

Wexford Town & Environs Flood Relief Scheme



OPW Oifig na nOibreacha Poiblí
Office of Public Works



Wexford Town & Environs Flood Relief Scheme

First Public Participation Day

13th December 2023

Introduction



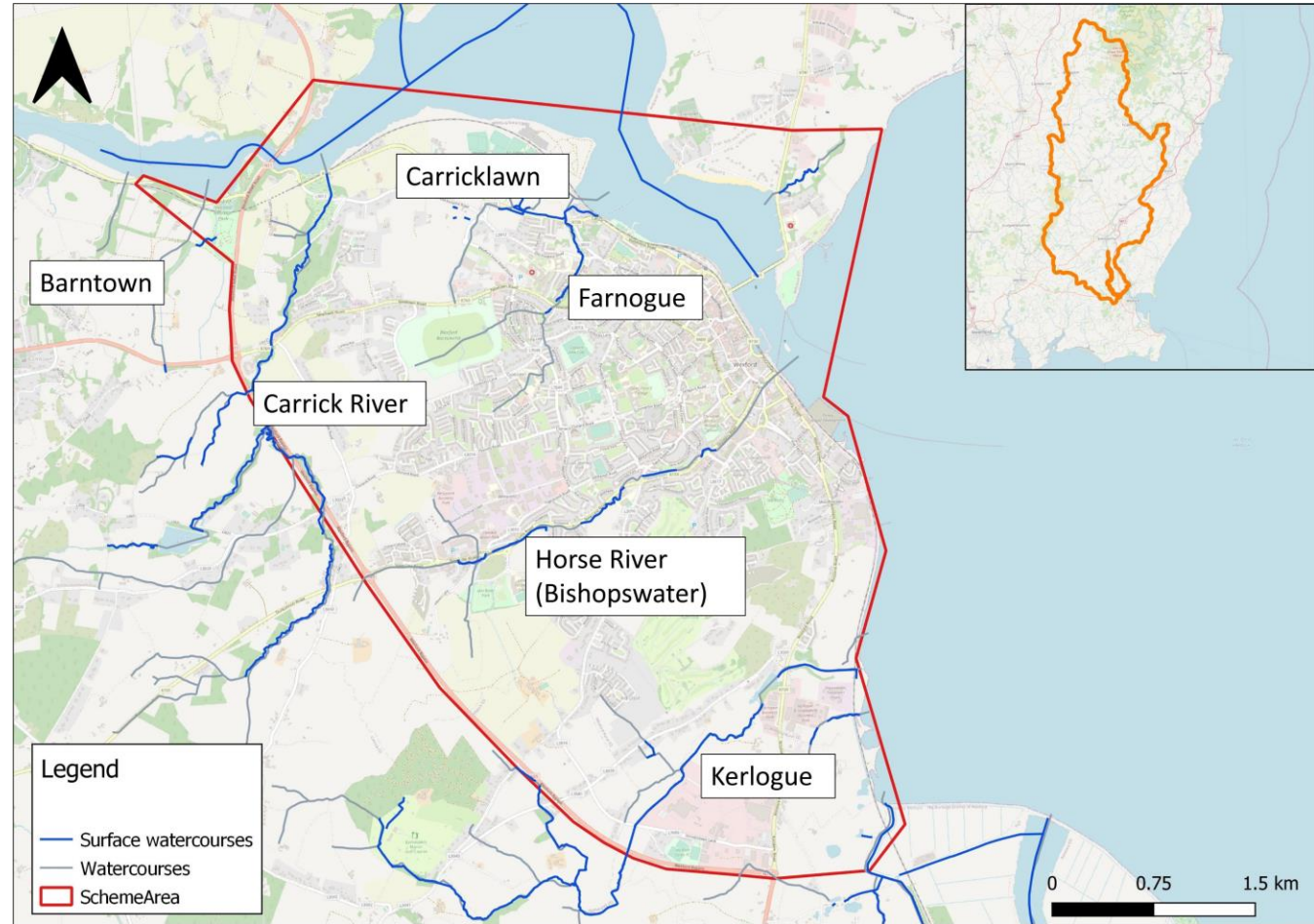
Nicholas O'Dwyer Limited (NOD) has been commissioned to carry out the Wexford Town & Environs Flood Relief Scheme (FRS) by Wexford County Council (WCC), working in partnership with the Office of Public Works (OPW).



The overall objective of project is the identification, design, and preparation of the Flood Relief Scheme through planning, that is technically, socially, environmentally, and economically acceptable, to alleviate the risk of coastal and fluvial flooding to the environs of Wexford Town to a defined Standard of Protection.



The scheme area includes approx. 10km of coastline and covers 6 watercourses with catchment areas less than 10 km². Barntown, Carrick River and Kerlogue have a quite natural catchment, while Carricklawn, Farnogue and Horse River are highly urbanized.



The figure shows the scheme area (red), the River Slaney's catchment of 1438km² (orange).

Project Overview



The project will review the measures proposed in the South-Eastern Catchment-based Flood Risk Assessment and Management (CFRAM) Study, which indicated the requirement for a flood relief scheme for Wexford Town and Environs.

The CFRAM Study examined flood risk across 13,000km² in the south-east of Ireland. The current project will examine the Wexford Town and Environs area in greater detail.

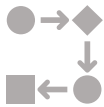


- Review the existing fluvial and coastal risk analysis and extend it by including additional minor watercourses
- Assess the complex interaction between marine water levels, wave overtopping, and storm related flooding on watercourses.
- Improve the standard of flood protection for risk areas to protect against the 0.5% Annual Exceedance Probability (1 in 200 year) Coastal flood event and 1% Annual Exceedance Probability (1 in 100 year) Fluvial flood event.



The project consists of five stages:

preliminary design, planning consent, construction design and tendering, construction, and handover



Next steps:

Topographic survey and Flow and Rainfall monitoring scoping

Environmental screening to determine further habitat and species surveys required for the coming seasons

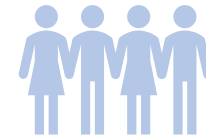
Hydrological and hydraulic analysis for the existing fluvial and coastal systems and calibrate them with latest data

Public Engagement

Why are we today

During this first Public Participation Day we are here to present the project, to seek your initial view in relation to the key issues that the Flood Relief Scheme should address and gain additional information on any recent flood events.

Your next opportunity to take part



- A second Public Participation Day will take place in 2025, Q2 (April – June) once a draft Scheme has been developed to engage public opinion, and to identify key issue and constraints.
- A third Public Participation Day will be held in 2025, Q3 (July – September) once a preferred Scheme has been identified and agreed with the Steering Group to close out the stakeholder participation events for Stage I of the Project.



Past Flood Events

October 2004

Crescent Quay



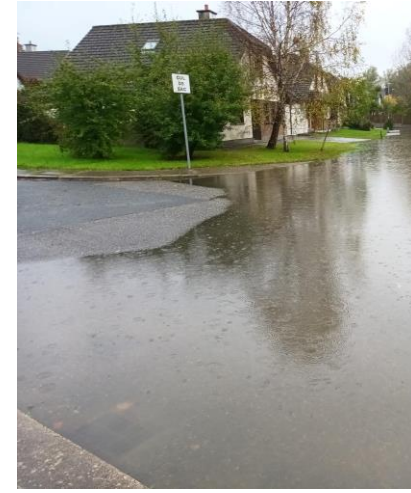
September 2009

Park road



October 2023

Stoney park



Ferrycarrig Bridge



National Heritage Park



Carricklawn road



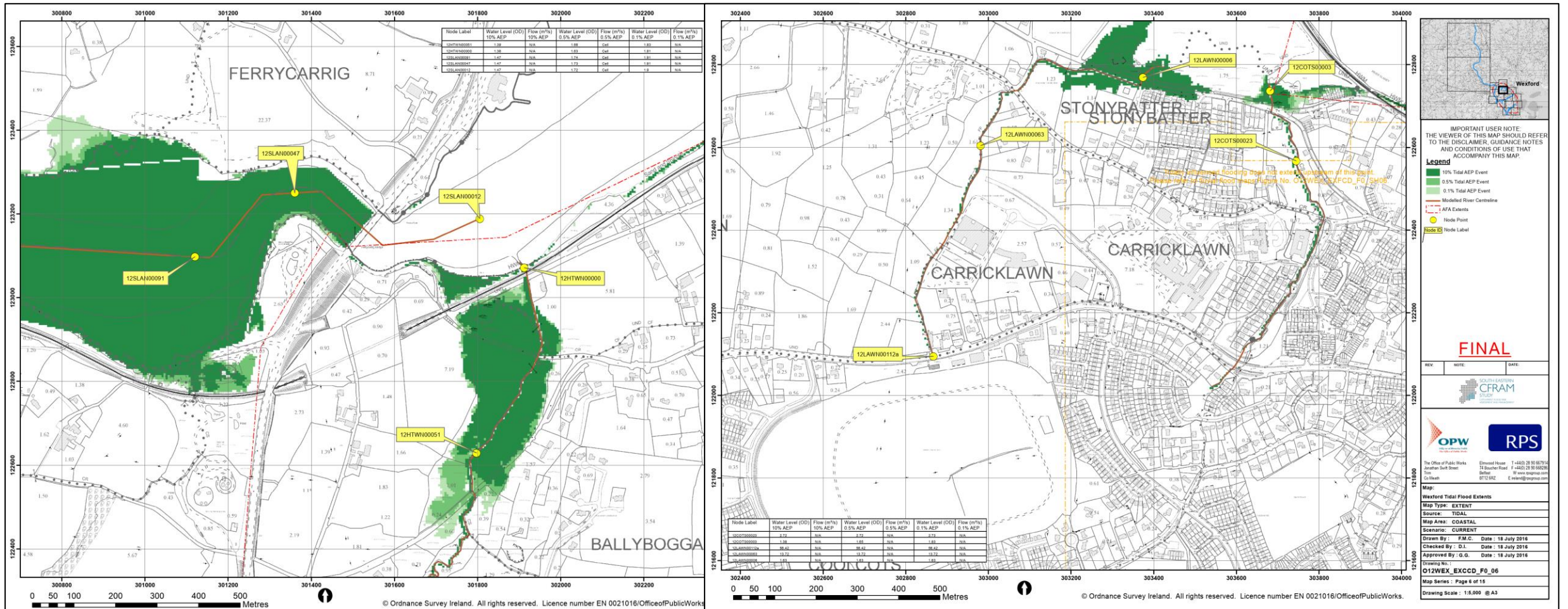
Distillery road



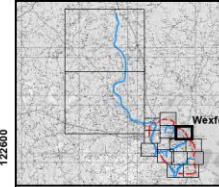
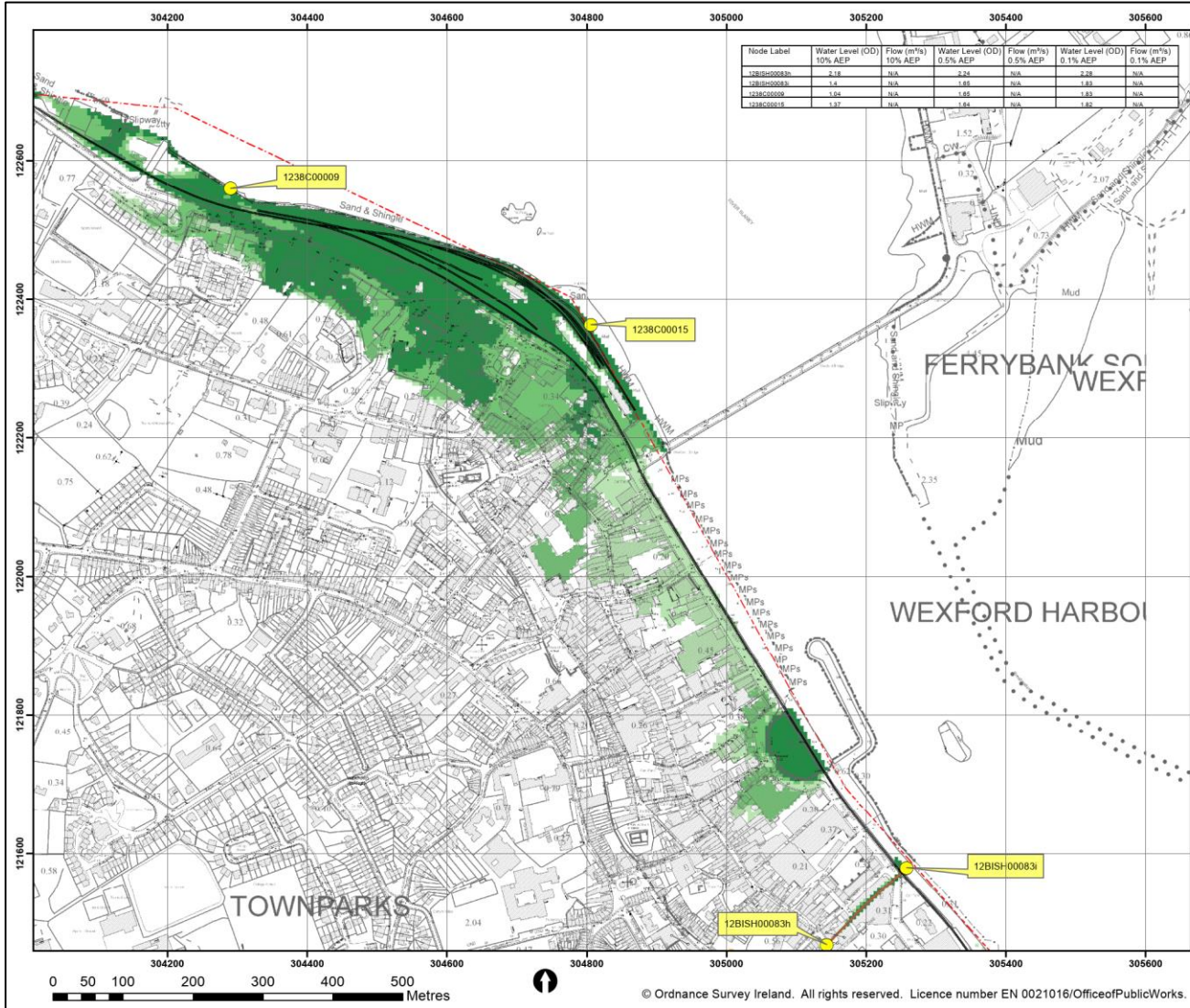
[Clean-ups after rain causes flooding in south east \(rte.ie\)](https://www.rte.ie/news/ireland/2023/10/23/clean-ups-after-rain-causes-flooding-in-south-east/)

CFRAM Coastal Flood Hazard

CFRAM predictive flood maps indicate the estimated extents, peak water levels and flows associated with flooding from only those estuaries and coastlines that have been modelled, and have been developed taking account of existing effective flood defences. The maps show areas predicted to be inundated during a 'design' flood event with an estimated probability of occurrence.



CFRAM Coastal Flood Hazard 2



IMPORTANT USER NOTE:
THE VIEWER OF THIS MAP SHOULD REFER TO THE DISCLAIMER, GUIDANCE NOTES AND CONDITIONS OF USE THAT ACCOMPANY THIS MAP.

Legend

- 10% Tidal AEP Event
- 0.5% Tidal AEP Event
- 0.1% Tidal AEP Event
- Modelled River Centreline
- AFA Extents
- Node Point
- Node Label

FINAL

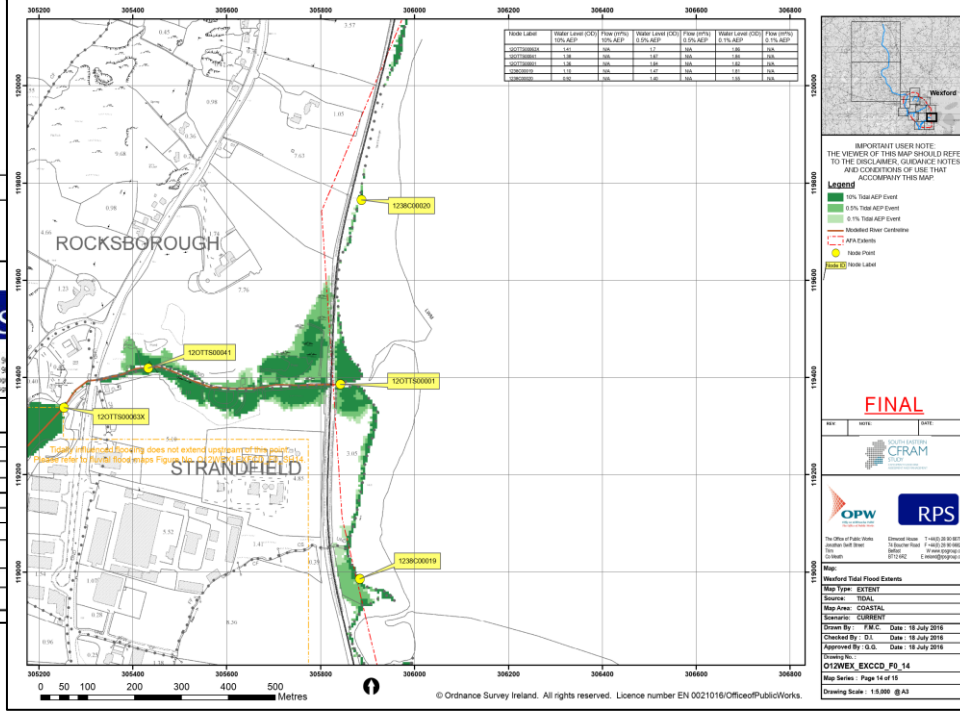
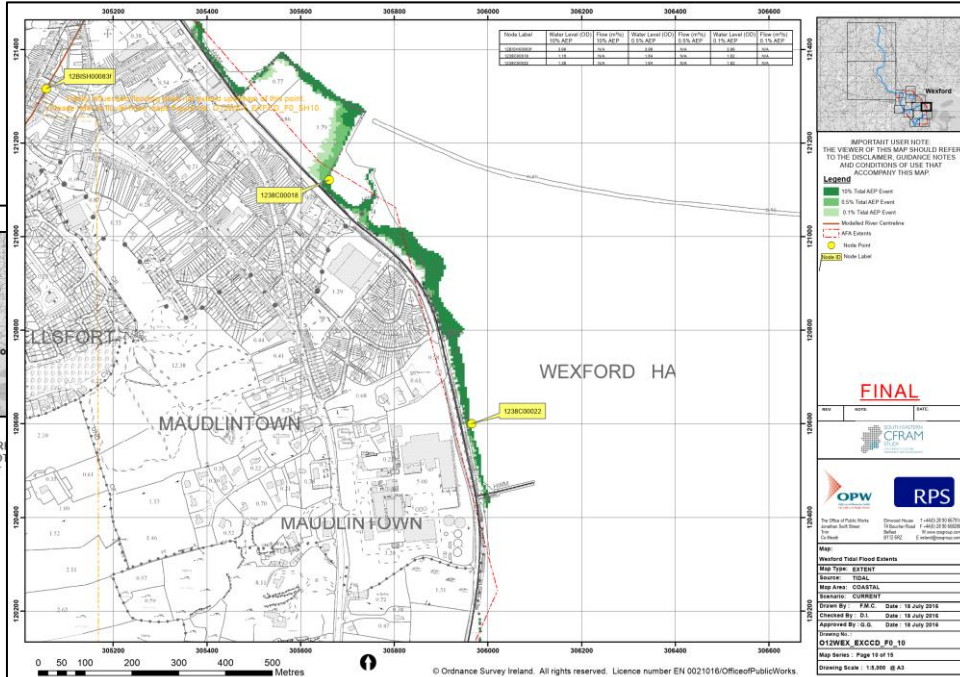
CFRAM
SOUTH EASTERN
Coastal Flood Risk Assessment

OPW **RPS**

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Map:
Wexford Tidal Flood Extents
Map Type: EXTENT
Source: TIDAL
Map Area: COASTAL
Scenario: CURRENT
Drawn By: F.M.C. Date: 18 July 2016
Checked By: D.I. Date: 18 July 2016
Approved By: G.G. Date: 18 July 2016
Drawing No:
O12WEX_EXCCD_F0_11
Map Series: Page 11 of 15
Drawing Scale: 1:5,000 @ A3



FINAL

CFRAM
SOUTH EASTERN
Coastal Flood Risk Assessment

OPW **RPS**

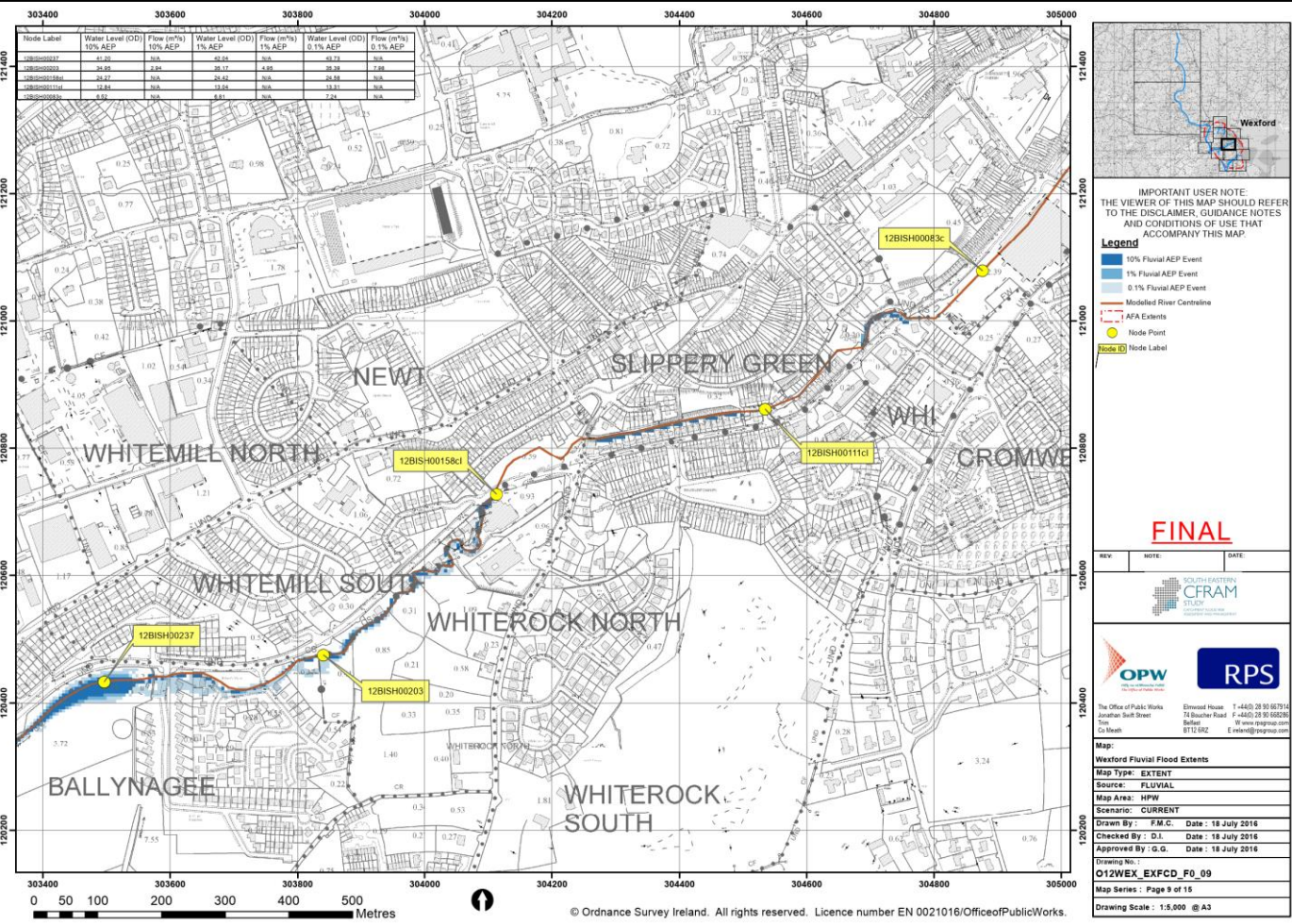
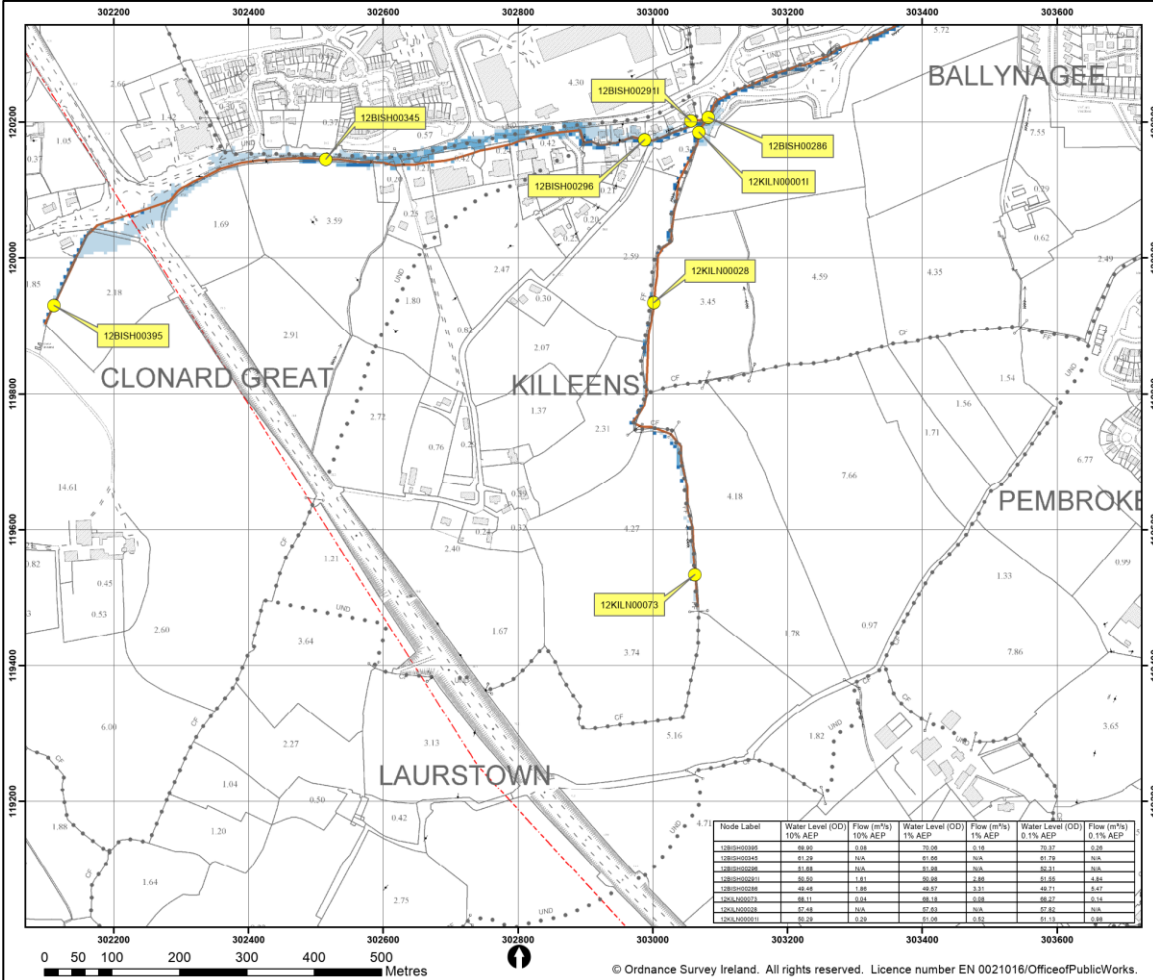
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Map:
Wexford Tidal Flood Extents
Map Type: EXTENT
Source: TIDAL
Map Area: COASTAL
Scenario: CURRENT
Drawn By: F.M.C. Date: 18 July 2016
Checked By: D.I. Date: 18 July 2016
Approved By: G.G. Date: 18 July 2016
Drawing No:
O12WEX_EXCCD_F0_14
Map Series: Page 14 of 15
Drawing Scale: 1:5,000 @ A3

CFRAM Fluvial Flood Hazard (Horse River)

CFRAM predictive maps indicate the estimated extents, peak water levels and flows associated with flooding from modelled rivers, indicated on the flood maps with a thick orange line. The maps show areas predicted to be inundated during a 'design' flood event with an estimated probability of occurrence.



IMPORTANT USER NOTE:
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Legend

- 10% Fluvial AEP Event
- 1% Fluvial AEP Event
- 0.1% Fluvial AEP Event
- Modelled River Centreline
- AFA Extents
- Node Point
- Node ID

FINAL

REV	NOTE	DATE

OPW **RPS**

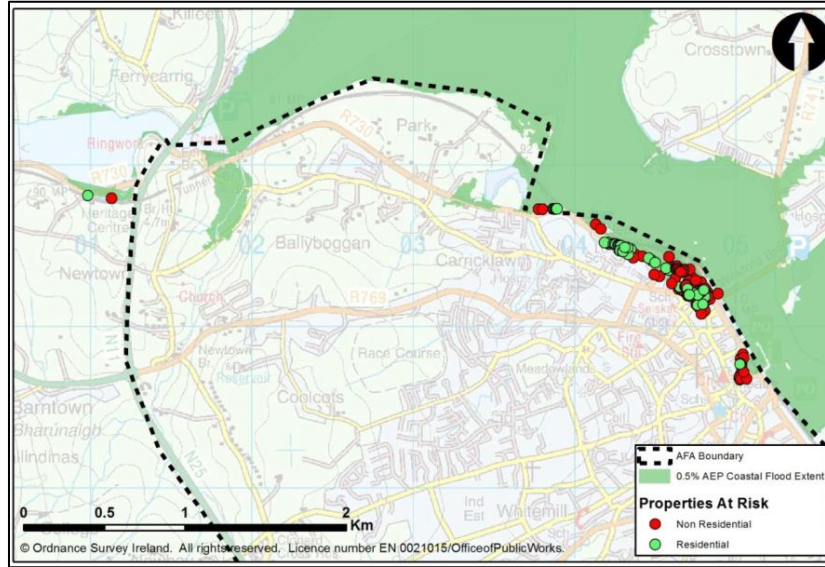
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Ballybrack
Dublin
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Fax: +353 1 454 6001
Email: rps@rps.ie

Map:
Westford Fluvial Flood Extents
Map Type: EXTENT
Source: FLUVIAL
Map Area: HPW
Scenario: CURRENT
Drawn By: J.M.G. Date: 18 July 2016
Checked By: D.J. Date: 18 July 2016
Approved By: G.G. Date: 18 July 2016
Drawing No.: O12WEX_F09
Map Series: Page 9 of 15
Drawing Scale: 1:8,000 @A3

CFRAM Options Review

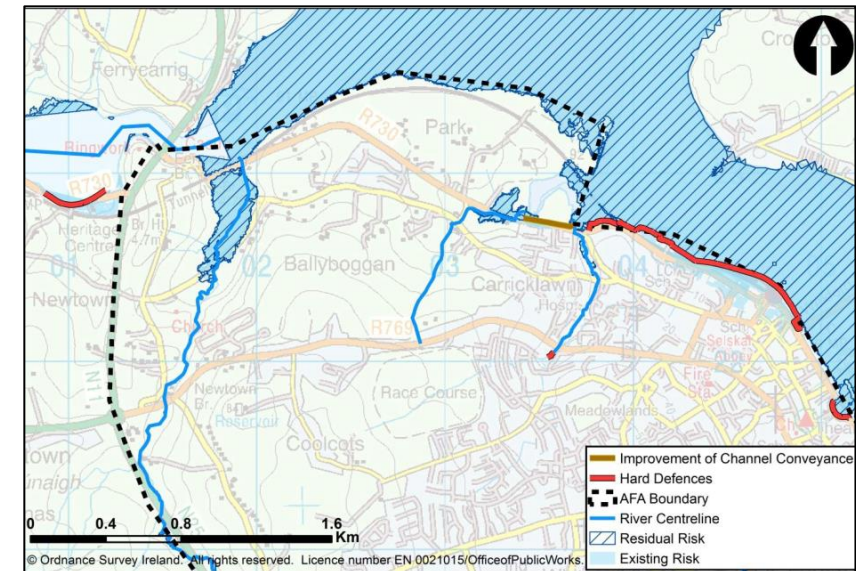
CFRAM Properties at risk within Coastal and Fluvial Flood Extent



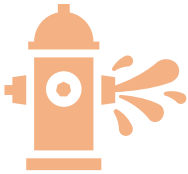
CFRAM Flood Protection Options

The CFRAM study has proposed a preferred Flood Protection Option consisting of building hard defences and improvement of channel conveyance. At risk properties would be protected by a series of flood embankments and walls, along with improvement of channel conveyance close to the downstream end of the Carricklawn River.

This option will be included in the optioneering process together with other viable options that will be assessed in our analysis.

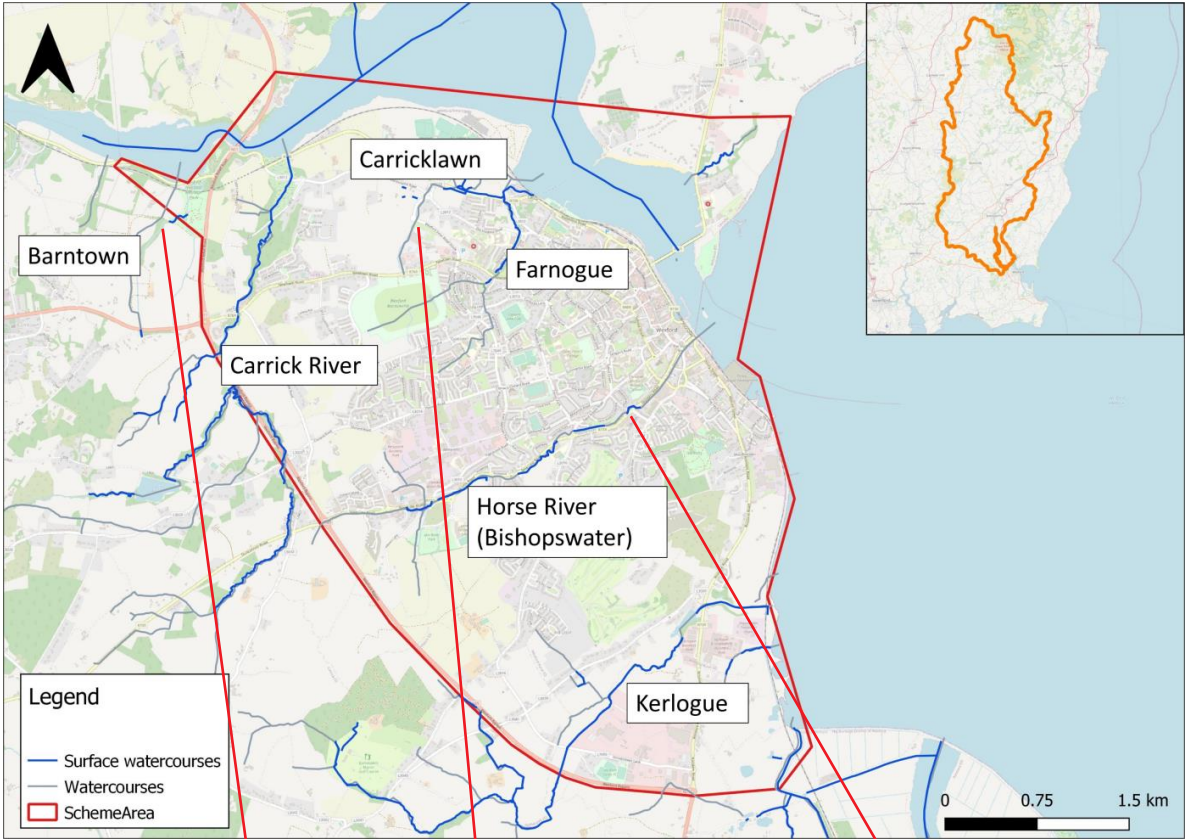


Gaps



There are many other possible sources of flooding, such as from surcharged urban drainage systems, ponding rainwater or blockage of structures such as culverts.

Flooding from these other sources has not been mapped in the CFRAM Study, so areas that are not shown as being within a flood extent may therefore be at risk from flooding from one or more of these other sources.



Barntown was not modelled, but flooding from surface water beside the National Heritage Park has happened in the past

Carricklawn was only partially modelled because WCC was carrying out works along the river

No measures were proposed for the Horse River

Thank you for your Feedback



Your Voice Matters:

We seek your initial thoughts on key flood and wave overtopping issues in the area.



Local Insights Wanted:

Share any crucial constraints for the design and sustainability of any measures proposed.



Share your experience:

Tell us about any flood events since the 2016 OPW CFRAM study.

