

Tay Estuary and Montrose Basin Local Plan District (LPD 7)

Draft Flood Risk Management Strategy 2021-2027

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Draft Flood Risk Management Strategy 2021-2027



The Tay Estuary and Montrose Basin Local Plan District covers around 2,700km² and has a population of approximately 340,000 people. It covers part of the Cairngorms National Park and the low-lying coastal areas to the north and south of the Firth of Tay. The Local Plan District includes a 230km stretch of coastline from Inverbervie to St Andrews, incorporating the Firth of Tay. It includes the urban areas of Arbroath, Brechin, Broughty Ferry, Dundee, Montrose and St Andrews.

There are urban and agricultural areas to the south, with forest, grassland and heather in the mountains to the north. There are a number of lochs and reservoirs in the area including the Loch of Forfar, Rescobie Loch, Monikie Reservoir and Crombie Reservoir. There are several major rivers, including the River North Esk, River South Esk and River Eden.

There is river, coastal and surface water flood risk. A number of large floods have affected this Local Plan District. Storms Frank and Desmond in December 2015 led to river flooding causing widespread damage throughout the area, made worse by further storms in January 2016.

Currently it is estimated that there are around 21,000 people and 14,000 homes and businesses at risk from flooding. This may increase to 29,000 people and 19,000 homes and businesses by the 2080s due to climate change. The expected annual cost of flooding over a long period of time is around £12.6 million.

SEPA lead development of the Flood Risk Management Strategies for Scotland and delivery of flood warning services. Local flood risk management planning in the Tay Estuary and Montrose Local Plan District is led by the Angus Council, who are the lead local authority. Other responsible authorities include Scottish Water, four more local authorities and the Cairngorms National Park Authority. They are supported by Scottish Government agencies including Forestry and Land Scotland, Scottish Forestry and Transport Scotland.

Within this Local Plan District, actions are regularly carried out by SEPA and responsible authorities to help prepare communities for potential flooding and reduce the impact of any flooding that does occur. More information on these actions will be added to this section for 22 March 2021.

Potentially Vulnerable Areas (PVA) were designation in 2018 based on the potential current or future risk from all sources of flooding. This designation was informed by the National Flood Risk Assessment ([link](#)). As part of continued analysis of flood risk, the National Flood Risk Assessment and PVAs will be reviewed every six years to take on board any new information. There are 15 PVAs within this Local Plan District. Following sections provide more information on these areas.

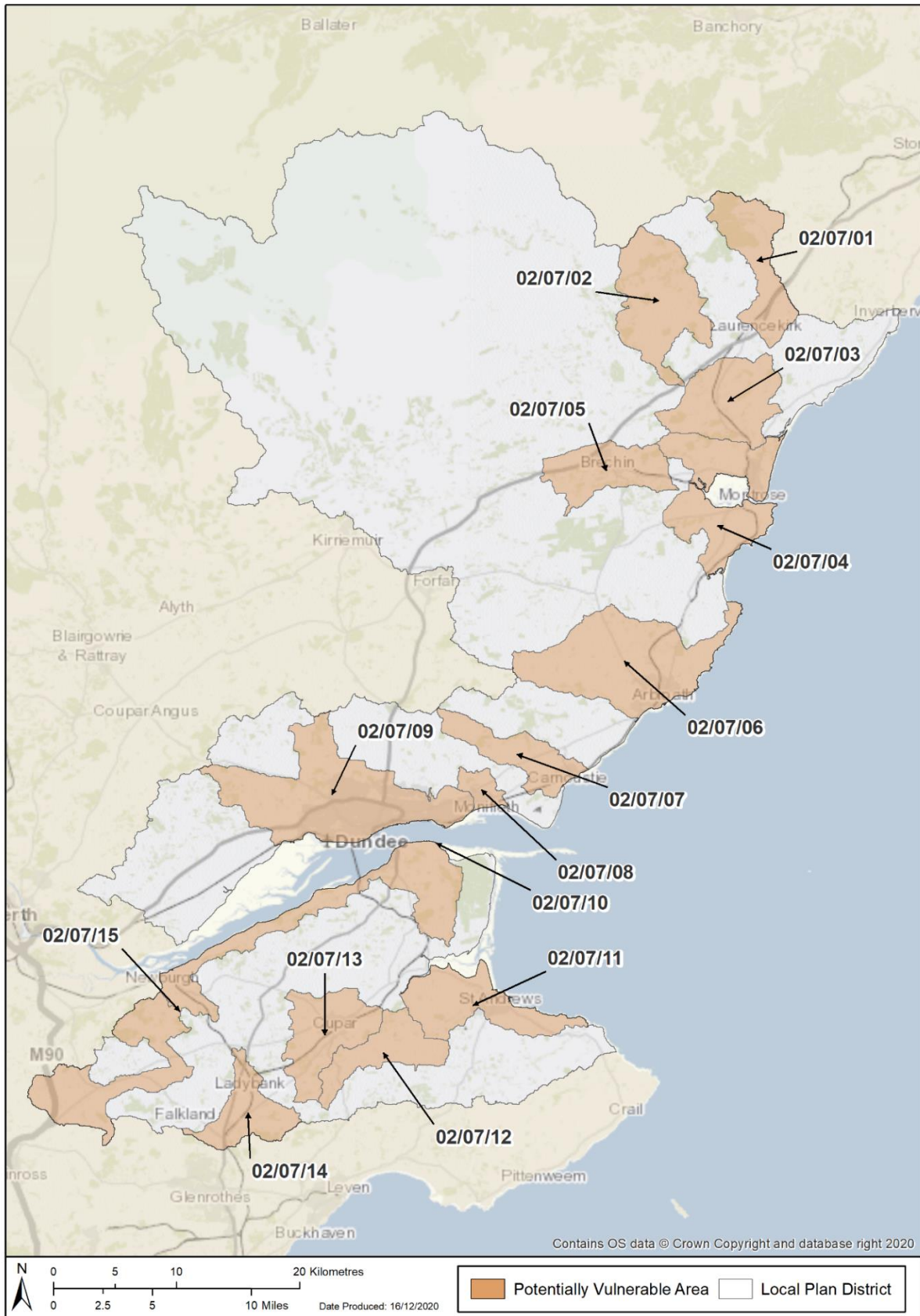


Figure 1. Potentially Vulnerable Areas in Tay Estuary and Montrose Basin Local Plan District

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Click the [blue text](#) to select your area of interest

PVA Ref	PVA NAME	Local Authority
02/07/01	Auchenblae	Aberdeenshire
02/07/02	Fettercairn	Aberdeenshire
02/07/03	Marykirk	Aberdeenshire
02/07/04	Montrose Basin	Angus
02/07/05	Brechin	Angus
02/07/06	Arbroath	Angus
02/07/07	Carnoustie, Barry	Angus
02/07/08	Monifieth	Angus
02/07/09	Dundee, Broughty Ferry and Invergowrie	Dundee City, Perth & Kinross
02/07/10	Newburgh	Fife
02/07/11	St Andrews	Fife
02/07/12	Pitscottie	Fife
02/07/13	Cupar and Springfield	Fife
02/07/14	Kingskettle and Kettlebridge	Fife
02/07/15	Auchtermuchty	Fife

02/07/01 (Auchenblae)

This area is designated as a Potentially Vulnerable Area due to potential river and surface water flood risk to Auchenblae. There is a history of flooding in the area, with recent river flooding causing damage to a property in Auchenblae.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Auchenblae (Target Area 192)

02/07/02 (Fettercairn)

This area is designated as a Potentially Vulnerable Area due to river and surface water flood risk to Fettercairn. Recent flooding from the Cauldcotts Burn and the Crichtie Burn have resulted in property flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Fettercairn (Target Area 272)

02/07/03 (Marykirk)

This area is designated as a Potentially Vulnerable Area due to river flood risk to Marykirk from the North Esk and its tributaries. Marykirk has a history of frequent and deep flooding from the River North Esk and the Balmaleedy Burn.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Marykirk (Target Area 174)

02/07/04 (Montrose Basin)

This area is designated as a Potentially Vulnerable Area due to flood risk to Montrose and Ferryden. The main sources of flooding are coastal from the North Sea and surface water. Coastal erosion contributes to the existing flooding issues. Recent coastal flooding occurred in Ferryden due to high tides combined with high river levels in the South Esk. Surface water flooding of roads has occurred several times in recent years in Montrose, with property flooding also occurring.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Montrose and Ferryden (Target Area 251)

02/07/05 (Brechin)

This area is designated as a Potentially Vulnerable Area due to flood risk to Brechin. The main source of flooding is surface water. Flooding from the River South Esk has been significantly reduced as a result of Brechin Flood Protection Scheme which was completed in 2018. There is a long history of flooding in Brechin prior to the flood scheme being built.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Brechin (Target Area 203)

02/07/06 (Arbroath)

This area is designated as a Potentially Vulnerable due to the risk of river, coastal and surface water flooding to Arbroath. There is a history of flooding in the area, with recent flooding of roads from surface water and road and property flooding. Coastal wave overtopping has occurred at Arbroath Harbour.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Arbroath (Target Area 190)

02/07/07 (Carnoustie, Barry)

This area is designated as a Potentially Vulnerable Area due to flood risk to Carnoustie and Barry from river, coastal and surface water flooding. There is a history of flooding in this area. Recent flooding has occurred due to a combination of high tides, high river levels in the Barry Burn and surface water flooding. Flooding of roads due to surface water has also occurred in the area.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Carnoustie and Barry (Target Area 210)

02/07/08 (Monifieth)

This area is designated as a Potentially Vulnerable Area due to flood risk to Monifieth. The main source of flooding is the Monifieth Burn and there is also flood risk from surface water. Several floods have been recorded in this area, with recent flooding occurring as a result of surface water and river flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Monifieth (Target Area 250)

02/07/09 (Dundee, Broughty Ferry and Invergowrie)

This area is designated as a Potentially Vulnerable Area due to flood risk in Broughty Ferry, Dundee and Invergowrie. There is flood risk from all sources including coastal from the Firth of Tay, surface water and small watercourses. A flood protection scheme has recently been completed in Dundee to protect the city from coastal flooding. There is a long history of flooding in this area. This includes recent flooding due to wave overtopping in Dundee during Storm Ciara, and frequent surface water flooding.

There are 3 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Invergowrie	(Target Area 235)
Broughty Ferry	(Target Area 269)
Dundee	(Target Area 270)

02/07/10 (Newburgh)

This area is designated as a Potentially Vulnerable Area primarily due to coastal flood risk to Newburgh. There is a history of flooding in this area.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Newburgh	(Target Area 252)
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02/07/11 (St Andrews)

This area is designated as a Potentially Vulnerable Area due to flood risk to St. Andrews. The main source of flooding is the Kinness Burn and there is also risk from surface water and coastal flooding. There is a history of flooding in this area, with recent surface water floods recorded in 2019 and 2020. Flooding from coastal wave overtopping as also been recorded in the area.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

St Andrews

(Target Area 257)

02/07/12 (Pitscottie)

This area is designated as a Potentially Vulnerable Area due to flood risk to Kemback, Pitscottie and Ceres. The main source of flooding is river flooding from small watercourses. There is a history of flooding in the area with flooding of properties recorded in Pitscottie from the Ceres Burn. Surface water flooding has also been recorded in the area.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Pitscottie and Kemback

(Target Area 175)

Ceres

(Target Area 284)

02/07/13 (Cupar and Springfield)

This area is designated as a Potentially Vulnerable Area due to flood risk to Cupar and Springfield. The main source of flooding is the River Eden and Lady Burn, and there is also flood risk from surface water. There is a history of flooding in this location, with recent flooding recorded in 2019.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Cupar

(Target Area 218)

Springfield

(Target Area 256)

02/07/14 (Kingskettle and Kettlebridge)

This area is designated as a Potentially Vulnerable Area due to flood risk to Kingskettle, Kettlebridge and Freuchie from small watercourses. There is a history of flooding in this area, with the recent floods occurring in Freuchie due to surface water flooding and in Kingskettle due to river and surface water flooding.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Kingskettle and Kettlebridge	(Target Area 238)
Freuchie	(Target Area 288)

02/07/15 (Auchtermuchty)

This area is designated as a Potentially Vulnerable Area due to flood risk to Auchtermuchty and Dunshalt. The main source of risk is river flooding. There is some history of flooding in this area.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Dunshalt	(Target Area 173)
Auchtermuchty	(Target Area 193)