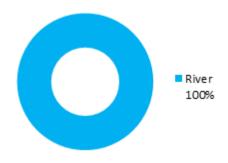
# **Dalwhinnie (Potentially Vulnerable Area 05/14)**

Local Plan District	Local authority	Main catchment
Findhorn, Nairn and Speyside	The Highland Council	River Spey

### **Summary of flooding impacts**



#### At risk of flooding

- 20 residential properties
- <10 non-residential properties</li>
- £170,000 Annual Average Damages

(damages by flood source shown left)

## Summary of objectives to manage flooding

Objectives have been set by SEPA and agreed with flood risk management authorities. These are the aims for managing local flood risk. The objectives have been grouped in three main ways: by reducing risk, avoiding increasing risk or accepting risk by maintaining current levels of management.

Many organisations, such as Scottish Water and energy companies, actively maintain and manage their own assets including their risk from flooding. Where known, these actions are described here. Scottish Natural Heritage and Historic Environment Scotland work with site owners to manage flooding where appropriate at designated environmental and/or cultural heritage sites. These actions are not detailed further in the Flood Risk Management Strategies.

#### Summary of actions to manage flooding

The actions below have been selected to manage flood risk.

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

# Dalwhinnie (Potentially Vulnerable Area 05/14)

Local Planning District	Local authority	Main catchment
Findhorn, Nairn and Speyside	The Highland Council	River Spey

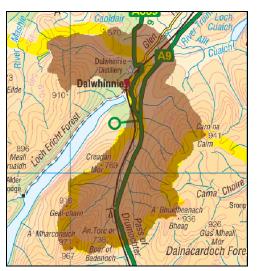
#### **Background**

This Potentially Vulnerable Area covers the town of Dalwhinnie and the surrounding rural area (shown right). It is approximately 63km<sup>2</sup> and large parts of it are within the Cairngorms National Park.

The River Truim is the main river in this Potentially Vulnerable Area and there are many small burns draining off the steep hillsides.

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

The Annual Average Damages are approximately £170,000, all caused by river flooding.



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# Summary of flooding impacts

The risk of river flooding in this area is associated with the River Truim and its tributaries, particularly around Dalwhinnie and along the A9 corridor. A number of the tributaries have been dammed and diverted for hydropower projects and there is a need to improve understanding of how this affects flood risk.

The risk of flooding to people and property, as well as to community facilities, utilities, the transport network, designated sites and agricultural land is summarised in Table 1.

Roads including the A9 and A889, and several locations on the Inverness to Perth railway line have a risk of being flooded. One designated cultural heritage site and small areas of environmental importance are at risk.

The damages associated with floods of different likelihood are shown in Figure 1. For this Potentially Vulnerable Area the highest damages are to non-residential properties and residential properties.

The location of the impacts of flooding is shown in Figure 2.

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	1 in 10 High likelihood	1 in 200 Medium likelihood	1 in 1000 Low likelihood
Residential properties (total 80)	20	20	20
Non-residential properties (total 20)	<10	<10	<10
People	40	50	50
Community facilities	0	0	0
Utilities assets	<10	<10	<10
Transport links (excluding minor roads)	Roads at <10 locations Rail at <10 locations	Roads at <10 locations Rail at <10 locations	Roads at <10 locations Rail at <10 locations
Environmental designated areas (km²)	1	1	1
Designated cultural heritage sites	1	1	1
Agricultural land (km <sup>2</sup> )	1	2	2

Table 1: Summary of flooding impacts<sup>1</sup>

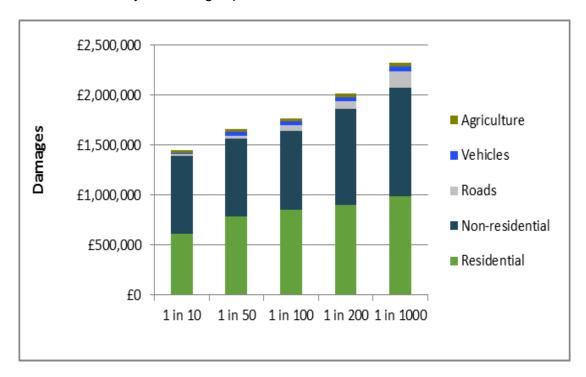


Figure 1: Damages by flood likelihood

# **History of flooding**

There is no record of flooding in this Potentially Vulnerable Area.

<sup>&</sup>lt;sup>1</sup> Some receptors are counted more than once if flooded from multiple sources

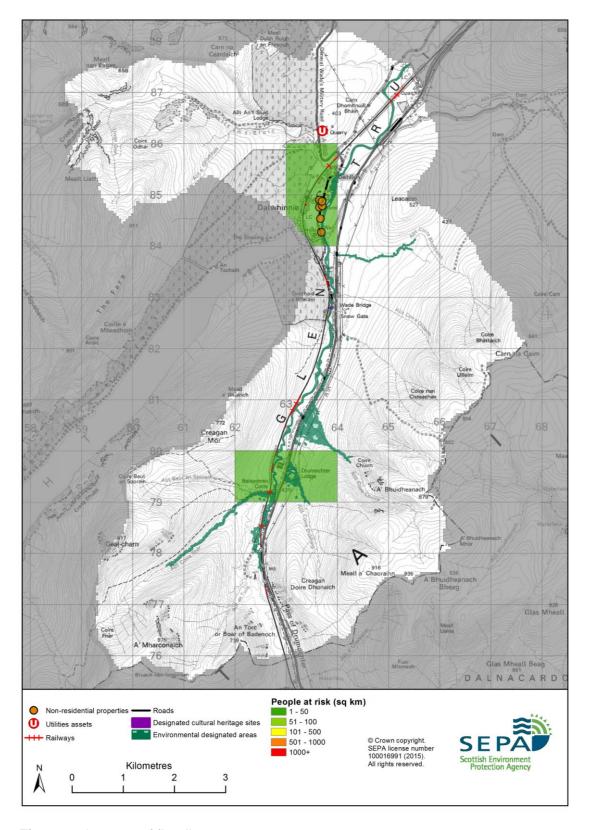
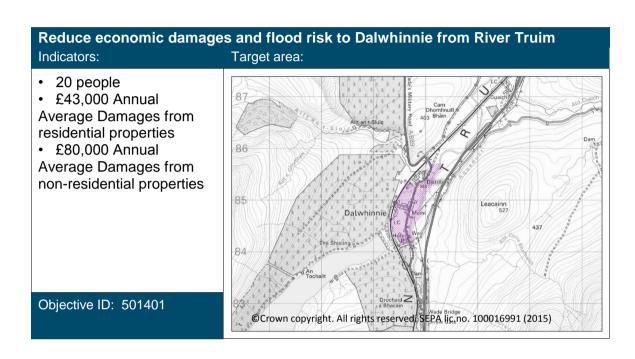


Figure 2: Impacts of flooding

### Objectives to manage flooding in Potentially Vulnerable Area 05/14

Objectives provide a common goal and shared ambition for managing floods. These objectives have been set by SEPA and agreed with flood risk management authorities following consultation. They were identified through an assessment of the underlying evidence of the causes and impacts of flooding. Target areas have been set to focus actions; they do not necessarily correspond to areas at risk in SEPA's flood map. The objectives below have been set for Dalwhinnie Potentially Vulnerable Area.



Target area	Objective	ID	Indicators within PVA
Dalwhinnie	Reduce the physical risk, or disruption risk, related to areas of the A9 at risk of flooding	5311	• 3 locations on the A9 with a total length of 330m
Applies across Findhorn, Nairn and Speyside Local Plan District	Avoid an overall increase in flood risk	500001	<ul><li>20 residential properties</li><li>£170,000 Annual Average Damages</li></ul>
Applies across Findhorn, Nairn and Speyside Local Plan District	Reduce overall flood risk	500002	<ul><li>20 residential properties</li><li>£170,000 Annual Average Damages</li></ul>
Applies across Findhorn, Nairn and Speyside Local Plan District	Organisations such as Scottish Water, energy companies and Historic Environment Scotland actively maintain and manage their own assets, including the risk of flooding. These actions are not detailed further in the Flood Risk Management Strategies.		

# Actions to manage flooding in Potentially Vulnerable Area 05/14

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

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

Action (ID):	FLOOD PROTECTION SCHEME/WORKS (5311021)			
Objective (ID):	Reduce the physical risk, or disruption risk, related to areas of the A9 at risk of flooding (5311)			
Delivery lead:	Transport Scotland			
Status:	Under development Indicative delivery: 2022-2027			
Description:	Transport Scotland will carry out civil engineering work which will reduce flood risk to identified sections of the A9.			

Action (ID):	STRATEGIC MAPPING AND MODELLING (5014020016)			
Objective (ID):	Reduce economic damages and flood risk to Dalwhinnie from River Truim (501401)			
Delivery lead:	SEPA			
Status:	Not started Indicative delivery: 2016-2021			
Description:	SEPA will review existing modelling for this area to determine if any improvements can be made to the flood maps. SEPA will also engage with Transport Scotland to support the modelling studies being undertaken in this area as part of the A9 Dualling Programme. SEPA will support the local authority if further detailed study beyond a strategic scale is required.			

Action (ID):	FLOOD FORECASTING	(5000020009)		
Objective (ID):	Reduce overall flood risk	(500002)		
Delivery lead:	SEPA			
Status:	Existing	Indicative delivery:	Ongoing	
Description:	SEPA and the Met Office statements which are issuservice also provides infowarnings, giving people a flooding on their home or SEPA's website.	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 service also provides information which allows SEPA to issue flood warnings, giving people a better chance of reducing the impact of flooding on their home or business. For more information please visit SEPA's website.  The Potentially Vulnerable Area is within the 'Findhorn Nairn Moray		

Action (ID):	<b>SELF HELP</b> (5000020011)				
Objective (ID):	Reduce overall flood risk (500002)				
Delivery lead:	_				
Status:	Existing Indicative delivery: Ongoing				
Description:	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.				

Action (ID):	AWARENESS RAISING	(5000020013)	
Objective (ID):	Reduce overall flood risk	(500002)	
Delivery lead:	Responsible authorities		
Status:	Existing	Indicative delivery:	Ongoing
Description:	SEPA and the responsible awareness of flood risk. It actions that prepare individual can reduce the overall improm 2016 SEPA will engarticipation in national in Neighbourhood Watch Solocal authorities and complete authorities will be unactivities. Further details	mproved awareness iduals, homes and be pact. gage with the commitiatives, including peotland. In addition, munity resilience grandertaking additionary	s of flood risk and businesses for flooding unity through local artnership working with SEPA will engage with bups where possible.

Action (ID):	MAINTENANCE (5000020007)				
Objective (ID):	Reduce overall flood risk (500002)				
Delivery lead:	The Highland Council, asset / land managers				
Status:	Existing	Existing Indicative delivery: Ongoing			
Description:	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. They produce schedules of clearance and repair works and make these available for public inspection. Scottish Water undertake inspection and repair on the public sewer network. Asset owners and riparian landowners are responsible for the maintenance and management of their own assets including those which help to reduce flood risk.				

Action (ID):	EMERGENCY PLANS/R	ESPONSE (500002	20014)
Objective (ID):	Reduce overall flood risk (500002)		
Delivery lead:	Category 1 and 2 Responders		
Status:	Existing	Indicative delivery:	Ongoing
Description:	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 by Category 1 and 2 Responders. The emergency response by these organisations is co-ordinated through regional and local resilience partnerships. This response may be supported by the work of voluntary organisations.		

Action (ID):	PLANNING POLICIES (5000010001)			
Objective (ID):	Avoid an overall increase in flood risk (500001)			
Delivery lead:	Planning authority			
Status:	Existing	Indicative delivery:	Ongoing	
Description:	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, 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, new development in areas with medium to high likelihood of flooding should be avoided. For further information on the application of national planning policies see Annex 2.			