

<b>Location: Portumna, Co. Galway</b>		<b>Unique ID: 250437</b> (from PFRA database)	
<b>Initial OPW Designation</b>	<b>APSR</b> <input checked="" type="checkbox"/>	<b>AFRR</b> <input type="checkbox"/>	<b>IRR</b> <input type="checkbox"/>
<b>Co-ordinates</b>	<b>Easting: 185298</b>	<b>Northing: 204550</b>	
<b>River / Catchment / Sub-catchment</b>	<b>River Shannon / Shannon</b>		
<b>Type of Flooding / Flood Risk</b> (identify all that apply)	<b>Fluvial non-tidal</b> <input checked="" type="checkbox"/>	<b>Fluvial tidal</b> <input type="checkbox"/>	<b>Coastal</b> <input type="checkbox"/>

<b>Stage 1: Desktop Review</b>	
<b>1.1 Flood History (include review of Floodmaps.ie)</b>	<p><b>River Flow Path</b> Portumna is on the right bank of the Shannon as it enters Lough Derg. There are two tributaries to the Shannon that flow through Portumna in a south easterly direction towards the Shannon / Lough Derg.</p> <p>Portumna is served with a five-span road bridge over the River Shannon. A number of harbours are located in the area. These are Connacht Harbour, which is beside Bridge Road, on the eastern side of the town, and Portumna Harbour which is on the northern shore of Lough Derg beside Castle Avenue, on the southern edge of the town.</p> <p><b>Flood Event Records</b> Five flood records are listed in floodmaps.ie. The most recent of which includes the 2009 flood event on the River Shannon. Events in 2006, 1994 and 1954 are also recorded.</p>
<b>1.2 Relevant information on flooding issues from OPW and LA staff</b>	<p><b>PFRA database comments (<i>in italics</i>):</b></p> <p><b>OPW comments</b> <i>Ref also 253160 (which is set as a duplicate). Identify single APSR by PFRA extents and historical extents with a number of risk receptors above threshold Confirmed as APSR, with 253160 as duplicate</i></p> <p><b>LA comments</b> <i>Portumna &amp; South East - Influenced by River Shannon-Yes should get serious consideration see previous list from morning. Premises flooded. Housing Estate at serious risk of flooding. Road flooded and closed cutting off access to Tipperary. - Needs to be included – serious risk</i></p> <p><b>Meeting / discussion summary comments:</b></p> <p><b>LA comments</b></p> <ul style="list-style-type: none"> <li>• River Shannon is the flood risk. November 2009 widespread flooding to businesses and properties. ESB flood banks were overtopped.</li> <li>• Flood route into town was through the harbour on right bank, upstream of bridge. N65 blocked from flooding. SWTW flooded also.</li> </ul>

<b>1.4 PFRA Data</b>			
<b>1.4.1 PFRA hazard mapping</b>	PFRA mapping available in GIS layer:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	PFRA mapping included on FRR map:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>1.4.2 Summary of Principal Receptors</b>	<b>Type</b>	<b>FRI score (if available)</b>	
	OPW_LV	10	
	UWWTP	25	
	Arch_Regional	30.1	
	Monument_LV	20	
	<b>Total</b>	<b>503.85</b>	
<b>1.7 Stage 1 Evaluation</b>	<b>Aspect</b>	<b>Clearly APSR</b>	<b>Uncertain</b>
	Flood History (1.1)	X	
	OPW / LA Information (1.2)	X	
	PFRA Evaluation (1.4)	X	
	Overall Desktop Evaluation (if any above aspect is uncertain then overall designation is uncertain)	X	
<b>1.8 Proposed level of assessment for Stage 2 site visits</b>	<b>Level A Site Visit</b>		
	<b>Level B Site Visit</b>		X

<b>Stage 2: Site Inspection</b>		<b>Level B Assessment</b>	
<b>Date and Time of Inspection</b>		<b>Date: 01/06/11</b>	
		<b>Time: 15:00</b>	
<b>Names of inspection team (including OPW/LA staff if present)</b>		<b>Peter Smyth</b>	
		<b>Mathieu Valois</b>	
<b>2.3 Local knowledge - on-site comments (OPW, LA and any info volunteered by local residents during visit)</b>	<p>An ESB representative was met on site informally. He confirmed ESB is maintaining the flood defence on the right bank of the Shannon. The floodplain behind the flood defence is drained by a network of ditches which are pumped into the Shannon. The pumping station is ESB asset.</p> <p>Local resident confirms flooding lasted at least 3 weeks in Nov 2009. He also mentioned localised flooding on St Joseph Rd from a tributary. A B&amp;B by the road bridge was flooded.</p>		
<b>2.4 Comments on hydraulic constrictions (bridges, etc.) and conveyance routes</b>	<p>N65 road bridge across Shannon and upstream of Lough Derg. Multi-span (rectangular openings) with steel parapet and low soffit level. There is a movable span to allow navigation along the Shannon, which is opened at fixed times every day.</p>		
<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"/>	
	Single Span bridge <input type="checkbox"/>	Multi-Span bridge <input checked="" type="checkbox"/>	
	Box culvert(s) <input type="checkbox"/>	Pipe culvert(s) <input checked="" type="checkbox"/>	Arch Culvert(s) <input checked="" 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 checked="" type="checkbox"/>	Raised wall(s) <input type="checkbox"/>	Retaining wall(s) <input type="checkbox"/>
	<b>Control Structures – weirs, gates, dams</b>		
	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"/>	
<b>Outfalls</b>			
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>			
Tidal flap(s) <input type="checkbox"/>	Tidal sluice(s) <input type="checkbox"/>		
<i>i.e. from main watercourse into estuary / sea</i>			
<b>Other</b>			
Pumping Station <input type="checkbox"/>	Erosion Protection <input type="checkbox"/>	Sand Dunes <input type="checkbox"/>	

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

<b>Outcomes</b>	
<b>Recommended Designation</b>	<b>APSR</b> <input checked="" type="checkbox"/> <b>not an APSR</b> <input type="checkbox"/> <b>IRR</b> <input type="checkbox"/>
<b>Summary Comments (if required)</b>	Portumna has a history of flooding. The PFRA mapping predicts an ongoing significant flood risk with this conclusion supported by both the Local Authorities and the OPW. Portumna was confirmed as an APSR following a desk based assessment with no on-site verification required.



**Photo 1:** ESB maintained embankments at Portumna.



**Photo 2:** Lough Derg at Portumna.



**Photo 3:** N65 Road Bridge at Portumna, maintenance works being carried out..



**Photo 4:** Tributary to the Shannon at Portumna.

