



Location: Ballyfarnon, Co. Roscommon			Unique ID: 263286 (from PFRA database)			
Initial OPW Designation	APSR 🗌	AFRR 🖂		IRR 🗌		
Co-ordinates	Easting: 186623	8 North		ing: 313762		
River / Catchment / Sub-catchment	Feorish River / Shannon					
Type of Flooding / Flood Risk (identify all that apply)	Fluvial non-tidal 🖂 Fluvial tidal 🗌 Coa					

(identify all that apply)						
Stage 1: Desktop	Review					
1.1 Flood History (include review of Floodmaps.ie)	River Flow Path The River Feorish flows through Ballyfarnon and meanders southward towards Lough Skean, approximately 1.5 kilometres downstream. The River Feorish is crossed by the R284 which is the main trunk road through Ballyfarnon. Flood Event Records Two flood records are listed on floodmaps.ie, one is from November 2009 while the other is un-dated.					
1.2 Relevant information on flooding issues from OPW and LA staff	PFRA database comments (in italics): OPW comments STW at riskOPW Regional OfficeHouseBut history, and 2009. STW at risk at all times. 5-6 houses at risk. 1-2 flood regularly. OPW have carried out drainage — River Feorish. Refer to John C.Murphy Decision should be based on OPW Regional Office confidence in works. LA comments Not designated APSR as failed to reach predictive analysis threshold. Additional info provided by LA as requested - upgrade from RR to APSR? Meeting / discussion summary comments: OPW comments Flood risk, flooded pre-2009, possibly due to blockage in bridge following a landslip upstream. Channel cleaned out downstream to the sharp meander. 3-4 properties are considered at risk Bridge has been refurbished, banks upstream maintained in 2010. Tree cutting was completed in 2009. Works not considered sufficient to remove flood risk. Very flashy and did not get full rainfall intensity in Nov 2009. LA comments The river is flashy and has a history of flooding.					





1.4 PFRA Data					
1.4.1 PFRA hazard mapping	PFRA mapping available in GIS layer	Yes ⊠ Yes ⊠	No 🗌		
1.4.2 Summary of Principal Receptors	Туре		FRI score (if available)		
	Receptors not considered as part of the process. FRI score not calculated in PFRA.	e PFRA			
1.7 Stage 1	Aspect Clearl		APSR	Uncertain	
Evaluation	Flood History (1.1))	(
	OPW / LA Information (1.2)			Х	
	PFRA Evaluation (1.4)			Х	
	Overall Desktop Evaluation (if any above aspect is uncertain then overall designation is uncertain))		x	
1.8 Proposed level of	Level A	Site Visit	t	Х	
assessment for Stage 2 site visits	Level B	1			





Stage 2: Site Inspection			Level A Assessment				
Date and Time of Inspe	L		Date:	27/04/11			
			-	Time	: 15:00		
Names of inspection te		Mathieu Valois	;				
(including OPW/LA star	ff if present)		James Murray				
2.1 Ground-truthing	Fluvial non-tidal ⊠	Fluv	ial tidal 🗌 🏻 C	oasta	I 🗌 Not	available 🗌	
of Hazard Mapping	PFRA hazard mapping s	eems	reasonably accu	ırate.			
2.2 Spot check	Receptor Type		ation description	n	Exists?	Overall	
ground-truthing of selected receptor		(if n	ot obvious)			Vulnerability / Risk	
vulnerability						(L / M / H)	
(also note any key	Garda Station, 4 properties and a car	upst bank	ream of town on	right	Yes	High	
receptors noted	repair garage	barn	ann				
during visit that are not identified by	wwtw	dow	downstream of town on		Yes	Medium	
PFRA)		left b	ank				
221000	No on-site comments.						
2.3 Local knowledge - on-site	No on-site comments.						
comments							
(OPW, LA and any info volunteered by							
local residents							
during visit)							
2.4 Comments on	One main bridge in the to	own c	onsisting of stone	e arch	(downstrea	ım) and box	
hydraulic	culvert (upstream) proba Area has been cleared a	bly w	idened in the rec	ent pa	st with the b	oox sections.	
constrictions (bridges, etc.) and	flashy nature of the catch						
conveyance routes	flow.	daoc	downstroam and	woll o	utcido Bally	farnon Thosa	
	There are two further bridges seem to have rea	asona	able capacity; how	vever t	there is a lo	t of	
	overgrowth on the banks of the river which increases the possibility of blockages. If these bridges were blocked it would likely only affect floodplain downstream of the village.						





2.5 SVRS Assessment Matrix													
Weightings: A - x1 - reasonable expectation of flooding B - x2 - high expectation of flooding C - x5 - risk to life													
A	pprox. Number		1 t	o 4			5 to 2	20		>20			
	Weighting		Α	В	С		Α	В	С		Α	В	С
Property (domestic)		10		Х		100				200			
Property (small retail or bus	siness)	20		х		200				400			
Property	inoso)	50				500				1000			
(large retail or bus Road or Rail Infras	structure	30				300				600			
Critical Infrastruct [hospital, school, polic station, substation, W bldg, other (specify)]	ce/fire/ambulance	50		х		500				1000			
Critical Infrastruct importance)	,	250				1000				2000			
Cultural Heritage S	Site	20				200				400			
Environmental Des	signated Site	20				200				400			
Hazardous Substa	inces Site	50				500				1000			
Total SVRS									160)			
2.6 Defence Asse	ets												
Formal and Informal Flood Defence Assets	Open Channel Watercourses Man-made river channel ☑ Flood relief channel ☐ Canal ☐ Mill leat ☐ Drainage channels / back drains ☐												
(include effective and ineffective assets to inform asset survey and potential	Bridges and Culvert crossings Single Arch bridge												
mitigation measures)	Culverted Watercourses (culvert length is greater than just a crossing) Box culvert(s) Pipe culvert(s) Arch Culvert(s) Irregular Culvert(s)							s) 🗆					
	Walls and Emb Embankment(s)		ents		Raise	ed wall(s)		\boxtimes	Retair	ning v	vall(s)	
	Control Structures – weirs, gates, dams Fixed crest weir							_					
	Storage On-line storage (natural) ☐ On-line storage (artificial) ☐ Off-line storage ☐							e 🗌					
Outfalls Flapped outfall(s) into watercourse Unflapped outfall(s) into watercourse i.e. from smaller watercourses, drains etc. into river / estuary / sea Tidal flap(s) Tidal sluice(s) i.e. from main watercourse into estuary / sea													





	Other Pumping Station
	Additional notes (if required): Banks near the bridge in Ballyfarnon have been maintained by the OPW and provide additional protection, however the ability of these banks to withstand sever flood events is questionable.
2.8 Initial Potenti	ial Mitigation Measures
Non-structural measures	Planning and Development control Sustainable Urban Drainage Systems Flood forecasting / warning Change in Operating Procedures for water level control: Public awareness campaign Individual property protection Land use management
Structural	Strategic development management for floodplain development:
measures	(integration of measures into strategic development proposals) Storage: On-line Off-line
	Storage: On-line Off-line Flood relief channel Flood relief culvert
	Increase conveyance: Bridge works Channel works Floodplain
	Flood defences: Walls 🖂 Embankments 🖂
	Localised works: Defence raising ☐ In-fill gaps ☐ Trash screen☐
	Maintenance works: Culvert / channel clearance ⊠ Asset maintenance ⊠
	Relocation of properties:
	Improve existing defences: (describe)
	Other (describe):
	The current maintenance works could be improved and the addition of engineered
	embankments and walls could reduce the risk of flooding.





Outcomes								
PFRA Designation	APSR ☐ not an APSR ⊠ IRR ☐ FRI Score: None							
Site Ground-truthing of PFRA Assessment (hazard mapping and	High Confidence (good)	Uncertain	Low Confidence (poor)	Not available				
receptors)	Х							
Site Visit Review Score	160							
Recommended Designation	APSR ⊠ not an APSR □ IRR □							
Summary Comments	The reasons for th	The reasons for the recommendation of Ballyfarnon as an APSR are;						
(if required)	 The recent flood history which indicates that receptors are at a high expectation of flooding. 							
	 OPW has carried out minor works but there is concern over their suitability during significant flood events. 							
	The flashy nature of the flooding at Ballyfarnon.							
	 While the APSR boundary has not yet been defined the on-site visual inspection indicates that the WWTP would fall within the APSR boundary and is considered as a receptor at Ballyfarnon. 							







Photo1: View from bridge where flooding has occurred in Ballyfarnon, looking downstream



Photo 2: Upstream face of bridge where flooding on the right bank has occurred in the past



Photo 3: View from bridge where flooding has occurred in Ballyfarnon, looking upstream



Photo 4: Watercourse downstream of Ballyfarnon