A585 Windy Harbour to Skippool Improvement Scheme

TR010035

7.3 Record of Environmental Actions and Commitments

APFP Regulation 5(2)(q)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 7

October 2018

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Infrastructure Planning

Planning Act 2008

The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009

A585 Windy Harbour to Skippool Improvement Scheme

Development Consent Order 201[ ]

RECORD OF ENVIRONMENTAL ACTIONS AND COMMITMENTS

Regulation Number:	Regulation 5(2)(q)
Planning Inspectorate Scheme Reference	TR010035
Application Document Reference	TR010035/APP/7.3
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Version	Date	Status of Version
Rev 0	October 2018	DCO submission

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1 RECORD OF ENVIRONMENTAL ACTIONS AND COMMITMENTS

Table 1-1: Record of Environmental Actions and Commitments (note all blank cells would be populated by the appointed contractor)

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
1 - General Environmental Management					
1A	Appoint Environmental Manager to manage all environmental issues during construction.		Contractor	E.g. CV for Contractor's Environmental Manager approved and person in post	
1B	Develop a Soil Resource Plan for the Scheme in accordance with the Defra Construction Code of Practice (Department for Environment, Food and Rural Affairs, 2009).	Chapter 10: People and Communities (document reference TR010035/APP/6.10).	Contractor		
1C	Develop a Soil Management Plan for the Scheme in accordance with the Defra Construction Code of Practice (Department for Environment, Food and Rural Affairs, 2009) and with the draft Soil Management Plan appended to the Outline Construction Environmental	Chapter 10: People and Communities (document reference TR010035/APP/6.10).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	Management Plan (document reference TR010035/APP/7.2).				
1D	Develop Noise and Vibration Management Plan for the Scheme. Ensure plan stipulates core working hours to be: 08:00 and 18:00 on weekdays (excluding bank holidays) and from 08:00 to 16:00 on Saturdays.	Chapter 11: Noise and Vibration (document reference TR010035/APP/6.11).	Contractor		
1E	Develop Pollution Control Plan for the Scheme in accordance with the draft Pollution Control Plan appended to the Outline Construction Environmental Management Plan (document reference TR010035/APP/7.2).	Chapter 12: Road Drainage and the Water Environment (document reference TR010035/APP/6.12).	Contractor		
1F	Develop Emergency Spill Response Plan for the Scheme.	Chapter 12: Road Drainage and the Water Environment (document reference TR010035/APP/6.12).	Contractor		
1G	Develop Dewatering Management Plan for the Scheme.	Chapter 12: Road Drainage and the Water Environment (document reference TR010035/APP/6.12).	Contractor		
1H	Develop Construction Water Management Plan for the Scheme.	Chapter 12: Road Drainage and the Water Environment (document reference	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
		TR010035/APP/6.12).			
1I	Develop Site Waste Management Plan for the Scheme in line with best practice guidance, for example WRAP and the the draft Site Waste Management Plan appended to the Outline Construction Environmental Management Plan (CEMP) (document reference TR010035/APP/7.2).	Chapter 14: Materials (document reference TR010035/APP/6.14).	Contractor		
1J	Develop Materials Management Plan for the Scheme in accordance with the draft Materials Management Plan appended to the Outline CEMP (document reference TR010035/APP/7.2).	Chapter 14: Materials (document reference TR010035/APP/6.14).	Contractor		
1K	Implement and deliver mitigation to offset the potential disturbance / displacement impacts and potential water quality impacts on the over-wintering bird populations associated with the adjacent Morecambe Bay and Duddon Estuary Special Protection Area (SPA) / Morecambe Bay Ramsar site as outlined in the Bird Mitigation Strategy appended to the Outline CEMP (document reference TR010035/APP/7.2) and in the Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
1L	Implement and deliver the biodiversity enhancement as outlined in the Biodiversity Enhancement Strategy appended to the Outline CEMP (document reference TR010035/APP/7.2).	Chapter8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
1M	Establish a Change Register to list and record all changes made to the CEMP.		Contractor		
1N	Submit the final CEMP to the Highways England Project Manager for acceptance prior to construction commencing. Accepted CEMP shall be in place prior to commencing works.		Contractor		
1O	All statutory consents, permits or licenses required for the construction (relevant to those that do not form part of the Development Consent Order (DCO)) should be obtained. Any conditions included in consents/licenses/permits should be documented in the updated CEMP and considered as part of the planning, design and construction process.		Contractor		
1P	A copy of all relevant environmental applications and consents / authorisations should be kept in the Project Environmental File and copies provided to		Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	Highways England of all applications and consents / authorisations as soon as practical after submission and receipt.				
1Q	The Contractor should identify best practices on a regular basis and submit to Highways England for consideration and wider circulation.		Contractor		
1R	Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.		Contractor		
1S	The Environmental File must be prepared and finalised for submission to the Highways England Project Manager.		Contractor		
2 – Air Quality					
2A	As part of general site inspections, the Environmental Manager is to monitor dust levels.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2B	Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken. Make the complaints log available to the local authorities when asked.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
2C	Undertake daily on-site and off-site inspections, where receptors are nearby, to monitor dust, record inspection results, and make the log available to the local authority etc. when asked. This would include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of site boundary, with cleaning to be provided if necessary.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2D	Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2E	Keep site fencing, barriers and scaffolding clean using wet methods where there is the risk of dust accumulation.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2F	Remove materials that have the potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2G	Cover, seed or fence stockpiles to prevent wind whipping.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2H	Ensure all vehicles switch off engines when stationary - no idling vehicles.	Chapter 6: Air Quality (document reference	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
		TR010035/APP/6.6).			
2I	All construction plant would use fuel equivalent to ultra-low sulphur diesel (ULSD) where possible.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2J	Ensure equipment is readily available on site to clean any dry spillages and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2K	Surfacing equipment (e.g. planer) only to be operated with any manufacturers dust abatement measures in place.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2L	Avoid scabbling (roughening of concrete surfaces) if possible.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2M	Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2N	Use water-assisted dust sweeper(s) on access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
2O	Avoid dry sweeping of large areas.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2P	Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2Q	Record all inspections of haul routes and any subsequent action in a site log book.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2R	Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site) where reasonably practicable. Situate facilities in a bunded area and collect and recycle wash waters where there is no risk of contamination.	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
2S	Impose and signpost a maximum-speed-limit of 15mph on surfaced and 10mph on un-surfaced haul roads and work areas (if long haul routes are required these speeds may be increased with suitable additional control measures provided).	Chapter 6: Air Quality (document reference TR010035/APP/6.6).	Contractor		
3 - Cultural Heritage					
3A	Undertake trial trenching to target identified receptors located within the draft order limits. Any archaeological remains	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	identified during the trial trench evaluation may be considered for further mitigation. The exact form of this mitigation would be defined and outlined in a Mitigation Strategy and draft Written Scheme of Investigation (WSI) following the completion of the trial trenching – anticipated to be submitted during the Examination.				
3B	Prepare a final WSI for all archaeological mitigation in accordance with the Mitigation Strategy and draft WSI and agree in writing with the local planning archaeological advisor prior to works commencing.	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		
3C	Open area excavations are to be centred on the area of the application site that would be impacted by the Scheme where archaeological remains are present. This would be carried out in accordance with the WSI noted in 3B.	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		
3D	Areas deemed less archaeologically significant but still requiring archaeological recording would be subject to a programme of archaeological monitoring. This monitoring or 'watching brief' would	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	be undertaken during the top soil strip on specific areas of the Scheme where archaeological potential is identified. This would help to identify any previously unrecorded archaeological remains within the Scheme and would provide a preservation by record. The archaeological monitoring would be undertaken in accordance with the WSI noted in 3B.				
3E	Ensure all written records of the archaeological investigations undertaken are completed and submitted in a timely manner. A copy of any analysis, reporting or publication required as part of the Mitigation Strategy should be deposited at the Historic Environment Record (HER) within 1 year of completion of the Scheme or such other period as may be agreed in writing by the relevant planning authority. Archive should be deposited with an appropriate museum.	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		
3D	In the event of human remains being found during the course of the works, works should stop, the local coroner and Project Manager should be notified	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	immediately. The local area around the remains should be immediately isolated and protected by the Contractor. Work in this area should not recommence without the prior acceptance of the Project Manager. If human remains are discovered during assessment work, they should be left in situ. If located during excavation, then a Ministry of Justice licence would need to be applied for prior to removal.				
3E	An archaeological watching brief would be maintained across identified areas of the application site where soil stripping would take place and archaeological potential is identified to allow for any as yet unknown archaeological remains to be identified and recorded. The archaeological watching brief would be carried out in accordance with a WSI noted in 3B.	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		
3F	Mitigation in the form of building surveying would comprise a Level 1 survey as defined by Historic England (Historic England, 2016) prior to demolition, archaeological monitoring during demolition, and during initial strip of	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	material at the start of construction impacts. The impact to a derelict structure through this form of mitigation to be detailed in a WSI as noted in 3B.				
3G	To establish an appropriate mitigation strategy from the impacts of the Scheme to Peat deposits, a phase of additional assessment is proposed to characterise the deposits more fully. This would comprise archaeological trial trenching and boreholes to gain a better understanding of the archaeological value of these deposits, across all four valley locations, as well as the peat deposits. The geoarchaeological assessment would be carried out in accordance with the WSI as noted in 3B.	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		
3H	The flow of construction traffic would be controlled in areas surrounding Conservation Areas. The draft TMP (document reference TR010035/APP/7.5) identifies restricted routes available to construction traffic. The restricted construction traffic route though Singleton Conservation Areas would be a	Chapter 7: Cultural Heritage (document reference TR010035/APP/6.7).	Contractor		

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	contingency route and only used if other options were blocked.				
4 - Biodiversity					
4A	Undertake a pre-construction ecological walkover survey to 'ground truth' previous survey information prior to construction (2019 / 2020).	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4B	Where possible topsoil stripping, would be undertaken outside of the winter period (October to March inclusive).	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4C	A pre-construction badger survey would be undertaken in Summer preceding construction year. The pre-construction survey would determine the location and status of any badger setts within and adjacent to the application site boundary. Sufficient time would then be allowed for obtaining a necessary badger licence from Natural England.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4D	Where possible, a 30m buffer zone should be maintained around any badger setts where heavy machinery is likely to be used. A 20m buffer zone should be maintained around any badger setts where lighter machinery would be used. A	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		

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	licence would be required should any setts fall within the construction area and therefore need to be closed. Based on any licence requirements review badger mitigation and commitments in the CEMP to ensure they comply with licence conditions.				
4E	Hedgerow / vegetation / tree removal within the construction site should be undertaken outside of the breeding bird season (March – September) (where possible). This would prevent birds nesting within the construction site prior to construction. If scrub or hedgerow clearance is undertaken during the bird breeding season, then a breeding bird check should be undertaken by an experienced ecologist prior to any removal. Wherever nests are found, a cordon of approximately 15m would be placed around the nest and no works would be permitted within that area until the chicks have fledged or confirmation from a qualified ecologist that work can proceed.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		

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4F	No invasive species have been identified to date that construction works would affect. However, if this changes during construction and they are identified, an Invasive Species Management Plan would be developed (this would form part of the CEMP), identifying relevant invasive non-native species within the area to ensure that all necessary precautions are taken to prevent their spread. Submit the plan to Highways England Project Manager for acceptance.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4G	Ensure the lighting Scheme is designed to minimise light spill onto adjacent habitats. During the construction phase, lighting would be directional and kept to a minimum. During the operational phase, lighting of the Scheme would minimise light spill and would be restricted to junction areas where the carriageway needs to be lit for health and safety considerations.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		

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	The Contractor would be required to undertake light modelling to ensure no increase in light spill above that identified for the designed Scheme. This should be undertaken in accordance				
4H	Baffles would be added to the lights which would decrease light spill to reduce visual disturbance of birds associated with the Morecambe Bay designations.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		
4I	Ditch crossings to allow access to the construction site would be minimised by using existing crossings where possible. Where practicable, a buffer of up to 10m would be maintained to either side of retained ditches which contain water to reduce any potential direct or direct impacts on the species and habitats associated with them.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		
4J	Existing gateways and gaps would be used to access the construction areas of the site with minimal hedgerow removal. Where possible, a buffer of 10m would be	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	maintained to either side of all hedgerows to reduce any potential impacts on the species and habitats associated with them.				
4K	The Environmental Manager shall develop and maintain a register of Sensitive Habitats and Protected Species encountered on the Scheme.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4L	Species and habitats known or duly identified should not be disturbed, should be protected and the accepted controls implemented.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4M	In the eventuality that a 'removed' or unforeseen species is found on the works during construction, the area should be isolated and protected from any further construction activities immediately. The Project Manager and Environmental Manager should be notified immediately; and the Contractors competent ecologist should propose mitigation options based impact evaluation. Localised construction activities should not recommence without the prior approval of the Project Manager.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
4N	During the breakthrough activities at the start of construction material from the hedge bank should be stored separately from topsoil to preserve the seed bank and labelled. This material should then be used during hedge reinstatement.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4O	No trees should be felled or lopped without prior written acceptance from the Project Manager following advice from the Environmental Manager.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4P	Standard Environment Agency Pollution Prevention Guidelines and their relevant pollution and sedimentation prevention measures (although these have been revoked) would be implemented. A combination of settlement ponds, hay bales and spill kits, etc. would be used, as appropriate to ensure that any works close to ditches would not have an adverse effect on downstream habitats.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Chapter 12: Road Drainage and the Water Environment (document reference TR010035/APP/6.12). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		
4Q	New woodland planting should be implemented into the Scheme design to	Chapter 8: Biodiversity (document reference	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	mitigate for the permanent loss of 6,287m^2 of deciduous woodland. New woodland would comprise native species of local provenance. New woodland planting is proposed along both sides of the new carriageway as identified on the Environmental Masterplan (document reference TR010035/APP/6.19). The woodland should be planted during the construction phase and would continue to establish during the operational phase of the Scheme.	TR010035/APP/6.8)			
4R	Where vegetation is to be retained, temporary fencing is to be installed to ensure no plant or site personnel enter in to these areas.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8)	Contractor		
4S	Hedgerows scheduled for temporary loss (as shown on the Environmental Masterplan (document reference TR010035/APP/6.19)) during construction would be reinstated and, where appropriate, would be improved from their baseline condition: defunct or species-poor hedges would be replanted so as to achieve species-rich and continuous hedgerows, once re-established. A buffer	Chapter 8: Biodiversity (document reference TR010035/APP/6.8)	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	of 10m (where practicable) would be retained around hedgerows to reduce any potential direct or indirect impacts on the species and habitats associated with them. Temporary fencing would be installed to demarcate root protection zones and to ensure no construction activities or site personnel enter into these areas.				
4T	New linear planting would be incorporated into the landscape design. New planting is proposed along both sides of the new carriageway, refer to the Environmental Masterplan (document reference TR010035/APP/6.19, Sheets 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14). Where possible, this would include reinstating and re-linking severed linear wildlife corridors. Planting mixes would be supplied from local sources and comprise native species of local provenance. The Scheme would be subject to a 5-year aftercare period.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8)	Contractor		
4U	Ponds removed temporarily during construction would be reinstated prior to Scheme becoming operational within the	Chapter 8: Biodiversity (document reference TR010035/APP/6.8)	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	same locations. Reinstated ponds would be returned to a condition of ecological value equal to or above that identified during baseline surveys. In the event that a pond cannot be reinstated in close vicinity to its baseline location, an alternative location would be identified. Three new ponds would be created within the central section of the Scheme to mitigate for the 3 ponds permanently lost beneath the footprint of the Scheme.				
4V	A Pollution Control Plan (draft appended to the Outline CEMP (document reference TR010035/APP/7.2) would be implemented during the construction phase to ensure the protection of water quality at the location of the new bridge crossing of the Main Dyke. This plan would include measures such as best practice construction site drainage management and pollution prevention measures in line with CIRIA guidance. During the operational phase, best practice pollution prevention and control measures would be implemented to ensure storm water runoff or accidental	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Chapter 12: Road Drainage and the Water Environment (document reference TR010035/APP/6.12). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	spillages from road traffic accidents (RTAs) do not adversely affect nearby habitats and species.				
4W	The Scheme would require 9 watercourse crossings. Where practicable, a buffer of up to 10m would be maintained to either side of the ditches to minimise any potential direct or indirect impacts on species and habitats associated with them. Areas of temporary habitat loss at the crossings during the construction phase would be reinstated, to a condition of ecological value equal to or above that identified during baseline surveys, prior to the Scheme becoming operational.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		
4X	During the construction phase an area of temporary, alternative habitat would be provided to mitigate for potential disturbance or displacement effects on the SPA/ Ramsar site qualifying species - pink-footed geese, lapwing and curlew. Management of temporary habitat could include supplementary feeding, retain crop stubble and managing crop rotation. Further detail is provided within the Bird Mitigation Strategy appended to the	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	Outline CEMP (document reference TR010035/APP/7.2).				
4Y	Landscape planting and bunding would be installed along the completed road Scheme (document reference TR010035/APP/6.19) to help minimise visual and noise disturbance to birds utilising adjacent habitats.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		
4Z	Construction works would be phased to allow the most sensitive sections of the Scheme to be constructed outside of the winter months. In addition, avoiding particularly loud activities at high tide when birds are more likely to be utilising inland habitats and avoiding night-time working would be required.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		
4AA	Mitigation is required for works carried out that impact upon great crested newts. Mitigation would be agreed with Natural England. As part of the mitigation approaches to the adopted, these works would include habitat manipulation, destructive searches, tool box talks as well as extensive habitat creation and	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		

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	enhancements as well as a net gain in available ponds. This would be delivered through an EPSL.				
4AB	The Scheme would require the loss of 21 trees with low bat roost potential and 4 trees with moderate bat roost potential. These would be replaced on a 2:1 ratio; for each potential roost feature removed, two bat boxes would be installed on existing trees within the order limits. For each bat box installed the equivalent numbers of bird boxes would also be installed at the same location, where feasible.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4AC	Two confirmed bat roosts would be lost (buildings B2 and B4). Full details pertaining to the mitigation relating to the roost would be detailed in the EPSL. However, the principal components of the EPSL would include: sensitive timings of works: destruction of the roost to be undertaken November – February; bat roosts would be demolished using standard capture and exclusion (i.e. soft strip with a licensed bat worker present); mitigation for B2 would include the	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		

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	provision of 6 bat boxes in 2 groups of 3, incorporated into the new Shard Bridge structure, close to the site of the original roost; mitigation for B4 would include the provision of a bat barn in close proximity to the location of the original roost; dark corridors would be maintained alongside landscape planting around mitigation for either roost. The bat boxes and bat barn would be constructed prior to the demolition of the respective roosts for which they are proposed mitigation. Specific details would be agreed with Natural England and delivered through an EPSL.				
4AD	Works close to building B3 (a confirmed bat roost) should, where possible, avoid the core active season for bats (May – September) to ensure no disturbance to the confirmed roost. Construction-phase lighting would be designed to avoid light-spill to such areas; monitoring would be undertaken by the Ecological Clerk of Works (ECoW), during construction	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4AE	Strategic landscape planting is to be used to minimise effect to permanently severed	Chapter 8: Biodiversity (document reference	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	bat commuting routes and to guide bats to safe crossing points. This would be installed prior to the Scheme becoming operational.	TR010035/APP/6.8).			
4AF	Culverts suitable for use by otters would be installed at 5 crossing point locations. Each culvert would be installed with either a ledge or a dry pipe where the vertical alignment does not permit the installation of a ledge. Detailed specifications for each culvert are provided in Scheme Drainage Strategy which is appended to the FRA (document reference TR010035/APP/5.2). Otter-proof fencing (adhering to Highways Construction Detail H48) would be installed from the entrance of each culvert, either side of the Scheme for a distance of 100m in each direction.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4AG	Two mammal tunnels would be installed at the western extent of the Scheme. Each tunnel would be constructed of Class M 600m diameter concrete pipes following DMRB standard specifications. Badger-proof fencing would also be installed, adhering to Highway Construction Detail H47. Fencing would extend 500m in either	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	direction from a mammal tunnel on both sides of the road. Where otter and badger fences overlap a single fence meeting the requirements of both receptors would be installed.				
4AH	Construction-phase lighting would be designed to avoid light-spill to badger setts and territory markers; monitoring would be undertaken by the ECoW where necessary, construction hours have been stipulated to ensure bats are not perturbed from exiting roosts to forage or disperse to alternative roost sites.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4AI	Bird monitoring would be undertaken during the construction phase of the Scheme. Specifically looking at the response of targeted bird species; pink-footed geese, lapwing, curlew and little egret to the alternative temporary habitat provided. This is to ensure the mitigation measures for the Scheme continue to be appropriate and effective. Further detail is provided within the Bird Mitigation Strategy appended to the Outline CEMP (document reference TR010035/APP/7.2).	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
4AJ	A suitably qualified ECoW would be available for the duration of the construction period to resolve any uncertainties regarding ecological issues and to monitor compliance with good practice mitigation measures. The ECoW would undertake all necessary surveys (e.g. for breeding birds) during the construction period to ensure up-to-date information is available.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8). Habitats Regulations Assessment (document reference TR010035/APP/5.4).	Contractor		
4AK	New ditches totalling a length of 6,742m would be installed along the length of the Scheme therefore representing substantial increase of this habitat type in the long-term.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).	Contractor		
4AL	To ensure no potential impacts on birds utilising adjacent habitats. Any night working would be agreed in advance with the local authority, and the restrictions outlined within the Outline CEMP (document reference TR010035/APP/7.2).	Habitats Regulations Assessment (document reference TR010035/APP/5.4).			
4AM	Hedgerows between fields within the bird mitigation area would be cut short for the duration of the construction works (1 to 1.5m) (shown as green lines on Figure 2, Annex A within the Bird Mitigation Strategy	Habitats Regulations Assessment (document reference TR010035/APP/5.4).			

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	appended to the Outline CEMP (document reference TR010035/APP/7.2)) Hedgerows would be cut in late summer (August / September) of 2020 to avoid the bird nesting season, and to ensure that they are cut prior to the birds returning in autumn / winter. It may be necessary to re-cut the hedgerows prior to second winter of the construction phase. Following completion of the construction works, the hedgerows would be allowed to regenerate. Any significant gaps would be replanted to ensure the hedgerows are returned to their pre-construction state.				
5 - Landscape					
5A	Undertake a topographic and photographic survey of the site prior to construction to record current condition and to inform reinstatement.	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		
5B	Weed control should be undertaken as appropriate.	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		
5C	Signage would be kept to a minimum and only positioned at site entrances. This would allow for project information boards only.	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
5D	There would be static lighting points fixed to temporary structures such as the masts, cabins, workshops, gantry cranes and silos with the lamps up to 10m in height. These would be used to illuminate regularly used work areas, the car park and access areas. Baffles would be installed on all lighting columns and light is to be angled to face works.	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		
5E	Existing vegetation would be retained in accordance with the Environmental Masterplan (document reference T010035/APP/6.19).	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		
5F	Opportunity for early implementation of mitigation measures (new vegetation) should be explored and undertaken where possible to aid establishment prior to the Scheme opening.	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		
5G	Opportunities to reduce impacts of nearby highly sensitive visual receptors should be sought through sensitive design of construction compounds e.g. organising compound features, and using earthworks / fencing to screen internal activities during the construction phase.	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
5H	Standard temporary boundary fences for construction compounds would be used instead of Heras fencing. These reduce visual intrusion, assist in noise attenuation and ensure public safety (including uninvited intruder entrance to the site). Any damage or graffiti would be rectified as soon as reasonably practicable. The boundary fence would be maintained to an acceptable standard.	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		
5I	The Contractor would take measures to control the visual impact of the works, where reasonably practicable.	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		
5J	All mitigation measures associated with the operation of the Scheme would be implemented in accordance with the Environmental Masterplan (document reference TR010035/APP/6.19).	Chapter 9: Landscape (document reference TR010035/APP/6.9).	Contractor		
5K	The specification of species for new woodland planting (including those within the Singleton Parkland Landscape) should include Ash, Beech and Oak, as these are indigenous native species with local provenance. This will aid the integration of these new features within the local landscape.	Chapter 9: Landscape (document reference TR010035/APP/6.9).			

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
6 - People and Communities					
6A	Highways England would inform local businesses / residents of proposed works via the Scheme website.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Highways England		
6B	Highways England would seek to develop links with educational establishments in the locality. For example, cycle proficiency courses for children. Talks at local secondary schools to provide an insight into engineering as a possible profession.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Highways England		
6C	Clearly establish the working area to prevent any encroachment into the construction area by third parties.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6D	The relationship with the landowners, occupiers, stakeholders and the local community would be maintained throughout the construction phase through the Scheme website and a dedicated stakeholder representative appointed by the Contractor.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6E	Construction site would be clearly delineated and fenced. This would ensure no trespassing onto land with construction	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	activities and therefore reduce health and safety risks.				
6F	Discussions would be held with the individual landowners to ensure that disruption to any agri-environment Schemes or Single Farm Payment Contracts is minimised.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6G	Soil handled and stored in line with Defra's Construction Code of Practice for the Sustainable Use of Soils on Construction Sites. Full details will be presented in a Soil Management Plan which will be informed by a detailed soil survey undertaken in advance of any soil stripping operations commencing.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6H	On land to be returned to agriculture surface water/ agricultural drains would be re-installed to reinstate any pre-existing field drainage systems to pre-construction condition.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6I	All soils would be stored a minimum of 5m from watercourses (or potential pathways to watercourses) and any potentially contaminated soil would be stored on an impermeable surface and covered to	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	reduce leachate generation and potential migration to surface waters.				
6J	Industry standard measures would be put in place to control pollution, including from fuel or chemical stores, silt-laden runoff or dust.	Chapter 10: People and Communities (document reference T010035/APP/6.10). Chapter 12: Road Drainage and the Water Environment (document reference TR010035/APP/6.12).	Contractor		
6K	Following completion of construction operations all agricultural land taken temporarily would be fully reinstated as near as practically possible to its former condition. Topsoil would be prepared and seeded using an appropriate seed mix.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6L	A considerate construction approach would be used to minimise potential impacts on the agricultural enterprises during the construction phase. Toolbox talks would be used to inform all those working on the site of the requirements for soil handling and minimisation of disturbance to neighbouring agricultural activities.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
6M	All fencing around the Scheme would be sufficient to resist damage by livestock and would be regularly checked and maintained in a suitable condition where applicable. Any damage to boundary fencing would be repaired immediately.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6N	Measures contained in relevant Defra and Environment Agency best practice guidance on the control and removal of invasive weed species would be implemented where appropriate refer to 4F.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6O	Works would cease, and the Animal Health Regional Office would be advised, should animal bones be discovered which indicate a potential burial site.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6P	All movement of plant and vehicles between fields would cease in the event of a disease outbreak and official Defra advice would be followed to minimise the biosecurity risk associated with the continuation of works.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6Q	In relation to temporary and permanent land take requirements liaison with the landowner would be undertaken to agree	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	commercial terms with affected parties in relation to associated losses.				
6R	Where reasonably practicable, maintain Public Rights of Way (PRoW) (including diversions) for pedestrians, cyclists and equestrians affected by the Scheme, including reasonable adjustments to maintain or achieve inclusive access.	Chapter 10: People and Communities (document reference T010035/APP/6.10).	Contractor		
6S	In order to avoid or reduce impacts on local residents and local communities, maintain essential access to private residences, community facilities and businesses throughout construction period.	Chapter 10: People and Communities (document reference (T010035/APP/6.10).	Contractor		
6T	Pre -construction survey, testing and recording of the existing topsoil and subsoil conditions	Chapter 10: People and Communities (document reference (T010035/APP/6.10).	Contractor		
6U	Pre-construction activity to establish the exact nature of the existing field drainage system including any associated farm drainage which may be affected by the Scheme	Chapter 10: People and Communities (document reference (T010035/APP/6.10).	Contractor		
6V	Assessment and agreement of replacement drainage to be installed during restoration	Chapter 10: People and Communities (document reference	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
		(T010035/APP/6.10).			
6W	Assessment of appropriate levels of compensation based on farm and construction record	Chapter 10: People and Communities (document reference (T010035/APP/6.10).	Contractor		
7 - Noise and Vibration					
7A	Undertake pre-construction noise monitoring surveys as agreed with the relevant local authorities to establish a pre-construction baseline for the derivation of construction noise limits.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7B	Following any changes to the design, the Contractor would ensure that an updated noise assessment has been carried out to ensure there would be no additional or increase in negative effects on nearby receptors.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7C	The Contractor would be responsible for notifying the local residents of particularly noisy work prior to commencement of those works. Effective communication should be established, keeping residents informed of the type and timing of works involved.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
7D	A set of generic best practice working methods referred to as Best Practicable Means (BPM) would be employed during the construction phase. Typical BPM are provided below.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7E	Closed board fencing would be installed around the construction compounds.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7F	Provision of contact details for a site representative in the event that disturbance due to noise or vibration from the construction works occurs; ensuring that any complaints are dealt with pro-actively and that subsequent resolutions are communicated to the complainant.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7G	Site access routes would be in good condition and well maintained with no potholes or other significant surface irregularities.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7H	Plant machinery would be turned off when not in use.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
7I	All vehicles and mobile plant would be well maintained such that loose body fittings or exhausts do not rattle or vibrate.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7J	Silenced equipment would be used where possible, in particular silenced power generators and pumps.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7K	All equipment used would be properly maintained and operated by trained staff.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7L	Plant and equipment covers/hatches would be properly secured and there would be no loose fixings causing rattling.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7M	Static noisy plant, including generators, would be located as far away from noise sensitive receptors as is feasible for the particular activity.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7N	On site speed limits would be in place to reduce the effect of construction traffic noise. Speed limits would be enforceable within the main works sites, with all non-surfaced roads restricted to 10mph and any surfaced roads restricted to 15mph.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
7O	To minimise vibration from HGV movements, there would be monthly condition assessments to inspect for defects such as pot holes which could cause an increase in noise levels. Existing potholes would need to be considered by a condition assessment prior to the commencement of works.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7P	As part of the plant selection process the contractor should adopt a procedure to ensure the quietest plant and equipment, techniques and working practices available would be selected and used.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7Q	No music or radios would be played on site.	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		
7R	During the construction phase, noise monitoring would be undertaken at key sensitive receptors (to be defined through development of the final CEMP and Noise and Vibration Management Plan) to ensure that the mitigation measures suggested are working effectively. The regime would be agreed with the relevant	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		

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	Environmental Health Officers (EHO) prior to works commencing. Appropriate locations are considered to be: Barton House (Skippool Road), The Cottage (Old Mains Lane), Meadow View Barn (195 Mains Lane), 36 Kevin Avenue, 103 Mains Lane, North Lodge (Lodge Lane) and Bankfield Manor (Poolfoot Lane).				
7J	The Scheme includes specific noise mitigation measures, which have been incorporated as part of the design. The proposed mitigation measures which have been implemented into the design are as follows: - Low noise/thin surfacing system surface to be laid on new or altered roads - 2m high acoustic barrier from chainage 750 to 825 along the eastbound carriageway - 2m high acoustic/landscape bund from chainage 825 to 1190 along the eastbound carriageway - 2m high acoustic barrier from chainage 1190 to 1675 along the	Chapter 11: Noise and Vibration (document reference T010035/APP/6.11).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	eastbound carriageway (*note: this barrier has a small break in it for vehicle access*) - 2m high acoustic/landscape bund from chainage 1675 to 2100 along the eastbound carriageway - 2m high acoustic/landscape bund from chainage 2270 to 2755 along the eastbound carriageway - 3m high acoustic barrier from chainage 3100 to 3200 along the eastbound carriageway - 2m high acoustic/landscape bund from chainage 750 to 1100 along the westbound carriageway - 2m high acoustic/landscape bund from chainage 1200 to 1500 along the westbound carriageway - 2m high acoustic barrier from chainage 1500 to 2100 along the westbound carriageway - 2m high acoustic/landscape bund from chainage 2200 to 2500 along the westbound carriageway - 2m high acoustic barrier from chainage 3100 to 3270 along the				

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	westbound carriageway (refer to Figure 11.4 of Chapter 11: Noise and Vibration (document reference TR010035/APP/6.11).				
8 - Road Drainage and the Water Environment					
8A	An assessment would be made prior to works starting to identify existing land drainage and highway drainage and its condition. Land clearance would be sequenced to minimise the extent of exposed top soil and disturbed areas stabilised as soon as earthworks are complete to reduce risks of sedimented runoff from work sites.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8B	The Construction Water Management Plan would need to be developed by the Contractor. All works to watercourses would be in accordance with Environmental Permit requirements, namely Environment Agency Flood Risk Activity Permits for works to Main Rivers (e.g. the Main Dyke) and LLFA Ordinary Watercourse Consents for works to ordinary watercourses.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8C	The construction Scheme drainage would be designed to maximise the use of stone	Chapter 12: Road Drainage and the Water Environment	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	and terram and Sustainable Drainage Systems (SuDS) to reduce potential impacts resulting from increases in the rates and volumes of surface water runoff that are generated during rain storm events as a result of temporary increases in the coverage of impermeable surfaces. SuDS required for the permanent works would be completed before the start of earthwork operations and all necessary consents / environmental permits for any soakaway or filtration systems or to enable discharge of surface water runoff from the construction site and water from excavations would be secured.	(document reference T010035/APP/6.12).			
8D	The Contractor would develop a dewatering design to minimise dewatering associated with the cutting at Lodge Lane. The Contractor shall prepare a Hydrogeological Impact Assessment and Dewatering Management Plan to reflect the temporary works design. Detailed design of the permanent cutting drainage solution would be informed by a programme of geotechnical surveys to	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	identify any further measures necessary to control groundwater.				
8E	The Emergency Flood Response Plan would need to be developed by the Contractor for the site and would form part of the CEMP. It would link into the Environment Agency's advanced flood warning system. The Emergency Flood Response Plan would allow the Contractor to be able to assess the need to put evacuation and site shutdown procedures into action. The suitability of the flood warnings provided would also be assessed by the Contractor during the construction phase.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8F	The Emergency Flood Response Plan should contain detail regarding access and egress emergency plans.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8G	A water quality monitoring programme would be agreed with the Environment Agency prior to construction of the Scheme (a minimum of quarterly groundwater quality analysis sampling), this would monitor water pre-construction as well as during the construction phase.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
8H	Where necessary and subject to agreement with the landowner/occupier, new field drains would be installed to aid recovery from the construction activities and maintain the site work areas as dry as practicable.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8I	To reduce the risk of pollution of surface waterbodies, where practicable the contractor would carrying out works to facilitate new watercourse crossings in dry conditions (e.g. creating an in-channel dry working area by using coffer dams and over pumping, flume arrangements or similar). Where dry working conditions are not practicable measures such as silt curtains would be deployed to prevent downstream pollution	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8J	Water monitoring would take place at active discharge points to local drainage ditches. Daily visual inspections would also be undertaken as part of the works for signs of changes in water colour, transparency and for signs of oil sheen, scum or foam build up.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8K	In line with the Emergency Flood Response Plan weather forecasts would	Chapter 12: Road Drainage and the Water Environment	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	be monitored and the construction compound would be signed up to the Environment Agency's Flood Warning service. To ensure no flood risk impacts on third party land in the very unlikely scenario of flooding of compounds during the construction period, no ground raising would be undertaken at the compound north east of Skippool Junction and the compound and laydown area local to the proposed Grange footbridge to avoid loss of floodplain storage. The compounds should be secured via open link fencing so as not to impede the flow of floodwater across the sites.	(document reference T010035/APP/6.12).			
8L	In line with the Emergency Flood Response Plan, in the event of a severe warning site-based construction activities would be terminated and the site evacuated of construction personnel as appropriate.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8M	The Construction Water Management Plan would be implemented to efficiently manage the use of water and manage/mitigate pollution risks. This would make available a suitable quantity	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	of pollution control equipment, including consumable items such as absorbent pads and absorbent granules or similar material. These materials should be readily available at the work site at all times and a regular check during the weekly inspections made to see that they are available. Adequate provision should be made to ensure that absorbent pads, booms and granules are kept dry prior to use.				
8N	All fuel bowsers and emergency vehicles should carry larger spill kits including sorbent pads and sorbent material to deal with any small spillages, in addition to polythene sacks for gathering spent absorbents.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8O	The CEMP to be prepared must include all pollution prevention measures relevant to the Scheme that are documented in the Environment Agency's Pollution Prevention Guidelines (although revoked they still represent good practice).	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8P	Establish a user-friendly register of pumping that details the location of all pumping operations, points of discharge,	Chapter 12: Road Drainage and the Water Environment (document reference	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	type of discharge, any mitigation requirements at discharge points, the plant "tagged" identification number; the responsible attendant, dates of discharge, permit numbers, irregularities occurring.	T010035/APP/6.12).			
8Q	Provide a system for issue and registering "discharge permits" whereby a Permit to Discharge water is issued to the pump attendant following an inspection of each proposed pumping location and discharge point prior to the commencement of discharge.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8R	Maintain a register of all pumping equipment to record type, purpose, maintenance frequencies, inspections etc. and set up a system for regular monitoring and auditing of the equipment. This would be incorporated into the master plant register.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8S	Designated contained washout areas should be provided at least 10m from any watercourse or surface water drain to minimise the risk of pollution, and they must comply with advice from the Environment Agency. Washout areas must be impermeable to prevent pollution	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	of Groundwater. Washout areas should be signposted and delivery drivers informed about their position and washout activities should be carried out or supervised by competent persons.				
8T	Spill kits must be tagged, checked and logged on a register.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8U	No re-fuelling of mobile plant within 10m of a watercourse.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8V	Undertake water quality monitoring programme during the construction phase.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
8W	Prior to the construction of any embankments land on the right bank of the Main Dyke immediately downstream of the A586 would be lowered, in accordance with an Environment Agency approved floodplain compensation storage scheme to offset the temporary loss of floodplain caused by the road embankment prior to	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	construction of the new open span Main Dyke crossing.				
8X	Where existing properties are served by septic tanks that could be affected by construction of the Scheme, appropriate mitigation measures would be put in place to ensure no detriment to foul drainage provision, nor to the local water environment.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).	Contractor		
9 - Geology and Contaminated Land					
9A	Prior to any compound areas being constructed, a baseline survey would be undertaken to determine the current land quality in these areas. This would be a general survey across the compound areas and would mainly consist of hand dug pits to establish the current land quality. If required, specific areas of contamination would be assessed in more detail such as shallow exploratory holes (e.g. windowless exploratory holes) to ensure that contamination is not present and therefore incorporated into stockpiles during stripping.	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).	Contractor		
9B	An Emergency Spillage Response Plan would be produced by the Contractor.	Chapter 13: Geology and Contaminated Land	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	Appropriate equipment (e.g. spill kits, absorption mats) would be made easily accessible on-site and personnel would be trained in using them. Clear protocols and communication channels would be provided to ensure that any spillages are dealt with immediately and adequately. This would prevent large areas of soil / geology potentially becoming contaminated and in turn protect surface water quality.	(document reference TR010035/APP/6.13).			
9C	The Site Waste Management Plan and a Materials Management Plan (MMP) would be prepared following the protocols within the Contaminated Land Application in the Real Environment (CL:AIRE) Definition of Waste: Development Industry Code of Practice to ensure that excavated materials are re-used appropriately, sustainably and remain outside the waste hierarchy.	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13). Chapter 14: Materials (document reference TR010035/APP/6.14.	Contractor		
9D	During the stripping and excavation work, a watching brief would be adopted with site workers remaining vigilant such that visual or olfactory signs of contamination are noted. Contaminated soil would be	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	kept separate from other materials and analysed to determine if it is suitable for re-use on site or requires disposal off-site to an appropriate disposal facility. In areas of known contamination, soil stripping may not occur until the affected soils have been removed.				
9E	To reduce the spread of contaminants, contaminated soils (identified by the intrusive investigation) within areas to be excavated would be removed prior to the main works as detailed in a remedial method statement Materials would be treated so they can be reused within the Scheme e.g. embankments or if this is not possible materials would be disposed of at an appropriate waste facility.	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).	Contractor		
9F	Specific areas would be designated for the storage of chemicals, waste oils and fuel and refuelling activities. These areas would be bunded and placed on hard standing to prevent downward migration of contaminants.	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).	Contractor		
9G	Designated fuel transfer areas are to be established and used for the transfer of	Chapter 13: Geology and Contaminated Land (document reference	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	fuel or other potentially contaminating liquids. Drip trays are to be provided.	TR010035/APP/6.13).			
9H	Generators are to be placed within the compound areas. These would be appropriately bunded (self-bunded or secondary containment) to protect underlying soils for leaks and spillages.	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).	Contractor		
9I	During the construction phase, localised contamination may occur within the compound areas through spillages / leakages of fuel and therefore a repeat baseline survey would be undertaken once the construction has finished and the compound dismantled to demonstrate the area has been returned to its previous state. If contamination has occurred during the lifetime of the compounds, remediation would be undertaken to return the land to its previous land quality state	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).			
9J	During the construction phase, all persons engaged in site construction works would be made aware of any potential contaminated material. To prevent risks from exposure to any contaminants the appropriate Personal Protective Equipment would be made available.	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).	Contractor		

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
9K	Appropriate pollution prevention measures such as bunding of the spoil storage area would be implemented to prevent leaking of waste material or waste leachate spillages which may impact the soils and water quality in the vicinity of the storage area. If considered necessary, e.g. in extreme wet weather, the stockpiles should be covered with plastic sheeting to prevent sediment entering run off and material being lost from the stockpiles. These measures would be developed from the EA's Pollution Prevention Guidelines (although revoked they still remain good practice).	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).	Contractor		
9L	Further intrusive investigations may be undertaken in areas of concern highlighted by previous intrusive works and for detailed design of the Scheme. This should include additional gas monitoring in areas of concern such as peat deposits and near to landfill site to confirm the gas regime in these areas. If unacceptable contaminant concentrations are identified, remedial action would need to be implemented.	Chapter 13: Geology and Contaminated Land (document reference TR010035/APP/6.13).	Contractor		

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10 - Materials					
10A	Promote opportunities for the potential reusing and recycling of all material resources and waste.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10B	Sort and segregate waste into different waste streams (where technically and economically feasible).	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10C	Manage material use to maximise the environmental and Scheme benefits from the use of surplus materials.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10D	Register with the Considerate Constructors Scheme.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10E	The detailed design would apply the 5 key principles of waste minimisation (design for reuse and recovery, off-site construction, materials optimisation, waste efficient procurement and deconstruction and flexibility) in future construction phases to support the use of materials in a more efficient manner and to consider how reuse, recycling and recovery of materials can be incorporated into the design and ultimately reduce waste to landfill.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10F	Maximise the reuse of material (e.g. uncontaminated soils and on-site	Chapter 14: Materials (document reference			

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	demolition materials) back into the Scheme along with the responsible sourcing of construction materials.	TR010035/APP/6.14).			
10G	Develop sustainability targets and monitor during construction.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10H	Structures, drainage and signage products would be procured with consideration of the environmental impacts associated with their manufacture, as well as other considerations such as structural design, carbon footprint, energy consumption, long-life performance, visual impacts, durability and cost.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10I	The procurement process shall ensure that material resources are ordered so that the timing of the delivery (e.g. 'just in time' deliveries), the quantities delivered, and the storage are optimised to reduce opportunity for oversupply and damage onsite.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10J	wherever possible and where specification allows, construction materials would include a measurable recycled content in their manufacture.	Chapter 14: Materials (document reference TR010035/APP/6.14).			

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
10K	Wherever possible, standardisation of materials and elements would be incorporated in order to minimise required material resources and the production of waste. For example, the use of prefabricated components.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10L	Local sources for aggregate supplies would be considered whenever and agreements with suppliers would be explored to reduce the amount of packaging used to protect materials or to participate in a packaging take back Scheme.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10M	Excavated material would be targeted for fill and landscaping where this is feasible, and the material is suitable. Excavated materials, such as soils, would be carefully stored in segregated piles for subsequent reuse on the site, where possible. If the material is contaminated then it would be kept separate from clean material and sent for either treatment, recycling or recovery, where appropriate, or disposal at appropriately permitted facilities.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10N	Surplus inert excavated materials (e.g. soils, stone, bricks, clay, rubble, rock) may	Chapter 14: Materials (document reference			

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	be suitable for use in land reclamation projects. This would require compliance with the criteria and thresholds for an exemption or a permit under the Environmental Permitting Regulations 2010 (as amended). The CL:AIRE DoWCoP1 may also be applicable for the reuse of this material.	TR010035/APP/6.14).			
10O	Materials unsuitable for use onsite (e.g. timber off cuts that cannot be used onsite) would be collected in receptacles for subsequent separation and considered for recycling at an off-site facility.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10P	All vegetation waste would be diverted from landfill, unless identified as an invasive species and no other options are available. The greatest opportunity for the sustainable management of vegetation waste is through recycling into compost.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10Q	Any hazardous waste including any contaminated soil would be identified,	Chapter 14: Materials (document reference TR010035/APP/6.14).			

[1] Contaminated Land Applications In Real Environments (CL:AIRE) (2011) The Definition of Waste: Development Industry Code of Practice [online] available at: https://www.claire.co.uk/projects-and-initiatives/dow-cop/28-framework-and-guidance/111-dow-cop-main-document (last accessed August 2018).

Reference Number	Action / Commitment (including any assumptions)	Source of Action / Commitment	Responsible Person	Achievement Criteria	Anticipated project stage or date of implementation and / or achievement
	removed and kept separate from other CD&E wastes.				
10R	Asbestos based materials and other contaminants may arise during the excavation works. Any asbestos encountered onsite would be managed by a qualified asbestos removal contractor in accordance with the Outline CEMP Appendix O: Asbestos Management Plan (document reference TR010035/APP/7.2).	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10S	Appoint a Waste Manager or Champion who would oversee the implementation of the waste control strategy and the handling of any waste material.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10T	The waste management compound would be established within the application boundary, at Poulton Junction, to handle incoming waste from construction activities This would be designed to facilitate the segregation of key waste streams to maximise the opportunity to reuse, recycle and return wastes generated onsite.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10U	Construction and demolition work would be carried out closely with the waste management contractors, in order to	Chapter 14: Materials (document reference TR010035/APP/6.14).			

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	determine the best techniques for managing waste and ensure a high level of recovery of materials for recycling. An area would be established for spoil classification at the draft order limits.				
10V	Shelter would be provided to prevent materials such as cardboard and paper from deteriorating while being sorted or awaiting collection. Space would be provided to accommodate skips and the storage of reusable materials.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10W	For all waste management options on the site compound, consideration will need to be given for identifying whether waste exemptions or permits are required to enable for the storage and treatment of waste materials.	Chapter 14: Materials (document reference TR010035/APP/6.14).			
10X	Only where required, material resources cannot be provided from within the Scheme section, either due to insufficient material resources or the wrong type of material resource, the required material resources would be imported onto the Scheme via the existing road network.	Chapter 14: Materials (document reference TR010035/APP/6.14).			

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11 - Climate					
11A	Where fill material would be required, it has been designed as far as is practicable to come from within the same section of works. The remaining import would be sourced locally or obtained from the proposed borrowpits.				
11B	Where practicable, any surpluses or permanently displaced soils would be used to reinstate soils with profiles thicker than the original. In these situations, wet soils could be better drained and so more resilient to intense rainfall; and dry soils are generally shallow and do not retain water in the profile so they could be more moisture retentive. In both cases, higher organic matter content would make them more resilient.				
12 – Operational Monitoring (to be carried forward into the Handover Environmental Management Plan (HEMP)					
12A	A water quality monitoring programme would be agreed with the Environment Agency prior to construction of the Scheme (a minimum of quarterly groundwater quality analysis sampling), this would monitor water post-construction	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12).			

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	for a period of two years, unless agreed with Environment Agency.				
12B	Tunnels, culverts and fencing installed for otters and badgers would be monitored annually for the first 3 years. This is to identify any maintenance requirements and any rectification measures, if required, would be implemented within 6 months of being identified.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).			
12C	Reinstated ponds would be monitored annually for the first 3 years. As above, any rectification measures would be implemented within 6 months of the being identified.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).			
12D	Monitoring of all habitat mitigation, compensation and enhancements measures would be undertaken annually for 3 years following construction by a suitably qualified ecologist.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).			
12E	Initial monitoring visits would be used to ensure measures have been installed to the correct specification; thereafter monitoring would be used to inform any remedial or rectification measures required.	Chapter 8: Biodiversity (document reference TR010035/APP/6.8).			

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12F	New planting would be maintained in accordance with a programme of review and management practices to be agreed by the client to ensure successful establishment of all proposed vegetation. This would include monitoring during the 5-year aftercare period and where necessary trees replaced.	Chapter 9: Landscape (document reference TR010035/APP/6.9).			
12G	The operator would provide adequate signage and notices via social media to warn of road closures on receipt of a Severe flood warning (linked to tidal flooding) from the Environment Agency.	Chapter 12: Road Drainage and the Water Environment (document reference T010035/APP/6.12)	Operator		

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