Mar-18

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Date last Updated:	24/7/2018				OPW	
Con	npliance Rep	ort for the Schedu	le of Environmental Commitments			
EIS / NIS Reference	EIS / NIS Pg. No.	Impact	Specific Mitigation Measure	Specific Implementation Action	Responsibility	Status
				· · ·	· · ·	
		Human Beings,	Socio economic Access ramps will be constructed on some of the proposed embankments to maintain access to			
5.4.1		Economic Fcology (terrest	properties and land.		OPW	2018
		Siltation	The educ of the proposed embankment beside Templemore Lake will be a minimum of 5m from the			
6.5.1	EIS p71		boundary. No material will be stored within this buffer zone.		OPW/ Ecologist	2018
			Hedgerow, tree-line and woodland vegetation that is to be retained will be clearly marked and	Fox den has been identified on site no licencing requirements however as a matter of good		
6.5.2	EIS p71	Birds / Biodiversity	fenced off to avoid accidental damage during excavations and site preparation. No materials should be stored within 5m of retained hedgerows/trees/woodland.	environmental practice this location will not be interefered with.	OPW/ Ecologist	Ongoing
			The proposed Site works method statements will be reviewed and monitoring will be conducted by			
6.5.2 and 7.5.2	EIS p71,95	Environmental	an Ecologist.	As per CEMP	OPW/ Ecologist	Ongoing
6.5.3	EIS p71	Otters	Construction works will follow the NRA's documents 'Guidelines for the Crossing of Watercourses during the Construction of National Road Schemes' (NRA, 2005) and 'Guidelines for the treatment of otters during the Construction of National Road Schemes' (NRA, 2006).	As per CEMP	OPW/ Ecologist	Ongoing
0.0.3	El3 p/1	Otters	During vegetation clearance along drains and the Mall River, an Ecologist will resurvey this area specifically for otter. This will include assessing breeding activity within the site and a license	AS PEL CENT	Of the Ecologist	Origonig
6.5.3	EIS p71	Otters	application to the NPWS, if required.	As per CEMP	OPW/ Ecologist	Ongoing
6.5.3	EIS p71	Otters	The Mall River corridor will not be blocked off especially at night. Loss of potential forage habitat (riparian woodland and sections of hedgerow) during construction		OPW	Ongoing
			will be compensated by native tree planting, the mix of which will be similar to existing tree/ shrub species. Following the construction phase, replanting			
6.5.3 and 6.5.4	EIS p71, 72	Birds / Biodiversity	using native woody vegetation of local provenance, currently existing on site will be implemented, where hedgerow and riparian vegetation removal was significant. Where this is likely to recover, natural re-colonisation is preferable.		OPW/ Ecologist	2018
			It is recommended that woody vegetation removal be undertaken <u>outside</u> of the main bird nesting		-	
			period which begins on March 1st and continues until August 31st. A licence is generally required from the National Parks and Wildlife Service under the Wildlife Acts 1976 and 2000 if any habitat			
6.5.4	EIS p72	Birds / Biodiversity	(e.g. scrub, trees, hedgerows) to be removed is known to contain nesting birds. The 'old' channel is to be modified to ensure that fish can no longer enter it and become trapped	No licence requred	OPW/ Ecologist	Concluded
			The 'old' channel is to be modified to ensure that isn can no longer enter it and become trapped after a flood event. Any piped waste water discharges will be assessed in terms of waste assimilation capacity of the receiving water and treatment such as oil/water separation will be			
7.5.2	EIS p93,94	Aquatic species	provided. The timing of the works will be agreed in advance with the National Parks and Wildlife Service		OPW	2018
			(NPWS) and Inland Fisheries Ireland (IFI). The works are located within a river corridor used by salmonids and lampreys for spawning. To protect salmon and trout it will be necessary to time			
7.5.2 and 3.10.3.2	EIS P94, NIS p31	Aquatic species	works outside the window of October to May. Brook lampreys spawn in the spring and early summer months and the timing of works should also take this species into account.		OPW/ Ecologist	2018
7.5.2 and 3.10.3.2	EIS p94,127, NIS p31	Aquatic species	No in-stream excavations or other works involving interference with the bed, bank or soil should take place outside of the immediate areas where the flood channel joins the Mail River.		OPW	2018
			The appointed contractor will be required to provide a detailed method statement showing how water quality impacts and habitat loss during the works will be minimised. The methodology will be			
7.5.2 and 3.10.3.3	EIS P94, NIS p31	Environmental	approved by both the IFI and the NPWS prior to any works taking place. A translocation plan will need to designed and implemented prior to water being diverted into the	Consultation with IF regarding Silt pond has occurred.	OPW	Ongoing
7.5.2 and 3.10.3.3	EIS P94, NIS p31	Aquatic species / Biodiversity	new channel. The fisheries board documents "Maintenance and protection of the inland fisheries resource during		OPW	2018
			road construction and improvement works. Requirements of the Southern Regional Fisheries Board* (Kilfeather, 2007) and 'Requirements for the Protection of Fisheries Habitat during			
7.5.2 and 9.5.1 and 3.10.3.3	EIS p94,127, NIS p31	Fish	Construction and Development Works at River Sites' (Murphy, 2004) would also be followed where relevant.		OPW/ Ecologist	Ongoing
7.5.2 and 3.103	EIS p95, NIS p31	Siltation	A silt fence (or equivalent barrier) will be used to surround the works area.	A silt fence has been erected around spoil deposition area.	OPW/ Ecologist	Ongoing
7.5.2	EIS p95	Pollution	All necessary measures will be taken to prevent the release of oil, fuels or other pollutants into the Mall River.	As per CEMP	OPW/ Ecologist	Ongoing
7.5.1 and 9.5.1	EIS p93,127	Siltation	The works will be carried out during dry weather and halted during heavy rainfall to reduce suspended solids in the river.	Siltation pond has been constructed as per the environmental officers instructions.	OPW/ Ecologist	Ongoing
			Spoil and removed vegetation material from the river is to be stored no less than 5m back from the river and vegetation within this 5m buffer zone is to be retained, in order to reduce the run-off of			
7.5.2 and 9.5.1	EIS p95,127	Siltation	suspended solids back into the water course. The machines being used to excavate the river may contain fragments of exotic invasive flora and		OPW/ Ecologist	Ongoing
7.5.2	EIS p95, NIS p32	Invasive species / biodiversity	therefore they will need to be cleaned at the start of the excavation of the river. Particular care will be taken when working near mature trees in order to protect roots extending into	As per CEMP	OPW/ Ecologist	Ongoing
7.5.2	EIS p95	Birds / Biodiversity	the works site. Mature trees will be retained and scrub and hedgerow will be retained where possible.	As per CEMP	OPW/ Ecologist	Ongoing
7.6	EIS p96	Aquatic Species	It will be important to ensure that the proposed weir is designed to be suitable for passage of brook lampreys and white-clawed crayfish. A suitable solution would be to backfill the downstream end of the weir to create a 'rock ramp'.		OPW	2018
			The flood channel will be designed to have a consistent gradient with no areas of pooled water			
3.10.2.1	NIS p28	Fish Soils and	where fish may become trapped after a flood event.	As per CEMP	OPW	Ongoing
			Settlement of runoff and groundwater from the construction site will be required as part of the site works. Works will be undertaken in accordance with CIRIA 650 'Environmental good practice on	Siltation pond has been constructed as per the environmental officers instructions. 8 no suspended		
8.5.1	EIS p115	Siltation	site'.	solids monitoring has occurred	OPW	Ongoing
8.5.1	EIS p115	Soil	Planned construction works will be carried out with the minimum disturbance of soils.	Silt curtain installed where appropriate	OPW	Ongoing
	F10		To minimise any impact on the underlying subsurface strata from material spillages, all oils, solvents and paints used during construction will be stored within specially constructed dedicated			
8.5.1	EIS p115	Pollution	temporary bunded areas. Refuelling of construction vehicles and the addition of hydraulic oils or lubricants to vehicles, will	Refuelling locations have been identified.	OPW	Ongoing
8.5.1	EIS p115	Socio / Economic	take place in a designated area, away from surface water guillies or drains. Spill kits and hydrocarbon adsorbent packs will be stored in this area and operators will be fully trained in the use of this equipment.	Refuelling locations have been identified.	OPW	Ongoing
8.5.1	EIS p115	Socio / Economic	A detailed condition survey should be conducted on properties within 5m of the diversion prior to and post construction.	As per CEMP	OPW	Ongoing
0.5.1	EIS PI IS	SOCIO / ECONOMIC	The maintenance of the embankment should follow the framework and principles set out in	AS PER CEMP		Ungoing
8.5.1	EIS p115	Mainteance	'Management of Flood Embankments, A good practice review' (DEFRA/EA, 2007).			
				As per CEMP	OPW	2018
		W	ter	As per CEMP	ОРW	2018
		w	ter With regard to on-site storage facilities and activities, any raw materials, fuels and chemicals, will be stored within structurally sound warehousing buildings and/or bunded areas if appropriate to	As per CEMP	OPW	2018
9.5.1	EIS p126	Wi	ter With regard to on-site storage facilities and activities, any raw materials, fuels and chemicals, will	As per CEMP As per CEMP	OPW	Ongoing
9.5.1 9.5.1	EIS p126	Pollution Sitation	With regard to on-site storage facilities and activities, any raw materials, fuels and chemicals, will be stored within structurally sound warehousing buildings and/or burieds areas if appropriate to the relative storage. All equipment and machinery will have regular			
			With regard to on-site storage facilities and activities, any raw materials, fuels and chemicals, will be stored within structurally sound warehousing buildings and/or burieds areas if appropriate to guard against potential accidental splice releadages. All equations and machinery will have regular checking for leakages and quality of performance. All potential run-off is to be diverted through appropriate settlement tanksight traps. The never channel works will be carried out during day weather and hatted during heavy rainfall averants to reduce suspended solds in the river and flowing to other pairs e.g. the People Sur.	As per CEMP	OPW	Ongoing
9.5.1	EIS p126	Siltation	With regard to on-site storage facilities and activities, any raw materials, hele and chemicals, will be stored within structurally sound warehousing baldings and/or bursed afeas's appropriate to part against potential checking for leakages and quality of performance. Help and the regular checking for leakages and quality of performance. Help and the regular checking for leakages and quality of performance. Help and the regular checking for leakages and quality of performance. Help and the regular checking to the storage of the regular checking the	As per CEMP As per CEMP	OPW	Ongoing Ongoing
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9.5.1	EIS p126	Siltation	With regard to on-site storage facilities and activities, any raw materials, fuels and chemicals, will be stored within structurally sound warehousing buildings and/or burieds areas if appropriate to guard against potential occlerated splice to lessages. All equality of performance. All potential run off is to be diverted through appropriate settlement tanksight traps. The niver channel works will be carried out during dry weather and hated during heavy rainfall events to reduce suspended solds in the river and flowing to other parts e.g. the River Sur. Spoil and emoved veglection materials from the river is to be stored hos less than 5 hos buts from the river and vegetation within this this multier zone is to be relatived, in order to reduce the run-off of supported solds but his this warrier.	As per CEMP As per CEMP	OPW	Ongoing Ongoing
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Templemore Flood Relief Scheme

Mar-18

Rev: 0.0
Date last Updated: 24/7/2018



EIS / NIS Reference	mpliance Rer					
EIS / NIS Reference	1	ort for the Schedu	le of Environmental Commitments			
	EIS / NIS Pg. No.	Impact	Specific Mitigation Measure	Specific Implementation Action	Responsibility	Status
			Site roads shall be regularly cleaned and maintained as appropriate. Hard surface roads shall be			
			swept to remove mud and aggregate materials from their surface as a result of the development works. Any un-surfaced roads shall be restricted to essential site traffic only. Furthermore, any road			
11.5	EIS p156	Human Health	that has the potential to give rise to fugitive dust may be regularly watered, as appropriate, during extended dry and/or windy conditions.		OPW	Q4 2017
11.5	EIS p156	Human Health	A full traffic management plan and dust management plan will be implemented into the Construction Environmental Management Plan (CEMP)	As per CEMP	OPW	Ongoing
-			Vehicles using site roads shall have their speed restricted, and this speed restriction must be enforced rigidly. On any un-surfaced site road and on hard surfaced roads that site management			
11.5	EIS p157	Human Health	dictates speed shall be restricted to 20 km per hour	As per CEMP	OPW	Ongoing
11.5	EIS p157	Umana Haalib	Material handling systems and site stockpilling of materials shall be designed and laid out to minimise exposure to wind. Water misting or sprays shall be used as required if particularly dusty activities are necessary during dry or windy periods.	4	OPW	0
11.5	EIS p15/	Human Health	In periods of dry weather when dust emission would be greatest, a road sweeper, which would also	As per CEMP	OPW	Ongoing
11.5	EIS p157	Human Health	dampen the road, may be employed in order to prevent the generation of dust	As per CEMP	OPW	Ongoing
	1	Landscape and	d Visual Impact			
12.5.1	EIS p173	Visual Impact	Design ramps with gradual slopes and appropriate materials in order to minimise visual impact.		OPW	2018
12.5.1	EIS p174	Visual Impact	Use materials, pointings and finish to match the existing walls.		OPW	2018
10.51	F10 -474	Manual Instant	The flood defence embankments should be rounded off at the top with a shallow grade and		OTH	2040
12.5.1	EIS p174	Visual Impact	softened with a seed mix to match the existing groundcover vegetation/grass. The footprint for the embankment within the park should be designed to protect existing mature		OPW	2018
12.5.1	EIS p174	Birds / Biodiversity	trees.		OPW	2018
12.5.1	EIS p174	Birds / Biodiversity	Avoid the removal of mature trees during construction – protect trees being retained.	As per CEMP	OPW	Onging
		Birds / Biodiversity	Where removal of trees during construction is necessary they should be replaced with like size and			
12.5.1	EIS p174		type plants.		OPW	2018
12.5.1	EIS p174	Birds / Biodiversity	Provide new native planting in the vicinity of the weir where existing planting will be removed during construction.		OPW	2018
			Potential visual impact can be minimised by removing the least amount of existing vegetation			
12.5.2	EIS p174	Visual Impact	possible, and by protecting any adjacent vegetation during construction. Route of diversion should follow any existing field boundaries in order to minimise any severance of	As per CEMP	OPW	Onging
12.5.2	EIS p174	Visual Impact	land/properties.	As per CEMP	OPW	Onging
12.5.2	EIS p174	Visual Impact/ Biodiversity	Where removal of vegetation cannot be avoided, it should be replaced where possible in the same location or nearby, and to the same size, on completion of construction works.		OPW	2018
12.5.2	EIS p174	Visual Impact	Materials used in reinstatement of roads, pathways, and walls should be consistent with existing surfaces and materials.		OPW	2018
12.5.2	EIS p174	Visual Impact Visual Impact	surfaces and materials. Construction work to be carried out speedily to minimise the impact on road users.	As per CEMP	OPW	2018 Ongoing
			Where removal of vegetation cannot be avoided it should be replaced in approximately the same	гара сан		
12.5.3	EIS p174	Visual Impact / Biodiversity	location with like size and type plants.		OPW/Ecologist	2018
12.5.3	EIS p174	Visual Impact	All flood defence embankments should be rounded off at the top with a shallow grade and grassed.		OPW	2018
12.5.3	EIS p174	Visual Impact	Stonework on new walls to be consistent with the stone already evident in the river walls.		OPW	2018
12.5.3	EIS p174	Visual Impact	Materials used in reinstatement of roads, pathways, and walls should be consistent with existing surfaces and materials.		OPW	2018
12.5.3	EIS p174	Visual Impact / Biodiversity			OPW	2018
12.0.0	E13 p174		Replacement of any planting removed during construction.		OF W	2016
	T T	Material As	sets / Traffic			
13.4	EIS p180	Traffic Management	Liaison with Transport Infrastructure Ireland (TII) to minimise the impacts upon the local traffic and transportation networks.	As per CEMP	OPW	Onging
			The deliveries to and from site will be undertaken to a programme agreed with the Contractor prior to works commencing to minimise disruption to the roads network particularly during times of peak	·		
13.4	EIS p180	Traffic Management	traffic flow. The Design Team / Contractor will liaise with relevant local authority, TII and residents groups and	As per CEMP	OPW	Onging
			The Design Team? Contractor will liaise with relevant local authority, Th and residents groups and			
			advance notice will be given to the general public through local media before any road closures take			
13.4	EIS p181	Traffic Management	place. All possible service diversions should take place in advance of road closure for construction of the culvert.	As per CEMP	OPW	Onging
13.4	EIS p181	Traffic Management Traffic Management	place. All possible service diversions should take place in advance of road closure for construction	As per CEMP	OPW OPW	Onging 2018
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13.4	EIS p181	Traffic Management Cultural	pilace. All possible service diversions should take jake in advance of road closure for construction. The advance warming signs of the new road ramp will be designed in accordance with Chapter 6, Temporary Traffic Measures and Steps for Plastderious, of the Traffic Signs Manual. **Notings** The National Manuments Acts 1920-1994 require that in the event of the discovery of architectory of the Chapter of	As per CEMP archaelogical licences are being applied	OPW	2018
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