Question	Statutory and Administrative Roles/Responsibilities Please state <u>EACH statutory and administrative</u> role and/or responsibility that relates to, impacts on or benefits,			me, describe the activities that relate to o management of the Shannon Catchment		will this activity occur	ment occur Please describe when	External Factor(s) necessary to complete this Activity	Details of the Expected Output from this Activity. This will be the Output KPI for this activity.	Details of the Expected Outcome from this Activity.
Guide to question	responsibility that rela flooding, flood risk or Shannon catchment. Ple roles and responsib responsibilities expected they are future/expect			scribe <u>EACH</u> of the activities under the follo ding, flood risk or flood risk management <u>s</u>		description of the location or extent of	EACH activity will occur, including typical / approximate start and end dates (if not continuous) and / or duration, and the frequency of the activity	you need to allow the	Please state <u>Output</u> KPI for <u>EACH</u> Activity and how this can be measured e.g. km of channel, number of structures, conditions or restrictions on licences/permits, maintaining water levels etc.	Please describe the <u>Outcome</u> or effect of <u>EACH</u> activity in terms of the impact on flooding and/or flood risk and also how this can be measured. Please be specific, and provide quantitative information where possible, including no of properties, levels of reduction etc.
	Legal Role/Responsibility, State legislative basis	Administrative Role/Responsibility	Physical works such as channel cleaning/dredging; work to or operation of structures, weirs, bridges, removal of obstructions to flows vegetation etc.	Permits or licences to other bodies/organisations to permit and/or set conditions for their proposed activities	Assets that support <u>your</u> role/responsibility and which might impact flooding, flood risk or flood risk management.					
Electricity	Supply Board (ES	B)								
	Electricity (Supply) Act, 1927 S.19 (a)	Produce and generate electricity in the Shannon works	Operation of 4 off turbine generator sets at Ardnacrusha Generating Station for electricity production		Four Turbine Generator sets at Ardnacrusha Generating Station (85 MW)	Ardnacrusha Generating Station. See attached map and GIS data.	Ongoing	Generation Licence (CER).	Output is electricity generation. Up to 400 cubic metres per second flows in headrace at full load.	Diversion of water to Ardnacrusha Generating Station via headrace canal means that it is not flowing down the original Shannon course south of Parteen Weir. This provides flood benefit in this area.
+			LOUGH ALLEN							
	Electricity (Supply) Act, 1927 S.19 (b)	Control, manage, and maintain in good repair and condition and proper and efficient working order each and every part or section of the Shannon works.	Ongoing maintenance, consisting of lubrication of sluice gate mechanisms, regular movement of gates and clearing of debris from gate openings.	N/A	Bellantra Sluices Structure Note: This is a Category C structure, where a breach would pose negligible risk to life and cause limited damage.	Bellantra Sluice Structure, Lough Allen, Co.Leitrim.See attached map and GIS data.	Ongoing	N/A	Maintenance of 1 No. sluice structure to ensure dam safety and regulate water levels in Lough Allen in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon	Maintenance of dam safety, prevention of inundation due to dam failure and regulation of water levels in Lough Allen in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon
			Formal annual inspection, consisting of visual inspection of sluice structure, gates and operating mechanisms, test operation of gates and checking of gauges.	N/A	Bellantra Sluices Structure	Bellantra Sluice Structure, Lough Allen, Co.Leitrim.See attached map	Summer/Autumn 2016	N/A	Annual inspection carried out on 1 No. sluice structure	Maintenance of dam safety, prevention of inundation due to dam failure and regulation of water levels in Lough Allen in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon
			Ongoing maintenance - grass cutting and repairs	N/A	Lough Allen Embankment Note: This is a Category C embankment, where a breach would pose negligible risk to life and cause limited damage.		Ongoing	N/A	Maintenance of approximately 1km of embankment to maintain dam safety and regulate water levels in Lough Allen in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon	Maintenance of embankment safety, prevention of inundation due to embankment breaches and regulation of water levels in Lough Allen in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon
			Fortnightly inspections of embankment	N/A	Lough Allen Embankment	Southwest shore of Lough Allen. See attached map and GIS data.	Ongoing	N/A	Maintaining safety of approximately 1km of embankment and regulating water levels in Lough Allen in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon	Maintenance of embankment safety, prevention of inundation due to embankment breaches and regulation of water levels in Lough Allen in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon
			Formal annual inspection comprising visual inspection of the entire length of embankment from the crest and upstream toe.	N/A	Lough Allen Embankment	Southwest shore of Lough Allen. See attached map and GIS data.	Summer/Autumn 2016	N/A	Annual inspection of approximately 1km of embankment carried out	Maintenance of embankment safety, prevention of inundation due to embankment breaches and regulation of water levels in Lough Allen in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon
			Regulation of discharge at outlet from Lough Allen	N/A	Water control equipment	Bellantra Sluice Structure, Lough Allen, Co.Leitrim.See attached map and GIS data.	Ongoing as lake levels vary	N/A	Water levels in Lough Allen regulated in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon	Regulation of water levels in Lough Allen in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon. Note that lake levels are varied for the purposes of ensuring minimum navigation levels in summer and to maintain minimum flow in the downstream channel. Maximum level is set by embankment safety consideration.
			Ongoing maintenance of water control equipment	N/A	Bellantra Sluices Structure and associated Water control equipment	Bellantra Sluice Structure, Lough Allen, Co.Leitrim.See attached map and GIS data.	Ongoing	N/A	2 No. sluice gates maintained to ensure dam safety and regulate water levels in Lough Allen in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon	Water control equipment is reliable to ensure regulation of water levels in Lough Allen in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon

lectricity (Supply) Act, 927 S.19 (b)	Control, manage, and maintain in good repair and condition and proper and efficient working order each and every part or section of the Shannon works.	LOUGH REE Regulation of discharge at outlet from Lough Ree by Waterways Ireland under instruction from ESB. Note that ESB exercises no control on Lough Ree water levels during floods when all sluices gates on Athlone Weir are closed.	N/A	Athlone Weir (owned by Waterways					
	good repair and condition and proper and efficient working order each and every part or section of the Shannon works.	Lough Ree by Waterways Ireland under instruction from ESB. Note that ESB exercises no control on Lough Ree water levels during floods when all sluices gates	N/A	Athlone Weir (owned by Waterways					
		are dioseu.		Ireland)	Athlone Weir at southern end of Lough Derg.See attached map and GIS data.	Ongoing as lake levels vary		Water levels in Lough Ree in regulated in accordanc with ESB's Regulations and Guidelines for the Control of the River Shannon	ERE Regulation of water levels in Lough Ree in accordance wire ESB's Regulations and Guidelines for the Control of the River Shannon. Note that lake levels are varied for the purposes of ensuring minimum navigation levels in summer.
		Daily recording of Lough Ree water level	N/A	"The Thatch" water level gauge on eastern side of Lough Ree	"The Thatch" water level gauge on eastern side of Lough Ree.See attached map and GIS data.	Ongoing	N/A	Daily recording of water levels	Daily monitoring and recording of water levels - essential input water management decisions, particularly during floods
		LOUGH DERG							
lectricity (Supply) Act, 927 S.19 (b)	Control, manage, and maintain in good repair and condition and proper and efficient working order each and every part or section of the Shannon works.	Embankment raising in order to maintain the original design crest level to compensate for settlement.	N/A	Meelick, Whitesford and Boula Embankments	Meelick, Whitesford and Boula Embankments on river upstream of Lough Derg. See attached map and GIS data.	Summer 2016		Integrity and design crest level of approximately 20km of embankments maintained	Embankment integrity maintained during floods and agricultural land protected for river levels up to the design crest level
		Embankment maintenance and repairs - grass cutting, drain cleaning and repairs to damage following Winter 2015/16 flood	N/A	Meelick, Whitesford and Boula Embankments	Meelick, Whitesford and Boula Embankments on river upstream of Lough Derg. See attached map and GIS data.	April - September 2016		Integrity and design crest level of approximately 20km of embankments maintained	Embankment integrity maintained during floods and agricultural land protected for river levels up to the desig crest level
		Fortnightly inspections of embankment	N/A	Meelick, Whitesford and Boula Embankments	Meelick, Whitesford and Boula Embankments on river upstream of Lough Derg. See attached map and GIS data.	Ongoing		Integrity of approximately 20km of embankments maintained	Embankment integrity maintained during floods and agricultural land protected for river levels up to the desig crest level
		Seepage detection and repair as required. There is a history of seepage developing in the material under the embankments. These seepges are repaired by grouting as required.	N/A	Meelick, Whitesford and Boula Embankments	Meelick, Whitesford and Boula Embankments on river upstream of Lough Derg. See attached map and GIS data.	Ongoing	Possible requirement for National Parks and Wildlife Service licence for certain works in SACs	Integrity of approximately 20km of embankments maintained	Embankment integrity maintained during floods and agricultural land protected for river levels up to the desig crest level
		Maintenance of land drainage pumps and pumping stations and ongoing operation at three locations.	N/A	Land drainage pumps and pumping stations at Meelick, Whitesford and Boula	Meelick, Whitesford and Boula Embankments on river upstream of Lough Derg.See attached map and GIS data.	Ongoing	N/A	Reliable operation of 3 No. Pumping stations	Agricultural land protected for river levels up to the designments of embankments
		Daily recording of Lough Derg water levels and rainfall	N/A	Portumna, Ballyvalley and Pier Head (Killlaloe) Gauges	Portumna, Ballyvalley and Pier Head (Killaloe). See attached map and GIS data.	Ongoing	N/A	Daily recording of water levels and rainfall	Daily monitoring and recording of hydrometric data - essential input water management decisions, particularly during floods
		ARDNACRUSHA / PARTEEN WEIR							

Electricity (Supply) Act, 1927 S.19 (b)	Control, manage, and maintain in good repair and condition and proper and efficient working order each and every part or section of the Shannon works.	Ongoing maintenance - grass cutting, drain cleaning and repairs		Fort Henry (3.1km), Ardclooney (1.2km), Ardnacrusha Headrace Left (11.6km) and Ardnacrusha Headrace Right (11.6km) Embankments (Category A). Notes: (a) Category A dams and embankments are those where a breach could endanger lives in a downstream community. (b) A breach or significant damage to either Headrace Embankment would require the Headrace to be closed. The result of this would be that during a flood no water could be diverted into the Headrace and the entire flood flow would have to pass down the Shannon River channel, increasing the flood risk to areas downstream of Parteen Weir.	Ardclooney embankments upstream of Parteen Weir. Ardnacrusha embankments on	Ongoing		Approximately 27.5km of embankments maintained to ensure dam safety and regulate water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon	Maintenance of embankment safety, prevention of inundation due to embankment breaches, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Daily inspections and seepage measurements for Category A embankments	N/A	Fort Henry (3.1km), Ardclooney (1.2km), Ardnacrusha Headrace Left (11.6km) and Ardnacrusha Headrace Right (11.6km) Embankments (Category A)	Fort Henry and Ardclooney embankments upstream of Parteen Weir. Ardnacrusha embankments on headrace canal. See attached map and GIS data.	Ongoing	N/A	Daily inspections of approximately 27.5km of embankments and seepage measurements carried out and daily seepage measurements entered into Dam Monitor database	Maintenance of embankment safety, prevention of inundation due to embankment breaches, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Monthly piezometer measurements for Category A embankments. These measurements are taken to monitor the phreatic surface in the embankments, which influences the stability of the embankments. Alert levels are set to warn of potential stability issues.	N/A	Fort Henry (3.1km), Ardclooney (1.2km), Ardnacrusha Headrace Left (11.6km) and Ardnacrusha Headrace Right (11.6km) Embankments (Category A)	Fort Henry and Ardclooney embankments upstream of Parteen Weir. Ardnacrusha embankments on headrace canal. See attached map and GIS data.	Ongoing	N/A	Monthly piezometer measurements carried out and entered into Dam Monitor database	Maintenance of embankment safety, prevention of inundation due to embankment breaches, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Formal annual inspection	N/A	Fort Henry (3.1km), Ardclooney (1.2km), Ardnacrusha Headrace Left (11.6km) and Ardnacrusha Headrace Right (11.6km) Embankments (Category A)	Fort Henry and Ardclooney emmbankments upstream of Parteen Weir. Ardnacrusha embankments on headrace canal. See attached map and GIS data.	Summer/Autumn 2016		Annual inspections of 4 No. embankments carried out, i.e. Fort Henry, Ardclooney and Headrace Left and Right Embankments	Maintenance of embankment safety, prevention of inundation due to embankment breaches, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Annual cleaning of Kilmastulla River (adjacent to Fort Henry Embankment) and Black River (adjacent to Ardclooney Embankment)	N/A	Fort Henry (3.1km), Ardclooney (1.2km) Embankments (Category A)	Fort Henry and Ardclooney embankments upstream of Parteen Weir. See attached map and GIS data.	Summer 2016	N/A	3km of river channels cleaned adjacent to embankments	Maintains river channel conveyance
		Leak detection and repair as required	N/A	Fort Henry (3.1km), Ardclooney (1.2km), Ardnacrusha Headrace Left (11.6km) and Ardnacrusha Headrace Right (11.6km) Embankments (Category A)	Ardclooney emmbankments	Ongoing	N/A	Embankment safety maintained	Maintenance of embankment safety, prevention of inundation due to embankment breaches, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Continuous monitoring of water levels and rates of drawdown to ensure embankment stability. Levels either above maximum allowed or below minimum allowed can have adverse effects on embankment stability.	N/A	Fort Henry (3.1km), Ardclooney (1.2km), Ardnacrusha Headrace Left (11.6km) and Ardnacrusha Headrace Right (11.6km) Embankments (Category A)	Fort Henry and Ardclooney embankments upstream of Parteen Weir. Ardnacrusha embankments on headrace canal. See attached map and GIS data.	Ongoing	N/A	Embankment safety maintained	Maintenance of embankment safety, prevention of inundation due to embankment breaches, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace

П	I	Ongoing maintenance - grass cutting and	IN/A	Kilmastulla Embankment	Kilmastulla	Ongoing	N/A	Approximately 2.5km of embankment maintained	Embankment maintains its integrity during floods and
		drain cleaning	N/A	Kiiiiastulia Eliibalikiilelit	embankment. See attached map and GIS data.	Ongoing	IN/A	Approximately 2.5km of embankment maintained	protects agricultural land for river levels up to the design crest level
		Daily inspections of embankment	N/A	Kilmastulla Embankment	Kilmastulla embankment. See attached map and GIS data.	Ongoing	N/A	Daily inspections of approximately 2.5km of embankment carried out	Embankments maintain their integrity during floods and protect agricultural land for river levels up to the design crest level
		Maintenance of land drainage pumps and pumping stations and ongoing operation at three locations.	N/A	Kilmastulla land drainage pumps and pumping stations (3No.)	See attached map and GIS data.	Ongoing	N/A	Reliable operation of 3 No. Pumping stations	Protection of agricultural land for river levels up to the design crest level of embankment
		Inspection, cleaning and maintenance of 3 No. siphons under Ardnacrusha Headrace (Newtown, Errinagh and O'Brien's Bridge)	N/A	Ardnacrusha Headrace Left and Right Embankments (Category A)	Ardnacrusha headrace. See attached map and GIS data.	Summer 2016	N/A	3 No. siphons inspected, cleaned and maintained	Ensures integrity of siphons and channel conveyancy, facilitates natural stream drainage, reduces risk of localised flooding and protects Headrace Embankments
		Monitoring of levels and alarms, upstream of culverts and siphons, on seven rivers and streams draining under Ardnacrusha Headrace	N/A	Ardnacrusha Headrace Left and Right Embankments (Category A)	Ardnacrusha headrace. See attached map and GIS data.	Ongoing	N/A	Continuous monitoring of levels and alarms	Facilitates natural stream drainage, reduces risk of localised flooding and protects Headrace Embankments
		Upgrading of level devices and alarms upstream of culverts and siphons, on seven rivers and streams draining under Ardnacrusha Headrace	N/A	Ardnacrusha Headrace Left and Right Embankments (Category A)	Ardnacrusha headrace. See attached map and GIS data.	Spring/Summer 2016	N/A	Level and alarm devices upgraded at the inlets of 7 No. culverts and siphons	Facilitates natural stream drainage, reduces risk of localised flooding and protects Headrace Embankments
		Cleaning of screens at inlets to culverts and siphons, on rivers and streams draining under Ardnacrusha Headrace during floods	N/A	Ardnacrusha Headrace Left and Right Embankments (Category A)	Ardnacrusha headrace.See attached map and GIS data.	Ongoing - as required	N/A	Screens kept clean, particularly during floods	Facilitates natural stream drainage, reduces risk of localised flooding and protects Headrace Embankments
		Annual inspection of Headrace Bridges	N/A	Ardnacrusha Headrace Left and Right Embankments (Category A)	Ardnacrusha headrace. See attached map and GIS data.	Ongoing	N/A	Annual inspections of O'Briens Bridge, Clonlara Bridge and Blackwater Bridge are carried out	Bridges are public road bridges and also facilitate works access to ESB dams and embankments
		Annual cleaning of Kilmastulla River adjacent to Fort Henry Embankment (2.5km) and Black River and open drain (1km) adjacent to Ardclooney Embankment.	N/A	Fort Henry and Ardclooney Embankments (Category A)	Fort Henry and Ardclooney embankments upstream of Parteen Weir. See attached map and GIS data.	Summer 2016	N/A	Approximately 3.5km of channels cleaned	Facilitates channel conveyance, reduces risk of localised flooding and protects Headrace Embankments
		Daily inspections of dams and checking of water level (upstream and downstream of dams) and rainfall gauges and instruments	N/A	Parteen Weir (Category A) and Ardnacrusha Dam (Category A)	Parteen Weir and Ardnacrusha Dam. See attached map and GIS data.	Ongoing	N/A	Daily inspections of 2 No. dams and associated gauges are carried out	Maintenance of dam safety, prevention of inundation due to dam failure, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Monitoring of uplift, movements and seepages	N/A	Parteen Weir (Category A) and Ardnacrusha Dam (Category A)	Parteen Weir and Ardnacrusha Dam. See attached map and GIS data.	Ongoing	N/A	Measurements are taken at required frequencies and entered into Dam Monitor database	Maintenance of dam safety, prevention of inundation due to dam failure, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Maintenance of water control gates and equipment	N/A	Parteen Weir (Category A) and Ardnacrusha Dam (Category A)	Parteen Weir and Ardnacrusha Dam. See attached map and GIS data.	April - September 2016	N/A	Scheduled maintenance is carried out on 7 No. spillway gates, 7 No. intake gates and 4 No. navigation gates	Water control equipment is reliable to ensure regulation of water levels in Lough Derg and Parteen Basin in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Formal annual dam inspection	N/A	Parteen Weir (Category A) and Ardnacrusha Dam (Category A)	Parteen Weir and Ardnacrusha Dam. See attached map and GIS data.	Summer/Autumn 2016	N/A	Annual inspections are carried out on 2 No. dams	Maintenance of dam safety, prevention of inundation due to dam failure, regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace

	Monthly tasts of hondrass intoka gatas	NI/A	Partoon Wair (Catagon, A)	Dartoon Wair Coo	Ongoing	NI/A	Monthly tosts are sarried out on C No. snilly av gate	Mater central equipment is reliable to ensure regulation
	Monthly tests of headrace intake gates and spillway gate operations	IN/A	rarteen weir (Category A)	Parteen Weir.See attached map and GIS data.	lungoing	1 '	l	s Water control equipment is reliable to ensure regulation of water levels in Lough Derg and Parteen Basin in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of wate from the River Shannon through Ardnacrusha Headrace
	Regulation of discharge at outlet from Lough Derg	N/A	Parteen Weir (Category A)	1			Water levels in Lough Derg regulated in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon	Regulation of water levels in Lough Derg in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon
	Annual headrace intake gates and spillway gates tests and operator training by Supervising Engineer	N/A	Parteen Weir (Category A)	Parteen Weir. See attached map and GIS data.	December 2016	1 '	,	Water control equipment is reliable to ensure regulation of water levels in Lough Derg and Parteen Basin in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of wate from the River Shannon through Ardnacrusha Headrace
	Six monthly test operation of Ardnacrusha spillway gate	N/A	Ardnacrusha Dam (Category A)	Ardnacrusha Dam. See attached map and GIS data.	Ongoing		1	Water control equipment is reliable to ensure regulation of water levels in Lough Derg and Parteen Basin in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of wate from the River Shannon through Ardnacrusha Headrace
	Concrete repairs	N/A	Ardnacrusha Dam (Category A)	Ardnacrusha Dam. See attached map and GIS data.	Summer 2016	N/A	Concrete repairs completed	Provides for long-term availability of water control and generating equipment to ensure regulation of water level in Lough Derg and Parteen Basin in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
	Annual overhauls of four turbine generator units		Unavailability of the turbine/generator unitsduring a flood would result in no water being diverted into the Headrace and the entire flood flow would have to pass down the Shannon River channel, increasing the flood risk to areas	Generating Station.	Summer 2016	N/A	Annual overhauls are carried out on 4 No. turbine generator units	Generation equipment is reliable to assist regulation of water levels in Lough Derg and Parteen Basin in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon, including ensuring that water can be diverted from the River Shannon through Ardnacrusha Headrace
	Repair and reslating of Ardnacrusha Generating Station Roof (Phase 1)	N/A	Ardnacrusha Generating Station	Ardnacrusha Generating Station. See attached map and GIS data.	June-October 2016	Declaration required		Ensures availability of water control and generating equipment to ensure regulation of water levels in Lough Derg and Parteen Basin in accoradnce with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
	Inspection of Tailrace channel	N/A	Tailrace Channel (2.2km)	Ardnacrusha tailrace.See attached map and GIS data.	Summer 2016	N/A	Inspection of tailrace channel carried out	Ensures that any issues relating to the Tailrace are identified at an early stage and remedial measures implemented if necessary in order to assist regulation of water levels in Lough Derg and Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
	Annual inspection of Tailrace Bridge	N/A	Tailrace Channel (2.2km)	Ardnacrusha tailrace. See attached map and GIS data.	Summer 2016	N/A	Annual inspections of Parteen Bridge is carried out	Bridge is a public road bridge and also facilitates works access to ESB infrastructure
	GENERAL							
Control, manage, and maintain in good repair and condition and proper and efficient working order each and every part or		N/A	Ardnacrusha Generating Station	N/A	Ongoing		with the Regulations and Guidelines for the Control	Maintenance of dam and embankment safety, preventior of inundation due to dam failure or embankment breaches, regulation of water levels in Loughs Allen, Ree and Derg, as well as in Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the
	good repair and condition and	Regulation of discharge at outlet from Lough Derg Annual headrace intake gates and spillway gates tests and operator training by Supervising Engineer Six monthly test operation of Ardnacrusha spillway gate Concrete repairs Annual overhauls of four turbine generator units Repair and reslating of Ardnacrusha Generating Station Roof (Phase 1) Inspection of Tailrace channel Annual inspection of Tailrace Bridge GENERAL Control, manage, and maintain in good repair and condition and generation of the requirements of the Regulations and Guidelines for the	and spillway gate operations Regulation of discharge at outlet from Lough Derg Annual headrace intake gates and spillway gates tests and operator training by Supervising Engineer Six monthly test operation of Ardnacrusha spillway gate Concrete repairs N/A Annual overhauls of four turbine generator units Repair and reslating of Ardnacrusha Generating Station Roof (Phase 1) Inspection of Tailrace channel N/A Annual inspection of Tailrace Bridge N/A Control, manage, and maintain in Implementation of the requirements of N/A good repair and condition and Implementation of the requirements of N/A good repair and condition and Implementation of the requirements of N/A good repair and condition and Implementation and Guidelines for the	and spillway gate operations Regulation of discharge at outlet from Lugh Derg Annual headrace intake gates and spillway gates the saw of operation states and spillway gates the saw of operation states and spillway gates the saw of operation states and spillway gate. N/A Annual headrace intake gates and spillway gates and spillway gates the saw of operation of Androacrusha spillway gate. Sax monthly test operation of Androacrusha Spillway gate. N/A Androacrusha Cenerating Station MAA Androacrusha Generating Station Note: Unavailability of the turbining-generator units for turbine generator units. Annual overhauds of four turbine generator units for the turbine generator units for turbine generator units for turbine generator units for turbine generator genera	and spillway gate operations Statched map and GS data.	teguation or discharge at outset from N/A partners Werl (Category A) Partners Werl See Category	and splitnery gare operations Application of discharge at outlet from NA Integration of discharge at outlet from NA Integration of discharge at outlet from NA Annual Bredit set on take gates and NA Jalinova gates tools and gareston of authors Annual sequence of gates of the sequence of the seque	Table of spilesy pine operations The parameter of distings at autorit from NVA. Prince Worl Category A1 Insurable of distings at autorit from NVA. Prince Worl Category A1 Insurable of distings at autority pine and distings at autority pine at autority pine at autority pine and distings at autority pine at autori

				State Agency Co-ordination V	vorking Group - w	ork Programme 20)10		
		Daily management of water levels in Loughs Allen, Ree and Derg	N/A	Ardnacrusha Generating Station	N/A	Ongoing	N/A		Ensures regulation of water levels in Loughs Allen, Ree and Derg, as well as in Parteen Basin in accordance with ESB's Regulations and Guidelines for the Control of the River Shannon, including diversion of water from the River Shannon through Ardnacrusha Headrace
		Twice weekly forecasts of water levels in Loughs Allen, Ree and Derg	N/A	Ardnacrusha Generating Station	N/A	Ongoing	N/A	Lake level forecasts prepared and issued to stakeholders on Mondays and Thursdays	Lake level forecasts assist stakeholders in preparing for potential adverse conditions during floods or low levels
		FISHERIES							
S 8. Shannon Fisheries Act, 1935	In addition, but subject and without prejudice to, the primary function of maintaining, working, and developing the Shannon hydro electric works ESB has a duty of managing, conducting, and preserving the Shannon fisheries	Selective bankside clearance and instream works			Nenagh River (area downstream of Ballyclogh Weir)	Selective bankside clearance will be outside of the bird nesting season (1st March to the 31st September) and instream works will be for the duration of Mid June to the end of September.			Improved instream conditions for migrating fish and bank side access for anglers.
		Selective bankside clearance and instream works			Big Brosna River (the area upstream of Roscrea town) - near the IFI operated Fish Farm.	Selective bankside clearance will be outside of the bird nesting season (1st March to the 31st September). There will be no instream works.	A 'screening report' has been completed. Inland Fisheries ireland (IFI) have been notified as have local landowners. The work is being carried out according to an IFI Habitat Development Plan.		Improved instream conditions for migrating fish and bank side access for anglers.
		Selective bankside clearance and instream works			Mountshannon River (the area upstream the local public park).	instream works will be for the duration of Mid June to the end of	work is being carried		Improved instream conditions for migrating fish and bank side access for anglers.
					Cappagh / Duniry Rivers (The Tomany River)	instream works will be for the duration of Mid June to the end of			Improved instream conditions for migrating fish and bank side access for anglers.

	T	Selective bankside clearance and	The Ballyfinboy River. Selec	ective bankside A 'screening report'	Improved instream conditions for migrating fish and bank
		instream works	The area immediately clear		side access for anglers.
		instituti works		side of the bird Inland Fisheries	side decess for difficers.
				ting season (1st ireland (IFI) have been	
				rch to the 31st notified as have the	
				tember) and local angling club (The	
				ream works will be Ormond Angling	
				the duration of Mid-Club), and local	
				e to the end of landowners. The work	
			Sept	tember. is being carried out	
				according to an IFI	
				Habitat Development	
				Plan.	
		Selective bankside clearance and	The Little Brosna Selec	ective bankside A 'screening report'	Improved instream conditions for migrating fish and bank
		instream works		rance will be has been completed.	side access for anglers.
		IIISCIEdIII WOLKS			side access for anglers.
				side of the bird Inland Fisheries	
				ting season (1st ireland (IFI) have been	
				rch to the 31st notified as have the	
1				tember) and local angling club (The	
				ream works will be Birr and District	
				the duration of Mid-Angling Club), and	
1			June	e to the end of local landowners.	
			Sept	tember.	
		Selective bankside clearance and	The Lecarrow River. Selec	ectiver bankside A 'screening report'	Improved instream conditions for migrating fish and bank
		instream works		rance will be has been completed.	side access for anglers.
		Instituti works		side of the bird Inland Fisheries	Side decess for differens.
				ting season (1st ireland (IFI) have been	
				rch to the 31st notified as have the	
				tember) and local angling club (The	
				ream works will be Lough Ree Angling	
				the duration of Mid Association), and local	
				e to the end of landowners.	
			Sept	tember.	
		Selective bankside clearance and	The Cornmissogue Selec	ective bankside	Improved instream conditions for migrating fish and bank
		instream works		rance will be	side access for anglers.
		mstream works		side of the bird	side access for anglers.
				ting season (1st	
				rch to the 31st	
				tember) and	
				ream works will be	
				the duration of Mid-	
				e to the end of	
			Sept	tember.	
		Selective bankside clearance and	Scarriff River (area Selec	ective bankside A 'screening report'	Improved instream conditions for migrating fish and bank
		instream works		rance will be has been completed.	side access for anglers.
1		IIISLICAIII WUIKS			Side access for differens.
1				side of the bird Inland Fisheries	
1				ting season (1st ireland (IFI) have been	
1				rch to the 31st notified as have local	
	i l			tember). There will landowners. The work	
	I	1		no instream works. is being carried out	
			i i i i i i i i i i i i i i i i i i i	Laccording to an IEI	
				according to an IFI	
				Habitat Development	
				Habitat Development Plan.	
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				Habitat Development	
				Habitat Development	

	T	_	Ta	Т	T	Ta	I	I	T	I
			Selective bankside clearance and			Castleconnell:		An 'Appropriate		Improved instream conditions for migrating fish and bank
			instream works				clearance and removal of			side access for anglers.
							trees which have fallen into the river during	been completed. Inland Fisheries ireland (IFI)		
							recent storms will be	have been notified as		
							outside of the bird	have the local Angling		
							nesting season (1st	Club/Development		
							March to the 30st	Association (The		
							September) and instream			
							works will be for the	Association), and local		
							duration of Mid-May to	landowners. The work is		
							the end of September.	being carried out		
							The instream works will	according to a Habitat		
							take place on Beat 3	Development Plan. The		
							(adjacent to the	National park and		
							footbridge and the Castle	wildlife service (NPWS)		
							Oaks Hotel). It is	have also been informed		
							proposed to construct a	of this work		
							wall at low water height			
							for a distance of			
							approximately 250			
							metres, parrell to the			
							river bank and provide a			
						[series of pool/riffle/glide			
							formations, to aid			
							salmon spawning and			
							juvenile fish survival.			
Bord na	Móna (BNM)									
	None	None	Inspection of 3 Rail Crossing bridges to	In channel inspection procedure and	Internal Engineering resources.	Locations of the 3	Plan to complete	In channel inspection	Number of structures inspected	Outcome will be an inspection report for each bridge
			assess their condition after the		Specialist Engineering Test Consultants.		inspections during Q2			which will identify any remedial actions / repairs which are
			December 2015/January 2016 flooding	with Waterways Ireland	Specialist Engineering rest consultants.	supplied on a GIS file.		submitted and agreed		deemed to be required.
			1	with waterways heland		supplied off a dis file.		with Waterways		deemed to be required.
			events							
							availability of specialist	Ireland		
							consultants to			
				1						
							complete in channel			
							works.			
							1			
	None	None	Implementation of any remedial actions	Any in channel remedial works will be	Internal Engineering resources.	Locations of the 3	1	Any in channel	Percentage of remedial actions / repairs completed.	Remedial actions completed.
	None	None	Implementation of any remedial actions / repairs on Rail Crossing bridges which	Any in channel remedial works will be submitted and agreed with Waterways	Internal Engineering resources. Consulting Engineers.	Locations of the 3 bridge sites will be	works.	Any in channel remedial works	Percentage of remedial actions / repairs completed.	Remedial actions completed. Repair works completed.
	None	None	1 -	-			works. Any remedial actions /	remedial works	Percentage of remedial actions / repairs completed.	
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways	Consulting Engineers.	bridge sites will be	works. Any remedial actions / repairs or further	remedial works required will be		I '
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways	Consulting Engineers.	bridge sites will be	works. Any remedial actions / repairs or further investigations deemed necessary will be	remedial works required will be submitted and agreed		1
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways	Consulting Engineers.	bridge sites will be	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in	remedial works required will be submitted and agreed with Waterways		1
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways	Consulting Engineers.	bridge sites will be	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with	remedial works required will be submitted and agreed		I '
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways	Consulting Engineers.	bridge sites will be	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and	remedial works required will be submitted and agreed with Waterways		I '
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways	Consulting Engineers.	bridge sites will be	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of	remedial works required will be submitted and agreed with Waterways		I ·
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways	Consulting Engineers.	bridge sites will be	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and	remedial works required will be submitted and agreed with Waterways		I ·
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways	Consulting Engineers.	bridge sites will be	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of	remedial works required will be submitted and agreed with Waterways		I ·
	None	None	/ repairs on Rail Crossing bridges which	submitted and agreed with Waterways Ireland	Consulting Engineers. Civil works contractors.	bridge sites will be	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports.	remedial works required will be submitted and agreed with Waterways Ireland		I '
			/ repairs on Rail Crossing bridges which have been identified by inspections.	submitted and agreed with Waterways Ireland	Consulting Engineers. Civil works contractors.	bridge sites will be supplied on a GIS file.	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports.	remedial works required will be submitted and agreed with Waterways Ireland		Repair works completed. Outcome will be an inspection report which will identify
			/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition	submitted and agreed with Waterways Ireland	Consulting Engineers. Civil works contractors. Internal engineering and land survey	bridge sites will be supplied on a GIS file. The locations of the flood embankments	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports.	remedial works required will be submitted and agreed with Waterways Ireland		Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are
			/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016	submitted and agreed with Waterways Ireland	Consulting Engineers. Civil works contractors. Internal engineering and land survey	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016	remedial works required will be submitted and agreed with Waterways Ireland		Repair works completed. Outcome will be an inspection report which will identify
			/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition	submitted and agreed with Waterways Ireland	Consulting Engineers. Civil works contractors. Internal engineering and land survey	bridge sites will be supplied on a GIS file. The locations of the flood embankments	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood	remedial works required will be submitted and agreed with Waterways Ireland		Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are
			/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016	submitted and agreed with Waterways Ireland	Consulting Engineers. Civil works contractors. Internal engineering and land survey	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground	remedial works required will be submitted and agreed with Waterways Ireland		Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are
			/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016	submitted and agreed with Waterways Ireland	Consulting Engineers. Civil works contractors. Internal engineering and land survey	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood	remedial works required will be submitted and agreed with Waterways Ireland		Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events.	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file.	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions.	remedial works required will be submitted and agreed with Waterways Ireland	Kilometer of embankment inspected.	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required.
			/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events.	submitted and agreed with Waterways Ireland	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions.	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected.	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant on weather and	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant on weather and ground conditions).	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant on weather and ground conditions). Works will commence	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant on weather and ground conditions). Works will commence in 2016 and may	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant on weather and ground conditions). Works will commence	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant on weather and ground conditions). Works will commence in 2016 and may	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
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	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant on weather and ground conditions). Works will commence in 2016 and may	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.
Environn	None	None	/ repairs on Rail Crossing bridges which have been identified by inspections. Inspection of peatland flood protection embankments to assess their condition after the December 2015/January 2016 flooding events. Implementation of any investigations, remedial actions or repairs on flood protection embankments which are	submitted and agreed with Waterways Ireland None required	Consulting Engineers. Civil works contractors. Internal engineering and land survey resources. Internal engineering and land survey resources. BnM machines and operators.	bridge sites will be supplied on a GIS file. The locations of the flood embankments will be supplied on a GIS file. The locations of the flood embankments will be supplied on a	works. Any remedial actions / repairs or further investigations deemed necessary will be completed in accordance with requirements and timeframes of inspection reports. Inspections are scheduled to be carried out in Q2 2016 dependant on flood levels and ground conditions. A prioritised action plan will be developed following the completion of the inspections. Works will typically be completed between June to October (dependant on weather and ground conditions). Works will commence in 2016 and may	remedial works required will be submitted and agreed with Waterways Ireland None	Kilometer of embankment inspected. Percentage of investigations, remedial actions and	Outcome will be an inspection report which will identify any investigations, remedial actions or repairs which are deemed to be required. Investigations completed. Remedial actions completed.

					State Agency Co-ordination W	• .				
	Preparation and implementation of a national hydrometric monitoring programme (section 64 of EPA Act 1992)	Implemented through the national hydrometric monitoring group, jointly chaired by the EPA and the OPW.	Minor physical works required for upkeep and maintenance of monitoring locations (which are owned and operated by local authorities)	n/a	The main assets are the monitoring stations themselves and the associated telemetry equipment and IT services for analysis and disemmination of information. The EPA plan to have all of these stations connected through telemetry by the end of Q2 2016.	Please refer to Hydronet at www.hydronet.epa.ie which includes a full register of all hydrometric stations in the Shannon RBD and GIS interactive maps for the stations		The stations are owned by local authorities so all planning, access, upkeep and maintenance issues are managed by the relevant local authority. With the establishment of Irish Water, there is some ambiquity as to how these sites will be owned and managed in the future.	Up to date information on water flows and levels and their accessibility through Hydronet.epa.ie.	Up to date information on water flows and levels and their accessibility thorough Hydronet.epa.ie.
	(European Union (Water Policy) Regulations 2014)	Implemented through the three tier governance arrangements introduced by the 2014 Water Policy Regulations with the EPA leading tier 2 (technical coordination). DECLG is leading Tier 1 (national coordination aned oversight) and local government is leading Tier 3 (local implementation and public engagement). The OPW is involved at all levels of WFD implementation and there is strong coordination between the EPA and OPW to provide for a streamlined and joined-up approaches to the implementation of the WFD and the Floods Directive.	A programme of measures for the WFD for the period 2018-2021 is currently in preparation and some of these measures may require physical works to be either undertaken, restricted or controlled. In compiling a programme of measures a key consideration will be the synergies and interplay between flood management, water quality management aned habitat management. The WFD also has provision for extensions, less stringent objectives and exemptions, which may apply in certain situations where flood prevention or control measures are required in the broader public interest which have a negative impact on the achievement of WFD objectives.	Many bodies and agencies will be involved in the implementation of agreed measures under the WFD. This will become clearer as the programme of measures is developed and finalised. The programme of measures currently under development will be for the period 2018-2021 and will be available for consultation in the first half of 2017.	The main assets are IT and GIS systems under development to support the implementation of the WFD and the sharing and disemmination of relevant information through the EPA's Environmental Data Exchange Network (EDEN) shared service and through the web. These will include detailed information on the sub-catchments within the Shannon region which will hlep inform decision making about flood management as well as water quality management.	The WFD application (still under development by the EPA) is available to public bodies through the EDEN shared service. A public facing WFD web-site is currently under development by the EPA for release at the end of Q2 2016 which will make much of this information openly available to the public.		n/a	1. Characterisation information for each subcatchment in the Shannon river basin (to be completed by the end of 2016); 2. Draft National River Basin Management Plan and associated Programme of Measures for the period 2018-2021 (to be published for public consultation by end of 2016 and which will include specific proposed measures for the shannon catchments)	A key outcome from the draft river basin management plan and associated programme of measures will be clarity about the interaction between flood prevention and management and water quality protection and management. It will include specific proposals, where relevant, for extensions, less stringent objectives or exemptions that might apply where required to facilitate flood mitigation measures that have a negative impact on WFD objectives.
	to the newly formed climate change advisory council and the coordination of national	Implemented through the newly established climate change sectretariat in the EPA (suppoting the work of the climate change advisory council) and through the EPA's national research programme.		n/a	Research outputs from projects that address the linkages between climate change and flood risk.	n/a	n/a	n/a	From the EPA Research Programme: Identification of priority research topics and their inclusion in annual research calls; Completion of relevant research projects and publication and disemmination of reports and findings. 2. Through the work of the Climate Change Advisory Council: advice to Government on national plans for mitigation and adaptation.	Research outputs will lead to greater understanding and knowledge of the linkages between climate change and flood risk and what can be done to alleviate such risks. 2. The national plans for mitigation and adaptation will provide national road maps for the transition to a low carbon future. The national adaptiation plan will need to include plans for how Ireland needs to adapt to greater flooding risks associated with climate change.
Inland F	charias Iraland /	IEI)								
1959 Fisheries	fish passes in weirs	Enforce compliance with subsection to ensure the provision of fish passage;	Provision of fish passage at barrier on the Bunowen River at Ahascragh, County Galway. Options report to be provided - could be removal, partial removal or fish pass. To go for public consultation.	No licence or permit applicable.	none	At mill headrace on main Bunowen River, Ahascragh Village	and/or in to Summer 2017	Section 59 authorisation; section 47 Arterial Drainage Act; Planning Act 2000 Article 5 A (planning exemption for fish pass).	reduction in water levels and improved spawning habitat above barrier (depending on option	Any works to fish improvement will in theory benefit flood levels by lowering water levels above the impoundment. If full removal, it will lower levels to near natural conditions and improve salmonid spawning habitat above. It's impact will be positive on flood levels by reducing levels above the obstacle.
1959 Fisheries Consolidation Act:	repair	Enforce compliance with subsection to ensure the provision of fish passage; advise minister and seek ministerial order if necessary; liaise with weir owner/s and advise on approach; approve plans and oversee repairs/works	None planned at the moment	No licence or permit applicable.	none	n/a	n/a	n/a	n/a	n/a

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Consolidation	Section 117 - removal of defynct weirs/provision of fish pass	Enforce compliance with subsection to ensure the provision of fish passage; advise minister and seek ministerial order if necessary; liaise with weir owner/s and advise on approach; approve plans and oversee repairs/works	the Bunowen River at Ahascragh, County Galway. Options report to be provided could be removal, partial removal or fish pass. To go for public consultation. 2) Carry out a barriers assessment survey for the entire river shannon (survey and mapping excercise). 3) Partial removal of barrier on the Greenhills Tributary (Kilmastulla Catchment, Tipperary).		none	Ahascragh Village 2)	and/or in to Summer	47 Arterial Drainage	spawning habitat above barrier (depending on option prefered). 2) Assesses impacts posed by barriers on the Shannon to fish passage. 3) Opens up 2-3km of salmonid spawning habitat and lamprey and eel habitat on the Greenhills Trib.	1)Any works on fish improvement at barriers will in theory benefit flood levels by lowering water levels above the impoundment. If full removal, it will lower levels to near natural conditions and improve salmonid spawning habitat above. It's impact will be positive on flood levels by reducing levels above the obstacle. 2) Provide an inventory of barriers to fish migration for the Shannon. These barriers also impact conveyance and any priority works to address these barriers (in consultation with statutory authorities) will in theory benefit flood conveyance also, as these barriers hold water at a higher height above the impoundment. 3) Removal of the barrier will improve conveyance in the Greenhills Tributary and lower water height levels above the impoundment. This will benefit conveyance and flooding in the catchment area immediately above the impoundment.
Consolidation 1 Act:	Section 118 - fish passage through natural barriers (not used as contrary to objectives of WFD)	not used as contrary to objectives of WFD)	None planned at the moment	No licence or permit applicable.	none	n/a	n/a	n/a	n/a	n/a
Consolidation	Section 131 - obstruction of fish during annual closed season	Provide consultation/advice and ensure compliance to other parties regarding protection of fish, their spawn, their spawning beds and habitat	Any physical instream works planned by any agency, landowner will fall under this heading.	No permiting or licencing system is applicable during open season. Closed season requires Ministerial derrogation	none	This can occur in any part of the catchment	1st March - 30th September is open season generally and closed season is opposite this	none	No of infrastructural projects/civil works assessed	There should be no impact on flooding - apart from the timing of works
Consolidation Act:	section 138 - Must provide free passage of young salmonids during annual closed season	Enforce compliance with subsection to ensure the provision of fish passage; advise minister and seek ministerial order if necessary; liaise with weir owner/s and advise on approach; approve plans and oversee repairs/works	Provision of fish passage at barrier on the Bunowen River at Ahascragh, County Galway. Options report to be provided could be removal, partial removal or fish pass. To go for public consultation.	Section 59 Authorisation, 2010 Inland Fisheries Act	none	At mill headrace on main Bunowen River, Ahascragh Village E177521 N238946	June - Sept 2016 and/or in to Summer 2017	Section 59 authorisation; section 47 Arterial Drainage Act; Planning Act 2000 Article 5 A (planning exemption for fish pass).	reduction in water levels and improved spawning habitat above barrier (depending on option	Any works to fish improvement will in theory benefit flood levels by lowering water levels above the impoundment. I' full removal, it will lower levels to near natural conditions and improve salmonid spawning habitat above. It's impact will be positive on flood levels by reducing levels above the obstacle.
Consolidation	Section 178 -several fisheries - private fisheries	Private fisheries	Any physical instream works planned by any agency, landowner will fall under this heading.	No permiting or licencing system is applicable during open season. Closed season requires Ministerial derrogation	none	This can occur in any part of the catchment	1	none	7 7	There should be no impact on flooding - apart from the timing of works
	Section 171 - protection of waters from pollution	·	Any physical instream works has the potential to cause increased suspended solids/organic material which could be classed as deleterious matter	No permiting or licencing system - those that are licenced are done under Local Authority or EPA IPC	none	This can occur in any part of the catchment	This can occur anytime	none	No of samples taken	There should be no impact on flooding
Consolidation	Section 172 - owner of a receptacle containing deleterious matter	Prevent pollution - deleterious liquid in a receptacle capable of causing pollution	Any receptacle that holds deletrious matter/liquid that could or is causing pollution	No permiting or licencing system - those that are licenced are done under Local Authority or EPA IPC	none	This can occur in any part of the catchment	This can occur anytime	none	No of pollution inspections	There should be no impact on flooding
Consolidation s	Section 173 - taking spawn or juvenille fish, damage to spawning bed	protection of fish, their spawn, their spawning beds and habitat	any agency, landowner will fall under this heading.	No permiting or licencing system is applicable during open season. Closed season requires Ministerial derrogation	none	part of the catchment	This can occur anytime			There should be no impact on flooding - apart from the timing of works
Consolidation of Act:	Section 173 - wilfully obstructs the passage of the smolts or fry of salmon, trout or eels	Protection of the passage of migratory fish and the young of migratory fish	The provision of fish passage at Ahascragh on River Bunowen; 2) Provision of fish passage at Greenhills Tributary, Birdhill, Tipperary	Section 59 Authorisation, 1959 Fisheries Act; Appropriate Assessment (Habitats Directive); Planning Act 2000; Arterial Drainage Act	none	1) E177521 N238946 2) E172550 N169734	1) June-Sept 2016 and maybe in to summer 2017; 2) Summer 2016	authorisation; section 47 Arterial Drainage Act; Planning Act 2000	spawning habitat above barrier (depending on option prefered). 2) Open up approx 2km of channel for salmonid and lamprey spawning and for eel	1 + 2: Any works to fish improvement will in theory benefit flood levels by lowering water levels above the impoundment. If full removal, it will lower levels to near natural conditions and improve salmonid spawning habitat above. It's impact will be positive on flood levels by reducing levels above the obstacle.

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1959 Fisheries Consolidation Act:	Section 327 - right of owner to take materials from a stream	This section is not used as habitats legislation superceedes it	Only applies to landowners/fishery owners	No permiting or licencing system applicable	none	This can occur in any part of the catchment	This can occur anytime	none	No of infrastructural projects/civil works assessed	
Fisheries Act	Section 7 - role of IFI is protection, management and conservation of the inland fisheries resource	Provide consultation/advice and ensure compliance to other parties regarding protection of fish, their spawn, their spawning beds and habitat	Any physical instream works planned by any agency, landowner will fall under this heading.	No permiting or licencing system applicable	Staff resources, boats and equipment	This can occur in any part of the catchment	This can occur anytime	none	Various metrics eg No of infrastructural projects/civil works assessed	There should be no impact on flooding - apart from the timing of works
Inland Fisheries Act 2010	Section 59 - fishery improvement works by IFI		conjuction with ESB Fisheries. Also	Section 59 authorisation (2010 Inland Fisheries Act); AA under Habitats Directive	none	Lecarrow River (E 196465 N 255076); Cornamisogue River (E 197888 N 252131)		exempt	Improvement to 2km of channel in each River.	These rehabilitation works are necessary to replenish lost fisheries habitat due to indescriminate drainage practices (mostly pre 1970's). The features involve low grade features (if any) which are only inserted where there is gradient and the impact of such will only be for a few meters above the structures. These features actually improve sinuosity in the channel and improve conveyance They also retain thalweg and conveyance through middle deeper section. as a consequence these works will also improve habitat for all fish and aquatic species with subsequent knock-on effects for riparian biodiversity.
Inland Fisheries Act 2010	Section 59 - fishery improvement works by IFI	Possible projects under the Salmon Conservation Fund (SCF); National Strategy for Angling Development (NSAD)	Various proposals under NSAD) including in-stream rehabilitation, pruning and thinning of riparian and angling infrastructure development. Includes proposals for: Rehabilitation on RiverTirur (Suck catchment); others are infrastructure development with no flood impacts. SCF projects not assessed yet. Likely areas are: River Inny (Upper Inny at Oldcastle); Derravaragh subcatchments (Yellow, Gaine and Bishops Rivers); Ennell sub-catchments (Dysart and Tudenham); Suck River (Ballyforan; Island River), Nenagh river, Derryober river (Woodford), Mulkear river (Newport)	Section 59 authorisation (2010 Inland Fisheries Act); AA under Habitats Directive	none	Potentially: River Inny (Upper Inny at Oldcastle); Derravaragh sub-catchments (Yellow, Gaine and Bishops Rivers); Ennell sub-catchments (Dysart and Tudenham); Suck River (Ballyforan; Island River)		Section 59 authorisation (2010 Inland Fisheries Act); AA under Habitats Directive		Small scale rehabiliation works to enhance spawning of fish. No impact on floods. Increases flow over gravels if spawning gravels. Improves conservation value for salmonids. Improves conditions for other fish and aquatic species and has the knock-on effect of improving instream and riparian biodiversity generally.
	Section 59 - fishery improvement works by IFI	Possible project under Failte Ireland/ Dept of Environment re fishing infrastructure improvements - stands, platforms, slipways	Various proposals under NSAD but none agreed yet. Lough Derg at Portumna and Mota possibly	Planning permission, AA	none	Mota, Lough Derg and River Shannon at Portumna		Section 59 authorisation (2010 Inland Fisheries Act); AA under Habitats Directive	No of angling spaces created/maintained	There should be no impact on flooding
Irish Wate	er (IW)									
	National water utility responsible for providing public drinking water and waste water services throughout Ireland. Water Services Acts, 2007 to 2014 and		WWTP Plant Upgrade	Exempt Development	Bunlicky (Limerick City) Wastewater Treatment Plant - Interim Upgrade	Plant Upgrade	Complete by mid 2017	Not Applicable	Not Applicable	No Impact
	Urban Waste Water Discharge (Authorisation)		WWTP Plant Upgrade	LA Planning Permission	Athlone Wastewater Treatmetn Plant - Interim Upgrade	Plant Upgrade	Start mid 2016. Complete end 2017	Not Applicable	Not Applicable	No Impact
	Regulations, 2007		WWTP Plant and Drainage Network Upgrade	LA Planning Permission	Shannon Town Sewerage Scheme	Plant and Drainage Network Upgrade	Complete end 2016	Not Applicable	Not Applicable	No Impact
			WWTP Plant Upgrade	LA Planning Permission	Mohill Wastewater Treatment Plant	Plant Upgrade	Start mid 2016. Complete by mid 2018	Not Applicable	Not Applicable	No Impact

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		WWTP Outfall Works	Not Applicable	Bunlicky (Limerick City)Wastewater Treatment Plant-Outfall Works	Capital Maintenance	Start mid 2016. Complete by end 2016	Not Applicable	Not Applicable	No Impact
Waterways Ireland (WI)									
	Navigation Authority	defined Ordinary Summer Level and within defined limits.	Waterways Ireland issues permit, licence or lease as appropriate for works and activities on the Shannon and subsidary lakes which are defined by limits of the Shannon Commission jurisdiction & property maps.	_			under instruction of ESB. Overall	Water levels managed daily at interim river control structures to maintain navigable channel levels. ESB maintain water levels within agreed operating control limits on lakes.	Controls storage to minimise risk while accommodating requirements of all operating and impacted bodies. Maintain Navigation open during boating season.
		Cut back overhanging vegetation impacting on the navigation channel. Maintain navigation channel and bed free from obstruction. Maintain water control structures free from obstruction. On going maintenance & operation of pumping systems to canals		In navigation channel and at sites listed above		Annual Inspection, cut back of vegetation in canals where navigation may be restricted. Removal of obstructing debris from structures	Consultation NPWS,		
		pumping systems to canais				arise.			
Office of Public Works (O	PW)				<u>l</u>				
Arterial Drainage Maintenance: The Commissioners of Public Works have a duty under Section 37 of the Arterial Drainage Act, 1945 to maintain drainage works carried out under said Act "in proper repair and effective condition"	Full		Channels and embankments are to be maintained on the following schemes: Boyle, Knockroghery, Inny, Brosna, Killimor/Cappagh, Carrigahorig, Nenagh/Clareen, Mulkear, Groody, Maigue, Deel, Feale, and those embankment schemes administered collectively by OPW as Shannon Embankments North and Shannon Embankments South.		Attached find GIS layers showing channels and embankments under our care and those stretches programmed for work in 2016	the year	We have agreed protocols with IFI and consult with DAHG (INPWS) on Habitats Directive requirements and DAHG (DAU) on possible impact on Archaeology. Appropriate Assessments must be carried out where our work is likely to have a significant effect on an SAC. In the event that species covered by the Wildlife Act are to be the subject of interference licences need to sought from NPWS	In 2016 829.7 kms of channels and embankments are to be maintained on the following schemes: Boyle, Knockroghery, Inny, Brosna, Killimor/Cappagh, Carrigahorig, Nenagh/Clareen, Mulkear, Groody, Maigue, Deel, Feale, and those embankment schemes administered collectively by OPW as Shannon Embankments North and Shannon Embankments South. Progress to be reported on quarterly.	The Programme ensures that flood risk in these cases is kept at the current relatively low level.

	Restrictions on The Construction or Alteration of Weirs and			Yes. Consent from OPW is part of the approval process but in many instances other consents are needed such as	State Agency Co-ordination v	Defined by each individual application	Ongoing throughout	No consent may be given without prior consultation with The	Decision within 8 weeks of receipt of complete application	These consents reduce enormously the risk that floodin might arise from the inappropriate erection or alteratio of the classes of structures covered.
	Bridges: Sections 47 and 50 prohibit the alteration or erection of weirs and bridges			planning permissions, railway orders, ABP sanction etc.				Minister for Agriculture or in contravention of certain orders made		
	without the prior consent of the Commissioners. (The ESB has a							of notices served under certain Fisheries Acts		
	derogation in the case of the former as do works carried out under certain provisions of Fisheries legislation.)									
	regisiation.)									
		OPW hydrometric programme	The OPW Hydrometric Section operates		Hydrometric network – public data	At various locations	Ongoing in real time	None	N/A	Helps quantify severity of event and aids all organisations in
			and maintains 118 surface water monitoring stations in the Shannon RBD. Real time water level data at 15 minute intervals is available at 109 (92%) of these stations, on the waterlevel.ie portal.		dissemination via waterlevel.ie and hydrodata					provision and management of flood response measures
	The 'Floods' Directive [2007/60/EC], and SI Nos. 122 of 2010 and 495 of 2015 - Preparation of Flood Maps and of Flood Risk Management Plans	Competent Authority	N/A	N/A	Hydrological analysis and hydraulics models used to prepare flood maps for High Priority Watercourses (HPW) and Medium Priority Watercourses (MPW) around the catchment	Catchment, with MPW Reaches interconnecting the AFAs and running downstream from Areas for Further	Ongoing and continuous until the end of 2016	Engagement, Coordination with NI Competent Authority and with EPA/DECLG on implementation of the Water Framework	Final Flood Maps - Q2 2016 Draft FRMPs, with preferred flood risk management measures - Q2 2016 Final FRMPs, Q4 2016	Flood Maps - Identification of flood prone areas (includ Flood Zones A and B for planning)FRMPs - Identificat of propsoed flood riskl management measures
Clare Cou	entre Council					Assessment (AFAs) to the sea		Directive (WFD), Public and Council		
	nty Council Responsibility for a	Administered by Clare Co	Maintenance works in a number of	By and large, no permits required for day	Diseat lebeur, aleut areteriele and	Drainage districts	No postinula stincia s	A management a suith	In relation to maintenance of natural drainage	Efficient operation and management of drainage
	number of Drainage Districts under the Arterial Drainage Acts.	Council	drainage districts throughout Co Clare - cleaning of drains and other waterways, dredging, sluice repair and maintenance, clearing around inlets and outlets and remediation works to River Fergus Barrage, south of Ennis. Effectiveness restricted by funding curtailment.	to day maintenance works	contract works where appropriated	include Fergus, Quin, Manus, Tiernaclane, Inagh, Newmarket, Sixmilebridge/Kilkishe n, Kilmaley and Scarriff.	No particular timing other than during Summer/Autumn in so far as feasible	Agreements with landowners	systems - restoration to established unrestricted capacity. In relation to constructed infrastructure restoration to original conditions.	district/systems - facilitation/ restriction/prevention of flow as appropriate.
	Various Legislation depending on nature of particular problem to be	Ditto	Identification of need for implementation of Minor Flood Relief Scheme (supported by OPW), design,	Planning approvals - Part 8 or An Bord Pleannala, Section 50 approvals - OPW,	Direct labour , plant, materials and contract works where appropriated. Asset delivered by schemes.	Numerous locations throughout County Clare - including Ennis,	Varies - depends on timing of approvals, availability of funding	See 4th column to left	Achievement of Benefit Ration of 1.5 or more. Design to defend against 100 year flood.	Resolution of flooding problem without adverse impact other locations, either from flooding or environmental
	dealt with		organise statutory approvals, application for funding and implementation - schemes can vary in nature from culvert and drain construction/enhancement, provision overflow systems, sluices, pumped solutions, etc	liaison with and compliance with requirements of Fisheries, NPWS and other State Agencies.	Asset delivered by schemes.	North Clare - centred around Burren area and a number of sites in East Clare	mostly Summer/Autumn			perspectives.
	Schemes carried out under OPW legislation and powers	OPW primarily - in consultation with Clare Co Council	Major Flood Relief Schemes - urban centres - river channel capacity increase, strengthening and raising of river walls and banks, culvert and pumping capacity provision, etc	Planning approvals under OPW Exhibition Process - consultation with various statutory national bodies.	Direct labour, plant, materials and contract works where appropriate. Assets delivered by schemes	2 major schemes delivered in Ennis Town within past 10 years	2 2 year continuous contracts	Ditto	Ditto	Ditto
		Managing Flooding in Mountshannon Co Clare				As Flood Levels in Lough Derg rise and Flows on the Shannon Increase, Flooding occurs in Low Lying Areas in Mountshannon	Rainfall and Shannon Flow Dependant. Flooding in Nov 2009			
		Managing Flooding in Scarriff Co Clare				Fluvial Flooding from Scarriff River	Rainfall and Shannon Flow Dependant. Flooding in Nov 2009 and Dec 2015			

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George Service of the Control of the		Managing Flooding in Killaloe		As Flood Levels in	Rainfall and Shannon		
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	Managing Flooding along				1		Very high tides on		
	Shannon estuary Co Clare				particual with	coastal locations but	January 3rd and 6th		
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					combined storm surge	, and road	Feb 1st 2014. All		
					wave overtoppinng	infrastruature is	coincident with		
					nad high tide causes	exposed.	storm. Up to 10		
					significant damage	- Posca.	different areas		
					Significant dallage		cignificantly dead		
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y County Council									
Arterial Drainage Act		Removal of trees and blockages in	consultation with Inland Fisheries and		Boley, Thornfield,	Sep-16		5km	maintenance
		channel	NPWS		Portumna				
Arterial Drainage Act		Diver clearing	consultation with Inland Fisheries and	+	Abaccragh Diver	Con 10	AA Screening	2km	maintenance
Arterial Drainage Act		River clearing	1		Ahascragh River,	Sep-16	AA Screening	2km	maintenance
			NPWS						
Arterial Drainage Act		Channel clearing	consultation with Inland Fisheries and	1	Kellysgrove,	Sep-16		2km	maintenance
Turidge Act			NPWS		Clontuskert,	3cp-10			
					Ballinasloe				
Arterial Drainage Act		Channel and bridge clearing	consultation with Inland Fisheries and	+	Suck DD, Deerpark	Con 16	AA Screening	4km	maintenance
Arterial Drailiage ACC		Chainer and bridge clearing				Sep-16	AA SCIEETIIIII	4MII	maintenance
		<u> </u>	NPWS	<u> </u>	River		<u> </u>	<u> </u>	
Arterial Drainage Act		Bridge clearance	consultation with Inland Fisheries and		Mountbellew DD	Sep-16			maintenance
_			NPWS						
CFRAM		Portumna Flood Alleviation Measures	consultation with Inland Fisheries and	†	Portumna Town	ווון־טי	CFRAMS		Protection
CINCIVI		Totalina Hood Alleviation ivieasures	NPWS		i ortanina rowii	Jui-03	CI II/III/I		1 Totalion
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		Ballinasloe Flood Alleviation Measures	consultation with Inland Fisheries and		Ballinasloe Town	2016	CFRAMS		Protection
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		Clonfert, protection to 4 houses and	consultation with Inland Fisheries and		Clonfert, Ballinasloe	2016	OPW Minor Works		Protection & Improvements
		upgrade culvert	NPWS				Funding		
_		ODW/Minor Wester in the control of	.+	+	+	1		+	
		OPW Minor Works, joint inspections with	1						
		OPW to identify schemes							
County Council					N/A	N/A	N/A	N/A	N/A
Local Authority, Local	Local authority responsible for	r Shannon Estuary measures 1.82 km wide	None.	None.		1	I	1	
Local Authority, Local	Local authority responsible for Local Government in County		None.	None.	'				
Local Authority, Local Government Act 2001.	Local Government in County	at its narrowest point in County Kerry.	None.	None.					
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Roads Act 2002 Roads Authority L-3398-0 Raise Road park Lane Riasing road level above flood level Roads Act 2002 Roads Authority L-3399-7 Raise Road Shannon Court Riasing road level above flood level Roads Act 2002 Roads Authority L-3399-7 Raise Road Shannon Court Riasing road level above flood level Roads Act 2002 Roads Authority L-3399-7 Raise Road Shannon Court Riasing road level above flood level Roads Act 2002 Roads Authority L-3399-7 Raise Road Shannon Court Riasing road level above flood level Roads Act 2002 Roads Authority Road will be kept open to traffic during flood event above flood level	1.00007.101.2002					ahove flood lovel	2010	and Dart O Diagning		se hepe open to traine during flood event
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Roads Act 2002 Roads Authority L-3399-7 Raise Road Shannon Court Riasing road level above flood level	Roads Act 2002	Roads Authority	L-3398-0 Raise Road park Lane						150m of road raised	Road will be kept open to traffic during flood event
Roads Act 2002 Roads Authority L-3399-7 Raise Road Shannon Court Riasing road level above flood level 150m of road raised and Part 8 Planning Road will be kept open to traffic during flood event										
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Roads Act 2002									
	Roads Authority	L-3401-1 Raise Road Landmark Rd			Riasing road level	2016	Funding from DTTAS	250m of road raised	Road will be kept open to traffic during flood ever
					above flood level		and Part 8 Planning		
							Approval required	1	
Roads Act 2002	Roads Authority	L-3400 Riase Road Hartley Bridge			Riasing road level	2016	Funding from DTTAS	150m of road raised	Road will be kept open to traffic during flood ever
					above flood level		and Part 8 Planning		
							Approval required		
							, ipprovar regained		
Roads Act 2002	Roads Authority	R299-9 Raise Road Lough Bran			Riasing road level	2016	Funding from DTTAS	150m of road raised	Road will be kept open to traffic during flood ever
					above flood level		and Part 8 Planning		
					above moda level		Approval required		
							Approvar required		
Roads Act 2002	Roads Authority	R280-6 Riase Road Leitrim Village			Riasing road level	2016	Funding from DTTAS	150m of road raised	Road will be kept open to traffic during flood ever
110000371012002	Rodus Authority	N200 0 Mase Nodu Leitimi Village			above flood level	2010	1	150m of road raised	noda wiii be kept open to traine daring nood ever
					above 11000 level		and Part 8 Planning		
							Approval required		
Roads Act 2002	Roads Authority	R284-1 Raise Road Keadue Road			Riasing road level	2016	Funding from DTTAS	120m of road raised	Road will be kept open to traffic during flood ever
110000 7101 2002	nodus / tathonty	N204 I Naise Noda Readae Noda			above flood level	2010	and Part 8 Planning	120m or road raised	noud will be kept open to trume during hood ever
					above 11000 level		1		
							Approval required		
Roads Act 2002	Roads Authority	L3390 Raise Road Church Road			Riasing road level	2016	Funding from DTTAS	50m of road raised	Road will be kept open to traffic during flood ever
	,				above flood level		and Part 8 Planning		,
					above nood level				
							Approval required		
Roads Act 2002	Doods Authority	L 1496 Daisa Dand Waterfront			Diaging road lavel	201/	Funding from DTTAC	150m of road raised	Road will be kept open to traffic during flood ever
Noaus Act 2002	Roads Authority	L-1486 Raise Road Waterfront			Riasing road level	2016	Funding from DTTAS	150m of road raised	noad will be kept open to traffic during flood ever
					above flood level		and Part 8 Planning		
						1	Approval required		
			<u> </u>					<u> </u>	
Roads Act 2002	Roads Authority	L-1053 Raise Road Rinn Road			Riasing road level	2016	Funding from DTTAS	950m of road raised	Road will be kept open to traffic during flood ever
					above flood level		and Part 8 Planning		
							Approval required		
Roads Act 2002	Roads Authority	L-10531 Raise Road Lisdadanan			Riasing road level	2016	Funding from DTTAS	100m of road raised	Road will be kept open to traffic during flood ever
					above flood level		and Part 8 Planning		
							Approval required		
							I		
Roads Act 2002	Roads Authority	L-1053-4 Raise Road Lough Rinn Road			Riasing road level	2016	Funding from DTTAS	350m of road raised	Road will be kept open to traffic during flood ever
					above flood level		and Part 8 Planning		
					assic nesa level		Approval required		
							Approvariequireu		
Roads Act 2002	Roads Authority	L-1054 Raise Road Lough Rinn Drive			Riasing road level	2016	Funding from DTTAS	50m of road raised	Road will be kept open to traffic during flood ever
Noads Act 2002	Roads Additionity	L-1034 Kaise Road Lough Killin Drive				2010		Join of road raised	hoad will be kept open to traine during hood ever
					above flood level		and Part 8 Planning		
							Approval required		
							Approvarrequired		
Roads Act 2002	Roads Authority	N4 Raise Road Carrick on Shannon			Raising road above	2016		600m of road raised	
Roads Act 2002	Roads Authority	N4 Raise Road Carrick on Shannon			Raising road above	2016	Funding from TII and	600m of road raised	
Roads Act 2002	Roads Authority	N4 Raise Road Carrick on Shannon			Raising road above flood level	2016	Funding from TII and Part 8 Planning	600m of road raised	
Roads Act 2002	Roads Authority	N4 Raise Road Carrick on Shannon			_	2016	Funding from TII and	600m of road raised	
Roads Act 2002	Roads Authority	N4 Raise Road Carrick on Shannon			_	2016	Funding from TII and Part 8 Planning	600m of road raised	
		N4 Raise Road Carrick on Shannon			_	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil				flood level	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	Inland fisheries normally notified in	N/A	flood level Please see attached	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil		Inland fisheries normally notified in advance of works.	N/A	Please see attached maps of Arterial	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	flood level Please see attached	2016	Funding from TII and Part 8 Planning	600m of road raised	
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ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC.	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC.	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve	2016	Funding from TII and Part 8 Planning	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016		Funding from TII and Part 8 Planning Approval required	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve	Summer, one clean	Funding from TII and Part 8 Planning	600m of road raised	Works aid flow in outfall toward Shannon
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River		Funding from TII and Part 8 Planning Approval required	600m of road raised	Works aid flow in outfall toward Shannon
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016		Funding from TII and Part 8 Planning Approval required Advance notice to	600m of road raised	Works aid flow in outfall toward Shannon Works aid flow in outfall toward Suck
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River AO Ballyminton	Summer,one clean	Funding from TII and Part 8 Planning Approval required Advance notice to fisheries	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River AO Ballyminton Drainge scheme	Summer,one clean Summer,one clean	Funding from TII and Part 8 Planning Approval required Advance notice to fisheries Advance notice to fisheries	600m of road raised	
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River AO Ballyminton	Summer,one clean	Advance notice to fisheries Advance notice to fisheries Advance notice to form to fisheries Advance notice to fisheries	600m of road raised	Works aid flow in outfall toward Suck
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River AO Ballyminton Drainge scheme RO Hind River	Summer,one clean Summer,one clean Summer,one clean	Advance notice to fisheries Advance notice to fisheries Advance notice to fisheries	600m of road raised	Works aid flow in outfall toward Suck Works aid flow in outfall toward Shannon
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River AO Ballyminton Drainge scheme	Summer,one clean Summer,one clean	Advance notice to fisheries	600m of road raised	Works aid flow in outfall toward Suck
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River AO Ballyminton Drainge scheme RO Hind River RO Clooneigh River	Summer,one clean Summer,one clean Summer,one clean Summer,one clean	Advance notice to fisheries	600m of road raised	Works aid flow in outfall toward Suck Works aid flow in outfall toward Shannon Works aid flow in outfall toward Shannon
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River AO Ballyminton Drainge scheme RO Hind River	Summer,one clean Summer,one clean Summer,one clean	Advance notice to fisheries	600m of road raised	Works aid flow in outfall toward Suck Works aid flow in outfall toward Shannon
ommon County C	ouncil	Cleaning of River Channels, cleaning up	1	N/A	Please see attached maps of Arterial Drainage schemes where maintenace/cleaning works are normally carried out by RCC. The schemes listed below will recieve some work in 2016 AO Cross River AO Ballyminton Drainge scheme RO Hind River RO Clooneigh River	Summer,one clean Summer,one clean Summer,one clean Summer,one clean	Advance notice to fisheries	600m of road raised	Works aid flow in outfall toward Suck Works aid flow in outfall toward Shannon Works aid flow in outfall toward Shannon
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					- State Agency Co or amation to					
						Note some works are usually carried out on the River Suck if funding made availabe. Exact locations not known at this time.				
Tipperary Cou	unty Council									
Plannin	ing and I	Local Authority	N/A	Zoning/Planning Permissions	N/A					
	ial Drainage Act, I as amended	Local Authority	Channel cleaning as set out in the Act	Consultation with OPW and Habitats Directives		Maps available from each Local Authority	Annual programme		Bound by terms of the Act	Bound by terms of the Act
Authori non-sta the are	ority roles relate to (statutory activities in stream of support to effected by	Temporary accommodation, Civil Defence, Roads, Water Services and Emergency response staff								
Westmeath Co	County Counc	cil				•				
Mainte Westm part of Drainag	tenance of rivers in meath which were	Allocation of funding and completion of maintenance works	Minor maintenance works on the Boor, Worm and Al Rivers within county Westmeath	Generally no permits required for these works	Total budget for 2016 of €26,500. Work to be completed by direct labour, plant, materials and contract works where appropriate	Minor clearing and maintenance works on Boor, Worm and Al Rivers in the vicinity of Ballinahown and Athlone. Works Locations depend on need at time of works	Autumn. Duration is a	Consultation and agreement with landowners	Maintenance of drainage channels by removing vegetation and restrictions and repairing culverts	Maintenance of existing drainage systems
	ed Acts. Roads	Maintenance of Public Roads Network	Raise road levels within flood plain in Athlone area to prevent future flooding. Assessment and Design of Scheme to be prepared in 2016 and works to be carried out at later date subject to funding. Total length of roads is approximately 7.5km.	Pleanala) as part of the affected area would be within the zone of influence	Funding allocation in place to appoint Consulting Engineers to carry out assessments and prepare designs and scheme details	The roads are located in the Carrickobrien, Golden Island, and Muchanagh area of Athlone	Works not yet programmed and will depend on allocation of funding	agreement with landowners,	The objective is to raise the surface level of public roads in order to prevent flooding of the road and allow the road to remain open to traffic during flood events	Raising road levels for limited extend (approx 7.5km) within flood plain. Minimal impact on flooding.
Longfor has a st respons from th Drainag	n Drainage District - If ord County Council (statutory , nsibility arising '	Responsibility arising from the Camlin River Drainage District in addition an annual return "C25 Form" is submitted to the OPW each year	Chanel Cleaning including the removal of vegetation	Longford County County consults with Inland Fisheries Ireland and Parks & Wildlife prior to the carrying out of works	Primarily Farmland will benefit from the maintenance works in this year, however there were benefits to housing and commercial properties when maintenance was carried out in previous years near the towns of Longford and Ballinalee	Channel Cleaning for a length of circa 3km of the Camlin river which is located east of the Of Ballinalee,	June to August 2016	agreements with; the owners of the land which will be traversed, Inland Fisheries Ireland and Dept of Parks& Wildlife.	number of km of channel cleaned	1) reduction of the amount of farm land that has flooded in recent years flood 2) continuation of a multiannual programme for channel cleaning on the river Camlin
Offaly County	v Council									
Camcor	age Districts on or River, near Birr	Combined budget of €30,000 provided in 2016 budget for Camcor/Little Brosna	Channel Cleaning at Bridges; Cleaning gravel traps	Consultation with Inland Fisheries and landowners regarding all works prior to commencement	Primarily farmland and road structures; Prevention of erosion of riverbanks.	Locations (to be decided) on Camcor River between Birr Town and Drumcullen Bridge (near Kinnity)	Works will take place in September	Informal agreement of Inland Fisheries & Landowners	Km. Of channel/ protection of structures.	Protection of River Banks and Road Structures. Mitigation of Risk to Farmland.
Little Bi Birr, un	Brosna River, near	Combined budget of €30,000 provided in 2016 budget for Camcor/Little Brosna	Channel Cleaning /Removing Vegetation	Consultation with Inland Fisheries and landowners regarding all works prior to commencement	Primarily farmland	Little Brosna near Riverstown	Works will take place in September	Informal agreement of Inland Fisheries & Landowners	Km of channel	Protection of River Banks and Road Structures. Mitigation of Risk to Farmland.
Cavan County	y Council									
	- -	inny River Water Management Unit (WMU) is partly located in Co. Cavan	None planned	Not Applicable as no works planned	None Known	N/A	N/A	N/A	N/A	N/A
	Authority p	Upper Shannon Water Management Unit (WMU) is partly located in Co. Cavan	None planned	Not Applicable as no works planned	None Known	N/A	N/A	N/A	N/A	N/A
	Council									

			_		otate Agency Co orumation t			,		
		Emergency Flood Management in Milford and Charleville								
Limerick	City and County	Council								
	Planning Act	Planning Authority for new	CFRAMS has identified a large number of	An Bord Pleanala, National Parks &	CFRAMS Mapping	Lower Shannon	As Required	An Bord Pleanala	Number of New Schemes Completed. Number of	Up to 1000 properties could be at risk of flooding in the
	• • • • • • • • • • • • • • • • • • •	flood protection works	areas in Limerick that are a risk of flooding and where new flood defence infrastructure will have to be constructed including, Montpellier, castleconnell, ballyvollane, Annacotty, Corbally, Kings Island, Limerick City, Condell Road, Foynes and Askeaton	Wildlife Service, Department of Environment, Department of Arts		Catchment along the River in Administrative area of Limerick City & County Council			Homes where risk of flooding has been reduced.	Limerick area with rising flood levels if new infrastructure is not provided. In 2015 up to 200 properties were at risk of flooding and over 20 were flooded.
	Planning Act	Lead Agency on delivery of	Currently taking the Kings Island Flood	An Bord Pleanala. National Parks &	CFRAMS Mapping, Surge Prediction	Kings Island, Limerick	2016 to 2020		% Scheme completed	Severe flooding in February 2014, over 80 homes flooded.
		some Flood Defence Schemes funded by OPW	defence Works through the Design and Planning Phase. CFRAMS outlines a number of Areas in Limerick that are vunerable to flooding and will require physical interventions to reduce flood risk.	Wildlife Service, Department of Environment, Department of Arts Heritage and Gaeltacht, Office of Public Works	Model, OPW Water Level Gagues, Met Eireann, Information from ESB on Water Release at Parteen Weir.	City Centre.				
	Arterial drainage Act	Statutory Obligations under	Regular annual Maintenance work ios	National Parks & Wildlife Service, Office		River Mulcair flows	Annual work	Permissions from	Km of Channell cleaned	
	1945	Section 30 of the Arterial Drainage Act 1945 for the following Drainage Districts, Mulkear & Cappamore, Annaslinga, and Ballinacourty. The River Mulkear is a Major Tributary River of The Shannon	carried out on the River Mulcair, Dead River and the Reask river including channel cleaning, removal of obstructions, vegetation etc and operation of valves.	of Public Works.		into the River Shannon upstream of Limerick City		NPWs and Inland Fisheries.		
		First Response Agency in the	Main response Agency to recent flooding	ESB, Department of Environment, HSE,	Surge Prediction Model, OPW Water		As Required			Minimise Flood Risk on vunerable properties and
		event of flooding or threats of flooding	events including provision of temporary flood protection measures and pumping in Montpellier, castleconnell, ballyvollane, Annacotty, Corbally, Kings Island, Limerick City, Condell Road, Foynes and Askeaton.	An Garda Siochana, Directorate for Fire and Emergency Management, Department of Social Protection. Red Cross. OPW.	Level Gagues, Met Eireann, Informatior from ESB on Water Release at Parteen Weir.					infrastructure and aid with cleanup where flooding has occured.
		Operator of some Demountable Flood barriers and temporary pumps			Surge Prediction Model, OPW Water Level Gagues, Met Eireann, Informatior from ESB on Water Release at Parteen Weir.	1	During High Tides on river shannon.			Minimising Risk of flooding in areas where this infrastructure is available
		Managament and		An Bord Pleanala. National Parks &			Annual work	Ministerial Consent,	No of Annual Bridge Inspections	
		Management and Maintenance of Bridges including Construction of new Bridges		Wildlife Service, Department of Environment, TII, Department of Arts Heritage and Gaeltacht, Office of Public Works, Waterways Ireland,			Allitual Work	NPWS, EIS, AA.	NO OI AIIIIUAI BITUge IIIspections	
		Park Canal - Role to be agreed with Waterways Ireland.	Locke Gates	Waterways Ireland						
Departme	ent of Arts. Heri	tage and the Gaelt	acht - National Parks and	Wildlife Service						<u></u>
		Government Department with		N/A	N/A	N/A	N/A	N/A	N/A	N/A
	,	responsbility regarding					Í			
	Referal body under Regulation 42(10) EC (Birds and Habitats) Regulations 2011 in respect of AA and public authorities' own plans and projects	Government Department with responsbility regarding oversight of the implementation of the Habitats and Birds Directives	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

		,		State Agency co-ordination t					
Licence Authority	Licence authority in relation to	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	various flora, fauna and								
	habitats under the EC(Birds								
	and Natural Habitats)								
	Regulations 2011 (Regulation								
	54 and 55)								
Consent Authority	Consent authority for	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	"Activtities Requiring Consent"	· `							
	under Regulation 28 of the								
	EC(Birds and Natural Habitats)								
	Regulations 2011 where in								
	some cases certain works								
	proposed to be undertaken by	,							
	non public bodies requrie the								
	consent of the Minister								
	consent or the minister								
	Peatlands	7 raised bog LIFE sites are within Shannon							
		catchment as defined by CFRAMS. There will							
		be drainage management plans to be							
		developed with OPW and all stakeholders							
		before any restoration works commence. The							
		drainage management plans will be designed							
		to ensure any restoration works will have							
		negligible downstream impacts.							
		Potential relocation of turf cutters to non-							
		designated bogswithin the Shannon							
		Catchment area could have implications in							
		terms of infrastructure and drainage works in							
		the relocation sites and consequently							
		possible planning implications.							
				l .	1	1			