

15. SCHEDULE OF MITIGATION MEASURES

All mitigation measures for the proposed Greenway are set out in the relevant chapters of the EIAR submitted as part of the assessment.

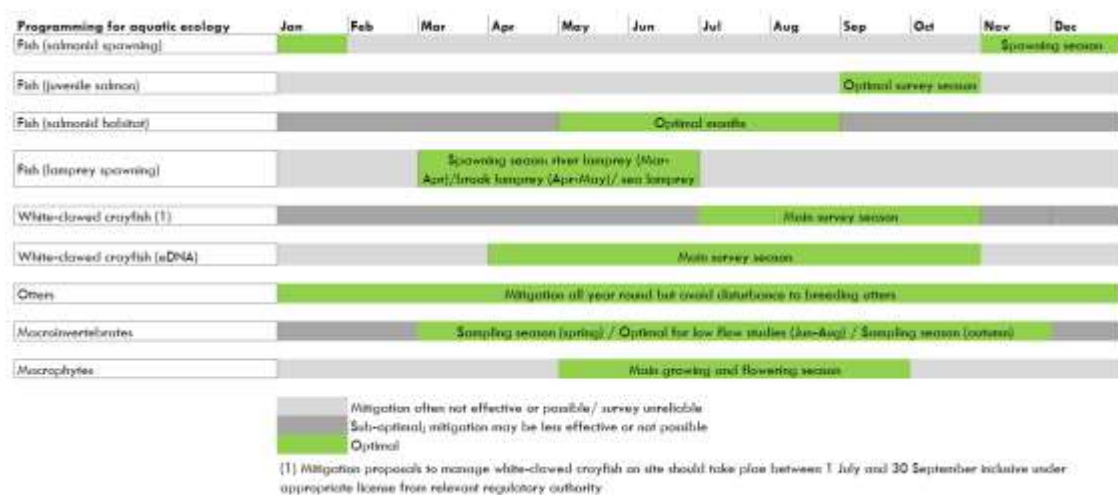
These mitigation measures that will be implemented during the various phases are outlined in Table 15.1. The mitigation measures for the construction phase have been grouped together according to their environmental field/topic and are presented under the following headings:

- Construction management
- Flora and Fauna
- Soils, subsoils and bedrock
- Water
- Air quality/Dust
- Climate
- Noise and Vibration
- Landscape and visuals
- Cultural Heritage
- Traffic

The mitigation and monitoring proposals are set out in separate tables in the CEMP (EIA Part 3 - Appendices) for clarity and tracking of the pre-commencement survey requirements.

The **Mitigation timing - ecological calendar** below will be applied and followed to ensure protection of habitats and species during construction and operational phases of the greenway. In general, the construction works should be planned during the 'green' periods in the calendar year, as long as appropriate mitigation measures are implemented. The exception to this is Fish (salmonoid spawning) because foreshore works (including preparatory work) beside all watercourses supporting salmonids shall be undertaken from May to October (inclusive) and in consultation with Inland Fisheries Ireland (IFI) to avoid accidental damage or siltation of spawning beds.

Mitigation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Badger (sett closure)	License exclusion under extenuating circumstances						Badger exclusion licensing season						
Bats (works to hibernation roosts)					Under license								
Bats (works to maternity roosts)	To commence only when breeding has finished and under license									To commence only when breeding has finished and under license			
Reptiles			Habitat manipulation - March to September; Translocation - April to September										
Amphibians (newts)													
Nesting birds	Vegetation clearance									Vegetation clearance			
Others	Mitigation all year round but avoid disturbance to breeding others												
		Mitigation often not effective or possible											
		Sub-optimal; mitigation may be less effective or not possible											
		Optimal											



Where particular monitoring proposed is considered to be a measure of mitigation, it has been included in the consolidated table for all mitigation measures. The mitigation proposals in the below format provides an easy to audit list that can be reviewed and reported on during the proposed works.

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
Pre-Commencement Phase				
MM.1	EIAR Ch 5	During construction of the proposed development, all staff will be made aware of and adhere to the Health & Safety Authority's 'Guidelines on the Procurement, Design and Management Requirements of the Safety, Health and Welfare at Work (Construction) Regulations 2013 (Updated)'. This will encompass the use of all necessary Personal Protective Equipment and adherence to the site Health and Safety Plan.		
MM.2	EIAR Ch 6	A pre-construction invasive species survey will be undertaken at the site of the proposed scheme.		
MM.3	EIAR Ch 6	Prior to any works a multi-disciplinary walk over survey will be undertaken by a suitably qualified ecologist to identify classified and protected habitats and species within the study area of the proposed scheme.		
MM.4	EIAR Ch 6	Prior to construction, dedicated surveys for bats, birds, badgers, otters and invasive species will be undertaken by qualified ecologists to identify potential signs and sights of these species as well as their habitats.		
MM.5	EIAR Ch 6	It is recommended that prior to any works commence, a target lamprey and white-clawed crayfish should be undertaken at the Mill Race and in the vicinity of any proposed riverbank works.		
MM.6	EIAR Ch 6	All personnel involved with the project shall be informed of the requirement for protection of designated habitats including aquatic environment (Lower River Shannon SAC) and best practice methodologies to be employed via toolbox talks or formal presentation by the ECoW		
MM.7	EIAR Ch 6	<p>The following measures will be put in place to promote biodiversity through the construction and operation of the proposed development:</p> <ul style="list-style-type: none"> ▪ Trees scheduled for retention will be protected from damaging construction activities and where possible vegetation will be replaced and reinstated. Semi-mature trees are proposed to be planted along the Greenway. ▪ Treelines and hedgerows shall be retained where possible. ▪ To avoid impacting nesting sites, the vegetation removal within the defined working area will not be carried out during the peak bird nesting season of March to August, prior to the onset of works. 		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
MM.8	EIAR Ch 12	During the site preparation archaeological mitigation measures will be applied to ensure that an adequate record is made of the unknown cultural heritage resource were encountered within the impact footprint. A programme of Archaeological testing will be undertaken in advance of construction within the development's footprint.		
MM.9	EIAR Ch 13	A Traffic Management Plan (TMP) will be developed in advance of the construction phase incorporating road disruptions, diversions and/or closures where necessary.		
MM.10	EIAR Ch 13	A Construction Environmental Management Plan (CEMP) will be prepared and implemented by the nominated contractor in consultation with LCCC and their Environmental Clerk of Works.		
Construction Management				
MM.11	EIAR Ch 4	A temporary construction compound will comprise the following: <ul style="list-style-type: none"> ▪ Segregation of worksite and non-worksite/public roadside vehicle areas to prevent cross contamination of invasive species and construction arisings (i.e. soils); ▪ temporary site offices, portaloo toilets, lighting, canteen and facilities for staff and car-parking areas; ▪ storage areas for construction materials; ▪ bunded containment areas for plant refuelling, maintenance, washing and for the storage of fuels, oils, lubricants, solvents and site generators; ▪ a dedicated waste storage area for any construction waste generated. Skips or bays will be provided for recyclable material; ▪ wheel wash area for construction and delivery vehicles or road cleaning to be carried out as an alternative; and ▪ a designated wash out tank for wash out of concrete trucks following concrete pours. 		
MM.12	EIAR Ch 5	A traffic management plan will be prepared and implemented for the duration of the works in order to ensure that any impacts on traffic mobility are minimised.		
MM.13	EIAR Ch 13	Good communication between the Works Contractor's Public Liaison Officer and the landowners/stakeholders during the construction phase will prevent undue disturbance		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		due to noise, dust and to minimise difficulties caused by the restrictions of access to some roads.		
MM.14	EIAR Ch 6	An ecology calendar for surveys and mitigations will be made available to project manager, site manager and ECoW to make sure construction activities are undertaken during the right periods to avoid impacts on the local fauna and flora.		
Flora and Fauna				
MM.15	EIAR Ch 4	Reinstatement of the temporary working area and construction compounds will involve ripping, levelling, raking, reuse/reinstate subsoil and topsoil which will be seeded and spread to depth of 300mm along the temporary working area.		
MM.16	EIAR Ch 6	Clearance of vegetation should be undertaken as early as possible to prevent bird nesting.		
MM.17	EIAR Ch 4/ Ch 6	A tree planting scheme will be carried out during the months of August-November. The tree planting will be carried out as follows: <ul style="list-style-type: none"> Isolation of works area; Any waste generated will be removed from the site and disposed in accordance with the Waste Management Regulations. 		
MM.18	EIAR Ch 6	The following mitigation measures will be considered for species that can potentially be found within the area of the proposed works: <ul style="list-style-type: none"> Avoid badgers entering the site or spoil heaps; Visual inspection of trees that might need to be removed to facilitate construction works, to identify potential bat roosts; Reconnection of linear features for commuting corridors; Lighting required for construction will be as low a wattage as possible; Noise limits, noise control measures, hours of operation and selection of plant items will be considered in relation to disturbance of birds; Generators or other sources of noise, vibration and emissions should not be located with 50m of the existing woodland habitat throughout the site, when possible. Bank slopes along River Shannon should be protected, ensuring riparian vegetation is always available for otters. 		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		<ul style="list-style-type: none"> ▪ Otter holts must be protected during construction with a minimum exclusion zone of 150m. 		
MM.19	EIAR CH 6	<p>A suitable qualified Ecological Clerk of Works (ECoW) shall be appointed for part time attendance for the full duration of the works and will supervise all aspects of the construction of the Greenway.</p> <ul style="list-style-type: none"> ▪ The ECoW will hold a minimum University degree in Environmental Science, (NFQ Level 8); Minimum of 5 years' post-graduate experience in ecological assessment, appraisal techniques and mitigation monitoring; ▪ The ECoW will be responsible for biodiversity monitoring elements and providing toolbox talks; and ▪ The ECoW will be responsible for monitoring water quality throughout the works duration. Alarmed sondes will be employed to measure turbidity in the main channel upstream and downstream of the works area during the construction stage. Sondes will be employed within the River Shannon to determine a baseline Nephelometric Turbidity Unit (NTU) value. During the construction period, alarms will trigger where there is a 20% difference between the NTU value recorded in the upstream and downstream Sondes when NTU is above its baseline value. All works will cease immediately until the source is identified and rectified (if caused by the construction works). If the increase is not attributed to the construction works, works will proceed. 		
MM.20	EIAR Ch 6	<p>General protective measures will be carried out in areas where there are trees with Potential Roosting Features for bats:</p> <ul style="list-style-type: none"> ▪ Any trees requiring removal to facilitate construction works must be subject to a visual inspection to identify potential for bat roosting. ▪ Linear features that act as corridors such as hedgerows and treelines should be reconnected where possible using native species. ▪ Lighting will be avoided and/or as low a wattage as possible. 		
MM.21	EIAR Ch 6	<p>All Himalayan balsam and Giant Hogweed within and surrounding the site of the proposed works will be subject to the Invasive Species Management Plan. The following measures will be implemented in order to mitigate against the risk of moving contaminated soil:</p>		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		<ul style="list-style-type: none"> A pre-construction survey for invasive species will be conducted at the earliest stage possible to update and inform on the status of invasive plant species in or near the works area. In relation to invasive species located on site to date, it has been advised in the ISMP to carry out advanced treatment of identified stands prior to the commencement of works. The treatment and control of invasive alien species will follow Guidelines for the Management of Noxious Weeds and Non-Native Invasive Plant Species on National Roads (NRA 2010), and any other best practice guidance which may become available in the interim. All plant machinery and construction related vehicles arriving and leaving site will be checked for the presence of plant material e.g. leaves roots and rhizomes from non-native invasive species. Installation of a dedicated footwear and vehicular wheel wash down facility, into a contained area by the entrance and exit points of the construction site and in the biosecurity zones, away from drains and watercourses. Vehicles leaving the site to be inspected for any plant material and will be washed down into a dedicated wastewater contained storage area then tinkered off site to a licenced waste facility. Where there is potential for cross-contamination on site (machinery or personnel moving from one biosecurity zone to another or from the biosecurity zone to other areas on site), consideration should be given to designating vehicles or machinery to specific sites to prevent spread. Contaminated material will be stockpiled off site. The area will be clearly marked, lined with a root barrier membrane and be of sufficient size to hold all the material to be excavated. Seeds may survive in the excavated material for up to 18 months. A two-year programme of control, which will extend beyond the works period will be required. For any material entering the site, including all fill material, the supplier must provide an assurance that it is free of non-native invasive species. 		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		<ul style="list-style-type: none"> Should any invasive plant species be encountered, the infested areas will be clearly demarcated accounting for potential underground rhizome spread, creating an exclusion zone. Ensure all site users are aware of invasive species management plan and treatment methodologies. This can be achieved through “toolbox talks “before works begin on the site. Adequate site signage should be erected in relation to the location and management of non-native invasive plants relative and relevant to the works area. 		
MM.22	EIAR Ch 8	To reduce disturbance to fish, works/ construction activities should be confined to standard daylight hours.		
Soils, subsoils and bedrock				
MM.23	EIAR Ch 7	Any excavated topsoil will be mounded alongside where the soil is excavated. Mounds will be fenced off with silt fencing to prevent run off. Soil mounds will be seeded.		
MM.24	EIAR Ch 7	Any excavated subsoil will be mounded alongside where the soil is excavated. Mounds will be fenced off with silt fencing to prevent run off. Soil mounds will be seeded.		
MM.25	EIAR Ch 7	Where it is necessary to remove existing concrete or bedrock to facilitate construction of the proposed development, the material shall be removed and transported to the closest temporary construction compound for breaking and storage. It shall be reused during construction of the haul roads and as a base for the greenway path.		
MM.26	EIAR Ch 7	Works undertaken on the banks should be fully consolidated to prevent scour and run off of silt. Consolidation shall include use of protective and biodegradable matting (coirmesh) on the banks and sowing of grass seed on bare soil.		
MM.27	EIAR Ch 7	<p>In order to reduce the risk of soil contamination as a result of accidents, spills, leaks or flooding the following measures will be implemented:</p> <ul style="list-style-type: none"> Fuels, chemicals, liquids and solid wastes will be stored on impermeable surfaces. Regular inspections will be implemented. Plant refuelling shall be undertaken on hard standing at designated areas, and not within 30 metres of any watercourse, in accordance with best practice guidelines. 		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		<ul style="list-style-type: none"> Plant shall be inspected regularly for any leaks A lock system will be fitted on all taps, nozzles or valves associated with refuelling equipment All hydrocarbons and other potential contaminants will be stored within suitably constructed bunds in accordance with best practice guidelines. Spill kits will be provided at refuelling areas and at high risk/sensitive areas Large volumes of excavated material will not be allowed to accumulate within the temporary working areas. There will be no storage of materials, machinery or soil in areas that are susceptible to flooding or within 20m of any drain or watercourse. Preferably these will be stored in compound areas. Any contaminated soil if encountered will be stored separately from non-hazardous waste in bunded areas before being collected by an authorised waste contractor and transported to an approved waste facility for treatment and safe disposal 		
Water				
MM.28	EIAR Ch 6	Guidelines for minimising impacts on water quality and fisheries in relation to Construction shall be implemented including, but not limited to, CIRIA C532 "Control of water pollution from construction sites - Guidance for consultants and contractors", Inland Fisheries Ireland guidelines and TII guidelines.		
MM.29	EIAR Ch 6	No abstraction from any watercourses will be permitted to facilitate the works.		
MM.30	EIAR Ch 6	Storage tanks shall have secondary containment provided by means of an above ground bund to capture any oil leakage irrespective of whether it arises from leakage of the tank itself or from associated equipment such as filling and off-take points, sighting gauges, etc., all of which should be located within the bund. Bund specification should conform to the current best practice for oil storage (Enterprise Ireland, BPGCS005).		
MM.31	EIAR Ch 6	Concrete pouring will be planned for dry weather where possible following weather forecast.		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
MM.32	EIAR Ch 8	Sediment barriers such as silt curtains /sediment netting/ fences or silt traps should be used to temporarily trap sediment to prevent sediment transport into the river, at all interfaces of the works area with a waterbody in advance of construction works on the banks of the river.		
MM.33	EIAR Ch 8	Works at Plassey Beach and for the proposed abutment adjacent to Bridge 2 should be undertaken at times of good weather and low flow in the River where there is no potential for the works area to become inundated with water and no potential for significant volumes of surface water runoff from the works area.		
MM.34	EIAR Ch 8	All works undertaken at Plassey Beach and for the proposed abutment adjacent to Bridge 2 should be fully consolidated to prevent scour and run off of silt. Consolidation may include use of protective and biodegradable matting (coirmesh) on the banks and also the sowing of grass seed on bare soil.		
MM.35	EIAR Ch 8	A silt fence should be erected on all sides of the temporary site compounds to prevent any runoff from the perimeter of the compounds.		
MM.36	EIAR Ch 8	<p>To prevent pollution by leakage or spillage of water contaminants:</p> <ul style="list-style-type: none"> There will be no refuelling of machinery near the river channel. Refuelling will take place at designated locations in the temporary construction compound on an impermeable surface at distances of greater than 20 metres from a watercourse. No vehicles will be left unattended when refuelling and a spill kit including an oil containment boom and absorbent pads will be on site at all times. Any fuel that is stored on the site will be in a double skinned, bunded container that will be located within a designated site compound at a location that is removed from the river. All construction materials and plant will be stored in the site compounds. Compounds shall be located on ground that is not prone to flooding, i.e. Flood Zone C areas. The site compounds will be surfaced with a hard standing to prevent generation of mud. A silt fence will be erected on all sides of the compounds to prevent any runoff from the perimeter of the compounds. All vehicles should be regularly maintained and checked for fuel and oil leaks. 		
MM.37	EIAR Ch 8	It is recommended that signage is utilised to identify areas of potential flood risk and advise users not to cycle or walk through water should the river flood, the signage could		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		also recommend users check the Met Eireann flood warnings website https://www.met.ie/warnings/today .		
Air Quality and Dust				
MM.38	EIAR Ch 5	In periods of extended dry weather, dust suppression may be necessary within and around the site to ensure dust does not cause nuisance. Shade cloths will act as dust curtains and they will be installed near watercourses, at locations where excavation works will occur, along construction trenches, and around bridges and culverts to catch any dust arising before it can settle on smaller watercourses and the River Shannon		
MM.39	EIAR Ch 9	Speeds shall be restricted on hard surface roads and vehicles transporting materials with dust potential must ensure that the material is always enclosed or covered with tarpaulin.		
MM.40	EIAR Ch 5	Mitigation measures will be implemented in relation to exhaust emissions during the construction phase switching machinery off when not in use, maintaining all construction vehicles and plant in good operational order and sourcing material which will be required in large volumes such as aggregates locally where possible to reduce potential emissions.		
MM.41	EIAR Ch 9	A record of all dust and air quality complaints will be maintained, along with details of the cause of emissions and the measures implemented to reduce emissions. All records will be made available to Limerick City and County Council.		
MM.42	EIAR Ch 9	The dust mitigation measures put in place will be strictly monitored and assessed throughout the construction phase to ensure their effectiveness as identified in the CEMP.		
Noise and Vibration				
MM.43	EIAR Ch 5	Noise control measures that will be employed include: <ul style="list-style-type: none"> ▪ Selection of plant with low inherent potential for generation of noise and/or vibration. ▪ Erection of enclosures as necessary around noisy processes and items such as generators, heavy mechanical plant or high duty compressors. ▪ Placing noisy/vibratory plant as far away from sensitive properties as permitted by site constraints and the use of vibration isolated support structures where necessary. 		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
MM.44	EIAR Ch 9	<p>It is proposed that various best practices be adopted during construction for the control of noise, including:</p> <ul style="list-style-type: none"> Where noise levels at NSLs are anticipated to exceed the daytime noise criteria, hoarding extending to a height of 2.4 m will be erected at the works boundary between the works area and the NSL. If such measures are installed, the construction operations are expected to meet or be less than the 70 dB LAeq(1hr) criterion. Limiting the hours during which site activities likely to create high levels of noise or vibration are permitted. Establishing channels of communication between the contractor/developer, Local Authority and residents. Appointing a site representative responsible for matters relating to noise. Monitoring typical levels of noise during critical periods and at sensitive locations. 		
MM.45	EIAR Ch 9	<p>The following survey methodology will be employed for attended noise monitoring:</p> <ul style="list-style-type: none"> Measure LAeq, LAMax, LAMin, LA10 and LA90 over a sample period of 15 minutes. Detailed notes will be taken in relation to primary noise sources, weather and prevailing winds. Measurements will be conducted at various locations on a cyclical basis over the course of a typical day. <p>Noise monitoring will be conducted in accordance with ISO 1996: 2007: <i>Acoustics – Description, measurement and assessment of environmental noise</i>.</p>		
MM.46	EIAR Ch 5	Open lines of communication with local residents with regards to work schedules, programme and a reassurance of the temporary nature of the works generating noise and nuisance as well as adhering to agreed hours of construction.		
MM.47	EIAR Ch 9	<p>For control of vibration, the following practices will be adapted during construction:</p> <ul style="list-style-type: none"> Establishing channels of communication between the contractor/developer, Local Authority and residents. Appointing a site representative responsible for matters relating to vibration. 		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		<ul style="list-style-type: none"> Monitoring typical levels of vibration during critical periods and at sensitive locations. <p>Furthermore, a variety of practicable vibration control measures will be employed. These will include:</p> <ul style="list-style-type: none"> Selection of plant with low inherent potential for generation of vibration. Placing of vibratory plant as far away from sensitive properties as permitted by site constraints and the use of vibration isolated support structures where necessary. <p>During the proposed works, vibration monitoring will be conducted during construction activities that may give rise to vibration.</p>		
Climate				
MM.48	EIAR Ch. 10	<p>To mitigate against greenhouse gas emissions, mitigation measures will comprise of:</p> <ul style="list-style-type: none"> Periodic maintenance of construction vehicles and plant, minimising emissions associated to construction machinery; Reuse material from excavation works; Materials for the construction of the greenway will be obtained from local sources. Environmental Product Declarations should be required for construction materials when possible and available to opt for the least carbon intensive materials on the market. Use existing road infrastructure to avoid the construction of new auxiliary roads which will result in an increase of the development's overall carbon footprint. 		
Landscape and Visuals				
MM.49	EIAR Ch 11	Avoidance of trees/vegetation removal: A qualified Arborist to be on site to assist in marking out appropriate locations for temporary compounds, and to determine path alignment in certain locations		
MM.50	EIAR Ch 11	Ground protection measures will be required for temporary construction compounds and Haul routes. A geomembrane and Cellweb are proposed.		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
MM.51	EIAR Ch 11	Avoidance of mature trees will be a requirement for the Works Contractor.		
MM.52	EIAR Ch 11	Special construction methods will be used in areas close enough to Class A and Class B trees, building up the path rather than using excavation techniques.		
MM.53	EIAR Ch 11	Re-planting of removed trees with native Irish species at a ratio of 5:1 new trees for every tree that is removed is proposed along the proposed Greenway.		
Cultural Heritage				
MM.54	EIAR Ch 12	A detailed survey of any walls that will be impacted by the Construction works shall be undertaken by a suitably qualified and experienced archaeologist in order to compile a full record of the extant structures in written, drawn and photographic format.		
MM.55	EIAR Ch 12	Masonry repairs and conservation of the walls will be applied in line with conservation best practice where required. If conservation repairs are not progressed, advanced vegetation removal will be carried out under archaeological/built heritage supervision.		
MM.56	EIAR Ch 12	For works within Zones of Notification, archaeological supervision of vegetation clearance will be needed and pre-construction advance geophysical/topographical surveys & advance archaeological test trenching under licence to National Monuments Service is recommended 12-18 months before construction.		
Material Assets and Traffic				
MM.57	EIAR Ch 13	Construction works will be sequenced so as to avoid unnecessary interruption to road users insofar as is practicable. Any road and lane closures will be timed to minimise the impact to the flow of traffic, and if possible, work will be carried out at off peak times to reduce the impact, particularly on heavy goods vehicles. All residents and interested parties shall be consulted when planning these road closures to optimise the timing. A complete schedule of road closure will be published in advance of the works commencing to facilitate the residents in making alternative arrangements where necessary.		
MM.58	EIAR Ch 13	All possible precautions will be taken to avoid unplanned disruptions to any services during the proposed works. This will include GPR surveys to reconfirm the location of utility infrastructure within the works areas, and the implementation of robust procedures		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		when undertaking works in the around known infrastructure services to prevent impact upon the utility/service.		
MM.59	EIAR Ch 13	Waste management will comply with the provision of the Waste Management Act (1996), associated regulations and the Waste Management Plan prepared in accordance with the "Best Practice Guidelines for the Preparation of Waste Management Plans for Construction and Demolition Projects (2006)". All waste collection records and permits will be kept by the Waste Manager and maintained on site.		
Post-construction/ Reinstatement				
MM.60	EIAR Ch 6	<ul style="list-style-type: none"> Where opportunity exists, enhancement measures may be employed. Bat boxes and bird boxes should be installed on mature trees, overseen by an experienced ecologist. Bug hotels will be constructed using appropriate construction waste material and tree branches/saplings. All plant and machinery will be removed. The adjacent grasslands to the site will be left to regenerate naturally or reinstated to its original condition and site fencing will be removed. Any reinstatement of breaches in hedgerows and tree lines will be carried out in consultation with a suitably qualified ecologist. Local strains of native species shall be planted, and hedge management shall reflect local traditional styles. Riparian habitat will be restored which will provide shading to regulate water temperature and improve water quality through natural filtering processes. A Landscape Plan will be implemented to promote biodiversity net gain in line with the National Biodiversity Action Plan and All Ireland Pollinator Plan. 		
Operation and Maintenance				
MM.61	EIAR Ch 5	A maintenance and monitoring schedule will be put in place by LCCC to ensure that the proposed Greenway is operating to the appropriate design standard. Repairs will be made as necessary.		
MM.62	EIAR Ch 6	The following mitigation measures are proposed to be implemented during the operational phase of the proposed greenway for biodiversity receptors:		

Reference No.	Reference	Mitigation Measure	Audit Result	Action Required
		<ul style="list-style-type: none"> ▪ Maintain native vegetation along the greenway corridor, including regular mowing and pruning, while ensuring that invasive species are controlled. ▪ Use pollinator-friendly plants along the greenway to support local pollinator populations. ▪ Where necessary, restore habitats, particularly along watercourses and riparian zones. ▪ Implement a maintenance programme for bridges and culverts to maintain habitat connectivity and reduce wildlife fragmentation. This will allow for safe movement of species. ▪ Install clear signage that creates awareness for users about wildlife and biodiversity conservation. ▪ Provide adequate waste disposal facilities and ensure regular cleaning and maintenance to prevent litter accumulation. ▪ Continue monitoring and treatment of invasive alien plant species along the greenway. ▪ Where appropriate, install fences or barriers to prevent wildlife from accessing dangerous areas such as roadways or areas with high human activity. ▪ Engage local communities, environmental groups, and stakeholders in the ongoing management of the greenway, raising awareness on protected species and their habitats. 		
MM.63	EIAR Ch 10	<p>To reinforce the importance of the greenway and sustainable travel, the following measures are proposed during the operational phase:</p> <ul style="list-style-type: none"> ▪ Promote the greenway once constructed to ensure large usage and modal shift. ▪ Encourage modal shift from high carbon releasing transport modes to cycling, walking and public transport. ▪ Access to these greenways by public transport and provision of bicycle hire on site can further improve their carbon efficiency by reducing trips by car. 		
MM.64	EIAR Ch 6	A three to five year programme of invasive plant species control will be required to extend beyond the works period.		