

<b>Location:</b>		<b>Unique ID:</b> (from PFRA database)	
<b>Initial OPW Designation</b>	APSR <input type="checkbox"/>	AFRR <input type="checkbox"/>	IRR <input type="checkbox"/>
<b>Co-ordinates</b>	<b>Easting:</b>		<b>Northing:</b>
<b>River / Catchment / Sub-catchment</b>			
<b>Type of Flooding / Flood Risk</b> (identify all that apply)	Fluvial non-tidal <input type="checkbox"/>	Fluvial tidal <input type="checkbox"/>	Coastal <input type="checkbox"/>

<b>Stage 1: Desktop Review</b>	
<b>1.1 Flood History</b> (include review of Floodmaps.ie)	
<b>1.2 Relevant information on flooding issues from OPW and LA staff</b>	PFRA database comments ( <i>in italics</i> ):
	<i>OPW comments</i>
	<i>LA comments</i>
	Meeting / discussion summary comments:
	OPW comments
	LA comments

**Comment:**  
Include a brief summary e.g. number of events recorded, when, type of flooding, areas affected.

**Comment:**  
Notes directly from the PFRA database.

**Comment:**  
Summary comments from notes made at Regional OPW meetings and LA meetings / discussions.

1.4 PFRA Data			
1.4.1 PFRA hazard mapping	PFRA mapping available in GIS layer:	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	PFRA mapping included on FRR map:	Yes <input type="checkbox"/>	No <input type="checkbox"/>
1.4.2 Summary of Principal Receptors	Type	FRI score (if available)	
1.7 Stage 1 Evaluation	Aspect	Clearly APSR	Uncertain
	Flood History (1.1)		
	OPW / LA Information (1.2)		
	PFRA Evaluation (1.4)		
	Overall Desktop Evaluation (if any above aspect is uncertain then overall designation is uncertain)		
1.8 Proposed level of assessment for Stage 2 site visits	Level A Site Visit		
	Level B Site Visit		

**Comment:**  
Include principal receptors only, particularly those generating high FRI scores.

The sum of the FRI scores from the receptors shown will not generally add up to the Total FRI score.

The balance of the score is from residential and commercial aspects.

<b>Stage 2: Site Inspection</b>		<b>Level A Assessment</b>		
<b>Date and Time of Inspection</b>		<b>Date:</b>		
		<b>Time:</b>		
<b>Names of inspection team (including OPW/LA staff if present)</b>				
<b>2.1 Ground-truthing of Hazard Mapping</b>	Fluvial non-tidal <input type="checkbox"/> Fluvial tidal <input type="checkbox"/> Coastal <input type="checkbox"/> Not available <input type="checkbox"/>			
<b>2.2 Spot check ground-truthing of selected receptor vulnerability</b>  (also note any key receptors noted during visit that are not identified by PFRA)	<b>Receptor Type</b>	<b>Location description (if not obvious)</b>	<b>Exists?</b>	<b>Overall Vulnerability / Risk (L / M / H)</b>
<b>2.3 Local knowledge - on-site comments</b>  (OPW, LA and any info volunteered by local residents during visit)				
<b>2.4 Comments on hydraulic constrictions (bridges, etc.) and conveyance routes</b>				

**Comment:**  
Comment on how realistic the flood mapping appears to be. Include (as necessary) shape of outline and extent for the given event.

**Comment:**  
Comment on selected receptors, with a focus on key receptors e.g. most vulnerable, or those that generate high FRI scores.

**Comment:**  
ON SITE comments only. Note that comments from OPW and LAs from meetings are included as part of the desk based study under 1.2.

**Comment:**  
Restrictions are based on on-site judgment taking account of: (1) channel size (2) culvert / bridge openings (3) flow velocity. The critical issue is whether the observed conditions will give rise to significant head loss across the structure.

## 2.5 SVRS Assessment Matrix

### Weightings:

A - x1 - reasonable expectation of flooding

B - x2 - high expectation of flooding  
or flooding is tidal (any risk)

C - x5 - risk to life

Approx. Number	1 to 4			5 to 20			>20				
	Weighting	A	B	C	A	B	C	A	B	C	
Property (domestic)	10				100				200		
Property (small retail or business)	20				200				400		
Property (large retail or business)	50				500				1000		
Road or Rail Infrastructure	30				300				600		
Critical Infrastructure (local) [hospital, school, police/fire/ambulance station, substation, WTW/WWTW, gov bldg, other (specify)]	50				500				1000		
Critical Infrastructure (national importance)	250				1000				2000		
Cultural Heritage Site	20				200				400		
Environmental Designated Site	20				200				400		
Hazardous Substances Site	50				500				1000		

**Comment:**

Road flooding should only be noted where this leads to significant disruption or safety issues e.g. major diversion, properties marooned, long duration, fast flowing water etc.

**Comment:**

Noted only where flooding would be detrimental to the site.

**Comment:**

Noted only where flooding would be detrimental to its environmental value.

### Total SVRS

## 2.6 Defence Assets

### Formal and Informal Flood Defence Assets

(include effective and ineffective assets to inform asset survey and potential mitigation measures)

#### Open Channel Watercourses

Man-made river channel  Flood relief channel  Canal   
Mill leat  Drainage channels / back drains

#### Bridges and Culvert crossings

Single Arch bridge  Multi-Arch bridge   
Single Span bridge  Multi-Span bridge   
Box culvert(s)  Pipe culvert(s)  Arch Culvert(s)

#### Culverted Watercourses (culvert length is greater than just a crossing)

Box culvert(s)  Pipe culvert(s)  Arch Culvert(s)  Irregular Culvert(s)

#### Walls and Embankments

Embankment(s)  Raised wall(s)  Retaining wall(s)

#### Control Structures – weirs, gates, dams

Fixed crest weir  Adjustable weir  Dam / Barrage   
Sluice gates  Lock gates  Radial gates

#### Storage

On-line storage (natural)  On-line storage (artificial)  Off-line storage

	<p><b>Outfalls</b></p> <p>Flapped outfall(s) into watercourse <input type="checkbox"/>      Unflapped outfall(s) into watercourse <input type="checkbox"/>  <i>i.e. from smaller watercourses, drains etc. into river / estuary / sea</i></p> <p>Tidal flap(s) <input type="checkbox"/>      Tidal sluice(s) <input type="checkbox"/>  <i>i.e. from main watercourse into estuary / sea</i></p> <p><b>Other</b></p> <p>Pumping Station <input type="checkbox"/>      Erosion Protection <input type="checkbox"/>      Sand Dunes <input type="checkbox"/></p> <p><b>Additional notes (if required):</b></p>
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**Comment:**  
Identification of most likely options that could technically potentially deliver a solution. It is not a comment on whether the measures would be economically viable or environmentally acceptable.

<b>2.8 Initial Potential Mitigation Measures</b>	
<b>Non-structural measures</b>	Planning and Development control <input type="checkbox"/> Sustainable Urban Drainage Systems <input type="checkbox"/> Flood forecasting / warning <input type="checkbox"/> Change in Operating Procedures for water level control: <input type="checkbox"/> Public awareness campaign <input type="checkbox"/> Individual property protection <input type="checkbox"/> Land use management <input type="checkbox"/>
<b>Structural measures</b>	<p><b>Strategic development management for floodplain development:</b> <input type="checkbox"/>  <i>(integration of measures into strategic development proposals)</i></p> <p><b>Storage:</b>                      On-line <input type="checkbox"/>                      Off-line <input type="checkbox"/></p> <p><b>Flow diversion:</b> Flood relief channel <input type="checkbox"/>                      Flood relief culvert <input type="checkbox"/></p> <p><b>Increase conveyance:</b> Bridge works <input type="checkbox"/>                      Channel works <input type="checkbox"/>                      Floodplain <input type="checkbox"/></p> <p><b>Flood defences:</b>                      Walls <input type="checkbox"/>                      Embankments <input type="checkbox"/></p> <p><b>Localised works:</b>                      Defence raising <input type="checkbox"/>                      In-fill gaps <input type="checkbox"/>                      Trash screen <input type="checkbox"/></p> <p><b>Maintenance works:</b> Culvert / channel clearance <input type="checkbox"/>                      Asset maintenance <input type="checkbox"/></p> <p><b>Relocation of properties:</b> <input type="checkbox"/></p> <p><b>Improve existing defences:</b> <input type="checkbox"/> (describe)</p> <p><b>Other (describe):</b></p>

**Comment:**  
**Uncertain** – For example, this could be due to minor issues with identification of critical receptors, flood outline appearing unlikely for a given event (although the shape may be reasonable), or the outline being exaggerated in a few locations.

<b>Outcomes</b>				
<b>PFRA Designation</b>	APSR <input type="checkbox"/> not an APSR <input type="checkbox"/> IRR <input type="checkbox"/>	<b>FRI Score:</b>		
<b>Site Ground-truthing of PFRA Assessment (hazard mapping and receptors)</b>	<b>High Confidence (good)</b>	<b>Uncertain</b>	<b>Low Confidence (poor)</b>	<b>Not available</b>
<b>Site Visit Review Score</b>				
<b>Recommended Designation</b>	APSR <input type="checkbox"/>	not an APSR <input type="checkbox"/>	IRR <input type="checkbox"/>	
<b>Summary Comments (if required)</b>				

**Comment:**  
**High Confidence (good)**– Receptors correct, and mapping outline is good both in terms of the shape of outline and the extent shown for the given AEP events.

**Comment:**  
**Low Confidence (poor)** – Critical receptors are not correct, or flood outline and extent appears unlikely in several places.

**Comment:**  
Use if necessary to describe unusual situations, identify critical issues etc. as relevant to inform the recommendation from the Flood Risk Review..

<b>Stage 2: Site Inspection</b>		<b>Level B Assessment</b>		
<b>Date and Time of Inspection</b>		<b>Date:</b>		
		<b>Time:</b>		
<b>Names of inspection team (including OPW/LA staff if present)</b>				
<b>2.3 Local knowledge - on-site comments (OPW, LA and any info volunteered by local residents during visit)</b>				
<b>2.4 Comments on hydraulic constrictions (bridges, etc.) and conveyance routes</b>				
<b>2.6 Defence Assets</b>				
<b>Formal and Informal Flood Defence Assets</b> <i>(include effective and ineffective assets to inform asset survey and potential mitigation measures)</i>	<b>Open Channel Watercourses</b>			
	Man-made river channel <input type="checkbox"/>	Flood relief channel <input type="checkbox"/>	Canal <input type="checkbox"/>	
	Mill leat <input type="checkbox"/>	Drainage channels / back drains <input type="checkbox"/>		
	<b>Bridges and Culvert crossings</b>			
	Single Arch bridge <input type="checkbox"/>	Multi-Arch bridge <input type="checkbox"/>		
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	Box culvert(s) <input type="checkbox"/>	Pipe culvert(s) <input type="checkbox"/>	Arch Culvert(s) <input type="checkbox"/>	
	<b>Culverted Watercourses</b> (culvert length is greater than just a crossing)			
	Box culvert(s) <input type="checkbox"/>	Pipe culvert(s) <input type="checkbox"/>	Arch Culvert(s) <input type="checkbox"/>	Irregular Culvert(s) <input type="checkbox"/>
	<b>Walls and Embankments</b>			
Embankment(s) <input type="checkbox"/>	Raised wall(s) <input type="checkbox"/>	Retaining wall(s) <input type="checkbox"/>		
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Fixed crest weir <input type="checkbox"/>	Adjustable weir <input type="checkbox"/>	Dam / Barrage <input type="checkbox"/>		
Sluice gates <input type="checkbox"/>	Lock gates <input type="checkbox"/>	Radial gates <input type="checkbox"/>		
<b>Storage</b>				
On-line storage (natural) <input type="checkbox"/>	On-line storage (artificial) <input type="checkbox"/>	Off-line storage <input type="checkbox"/>		

**Comment:**  
ON SITE comments only. Note that comments from OPW and LAs from meetings are included as part of the desk based study under 1.2.

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<b>Outcomes</b>		
<b>Recommended Designation</b>	APSR <input type="checkbox"/>	not an APSR <input type="checkbox"/>
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<b>Summary Comments (if required)</b>		

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