

NEWRY MOURNE AND DOWN DISTRICT COUNCIL

RTS/M

**Minutes of the Regulatory and Technical Services Committee Meeting held on
Wednesday 17 June 2015 at 3.00 pm in the Boardroom, District Council Offices,
Monaghan Row, Newry**

Chairperson: Councillor T Andrews

In Attendance:

Councillor C Casey	Councillor S Doran
Councillor G Hanna	Councillor G Fitzpatrick
Councillor M Murnin	Councillor H McKee
Councillor P O’Gribin	Councillor H Reilly
Councillor G Stokes	Councillor D Taylor

Non Committee Members

Councillor G Craig
Councillor R Mulgrew
Councillor B Quinn

Officials in Attendance:

Mr L Hannaway, Chief Executive
Mr C O’Rourke, Director of Regulatory and Technical Services
Mr C Jackson, Assistant Director of Building Control and Regulations
Mr K Scullion, Assistant Director of Facilities, Management and Maintenance
Mr J Parkes, Assistant Director
Mrs M Boyle, Tourism Development Officer
Mrs E McParland, Democratic Services Manager
Mrs C McAteer, Democratic Services Officer

RTS/37/2015: PRESENTATION FROM RIVERS AGENCY ON FLOOD HAZARD AND RISK MAPPING

Mr Malcolm Calvert, Principal Engineer, Mapping and Modelling Unit and Mr Jim Martin, Regional Engineer, Eastern, Rivers Agency, were in attendance to give a presentation on Flood Hazard and Risk Mapping. (Copy of presentation attached).

Councillor M Murnin, Councillor P O’Gribin, Councillor G Hanna and Councillor D Taylor joined the meeting at this point – 3.10 pm.

At the conclusion of the presentation Members raised the following issues:-

- Councillor Casey expressed concerns about severe flooding which had occurred in Newry the previous year, particularly in the Bridge Street/Thomas Street and Pool Lane areas of the City – **response – a feasibility study on this area has commenced approximately two months ago. This study would take approximately a year to complete.**
- Councillor Casey – could the scheme to provide Affordable Flood Insurance be extended to include all household properties affected by flooding – **response – this was outside the control of Rivers Agency – the relevant legislation was put in place by the UK Parliament.**
- Councillor Reilly – had a flooding risk from the Silent Valley Reservoir been assessed – **response – all 130 reservoirs including the Silent Valley will be assessed.**
- Councillor Reilly – significant periodic flooding in the Cranfield/Greencastle area which affected the caravan parks and domestic dwellings. Councillors Quinn, McKee and Doran also expressed their concerns regarding flooding at the Whitewater and advised that a commitment had been given in the legacy Council that maintenance works would be carried out to alleviate flooding in this area – **response – Mr Martin to investigate the current situation regarding proposed works to the designated Whitewater watercourse and advise the Mournes Councillors.**
- Councillor Quinn – Roads Service carried out some works to a bridge at Ballykeel river which resulted in changes to the water flow and has now started to erode the river bank on the opposite side of the river during periods of heavy rain – this could have a potential impact on a domestic property – **response – Rivers Agency only carry out works to arrest erosion on a designated watercourse if a house or road was threatened (providing the house had not knowingly been built in harm's way). If a watercourse was not designated, Roads Service may carry out works to a bridge and outside of that the landowner was responsible. Mr Martin said he would check out the situation on the Ballykeel River, referred to by Councillor Quinn, and advise the Mournes Councillors.**
- Councillor Mulgrew – referred to heavy flooding in the South Armagh area last November and said that her main concern was that residents were not being given any updates after the initial round of meetings and assessments had been held. She said it was essential that there was improved communication with residents in the aftermath of any flooding incidents – **response – Mr Martin noted the comments made by Councillor Mulgrew in relation to the need for improved communication with affected residents and then outlined the process which Rivers Agency put in place in response to flooding incidents.**
- Councillor O'Gribin – enquired if Roads Service changed their maintenance boundaries on designated watercourses, particularly as the risk of flooding was increasing – **response – Mr Martin outlined the designation process, advising that any watercourse to be designated must be referred to the Drainage Council of Northern Ireland – the drivers for designation were flood risk or drainage issues and must be cost viable for it to be**

recommended to the Drainage Council. Mr Martin said Rivers Agency did not change their boundaries but dealt with issues on a reactive basis as problems arose.

- Councillor O’Gribin – referred to problems with a river flooding beside Riverside Terrace in Leitrim Village and requested a site meeting with Mr Martin – **response – Mr Martin would contact Councillor O’Gribin and arrange to meet him on site.**
- Councillor Hanna – flooding in Newcastle – **response – Rivers Agency had just completed a feasibility study on the Shimna River which would hopefully address the flooding problems in Newcastle.**
- Councillor Doran – who was responsible for cutting back trees along river banks which were pushing back fences of adjoining houses – **response – under the Drainage NI Order, the role of Rivers Agency was to maintain the flow and drainage function of a designated watercourse. If a watercourse was designated and trees were inhibiting the flow of the river, Rivers Agency would take action, but if the flow of the water was not inhibited then no action would be taken. If a watercourse was not designated and the flow of the water was being inhibited, then it was the responsibility of the landowner and Rivers Agency could take action to enforce this responsibility.**

Councillor Andrews thanked the Mr Calvert and Mr Martin for attending the meeting and giving their presentation. The representatives from the Rivers Agency then left at this point – 3.40 pm.

RTS/38/2015:- APOLOGIES AND CHAIRPERSON’S REMARKS

Apologies were received from Councillor V Harte and Councillor Ennis.

Councillor Andrews extended his congratulations on behalf of the Committee to their Vice Chairperson, Councillor Sinead Ennis, on the birth of her daughter Aoife. He also congratulated Kevin Scullion on being appointed to the position of Assistant Director for Facilities Management and Maintenance.

AGREED: It was agreed to send a bouquet of flowers to Councillor Ennis on behalf of the Council.

AGREED: It was agreed on the proposal of Councillor Quinn, seconded by Councillor Taylor, to send a letter of congratulations to the local people of the Newry, Mourne and Down District who had received awards in the Queen’s Honours List.

Councillor Andrews said he would like to express his deepest sympathy to John and Sheila Hazley on the tragic death of their daughter, Colette.

RTS/39/2015:- DECLARATIONS OF INTEREST

Councillor Casey declared an interest, as a Member of the Board of Governors of Bunscoil an Iuir, in item No. 9 on the agenda "Repair/Replacement work to external windows and doors at former Retort House, Kilmorey Street, Newry.

RTS/40/2015: ACTION SHEET OF THE REGULATORY AND TECHNICAL SERVICES COMMITTEE MEETING – 20 MAY 2015

Read: Action Sheet of the Regulatory and Technical Services Committee Meeting held on Wednesday 20 May 2015. (Copy circulated).

NOTED: **The Action Sheet was noted.**

Mr O'Rourke gave an update and the following was agreed:-

Provision of a crematorium in the Newry, Mourne and Down District Council area

AGREED: **It was agreed that funding be included in the Draft 2016/2017 Capital Programme for the possible provision of a crematorium in the Newry, Mourne and Down District Council area.**

Provision of a Council pest control service

AGREED: **It was agreed that this request be referred to the Active and Healthy Communities Committee with a report detailing the costs of providing the service and a recommendation that these costs should be included in the 2016/2017 Draft Budgets. (Mr O'Rourke advised approximate costs were £60,000 in the first year and £45,000 in subsequent years).**

WASTE MANAGEMENT

RTS/41/2015: AUTHORISATION TO COMMENCE SPEND – CAPITAL PROGRAMME 2015/2016

Read: Report dated 1 June 2015 from Mr T Daly/Mr J Parkes seeking approval to commence procurement processes to enable those Capital Projects, with capital provision under the Council's Capital Budget Final (2015/2016, and detailed as per Appendix 1 circulated at the meeting) to commence. (Copy circulated).

AGREED: It was agreed on the proposal of Councillor Casey, seconded by Councillor Hanna, to grant approval to commence procurement processes to enable those Capital Projects, with capital provision under the Council's Capital Budget Final (2015/2016, and detailed as per Appendix 1 circulated at the meeting) to commence.

AGREED: It was agreed Mr O'Rourke advise Councillor Murnin of the details of the small plant replacement which included loss value for stolen plant.

AGREED: It was agreed at the request of Councillor Reilly that as the repairs had been completed on the pontoon for Annalong Harbour, that Mr R Dowey, Head of Finance, urgently contact the Council's insurers to see if they would provide insurance on the pontoon so that it could be put back in the Harbour for the summer tourism season.

BUILDING CONTROL

RTS/42/2015: **APPLICATION TO THE CHALLENGE FUND – TIDY UP OF DOWNPATRICK STREET CAR PARK IN SAINTFIELD**

Read: Report dated 11 June 2015 from Danielle Begley, Biodiversity Officer, seeking approval from the Council to permit Saintfield Development Association to apply to the Challenge Fund for monies to improve Downpatrick Street car park in Saintfield. (Copy circulated).

AGREED: It was agreed on the proposal of Councillor Stokes, seconded by Councillor Fitzpatrick, to grant approval to Saintfield Development Association to apply to the Challenge Fund for the above scheme.

FACILITIES MANAGEMENT AND MAINTENANCE

RTS/43/2015: **BUS SHELTER REQUESTS**

Read: Report dated 17 June 2015 from Mr K Scullion providing an update on requests for the provision of bus shelters (13 requests listed). (Copy circulated).

Councillor Mulgrew left the meeting at this point – 4.00 pm.

AGREED:

It was agreed on the proposal of Councillor O’Gribin, seconded by Councillor Doran, to approve the above report and recommendations subject to the following:-

- Councillor Casey asked that if a bus shelter request was being withdrawn from the list that other requests could be submitted. He referred to two bus shelters in Derrybeg/Carnegat, Newry. He asked that officials investigate if the existing bus shelters could be replaced with more open structures due to the anti-social behaviour stemming from them and said this would have the support of the local Community Association. It was agreed officials investigate this request.
- Councillor Doran asked that the bus shelter on the Glassdrumman Road (No. 4) be progressed as a matter of urgency, given that the request had been in the system for quite some time.
- Councillor Craig referred to the request (No.8) for a proposed bus shelter at Turley’s Crossroads and asked that a site meeting with the DEA Councillors and Councillor O’Gribin and Transport NI be held to discuss.
- Councillor Murnin referred to the request (No. 13) for a proposed bus shelter at Drumaness/Newcastle Road, Drumaness and asked if a shelter with sides could be provided as this was an exposed site. Mr O’Rourke explained that the shelter was open-sided so that the footway would remain unobstructed. Councillor O’Gribin asked that a bollard be put at the left and right hand side of the bus shelter at this location for traffic safety reasons.
- Councillor O’Gribin asked for a site meeting to consider a request for a bus shelter on the Clonvaghan Road and the Drumaroad.
- Councillor Murnin asked for a site meeting to consider a request for a bus shelter at Mill Hill, Castlewellan, opposite Annsborough Park.

AGREED:

It was further agreed on the proposal of Councillor O’Gribin, seconded by Councillor Doran, that the Council review its current policy on the provision of bus shelters, taking into account the Policy used by the former Banbridge District Council which allowed for a simple, relatively inexpensive structure to be erected in rural areas which could be easily relocated.

It was also agreed this review look at increasing the budget for the provision of bus shelters and the recycling of bus shelters which were no longer used.

Officials to report back to the next appropriate RTS Committee Meeting on this matter.

RTS/44/2015: PROPOSED MINI PILLAR INSTALLATION AT HILLSIDE DRIVE, KILKEEL

Read: Report dated 17 June 2015 from Mr K Scullion seeking agreement for Council officials to review the options for providing electricity to a Council owned outdoor facility at Hillside Drive, Kilkeel, and to provide a report on same to the next meeting of the Regulatory and Technical Services Committee. (Copy circulated).

Councillor Craig left the meeting at this point – 4.25 pm.

AGREED: **It was agreed on the proposal of Councillor McKee, seconded by Councillor Hanna, that officials liaise with the local community Group, Newry Street Unit, to consider if the Council could supply them with a generator to run their planned festival on 23 July 2015.**

It was further agreed to grant permission for Council officials to review the options for providing electricity to the Council owned outdoor facility at Hillside Drive, Kilkeel, and to provide a report including estimated cost of options, potential funding for options and how each of the options would be managed in the future, to the next meeting of the Regulatory and Technical Services Committee.

RTS/45/2015: REPAIR/REPLACEMENT WORK TO EXTERNAL WINDOWS AND DOORS AT FORMER RETORT HOUSE, KILMOREY STREET, NEWRY

Councillor Casey left the meeting for the discussion on this item.

Read: Report dated 17 June 2015 from Mr K Scullion seeking approval to go to tender for the repair/replacement work to external windows and doors at the Former Retort House, Kilmorey Street, Newry. (Copy circulated).

AGREED: **It was agreed on the proposal of Councillor Stokes, seconded by Councillor Hanna, to grant approval to go to tender up to the value of £18,000 for the repair/replacement work to external**

windows and doors at the Former Retort House, Kilmorey Street, Newry.

Councillor Casey rejoined the meeting.

RTS/46/2015: SUMMARY REVIEW REPORT – RESERVOIR BILL (NI) FUTURE

Read: Report dated 8 June 2015 from Mr T Daly seeking approval to co-operate with a request from Rivers Agency to volunteer in advance of proposed legislation by undertaking a Reservoir Survey for each of the Council's reservoir sites at an estimated cost of between £6,000 to £8,000 (no budget provision in the current financial period). Approval also sought to continue to co-operate in a joint project to upgrade the dam wall at Camlough Lake in line with current capital budget provisions. (Copy circulated).

AGREED: It was agreed on the proposal of Councillor Reilly, seconded by Councillor Hanna, to include the costs of this survey work in the 2016/2017 Rate Estimates with a view to carrying out the Reservoir Surveys in the spring of 2016.

RTS/47/2015: LEASE OF THE SEABED AND FORESHORE AT CRANFIELD FROM THE CROWN ESTATE

Read: Report dated 15 June 2015 from Michelle Boyle/Briege Magill seeking approval to renew a 15 year lease of the seabed and foreshore at Cranfield from the Crown Estate. (Copy circulated).

AGREED: It was agreed on the proposal of Councillor Reilly, seconded by Councillor Hanna, to approve the renewal of a 15 year lease of the seabed and foreshore at Cranfield from the Crown Estate.

RTS/48/2015: MAINTENANCE CONTRACT FOR THE CONTROL OF LEGIONELLA BACTERIA IN DOMESTIC HOT AND COLD WATER SYSTEMS IN NEWRY, MOURNE AND DOWN DISTRICT COUNCIL'S BUILDINGS

Read: Report dated 17 June 2015 from Mr K Scullion seeking approval for the Council to go to tender for the appointment of an external contractor to assist the Council with the control of Legionella Bacteria in hot and cold water systems within Newry, Mourne and Down District Council's buildings. (Copy circulated).

AGREED: It was agreed on the proposal of Councillor Stokes, seconded by Councillor Doran, to grant approval for the Council to go to

tender for the appointment of an external contractor to assist the Council with the control of Legionella Bacteria in hot and cold water systems within Newry, Mourne and Down District Council's buildings. It was noted the estimated cost of this work was £55,000 and if this cost was exceeded, officials would report back to the Committee.

FOR NOTING

RTS/49/2015: ARC21 JOINT COMMITTEE MEETING – MEMBERS' MONTHLY BULLETIN – 2 JUNE 2015

Read: Arc 21 Joint Committee Meeting – Members' Monthly Bulletin 2 June 2015. (Copy circulated).

AGREED: **It was agreed to note the above correspondence.**

RTS/50/2015: Arc21 JOINT COMMITTEE MEETING – 30 APRIL 2015

Read: Arc21 Joint Committee Meetings – Minutes of Meetings held on 30 April 2015. (Copy circulated).

AGREED: **It was agreed to note the above correspondence.**

RTS/51/2015: ENTERTAINMENT LICENSING REVIEW – FEBRUARY 2015

Read: Entertainment Licensing Review (Report by the Entertainment Licensing Review Group dated February 2015 – Councillors referred to Summary of Recommendations at Item 1). (Copy circulated).

AGREED: **It was agreed to note the above correspondence.**

RTS/52/2015: NOTICE OF PUBLICATION OF THE EASTERN MIDLANDS REGION WASTE MANAGEMENT PLAN 2015-2021

Read: Letter dated 28 May 2015 from the Eastern-Midlands Waste Region giving notice of publication of the Eastern-Midlands Waste Region Waste Management Plan 2015-2021 and associated SEA Statement and Natura Impact Report. (Copy circulated).

AGREED: **It was agreed to note the above correspondence.**

CONFERENCES/EVENTS

RTS/53/2015: NI PLANNING CONFERENCE – 29 SEPTEMBER 2015

Read: Letter dated 23 May 2015 from agendaNI giving details of the Northern Ireland Planning Conference being held on Tuesday 29 September 2015 in the Grand Opera House Belfast – fee £150 plus VAT. (Details circulated).

AGREED: It was agreed to appoint Councillor Murnin, Councillor McKee and Councillor Craig to attend this Conference and also to include the details of the Conference on the agenda for the next Planning Meeting.

RTS/54/2015: A CONFERENCE ON THE BENEFITS OF ZERO WASTE

Read: Correspondence giving details of a Conference on The Benefits of Zero Waste and moving towards it now – to be held on Monday 22 June 2015 in the City Hotel, Derry – free Conference. (Details circulated).

AGREED: It was agreed to appoint Councillor Craig, Councillor Andrews and 1 No. Officer to attend the above Conference.

RTS/55/2015: ULSTER ARCHITECTURAL HERITAGE SOCIETY – CROSS BORDER SUMMER SCHOOL

Read: Letter dated 5 June 2015 from the Ulster Architectural Heritage Society inviting the Council to nominate relevant Councillors and staff to attend a cross border summer school from 25-27 June 2015. (Details circulated).

AGREED: It was agreed to note the above correspondence.

RTS/56/2015: STAFF ISSUES – RECYCLING SITES

NOTED: Councillor Casey said he had been contacted by a staff member who worked in a recycling centre in the Down area. The staff member had expressed concerns about working extended hours on their own in terms of operating heavy machinery and the potential for anti-social behaviour at the site.

Mr O'Rourke said he was confident that all appropriate staff were in place during operating hours but he would investigate these issues with staff.

RTS/57/2015: ADOPTION OF AMERACAM LANE, CRANFIELD

NOTED: Councillor McKee said that Transport NI had agreed to adopt Ameracam Lane, Cranfield on the basis that the Council carry out a survey of the residents. The Council had asked that Transport NI should carry out this survey.

AGREED: **It was agreed Michelle Boyle follow up this issue with Transport Ni and report back to the Mournes Councillors.**

There being no further business the meeting ended at 4.45 pm.

For consideration at the Council Meeting to be held on Monday 6 July 2015.

Signed: **Councillor Terry Andrews
(Chairperson)**

Signed: **Mr Canice O'Rourke
(Director of Regulatory and Technical Services)**



Newry, Mourne & Down Council

17th June 2015, 3pm

Malcolm Calvert, (Principal Engineer, Mapping & Modelling Unit)

Jim Martin, (Regional Engineer - Eastern)

RIVERS

Flood Hazard & Risk Mapping

Agency



Department of
**Agriculture and
Rural Development**
www.dardni.gov.uk

www.riversagencyni.gov.uk



Agenda

- 1) Floods Directive – Flood Hazard & Flood Risk Maps
- 2) Access to Flood Mapping Information
- 3) Further Work
- 4) Questions

European Union Directive on the Assessment and Management of Flood Risks (The Floods Directive)

- All sources of flooding
 - fluvial (river)
 - coastal
 - pluvial (surface water)
 - impoundments (dam failure)
 - groundwater
- Managing flood risk to reduce the effects of flooding on:-
 - human health,
 - economic activity,
 - the environment,
 - and cultural heritage.



European Union Directive on the Assessment and Management of Flood Risks (The Floods Directive)

- **Three Stage Approach:**

**Preliminary Flood Risk Assessment
Significant Flood Risk Areas
(22 Dec 2011)**

**Flood Hazard Maps and Flood Risk Maps
(22 Dec 2013)**

**Flood Risk Management Plans
(22 Dec 2015)**

- **Public access to information, participation and communication**



Detailed Maps – What the Directive requires....

Article 5

1. On the basis of a preliminary flood risk assessment as referred to in Article 4, Member States shall, for each river basin district, or unit of management referred to in Article 3(2)(b), or portion of an international river basin district lying within their territory, identify those areas for which they conclude that potential significant flood risks exist or might be considered likely to occur.

Areas of Study in the Neagh Bann FRMP District

Significant Flood Risk Areas	Areas for Further Investigation
Newry	Magherafelt
Portadown	Gracehill
Warrenpoint	
Banbridge	
Lurgan	
Glengormley & Mallusk	
Antrim	
Ballymena	
Coleraine	

Areas of Study in the North East FRMP District

Significant Flood Risk Areas	Areas for Further Investigation
Belfast	
Newtownards	
Carrickfergus & Ballymena	
Bangor	
Newcastle	
Newtownabbey	
Downpatrick	
Dundonald	

Areas of Study in the North West FRMP District

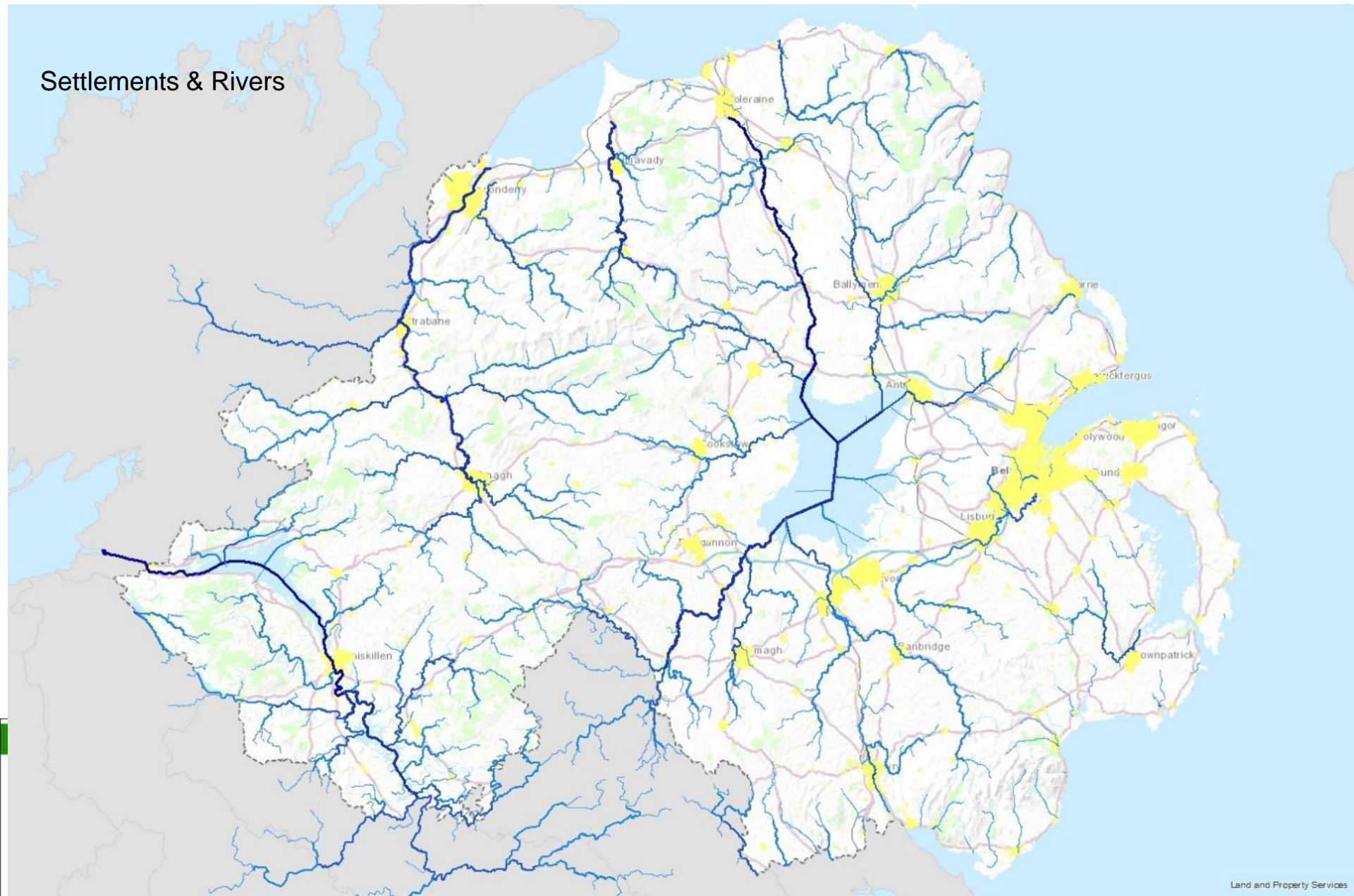
Significant Flood Risk Areas	Areas for Further Investigation
Londonderry	Eglinton
Omagh	Castlederg
Strabane	Enniskillen
	Ballinamallard
	Lisbellaw
	Coolkeeragh (power station)
	Newtownstewart

8. Member States shall ensure that the flood hazard maps and flood risk maps are completed by 22 December 2013.



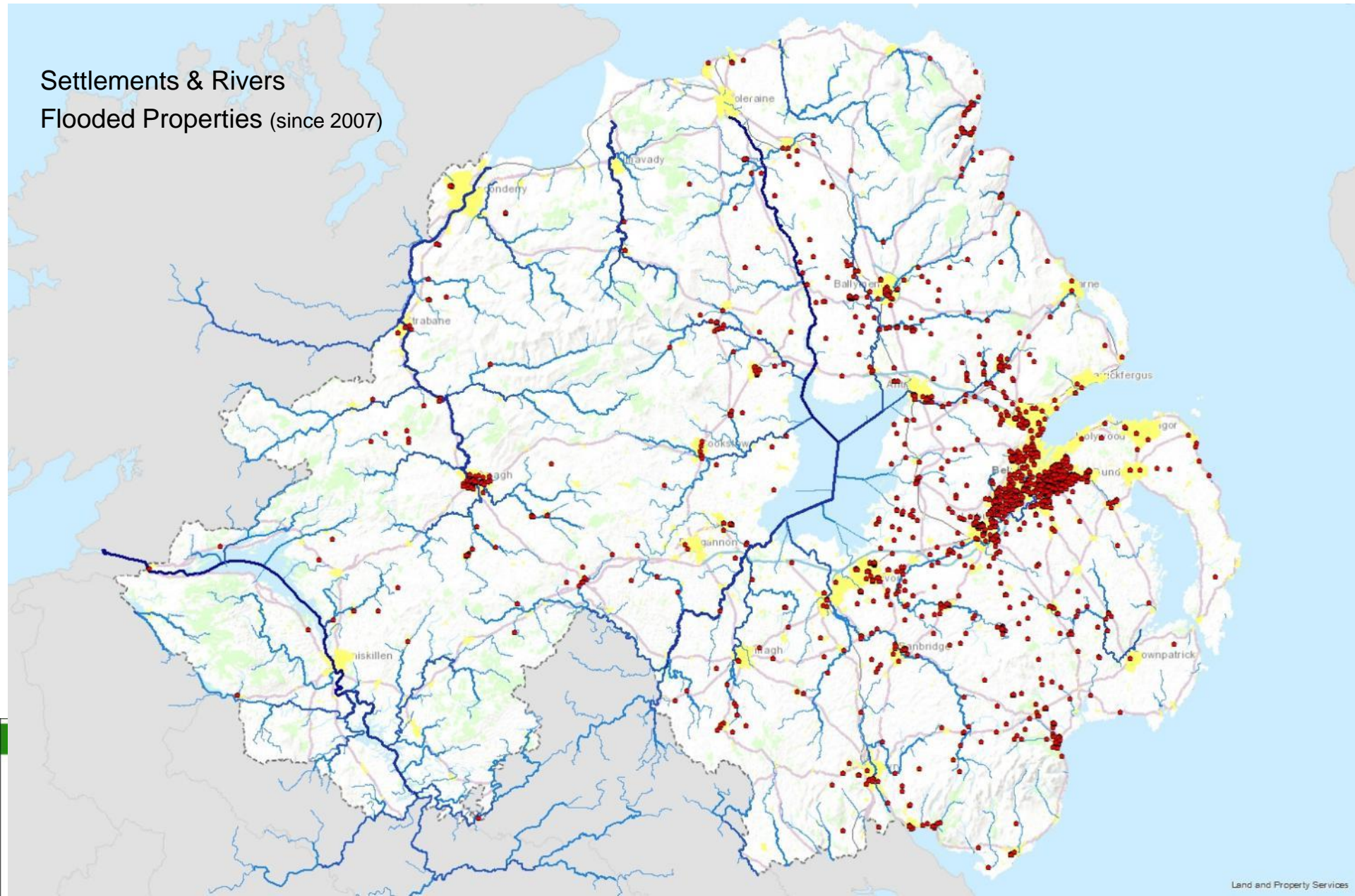
Northern Ireland - Overview

Settlements & Rivers



Northern Ireland - Overview

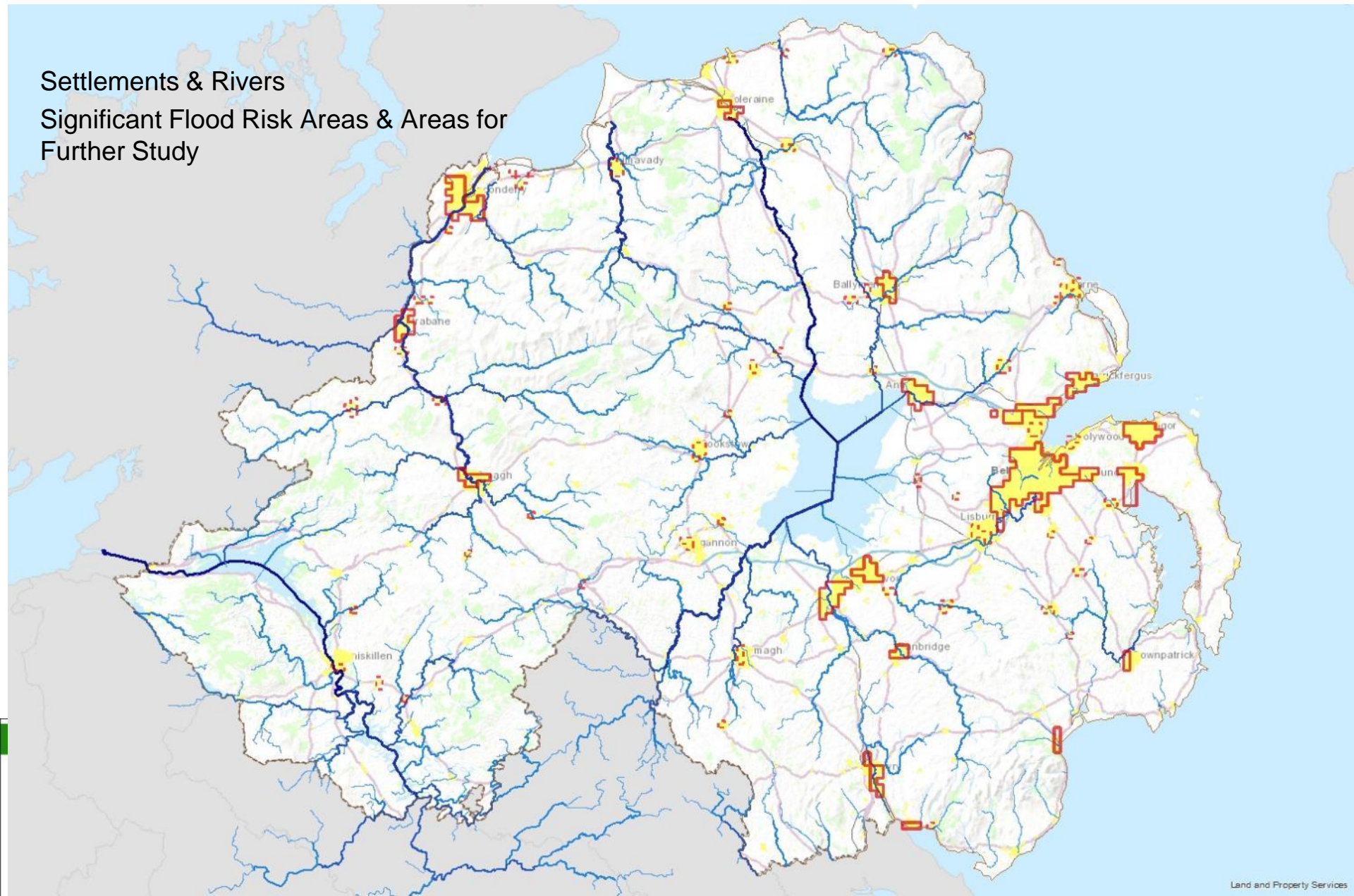
Settlements & Rivers
Flooded Properties (since 2007)



Northern Ireland - Overview

Settlements & Rivers

Significant Flood Risk Areas & Areas for Further Study

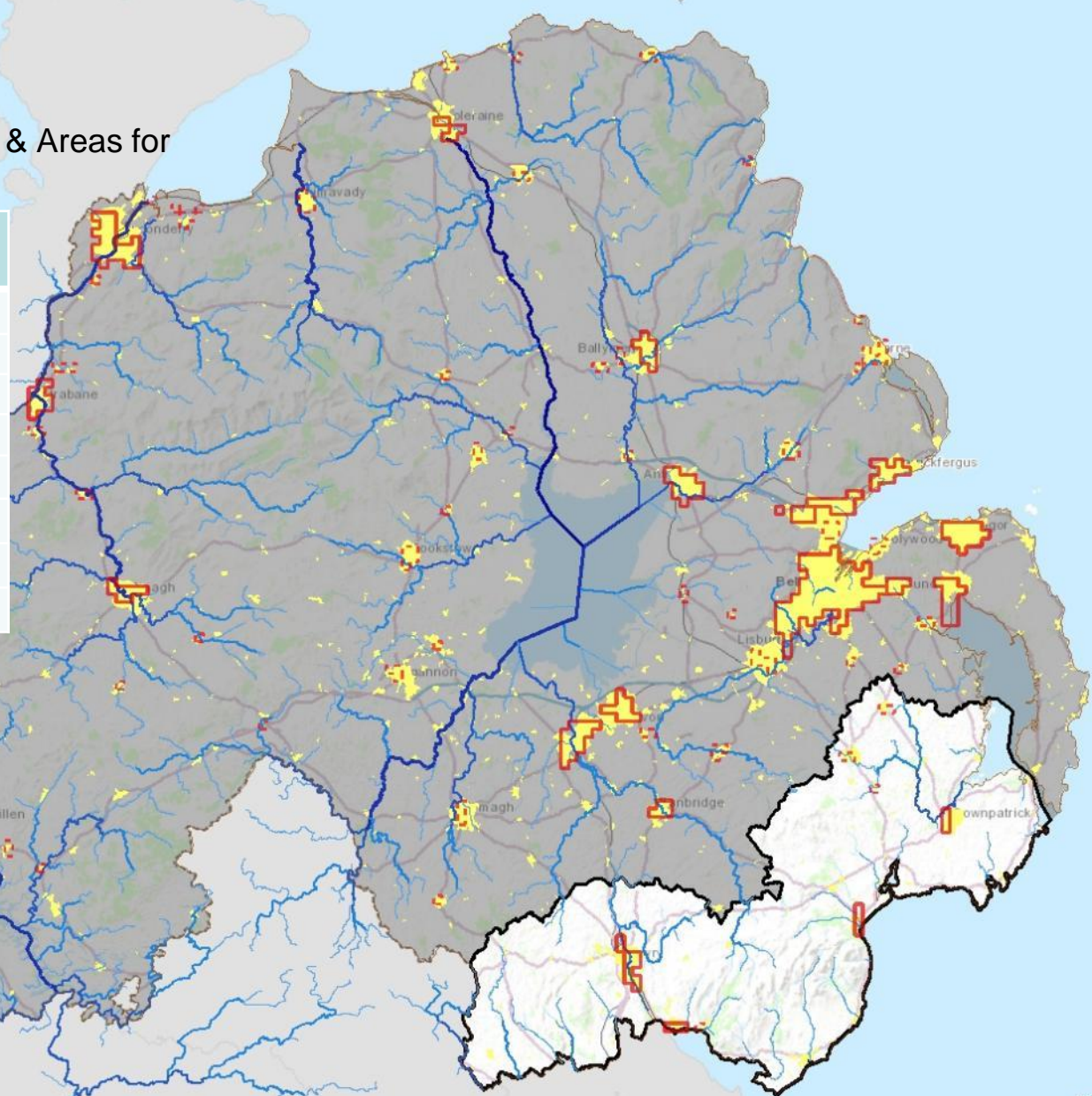


Newry, Mourne & Down

Settlements & Rivers

Significant Flood Risk Areas & Areas for Further Study

Settlement	SFRA or AFS
Downpatrick	SFRA
Newcastle	SFRA
Newry	SFRA
Warrenpoint	SFRA
Ballynahinch	AFS
Drumaness	AFS
Rostrevor	AFS
Saintfield	AFS

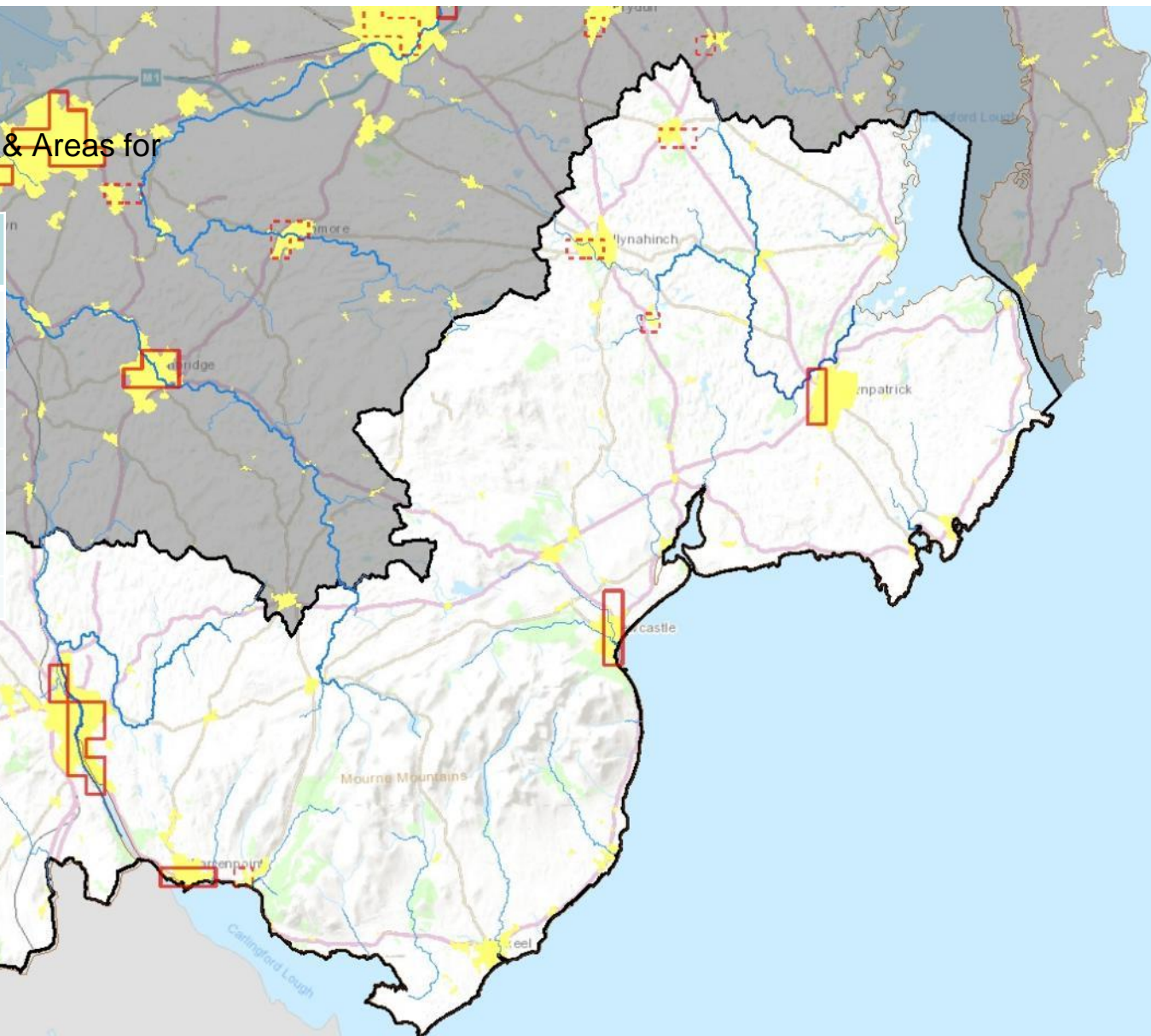


Newry, Mourne & Down

Settlements & Rivers

Significant Flood Risk Areas & Areas for Further Study

Settlement	SFRA or AFS
Downpatrick	SFRA
Newcastle	SFRA
Newry	SFRA
Warrenpoint	SFRA
Ballynahinch	AFS
Drumaness	AFS
Rostrevor	AFS
Saintfield	AFS



Detailed Maps - Flood Hazard – What the Directive requires....

CHAPTER III

FLOOD HAZARD MAPS AND FLOOD RISK MAPS

Article 6

1. Member States shall, at the level of the river basin district, or unit of management referred to in Article 3(2)(b), prepare flood hazard maps and flood risk maps, at the most appropriate scale for the areas identified under Article 5(1).

2. The preparation of flood hazard maps and flood risk maps for areas identified under Article 5 which are shared with other Member States shall be subject to prior exchange of information between the Member States concerned.

3. Flood hazard maps shall cover the geographical areas which could be flooded according to the following scenarios:

(a) floods with a low probability, or extreme event scenarios;

(b) floods with a medium probability (likely return period ≥ 100 years);

(c) floods with a high probability, where appropriate.

See following slides for examples of Flood Hazard

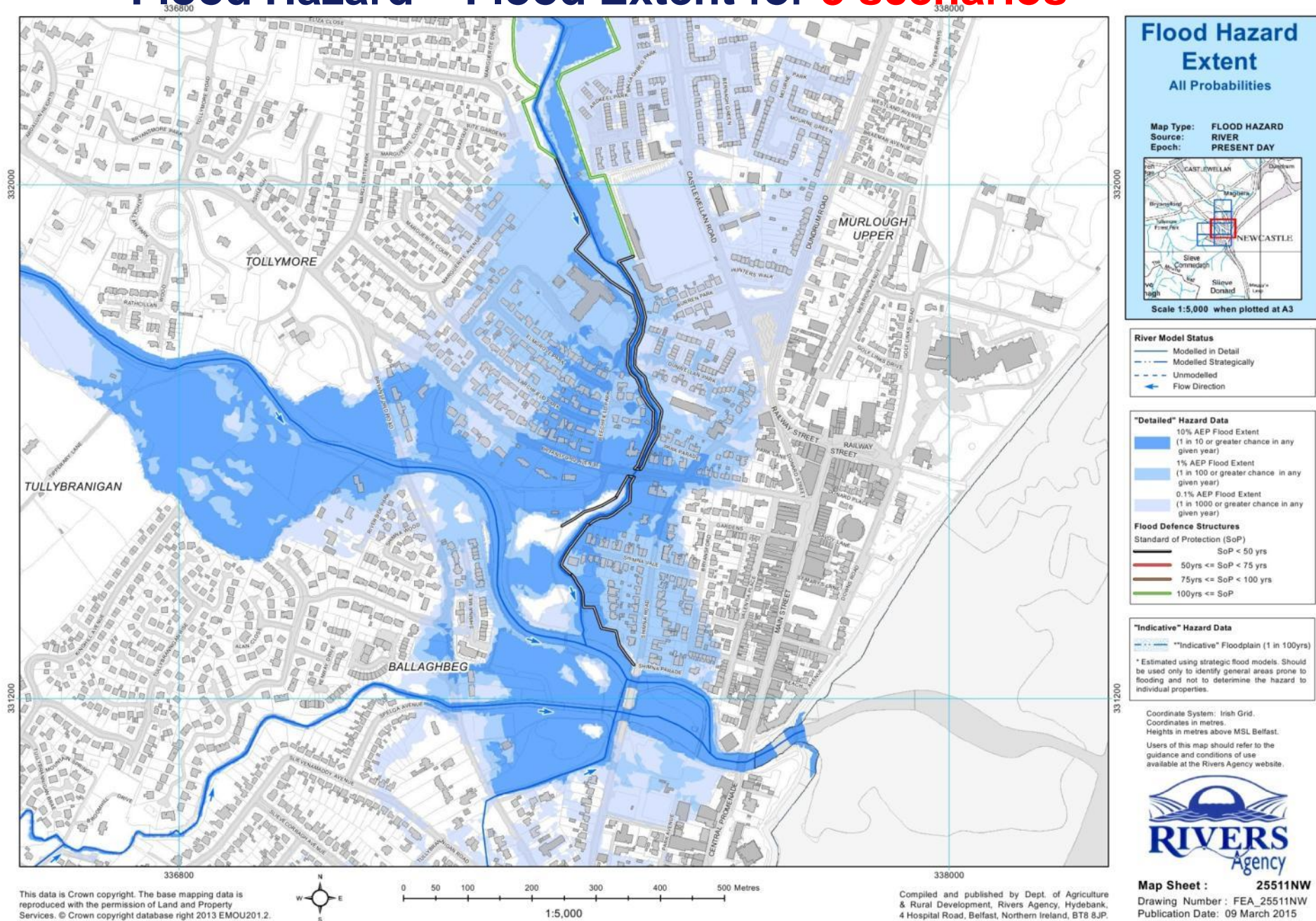
4. For each scenario referred to in paragraph 3 the following elements shall be shown:

(a) the flood extent;

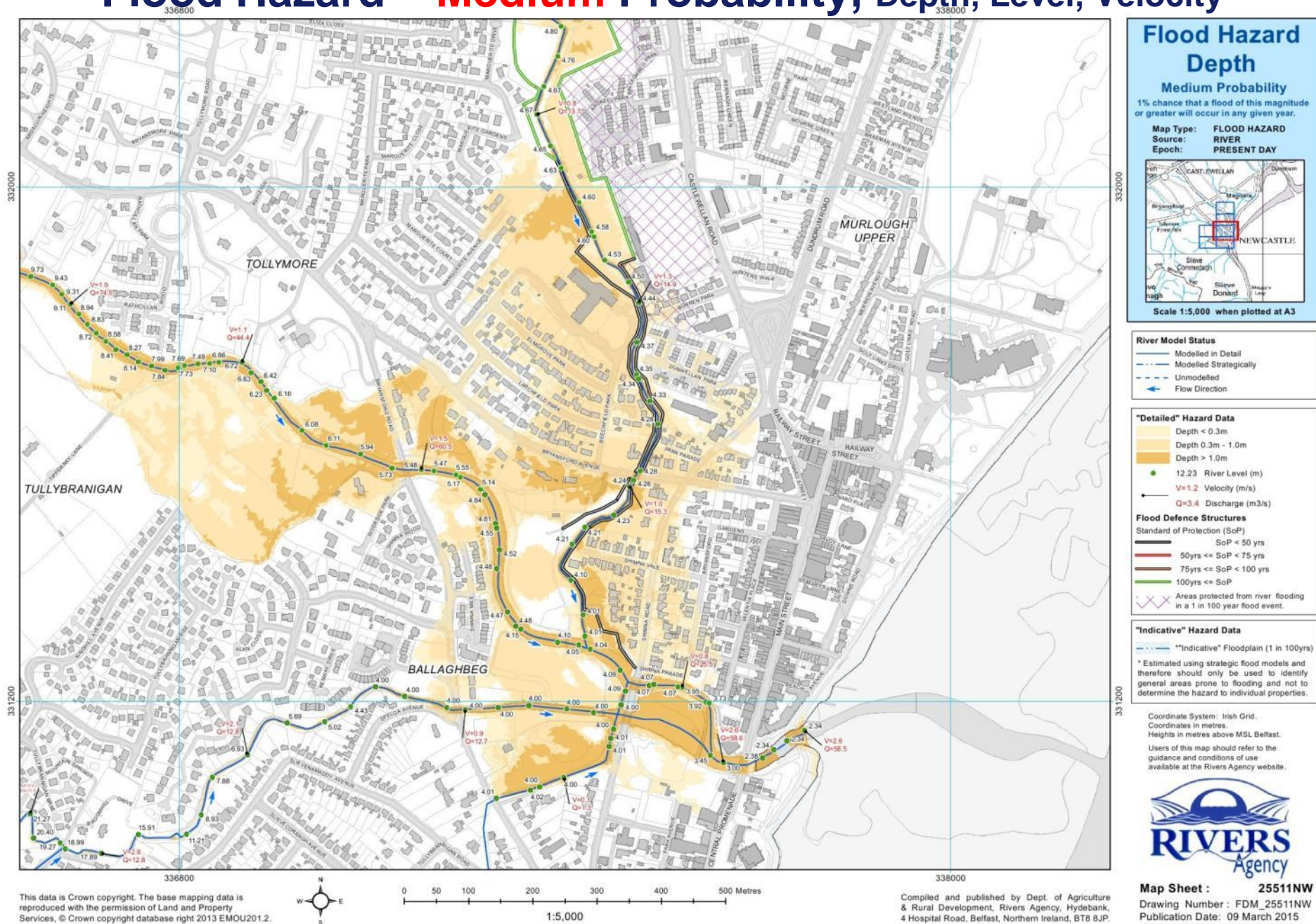
(b) water depths or water level, as appropriate;

(c) where appropriate, the flow velocity or the relevant water flow.

Flood Hazard – Flood Extent for 3 scenarios



Flood Hazard – Medium Probability, Depth, Level, Velocity



Detailed Maps - Flood Risk - What the Directive Requires....

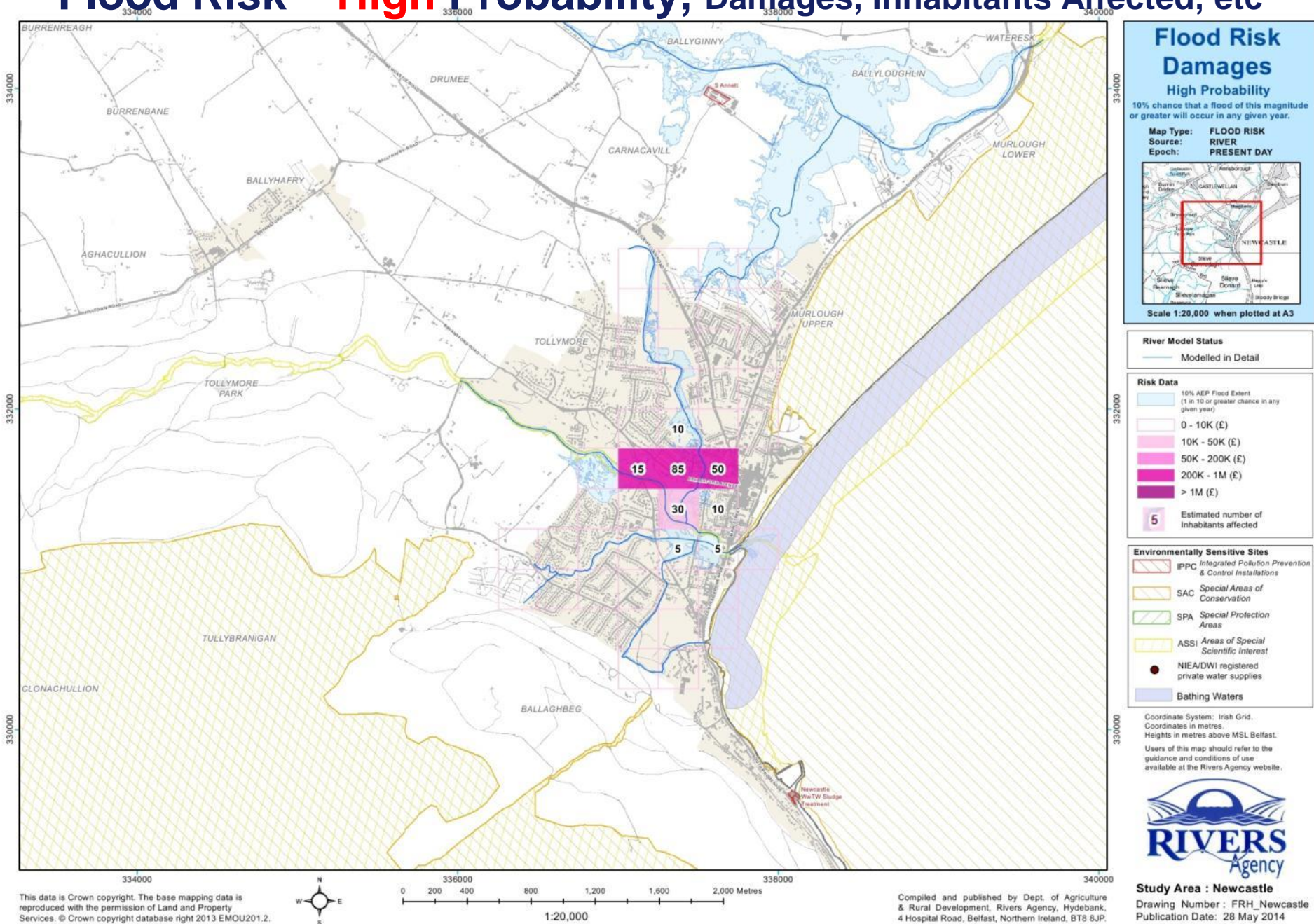
5. Flood risk maps shall show the potential adverse consequences associated with flood scenarios referred to in paragraph 3 and expressed in terms of the following:

- (a) the indicative number of inhabitants potentially affected;
- (b) type of economic activity of the area potentially affected;
- (c) installations as referred to in Annex I to Council Directive 96/61/EC of 24 September 1996 concerning integrated pollution prevention and control ⁽¹⁾ which might cause accidental pollution in case of flooding and potentially affected protected areas identified in Annex IV(1)(i), (iii) and (v) to Directive 2000/60/EC;
- (d) other information which the Member State considers useful such as the indication of areas where floods with a high content of transported sediments and debris floods can occur and information on other significant sources of pollution.

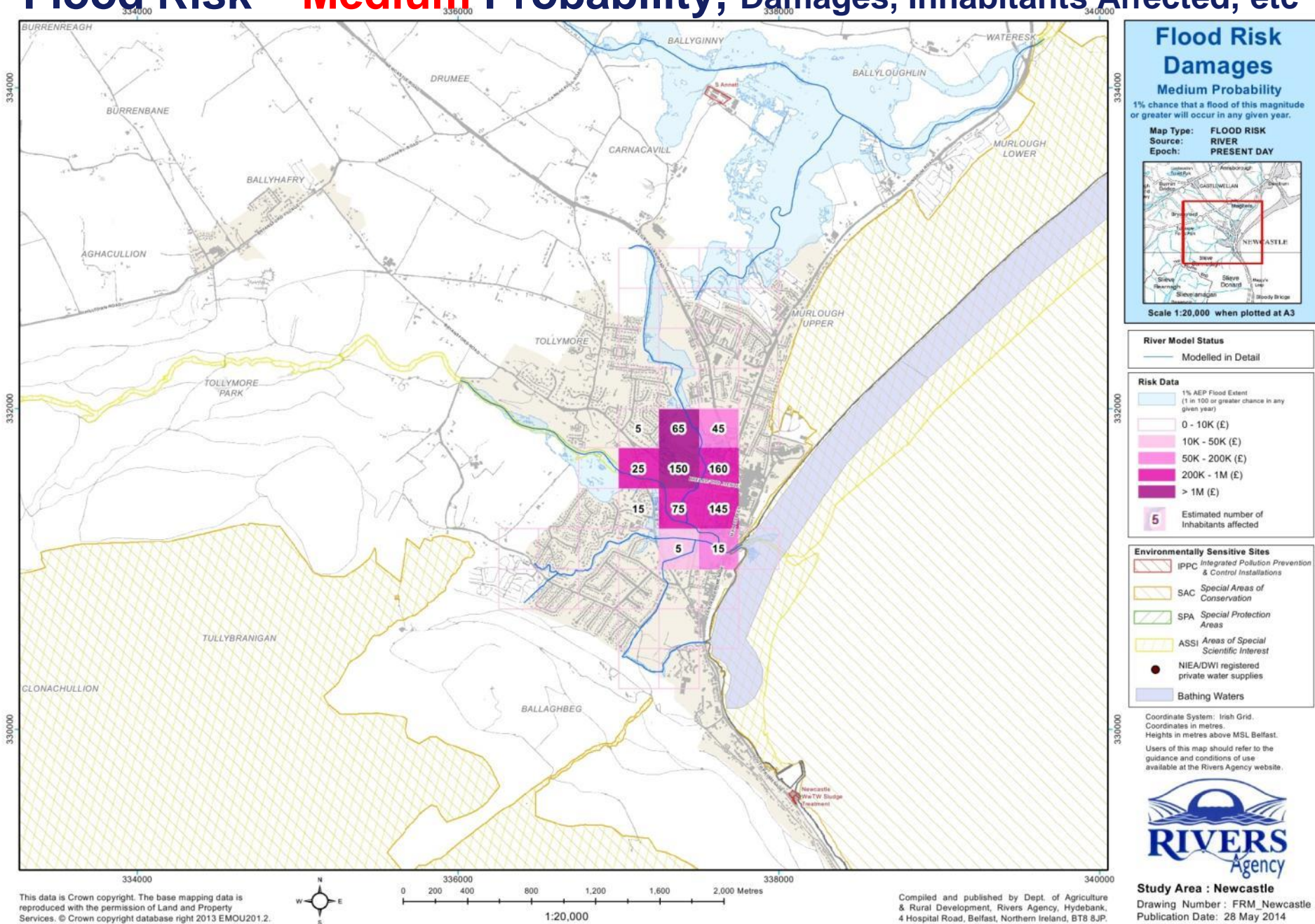
See handouts for example of Flood Risk....



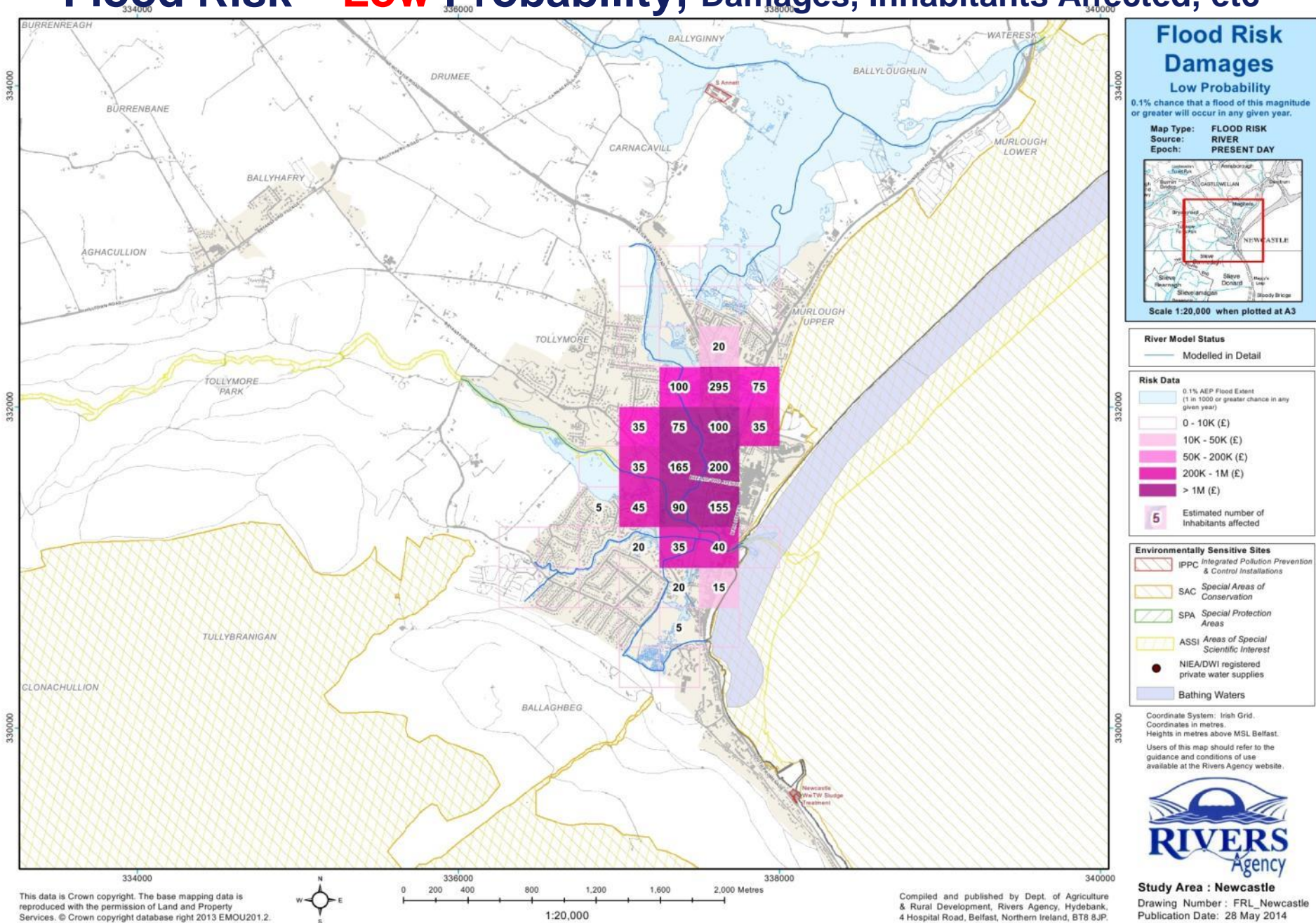
Flood Risk – High Probability, Damages, Inhabitants Affected, etc



Flood Risk – **Medium** Probability, Damages, Inhabitants Affected, etc



Flood Risk – Low Probability, Damages, Inhabitants Affected, etc



Flood Hazard “pdf” Maps – NI v [Newry, Mourne & Down]

Flood Source	Ref	Description	Plot Size / Scale	NI Total	Council Total
Fluvial	FH1	Flood Extent, 3 probabilities	A3, 1:5000	2,440	216 (9%)
	FH2	Flood Depth, Q10			
	FH3	Flood Depth, Q100			
	FH4	Flood Depth, Q1000			
Surface Water	SH1	Flood Extent, 3 probabilities	A3, 1:10,000	2,232	276 (12%)
	SH2	Flood Depth, 30 year rainfall			
	SH3	Flood Depth, 200 year rainfall			
	SH4	Flood Depth, 1000 year rainfall			
Tidal	TH1	Flood Extent, 3 probabilities	A3, 1:10,000	128	20 (16%)
	TH2	Flood Depth, 10 year tidal			
	TH3	Flood Depth, 200 year tidal			
	TH4	Flood Depth, 1000 year tidal			



Flood Risk maps have been produced for Fluvial & Tidal only - A3,1:20,000

Agenda

- 1) Floods Directive – Flood Hazard & Flood Risk Maps
- 2) Access to Flood Mapping Information
- 3) Further Work
- 4) Questions

Public Access – Flood Maps NI

<http://www.dardni.gov.uk/index/rivers/flood-maps-ni.htm>

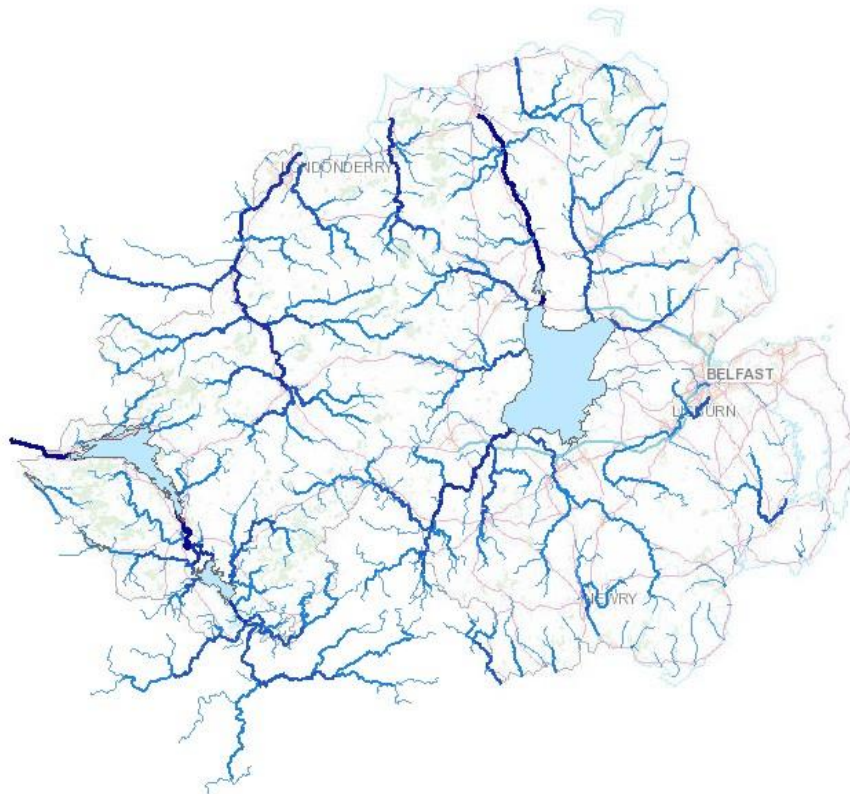


Flood Maps (NI)



search for an address

[User Guide](#)



"Indicative" Flood Maps

Use to locate general areas at risk of flooding

☒ Present Day

- ☐ Floodplain - Rivers (1% AEP)
- ☐ Floodplain - Sea (0.5% AEP)
- ☐ Surface Water (0.5% AEP)

☐ Climate Change (2030)

☐ Historical Flooding



"Detailed" Flood Hazard Maps

Use to identify specific properties/sites at risk of flooding

☐ Significant Flood Risk Areas

Select button to show grid of available maps

☒ Rivers

☐ Flood Hazard Extent (All Probabilities)

Flood Hazard Depth (choice of 3 Probabilities)

☐ High ☐ Medium ☐ Low

☐ Coastal Tides

☐ Surface Water

Zoom to your area of interest. Select the Point Tool below, when it turns green click within a grid tile to open a detailed map.



RIVERS Agency

Crown Copyright

OSNI mapping © Crown copyright

50 km

50 mi

X:361560 Y:480216 Scale: 1,100,000



Northern Ireland Mapping Agreement

- Rivers Agency and LPS partnership for licensing Flood Mapping products.
- The Flood Mapping products are now included in NIMA, which means they are available NIMA customers or those working on behalf of NIMA customers (this includes all Northern Ireland Civil Service Departments, Agencies, Non Departmental Public Bodies and Councils).



Department of
**Agriculture and
Rural Development**

www.dardni.gov.uk

Government access to Flood Mapping Data

- Flood Mapping has been provided to Planning NI; and has now been included on the Planning Portal.
- Flood Mapping has been provided to Spatial NI; in the future the detail flood mapping will be readily available to Planning staff in the Councils, for use within their desktop GIS systems (e.g. in developing Area Development Plans)
- Licensed Flood Mapping services available now via Flood Maps (NI)



Flood Maps (NI)

Agenda

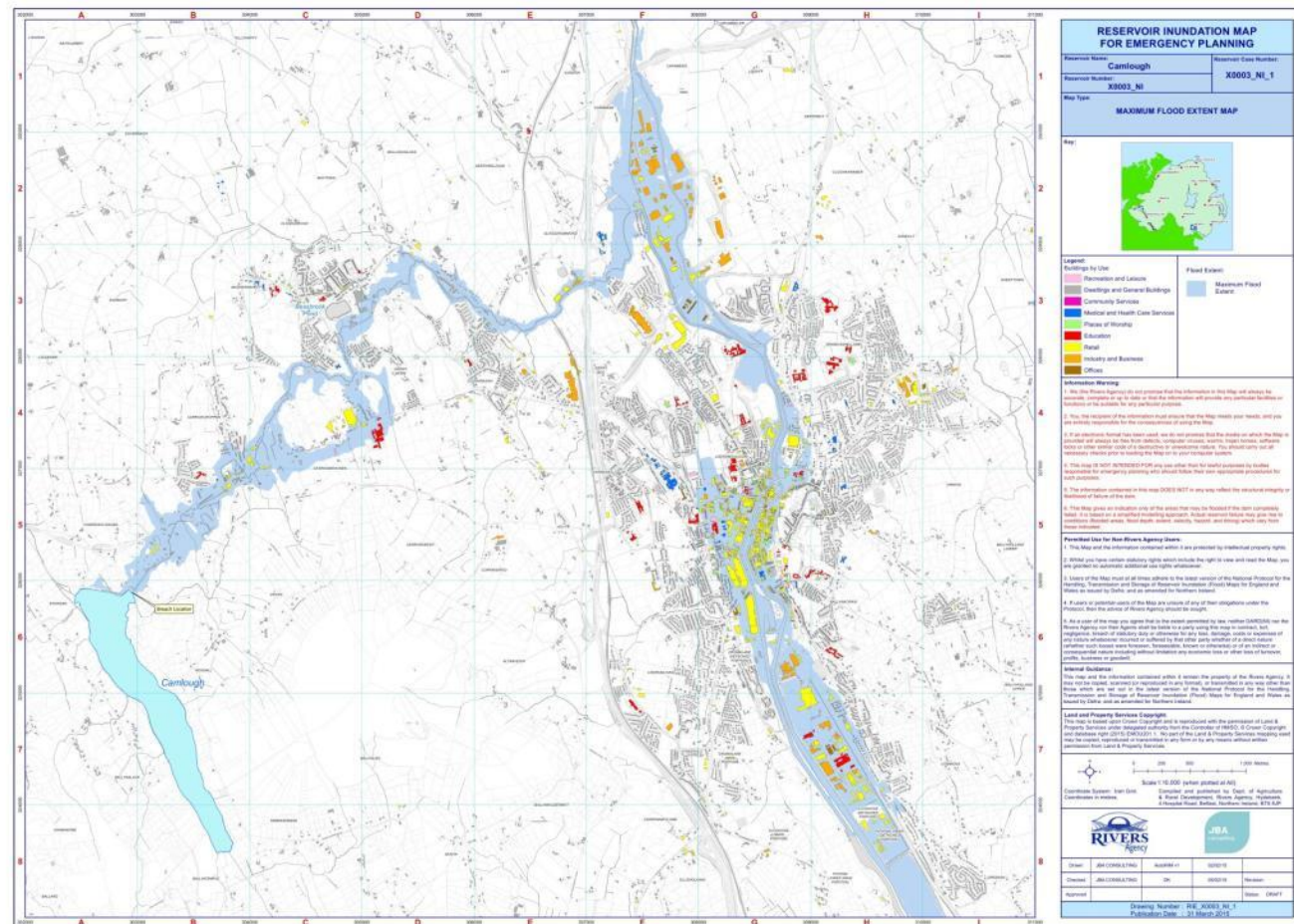
- 1) Floods Directive – Flood Hazard & Flood Risk Maps
- 2) Access to Flood Mapping Information
- 3) Further Work
- 4) Questions

Flood Animations

- Outputs from the Flood Models may also be used to create animations of flood events
- Can be useful for understanding flooding mechanisms, and an aid in developing emergency plans.
- Animations are on FloodRiskManagementNI [Vimeo](#) website
 - Q100 Newry Animation April '15
 - <https://vimeo.com/126109138>

Reservoir Flood Mapping

- Detailed Reservoir Flood Maps are being produced for approx 130 reservoirs.
- Models & Maps are to a similar specification to those produced in England & Wales
- Planning considerations fall under PPS15 (FLD5)



Flood Re – UK Scheme to provide Affordable Flood Insurance

- ‘Flood Re’ replaces the ‘Statement of Principles’
- Objective is to ensure domestic properties in UK at highest risk of flooding can receive affordable cover for the ‘flood’ element of their household property insurance
- Applies to domestic properties only; commercial properties excluded
- New housing development should be located to avoid flood risk, therefore properties built after 1st Jan '09 will be excluded.
- Secondary Legislation (Scheme Regulations), was laid before UK parliament April '15.

For more information:

- [DEFRA Water Bill: Pt4 – Flood Insurance](#)
- [ABI – Flood Re Explained](#)

Questions?

Malcolm Calvert (Principal Engineer, Mapping & Modelling Unit)

Jim Martin (Regional Engineer - Eastern)

Rivers Agency,
Mapping & Modelling Unit,
Hydebank, 4 Hospital Road,
Ballydolloghan,
Belfast,
BT8 8JP

E-mail: malcolm.calvert@dardni.gov.uk

Website: www.riversagency.go.uk

Other Resources

Item	Link
Watercourse Designations	http://www.dardni.gov.uk/index/rivers/ni-drainage-council/current-members-of-drainage-council/map-of-designations-approved-by-drainage-council-ni.htm
Annual Maintenance Programme	http://www.dardni.gov.uk/index/rivers/rivers-our-projects/rivers-maintenaince/annual-watercourse-maintenance-programme.htm
Draft Flood Risk Management Plans (Consultation)	http://www.dardni.gov.uk/index/consultations/consultation-on-draft-flood-risk-management-plans.htm
PPS15 (Revised)	http://www.planningni.gov.uk/index/policy/planning_statements/pps15revised-2.htm



Flood Risk Management - The 3 Ps

- **P**revention
- **P**rotection
- **P**reparedness

Prevention

Prevent future development that may be at risk of flooding or that may increase the risk of flooding elsewhere. May also include the relocation of specific high risk receptors

Measure Type	Measures
Land use planning policies to prevent the location of additional receptors in flood prone areas.	<ul style="list-style-type: none"> Consider revision of Planning Policy Statement 15 – Planning and Flood Risk to maximise compliance with Floods Directive. For example, address risk from additional sources such as surface water, reservoir impoundment failure and review climate change epoch.
Remove receptor from floodplain or to a location with a reduced flood hazard (i.e. depth, velocity, return period)	<ul style="list-style-type: none"> Consider government policy on managed realignment/ property relocation.

Prevention.

PPS 15 - Planning and Flood Risk

The primary means of avoiding and reducing flood risk to and from new development

Build Here

Not Here



Taking measures (both structural and non-structural) to reduce the likelihood of floods and/or their impact of floods in a specific location.

Measure Type	Measures	
Hard Engineering	<ul style="list-style-type: none"> •Flood Defences (walls/embankments) •Culverts/channels •Diversionary channels 	<ul style="list-style-type: none"> •Demountable barriers •Off-line storage •SUDs (new-build & retrofit) •Managing exceedance flows within urban landscape
Soft Engineering	<ul style="list-style-type: none"> •Upstream Flood Storage Areas •Channel Re-sectioning and/or Realignment 	<ul style="list-style-type: none"> •Risk focused channel maintenance •Removal of existing rural flood banks
Natural Flood Management	<ul style="list-style-type: none"> •Restore drained bogs •Restore/Create wetland habitats •Plant native forests in upland areas 	<ul style="list-style-type: none"> •Plant wet woodland within floodplain •Blocking of forest drains •Restore natural river channels
Building 'Flood Resistance'	<ul style="list-style-type: none"> •Install water-tight flood shields •Install anti-backflow valves on sewer outlets •Community Flood Warden Scheme •Flood proofing grant scheme for homeowners 	<ul style="list-style-type: none"> •Raise ground floor level above flood level •Impermeable external walls •Develop Building Regulations/Guidance
Key/Critical Infrastructure 'Flood Resistance'* (following FRA by owner/operator).	<ul style="list-style-type: none"> •Local permanent or demountable defence systems 	

Raising awareness of flood risk and planning for emergency response and recovery.

Measure Type	Measures	
Raise Awareness	<ul style="list-style-type: none"> •Assess/Map/Inform/Advise •Local Flood Forums 	
Emergency Response	<ul style="list-style-type: none"> •Flood forecasting •Flood warning •Multi- Agency Emergency Response Plans 	<ul style="list-style-type: none"> •Local Community Flood Plans •‘Controlled’ Reservoir Flood Plans •Feedback mechanisms for lessons learnt
Building/Asset Flood Resilience	<ul style="list-style-type: none"> •Resistant construction materials •Moveable appliances •Flood proofing grant scheme for homeowners 	<ul style="list-style-type: none"> •Raise services above flood level. •Develop Building Regulations/Guidance
Key/Critical Infrastructure Resilience** (Following Flood Risk Assessment by owner/operator).	<ul style="list-style-type: none"> •Review and agree standards for resilience of Critical Infrastructure •Business Continuity Plans •Networking of services to minimise interruptions to delivery. 	<ul style="list-style-type: none"> •Ensure availability of generators to buffer affects of power outage to critical asset. •Robust provisions for procurement of external resources for incident management.
Flood Insurance	<ul style="list-style-type: none"> •Government/ABI cooperation to maximise accessibility to flood insurance. 	