City to address risk from rivers, small watercourses and surface water. Outputs from the Aberdeen Integrated Catchment Study will be considered.	Aberdeen City Council	2016 - 2018	At present, progress has been made on the delivery of the flood studies in detail within the Deeside PVA. Work has been completed in finalising the outputs from the Aberdeen ICS which has helped inform the surface water management plans and identify in detail key risk areas where further study work is required. Inchgarth Road flood study has been completed and the Riverside Drive Floodgate at Bridge of Dee has been built, following the completion of a local flood study. The following are the flood study areas which have also been identified to be completed: River Dee flood study - Dee to be modelled for the	The delay in starting these has been due to resources not being available to begin the commissions of consultants and the completion of the Aberdeen Integrated Catchment study. Within year 2 of the FRM cycle the Aberdeen Integrated Catchment study with be updated to allow for new developments and rainfall to be added. Within year 3 of the FRM all of the highlighted studies will be commissioned, with anticipated results by end of 2019. These results will identify the flood risk and potential options and locations for works, with the exception of the River Dee model which is unlikely to be completed until 2020.

					not started on this.	
					Cults Burn flood study -	
					This is to understand the	
					flood risk from the burn,	
					with particular reference to	
					Kirk Brae. Work has not	
					begun on this.	
					Ferryhill Burn flood study -	
					This is to understand the	
					flood risk from the burn,	
					with particular reference to	
					the Ferryhill area. Work has	
					not yet started on this.	
					Den Burn updated flood	
					study - This is to	
					understand the flood risk	
					from the burn with	
					reference to Merchant	
					Quarter and Fountainhall	
					Road. Work has not begun	
					on this yet.	
Surface water	Α	Aberdeen City Council is	Aberdeen City	2016 - 2018	Aberdeen City Council	By the end of 2019 all surface water
plan/study		developing a surface	Council		defined 10 surface water	management plans will be completed
		water management			plan areas across the city.	with actions identified. These actions
		plan (SWMP) that			Each of these is being done	will advise further investigation to
		addresses flood risk			on a risk-based approach,	works. They will identify time frames for
		across the City. The plan			looking at the risk that	the actions to be undertaken and within
		will assess all of the			surface water presents to	which FRM cycle they may take place.
		current data available			the area. The plans look at	By 2020 all SWMP will be published on
		with regard to flood risk			data from various sources,	the ACC website and available for view
		from historical records			including SEPA, historic	by the public. SWMPs will also form
		of			data and the Aberdeen	part of the revised Local Development
		flooding/maintenance			Integrated Catchment	Plan. Delays in producing the plans have
		and existing flood			study.	been due to unavailability of resources
		schemes.			•	•
		schemes.			Currently ACC has 2	and the complexity of the surface water

					members of staff	and integrated catchments in Aberdeen.
					designated full time on the	and mospitated easemments in men decim
					production of these plans.	
					Current status of the plans	
					are as follows:	
					Garthdee to Ferryhill – Not	
					started	
					Denburn Valley -Not	
					started	
					Northfield to Seaton – Not	
					started	
					Bridge of Don – Started	
					Bucksburn – Not started	
					Dyce – Completed and	
					Approved	
					Kingswells – Started	
					Peterculter – started	
					Cults and Millside – Draft	
					Complete	
					Torry and Cove - Draft	
					Complete.	
Strategic	G	Scottish Water will	Scottish Water	01/01/2016 -	Complete	Action Complete
mapping and		undertake modelling of		31/12/2019		
modelling		the Persley sewer				
		catchment.				
Maintain flood	G	Aberdeen City Council	Aberdeen City	Ongoing	ACC have continued to	ACC will continue to monitor and
protection		will maintain the Fraser	Council		maintain the Fraser Place	maintain the scheme on a risk-based
scheme		Road Flood Protection			Flood Protection Scheme	approach.
		Scheme which reduces			and undertaken clearance	
		the risk of flooding from			works when required.	
		the Gilcomston Burn,				
		Stronsay Park Flood				
		Protection works which				
		prevent flooding from				
		the Den Burn and the				

		beach revetments.				
Maintain flood warning	G	SEPA will continue to maintain the 'Aberdeen (Dee)' and 'Maryculter' flood warning areas which are part of the Dee river flood warning scheme.	SEPA	Ongoing	SEPA has continued to operate the flood warning service.	SEPA will continue to operate the flood warning service.
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.
Property level	G	Creation of Property	ACC		ACC are running a 50%	ACC to continue to promote the Flood

protection		Level Grant Scheme.			grant funding scheme	Grant Scheme for the remaining two
scheme					towards property level	years of the funding.
					protection. This is now in	
					year 3 of a 5 year scheme.	
Community	Α	Aberdeen City Council		Ongoing	Within the first 2 years of	Over years 3 and 4 of the cycle further
flood action		will create flood action			the cycle no progress has	understanding of the flood risk is to be
groups		groups in the Merchant			been made on the creation	gained so that the appropriate group
		Quarter and in the Eday			of flood action groups for	locations can be set up. These will be
		Court and Summerhill			the Merchant Quarter and	based on the results of the flood
		areas of Aberdeen.			in the Queens Cross /	modelling undertaken as part of the
					Fountainhall area of	Merchant Quarter scheme and the Den
					Aberdeen. Work has been	Burn Flood study.
					progressing in	
					understanding the extent	
					of the flood risk within the	
					Merchant Quarter.	
Self help	G	Everyone is responsible	-	Ongoing	Aberdeen City Council have	ACC are looking to install a network of
		for protecting			continued to promote its	local gauges to allow the community
		themselves and their			Property Level Flood Grant	assess the risk from the small burns and
		property flooding.			Scheme along with the use	water course which may affect their
		Property and business			of Social media to inform	property
		owners can take simple			of flood risk. ACC have also	
		steps to reduce damage			used social media to	
		and disruption to their			undertake awareness	
		homes and businesses			raising as part of our	
		should flooding happen.			Winter Main campaign.	
		This includes preparing			ACC have worked with a	
		a flood plan and flood			local school to create water	
		kit, installing			safety leaflet.	
		property level				
		protection, signing up to				
		Floodline and Resilient				
		Communities initiatives,				
		and				
I		ensuring that properties				

				1		
		and businesses are				
		insured against flood				
		damage.				
		ACC will be promoting				
		self-help through work				
		with the community.				
		This will include the				
		creation of a Flood				
		Guard Grant Scheme to				
		assist people with				
		putting in Property				
		Level Protection.				
Awareness	G	ACC will be undertaking	Responsible	Ongoing	SEPA has delivered a range	Over the remaining years of the cycle,
raising		a number of community	Authorities		of awareness raising	Aberdeen City Council will continue to
		events to promote			activities through	work on raising awareness. Following
		awareness of the risk of			campaigning, education	the completion of the Surface Water
		flooding and what can			activities and partnership	Management Plans we can target
		be done to reduce the			delivery. We have run	awareness raising within those areas of
		impact of flooding. As			national and local digital	risk. We will also be working with SEPA
		part of this we will be			and direct engagement	on the launch of the Coastal Flood
		looking to create flood			campaigns to raise	Warning system and supporting all
		action groups and			awareness of flood risk and	incentive around the Flood Warning
		community resilience			SEPA's flood warning	System.
		groups with regard to			service, Floodline. We	
		flooding. These groups			publish and publicise an	ACC are also looking to install a network
		will help promote the			electronic newsletter	of local gauges to allow the community
		risk that flooding			(Flooding Gateway) four	to assess the risk from the small burns
		presents as well as			times a year which is	and watercourses which may affect
		provide practical advice			distributed to a wide	their property.
		to the community they			audience. We are working	
		serve.			with Education Scotland	
					and Scottish Government	
					Resilience team to embed	
					flooding awareness within	
					the Curriculum for	

	- 11	
	Excellence, and resilience	
	partners in Safer	
	Communities programmes.	
	We have also developed an	
	online tool that helps	
	everyone share	
	information on current	
	flooding issues (Report-a-	
	Flood). We have worked in	
	partnership with local	
	authorities, emergency	
	services and community	
	organisations (e.g.	
	Neighbourhood Watch	
	Scotland, Citizens Advice	
	Scotland and others) to	
	share our resources and	
	help to promote	
	preparedness and	
	understanding of how we	
	manage flood risk in	
	Scotland. We have actively	
	supported the Scottish	
	Flood Forum and worked	
	closely with UK agencies to	
	develop joint flooding	
	information.	
	Aberdeen City Council have	
	continued to promote it's	
	Property Level Flood Grant	
	Scheme along with the use	
	of social media to inform of	
	flood risk. We have also	
	used social media to	
	used social inleula to	

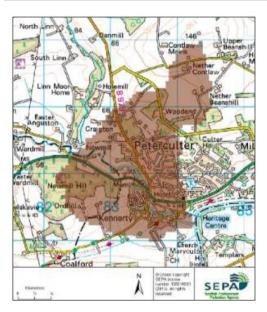
					undertake awareness raising as part of our Winter Maintenance campaign. We have worked with a local school to create a water safety leaflet.	
Maintenance	G	ACC has a duty to assess designated water bodies and carry out clearance and repair works where such works would substantially reduce flood risk. ACC will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeen City Council, asset / land managers	Ongoing	ACC have reviewed the current data set from watercourses to define which are relevant and non-relevant to allow the desktop assessment of risk to be allocated. ACC have undertaken routine maintenance and inspection of hakes across the city.	Over the next 3 years, ACC will be updating the GIS systems to show all relevant and non-relevant water bodies. Within the year 4 of the cycle, the desktop risk allocation will be complete with the inspection process beginning in years 5 and 6. This will be subject to resources being available.
Emergency plans/response	G	Aberdeen City Council will work with all CAT 1 and CAT 2 responders to deliver the emergency response plan for Aberdeen City. Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA. Effective management of an	Category 1 and 2 Responders	Ongoing	Aberdeen City Council working with the local resilience partnership has undertaken one exercise simulation looking at how key agencies would respond to a flooding incident, along with holding review meetings following the 2015/16 winter floods.	ACC continue to work with the LRP to ensure strong communication lines in emergency response and ensuring appropriate resource is made available.

				1		
		emergency response				
		relies on emergency				
		plans that are prepared				
		under the Civil				
		Contingencies Act 2004				
		by Category 1 and 2				
		Responders. The				
		emergency response by				
		these organisations is				
		coordinated through				
		regional and local				
		resilience partnerships.				
Planning policies	G	National planning	Planning	Ongoing	ACC continue to work	Over the next 2 years ACC will be
		policies set out Scottish	Authority		within the current planning	updating its guidance to developers on
		Ministers' priorities for	·		policy framework ensuring	the planning process and minimum
		the operation of the			the flood risk from all	requirements for planning applications
		planning system and for			sources, except ground	to ensure that the planning process
		the development and			water, are considered	remains constant and in line with the
		use of land. In terms of			thought the planning	NELFRP and Surface Water
		flood risk management,			process and give	Management Plans.
		the policy supports a			appropriate comment on	S
		catchment-scale			applications.	
		approach to sustainable			1	
		flood risk management				
		and aims to build the				
		resilience of our cities				
		and towns, encourage				
		sustainable land				
		management in our				
		rural areas, and to				
		address the long-term				
		vulnerability of parts of				
		our coasts and islands.				
		Under this approach,				
		development in areas				

	with medium to high		
	likelihood of flooding		
	should be avoided.		

Peterculter (Potentially Vulnerable Area 06/19)

Local Plan District	Local authority	Main catchment
North East	Aberdeen City Council	River Dee (Grampian)



Summary of Progress for North of Peterculter

This Potentially Vulnerable Area covers the west of Peterculter and is approximately 4km². The A93, North Deeside road, passes through the area.

The main river is the Culter Burn which flows through the south west of Peterculter before discharging into the River Dee.

There are approximately 380 residential properties and 20 non-residential properties at risk of flooding. The Annual Average Damages are approximately £300,000. Further information can be found in the LFRMP under PVA 06/19.

https://www.aberdeenshire.gov.uk/media/17354/pva-06_19-peterculter.pdf

Since the NELFRMP was published in May 2016, key progress has been made on the creation of a flood model for the Paddock and Millside areas of Peterculter.

Overview of actions to manage flooding in Peterculter

Poo	protect ne/work	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/19 A	\				G	Α	G			G	G		G	G	G		G	G

Summary of progress of actions to manage flood risk in Peterculter

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned date	Interim progress	Planned actions to complete
Flood protections scheme/works	A	Aberdeen City Council will develop and implement flood protection works in Peterculter to reduce flood risk from the Culter Burn. Focus will be on Millside Street, Millside Road, Millside Terrace and The Paddock.	Aberdeen City Council	01/05/2016 - 31/12/2018	The flood study for Peterculter has been progressing. The hydraulic model has been constructed, the river flows have been agreed with sepa and model runs have been completed. The results from initial model runs are currently inconstant with the photographic evidence we have within the Paddock area. ACC are working with the consultants to understand and resolve this	ACC within year 3 of the cycle will install flow gauges to help verify the model outputs. In Yr 4 the model runs and Feasibility report will be completed. In year 5 detailed design and FPO will be starred in yr 6 we will be on site
Natural flood management	G	Aberdeen City Council will	Aberdeen City Council	01/01/2017 - 31/21/2021	No Progress has been made with regards to the NFM study on the	Following the completion of the Peterculter Flood study a review of

study		undertake a natural flood management study on the Gormack and Leuchar Burns to reduce flood risk in Peterculter. This will be done in partnership with the Dee Catchment Partnership and Aberdeenshire Council.			Leuacher and Gormach burns.	the outputs of this will formulate a plan for a more detail study with regard to NFM on the Feeder Burns. Along with the AWPR there has been a number of changes to the feeders burns within this catchment which all need to be included into the NFM study. The study will be commissioned in yr 4 of the cycle
Surface water plan/study	A	Aberdeen City Council is developing a surface water management plan (SWMP) that addresses flood risk across the City. Outputs from the Aberdeen Integrated Catchment Study will inform the SWMP.	ACC	01/07/2016 - 31/12/2018	Aberdeen city council defined 10 surface water plan areas across the city. Each of these is being done on a risk based approach looking at the risk that surface water presents to the area. The plans look at data from various source including SEPA/Historic and the Aberdeen Integrated Catchment study Currently ACC has 2 members of staff designated full time on the production of these plans. Current status of the plans are as follows:-Garthdee to Ferryhill – Not started Denburn Valley -Not started Northfield to Seaton – Not started Bridge of Don – Started Bucksburn – Not started Dyce – Completed and Approved Kingswells – Started	By the end of 2019 all surface water management plans will be completed with actions identified. These actions will over further investigation to works. They will identify time frames for the actions to be undertaken and within which FRM cycle they may take place. By 2020 ALL SWMP will be published on the ACC website and available for view but the public. SWMP will also form part of the revised Local Development Plan. Delays in producing the plans have been due to availability of resources and complexity of the surface water and integrated catchments in Aberdeen,

Strategic mapping and modelling	G	Scottish Water will undertake modelling of the Nigg sewer catchment.	Scottish Water	01/01/2016 - 31/12/2019	Petercuter – started Cults and Millside – Draft Complete TOrry and Cove - Draft Complete Complete	Action Complete
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public
Property level protection	G		Aberdeen City Council	2016 - 2021	ACC are running a 50% grant funding scheme towards property	ACC to continue to promote the Flood grant scheme for the

scheme					level protection this is now in year	reminder two years of the funding
					3 of a 5 year scheme	
Self help	G	ACC will be promoting self-help through work with the community. This will include the creation of a Flood Guard Grant Scheme to assist people with putting in Property Level Protection.		Ongoing	Aberdeen City Council have continued to promote its Property Level Flood Grant Scheme along with the use of Social media to inform of flood risk. ACC have also used social media to undertake awareness raising as part of our Winter Main campaign. ACC have worked with a local school to create water safety leaflet.	ACC are looking to install a network of local gauges to allow the community assess the risk from the small burns and water course which may affect their property
Awareness	G	Engagement with	Responsible	Ongoing	SEPA has delivered a range of	SEPA will continue to raise
raising		local community following a flood incident / historic issues. Initial Community engagement with both Community Council and the wider community, exploring possible options regarding SEPA and Local Authority engagement. Community engagement presentation and appropriate advice – short term strategic development	Authorities		awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding	awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

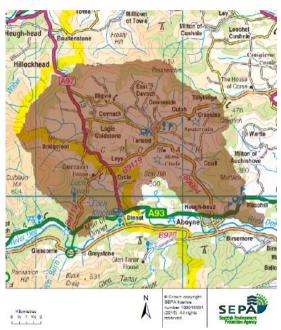
					issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeen City Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeen City Council, asset / land managers	Ongoing	ACC have review the current data set of watercourse to define which are relevant and non relevant to allow the desktop assessment of risk to be allocated. ACC have undertaken routine maintenacne and inspection of Hakes across the city.	ACC over the next 3 years will be updating our GIS systems to show all relevant and non relevant water bodies. Within the year 4 of the cycle the desktop risk allocation will be complete with the inspection process begun in years 5 and 6. This will be subject to resource being available
Emergency plans/response	G	Providing an emergency	Category 1 and 2	Ongoing	Aberdeen City Council working with Local resilience partnership	ACC continue to work with the LRP to ensure strong communications

		response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Responders		has undertaken one exercise simulation looking at how key agencies would respond to a flooding incident along with holding review meetings following the 2015/16 winter floods.	lines in emergency response and ensuring appropriate resource is made available.
Planning policies	G	As a consultee on planning applications, Aberdeen City Council's Flood Risk team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	ACC continue to work within the current planning policy framework ensuring the flood risk from all source except ground water ware considered thought the planning process and give appropriate comment on applications. SEPA exercises its planning functions with a view to reducing overall flood risk. We effectively contribute to the delivery of sustainable flood risk management and we support the delivery of FRM Strategies and local FRM Plans. In line with the management actions that accord with national planning policies we will object to development at medium to high risk of flooding when it is contrary to the risk framework set out in Scottish Planning Policy. We will also continue to engage at the offset of the development plan process and encourage planning authorities to undertake a Strategic	ACC over the next 2 years will be updating its guidance to developers on the planning process and minimum requirements for planning applications to ensure that the planning process remains constant and in line with the NELFRP and Surface Water Management plans

		Flood Risk Assessment to inform their spatial strategy.	

Aboyne (Potentially Vulnerable Area 06/20)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Dee (Grampian)



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Summary of Progress for Aboyne

This Potentially Vulnerable Area includes Tarland and Logie Coldstone, as well as the northern part of the town of Aboyne. It is approximately 125km2 and located on the eastern edge of the Cairngorms National Park. The A93 and the A97 pass through the area.

The River Dee flows just to the south of the Potentially Vulnerable Area. Several tributaries of the Dee including the Tarland Burn flow through the area.

There are approximately 60 residential and 20 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £240,000 with the majority from river flooding.

Further information can be found in NELFRMP under PVA 06/20.

https://www.aberdeenshire.gov.uk/media/17361/pva-06 20-aboyne.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Aboyne area

Overview of actions to manage flooding in Aboyne

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/20						Α	G		G	G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Aboyne (PVA 06/20)

Action	Status (Red; Amber;	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
Surface water plan/study	A A	A study to prepare Surface Water Management Plan (SWMP) to generate increased understanding of the causes, probability and consequences of surface water flooding and to evaluate options for surface water flood management.	Aberdeenshire Council	2018 - 2019	Aboyne flood areas to be mapped in coming weeks and flood areas from various sources reviewed to identify areas for further investigation for discussing with Scottish Water.	Peterhead and Aboyne areas are current priority areas for reviewing Surface Water Management (Early 2019).
Strategic	G	Scottish Water will	Scottish Water	01/01/2016 -	Complete	Action Complete

mapping and modelling		undertake modelling of the Aboyne sewer		31/12/2017		
		catchment.				
Maintain flood warning	G	SEPA will continue to maintain the 'Aboyne' flood warning area which is part of the Dee river flood warning scheme.	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.
Self help	G	Everyone is responsible for protecting	-	Ongoing	Aberdeenshire Council continue to make PLP products available at	
		themselves and their			cost price. New sandbag	

		property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
Awareness raising	G	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					Scottish Government Resilience	
					team to embed flooding awareness within the Curriculum	
					for Excellence, and resilience	
					partners in Safer Communities	
					programmes. We have also	
					developed an online tool that	
					helps everyone share information	
					on current flooding issues	
					(Report-a-Flood). We have	
					worked in partnership with local	
					authorities, emergency services	
					and community organisations	
					(e.g. Neighbourhood Watch	
					Scotland, Citizens Advice Scotland	
					and others) to share our	
					resources and help to promote	
					preparedness and understanding	
					of how we manage flood risk in	
					Scotland. We have actively	
					supported the Scottish Flood	
					Forum and worked closely with	
					UK agencies to develop joint	
					flooding information.	
					Ongoing liaison with community	
					councils on resilience.	
					Aberdeenshire Council advise	
					householders directly on	
					property level protection	
					products and actions they can	
					take.	
Maintenance	G	Local authorities have	Aberdeenshire	Ongoing	Publicly accessible page available	Aberdeenshire Council will continue
		a duty to assess	Council, asset		on website, updated nightly,	with its routine watercourse
		watercourses and carry	/ land		showing schedules of clearance	inspections and schedule any

		out clearance and	managers		and repair as assessments take	clearance and repair work.
			Illallagets		•	Information available publically.
		repair works where such works would			place.	information available publically.
		substantially reduce				
		flood risk.				
		Aberdeenshire Council				
		will produce				
		schedules of clearance				
		and repair works and				
		make these available				
		for public inspection.				
Emergency	G	Providing an	Category 1	Ongoing	SEPA continues to support	Grampian Emergency Planning Unit's
plans/response		emergency response to	and 2		emergency planning.	emergency plan is reviewed and
		flooding is the	Responders			updated when required
		responsibility of many			Grampian Emergency Planning	·
		organisations,			Unit have in place and maintain	
		including local			Emergency Plans for all	
		authorities, the			contingencies	
		emergency services			Contingencies	
		and SEPA.				
Planning Policy	G	As a consultee on	Planning	Ongoing	Aberdeenshire Council and SEPA	Continue to consider flood risk when
rialling rolley	J	planning applications,	Authority	Origonia	continues to advise on planning	determining planning applications.
		Aberdeenshire	Authority		applications.	Ensure final version of emerging
		Council's Flood & Coast			applications.	Cairngorms National Park Plan 2020
						<u> </u>
		Protection team				??? maintains robust policy to avoid
		will work directly with				new development in areas that are
		colleagues in the				at risk of flooding or would increase
		Planning Service to				flood risk elsewhere, and encourages
		ensure that				the most sustainable approach to
		appropriate policies				managing surface water
		and measures are put				
		in place to reduce				
		flood risk.				

Banchory and Torphins (Potentially Vulnerable Area 06/21)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Dee (Grampian)



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Summary of Progress for Banchory and Torphins

This Potentially Vulnerable Area is based around Banchory and Torphins. It is approximately 97km2. The A93 and A980 pass through the area.

The main rivers are the River Dee and its tributaries, the Burn of Canny and the Beltie Burn.

There are approximately 30 residential and 50 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £200,000 with the majority due to surface water flooding. Further information can be found in NELFRMP under PV06/21.

https://www.aberdeenshire.gov.uk/media/17356/pva-06 21-banchory-and-torphins.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Banchory and Torphins area.

Overview of actions to manage flooding in Banchory and Torphins

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/21							G		G	G			G	G	G		G	G

Summary of progress of actions to manage flood risk in Banchory and Torphins (PVA 06/21)

Action	Status	Description	Delivery Lead	Panned	Interim progress	Planned actions to complete
	(Red;			Date		
	Amber;					
	Green)					
Strategic	G	Scottish Water will undertake	Scottish	01/01/2016	Banchory - Started	On track to deliver within agreed
mapping and		modelling of the Banchory and	Water	-	Torphins- Complete	LFRMP timescales
modelling		Torphins sewer catchment.		31/12/2019		
Maintain flood	G	SEPA will continue to maintain	SEPA	Ongoing	SEPA has continued	SEPA will continue to operate the
warning		the 'Banchory' flood warning			to operate the flood	flood warning service
		area which is part of the Dee			warning service	
		river flood warning scheme.				
Flood forecasting	G	The Scottish Flood Forecasting	SEPA	Ongoing	SEPA has continued	SEPA will continue and improve the
		Service is a joint initiative			to operate the	Scottish Flood Forecasting Service
		between SEPA and the Met			Scottish Flood	(SFFS) with the Met Office, with daily
		Office that produces daily,			Forecasting Service	Flood Guidance Statements and
		national flood guidance			(SFFS) Partnership	regional Flood Alerts issued as
		statements which are issued to			with the Met Office	required to enable communities and

		Category 1 and 2			with daily, national	responders to reduce the impacts of
		Responders. The flood guidance			Flood Guidance	flooding. SEPA is currently exploring
		statements provide an			Statements issued to	options to develop a public version of
		assessment of the risk of			Category 1 and 2	the daily Flood Guidance Statement to
		flooding for a five day period			agencies (such as	provide better and earlier information
		allowing responders time to put			emergency	to the public.
		preparations in place to reduce			responders, local	·
		the impact of			authorities and other	
		flooding.			organisations with	
		-			flooding	
					management duties)	
					and regional Flood	
					Alerts issued to the	
					public. Each daily	
					statement gives an	
					assessment of the	
					risk of flooding for	
					the next five days to	
					enable these	
					organisations to put	
					preparations in place	
					to reduce the impact	
					of flooding. SEPA's	
					Flood Alert service is	
					freely available to	
					everyone and	
					enables communities	
					to be aware and	
					prepared to reduce	
					the impacts of	
					flooding.	
Self help	G	Everyone is responsible for	-	Ongoing		
		protecting themselves and their			Aberdeenshire	
		property flooding. Property and			Council continue to	

		business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
Awareness raising	G	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

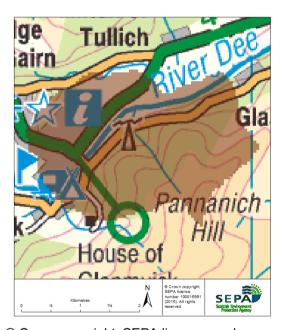
	audience. We are	
	working with	
	Education Scotland	
	and Scottish	
	Government	
	Resilience team to	
	embed flooding	
	awareness within the	
	Curriculum for	
	Excellence, and	
	resilience partners in	
	Safer Communities	
	programmes. We	
	have also developed	
	an online tool that	
	helps everyone share	
	information on	
	current flooding	
	issues (Report-a-	
	Flood). We have	
	worked in	
	partnership with	
	local authorities,	
	emergency services	
	and community	
	organisations (e.g.	
	Neighbourhood	
	Watch Scotland,	
	Citizens Advice	
	Scotland and others)	
	to share our	
	resources and help	
	to promote	
	preparedness and	
	understanding of	

					how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions	
Maintenance	G	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available	Aberdeenshire Council, asset / land managers	Ongoing	they can take. Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
Emergency plans/response	G	for public inspection. Providing an emergency response to flooding is the responsibility of many organisations, including local	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.

		authorities, the emergency services and SEPA.			Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water

Ballater (Potentially Vulnerable Area 06/22)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Dee (Grampian)



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Summary of Progress for Ballater

This Potentially Vulnerable Area is based around Ballater and is approximately 7km².

The area is located within the Cairngorms National Park and the A93 passes through it.

The main river is the River Dee, which is a Special Area of Conservation for salmon, otters and freshwater pearl mussels.

There are approximately 200 residential and 40 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £230,000. Almost all the damages are caused by river flooding. Further information can be found in NELFRMP under 06/22.

https://www.aberdeenshire.gov.uk/media/17359/pva-06 22-ballater.pdf

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Ballater area. However work has begun on the Ballater Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation.

Overview of actions to manage flooding in Ballater

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Seif help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/22				G			G		G	G		G	G	G	G		G	G

Summary of progress of actions to manage flood risk in Ballater (PVA 06/22)

Action	Status	Description	Delivery Lead	Planned	Interim progress	Planned actions to complete
	(Red;			Dates		
	Amber;					
	Green)					
Flood	G	A flood protection study	Aberdeenshire	2017 - 2019	Stakeholder and public engagement	Project completion - Spring
protection		is required to consider	Council		2 - Winter 2018	2019
study		flood protection works to				
		reduce the risk of				
		flooding in Ballater from				
		the River Dee. The flood				
		protection study should				
		primarily focus on direct				
		defences, relocation of				
		properties and property				
		level protection, but				
		other actions may also be				
		considered in order to				
		develop the most				

				1		
		sustainable range of				
		options.				
Strategic	G	Scottish Water will	Scottish Water	01/01/2016 -	Complete	Action Complete
mapping and		undertake modelling of		31/12/2017		
modelling		the Ballater sewer				
		catchment.				
Maintain	G	SEPA will continue to	SEPA	Ongoing	SEPA has continued to operate the	SEPA will continue to operate
flood		maintain the 'Ballater'			flood warning service	the flood warning service
warning		flood warning area which				_
		is part of the Dee river				
		flood warning scheme				
Flood	G	The Scottish Flood	SEPA	Ongoing	SEPA has continued to operate the	SEPA will continue and improve
forecasting		Forecasting Service is a			Scottish Flood Forecasting Service	the Scottish Flood Forecasting
		joint initiative between			(SFFS) Partnership with the Met	Service (SFFS) with the Met
		SEPA and the Met Office			Office with daily, national flood	Office, with daily flood guidance
		that produces daily,			guidance statements issued to	statements and flood alerts
		national flood guidance			Category 1 and 2 agencies (such as	issued as required to enable
		statements which are			emergency responders, local	communities and responders to
		issued to Category 1 and			authorities and other organisations	reduce the impacts of flooding.
		2			with flooding management duties).	reade the impacts of nooding.
		Responders. The flood			Each daily statement gives an	
		guidance statements			assessment of the risk of flooding for	
		provide an assessment of			the next five days to help enable	
		the risk of flooding for a			these organisations to put	
		five day period allowing			preparations in place to reduce the	
		responders time to put			impact of flooding. SEPA's Flood	
		preparations in place to			Alert service is freely available to	
		reduce the impact of			everyone and helps enable	
		'			communities to be aware and	
		flooding.				
					prepared to reduce the impacts of	
C	6	Alexander maletine Comment	C	Oncain	flooding.	
Community	G	Aberdeenshire Council	Community	Ongoing	SEPA continues to assist the Ballater	
flood action		will work with the			flood action group as appropriate.	
groups		Ballater Flood Resilience				
		Group to reduce flood			Aberdeenshire Council will	

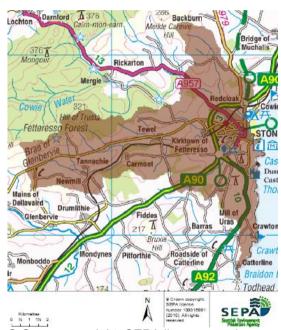
		wiele immerce			as and in standish the Craus	
		risk, improve			coordinate with the Group	
		preparedness and			throughout this first 6 year cycle on	
		increase resilience			a priority needs basis where	
		against flooding.			resources allow.	
Self help	G	Everyone is responsible	-	Ongoing		
		for protecting themselves			Aberdeenshire Council continue to	
		and their property			make PLP products available at cost	
		flooding. Property and			price. New sandbag containers	
		business owners can take			installed across the Aberdeenshire at	
		simple steps to reduce			flood prone locations for public to	
		damage and disruption to			help themselves to in times of	
		their homes and			flooding.	
		businesses should				
		flooding happen. This				
		includes preparing a flood				
		plan and flood kit,				
		installing				
		property level protection,				
		signing up to Floodline				
		and Resilient				
		Communities initiatives,				
		and				
		ensuring that properties				
		and businesses are				
		insured against flood				
		damage.				
Awareness	G	Over the six years of the	Responsible	Ongoing	SEPA has delivered a range of	SEPA will continue to raise
raising		Plan, 2016-2022,	Authorities		awareness raising activities through	awareness of flood risk through
		Aberdeenshire Council			campaigning, education activities	campaigning, developing
		will seek opportunities to			and partnership delivery. We have	education and engagement
		raise awareness of both			run national and local digital and	tools, creating new partnerships
		flood risk and actions that			direct engagement campaigns to	and improving the flood
		enable individuals, homes			raise awareness of flood risk and	
		and businesses to reduce			SEPA's flood warning service.	9
						,
		enable individuals, homes				and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway

		flooding.			an electronic newsletter (Flooding	will continue. Our focus will be
					Gateway) four times a year which is	on promoting flood warning and
					distributed to a wide audience. We	forecasting service, innovation,
					are working with Education Scotland	education and engagement with
					and Scottish Government Resilience	partners, customers and the
					team to embed flooding awareness	public.
					within the Curriculum for Excellence,	
					and resilience partners in Safer	
					Communities programmes. We have	
					also developed an online tool that	
					helps everyone share information on	
					current flooding issues (Report-a-	
					Flood). We have worked in	
					partnership with local authorities,	
					emergency services and community	
					organisations (e.g. Neighbourhood	
					Watch Scotland, Citizens Advice	
					Scotland and others) to share our	
					resources and help to promote	
					preparedness and understanding of	
					how we manage flood risk in	
					Scotland. We have actively	
					supported the Scottish Flood Forum	
					and worked closely with UK agencies	
					to develop joint flooding	
					information.	
					Ongoing liaison with community	
					councils on resilience. Aberdeenshire	
					Council advise householders directly	
					on property level protection	
					products and actions they can take.	
Maintenance	G	Local authorities have a	Aberdeenshire	Ongoing	Publicly accessible page available on	Aberdeenshire Council will
		duty to assess	Council, asset		website, updated nightly, showing	continue with its routine
		watercourses and carry	/ land		schedules of clearance and repair as	watercourse inspections and

Emergency plans/respon se	G	out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection. Providing an emergency response to flooding is the responsibility of many	managers Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.	schedule any clearance and repair work. Information available publically Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all
se		organisations, including local authorities, the emergency services and SEPA.	kesponders		Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	contingencies
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging Cairngorms National Park Plan 2020 ??? maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

Stonehaven (Potentially Vulnerable Area 06/23)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Kincardine and Angus coastal



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Summary of Progress for Stonehaven

This Potentially Vulnerable Area covers Stonehaven and the surrounding rural area. It is approximately 68km². The Aberdeen to Dundee railway line, and the A90, A957 and A92 pass through the area.

The main rivers in the area are Carron and the Cowie. Stonehaven has suffered from major flooding in recent years from the River Carron and from the sea.

There are approximately 860 residential and 240 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £890,000, with the majority due to river flooding. Further information can be found in NELFRMP under PVA 06/23.

https://www.aberdeenshire.gov.uk/media/17363/pva-06 23-stonehaven.pdf

Since the NELFRMP was published in May 2016, a Public Hearing was held into the Stonehaven Flood Protection Scheme in March 2017. The report on the Hearing was then considered by the Infrastructure Services Committee of the Council on 1 June 2017 when the Committee decided to approve the Scheme as modified. Tenders were invited for the project in June 2018 with construction estimated to commence in late autumn/winter 2018. Work has also begun on the Stonehaven Coastal Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation. SEPA has completed development of a coastal flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeenshire Council to develop procedures for the new flood warning service. New flood warning areas have been introduced for Stonehaven Coastal area.

Overview of actions to manage flooding in Stonehaven

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/23	Α		G	G		Α	G	G	Α	G		G	G	G	G		G	G

Summary of progress of actions to manage flood risk in Stonehaven (PVA 06/23)

Action	Status	Description	Delivery Lead	Planned	Interim progress	Planned actions to complete
	(Red;			Dates		
	Amber;					
	Green)					
Flood	Α	Flood Protection Scheme	Aberdeenshire	2016 - 2019	Aberdeenshire Council	Work is due begin on site in the early
protections		includes:	Council		have now appointed a	2019 with an expected duration of 24
scheme/works		 Direct flood defences on 			contractor to begin	months.
		both banks of the River			work on the	
		Carron and Glaslaw Burn			Stonehaven Flood	
		 Modifications to the 			Protection Scheme.	
		channel				
		 Raising of the White and 				
		Red Bridges				
		 Raising and relocation of 				
		the Green Bridge				
		 Culvert replacement 				
		 Provision of pumping 				
		stations				

		– Infilling of the parapets on Bridgefield Bridge				
New Flood Warning	G	A flood warning system will be developed and implemented.	SEPA	2017 - 2018	SEPA has completed development of a coastal flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeenshire Council to develop procedures for the new flood warning service. New flood warning areas have been introduced for Stonehaven Coastal area.	SEPA will continue to operate the flood warning service
Flood protection study	G	To evaluate options to reduce the risk of flooding in Stonehaven from coastal flooding.	Aberdeenshire Council	2016- 2019	Topographic and structural surveys complete Summer 2018. Modelling and analysis - Autumn 2018 Outline engineering	Project completion – Autumn 2019

			I			
					design - Winter 2018	
					Stakeholder and public	
					engagement 1	
					- Winter 2018/19	
					Options appraisal -	
					Spring 2019	
					Stakeholder and public	
					engagement 2 - Spring	
					2019	
Surface water	A	A study to prepare Surface	Aberdeenshire	2016 -2021	Stonehaven flood	Peterhead and Aboyne areas are
plan/study	^	Water Management Plan	Council	2010 -2021	areas to be mapped in	current priority areas for reviewing
pianystudy		•	Council			· · · · ·
		(SWMP) to generate			coming weeks and	Surface Water Management Plans. With
		increased understanding of			flood areas from	Stonehavento follow in the coming
		the causes, probability and			various sources	months.
		consequences of surface			reviewed to identify	
		water flooding and to			areas for further	
		evaluate options for surface			investigation for	
		water flood management.			discussing with	
					Scottish Water.	
Strategic	G	Scottish Water will	Scottish Water	01/01/2016 -	Complete	Action Complete
mapping and		undertake modelling of the		31/12/2018		
modelling		Cowie sewer catchment.				
Maintain flood	Α	Assuming the Stonehaven	Aberdeenshire	2019	Maintenance will	
protection		Flood Protection Scheme is	Council	onwards	begin once the	
scheme*		completed within the first			scheme is complete	
Serieme		six-year plan cycle 2016-			Softenie is complete	
		2022, the following				
		maintenance measures will				
		be undertaken:				
		- Hydraulic Flood Walls -				
		Pressure testing / operation				
		 Walls Surface finishes - 				
		Repointing / re-facing				
		– Rock Armour -				

		Replacement when required				
Maintain flood warning	G	SEPA will continue to maintain the 'Stonehaven' flood warning area which is on the Carron Water and is part of the Stonehaven river flood warning scheme.	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service
Flood forecasting	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.

Community flood action groups	G	Stonehaven Flood Action Group represent the local community on flood risk issues and have been involved in working with Aberdeenshire Council and SEPA in seeking and implementing solutions to flood risk. Aberdeenshire Council will work with the Stonehaven Flood Action Group to reduce flood risk, improve preparedness and increase resilience against flooding.	Community	Ongoing	everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding. SEPA continues to engage with the Stonehaven Flood Action Group. Aberdeenshire Council will engage with the Group throughout this first 6 year cycle on a priority needs basis where resources allow. The Stonehaven Volunteer Flood Wardens inform residents in the Flood Risk Area about protecting their properties from flooding and warn residents when Aberdeenshire Council Staff believe that	Further engagement will be welcomed by the Flood Action Group especially during the construction phase of the Stonehaven Flood Protection Scheme. The Flood Action Group hope that advance information can be provided by the Council for dissemination to members and continued coordination with the group in order to inform and reassure residents. The Flood Action Group has appreciated the monthly progress reports provided by the Council (on the coastal flood study) and the open communication and engagement with Council and SEPA staff; and trusts that this engagement with the Flood Action Group as a stakeholder will continue.
					residents when Aberdeenshire Council	

Calf hala		From the second state Co.		0	Alexander analeira Commit	
Self help	G	Everyone is responsible for	-	Ongoing	Aberdeenshire Council	
		protecting themselves and			continue to make PLP	
		their property flooding.			products available at	
		Property and business			cost price. New	
		owners can take simple			sandbag containers	
		steps to reduce damage			installed across the	
		and disruption to their			Aberdeenshire at	
		homes and businesses			flood prone locations	
		should flooding happen.			for public to help	
		This includes preparing a			themselves to in times	
		flood plan and flood kit,			of flooding.	
		installing				
		property level protection,				
		signing up to Floodline and				
		Resilient Communities				
		initiatives, and				
		ensuring that properties				
		and businesses are insured				
		against flood damage.				
Awareness	G	Over the six years of the	Responsible	Ongoing	SEPA has delivered a	SEPA will continue to raise awareness of
raising		Plan, 2016-2022,	Authorities		range of awareness	flood risk through campaigning,
		Aberdeenshire Council will			raising activities	developing education and engagement
		seek opportunities to raise			through campaigning,	tools, creating new partnerships and
		awareness of both flood			education activities	improving the flood warning and
		risk and actions that enable			and partnership	forecasting service. Many of our
		individuals, homes and			delivery. We have run	awareness raising activities currently
		businesses to reduce the			national and local	underway will continue. Our focus will
		overall impact of flooding.			digital and direct	be on promoting flood warning and
		overall impact of modaling.			engagement	forecasting service, innovation,
					campaigns to raise	education and engagement with
					awareness of flood	partners, customers and the public.
					risk and SEPA's flood	partitiers, customers and the public.
					warning service,	
					Floodline. We publish	
					and publicise an	

	electronic newsletter	
	(Flooding Gateway)	
	four times a year	
	which is distributed to	
	a wide audience. We	
	are working with	
	Education Scotland	
	and Scottish	
	Government	
	Resilience team to	
	embed flooding	
	awareness within the	
	Curriculum for	
	Excellence, and	
	resilience partners in	
	Safer Communities	
	programmes. We have	
	also developed an	
	online tool that helps	
	everyone share	
	information on	
	current flooding issues	
	(Report-a-Flood). We	
	have worked in	
	partnership with local	
	authorities,	
	emergency services	
	and community	
	organisations (e.g.	
	Neighbourhood Watch	
	Scotland, Citizens	
	Advice Scotland and	
	others) to share our	
	resources and help to	
	promote	

					preparedness and	
					understanding of how	
					we manage flood risk	
					in Scotland. We have	
					actively supported the	
					Scottish Flood Forum	
					and worked closely	
					with UK agencies to	
					develop joint flooding	
					information.	
					Ongoing liaison with	
					community councils	
					on resilience.	
					Aberdeenshire Council	
					advise householders	
					directly on property	
					level protection	
					products and actions	
					they can take.	
Maintenance	G	Local authorities have a	Aberdeenshire	Ongoing	Publicly accessible	Aberdeenshire Council will continue
		duty to assess	Council, asset		page available on	with its routine watercourse inspections
		watercourses and carry out	/ land		website, updated	and schedule any clearance and repair
		clearance and repair works	managers		nightly, showing	work. Information available publically
		where such works would			schedules of clearance	
		substantially reduce flood			and repair as	
		risk. Aberdeenshire Council			assessments take	
		will produce			place.	
		schedules of clearance and				
		repair works and make				
		these available for public				
		inspection.				
Emergency	G	Providing an emergency	Category 1	Ongoing	SEPA continues to	Grampian Emergency Planning Unit
plans/response		response to flooding is the	and 2		support emergency	have in place and maintain Emergency
		responsibility of many	Responders		planning.	Plans for all contingencies

		organisations, including local authorities, the emergency services and SEPA.			Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	
Planning Policy	G	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

8. Other actions

This section sets out details of additional significant actions undertaken in the LPD by local authorities to contribute to the implementation of the current actions in the plan and the achievement of the objectives in the plan.

Other flood risk activities by local authorities in the North East Local Plan District

The Plan presents the actions to manage flood risk in The North East Local Plan District. These actions are at a LPD-wide scale or are targeted at specific PVA. In addition to the actions in this Plan, responsible authorities are undertaking other activities to manage flood risk. There are activities included in the Flood Risk Management (Scotland) Act 2009 that are undertaken by each local authority in the LPD. The main activities that have a significant effect and should be considered in conjunction with the Plan are summarised as follows:-

Section 18 & 59: Works of Clearance and Repair

Based on an assessment of the condition of a body of water, local authorities must prepare a schedule of clearance and repair works that would substantially reduce the risk of flooding of land. This is commonly referred to as a Schedule 18, which is made available by each local authority within the LPD for public inspection. Under Section 59 of the Act, the local authority must carry out the works in the Schedule 18 if it considers that this will contribute to the implementation of actions in the Plan, but that these works will not affect the implementation of actions in this Plan. Further information on progress with these actions can be provided by contacting the relevant local authority.

Section 56: General Power to manage flood risk

Without affecting the implementation of actions in this Plan, a local authority may do anything which it considers will contribute to the implementation of actions in the Plan or is necessary to reduce the risk of a flood which is likely to occur imminently and have serious adverse consequences for human health, the environment, cultural heritage or economic activity in its area.

This may include carrying out flood protection works, which may not be identified as actions in the Plan. Further information on progress with these actions can be provided by contacting the relevant local authority.

9. List of Acronyms and Abbreviations

FRM Flood Risk Management

ICS Integrated Catchment Study

LFRMP Local Flood Risk Management Plan

LPD Local Plan District

NFM Natural Flood Management
PVA Potentially Vulnerable Area

Q&S Quality & Standards (Scottish Water)

SEPA Scottish Environment Protection Agency

SR10/15 Spending Review periods for 2010-2015 and 2016-2021 for Scottish Water capital

maintenance expenditure

SWMP Surface Water Management Planning

NELPD North East Local Plan District

Appendix 1: Flood risk management responsibilities in Scotland and the legal requirement for the publication of this INTERIM REPORT

Flood risk management in Scotland

The Scottish Ministers, SEPA and responsible authorities must exercise their flood risk related functions with a view to reducing overall flood risk (reference Section 1(1) of the Flood Risk Management (Scotland) Act 2009).

Through the preparation of a national flood risk assessment and setting of objectives to reduce the level of flood risk by SEPA, which is published in Flood Risk Management Strategy, and the publication of Local Flood Risk Management Plan's by 'lead' local authorities, which detail how and when the actions agreed to meet these objectives are to be done, SEPA and all responsible authorities must act to manage flood risk in a sustainable way.

Flood Risk Management Strategy for North East
Local Flood Risk Management Plan for North East Local Plan District

Legal requirement

This document sets out the conclusions of the review of the Local Flood Risk Management Plan (LFRMP) for the North East Local Plan District (LPD) as required by Section 37 of the Flood Risk Management (Scotland) Act 2009 (the "Act").

37 Local flood risk management plans: interim report

- (1) Not earlier than 2 years and not later than 3 years after a local flood risk management plan is finalised, the lead authority must
 - (a) review the plan, and
 - (b) publish a report on the conclusions of the review including information on the progress that has been made towards implementing the measures identified in the implementation part of the plan.
- (2) The lead authority must make copies of the report available for public inspection.

The North East LFRMP, which includes the 'implementation part of the plan', was published in June 2016. The Interim Report is therefore to be published between July 2018 and June 2019. The Interim Report will provide a summary of the LFRMP actions ('measures') and the proposed delivery timescales.

The information on progress will include:

- an assessment of the progress towards implementing each of the actions;
- reasons for any actions where delivery is not as planned; and

 a description of arrangements planned to deliver the remaining actions and to address delayed actions.

The Interim Report is published by the 'lead authority' as defined by Section 34(9) of the Act in partnership with SEPA and the 'responsible authorities', as defined by Section 5 of the Act, will be in the LPD. The approval of the Interim Report will be in accordance with the agreed governance arrangements in the LPD. The responsible authorities for the North East LPD are:

- Aberdeenshire Council (lead authority)
- Aberdeen City Council
- Moray Council
- Cairngorms National Park
- SEPA
- Scottish Water

The lead authority must also publish a Final Report on the LFRMP under Section 38 of the Act between July 2021 and June 2022 (not earlier than 5 years and not later than 6 years from the publication of the plan). The Final Report will provide an assessment of current actions and a summary of current actions not implemented, with reasons for their non-implementation. The Final Report will also include a description of any other measures implemented, which the lead authority considers have contributed to the achievement of the objectives summarised in the LFRMP.

Publication

The published Interim Report for the North East LFRMP will be made available for public inspection, as per Section 37(2) of the Act, via the website of the lead authority, Aberdeenshire Council:

https://www.aberdeenshire.gov.uk/environment/flooding/; search for "Interim Report LFRMP".

Links to the published Interim Report for the North East LFRMP will also be provided from Scottish Government, SEPA and other responsible authority websites.

A hard (paper) copy of the published Interim Report for the North East LFRMP is also available for public inspection on weekdays between 9am and 5pm at the following location(s):

Aberdeenshire Council, Carlton House, Arduthie Road, Stonehaven, AB39 2QP

Copies of the published Interim Report for the North East LFRMP may also be available at offices of other responsible authorities. It is advised that the responsible authority be contacted to make such arrangements for viewing.