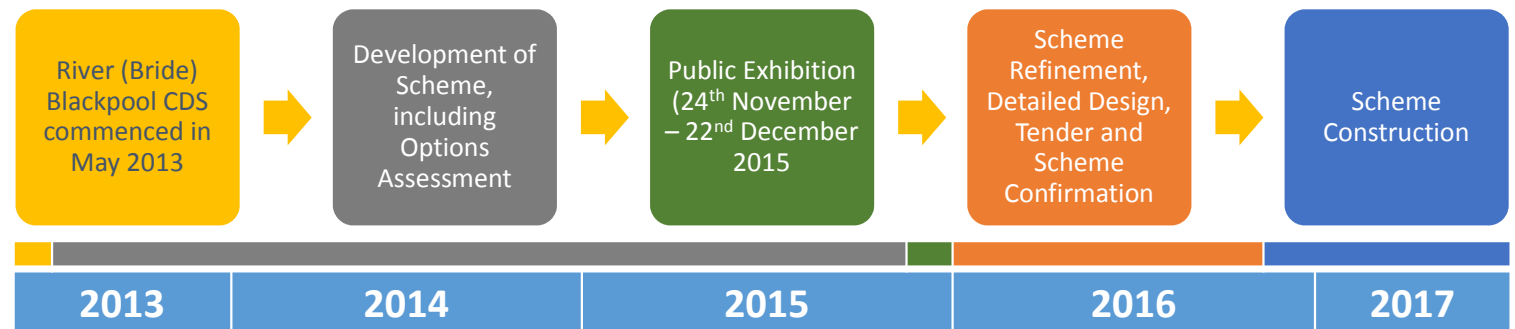


# River Bride (Blackpool) Certified Drainage Scheme

## Scheme Objectives & Overview

- Blackpool and the River Bride have a long history of flooding, with flood events on the River Bride as recently as 2012 and 2013.
- Consultants (engineering and environmental) were commissioned by the Office of Public Works (OPW) in 2013 to develop options for Blackpool as part of the wider Lower Lee (Cork City) project.
- The Project Team includes a Steering Group made up of the OPW, Cork City Council and Cork County Council, in addition to the engineering and environmental consultants.
- The River Bride (Blackpool) Certified Drainage Scheme is being advanced separately to the Lower Lee Flood Relief Scheme. The project has progressed through a constraints study, hydrological and hydraulic analysis, preliminary geotechnical investigations, options assessment stage, environmental assessment and is now at public exhibition stage.
- An Indicative Flow chart showing the process from inception through to construction for the River Bride (Blackpool) Certified Drainage Scheme is shown to the right:



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# Public Consultation



## Public Information Day No.1

17<sup>th</sup> July 2013

Purpose of project set out  
 Constraints study explained  
 Overview of potential outcomes provided  
 Your views were sought



## What has happened since?

Constraints Study  
 Hydrology and Hydraulic Modelling  
 Assessment of Viable Options  
 Preliminary Geotechnical Investigations  
 Emerging Preferred Option Identified



## Public Information Day No.2

29<sup>th</sup> July 2014

Progress update  
 A chance to have your views heard on the emerging preferred options



## What has happened since?

Scheme Review, taking on board feedback from Public Information Day No.2  
 Production of Scheme Documentation  
 Appropriate Assessment Screening  
 Environmental Impact Statement



## Public Exhibition

Four week exhibition  
 (24<sup>th</sup> November – 22<sup>nd</sup> December 2015)  
 A third chance to have your views heard



## And then?

Scheme Refinement  
 Detailed Design  
 Detailed Geotechnical Investigations  
 Confirmation of Scheme

Your views taken on board



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# Environmental Impact Statement

- Environmental assessments to determine the potential impacts the proposed scheme have been undertaken in recent months, culminating with the publication of an Environmental Impact Statement (EIS) for the proposed scheme
- The EIS is presented in three volumes, 1) Non-Technical Summary, 2) Main Report and 3) Appendices
- The EIS considers the potential environmental impacts of the scheme on Human Beings, Flora and Fauna, Soils and Geology, Air and Climate, Hydrology and Hydrogeology, Landscape, Cultural Heritage, Material Assets, and the interaction of these subject areas
- Identified potential impacts range from temporary to permanent, slight to significant, and both positive and negative
- Where the potential for negative impacts has been identified, mitigation measures have been proposed to reduce or eliminate the potential impact where possible
- The EIS is available for view at the exhibition, and is available for download from [www.lowerleefrs.ie](http://www.lowerleefrs.ie)



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# Option Development

## Flood Risk Management Options Considered at Preliminary Assessment

- Do Nothing
- Do Minimum
- Non-Structural Measures (e.g. flood warning system or individual property protection)
- Relocation of Properties and/or infrastructure
- Reconstruction of Properties and/or infrastructure to a higher level
- Flow Diversion (e.g. river diversion or flood flow bypass channel)
- Flow Reduction (e.g. upstream catchment management or flood storage)
- Flood Containment through construction of Flood Defences
- Increase Conveyance of Channel (upstream and/ or through and/or downstream of the town)

## Options Brought Forward for Detailed Assessment

- **Option 1** – ‘Do Minimum’.
- **Option 2** – Ballincrokig flood storage, combined with conveyance improvements and direct defences in Common’s Road/Blackpool
- **Option 3** – Conveyance improvements and direct defences (with high walls in Orchard Court).
- **Option 4** – Conveyance improvements and direct defences (with culvert through Orchard Court).
- **Option 5** – Conveyance improvements & direct defences (culvert replacement from Orchard Court to Madden’s Building).

## Preferred Option

**Option 4:**  
**Conveyance improvements and direct defences, with culvert through Orchard Court.**

(for a more detailed description, refer to the Scheme Description poster and the Scheme Drawings)

Options assessed using Technical, Social, Environmental & Economic Criteria



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# River Bride (Blackpool) Certified Drainage Scheme

- Construction of new culverts (c0.5km) on the River Bride,
- Replacement of eight existing bridges/ culverts and construction of solid bridge parapets on existing bridges,
- Construction of new flood walls/ earthen embankments (c2km),
- Construction of a new 78m long 'Winter Channel',
- Construction of a sedimentation trap at Sunbeam Industrial Estate, removal of approximately 100m of existing culvert and restoration of open channel at this location,
- Construction of a new trash screen in the River Bride at Blackpool Retail Park, roughing screens on the Bride (North), Glen and Glenamought Rivers, and removal of existing trash screens on the River Bride (North), and the Glen and Glenamought Rivers,
- Drainage works, including construction of seven new pumping stations,
- Removal of an existing sluice structure in the channel of the River Bride to the rear of the Dulux factory,
- Localised regrading of ground levels, to facilitate pedestrian/ vehicular access to and around flood defences, or to redirect overland surface water flow paths,
- Erection of fencing and access gates and restoration of boundaries,
- Introduction of a flow control structure on the entrance to the Brewery culvert on the River Bride and the Spring Lane culverted branch of the River Glen, and
- Regular maintenance of river channel and culverts (c6.2km), drainage works and pumping stations.



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# Formal Public Exhibition Process

- Now that the proposed Drainage Scheme for the River Bride (Blackpool) has been determined and an outline design completed, the OPW will seek consent for the proposed scheme in accordance with the provisions of the Arterial Drainage Act.
- This statutory process includes a four week Public Exhibition (24 November – 22 December 2015), during which the plans and particulars of the proposed scheme will be put on Public Display in Blackpool Library, Blackpool Shopping Centre (during standard opening hours).
- Representatives from the Project Team will attend at Blackpool Community Centre between 2 – 8PM during the period of the Public exhibition on 24 November, and 3, 10 and 21 December 2015 to explain the scheme to members of the public and to address queries.
- The EIS for the Scheme will be available to download from [www.lowerleefrs.ie](http://www.lowerleefrs.ie) or in CD format from the Office of Public Works, Flood Projects Management Services, 52 St. Stephen's Green, Dublin 2.
- Members of the public are invited to submit written observations which will be considered and responded to. An Exhibition Report, including all observations received will be sent to the Minister for Public Expenditure and Reform before formal approval of the Scheme at Confirmation Stage.



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