

# Draft Schedule of Mitigation

## Rail Central Rail Freight Interchange and Highway Order 201X

Ashfield Land Management and Gazeley GLP Northampton s.à.r.l.

March 2018

This Schedule sets out the mitigation controls and other best practice measures identified in the PEIR and lists where those controls and measures will be enforced in the Schedule 2 requirements and the S106 Agreement. It is separated into sections as follows below. It should be noted that both embedded and adaptive mitigation will be required as part of the Proposed Development – however, embedded mitigation includes measures that have been considered to form an integral part of the Proposed Development for the purpose of this PEIR (i.e. pre-assessment). Adaptive mitigation measures are those that were included to mitigate a particular identified effect.

- **Management Plans as Embedded Mitigation** – for example the Construction Environmental Management Plan (CEMP) and associated Plans and Method Statements which contain principles which will guide the operations of the Principal Contractor during construction and operators/ site management during operation. As these will be an obligation on the contractor it is assumed measures outlined therein form part of the Proposed Development.
- **Law as Embedded Mitigation** – any requirements that have to be met as a matter of law (such as compliance with waste management regulations or environmental permitting regulations) are considered as embedded mitigation.

- **Design Evolution as Embedded Mitigation** – where the design of the Proposed Development itself creates some environmental benefit, as addressed within **Chapter 3: Reasonable Alternatives** in the PEIR.
- **Good Practice as Embedded Mitigation (specific measures built into CEMP)** – these measures are not plans as such, but measures built into the CEMP to address a certain identified effect.
- **Management Plans as Adaptive Mitigation (details dependent on further work)** – some Management Plans that are proposed are dependent on further work. For example, planting plans and Habitat Management Plans are not currently developed as further site design is required. They cannot therefore currently be relied on to deliver the identified mitigation so are adaptive rather than embedded.
- **Design Evolution as Adaptive Mitigation (details dependent on further work)** – certain aspects of the Proposed Development have been introduced specifically to mitigate an identified effect, rather than as an integral part of the design.
- **Good Practice Measures not relied on in Assessment as Mitigation** – certain measures have not been relied on in the PEIR as their delivery cannot be guaranteed, or success is uncertain. If delivered these would provide environmental benefit, but they are not assumed to mitigate a certain environmental effect.

Further details of particular plans and proposals are provided in the relevant technical chapters.

Further actions to be undertaken for the DCO submission include

- completion of how the mitigation measures to be undertaken will be implemented and secured, for example, in which document they are best placed. This is currently under discussion with regulators and advice and comments within this consultation period will be welcome.
- further cross referencing of the measures outlined within each chapter to ensure appropriate mitigation for identified effects is included and that all proposed mitigation is carried over to this document. Paragraph/ section cross references with the final ES will be included.

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
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**Management Plans as Embedded Mitigation**

<p>Construction Environmental Management Plan (CEMP) – Principal Contractor to follow principles in the CEMP and develop management plans/ schemes of work based on them (e.g. SWMP, dust management plan, PPMS etc.). Measures to be put in place to prevent pollution and environmental impact during construction –e.g.</p> <ul style="list-style-type: none"> <li>• following an Environmental Management System</li> <li>• controls on work hours</li> <li>• surface water contamination,</li> <li>• fuels, lubricants and chemical storage,</li> <li>• noise and dust controls,</li> </ul>	Embedded	Environmental effects during construction including noise and vibration, lighting, dust control, pollution control and controls on vegetation removal.	Throughout	CEMP – Requirement of DCO	
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<sup>1</sup> More detailed cross reference to be provided in final DCO submission

<sup>2</sup> To be provided in final DCO submission

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- spillage procedure
- buffering/ fencing of habitat and trees
- staff training
- traffic mitigation such as access from A43 Only

CEMP will be secured through a requirement in the DCO but can be varied to add detail with agreement of the Local Planning Authority. It is likely other management plans will form part of this CEMP.

Code of Construction Practice (CoCP) – (relationship with CEMP to be clarified for final DCO submission) – this will outline the overarching principles to feed into the CEMP.	Embedded	Environmental effects during construction	Throughout	CEMP – Requirement of DCO	
Site Waste Management Plan (SWMP) – management of waste so as to minimise waste during the construction, operational and decommissioning phases including the recycling	Embedded	Waste arising from construction	Waste Chapter Utilities Chapter Major Accidents and	CEMP	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
and re-use of equipment, storage and transport of waste.			Disasters Chapter		
Materials Management Plan (MMP)	Embedded	Management of materials arising from construction (earthworks etc)	Ground Conditions Chapter	CEMP	
Pollution Prevention Method Statement (PPMS) – ensure measures are in place to prevent pollution of surface water, groundwater, soil or air as a result of the operations. Including measures to protect controlled waters from silting, storage of oil fuel and chemicals, use of appropriate interceptors and drainage etc.	Embedded	Control of construction to minimise pollution	Ground Conditions Chapter  Hydrology, Drainage & Flood Risk Chapter  Biodiversity Chapter  Major Accidents and Disasters Chapter	CEMP	
Dust Management Plan – including a range of dust control and mitigation measures including using enclosed chutes, use of dust suppression facilities and dampening down of potentially dusty areas (to reduce suspended particulate matter concentrations and deposited dust) wheel	Embedded	Dust arising from construction	Air Quality Chapter  Ground Conditions Chapter	CEMP	

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washing and road sweeping.

Archaeological work according to Written Scheme of Investigation. Written guidelines to be issued to Contractors containing arrangements for calling upon retained professional support on the event that buried remains of potential archaeological interest should be discovered.	Embedded	Loss of archaeological resource	Archaeology Chapter	CEMP - WSI to be agreed with NCC	
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Remediation Method Statement - requirements with regards to unexpected contamination (e.g. patches of oil not identified during the ground investigation, asbestos containing material, ground gases including radon), requirements with regards to legislation and standards and the requirement of the Contractor to undertake appropriate Health and Safety Risk Assessments, and mitigation measures. Emergency procedures would be included.	Embedded	Risks during site remediation of contaminated land.	Ground Conditions Chapter	CEMP	
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Indicative contents outlined in Draft RMS in **Appendix 13.8** of PEIR.

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
Ecology Method Statements – e.g. protection of retained section of brook, exclusion of Great Crested Newt, protection of breeding birds, retained trees and hedgerows.	Embedded	Effect arising from construction work that could harm particular species/ habitat.	Biodiversity Chapter	CEMP	
Construction and Operational Lighting Plan – ensuring safe and environmentally sensitive lighting, such as maintaining dark-corridors for bats, and use of lamps with minimal or zero ultra violet (UV) emission, minimising lighting around water bodies and hedges, turning off lights when not in use and avoiding light spillage by positioning lighting below the horizontal.	Embedded	Effect of lighting on e.g. bats and birds.  Overspill of light from site	Lighting Chapter  Biodiversity Chapter  Landscape and Visual Chapter	Construction and Operational Lighting Plan/ Lighting Management Plan	
Luminaire choice must be appropriate.					
Construction Noise Management plan- processes to minimise construction noise including avoiding revving of engines, switching off unnecessary equipment, installing silencers etc. Including processes to alert residents of operations and staff training.	Embedded	Construction noise effects on nearby receptors	Noise and Vibration Chapter	CEMP	

**Law as Embedded Mitigation**

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
Operation in accordance with appropriate licences, monitoring protocols and emergency procedures to report unexpected pockets of contamination/ asbestos	Embedded	Risk of unanticipated contamination	Ground Conditions Chapter  Major Accidents and Disasters Chapter	Requirement of statute	
Drainage strategy – all water to be discharged under licence to surface water (Environmental Permit), or to sewer. Design of drainage in accordance with BRE364, to ensure protection of groundwater.	Embedded	Risk of uncontrolled drainage. Risk of pollution of water	Ground Conditions, Hydrology, drainage and flood risk.	Requirement of statute	
An Environmental Permit will be required to undertake the remediation at the site, for construction works regarding waste / water discharge / groundwater.	Embedded	Risk of uncontrolled Waste/ Water management	Ground Conditions Chapter  Hydrology, Drainage and Flood Risk Chapter	Requirement of statute - Environmental Permitting (England and Wales) Regulations 2016	
Consent to Discharge to sewer and abstraction licence required if needed	Embedded	Environmental effects of uncontrolled discharge to sewer or water abstraction	Hydrology, Drainage and Flood Risk Chapter	Requirement of statute - Water Resources Act 1991	



Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
Land Drainage Consent required for obstructions to the flow of water in an ordinary watercourse (i.e. not a main river).	Embedded	Risk of flooding and harm to watercourse resulting from works in or near the watercourse.	Hydrology, Drainage and Flood Risk Chapter	Section 23 Land Drainage Act 1991	
Asbestos removal works to be undertaken in accordance with Control of Asbestos Regulations 2012 (CAR)	Embedded	Risk of harm to Contractors during demolition from asbestos	Ground Conditions	Requirement of statute - Control of Asbestos Regulations 2012 (CAR)	
No work to harm European Protected Species or badger without a licence	Embedded	Protection of European Protected Species and badgers	Biodiversity Chapter	Requirement of Statute - The Conservation of Habitats and Species Regulations 2010  Section 10 of the Protection of Badgers Act 1992	
Applicant would need to book time on the highway through a permit so as to coordinate works.	Embedded	Works on highways causing disturbance to traffic flow, or cumulative	Utilities Chapter  Highways and	Requirement of Statute - Traffic Management Act	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
		disturbance to highways	Transportation Chapter	2004	
Diversion of utilities during construction will be undertaken by statutory undertakers in accordance with their statutory duties.	Embedded	Risk of accidents during diversion of utility services	Major Accidents and Disasters Chapter  Utilities chapter	Requirement of statute	
All operators will be required to maintain statutory compliance within the proposed development with controls specific to the materials they are responsible for. Freight services will be provided by suitably approved and regulated Freight Operating Company (FOCs). Should hazardous substances or those that require regulation under COMAH be stored on site, the appropriate permits, approvals and operating practices would have to be implemented by the relevant operator.	Embedded	Risk associated with “dangerous” operations on site including operation of rail freight, COMAH sites etc.	Major Accidents and Disasters Chapter	Requirement of statute	
<b>Design Evolution as Embedded Mitigation</b>					
Development parcels and building limit line. Set back of buildings from Milton Malsor & Blisworth and Northampton Road	Embedded	Limits on construction footprint to minimise effects on landscape & visual, noise, built	Throughout	Parameters Plan (Main SRFI Site)	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
		heritage, biodiversity etc.			
Landscape and acoustic mitigation mounding with the minimum heights shown on the Green Infrastructure Plan.	Embedded	Effects on landscape, noise, built heritage by provision of permanent screening.	Throughout – especially Noise and Vibration Chapter  Landscape and Visual Chapter  Built Heritage Chapter  Lighting Chapter	Green Infrastructure Plan	
Limits on building heights and sensitive colouring of buildings  (detailed design to be finalised at a later stage in accordance with the principles provided in the Design and Access Statement)	Embedded	Visual impact from receptors and landscape impact  Landscape and Visual effects as a result of building design.	Throughout – Landscape and Visual Chapter  Built Heritage	Design & Access Statement, Parameters Plan	
Geotechnical design - Slopes facing in towards the Proposed Development will be a maximum of 1 in 3, to ensure that the proposed mounding	Embedded	Effects on landscape, noise, built heritage by provision of permanent	Throughout	Geotechnical Design Reports and Earthworks	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
<p>can achieve the intended level of visual mitigation of key views towards the development and also support structural vegetation. External slopes will be kept to a maximum slope of 1 in 5. All topsoil to be retained on site with no requirement to import or export soil during earthworks.</p> <p>All geotechnical works to be carried out in accordance with an appropriate Geotechnical Design Reports and Earthworks Specifications.</p>		screening.		specifications	
<p>Green infrastructure at Main SRFI Site and J15a, including general locations of retained vegetation and new woodland and hedgerow planting / native structural planting belts in keeping with the local landscape character to visually screen Main SRFI Site from north and south. Connectivity for wildlife through the creation of a matrix of different habitats including new and retained waterbodies, hedgerows, ditches, culverts and woodland. (detailed design as adaptive mitigation).</p>	Embedded	Effects on landscape and biodiversity by minimising habitat loss and loss of green corridors.	<p>Throughout – especially Landscape and Visual Chapter</p> <p>Built Heritage Chapter</p> <p>Biodiversity Chapter</p>	Green Infrastructure Plan	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
Strategic woodland planting belt to the south and west of proposed link road route.					
Grading and reinstatement of verges at Other Highway Works – reseeded of grassland and additional planting	Embedded	Effects on landscape and biodiversity from construction works	Landscape and Visual Chapter,  Biodiversity Chapter	TBC	
Pocket Park at Arm Farm/ Northampton Road Greenway – provision of publicly accessible green space providing mitigation from visual and landscape impacts and improving biodiversity benefit  (detailed design as adaptive mitigation).	Embedded	Effects on landscape and visual impact around A43 and on Northampton Road – loss of PROWs	Throughout – especially Landscape and Visual Chapter, Built Heritage Chapter and Biodiversity Chapter	Green Infrastructure Plan	
Specific ecological mitigation area at J15a – to include retention of vegetation and new planting. Retained vegetation will be protected during highway works, and new landscaping will be established as soon as possible after works (detailed design as adaptive mitigation).	Embedded	Habitat loss at Main SRFI Site and J15a	Throughout – especially Biodiversity Chapter	Green Infrastructure Plan	
Attenuation ponds – to correct capacity/design for their intended purpose) to ensure any	Embedded	Risk of flooding and to ensure appropriate	Throughout – especially	Parameters Plan	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
surface water drainage is designed to ensure post development peak run-off rates will not increase from the existing conditions and as such will result in no increase of flooding, and to minimise risk of silting in adjacent watercourses etc.		surface water drainage	Hydrology, Drainage and Flood Risk Chapter  Ground Conditions Chapter	Drainage Strategy	
Surface water drainage system to intercept flows and provided a restricted outfall to surrounding networks (namely the Milton Malsor Brook) to mimic existing conditions. No soakaways in Made Ground.	Embedded	Mitigate loss of soil and avoid flooding and pollutants entering surface water	Hydrology, Drainage and Flood Risk Chapter  Ground Conditions Chapter	Drainage Strategy	
Diversion of the existing sewer, and localised upsizing in order to provide sufficient capacity.	Embedded	Lack of available capacity within receiving foul sewer network	Hydrology, Drainage and Flood Risk Chapter	Drainage strategy	
Realignment of Milton Brook and Unnamed Watercourse in the route shown. Channel geometry to provide suitable capacity for all flood events up to and including the 1 in 1,000 year extreme flood event. Culvert crossings kept to a minimum (2 no new crossings) and	Embedded	Risk of flooding and biodiversity impacts arising from Proposed Development. Loss of Floodplain Storage as a result of ground	Hydrology, Drainage and Flood Risk Chapter  Biodiversity Chapter	Green Infrastructure Plan/ Watercourse design	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
appropriately sized		reprofiling			
Creation and diversion of footpaths and cyclepaths including the additional cycleway between Milton Malsor and Blisworth. Screening with hedges and tree planting	Embedded	Loss and diversion of existing public rights of way.  Promotion of sustainable travel to mitigate traffic numbers (staff travel)	Throughout – especially Highways and Transportation Chapter Socioeconomics Chapter and Landscape and Visual Chapter	Parameters Plan	
Site access taken from A43 (except for pedestrian/ cycle access or emergency access)	Embedded	Effect on Northampton Road and Milton Malsor/ Blisworth from construction and operational traffic	Throughout – especially Highways and Transportation Chapter	CEMP (TMP & OTMP)	
Use of rail to deliver some bulk material for construction	Embedded	Construction traffic effects	Highways & Transportation Chapter	(TBC)	
All highway works including J15a to ensure existing junctions remain operational during construction.	Embedded	Effect on road network/ traffic flow & congestion during construction. Associated air pollution	Highways and Transportation Chapter  Air Quality chapter	Phasing plans (TBC)	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
Highway works to result in junctions with increased capacity to minimise congestion at identified junctions on the road.	Embedded	Effect on road network and junction capacity as a result of Proposed Development	Throughout – especially Highways and Transportation Chapter  Air Quality chapter	Order Limits	
Incorporation of bus interchange, bus stops, appropriate number of car and cycle parking spaces and provision of showers, lockers and changing areas	Embedded	Encourage sustainable transport to reduce car use	Highways and Transportation Chapter  Human Health Chapter  Socioeconomic Chapter	FTP	
Lighting throughout the site to enhance personal security and encourage walking and cycling to and through the site.	Embedded	Encourage sustainable transport to reduce car use	Lighting Chapter  Socioeconomic Chapter  Highways and Transportation Chapter	Lighting Management Plan	
Location of construction compounds for Minor Highway Works on highway land. Construction works for Minor Highway Works to be undertaken in highway land except at Tove	Embedded	Landtake at junctions and associated visual and physical effects.	Throughout – especially: Landscape and Visual	CEMP and Order Limits	



Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
Roundabout and Abthorpe Roundabout.			Chapter  Biodiversity Chapter  Archaeology Chapter  Highways & Transportation Chapter		
Mitigation against adverse crime effects - ensuring that the layout does not create an environment conducive to crime  Intermodal Terminal operated as a Restricted Zone.  Public areas designed to ensure good lighting, overlooking, safe access/ road design and secure development.	Embedded	Risk of crime and injury caused by site design/ nature.	Socioeconomics Chapter  Lighting Chapter	Design and Access Statement	
Retention of barns on Main SRFI Site and J15a Site for bats (restoration included as adaptive mitigation)	Embedded	Loss of bat and barn owl roosts	Biodiversity Chapter	Parameters Plan	
Maintenance of an easement Zone for the pipeline in the south-west corner of the Main	Embedded	Construction/ maintenance impact of	Landscape and Visual Chapter	Parameters Plan	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
SRFI Site.		pipeline	Utilities Chapter  Major Accidents and Disasters Chapter		
Services provided in multi-service trenches.	Embedded	Construction impact of multiple trenches.	Utilities Chapter  Major Accidents and Disasters Chapter	(TBC)	
Routeing of utilities underground and screening above-ground infrastructure carried out by statutory undertakers or workmen in possession of relevant training and permits.	Embedded	Visual impact of above ground services.  Risk of accidents arising from utility works	Utilities Chapter  Major Accidents and Disasters Chapter	(TBC)	
<b>Good Practice as Embedded Mitigation (specific measures built into CEMP)</b>					
Construction good practice including hygiene precautions, use of PPE, correct storage of chemicals, measures to avoid noise, dust etc.	Embedded	Environmental effects during construction including noise and vibration, lighting, dust control, pollution control and controls on	Throughout	CEMP – Requirement of DCO	

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vegetation removal.

Utility connection/disconnection works to be conducted at periods of low service network usage (i.e. at night) to reduce the likelihood of network outages. Also carry out roadworks at night where possible.	Embedded	Disturbance to service users from outages of utility services	Utility Chapter	CEMP – Requirement of DCO	
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Use a dedicated site maintenance team to effectively maintain and monitor significant maintenance works so as to mitigate severe equipment failures.	Embedded	Disturbance to service users from outages of utility services	Utility Chapter	CEMP – Requirement of DCO	
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**Management Plans as Adaptive Mitigation (details dependent on further work)**

15-year Management and Maintenance Plan – combined landscape and ecological plan to ensure ongoing maintenance of final agreed planting/ habitat creation. Including establishing aims and objectives for management process for e.g. Ecology Mitigation Zone at J15a, Arm Farm Pocket Park.	Adaptive	Ensuring ongoing maintenance of screening planting for landscape and habitat/ecological benefit.	Landscape and Visual Chapter Built Heritage Chapter Biodiversity Chapter	15-year Soft Landscape Maintenance, Ecological Enhancement and Overall Management Plan for the Main STRI Site	
Outlining a process for monitoring, including		Strategic planting groups of larger sized trees for instant impact, and			

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timescales for monitoring, reporting requirements and addressing any required remediation works.		<p>evergreens for year round screening from sensitive views.</p> <p>Management of retained hedgerows.</p> <p>Loss of veteran trees</p>			
<p>Habitat Management Plan – to outline proposals for management of specific ecology mitigation measures, including pre-construction surveys, and proposals for mitigation area at J15a, management plans for different habitat and species types, including hedgerows (invertebrates, bats and small mammals), ponds (great crested newts), scarce plants, trees (including deadwood veteran trees for invertebrates, small mammals and birds) etc.</p> <p>To tie into planting plan, hydrological work (e.g. stream diversion and drainage strategy), climate change plans (e.g. use of rainwater for irrigation) and 15 year management and monitoring plan.</p>	Adaptive	Failure of habitat to establish. Including procedures for hedges, woodland, grassland, wetland, watercourses etc.	Biodiversity Chapter	Habitat Management Plan	

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Use of native species of local provenance including local seed banks.

Suggested contents included in Biodiversity Chapter, to be refined following further surveys.

Construction Traffic Management Plan (TMP) – to be agreed with Principal Contractor	Adaptive	Effects of construction traffic on the highway	Highways and Transportation Chapter	TMP	
Aim to minimise the effect of the construction phase on local residents, businesses and the highway network. It will contain a package of agreed mitigation measures which could include traffic routeing, sustainable travel initiatives, car parking, limits to site operational hours during construction etc.					
Operational Traffic Management Plan (OTMP)	Adaptive	Effects of operational traffic on the highway	Highways and Transportation Chapter	OTMP	
Framework Travel Plan (FTP) to be agreed in advance of occupation to promote use of modes of transport other than the private car. Targets to be set, with a monitoring regime in place over	Adaptive	Promotion of sustainable travel to mitigate traffic numbers (staff travel)	Highways and Transportation Chapter	FTP	

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a ten year implementation period.

Soil Resources Management Plan and Soil Management Plan – to record existing soil resources, ensuring that they are handled, stored and replaced according to good practice. Ensure soils that are re-used within the Order Limits will be used for their most suitable purposes in the detailed design and will be able to continue to fulfil their various ecosystem functions.	Adaptive	Loss of soil quality and agricultural land at Main SRFI Site and J15a.	Agricultural Land Chapter	Soil Resources Management Plan	
Noise management plan to ensure that employees are trained to recognise and reduce any potentially noisy activities that may arise as a result of normal operations, and programme of noise monitoring	Adaptive	Noise arising from operations	Noise and Vibration Chapter	Noise Management Plan	
Facilities Management Plan will address how operational mitigation (for example, segregation of waste) will work in practice.	Adaptive	Operational effects arising from facilities management	Waste Chapter	Facilities Management Plan	
<b>Design Evolution as Adaptive Mitigation (details dependent on further work)</b>					

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
<p>Planting and Landscaping Plan of detailed new planting to provide biodiversity, landscape and air quality benefit:-</p> <p>including strategic planting groups of larger sized trees for instant impact, and evergreens for year round screening from sensitive views. To include variety of species with native provenance. To include species with air quality improvement capacity.</p> <p>Species/ planting plans to be developed with ecological considerations, and to include a variety of species. Planting mixes to differ around the site (e.g. grassland, hedges) using seeds/ specimens of local provenance</p>	Adaptive	Loss of habitat, visual impacts, air quality impacts of Proposed Development	Throughout	Planting and landscaping plan	
Drainage system to include use of swales (in addition to attenuation ponds) where possible, to be incorporated into biodiversity enhancements.	Adaptive	Loss of on-site drainage. Loss of habitat	Hydrology, Drainage and Flood Risk Chapter Biodiversity Chapter	Habitat Management Plan	
Renovation and repair of barns to provide long-term roosting opportunities for a number of bat species, and provide other roosts in place well in	Adaptive	Loss of habitat for birds and bats	Biodiversity Chapter	EPS licence	

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advance of the demolition of the existing roosts in order for the bats on site to discover the new roosting opportunities and to start using them.

Ecology Mitigation area at J15a – detailed proposals to be refined through further surveys, but likely to include a mixture of field sizes and shapes with new hedges, including small interlinked fields separated by substantial areas of wet scrape or willow scrub. Areas suitable for farmland birds, bats, small ponds to provide suitable habitat for great crested newt, a hedgerow network, new nesting and foraging habitat for birds and general habitat creation proposals.

Incorporation and maintenance of a variety of different types of bird boxes and bat boxes throughout the site and available prior to loss of existing roosts/ nests.

Further suggestions provided in Biodiversity Chapter.

Adaptive

Loss of habitat at Main SRFI Site and partial potential wildlife site at J15a

Biodiversity Chapter

Habitat Management Plan



Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
Acoustic screens – approx. 6m	Adaptive	Noise at identified receptors as a result of construction and operational noise (near Northampton Road, rail lines/ intermodal terminal and south east of Milton Malsor.	Noise and Vibration Chapter	Noise Management Plan	
Design of site and operations to minimise noise – e.g. staff training, location and design of mechanical ventilation and cooling plant zones to include silencers and acoustic enclosures, electric standby modes for noisy equipment etc.	Adaptive	Noise arising from operations	Noise and Vibration Chapter	Noise Management Plan	
<b>Good Practice Measures not relied on in Assessment as Mitigation</b>					
Staff travel planning to include modern vehicle fleet, car share, sustainable transport.	Other measure	NO <sub>2</sub> , PM <sub>10</sub> and PM <sub>2.5</sub> concentrations from traffic generated by development	Air Quality Chapter	FTP	
Provision of electric charging points for staff	Other	Reduction in local air quality emissions (and	Air Quality Chapter	(TBC) – final site	

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vehicles	measure	greenhouse gas) caused by traffic	Climate Change Chapter	design	
Monitoring of vehicles types i.e. Euro Class	Other measure	Reduction in local air quality emissions (and greenhouse gas) caused by traffic.	Air Quality Chapter	(TBC)	
Operation according to a Local Employment Scheme to deliver employment, skills and training benefits. This will include measures covering activities at the construction and operational stages of the Proposed Development. Measures outlined in Socioeconomic chapter.	Other measure	Skills shortage in local area	Socioeconomics Chapter	TBC	
Landscaping fund for local residents to increase planting in gardens	Other measure	Residual effect on landscape/ visual receptors	Landscape and Visual Chapter	TBC	
Additional landscaping and biodiversity enhancements in addition to mitigation of identified effects to aid integration into the landscape to be agreed with SNC / Highways England.	Other measure	Residual effect on landscape/ visual and biodiversity receptors	Landscape and Visual Chapter  Biodiversity Chapter	TBC	

Mitigation Measure	Embedded/ adaptive	Effect to mitigate	Where in ES/PEIR <sup>1</sup>	Where placed to secure	Schedule 2 requirement number or S.106 reference <sup>2</sup>
Healthy Workplace Features/ Health Action Plan	Other measure	Further improve health of workforce	Human Health Chapter	TBC	

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