
The Cambridge South East Transport Order

Transport And Works Act 1992

Transport And Works (Applications And Objections Procedure) (England And Wales) Rules 2006

Appendix 2.7 - Register of Environmental Actions and Commitments

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Applicant	Cambridgeshire County Council
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Register of environmental actions and commitments

2.1.1 The Register of Environmental Actions and Commitments (REAC) is a schedule of all the mitigation measures identified in the ES that require implementation, and any additional monitoring requirements identified to ensure that the environmental effects are no worse than predicted.

2.1.2 Table A2.7.1 summarises the identified mitigation measures. Much of the monitoring identified in the ES is incorporated in the mitigation measures. To avoid duplication Table A2.7.2 sets out the additional monitoring requirements that are not already specified in Table A2.7.1.

Table A2.7.1 Schedule of mitigation measures

Mitigation reference	Phase	Mitigation measure	Point of implementation	Measure secured through	Responsible party
General					
GN1	Construction	Production of a CEMP and CoCP	Pre-construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
Air quality					
AQ1	Construction	Implementation of the general mitigation measures specified in the IAQM guidance for all construction activities	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
AQ2	Construction	Implementation of the mitigation measures specified in the IAQM guidance for high-risk earthworks activities	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
AQ3	Construction	Implementation of the mitigation measures specified in the IAQM guidance for high-risk construction activities	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
AQ4	Construction	Implementation of the mitigation measures specified in the IAQM guidance for low risk track out activities	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
Noise and vibration					
NV1	Construction	Temporary acoustic fencing or solid site hoarding	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
NV2	Construction	Implementation of best practice measures (BPM) as set out in BS 5228:2009+A1:2014 Part 1 and 2	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
NV3	Construction	Minimise noise from alarms	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
NV4	Construction	Implementation of site-specific construction noise measures	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
NV5	Construction	Implementation of site-specific construction vibration measures	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
NV6	Construction	Regular site inspections and monitoring	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
NV7	Operation	Low noise road surfacing	Detailed design	Planning Condition 14: Busway Details	Contractor

Mitigation reference	Phase	Mitigation measure	Point of implementation	Measure secured through	Responsible party
NV8	Operation	Acoustic bunds and barriers	Detailed design	Planning Condition 13: Design and External Finishing	Contractor
Water environment					
WE1	Construction	Temporary bridge design	Pre-construction	Planning Condition 11: Temporary Crossing Over River Granta	Contractor
WE2	Construction	Implementation of best practice measures outlined in the draft CoCP and draft CEMP.	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
WE4	Construction	Adherence to pollution prevention guidance	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
WE5	Construction	Safe storage of fuel and oil on Site, and measures to minimise leaks and drips	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
WE6	Construction	Concrete washout procedure and other concrete mitigation	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
WE7	Construction	Temporary drainage and surface water management	Throughout construction	Planning Condition 12: Drainage	Contractor
WE9	Construction	Safe storage of chemicals and hazardous substances	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
WE10	Construction	Location of temporary works compounds outside of flood risk areas	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
Geology and soils					
GS1	Construction	Production of RAMS, adoption of appropriate PPE and working practices	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
GS2	Construction	Unexpected contamination protocols	Throughout construction	Planning Condition 8: Unexpected Contamination	Contractor
GS3	Construction	Piling risk assessments	Throughout construction	Planning Condition 7: Piling Risk Assessment	Contractor
GS4	Construction	Contaminated land watching brief	Throughout construction	Planning Condition 8: Unexpected Contamination	Contractor
GS5	Construction	Ground gas and vapour assessment	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
GS6	Construction	Reinstatement of land	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor

Mitigation reference	Phase	Mitigation measure	Point of implementation	Measure secured through	Responsible party
Biodiversity					
BD1	Construction	Provision of temporary commuting route features	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
BD2	Construction	Pre-construction surveys for bats to be undertaken	Pre-construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
BD3	Construction	Retention and protection of existing vegetation using protective barriers	Throughout construction	Planning Condition 5: Tree Protection Measures	Contractor
BD4	Construction	Implement measures to protect trees set out in BS 3998:2010	Throughout construction	Planning Condition 3: Tree Protection Measures	Contractor
BD5	Construction	Translocation of important hedgerow sections	Enabling works	Planning Condition 4: Construction Environmental Management Plan	Contractor
BD7	Operation	New ecological ponds	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor / Owner
BD8	Construction	Tree planting in accordance with BS 8545:2014	Landscape planting	Planning Condition 4: Construction Environmental Management Plan	Contractor
BD9	Operation	Provision of bat boxes	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor / Owner
BD10	Operation	Provision of new bat 'hop-overs'	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor
BD12	Construction	Obtain Protected Species Mitigation Licences from Natural England	Pre-construction	Planning Condition 10: Construction Ecological Method Statement	Contractor
BD13	Construction	Obtain a District Level Licence for great crested newts	Pre-construction	Planning Condition 10: Construction Ecological Method Statement	Contractor
BD14	Construction	Creation of new artificial badger setts and the closure of existing badger setts	Enabling works	Planning Condition 20: Landscape and Ecological Management Plan	Contractor
BD15	Construction	Covering of temporary excavations or provision of ramps	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
BD16	Construction	Protection of badger setts	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
BD17	Construction	Pre-construction surveys for badgers to be undertaken	Pre-construction	Planning Condition 10: Ecology / Species Survey	Contractor
BD18	Operation	Creation of new habitat areas specifically for water voles	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor

Mitigation reference	Phase	Mitigation measure	Point of implementation	Measure secured through	Responsible party
BD19	Construction	Displace water vole from the River Granta crossings	Enabling works	Planning Condition 10: Construction Ecological Method Statement	Contractor
BD20	Construction	Use of non-percussive piles for River Granta bridge piles	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
BD21	Construction	Establish a water vole exclusion zone	Enabling works	Planning Condition 10: Construction Ecological Method Statement	Contractor
BD22	Construction	Pre-construction surveys for water vole to be undertaken	Pre-construction	Planning Condition 10: Construction Ecological Method Statement	Contractor
BD23	Operation	Box culvert with mammal ledges for Structure 5	Detailed design	Planning Condition 13: Design and External Finishing	Contractor
BD24	Construction	Pre-construction surveys for otter to be undertaken	Pre-construction	Planning Condition 10: Ecology / Species Survey	Contractor
BD25	Construction	Provision of new reptile and amphibian hibernacula	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor
BD26	Construction	Implementation of a Reptile Mitigation Strategy	Pre-construction	Planning Condition 10: Construction Ecological Method Statement	Contractor
BD27	Construction	Programming of vegetation clearance to avoid bird breeding season	Pre-construction	Planning Condition 10: Construction Ecological Method Statement Planning Condition 6: Vegetation Removal	Contractor
BD28	Operation	Creation of new habitat areas specifically for breeding and wintering birds	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor
BD29	Operation	Creation of new habitat areas specifically for barn owls	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor
BD30	Construction	Programming of works to avoid impacts to kingfisher	Pre-construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
BD31	Construction	Pre-construction surveys for kingfisher to be undertaken	Pre-construction	Planning Condition 10: Ecology / Species Survey	Contractor
BD32	Construction	Implementation of a Great Crested Newt Mitigation Strategy	Pre-construction	Planning Condition 10: Construction Ecological Method Statement Planning Condition 20: Landscape and Ecological Management Plan	Contractor
BD33	Operation	Creation of new habitat for invertebrates	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor

Mitigation reference	Phase	Mitigation measure	Point of implementation	Measure secured through	Responsible party
BD34	Construction	Hand searching for hedgehogs, and toads prior to vegetation clearance	Enabling works	Planning Condition 6: Vegetation Removal	Contractor
BD35	Construction	Hand searching for harvest mice and brown hare prior to vegetation clearance	Enabling works	Planning Condition 6: Vegetation Removal	Contractor
BD36	Construction	Hand searching for polecat prior to vegetation clearance	Enabling works	Planning Condition 6: Vegetation Removal	Contractor
BD37	Operation	Operational lighting design to minimise impacts to wildlife, landscape and visual receptors	Detailed design	Planning Condition 13: Design and External Finishing	Contractor
BD38	Operation	Appropriate design of culverts to protect aquatic habitats / species	Detailed design	Planning Condition 13: Design and External Finishing	Contractor
BD39	Operation	Permanent amphibian fencing	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan Planning Condition 13: Design and External Finishing	Contractor
BD40	Operation	Purchase of BNG credits for rivers and streams metric	Detailed design	Planning Condition 21: Biodiversity Net Gain	Contractor / Owner
BD42	Operation	New wet ditch features	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor
BD43	Operation	Infilled bridge parapets	Detailed design	Planning Condition 13: Design and External Finishing	Contractor
BD44	Operation	Addition of specific seeds to the wildflower meadow mix	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor
BD45	Construction	Watercourse buffer zone	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
Landscape and visual impact					
LV1	Construction	Construction Lighting Plan	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
LV2	Construction	Preservation of tree AT025	Detailed design	Planning Condition 13: Design and External Finishing	Contractor
LV3	Operation	Landscape and Ecological Management Plan	Detailed design	Planning Condition 20: Landscape and Ecological Management Plan	Contractor
Historic environment					
HE1	Construction	Heritage mitigation plan and Written Scheme of Investigation	Pre-construction	Planning Condition 9: Archaeological Investigation Strategy	Contractor

Mitigation reference	Phase	Mitigation measure	Point of implementation	Measure secured through	Responsible party
Population and human health					
PHH1	Construction	Continued public engagement	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
PHH2	Construction	Alternative access	Detailed design	Planning Condition 19: Public Footpaths and Means of Access	Contractor
PHH3	Construction	Drainage and irrigation repairs	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
PHH4	Construction	DNA Path diversion	Throughout construction	Planning Condition 19: Public Footpaths and Means of Access	Contractor
Traffic and transport					
TT1	Construction	Construction Traffic Management Plan	Throughout construction	Planning Condition 4: Construction Environmental Management Plan	Contractor
Climate vulnerability					
CV1	Operation	Road and pavement composition	Detailed design	Planning Condition 14: Busway Details	Contractor
CV2	Operation	Road and pavement drainage	Detailed design	Planning Condition 14: Busway Details	Contractor
CV3	Operation	Structures' resilience to heat	Detailed design	Planning Condition 13: Design and External Finishing	Contractor
CV4	Operation	Soil stability	Detailed design	Planning Condition 14: Busway Details	Contractor
CV5	Operation	Collecting sediment erosion	Detailed design	Planning Condition 14: Busway Details	Contractor
CV6	Operation	Drainage infrastructure resilience to different storm events	Detailed design	Planning Condition 14: Busway Details	Contractor
CV7	Operation	Risk assessment detailed in Section 443 of BS7671:2018	Detailed design	Planning Condition 14: Busway Details Planning Condition 15: Bus Stop Infrastructure Planning Condition 16: A11 Travel Hub Details	Contractor
CV8	Operation	Adherence to Series 3000 (Landscape and Ecology) of the MCHW	Detailed design	Planning Condition 17: Soft and Hard Landscape Works	Contractor
Greenhouse gases					
GG1	Construction / Operation	Carbon Management Plan	Detailed design	Planning Condition 4: Construction Environmental Management Plan	Contractor
GG2	Operation	Bus Engine Specification	Operation	Agreement with bus operators	Owner

Mitigation reference	Phase	Mitigation measure	Point of implementation	Measure secured through	Responsible party
Cumulative effects					
CE1	Construction	Construction programme phasing	Pre-construction	Planning Condition 4: Construction Environmental Management Plan	Contractor

Table A2.7.2 Additional monitoring requirements

Effect being monitored	Monitoring requirements	Point of implementation	Responsible party
Noise from operational buses	Once operational, the measured traffic flow within the study area could be used to confirm the results of the assessment, using a similar approach to the National Highways Post Opening Project Evaluation (POPE) method	Operation	Owner
Impacts to residential amenity in local communities	Regular communication with members of the local community through periodic letter drops will be undertaken which will include information on an established procedure to make comments and complaints, as per mitigation measure PHH1. These complaints will be investigated, and appropriate action will be taken. Additional mitigation will be considered when the monitoring identifies an increase in complaints.	Construction	Contractor
Traffic disruption to emergency services	Monitoring of delays at Francis Crick Avenue will be undertaken by the contractor to ensure there are no undue additional delays for emergency services.	Construction	Contractor
Material origination	The monitoring of responsibly sourced material, as defined under BES6001, will take place for aggregates, concrete, asphalt and steel.	Construction	Contractor
Waste disposal	The monitoring of wastes generated during construction would be carried out through the implementation of a SWMP. This would be produced by the appointed contractor prior to construction and be updated with waste types and quantities removed from Site along with the method of waste management.	Construction	Contractor
Waste disposal	The appointed contractor, as waste producer, must produce a Waste Transfer Note (WTN) for non-hazardous waste removed from Site and a Hazardous Waste Consignment Note (HWCN) for hazardous waste removed from Site. Records of these must be kept for two and three years, respectively. The WTNs and HWCNs would contain details that can be recorded in the SWMP. It is also the responsibility of the waste producer to check that waste is collected by a licensed waste carrier and received at a facility with an appropriate waste permit or exemption.	Construction	Contractor
Waste disposal	The waste producer must characterise wastes prior to their removal from Site. This may require testing and assessment to determine the waste classification: inert, non-hazardous or hazardous. Further testing, in the form of Waste Acceptance Criteria (WAC) testing, may need to be undertaken for wastes requiring disposal at landfill.	Construction	Contractor
Waste disposal	The origin, quantity and suitability of excavated materials must be monitored during construction. The re-use of significant quantities of Site-won materials means a tracking system is required (as part of the MMP) to ensure that materials and wastes are effectively segregated and that only chemically and geotechnically suitable materials are used in construction.	Construction	Contractor