



Flood Risk Management

COUNTY SUMMARY

COUNTY: CLARE

(Information correct as of 31/12/2017)

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1. OPW Capital Investment to 31 December 2017

MAJOR FLOOD RELIEF SCHEMES: 1995-2017

Historically, flood risk management focused on arterial drainage for the benefit of agricultural improvement. Arising from increasing flood risk, the Arterial Drainage Act, 1945, was amended in 1995 to permit the Office of Public Works (OPW) to implement localised flood relief schemes to provide flood protection for cities, towns and villages.

Some schemes have been carried out by the Local Authorities under their own powers using the Planning and Development legislative code. The OPW either works in association with the relevant Local Authorities or funds Local Authorities directly to undertake flood relief works.

COUNTY: CLARE

No.	Scheme At Design/Planning	Scheme At Construction	Scheme Completed	Properties Protected	Budget (€)	Current Status (or Completion Date)
1	-	-	Ennis Upper	450	13.7m	Scheme Completed 2010
2	-	-	Sixmilebridge	16	408k	Scheme Completed 1998
3	-	Ennis Lower	-	700	18.5m	Ongoing (To be completed in 2018)
4	Ennis South	-	-	75	9.5m	Commencement Early 2018

MINOR FLOOD MITIGATION WORKS AND COASTAL PROTECTION SCHEME: 2009-2017

The Minor Flood Mitigation Works & Coastal Protection Scheme (the “Minor Works Scheme”) was introduced by the Office of Public Works in 2009. The purpose of the scheme is to provide funding to Local Authorities to undertake minor flood mitigation works or studies to address localised flooding and coastal protection problems within their administrative areas. The scheme generally applies where a solution can be readily identified and achieved in a short time frame.

Under the scheme, applications are considered for projects that are estimated to cost not more than €750,000 in each instance. Funding of up to 90% of the cost is available from the OPW for approved projects. The commencement and progression of any works for which funding is approved is a matter for each Local Authority concerned.

COUNTY: CLARE			(Local Authority: Clare County Council)	
No.	Project Location	Project Details	Approved Funding (€)	Year of Approval
1	Lahinch & Milton Malbay (Coastal)	Works	45,000	2009
2	Cloonbony	Upgrade Culvert	36,000	2010
3	Ranaghan, Ruan	Flood mitigation works	36,000	2010
4	Ruan	Flood mitigation works	90,000	2010
5	Gort Road Industrial Park, Ennis	Install overflow flood culvert	300,000	2010
6	Ballycorick, Ballynacally	Rebuild damaged sections of embankment (130 metres in total)	46,800	2010
7	Elm Park / Watery Road	Construct higher embankment / Upgrade storm drain	135,000	2010
8	Roughan	Provide new 750mm pipe Increase embankments around dwelling houses	99,000	2011
9	Tromara, Quilty(Coastal)	Design and build Gabion wall/mattress protection to beach dunes 100m long	72,000	2011
10	Shannon Airport River Defences	To strengthen some 155m of the critical area of embankment using a rock armour revetment in front of the existing embankment	150,000	2011
11	Ballyvaughan	New pipe from turlough to the sea	270,000	2011
12	Ballyrine, Doolin	Provision of sump & pump	45,000	2012
13	Milltown Malbay	Replacement of culvert	45,000	2012
14	Shannon Banks, Parteen	Construction of an overflow, attenuation and submersible pump operation	135,000	2012
15	R352, Spencilhill, Ennis, Co. Clare	Construction of 520m of 900mm flood relief culvert with associated inlet and outlet chambers	52,000	2012
16	Elm Park / Watery Road	Construct higher embankment / Upgrade storm drain	228,871	2012
17	Ballymacrogan	Provide road gullies channel & surface network	31,500	2015

COUNTY: CLARE		(Local Authority: Clare County Council)		
No.	Project Location	Project Details	Approved Funding (€)	Year of Approval
18	Ballyreen	Lay a surface water pipe to outfall	54,000	2015
19	Liscannor Bay (Clahane, Liscannor & Lahinch) (coastal)	Coastal erosion & flood risk management study	108,000	2015
20	Kilbaha & New Quay (coastal)	Coastal erosion & flood risk management study	102,000	2015
21	Quilty to Miltown Malbay (Quilty, Spanish Point & Whitestrand) (coastal)	Coastal erosion & flood risk management study	65,000	2015
22	Doolin (coastal)	Coastal erosion & flood risk management study	55,000	2015
23	Cloughauninchy	Coastal erosion & flood risk management study	84,000	2015
24	Mountcatherine	Removal of trees Reconstruction of embankment- set back from channel edge, graded at approximately 1:3 on both sides and flat on top (width of 1.5 to 2m) Associated works	49,500	2016
25	Cloughaunminchy (coastal)	Appointment of consultants for detailed design and planning	36,000	2017
			2,370,671	

2. Maintenance carried out under Arterial Drainage Act, 1945

The OPW has statutory responsibility for and carries out a programme of Arterial Drainage Maintenance. These maintenance works relate to arterial drainage schemes completed by the OPW under the Arterial Drainage Acts 1945, with the primary purpose to improve the drainage of agricultural lands. Local Authorities are responsible for the maintenance of Drainage Districts, which were completed up to 1943.

The OPW's annual Arterial Drainage Maintenance Works Programme protects 260,000 hectares (650,000 acres) of agricultural lands and comprises 11,500km (7,150 miles) of river channel and approximately 800km (500 miles) of embankments.

COUNTY: CLARE				
Completed Scheme		County(s)	Duration of Works	Benefitting Area (Acres)
Creegh	(Small Scheme)	Clare	1968 – 1969	1,000
Shannon	(Estuarine Embankment Scheme)	Clare	1958 – 1960	1,800
Fergus	(Estuarine Embankment Scheme)	Clare	1959 – 1963	5,400
Owenogarney	(Estuarine Embankment Scheme)	Clare	1955 – 1959	2,100

3. Proposed Measures in Flood Risk Management Plans

The OPW has now studied and assessed flood risk in Ireland, focussing on 300 areas of potentially significant risk throughout the country.

Flood Maps have been created for each of these communities to describe existing and potential flood risk. The OPW has now published Flood Risk Management Plans which set out, for these communities, how it is proposed to manage the assessed flood risk through investment in flood relief schemes and other policy measures. The Plans also set out measures in place and under consideration that can manage flood risk in other parts of the county.

The following tables set out the communities in this County that are covered by the Flood Risk Management Plans and provides an indication of the proposed flood relief schemes contained in the Plans for these communities.

In some instances, a technically viable flood relief scheme has been identified, however, a more detailed assessment of the costs and benefits will be completed to determine if the proposed Scheme is feasible.

For other communities, there is a relatively low level of flood risk from rivers and/or the sea, and no structural flood relief measures are therefore proposed at this time. The current level of risk will be reviewed, along with all areas, on a regular basis into the future.

In addition to the implementation of proposed flood relief schemes, funding will continue to be available for localised projects under the Minor Works Scheme.

The Plans also set out those non-structural measures in place or proposed, for example Flood Forecasting, which benefit all at risk communities and properties. The Interdepartmental Flood Policy Co-ordination Group will continue its work now greatly informed by the wealth of knowledge in the Plans to bring forward further feasible proposals for Government's consideration to support and assist households and communities through non-structural flood risk management and mitigation measures.

COUNTY: CLARE					
AREA NAME	Existing Scheme in Place	Scheme in Construction, Design or Pending	New Scheme Proposed in the Plans	Potential Scheme subject to further assessment.	No Scheme Proposed as Community at Low Risk or Scheme Not Viable
Bunratty			√		
Ennis	√	√			
Kilkee			√		
Killaloe & Ballina			√		
Kilrush			√		
O'Brien's Bridge & Montpellier				√	
Quinn					√
Shannon			√		
Shannon Airport					√
Sixmilebridge	√				
Springfield			√		

No.	Proposed Scheme	Properties Protected	Further Information on Proposed Scheme
1	Bunratty	2	<p>The proposed measure for Bunratty that may be implemented after project-level assessment and planning or Exhibition and confirmation, might include:</p> <ul style="list-style-type: none"> • Construction of new flood defence walls 190m long on the right bank side of the Owenagarney River, upstream and downstream of Bunratty Bridge, (Quay walls – on upstream bank). • Public Awareness will apply to one commercial property. • Existing flood defences will need to be maintained as part of this option.
2	Kilkee	194	<p>The proposed measure for Kilkee that may be implemented after project-level assessment and planning or Exhibition and confirmation, might include:</p> <ul style="list-style-type: none"> • Construction of new flood defence walls of total length 850m along the right bank of the Kilkee Lower (River) watercourse and along the left and right bank of the Kilkee Upper (River) watercourse. • Any existing embankment along the left bank of the Kilkee Upper (Stream) watercourse will need to be assessed and raised in some places by 0.3m. Downstream of the existing embankment, the existing wall will need to be assessed and will need to provide a flood defence function up to a level of 5.8m OD. • Construction of new flood defence wall parallel to the Kilkee East watercourse. • Upgrading existing culvert downstream of the Kilkee East watercourse.
3	Killaloe & Ballina	4	<p>The proposed measure for Killaloe & Ballina that may be implemented after project-level assessment and planning or Exhibition and confirmation might include:</p> <ul style="list-style-type: none"> • Deepen and widen the Drumbane channel; • Deepen and widen the Grange channel; • Replace Bridge on the Grange watercourse.
4	Kilrush	20	<p>The proposed measure for Kilrush that may be implemented after project-level assessment and planning or Exhibition and confirmation, might include:</p> <ul style="list-style-type: none"> • Construction of new flood defence embankments of 177m and 60m respectively, and a new flood defence wall of 33m along the right bank.
5	Shannon	143	<p>The proposed measure for Shannon town that may be implemented after project-level assessment and planning or Exhibition and confirmation, might include:</p> <ul style="list-style-type: none"> • Construction of 1,555m of new flood defence walls and 1,215m of new flood embankment. • Diversion of flow, from the Watercourse that flows between Smithstown Industrial Estate and Beech Park Logistic Centre to a natural storage area south east of the watercourse located on the Ballycasey Creek. • Natural online storage areas, balancing pond and natural flood plain areas. • Replace existing 90m culvert and 35m culvert. • Maintain existing coastal defences.

No.	Proposed Scheme	Properties Protected	Further Information on Proposed Scheme
6	Springfield	18	<p>The proposed measure for Springfield that may be implemented after project-level assessment and planning or Exhibition and confirmation might include:</p> <ul style="list-style-type: none">• Construction of a new flood defence embankment, floodgate and pump.• Maintain existing flood forecasting and public awareness campaign operated by the ESB.