Project: Templemore Flood Relief Scheme

Rev: 0.0 Date last Updated: 28/06/2019

Compliance Report for the Schedule of Environmental Commitments						
EIS / NIS Reference	EIS / NIS Pg. No.	Impact	Specific Mitigation Measure	Specific Implementation Action	Responsibility	Status
LIS / INIS RETERENCE	LI3 / NI3 Fg. NO.	ппрасс	Specific Willigation Weasure	Specific Implementation Action	Responsibility	Jiaius
		Human Beings/				
5.4.1		Economic	Access ramps will be constructed on some of the proposed embankments to maintain access to properties and land.		OPW	2019
6.5.1	EIS p71	Ecology (terrest	nat and Aquatic) The edge of the proposed embankment beside Templemore Lake will be a minimum of 5m from the boundary. No material will be stored within this buffer zone.		OPW/ Ecologist	2019
0.0.1	LIO p/1			Fox den has been identified on site no licencsing	of the Ecologist	1015
6.5.2	EIS p71	Birds / Biodiversity	Hedgerow, tree-line and woodland vegetation that is to be retained will be clearly marked and fenced off to avoid accidental damage during excavations and site preparation. No materials should be stored within 5m of retained hedgerows/trees/woodland.	requirements however as a matter of good environmental practice this location will not be interefered with.	OPW/ Ecologist	Ongoing
6.5.2 and 7.5.2	EIS p71,95	Environmental	The proposed Site works method statements will be reviewed and monitoring will be conducted by	As per CEMP	OPW/ Ecologist	
6.5.2 and 7.5.2	EIS p/1,95	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).	Otter survey conducted along existing river channel	OPW/ Ecologist	Ongoing
	FIO -74		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 application to the NPWS, if required.	4	OPW/ Ecologist	Out the
6.5.3	EIS p71	Otters	application to the New S, it required.  The Mall River corridor will not be blocked off especially at night.	As per CEMP	OPW/ Ecologist	Ongoing
			Loss of potential forage habitat (riparian woodland and sections of hedgerow) during construction will be compensated by native tree planting, the mix of which will be similar to existing tree/shrub			
			species.  Following the construction phase, replanting 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,			
6.5.3 and 6.5.4	EIS p71, 72	Birds / Biodiversity	natural re-colonisation is preferable.		OPW/ Ecologist	2019
			It is recommended that woody vegetation removal be undertaken <u>outside</u> of the main bird nesting period which begins on March 1 <sup>st</sup> and continues until August 31 <sup>st</sup> . A licence is generally required			
6.5.4	EIS p72	Birds / Biodiversity	from the National Parks and Wildlife Service under the Wildlife Acts 1976 and 2000 if any habitat (e.g. scrub, trees, hedgerows) to be removed is known to contain nesting birds.	No licence required- confirmed with NPWS.	OPW/ Ecologist	2019
			The 'old' channel is to be modified to ensure that fish 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	2019
			(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 works outside the window of October to May. Brook lampreys spawn in the spring and early	Consultation with IFI with regard to the downstream		
7.5.2 and 3.10.3.2	EIS P94, NIS p31	Aquatic species	summer months and the timing of works should also take this species into account.	existing channel widening and deepening	OPW/ Ecologist	Ongoing
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 Mall River.		OPW	Ongoing
7.5.2 and 3.10.3.3	EIS P94, NIS p31	Environmental	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 approved by both the IFI and the NPWs prior to any works taking place.	Consultation with IFI ongoing.	OPW	Ongoing
7.5.2 and 3.10.3.3	EIS P94, NIS p31	Aquatic species / Biodiversity	A translocation plan will need to designed and implemented prior to water being diverted into the new channel.	Constitution with it ongoing.	OPW	2019
7.0.2 and 0.10.0.0	210 1 04, 1410 por	Aquate species y broaders any	The fisheries board documents "Maintenance and protection of the inland fisheries resource during road construction and improvement works. Requirements of the Southern Regional Fisheries		0.11	1019
7.5.2 and 9.5.1 and 3.10.3.3	EIS p94,127, NIS p31	Fish	Board* (Kilfeather, 2007) and 'Requirements for the Protection of Fisheries Habitat during Construction and Development Works at River Sites' (Murphy, 2004) would also be followed where relevant.		OPW/ Ecologist	Ongoing
7.0.2 and 0.0.1 and 0.10.0.0	210 po4, 127, 140 po1	101	TOTAL SEASON.	A silt fence has been erected around spoil deposition	Of W. 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.  All necessary measures will be taken to prevent the release of oil, fuels or other pollutants into the	area.	OPW/ Ecologist	Ongoing
7.5.2	EIS p95	Pollution	Mall River.  The works will be carried out during dry weather and halted during heavy rainfall to reduce	As per CEMP	OPW/ Ecologist	Ongoing
7.5.1 and 9.5.1	EIS p93,127	Siltation	suspended solids in the river.  Spoil and removed vegetation material from the river is to be stored no less than 5m back from the		OPW/ Ecologist	Ongoing
7.5.2 and 9.5.1	EIS p95,127	Siltation	river and vegetation within this 5m buffer zone is to be retained, in order to reduce the run-off of suspended solids back into the water course.		OPW/ Ecologist	Ongoing
7.5.2	EIS p95, NIS p32	Invasive species / biodiversity	The machines being used to excavate the river may contain fragments of exotic invasive flora and therefore they will need to be cleaned at the start of the excavation of the river.	As per CEMP	OPW/ Ecologist	Ongoing
1.3.2	E13 p30, N13 p32	invasive species / biodiversity	Particular care will be taken when working near mature trees in order to protect roots extending into the works site. Mature trees will be retained and scrub and hedgerow will be retained where	AS per CEWIP	Of W. Ecologist	Origonia
7.5.2	EIS p95	Birds / Biodiversity	possible.  It will be important to ensure that the proposed weir is designed to be suitable for passage of brook	As per CEMP	OPW/ Ecologist	Ongoing
7.6	EIS p96	Aquatic Species	lampreys and white-clawed crayfish. A suitable solution would be to backfill the downstream end of the weir to create a 'rock ramp'.		OPW	2019
3.10.2.1	NIS p28	Fish	The flood channel will be designed to have a consistent gradient with no areas of pooled water where fish may become trapped after a flood event.	As per CEMP	OPW	Ongoing
		Soils and		Siltation pond has been constructed as per the		
8.5.1	EIS p115	Siltation	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 site'.	environmental officers instructions, suspended solids monitoring ongoing.	OPW	Ongoing
8.5.1	EIS p115	Soil	Planned construction works will be carried out with the minimum disturbance of soils.  To minimise any impact on the underlying subsurface strata from material spillages, all oils,	Silt curtain installed where appropriate	OPW	Ongoing
8.5.1	EIS p115	Pollution	solvents and paints used during construction will be stored within specially constructed dedicated temporary bunded areas.  Rerussing or construction vertices and the adultion or hyporatic bits or hubricants to vertices, 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	0
		,	A detailed condition survey should be conducted on properties within 5m of the diversion prior to			Ongoing
8.5.1	EIS p115	Socio / Economic	and post construction.  The maintenance of the embankment should follow the framework and principles set out in	As per CEMP	OPW OPW	Ongoing
8.5.1	EIS p115	Mainteance Wa	'Management of Flood Embankments, A good practice review' (DEFRA/EA, 2007).	As per CEMP	OPW	2019
			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			
9.5.1	EIS p126	Pollution	guard against potential accidental spills or leakages. All equipment and machinery will have regular checking for leakages and quality of performance.	As per CEMP	OPW	Ongoing
9.5.1	EIS p126	Siltation	All potential run-off is to be diverted through appropriate settlement tanks/grit traps.  The river channel works will be carried out during dry weather and halted during heavy rainfall	As per CEMP.	OPW	Ongoing
			events to reduce suspended solids in the river and flowing to other parts e.g. the River Suir. Spoil and removed vegetation material from the river is to be stored no less than 5m back from the river			
9.5.1	EIS p127, NIS p31	Siltation	and vegetation within this 5m buffer zone is to be retained, in order to reduce the run-off of suspended solids back into the watercourse.  Paying shapes mistageness will be based on authorse from the Paying Backets.	As per CEMP	OPW/ Ecologist	Ongoing
9.5.2	EIS p127	Fish	Routine channel maintenance will be based on guidance from the Regional Fisheries Board Guidelines (Murphy, D.F, 2004) and the Fishery Guidelines for Local Authority works (1998) where appropriate.	As per CEMP	OPW	2019
9.5.3	EIS p127	Pollution	Strict monitoring of all potential polluting materials used will be maintained.	As per CEMP	OPW	Ongoing
		Noise and				
			The construction team will ensure that all plant items used during the construction phase will comply with standards outlined in European Communities (Construction Plant and Equipment) (Permissible Noise Levels) Regulations (1990). The miligation measures are outlined in BS5228:			
10.6.1	EIS p138	Human Health	Noise Control on Construction and Open Sites (2009), which offers detailed guidance on the control of noise from construction activities.		OPW	Ongoing
			Night time working will typically not occur, but there is the unlikely possibility that there may be a necessity to continue to operate generator, pumps or other equivalent machinery at a number of			
			locations, where excavations etc may cause activity to remain in one location for a longer period of time. On these infrequent occasions, should they arise at all, screening and enclosures can be utilised. For maximum effectiveness, a screen should be positioned as close as possible to either			
40.04	E10 -40-	W	the noise source or receiver. The screen should be constructed of material with a mass of >7kg/m2 and should have no gaps or joints in the barrier material. This can be used to limit noise impact to any noise sensitive receptors, if required by agreement with the local authority.		OPW	G
10.6.1	EIS p138	Human Health	Appoint a site representative responsible for matters relating to noise, and establish channels of		OPW	Ongoing
10.6.1	EIS p139	Human Health	communication between the contractor / developer, local authority and resident i.e. for notification of requirement of night works, should this be required.		OPW	Ongoing
10.6.1	EIS p139	Human Health	Locate of noisy plant as far away from sensitive receptors, as permitted by site constraints.  Noise and vibration monitoring works should be carried out during the construction phase to ensure		OPW	Ongoing
10.6.1	EIS p139	Human Health	adherence to the guidelines values for noise and vibration.		OPW/TOBIN	Ongoing

Jun-19

Templemore Flood Relief Scheme

Rev: 0.0 Date last Updated: 28/06/2019



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10   10   10   10   10   10   10   10	Con	npliance Rep	ort for the Schedu	le of Environmental Commitments				
10   10   10   10   10   10   10   10	EIS / NIS Reference	EIS / NIS Pg. No.	Impact	Specific Mitigation Measure	Specific Implementation Action	Responsibility	Status	
11	10.6.1	EIS p139	Human Health	carried out in accordance with the limit values as set out in Table 10-7 of the EIS at the most		OPW	Ongoing	
1.5   1.5		1	Air and	Climate				
A				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 that has the potential to give rise to fugitive dust may be regularly watered, as appropriate, during				
10   10   10   10   10   10   10   10	11.5	EIS p156	Human Health				Ongoing	
Ministry	11.5	EIS p156	Human Health	Environmental Management Plan (CEMP)	As per CEMP	OPW	Ongoing	
1-12   19-20	11.5	EIS p157	Human Health	enforced rigidly. On any un-surfaced site road and on hard surfaced roads that site management dictates speed shall be restricted to 20 km per hour	As per CEMP	OPW	Ongoing	
Page	44.5	F10 -4F7	11 UM	minimise exposure to wind. Water misting or sprays shall be used as required if particularly dusty	4	ODM	O	
Test				In periods of dry weather when dust emission would be greatest, a road sweeper, which would also	·			
1921   1921   1921   1922   1924	11.5	EIS p157			As per CEMP	OPW	Ongoing	
15   15   15   15   15   15   15   15		1	Landscape and	d Visual Impact				
Part	12.5.1	EIS p173	Visual Impact	Design ramps with gradual slopes and appropriate materials in order to minimise visual impact.		OPW	2019	
Sept	12.5.1	EIS p174	Visual Impact	Use materials, pointings and finish to match the existing walls.		OPW	2019	
10.5   10.5	12.5.1	EIS p174	Visual Impact	The flood defence embankments should be rounded off at the top with a shallow grade and softened with a seed mix to match the existing groundcover vegetation/grass.		OPW	2019	
Second Content				The footprint for the embankment within the park should be designed to protect existing mature				
Sept			Birds / Biodiversity		Pat suppose concluded			
151	12.5.1	EIS p174			Bat surveys concluded	OPW	2019	
Despt   Desp	12.5.1	EIS p174	Birds / Biodiversity	type plants.		OPW	2019	
15.5 Gig FM Visual Impact 15.5 Gig FM Visual	12.5.1	EIS p174	Birds / Biodiversity	r-rowner new native planning in the vicinity of the weir where existing planting will be removed during construction.		OPW	2019	
The Comment of the Co	42.52	EI0 6474	Visual Impa	Potential visual impact can be minimised by removing the least amount of existing vegetation	As not CEMP	ODIM	Ongoir-	
1922 Stig FM Visit Interest Policy Process of the Control of Stig FM Visit Interest Policy Process of the Control of Stig FM Visit Interest Policy Process of the Control of Stig FM Visit Interest Policy Process of the Control of Stig FM Visit Interest Policy Process of the Control of Stig FM Visit Interest Policy Process of the Control of Stig FM Visit Interest Policy Process of the Control of Stig FM Visit Interest Policy Process of Stig FM V				Route of diversion should follow any existing field boundaries in order to minimise any severance of				
10.5   Clip 17.1   Value Impart planetary (Company of the Teach and 2.0 or completion control control of the Company of the	12.5.2	EIS p174	Visual Impact	land/properties.	As per CEMP	OPW	Ongoing	
15.2 155   155   175   Valual impact	12.5.2	EIS p174	Visual Impact/ Biodiversity	location or nearby, and to the same size, on completion of construction works.		OPW	2019	
19.5.3 (Big 174 Votar Impact   Roberton   Vision   Vision Impact   Roberton   Vision   Vision Impact   Roberton   Vision   Vision	12.5.2	EIS p174	Visual Impact	Materiais used in reinstatement of roads, pathways, and wais should be consistent with existing surfaces and materials.		OPW	2019	
19.5.3 (Big 174 Votar Impact   Roberton   Vision   Vision Impact   Roberton   Vision   Vision Impact   Roberton   Vision   Vision		F10 - F1						
19.5.1 (Big g174 Vest largest / Embourty). All food defined embourhealth state and by prefix and solding particular of the first part of a policy of the first part of the first part of the property of the first part of the first	12.5.2	EIS p174	Visual Impact		As per CEMP	OPW	Ongoing	
19.5.5   Elig p174   Visual Impact   Bioreack on new walls to bit consistent with 6 bits consistent with 6 bits consistent with 6 bits consistent with 6 bits of 200   200	12.5.3	EIS p174	Visual Impact / Biodiversity	Where removal of vegetation cannot be avoided it should be replaced in approximately the same location with like size and type plants.		OPW/Ecologist	2019	
12.5.3 Bit g174 Visual Impact Meaning and minimals and mi	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	2019	
12.5.3 Bit g174 Visual Impact Meaning and minimals and mi								
Section   Performance   Perf	12.5.3	EIS p174	Visual Impact				2019	
13.4   Ell pit 80   Traffic Management   Traffic	12.5.3	EIS p174	Visual Impact	surfaces and materials.		OPW	2019	
13.4 EB pt 100 Traffic Management Processor Services of the scale staffs and processor Services staff and processor Services of the scale staffs and processor Services staff and processor Services s	12.5.3	EIS p174				OPW	2019	
13.4 Eli p180 Traffic Management De delicario to and from alle will be underlained to approache governous designation protection of the posterio protection			Material As:					
13.4 EIS p180 Traffic Management statistic from the first statistic fro	13.4	EIS p180	Traffic Management	transportation networks.	As per CEMP	OPW	Ongoing	
the Design Team Contractor will be as white relevant local authority. Till and residents groups and abstraction control will be place by the general pack in register place and make the place. All possible service developes should be place in software of road closure for control.  13.4 Ell's p181 Traffic Management  The advance warming sign of the new read range will be designed in accordance with Chapter B.  Traffic Management  The advance warming sign of the new read range will be designed in accordance with Chapter B.  Traffic Management  The advance warming sign of the new read range will be designed in accordance with Chapter B.  Traffic Management  The National Mountembs Acts 1900-1944 require that in the event of the discovery of archaeological flower residence and dispatch for the factor of the software of the software of the software and dispatch for the factor of the software of the software and dispatch for the factor of the software of the software and dispatch for the factor of the software of the software and dispatch for the factor of the software and dispatch for the software	13.4	FIS n180	Traffic Management	to works commencing to minimise disruption to the roads network particularly during times of peak	As ner CEMP	OPW	Ongoing	
Size   Els pites   Traffic Management   place. A possible service devention should take glace in advance of road closure for construction   As per CTMP   OPW   Organia	10.4	Liopioo	Trutte Munigerien	The Design Team / Contractor will liaise with relevant local authority, TII and residents groups and	As per centi	311	Oligonia	
The advance warming signs of the new road ramp will be designed in accordance with Chapter 8, Tompoury Findle Measures and Egypt of Problems, of the Findle Signs Manual.  Collect Medical Propoury Findle Measures and Egypt of Problems, of the Findle Signs Manual.  Collect Medical Propoury Findle Measures and Egypt of Problems, of the Findle Signs Manual.  Collect Medical Propoury Findle Measures and Egypt of Problems, of the Findle Signs Manual.  Collect Medical Propoury Findle Measures and Egypt of Problems, of the Findle Signs Manual.  Collect Medical Propoury Findle Measures and Egypt Medical Propoury Medical Propoury Medical Propoury Findle Measures and Egypt Medical Propoury Medical Propoury Findle Measures and Egypt Medical Propoury Medica		F10		place. All possible service diversions should take place in advance of road closure for construction		OTH		
Cilibrati Refining  Cilibrati Refining  The National Monuments Acts 1900-1904 require that in the worst of the discourse of the Control of th	13.4	EIS p181	Traffic Management		As per CEMP	OPW	Ongoing	
The National Mountain Act 1920 1994 require that in the event of the discovery of the part of the properties of Arts, Heritage and Gestlactin (DAKS) and the National Management Plan (DAKS) and the National Management Plan (DEMP) and the National Management Plan (DEMP) and inform on alle personnel — where there are altered because for the surface of the National Management Plan (DEMP) and inform on alle personnel — where there are altered because of the surface of the	13.4	EIS p181	Traffic Management	Temporary Traffic Measures and Signs for Roadworks, of the Traffic Signs Manual.		OPW	2019	
aschaeological finds or remains that the relevant authorities, the National Mourements Service of the Departments of Aris, Heritage and Education (DAPS) are constructed by the National Mouraments Service of the DAPS. In the event that archaeological premate are bound during the Construction Service of the DAPS. In the event that archaeological premate are bound during the Construction Service of the DAPS. In the event that archaeological premate are bound during the Construction Service of the DAPS. In the event that archaeological premate are bound during the Construction Service of the DAPS. In the event that archaeological premate are bound during the Construction Service of the DAPS. In the event that archaeological premate are bound during the Construction Service of the CAPS.  Archaeological monitorior;—in seesa of moderate advantage agreement of the Service of the CAPS. In the event that archaeological proteins demand to the service of the CAPS. In the event that archaeological proteins demand to the service of the CAPS. In the event that archaeological proteins demand causion, to ensure that archaeological deposts are identified as early as possible, thereby ensuring that any loss for the archaeological deposts are identified as early as possible, thereby ensuring that any loss for the archaeological deposts are identified as early as possible, thereby ensuring that any loss for the archaeological deposts are identified as early as possible, thereby ensuring that any loss for the archaeological deposts are identified as early as possible, thereby ensuring that any loss for the archaeological deposts are identified as early as possible, thereby ensuring that any loss for the archaeological deposts are identified as early as possible, thereby ensuring that any loss for the archaeological deposts are identified as early as possible, thereby ensuring that archaeological deposts are identified as early as possible, thereby en			Cultural					
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Moruments Service of the DAHC, in the event that archaeological remains are found during the construction with a mortal control of the contro	14.6.1	EIS p220	Archaelogy	be notified immediately.	for as is required.	OPW/ Archaeologist	Ongoing	
Archaeological monitoring – in areas of moderate archaeological potential, excavations associated with construction which and ir to facilitating access to the construction site and if or stimping areas  As per CEMP  OPW/ Archaeologist  Ongoing  Archaeological selection in areas of high archaeological potential demands caution, to ensure that archaeological selection is areas of high archaeological potential demands caution, to ensure that archaeological record is minimised. Under a monitoring renit, an archaeologist will observe normal construction works, usually under which a monitoring renit, an archaeologist will observe normal construction works, usually under which a monitoring renit, an archaeologist will observe normal construction works, usually under which a monitoring renit, an archaeologist will observe normal construction works, usually under which a construction schedule for a characteristic or the National Monitorin works, usually understant brucket, which makes in more efflicult to identify archaeological edeposits, buring a scheeological testing a licence or the National Monitorin works, usually understant brucket, which makes are more difficult to identify archaeological deposits and emission of the archaeological schedule for a characteristic or the National Monitorin works, usually understant or the archaeological deposits and minimal loss to the archaeological deposits and the archaeological deposits and the loss of the loss of the archae				Monuments Service of the DAHG, in the event that archaeological remains are found during the				
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Jun-19

Project: Templemore Flood Relief Scheme

Rev: 0.0 Date last Updated: 28/06/2019 OPW

Compliance Report for the Schedule of Environmental Commitments						
EIS / NIS Reference	EIS / NIS Pg. No.	Impact	Specific Mitigation Measure	Specific Implementation Action	Responsibility	Status

Jun-19