

LOCAL FLOOD RISK MANAGEMENT PLANS – CYCLE 2 2022-28

1.0 EXECUTIVE SUMMARY

- 1.1 The Flood Risk Management (Scotland) Act (2009) (The Act) sets out a process for delivering a plan-led, risk-based approach to flood risk management in Scotland. The legislation requires all 'responsible authorities', as defined by the Act and Scottish Ministers, to work collaboratively to assess and agree a plan of measures or actions to reduce the risk of flooding in the most vulnerable areas in their Local Plan District (LPD).
- 1.2 Scottish Environment Protective Agency (SEPA) are responsible for developing Flood Risk Management Plans which provides the basis from which Lead Local Authorities (LLA) develop Local Flood Risk Management Plans (the LFRMP) identifying detail on what actions entail, who will undertake them and when they will be done. Although the SEPA Plan and the Local Plans are separate reports, much of the background information in each is the same.
- 1.3 The SEPA Plans for Cycle 2 (2022-2028) were approved by Scottish Ministers and published in December 2021. Local flood Risk Management Plans are due to be published by 31 December 2022.
- 1.4 Argyll and Bute Council is part of two Local Flood Risk Management Plan Districts
 - Highland and Argyll
 - Clyde and Loch Lomond (CaLL)
- 1.5 Members are asked to agree the content of the draft Highland and Argyll Local Flood Risk Management Plan Cycle 2 (See Appendix 3) to be published by Highland Council and recognise that Highland Council as Lead Local Authority has the statutory duty to publish before 31 December 2022.
- 1.6 Members are asked to note that Argyll and Bute Council Flooding Policy Lead will be invited to attend the Clyde and Loch Lomond LPD Joint Committee meeting to approve the CaLL LFRMP. The date of the committee is yet to be confirmed by the Lead Local Authority, Glasgow City Council.
- 1.7 Acceptance and publication of the LFRMP will commit Argyll and Bute Council to

delivery of the LFRMP. The Council cannot knowingly change priorities or reduce funding of flood risk management activities which would prevent the delivery of the actions in the Local Plan. Flood Protection Studies and Schemes are the most significant commitment within the Local Plan both financially and in terms of resource and the timescales for delivering these must be met.

- 1.8 Proposed schemes were submitted to SEPA in December 2019 as part of a national Flood Protection Schemes (FPS) prioritisation process. The outcome of this process is still to be published by SEPA. As part of the process additional grant funding has been sought from Scottish Government for the delivery of Flood Protection Schemes. Historically this has covered 80% of all eligible scheme costs, however at the current time it is unclear what the funding provisions will be. There is a high likelihood due to tender price increases in the Cycle 1 programme that schemes that have been put forward to the Scottish Government will not receive funding in Cycle 2. Progression with schemes is subject to success in the grant funding application process. The summary of schemes and studies which form the basis of the Local Flood Risk Management Plans are listed in this report in Appendix 2. These are subject to appropriate funding being in place from the Scottish Government and the Council.

RECOMMENDATIONS

- It is recommended that the Committee approves the content of the Highland and Argyll Local Flood Risk Management Plan allowing publication by the Lead Local Authorities (LLA) (The Highland Council) to take place by 31 December 2022.
- The Committee notes that the approval of the Clyde and Loch Lomond Local Flood Risk Management Plans (LFRMP) will be agreed at the Clyde and Loch Lomond Local Plan District (LPD) Joint Committee.
- The Committee notes progression of the schemes and studies are subject to appropriate funding being in place from the Scottish Government and the Council.

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2.0 INTRODUCTION

- 2.1 The purpose of this report is to update the Committee on Cycle 2 of the Highland and Argyll Local Flood Risk Management Plan and to seek their endorsement of the summary of actions identified to be taken forward by the Council, noting the status of the funding arrangements.
- 2.2 The Act requires the LFRMP to be published by each Lead Local Authority (LLA) by 31 December 2022.
- 2.3 Acceptance and publication of the Local Plan will commit Argyll and Bute Council to delivery of the Local Plan. The Council cannot knowingly change priorities or reduce funding of flood risk management activities which would prevent the delivery of the actions in the Local Plan. Flood Protection Studies and Schemes are the most significant commitment within the Local Plan both financially and in terms of resource and the timescales for delivering these must be met.
- 2.4 Additional grant funding has been sought from Scottish Government for the delivery of Flood Protection Schemes actioned in both LFRMP's.

3.0 RECOMMENDATIONS

- It is recommended that the Committee approves the content of the Highland and Argyll Local Flood Risk Management Plan allowing publication by the Lead Local Authorities (LLA) (The Highland Council) to take place by 31 December 2022.
- The Committee notes that the approval of the Clyde and Loch Lomond Local Flood Risk Management Plans (LFRMP) will be agreed at the Clyde and Loch Lomond Local Plan District (LPD) Joint Committee.
- The Committee notes progression of the schemes and studies are subject to appropriate funding being in place from the Scottish Government and the Council.

4.0 DETAIL

- 4.1 The Flood Risk Management (Scotland) Act 2009 placed duties on Scottish Environment Protection Agency (SEPA), Scottish Water, the National Park Authorities, Scottish Forestry and Local Authorities as “*Responsible Authorities*” to work together to reduce flood risk across the country.
- 4.2 SEPA are responsible for developing Flood Risk Management Plans (the ‘SEPA Plans’, formerly known as Strategies), which involved carrying out a National Flood Risk Assessment. The National Flood Risk Assessment (2018) developed by SEPA, defined a total of 235 Potentially Vulnerable Areas (PVAs) across Scotland. These PVAs provide a focus for all responsible authorities to fully understand the risk from all sources of flooding and agree planned measures to reduce that risk
- 4.3 SEPA Plans provide the basis from which Lead Local Authorities (LLA) develop the Local Flood Risk Management Plans (LFRMP’s) for each LPD. This is done by identifying the Objectives and Actions identified in the SEPA plans and who undertakes the Actions, and when they will be progressed is identified in the SEPA plan and confirmed in the LFRMP.
- 4.4 Argyll and Bute Council are partially responsible for producing two LFRMPs:-
- Highland and Argyll LFRMP led by The Highland Council
 - Clyde and Loch Lomond LFRMP led by Glasgow City Council
- 4.5 Although the SEPA Plan and the LFRMP’s are separate reports, much of the background information in each is the same and significant partnership working among the responsible authorities has been carried out.
- 4.6 Both SEPA Plans and LFRMP’s operate in 6 year cycles. In December 2021 SEPA published the SEPA Plans which have now been approved by Scottish Ministers. The first cycle of ABC’s LFRMP’s started in June 2016 after approval by the EDI Committee in April 2016. Cycle 2 was due to be published in June 2022, however delays due to the Covid pandemic have resulted in a deferred publishing date of 31 December 2022. The Act requires the LFRMP’s to be published by each Lead Local Authority (LLA) by 31 December 2022.
- 4.7 Flood Protection Schemes identified in Cycle 1 of the LFRMPs for inclusion in Cycle 2 are as follows:

Highland and Argyll

Clachan Flood Protection Scheme
Tarbert Flood Protection Scheme
Lochgilphead Property Flood Resilience Scheme
Oban Flood Protection Scheme

Clyde and Loch Lomond

Helensburgh Property Flood Resilience Scheme
Kilcreggan Surface Water Drainage Scheme
Sandhaven Flood Protection Scheme

Black Park, Dunoon Flood Protection Scheme

See Appendix 2 for further details.

- 4.8 Proposed schemes were submitted to SEPA in December 2019 as part of a national FPS prioritisation process. The outcome of this process is still to be published by SEPA. As part of the process additional grant funding has been sought from Scottish Government for the delivery of Flood Protection Schemes. Historically this has covered 80% of all eligible scheme costs, however at the current time it is unclear what the funding provisions will be. There is a high likelihood due to tender price increases in the Cycle 1 programme that schemes that have been put forward to the Scottish Government will not receive funding in Cycle 2. Progression with schemes is subject to success in the grant funding application process.
- 4.9 Also identified in Cycle 2 are flood risk studies and shoreline management plans that are scheduled to be delivered within this cycle. These are expected to be completed using consultants, with Argyll and Bute Council's Infrastructure Design Team managing these contracts and financed as detailed in Appendix 2.

5.0 IMPLICATIONS

- 5.1 Policy – Argyll and Bute Council Flood Risk Management Policy.
- 5.2 Financial – Projects identified will need to have appropriate capital funding made available.
- 5.3 Legal – Acceptance by Environment, Development and Infrastructure Committee and all responsible authorities within the LPD to the Local Plan satisfies paragraph 34 of the Act. Completion of the Local Plan is achieved when the above is satisfied and the SEPA Plan is approved by Scottish Ministers.
- 5.4 HR – None.
- 5.5 Fairer Scotland Duty
- 5.5.1 Equalities – Protected characteristics – None.
- 5.5.2 Socio Economic Duty – None.
- 5.5.3 Islands – None.
- 5.6 Climate Change – The actions set out within the Local Plan take account of the impact of climate change. The Plans are designed to enable communities to adapt and be prepared for the risk of flooding through the predicted increase in storm events and rising sea levels. Sustainable development is promoted and managed through the Planning system.
- 5.7 Risk – There is a statutory deadline of 31 December 2022 that the LLA (The Highland Council) has to report progress with the Local Plan to Scottish Ministers. It is important therefore that Members appreciate that approval of the plan (as modified or agreed by Environment, Development and Infrastructure Committee) is required to

achieve the reporting programme set out in the legislation.

- 5.8 Customer Service – The actions set out within the Local Plan are designed to protect communities and make them more resilient to the risk of flooding.

Executive Director with responsibility for Roads and Infrastructure Services, Kirsty Flanagan

Head of Roads and Infrastructure Services, Jim Smith

Policy Lead for Climate Change and Environment Services – Councillor Ross Moreland

December 2022

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APPENDICES

Appendix 1 – Links to SEPA Flood Risk Management Plans for Highland and Argyll, noting that Clyde and Loch Lomond can also be accessed from this link

Appendix 2 – Table of LFRMP Actions and estimated costs (2022-2028)

Appendix 3 - Highland and Argyll Local Flood Risk Management Plan (2022 – 2028)

APPENDIX 1 - LINKS TO SEPA FLOOD RISK MANAGEMENT PLANS FOR HIGHLAND AND ARGYLL

Flood Risk Management Plan – Highland and Argyll Local Plan District Highland and Argyll Flood Risk Management Plan – 2021 [Flood risk management plans 2021 \(sepa.org.uk\)](https://sepa.org.uk/flood-risk-management-plans-2021)

Flood Risk Management Plan – Clyde and Loch Lomond Plan District – 2021 [Flood risk management plans 2021 \(sepa.org.uk\)](https://sepa.org.uk/flood-risk-management-plans-2021)

APPENDIX 2 – TABLE OF LFRMP ACTIONS AND ESTIMATED COSTS (2022-2028)

Target Area ID SEPA Plan	Local Plan District	Target area name	Action ID	Action type	SEPA Plan general description (called 'Action' in final target area datasheets)	LFRMP description of Action to be carried out by Argyll and Bute Council	Indicative Delivery LFRMP	Funding source	Estimated Cost £ k (2019 Prices)
26	Clyde and Loch Lomond	Helensburgh	2601	Property flood resilience scheme	The proposed scheme to provide resilience measures against flooding for individual buildings is to be taken forward to help prevent water entering the property and to minimise flood damage.	As part of the Helensburgh Flood Protection Scheme property flood resilience and resistance measures will be implemented.	To be confirmed - progression dependent upon budget	Capital plus any available external funding	1,438
26	Clyde and Loch Lomond	Helensburgh	2602	Shoreline management plan (coastal adaptive plan)	An assessment of coastal flood and erosion risk is to be carried out. The plan should include assessment of climate change and develop adaptive approaches to allow for the impacts of climate change to be monitored, understood and managed.	Progress the development of the shoreline management plan for the Argyll and Bute coastline.	Estimated delivery 2023/24	Capital plus any available external funding	10

26	Clyde and Loch Lomond	Helensburgh	2605	Surface water management plan	Areas at risk of heavy or prolonged rainfall causing flooding due to water ponding on man-made surfaces or overwhelming the drainage system are to be identified. These priority areas will provide a baseline for the identification of next steps in managing water ponding or overwhelmed drainage systems. This should guide adaptive planning to allow for the impacts of climate change to be monitored, understood and managed.	Develop and implement a surface water management plan to reduce the risk of flooding from surface water and small watercourses in Helensburgh. The impacts of climate change on flood risk should be assessed. The results of the sewer flood risk assessment should be considered. Opportunities to disconnect surface water from the sewerage system should be identified. The surface water management plan should be reviewed and updated regularly.	To be confirmed - progression dependent upon budget	Capital/ Revenue plus any available external funding	40
67	Clyde and Loch Lomond	Kilcregan	6701	Flood scheme or works implementation	The flood scheme/works is to be built following agreement of the design, costs and timescales.	Progress the flood works based on the detailed design. The works involve refurbishment of an existing surface water channel and a new pipe network which discharges to a watercourse. The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.	Ongoing	Capital/ Revenue plus any available external funding	425
67	Clyde and Loch Lomond	Kilcregan	6702	Surface water management plan	Areas at risk of heavy or prolonged rainfall causing flooding due to water ponding on man-	Implement the surface water management plan. The plan should be reviewed and updated regularly.	Ongoing	Capital/ Revenue plus any available	10

					made surfaces or overwhelming the drainage system have been identified. Next steps in managing such water ponding or overwhelmed drainage systems have been identified and should be implemented. The plan is to be reviewed and updated as needed.			external funding	
Target Area ID SEPA Plan	Local Plan District	Target area name	Action ID	Action type	SEPA Plan general description (called 'Action' in final target area datasheets)	LFRRMP description of Action to be carried out by Argyll and Bute Council	Indicative Delivery LFRMP	Funding source	Estimated Cost £ k (2019 Prices)
88	Clyde and Loch Lomond	Rothsay and Port Bannatyne	8801	Flood study	An understanding of flood risk and associated issues in the area is to be developed, which may include surveys and modelling and should consider the impacts of climate change on flood risk. In areas where flood risk is confirmed, a range of possible options to manage flood risk are to be identified, including natural flood management actions where suitable, and a preferred approach is to be chosen. This should include adaptive planning to allow for the impacts of climate change to be monitored,	A flood study should be carried out to address coastal and surface water flood risk in Rothsay and Port Bannatyne. Using the best understanding of current coastal processes and anticipated changes due to climate change, flood modelling should be undertaken to review the standard of protection offered by the coastal defences. Surface water flood modelling should also be progressed and include the Lade area. The impacts of climate change on flood risk should be evaluated. The interactivity between coastal flooding and surface water flooding should be assessed. If flood risk is	Ongoing	Capital/ Revenue	70

					understood and managed.	confirmed, scoping of the next steps should be completed.			
88	Clyde and Loch Lomond	Rothesay and Port Bannatyne	8802	Flood defence maintenance	The existing flood defences are to be maintained by the asset owner to ensure they are in good condition.	Maintenance to the Rothesay Flood Protection Scheme should continue and updates to the maintenance regime be made based on the findings of the flood study.	Ongoing	Capital/ Revenue plus any available external funding	250
100	Clyde and Loch Lomond	Sandbank	10001	Flood scheme or works design	The selected preferred approach for managing flood risk is to be designed following the completion of the flood study, including consideration of the long-term impacts of climate change. These can include small scale works or works to improve catchment management. This should guide adaptive planning to allow for the impacts of climate change to be monitored,	Further development of the preferred option may be required prior to commencing with the detailed design. Argyll and Bute Council to develop the detailed design of the flood protection works in Sandhaven, Sandbank based on the preferred option from the surface water management plan. The preferred option identified to mitigate surface water flooding is a small embankment with discharge to open channel. The responsible authority proposes this action as the	To be confirmed - progression dependent upon budget	Capital/ Revenue plus any available external funding	20

					understood and managed.	best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.			
100	Clyde and Loch Lomond	Sandbank	10002	Flood scheme or works implementation	The flood scheme/works is to be built following agreement of the design, costs and timescales.	Progress the flood works based on the detailed design. The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.	To be confirmed - progression dependent upon budget	Capital/Revenue plus any available external funding	108
Target Area ID SEPA Plan	Local Plan District	Target area name	Action_ID	Action type	SEPA Plan general description (called 'Action' in final target area datasheets)	LFRMP description of Action to be carried out by Argyll and Bute Council	Indicative Delivery LFRMP	Funding source	Estimated Cost £ k (2019 Prices)

105	Clyde and Loch Lomond	Cardross	10501	Flood study	An understanding of flood risk and associated issues in the area is to be developed, which may include surveys and modelling and should consider the impacts of climate change on flood risk. In areas where flood risk is confirmed, a range of possible options to manage flood risk are to be identified, including natural flood management actions where suitable, and a preferred approach is to be chosen. This should include adaptive planning to allow for the impacts of climate change to be monitored, understood and managed.	A flood study should be carried out to improve understanding of coastal, river and surface water flood risk in Cardross. The interactivity between sources of flooding should be assessed. The impacts of climate change on flood risk should be evaluated. If flood risk is confirmed, scoping of the next steps should be completed. Data collection may also be included. Argyll and Bute Council to consider installing rain and river monitors on Kilmahew Burn.	To be confirmed - progression dependent upon budget	Capital/Revenue plus any available external funding	90
105	Clyde and Loch Lomond	Cardross	10502	Shoreline management plan (coastal adaptive plan)	An assessment of coastal flood and erosion risk is to be carried out. The plan should include assessment of climate change and develop adaptive approaches to allow for the impacts of climate change to be monitored, understood and managed.	Progress the development of the shoreline management plan for the Argyll and Bute coastline.	Ongoing	Capital/Revenue plus any available external funding	10

107	Clyde and Loch Lomond	Dunoon	10701	Flood scheme or works design	The selected preferred approach for managing flood risk is to be designed following the completion of the flood study, including consideration of the long-term impacts of climate change. These can include small scale works or works to improve catchment management. This should guide adaptive planning to allow for the impacts of climate change to be monitored, understood and managed.	Further development of the preferred option may be required prior to commencing with the detailed design. Argyll and Bute Council to develop the detailed design of the flood protection works in Black Park (Ash Park), Dunoon based on the preferred option from the surface water management plan. The preferred option identified to mitigate flooding is a filtration trench discharging to the combined sewer. The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.	To be confirmed - progression dependent upon budget	Capital/Revenue plus any available external funding	35
107	Clyde and Loch Lomond	Dunoon	10702	Flood scheme or works implementation	The flood scheme/works is to be built following agreement of the design, costs and timescales.	Argyll and Bute Council to progress the flood works based on the detailed design. The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.	To be confirmed - progression dependent upon budget	Capital/Revenue plus any available external funding	500
Target Area ID SEPA Plan	Local Plan District	Target area name	Action_ID	Action type	SEPA Plan general description (called 'Action' in final target area datasheets)	LFRMP description of Action to be carried out by Argyll and Bute Council	Indicative Delivery LFRMP	Funding source	Estimated Cost £ k (2019 Prices)

107	Clyde and Loch Lomond	Dunoon	10705	Flood defence maintenance	The existing flood defences are to be maintained by the asset owner to ensure they are in good condition.	Continue to maintain the Milton Burn Flood Protection Scheme (2012), Kilbride Road, Dunoon Flood Prevention Scheme (2007) and other existing flood defences in Dunoon.	Ongoing	Revenue	3
107	Clyde and Loch Lomond	Dunoon	10707	Surface water management plan	Areas at risk of heavy or prolonged rainfall causing flooding due to water ponding on man-made surfaces or overwhelming the drainage system have been identified. Next steps in managing such water ponding or overwhelmed drainage systems have been identified and should be implemented. The plan is to be reviewed and updated as needed.	Argyll and Bute Council to implement the surface water management plan. The plan should be reviewed and updated regularly.	To be confirmed - progression dependent upon budget	Capital/Revenue plus any available external funding	20
111	Clyde and Loch Lomond	Garelochhead	11101	Flood study	An understanding of flood risk and associated issues in the area is to be developed, which may include surveys and modelling and should consider the impacts of climate change on flood risk. In areas where flood risk is confirmed, a range of possible options to manage flood risk are to be identified, including natural flood management actions where suitable, and a preferred approach is to	A flood study should be carried out to improve understanding of coastal flood risk in Garelochhead. The interactivity between coastal and other sources of flooding should be assessed. The impacts of climate change on flood risk should be evaluated. If flood risk is confirmed, scoping of the next steps should be completed. Data collection may also be included.	To be confirmed - progression dependent upon budget	Capital/Revenue plus any available external funding	40

					be chosen. This should include adaptive planning to allow for the impacts of climate change to be monitored, understood and managed.				
111	Clyde and Loch Lomond	Garelochhead	11102	Shoreline management plan (coastal adaptive plan)	An assessment of coastal flood and erosion risk is to be carried out. The plan should include assessment of climate change and develop adaptive approaches to allow for the impacts of climate change to be monitored, understood and managed.	Progress the development of the shoreline management plan for the Argyll and Bute coastline.	Ongoing	Capital/Revenue plus any available external funding	5

Target Area ID	Local Plan District	Target area name	Action ID	Action type	SEPA Plan general description (called 'Action' in final target area datasheets)	LFMRMP description of Action to be carried out by Argyll and Bute Council	Indicative Delivery	Funding source	Estimated Cost £ ,000 (2019 Prices)
346	Highland and Argyll	Campbeltown	34602	Surface water management plan	Areas at risk of heavy or prolonged rainfall causing flooding due to water ponding on man-made surfaces or overwhelming the drainage system have been identified. Next steps in managing such water ponding or over-whelmed drainage systems have been identified and should be implemented. The plan is to be reviewed and updated as needed.	Implement the Campbeltown Surface Water Management Plan which will help to manage residual surface water and sewer flood risk. In the Meadows and Burnside Square areas road gullies will be disconnected from the combined sewer network with drainage held in above ground and below ground storage basins, for a controlled release back into the combined system. Additional properties are targeted for property level flood resilience.	Ongoing	Capital plus any available external funding	Included in contract awarded for £12.7 Million
346	Highland and Argyll	Campbeltown	34603	Shoreline management plan (coastal adaptive plan)	An assessment of coastal flood and erosion risk is to be carried out. The plan should include assessment of climate change and develop adaptive approaches to allow for the impacts of climate change to be monitored, understood and managed.	Progress the shoreline management plan. This should consider the impacts of sea level rise on future flood risk. The need for an adaptation plan should be assessed.	Ongoing	Capital plus any available external funding	10
346	Highland and Argyll	Campbeltown	34604	Flood scheme or works implementation	The flood scheme/works is to be built following agreement of the design, costs and timescales.	Progress the Campbeltown Flood Protection Scheme. As built drawings should be made available to SEPA, for consideration in the Scottish Flood Defence Asset Database, flood map	Ongoing	Capital plus any available external funding	CONTRACT AWARD £12.7 Million

						improvements and flood warning scheme updates.			
353	Highland and Argyll	Clachan	35301	Flood scheme or works design	The selected preferred approach for managing flood risk is to be designed following the completion of the flood study, including consideration of the long-term impacts of climate change. These can include small scale works or works to improve catchment management. This should guide adaptive planning to allow for the impacts of climate change to be monitored, understood and managed.	Develop the detailed design of the flood protection works in Clachan based on the preferred option from the flood study. The preferred option includes removal of a weir structure from the Clachan Burn and property flood resilience. The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.	To be confirmed - progression dependent upon budget	Capital plus any available external funding	25
353	Highland and Argyll	Clachan	35302	Flood scheme or works implementation	The flood scheme/works is to be built following agreement of the design, costs and timescales.	Progress the flood protection works in Clachan based on the detailed design. As built drawings should be made available to SEPA, for consideration in the Scottish Flood Defence Asset Database, flood map updates and flood warning scheme updates. The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this	To be confirmed - progression budget dependent	Capital plus any available external funding	263

Target Area ID SEPA Plan	Local Plan District	Target area name	Action_ID	Action type	SEPA Plan general description (called 'Action' in final target area datasheets)	LFMRMP description of Action to be carried out by Argyll and Bute Council	Indicative Delivery LFRMP	Funding source	Estimated Cost £ k (2019 Prices)
353	Highland and Argyll	Clachan	35305	Community flood alert	A community river level alerting system is to be installed to provide information on the potential for localised flooding.	A river level alerting system is being installed with the help of the Scottish Flood Forum.	Ongoing	Revenue	1.5
361	Highland and Argyll	Tarbert	36101	Flood scheme or works design	The selected preferred approach for managing flood risk is to be designed following the completion of the flood study, including consideration of the long-term impacts of climate change. These can include small scale works or works to improve catchment management. This should guide adaptive planning to allow for the impacts of climate change to be monitored, understood and managed.	Further development of the preferred option may be required prior to commencing with the detailed design. Develop the detailed design of the Tarbert Flood Protection Scheme based on the preferred option from the flood study. The preferred option consists of flood defence walls and demountable defences. Property flood resilience is to be provided outwith the scheme extent. The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.	To be confirmed - progression dependent upon budget	Capital/Revenue plus any available external funding	428

361	Highland and Argyll	Tarbert	36102	Flood scheme or works implementation	The flood scheme/works is to be built following agreement of the design, costs and timescales.	<p>Progress the Tarbert Flood Protection Scheme based on the detailed design. As built drawings should be made available to SEPA, for consideration in the Scottish Flood Defence Asset Database, flood map updates and flood warning scheme updates.</p> <p>The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.</p>	To be confirmed - progression dependent upon budget	Capital/Revenue plus any available external funding	4,285
361	Highland and Argyll	Tarbert	36105	Surface water management plan	Areas at risk of heavy or prolonged rainfall causing flooding due to water ponding on man-made surfaces or overwhelming the drainage system are to be identified. These priority areas will provide a baseline for the identification of next steps in managing water ponding or over-whelmed drainage systems. This should guide adaptive planning to allow for the impacts of climate change to be monitored, understood and managed.	Develop and implement a surface water management plan. This should be reviewed and updated regularly. The impacts of climate change on flood risk should be assessed. The results of the sewer flood risk assessment should be considered. Opportunities to disconnect surface water from the sewerage system should be identified. The plan should be reviewed and updated regularly.	To be confirmed - progression dependent upon budget	Capital plus any available external funding	45

Target Area ID SEPA Plan	Local Plan District	Target area name	Action_ID	Action type	SEPA Plan general description (called 'Action' in final target area datasheets)	LFMRP description of Action to be carried out by Argyll and Bute Council	Indicative Delivery LFRMP	Funding source	Estimated Cost £ k (2019 Prices)
366	Highland and Argyll	Oban	36601	Flood scheme or works design	The selected preferred approach for managing flood risk is to be designed following the completion of the flood study, including consideration of the long-term impacts of climate change. These can include small scale works or works to improve catchment management. This should guide adaptive planning to allow for the impacts of climate change to be monitored, understood and managed.	<p>Develop the detailed design of the Oban Flood Protection Scheme based on the preferred option from the flood study. The preferred option consists of a combined flood storage and direct defence solution to protect against flooding from the Black Lynn and property flood resilience to protect against coastal flooding. Some more work is required on the surface water element.</p> <p>The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.</p> <p>In accordance with the flood risk management plan, as part of the scheme or works, the responsible authority should aim to ensure the action will not have an adverse effect on the integrity of the Inner Hebrides and the Minches Special Area of Conservation.</p>	To be confirmed - progression dependent upon budget	Capital/ Revenue plus any available external funding	760

366	Highland and Argyll	Oban	36602	Flood scheme or works implementation	The flood scheme/works is to be built following agreement of the design, costs and timescales.	<p>Progress the Oban Flood Protection Scheme based on the detailed design. As built drawings should be made available to SEPA, for consideration in the Scottish Flood Defence Asset Database, flood map updates and flood warning scheme updates.</p> <p>The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.</p>	To be confirmed - progression dependent upon budget	Capital/ Revenue plus any available external funding	7,600
366	Highland and Argyll	Oban	36604	Surface water management plan	Areas at risk of heavy or prolonged rainfall causing flooding due to water ponding on man-made surfaces or overwhelming the drainage system have been identified. Next steps in managing such water ponding or over-whelmed drainage systems have been identified and should be implemented. The plan is to be reviewed and updated as needed.	Implement the surface water management plan. The plan should be reviewed and updated regularly.	To be confirmed - progression dependent upon budget		10

APPENDIX 3 - DRAFT HIGHLAND AND ARGYLL LOCAL FLOOD RISK MANAGEMENT PLAN CYCLE 2

Highland and Argyll Local Flood Risk Management Plan (2022-2028) [Highland and Argyll Local Flood Risk Management Plan \(2022-2028\)](#)