Peartree Hill Solar Farm

Outline Construction Environmental Management Plan

Revision ~~6~~7 (tracked)

Planning Act 2008

Infrastructure Planning

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Contents

1 Introduction

1.1 Purpose of this document

1.1.1 Peartree Hill Solar Farm (hereafter referred to as the 'Proposed Development') comprises the construction, operation (including maintenance) and decommissioning of a solar photovoltaic (PV) electricity generating and storage facility with an export capacity of up to 320 megawatts (MW) and associated infrastructure, as described within **Environmental Statement (ES) Volume 1, Chapter 3: Proposed Development Description [EN010157/APP/6.1]** and **Schedule 1** of the **Draft Development Consent Order (DCO) [EN010157/APP/3.1]**.

1.1.2 The Proposed Development is located within the 'Order Limits', which set out the maximum extent within which the Proposed Development can be carried out, and encompasses an area of approximately 893 hectares (ha) within East Riding of Yorkshire (the 'Site') as shown on the **Location and Land Area Plan [EN010157/APP/2.1]**.

1.1.3 The Proposed Development consists of five areas of land (Land Areas B-F – there is no Land Area A), interconnecting underground cables between the Land Areas, a 132kV underground cable route to National Grid Creyke Beck Substation (referred to as the grid connection cable route), and sections of highway land. These are shown in **ES Volume 3, Figure 1.2: Land Areas and Cable Routes Plan with Field Numbering System [EN010157/APP/6.3]**.

1.1.4 The proposed indicative layout of the Proposed Development during the construction phase is shown on **ES Volume 3, Figure 3.5: Indicative Construction Layout Plan [EN010157/APP/6.3]**.

1.1.5 In accordance with the requirements in **Schedule 2** of the **Draft DCO [EN010157/APP/3.1]**, no part of the Proposed Development is to be commenced until the Construction Environmental Management Plan has been submitted to and approved by the local planning authority (East Riding of Yorkshire Council). The Construction Environmental Management Plan must be in substantial accordance with this Outline Construction Environmental Management Plan (Outline CEMP) and construction of any part of the Proposed Development must be carried out in accordance with the Construction Environmental Management Plan that has been approved for that part.

1.1.6 This document does not address measures for the operation (including maintenance) or decommissioning phases, which are provided in the separate

Outline Operational Environmental Management Plan (Outline OEMP) [EN010157/APP/7.3] and the **Outline Decommissioning Environmental Management Plan (Outline DEMP) [EN010157/APP/7.4]** respectively.

1.1.7 Likely significant effects have been identified through the Environmental Impact Assessment (EIA) process and are reported in the **ES [EN010157/APP/6.1-6.4]**. A range of best practice mitigation and construction methodology measures were accounted for in the assessments, and these will be implemented during construction of the Proposed Development. This Outline CEMP sets out how these measures will be implemented. It also sets out the monitoring activities designed to ensure that mitigation measures are carried out, and that they are effective.

1.1.8 This Outline CEMP has been prepared with the objective of compliance with the relevant legislation and mitigation measures identified through the EIA process.

1.1.9 The Construction Environmental Management Plan(s) will be prepared following the appointment of a Principal Contractor, prior to construction of the Proposed Development commencing.

1.1.10 The Principal Contractor will be responsible for working in accordance with the environmental controls documented in this Outline CEMP. The overall responsibility for implementation of the Construction Environmental Management Plan(s) will lie with the appointed Principal Contractor as a contractual responsibility to RWE Renewables UK Solar and Storage Limited ('the Applicant'), as the Applicant is ultimately responsible for compliance with the DCO.

1.1.11 **Table 1-1** outlines the other outline environmental management plans that are secured in Schedule 2 of the **Draft DCO [EN010157/APP/3.1]** and have been prepared as part of the DCO application. Detailed versions of these plans will be prepared prior to construction of the Proposed Development.

Table 1-1: Other management plans

Management Plan	Purpose	Phase	Document reference
Outline OEMP	Sets out how potential environmental effects would be minimised and mitigated for during the operation (including maintenance) phase.	Operation (including maintenance)	**[EN010157/APP/7.3]**
Outline DEMP	Sets out how environmental effects	Decommissioning	**[EN010157/APP/7.4]**

Management Plan	Purpose	Phase	Document reference
	would be minimised during decommissioning.		
Outline Landscape and Ecological Management Plan (Outline LEMP)	Sets out how landscape and ecological effects would be minimised and mitigated for during the operation (including maintenance) phase.	Construction Operation (including maintenance)	**[EN010157/APP/7.5]**
Outline Battery Safety Management Plan	Sets out the key measures to minimise the chances of a battery fire event and fire spread in the event of a fire. Sets out the proposed operational response to a fire event.	Construction Operation (including maintenance) Decommissioning	**[EN010157/APP/7.6]**
Outline Construction Traffic Management Plan (Outline CTMP) including Appendix A – Outline Travel Plan	Sets out how construction traffic and staff vehicles would be managed during construction.	Construction	**[EN010157/APP/7.7]**
Outline Soil Management Plan (Outline SMP)	Sets out the overall approach to managing soil resources affected by the Proposed Development.	Construction Operation (including maintenance) Decommissioning	**[EN010157/APP/7.8]**
Outline Rights of Way and Access Management Plan	Sets out how public rights of way (PRoW) would be managed to ensure they remain safe to use, and disruption to users of the PRoW is minimised.	Construction Operation (including maintenance)	**[EN010157/APP/7.9]**

Management Plan	Purpose	Phase	Document reference
Outline Site Waste Management Plan (Outline SWMP)	Sets out how the Proposed Development would manage waste efficiently including measures to prevent and minimise waste.	Construction	**[EN010157/APP/7.10]**
Archaeological Management Strategy (AMS)	Sets out the management of archaeological remains, both known and currently unknown, during construction.	Construction	**[EN010157/APP/7.11]**

2 Proposed Development

2.1 Construction programme

2.1.1 The construction phase is anticipated be undertaken over a 24-month period, and subject to being granted consent, the earliest construction is anticipated to start is in 2026.

2.1.2 The final programme will depend on the detailed layout design and potential environmental constraints on the timing of construction activities. An indicative overview of the final construction programme will be set out in the Construction Environmental Management Plan(s) for information.

2.2 Construction activities

2.2.1 The Proposed Development is described in **ES Volume 1, Chapter 3: Proposed Development Description [EN010157/APP/6.1]** and Schedule 1 of the **Draft DCO [EN010157/APP/3.1]**, where the "authorised development" is divided into work packages. The work numbers for those packages are identified below and correspond to the **Works Plans [EN010157/APP/2.2]**.

2.2.2 The types of construction activities that would be required to construct the Proposed Development comprise (not necessarily in order):

Preparatory works

- Establishment of and/or works to site access points;
- Installation of any temporary/permanent culverts under watercourses/ditches;
- Installation of span bridges;
- Stripping of topsoil, trenching (if required), storage and capping of soil;
- Construction of any access tracks and laydown areas within the Site;
- Establishment of construction compounds;
- Establishment of mobilisation areas, running tracks and temporary construction compounds for cable installation;
- Erection of security fencing around the Site perimeter, as well as access gates;
- Installation of security measures such as CCTV;
- Delivery of plant and machinery to the Site; and

- Delivery of materials to enable the first phases of construction.

Construction of Proposed Development infrastructure

- Solar PV module installation;
- Installation of solar PV module support structures;
- Mounting of solar PV modules;
- Installation of supporting infrastructure, including inverters, transformers, DC-DC converters and switchgear;
- Installation of the BESS;
- Construction of the two on-site substations, including groundworks, foundations and installation of electrical components;
- Installation of storage containers;
- Installation of construction drainage with pumping (if required); and
- Site establishment and habitat creation.

Cable installation

- Site preparation;
- Set up of temporary construction compounds;
- Stripping of topsoil in sections;
- Trenching and installation of cabling;
- Cable joint installation;
- Implementation of crossing methodologies for watercourses, roads and railway, where required (e.g. HDD); and
- Reinstatement works where necessary.

3 Roles and responsibilities

3.1.1 The Principal Contractor shall make available sufficient time and resource for the effective management of environmental risks that could arise during construction work. This includes appointing adequately qualified personnel with knowledge and capability in the environmental management of construction site works. Persons having responsibility for environmental site management, and in particular any persons required to undertake and oversee response to any incidents with potential environmental consequences, shall be empowered to make decisions and take appropriate action necessary to avoid or mitigate adverse environmental effects, even when this may lead to delay and/or additional cost to the Principal Contractor.

3.1.2 The Applicant, and all appointed contractors will be responsible for ensuring that the potential risks to the environment are adequately avoided or controlled by the application of measures as documented with the Construction Environmental Management Plan(s), which shall be complied with throughout construction. The main organisations and persons involved in the construction stage works are set out in **Table 2-1**. The key roles and responsibilities during the construction phase in managing environmental impacts will likely include, but are not limited to:

- **Site Manager –** Overall responsibility for activity onsite and will be based onsite full time.
- **Construction Project Manager –** Overall responsibility for ensuring all elements in the DCO, Construction Environmental Management Plan(s) and all environmental, legal and other requirements are implemented, and appropriately resourced, managed, reviewed and reported.
- **Environment Manager -** Responsible for the overall management of environmental aspects on site, ensuring environmental legislation and best practices are complied with, and environmental mitigation and monitoring measures identified in the Construction Environmental Management Plan are implemented. The Environmental Manager will oversee environmental monitoring on-site and carry out regular environmental site inspections, reporting and responding to any incidents or non-compliance. The Environment Manager will liaise with relevant environmental bodies and other third parties as appropriate.
- **Environmental Advisor –** Oversee the management of and provide advice about environmental and ecological risks during construction including for example, management of protected species, surface water management, air quality and noise.

- **Ecological Clerk of Works (ECoW) –** Management of the risks to biodiversity on site, advising how to protect valued biodiversity features and providing practical solutions.
- **Flood Warden –** There will be a dedicated responsibility to be prepared for, and manage, the response to flood incidents.
- **Health and Safety Manager –** Responsible for the monitoring and controlling of health and safety compliance and related rules and regulations on-site.
- **Community Liaison Officer –** A Community Liaison Group will be set up prior to construction and will continue through until final commissioning of the Proposed Development as a formal forum for local issues to be raised. A Community Liaison Officer will be appointed to lead discussions with local communities and also act as the primary point of contact should there be any queries or complaints.

3.1.3 These roles and responsibilities are indicative and will be confirmed in the Construction Environmental Management Plan(s).

Table 2-1: Roles and responsibilities

Process Task	Role								
	Project Manager	Site Manager	Health and Safety Manager	Environmental Manager	Environmental Advisor	ECoW	Flood Warden	Community Liaison Officer	All Staff / Contractors
Developing and maintaining the Construction Environmental Management Plan.	R	A	C	R	M	M	M	M	I
Monitor environmental aspects through review of construction method statement, identify and control issues.	R	A	C	R	M	M	M	M	I
Monitoring construction works to ensure any necessary environmental issues and control measures are in place; ensuring they are effectively communicated, appropriate and implemented on site. Ensuring the work is performed by trained and qualified staff; and providing training where necessary.	R	A	C	R	M	M	M	M	I
Ensuring the adequate resources are allocated for environmental management.	R	A	I	R	M	M	M	M	I
Ensuring that all relevant environmental documentation and information (including permission, consents, permits and assessments) is communicated.	R	A	C	R	M	M	M	M	I
Regular site inspections and maintaining a record of environmental performance and reporting performance and monitoring environmental performance.	R	A	I	R	M	M	M	M	I
Following good practice and minimising environmental impacts during constructions	R	A	C	R	M	M	M	M	I
Understanding project environmental obligations and mitigation measures.	R	A	C	R	I	I	I	I	I
Liaison with local authority, other statutory bodies, members of the public, press and the media.	R	A	C	R	C	C	C	C	I
Supporting all site staff with environmental management including reviewing and commenting on method statements and risk assessments.	R	A	C	R	C	C	C	C	I
Ensuring that the environmental policy of the Applicant is delivered.	R	A	I	R	M	M	M	M	I

Process Task	Role								
	Project Manager	Site Manager	Health and Safety Manager	Environmental Manager	Environmental Advisor	ECoW	Flood Warden	Community Liaison Officer	All Staff / Contractors
Providing information on waste management/reduction procedures to relevant staff.	R	A	R	R	M	I	I	I	I

R – Responsible: The individual(s) who perform an activity responsible for action/implementation – although usually only one, R's can be shared.
A – Accountable: The individual who is ultimately accountable including yes/no decision and power of veto – only one (A) can be assigned.
C – Consulted: The individual (s) to be consulted prior to a final decision being made or action taken – two-way communication.
I – Informed: The individual(s) who need to be informed after a decision is made or action is taken – one-way communication.
M – Monitor: Monitor the delivery of the Proposed Development on behalf of third parties and report on compliance.

4 Construction environmental management and mitigation

4.1 Working hours

4.1.1 The core hours of working on any part of the Proposed Development during the construction period will be:

- 07:00 hours to 19:00 hours Mondays to Fridays; and
- 07:00 hours to 12:00 hours on Saturdays.

4.1.2 The following controls will also apply to the works:

- No works, including site deliveries and collections, will take place on Sundays or Public Holidays unless necessary and agreed with East Riding of Yorkshire Council;
- Working days will be one 12-hour shift, with employees travelling to and from the Site an hour on either side of these times (i.e. between 06:00 and 07:00, and 19:00 and 20:00) (exceptions may be required for abnormal loads and emergency purposes); and
- Where onsite works are to be conducted outside the core working hours, they will comply with the restrictions pursuant to the consenting process.

4.2 Site establishment

4.2.1 Temporary compounds will be established before commencement of the main construction works in each Land Area for the storage of materials, plant and equipment. There are expected to be up to 17 temporary construction compounds, which would be located across each Land Area (B to F). This would mean that construction activities and the use of the compound(s) in each Land Area is kept to a shorter period of time compared with all construction activities being based from a single, main compound.

4.2.2 Of the 17 construction compounds, seven are anticipated to be main compounds and the remaining ten satellite compounds. Main compounds would be located near to entrance points and workers would be bused from these locations to the satellite compounds that are closer to the work sites. It is expected that there would be one main compound within each Land Area, except for Land Areas B and D, which would each contain two main compounds.

4.2.3 The indicative locations of the main compounds are summarised within **Table 4-1** and indicative locations of the main and satellite compounds are shown on the **Works Plans [EN010157/APP/2.2]**.

Table 4-1: Location of main compounds

Field number	Location	Construction activities from compound
B6	East of A165 White Cross Road	Works in Land Area B5 and B6.
B8	West of Carr Lane (Long Riston)	Works in Land Area B2, B3, B4 and B8.
C4	West of Carr Lane (Arnold)	Works in Land Area C1-C9.
D7	East of Meaux Lane	Works in Land Area B1, B7, D1, D2, D3, D4, D5, D6 and D7.
D11	West of Meaux Lane in Land Area D	Works in Land Area D8-D18.
E11	West of Meaux Lane in Land Area E	Works in Land Area E and cable grid connection to Creyke Beck Substation.
F11	East of Meaux Road	Works in Land Area F.

4.2.4 The main compounds are expected to have a footprint of up to 6,000m^2. The satellite compounds are expected to have a footprint of up to 3,000m^2.

4.2.5 All compounds would include hardstanding areas, construction worker welfare facilities, a site office, car parking, wheel wash area, plant and machinery storage, HGV/delivery turning area and waste storage areas. The set up, layout and use of compounds will be confirmed by the Principal Contractor with further details described in the Construction Environmental Management Plan(s).

4.2.6 Self-contained independent welfare units will be used which are not connected to the mains and which store foul/wastewater for collection/emptying by specialist licenced contractors.

4.3 Site security

4.3.1 Site security during construction will be managed by the Principal Contractor. The site security fencing will remain in place throughout the duration of the construction period. CCTV will be in operation at all main and satellite compounds. Any storage of materials will be kept secure to prevent theft or vandalism. A safe storage system for accessing the materials storage areas would be implemented by the Principal Contractor.

4.3.2 Further on-site security and fencing to be installed during the construction phase will be confirmed by the Principal Contractor and included in the Construction Environmental Management Plan(s).

4.3.3 In instances whereby an offender is identified through the security measures, the police or relevant authorities will be notified. A robust escalation process for when an offender is identified will be included in the Construction Environmental Management Plan.

4.4 Control of light

4.4.1 Construction temporary Site lighting, in the form of mobile lighting towers with a power output of 8 kilo volt-amperes (kVA), will be required in areas where natural lighting is unable to reach (sheltered/confined areas) and during core working hours within winter months. Artificial lighting would be provided to maintain sufficient security and health and safety for the Site, whilst adopting the mitigation principles to avoid excessive glare and minimise spill of light to nearby receptors (including ecology and residents) outside of the Order Limits as far as reasonably practicable.

4.4.2 All construction lighting will be deployed in accordance with the following recommendations to prevent or reduce the impact on human and ecological receptors:

- The use of lighting will be minimised to that required for safe site operations;
- Lighting will conform to best practice guidelines with respect to minimising light spill into adjacent habitats and prevent disturbance to bats and other species during construction;
- Lighting will utilise directional fittings to minimise outward light spill and glare (e.g. via use of light hoods/cowls which direct light below the horizontal place, preferably at an angle greater than 20° from horizontal); and
- Lighting will be directed towards the interior of the Site rather than towards the boundaries.

4.5 Control of noise

4.5.1 Noise thresholds have been identified for nearby sensitive receptors during construction, presented in **ES Volume 2, Chapter 12: Noise and Vibration [EN010157/APP/6.2]**. These will be defined in the Construction Environmental Management Plan(s). Thus, where on-site works are required to be conducted

outside of the core working hours, they will comply with any restrictions agreed with the relevant planning authorities, in particular regarding the control of noise and traffic. Compliance with these noise limits will ensure adverse effects are unlikely. Abnormal or emergency construction traffic movements may occur outside of normal working hours. In the event of these occurrences, specific noise mitigation measure will be put in place to reduce potential noise impacts at nearby noise sensitive receptors, if required, as set out in **Section 3** of this Outline CEMP.

4.6 Construction traffic management and access routes

4.6.1 During construction, the Principal Contractor will ensure that the impacts from construction traffic on the local community (including local residents and businesses and users of the surrounding transport network) are minimised, where reasonably practicable by implementing the measures set out in **ES Volume 2, Chapter 14: Transport and Access [EN010157/APP/6.2]** and the **Outline CTMP [EN010157/APP/7.7]**.

4.6.2 The **Outline CTMP [EN010157/APP/7.7]** outlines measures for construction logistics and construction worker travel; alongside controls to guide the delivery of material, plant equipment and staff during the construction phase. A Construction Traffic Management Plan will be produced by the Principal Contractor and agreed with the relevant highways authorities prior to the commencement of construction activities.

4.6.3 An **Outline Travel Plan** has been prepared and forms **Appendix A** of the **Outline CTMP [EN010157/APP/7.7]**. The Outline Travel Plan sets out strategies to encourage the use of sustainable transport for the construction workforce.

4.6.4 In the interests of highway safety, wheel cleaning facilities will be used by vehicles prior to exiting the Site onto the public highway if there is mud or debris from the construction site on the vehicles.

4.7 Parking provisions

4.7.1 As detailed in the **Outline CTMP [EN010157/APP/7.7]**, car parking will be located at or adjacent to each of the main construction compounds. Adequate parking spaces will be provided for the maximum number of personnel at each main compound with three workers per vehicle.

4.7.2 Parking will not be available at satellite compounds. Staff will park at the relevant main compound and would be transported to the satellite compounds via shuttle bus.

4.7.3 Further details of parking provision will be confirmed by the Principal Contactor in the Construction Traffic Management Plan and agreed with East Riding of Yorkshire Council prior to commencement.

4.8 Construction waste management

4.8.1 Prior to construction works commencing, a Site Waste Management Plan will be prepared by the Principal Contractor. The Site Waste Management Plan will be substantially in accordance with the **Outline SWMP [EN010157/APP/7.10]** and finalised with specific measures to be implemented prior to commencement in accordance with Schedule 2 of the **Draft DCO [EN010157/APP/3.1]**.

4.8.2 In accordance with Schedule 2 of the **Draft DCO [EN010157/APP/3.1]**, no part of the Proposed Development is to be commenced until a Site Waste Management Plan has been submitted to and approved by the local planning authority (East Riding of Yorkshire Council). The Site Waste Management Plan must be in substantial accordance with the **Outline SWMP [EN010157/APP/7.10]**.

Foot and mouth burial sites

4.8.3 Should foot and mouth burials be discovered on-site, the Principal Contractor will notify the Environment Agency immediately. As foot and mouth landfills are classed as landfill, any relevant waste permits obtained will be reviewed by the Principal Contractor in consultation with the Environment Agency to ensure they sufficiently cover the management of burial sites. Further details regarding the management of any potential foot and mouth burials will be included the Construction Environmental Management Plan.

4.9 Horizontal directional drilling (HDD) breakout

4.9.1 HDD will generally be utilised during construction under highways and some watercourses. General HDD practices are outlined below:

- Reflect known ground conditions to select a specific route and depth through the most homogeneous geological conditions possible;
- Casing of weaker un-cohesive layers to reduce bentonite breakout;
- Use as low a concentration of bentonite as reasonably practicable;
- Operatives to monitor the drilling for evidence of breakout and cease drilling and seal fissures or voids if applicable, as required;
- Monitoring of drilling fluid returns and volumes to help identify losses;

- Retain a stock of sandbags and pumps on site to contain breakout and dispose accordingly;
- Bentonite water slurry will be stored in the launch pits and transported to a registered disposal site(s); and,
- HDD wastewater (including bentonite) will be incarcerated within the launch pit and transported to a specialised local facility for disposal.

4.9.2 Additional outline measures are also included in **Table 5-1**. Further details regarding HDD breakout including defined working areas will be included in the Construction Environmental Management Plan(s), as secured by Requirement 4 of the **Draft DCO [EN010157/APP/3.1]**, and prepared in consultation with the Environment Agency and Natural England in relation to measures associated with bentonite breakout only.

4.10 Open-cut trenching

4.10.1 Measures for the management of soils during the open-cut trenching proposed for the construction phase are outlined in the **Outline LEMP [EN010157/APP/7.5]** and **Outline SMP [EN010157/APP/7.8]**.

4.11 Management of materials

4.11.1 It is expected that the Proposed Development would achieve a cut/fill balance. Any excess material would be used for the proposed landscape and habitats planting across the Site.

4.11.2 Should any contaminated material be discovered, this will not be used on-site and will be dealt with in line with the process detailed in the Site Waste Management Plan.

4.11.3 All staff will remain vigilant of ground conditions at all times and any suspect areas of potential contamination will report to the Site Manager. Should any potentially contaminated ground, including isolated 'hotspots' of contamination and/or potential deposits of asbestos containing materials be encountered, the Principal Contractor will be required to investigate the areas and assess the need for containment or disposal of the material. Advice should be sought from an environmental specialist should materials suspected of being contaminated be found. The Principal Contractor will also be required to assess whether any additional health and safety measures are required. Further detail on this will be provided in the Site Waste Management Plan, secured by the **Outline SWMP [EN010157/APP/7.10]**.

4.12 Environmental incidents and emergencies

4.12.1 An Emergency Response Plan will be developed by the Principal Contractor in consultation with the relevant local authority emergency planning officer, emergency services including the local fire service, as well as the Environmental Agency in relation to responding to flood warnings and events.

4.12.2 The Construction Environmental Management Plan(s) will detail the procedures for responding to incidents and emergencies on site, and any reporting.

4.13 Protection of below ground utilities

4.13.1 Engagement with utilities companies will be undertaken prior to commencement of construction activities to agree safe methods of working around existing utilities.

4.13.2 Offsets around identified utilities will be implemented to avoid impacts, including 20m buffers above major gas pipelines where no project infrastructure is placed.

4.13.3 Adequate protection for statutory undertakers' assets is included within the protective provisions in the **Draft DCO [EN010157/APP/3.1]**.

4.14 Housekeeping and site maintenance

4.14.1 Good housekeeping is an important part of good environmental practice and helps to maintain a more efficient and safer site. The Site should be tidy, secure, and have clear access routes that are well signposted. The appearance of a tidy, well-managed Site can reduce the likelihood of theft, vandalism, complaints and/or specific hazards that could affect the safe operation of the other businesses in the area, such as bird hazards and wind-blown litter.

4.14.2 As outlined in the fifth edition of CIRIA's 'Environmental good practice on site guide' (C811) **[Ref. 1-1]**, when considering good housekeeping, the Principal Contractor will implement the following recommendations:

- Adequately plan the Site with designated areas of materials and waste storage;
- Segregate and label different types of waste as it is produced and arrange frequent removal;
- Keep the Site tidy and clean;
- Ensure that no wind-blown litter or debris leaves the site, use covered skips to prevent wind-blown litter;

- Keep hoarding tidy - repair and repaint when necessary, removing any fly posting or graffiti;
- Frequently brush-clean wheel washing facilities and keep haul routes clean from site derived materials;
- Keep roads free from mud by using a road sweeper; and
- Ensure the Site is secure.

4.15 Invasive non-native species

4.15.1 An Invasive Non-Native Species Management Plan will be prepared as part of the Construction Environmental Management Plan to prevent importation of species on construction plant and control any invasive non-native species found on-site that are listed under the Wildlife and Countryside Act 1981 (as amended). This will contain detailed biosecurity measures ensure the spread of non-native species is controlled during the construction phase.

4.16 Best practice measures

4.16.1 The Considerate Constructors Scheme will be adopted by the Principal Contractor to assist in reducing pollution and nuisance from the Proposed Development, by employing good practice measures which go beyond statutory compliance.

5 Construction environmental management and mitigation procedures

5.1 Topic-specific mitigation

5.1.1 A summary of the mitigation and management measures to be included as minimum in the Construction Environmental Management Plan(s), using information presented in **ES Volume 2 [EN010157/APP/6.2]**, is provided in **Table 5-1**. It also identifies where monitoring is proposed to assess the effectiveness of the mitigation measures.

Table 5-1: Construction phase environmental management and monitoring measures

Measure	Monitoring Requirements	Responsibility
General		
All internal access tracks and cable routes would use existing tracks, crossings and/or gaps in the hedgerows where reasonably practicable.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
All existing hedgerows, trees and woodland would be retained and proposed protection measures detailed in the Construction Environmental Management Plan will be implemented during construction (except where removal is indicated on the vegetation removal plans shown on the **Tree Preservation Order and Hedgerow Plans [EN010157/APP/2.8]**).	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Pre-construction surveys will be used to microsite and determine the final location of the HDD pits, open trenching areas, compound and access routes, thus aiming to avoid the most plant-rich areas. The HDD pits would be positioned a minimum of 50m from main rivers, such as River Hull.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
HDD will be a minimum depth of 7m below the bed of the River Hull.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The grid connection cable underneath the River Hull would use an insulating layer made of cross-linked polyethylene, or similar.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Utilise an automatic clean agent fire suppression system rather than a water-based system.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
HDD under the River Hull and continue the HDD until after Beverley and Barmston drain, thereby HDD-ing under the large sedge bed that lies between the two watercourses, subject to suitable ground conditions.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Air quality		
Where possible, the Proposed Development will avoid development on areas of important or priority habitat	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Standard of good practice for air quality, as set out in the Institute of Air Quality Management 'Guidance on the Assessment of Dust from Demolition and Construction V2.2' **[Ref 3],** will be followed during construction phase to minimise dust from Site activities, plant and vehicles.	Undertake regular on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to East Riding of Yorkshire Council when asked. Monitoring will, where possible, include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of the Order Limits in agreement with the relevant homeowners/landowners.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Develop and implement a stakeholder communications plan that includes community engagement before work commences on Site.	Monitoring for the construction phase is proposed to commence at least three months before work commences on Site. Dust flux, or real-time PM_{10} continuous monitoring locations would be agreed with East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Display the name and contact details of people accountable for air quality and dust issues with respect to the Proposed Development. This may be the environment manager/engineer or the site manager.	Monitoring for the construction phase is proposed to commence at least three months before work commences on Site. Dust flux, or real-time PM_{10} continuous monitoring locations would be agreed with East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
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.	Monitoring for the construction phase is proposed to commence at least three months before work commences on Site. Dust flux, or real-time PM_{10} continuous monitoring locations would be agreed with East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Display the head or regional office contact information.	Monitoring for the construction phase is proposed to commence at least three months before work commences on Site. Dust flux, or real-time PM_{10} continuous monitoring locations would be agreed with East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Make the complaints log available to East Riding of Yorkshire Council when asked.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Plan site layout so that machinery and dust causing activities are located away from sensitive receptors, as far as is reasonably necessary.	Undertake regular on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to East Riding of Yorkshire Council when asked. Monitoring will, where possible, include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of the Order Limits in agreement with the relevant homeowners/landowners.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Erect solid screens or barriers around dusty activities or the Order Limits.	Monitoring for the construction phase is proposed to commence at least three months before work commences on Site. Dust flux, or real-time PM_{10} continuous monitoring locations would be agreed with East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Record any exceptional incidents that cause dust and/or air emissions, either on- or off-site and the action taken to resolve the situation in the logbook.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Fully enclose site or specific operations where there is a high potential for dust production and the Site is active for an extensive period.	Monitoring for the construction phase is proposed to commence at least three months before work commences on Site. Dust flux, or real-time PM_{10} continuous monitoring locations would be agreed with East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Avoid runoff of water or mud from the Site.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Undertake regular on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to East Riding of Yorkshire Council when asked.	Monitoring for the construction phase is proposed to commence at least three months before work commences on Site. Dust flux, or real-time PM_{10} continuous monitoring locations would be agreed with East Riding of Yorkshire Council. Monitoring will, where reasonably practicable, include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of the Order Limits in agreement with the relevant homeowners/landowners	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)). Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Keep site fencing, barriers and scaffolding clean.	Undertake regular on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to East Riding of Yorkshire Council when asked. Monitoring will, where possible, include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of the Order Limits in agreement with the relevant homeowners/landowners.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Remove materials that have a potential to produce dust from site as soon as reasonably practicable, unless being re-used on site. If they are being re-used on-site cover as described below.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Cover, seed or fence stockpiles to prevent wind whipping.	Increase the frequency of Site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Ensure all vehicles switch off engines when stationary - no idling vehicles.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Impose and signpost a maximum speed limit of 10 miles per hour on internal access tracks and work areas.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Produce a Construction Traffic Management Plan to manage the sustainable delivery of goods and materials.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Implement a Travel Plan that supports and encourages sustainable travel.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Ensure an adequate water supply on the Site for effective dust/particulate matter suppression/mitigation, using non-potable water where reasonably practicable and appropriate.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Use enclosed chutes and conveyors and covered skips.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
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.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Avoid bonfires or burning of waste material.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where reasonably practicable and necessary, to provide a screen against dust).	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Ensure effective water suppression is used during demolition operations.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Avoid explosive blasting, using appropriate manual or mechanical alternatives.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Bag and remove any biological debris or damp down such material before demolition.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Only remove the cover in stages during work and not all at once.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Avoid scabbling (roughening of concrete surfaces) if reasonably practicable and necessary.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
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.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the Site.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Avoid any dry sweeping of large areas.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Ensure vehicles entering and leaving Site are covered to prevent escape of materials during transport.	Undertake regular on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to East Riding of Yorkshire Council when asked. Monitoring will, where possible, include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of the Order Limits in agreement with the relevant homeowners/landowners.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Inspect on-Site haul routes for integrity and instigate necessary repairs to the surface.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Record all inspections of haul routes and any subsequent action in a site logbook.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Implement a wheel washing system.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the Site exit.	Carry out regular site inspections to monitor compliance with the Construction Environmental Management Plan, record inspection results, and make an inspection log available to East Riding of Yorkshire Council when asked.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Access gates to be located at least 10m from sensitive receptors.	Undertake regular on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to East Riding of Yorkshire Council when asked. Monitoring will, where possible, include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of the Order Limits in agreement with the relevant homeowners/landowners.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Any emissions from non-road mobile machinery can be reduced by ensuring that any plant used on-site comply with the nitrogen oxides, particulate matter and carbon monoxide emissions standards specified in the Regulation (EU) 2016/1628 of the European Parliament and of the Council (as amended) as a minimum, where they have net power of between 37kW and 560kW.	Monitoring for the construction phase is proposed to commence at least three months before work commences on Site. Dust flux, or real-time PM_{10} continuous monitoring locations would be agreed with East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Biodiversity		
Pre-construction surveys will be undertaken to validate and, where necessary, update the baseline survey results. Pre-construction surveys will be undertaken for the following: • National vegetation classification for Figham Pastures LWS • Surveys to identify any biodiversity constraints where vegetation needs to be removed for Highway visibility splays. • Badgers; • Bats; • Water vole and otter; and • Great crested newts • Barn Owl, peregrine falcon and other appropriate Schedule 1 (of the Wildlife and Countryside Act 1981 (as amended)) bird species	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Pre-construction surveys will entail a Habitat Suitability Index survey of all ponds within 250m of the grid connection cable route and the pond newly identified in 2024 within Field C4 in Land Area C and a repeat eDNA survey of all previously surveyed ponds.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Should the presence of great crested newt be confirmed, the Proposed Development is likely to make use of either the East Riding of Yorkshire District Level Licensing Scheme for great crested newt or a low impact class licence from Natural England.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Should any trees identified as being suitable for roosting bats require removal (considered unlikely) or if there is potential of disturbance to roosting bats, then tree climbing or emergence surveys would be carried out prior to the relevant construction works commencing to determine if bats are present. In the unlikely event that roosting bats are identified, then works would cease, consultation with Natural England would occur and appropriate licences and mitigation would be agreed.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
In addition to any licencing requirements, a variety of bat boxes would be installed in suitable locations on trees within hedges, individual trees or woodland, to improve roosting opportunities, as detailed within **Outline LEMP [EN010157/APP/7.5]**	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where land access permits, pre-construction water vole surveys would be undertaken 100m downstream and upstream from proposed culverts and watercourse crossing points, in accordance with the Water Vole Mitigation Handbook (Ref 5), which relate to watercourses assessed as 'suitable but poor to optimal suitability' within **ES Volume 4, Appendix 7.7: Water Vole and Otter Habitat Suitability Report (Figure 2) [EN010157/APP/6.4]**.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where land access permits, pre-construction otter surveys of suitable habitat within 200m of the proposed works would be undertaken.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
In the event water vole burrows or an otter holt or resting place is identified, appropriate mitigation would be implemented prior to the relevant construction works commencing. Consultation with Natural England and appropriate mitigation licences would be obtained, if required. This would be in addition to a riparian mammal Species Protection Plan for the Proposed Development.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
All work within watercourses assessed as suitable for fish will follow measures detailed within a fish rescue plan. This will include measures to safely relocate fish from a working area using techniques such as electric fishing by qualified ecologists under EA consent. Fish removed from a working area will be relocated downstream from the working area. The time spent working within a watercourse will be a kept to a minimum and the working area will be de-watered by appropriate over pumping or pipeline diversion. All pump inlets will be fitted within an appropriate mesh with a small enough gauge to prevent harm to fish.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where possible intrusive groundworks, including hard piling or major excavations, will avoid impact to land within 30m of an active badger sett. If avoidance is not possible, appropriate mitigation would be undertaken in consultation with Natural England and, if required, setts permanently or temporarily closed under licence. Should pre-construction surveys and micro-siting indicate likely disturbance to a sett then the Applicant would apply for the appropriate licence either to live dig under ecological supervision or to temporarily close the sett. Pre-construction surveys would also determine the location, number and specification of badger gates within the proposed Site fencing.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
A suitably qualified ecologist would be appointed during construction to advise on protecting important biodiversity features and provide advice on how to achieve compliance with environmental legislation. Relevant site staff would receive toolbox talks on the ecological risks present, legal requirements and working arrangements necessary to comply with legislation. Toolbox talks would be repeated as necessary over the duration of the relevant works.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Species Protection Plans as appropriate will be produced by the Principal Contractor under the guidance of a suitability qualified ecologist, if required, based on pre-construction surveys. Each Species Protection Plan would be a live document subject to review and updating and would assist site personnel in the protection of species during construction, under the guidance of the suitably qualified ecologist. In addition to protected species, a separate notable mammals Species Protection Plan will be produced to include reasonable avoidance measures during vegetation clearance and other construction activities for brown hare and hedgehog in order to mitigate effects.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
In the event protected species are found to be a constraint during the pre-construction surveys and if a protected species licence is deemed by the ecologist to be required, then applications would be submitted to Natural England sufficiently in advance of the relevant works commencing to meet with the optimum time for mitigation and to minimise any changes to the construction programme.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
To reduce potential for invasive species to be introduced, for example by construction traffic, biosecurity procedures will be set out and secured in the Construction Environmental Management Plan to ensure that no invasive species are brought onto the Site. In the event that any future infestations of invasive non-native species are identified prior to and or during construction, exclusion zones would be established around them and the suitably qualified ecologist contacted for advice as required.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
To avoid the potential for disturbance of wintering birds within the mitigation areas, completion of the activities most likely to disturb birds (e.g. piling, installing tracks, laying cables etc.) will be avoided during winter (October to March) within fields adjacent to the mitigation areas (Fields E4, E5 and E15, E17 and D17). Only activities less likely to disturb birds (e.g. commissioning works including panel installation) would take place in these fields during winter, if necessary. Should this not be possible, acoustic barriers would be installed for the construction period to provide a noise and visual barrier, in addition to any hedgerow screening already in place.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Adherence to the guidelines set out in The Code of Practice for Noise and Vibration Control on Construction and Open Sites, 2009 and subsequent updates.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The use of push-press piling methods.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Selection of quietest working equipment available.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Visual and acoustic barriers (typically 3m high) will be installed as required around all HDD, launch and reception pits, substation work sites, compounds, and noisy equipment.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Visual and acoustic barriers (typically 3m high) will be installed between bird mitigation areas and the working areas.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Provision of lined and sealed acoustic covers for noisy equipment, such as generators and static pumps.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Directing noise from machinery, including exhausts or engines, away from sensitive locations.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Ensuring that regularly maintained and appropriately silenced equipment is used.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
All plant, equipment and noise control measures applied to plant and equipment to be maintained in good and efficient working order and operated such that noise emissions are minimised as far as reasonably practicable.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Box culverts and single span bailey bridges will incorporate measures to allow species to continue to use the watercourses. Box culverts will include measures including ledges and gravel base to encourage use by riparian mammals and fish. Where it is possible, mammal ledges will be a minimum of 500mm wide, at least 150mm above the highest water level and allow 600mm head room. Ramps must be provided to allow an otter access to the ledge.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
New culverts excluding those used within watercourses which infrequently contain water will be designed to be as short as possible. Culvert diameter should be a minimum of 600mm when under 20m in length and a minimum of 900mm when above 20m in length.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Riparian vegetation will be included at the culvert inlet and outlet to provide transitional light levels. New culverts excluding those used within watercourses which infrequently contain water will have inlets depressed at least 150mm below the watercourse bed, baffles built into the culvert base to limit sediment loss during surcharging and improve the design for fish passage. Pools will be incorporated at culvert outlets to limit scour, dissipate energy and maintain channel stability.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
There will be no night-time working (19:00 to 07:00), unless otherwise agreed with the East Riding of Yorkshire Council, and any artificial lighting will be kept to a minimum and not directed towards hedgerows, tree lines, watercourses, badger setts, ecological mitigation and enhancement areas.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The grid connection cable route will be installed using Horizontal Directional Drilling underneath the majority of Figham Pastures LWS. Vehicle movements will be kept to a minimum within the LWS and where reasonably practicable works within Figham Pastures LWS will not be undertaken between October and March.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
All work, including habitat re-instatement within Figham Pastures LWS, would be completed within six weeks between April and September to avoid the wintering and passage bird season, where reasonably practicable. Turfs removed for the section of open cut trench will be placed back in-situ within one week of removal. This will be done in sections within the six week period. Unless otherwise agreed with East Riding Council, no night-time working (19:00 to 07:00) would be undertaken, to reduce disturbance to species including bats, water voles and otters. The impacted area within Figham Pastures LWS and vehicle movements would be kept to one 30m working width to reduce potential impacts on biodiversity.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Any launch/reception pits required for the Horizontal Directional Drilling underneath the River Hull and Beverley and Barnston Drain will be located within the 30m working width, along with all plant and machinery.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Any works areas through Figham Common will be securely fenced using heras fencing throughout the construction for the safety of the public and livestock.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Prior to the trackway installation within Figham Pastures LWS, the vegetation would be cut to ground level under the supervision of the suitably qualified ecologist with the arisings removed from site. An appropriate trackway would be installed in all areas due to be impacted, apart from soil storage areas, where an appropriate membrane covering the ground surface would be used. The trackway would be placed directly on top of the cut areas rather than over bare soil or excavation.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A tractor mounted scarifying rake would be used within Figham Pastures LWS to aerate compacted areas. Following this, vegetation would be left to regrow from the seedbank.	This would be monitored against the National Vegetation Classification baseline to ensure regrowth is comparable with the baseline and that no injurious weeds such as thistles or docks establish. If injurious weeds become dominant, then remedial management would be put in place.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where soil needs to be excavated within Figham Pastures LWS, the turf would be removed in manageable pieces and stored on pallets that are laid on top of the track matting and covered by plastic sheets. Turfs would be a minimum depth of 300mm to ensure sufficient root mass and topsoil are removed. An appropriate automated watering system, such as a sprinkler or irrigation pipe linked to a water sensor controller and water tank, would be used to ensure the turfs are well maintained and do not dry out. To reduce water use, methods to prevent water run-off would be implemented, such as surrounding the turf area with sandbags to	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
ensure shallow standing water remains on top of the plastic sheeting. A suitably qualified ecologist would monitor the turfs and implement measures if the turfs begin to degrade.		
Coastal floodplain grazing marsh, a priority habitat, is present at Figham Pastures Local Wildlife Site (LWS). The Proposed Development includes HDD drilling under watercourses present as well as open-cut trench cutting to lay the transmission cable within Figham Pastures LWS. The underlying grassland turf will be replaced within 48 hours of the trench being dug. Details on turf translocation will be included in the Landscape and Ecological Management Plan and the Soil Management Plan, to ensure that the impact is minimal, with the trench width kept to a maximum of 1.5m.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
All temporary site cabins would be placed on top of track matting and all generators would be switched off after every shift. Any cabins such as security cabins which are required at night would be placed outside the Figham Pastures LWS boundary. All areas within Figham Pastures LWS would remain unlit and any lighting required for cabins outside the Figham Pastures LWS boundary would be hooded and directed away from Figham Pastures LWS and surrounding hedgerows, tree lines and watercourses.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where generators/site cabins are required overnight, then they would be positioned a minimum of 50m from watercourses.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Any hedgerow sections that require removal would be reinstated in the same location, if for any reason this is not possible the hedgerow will be reinstated elsewhere within the Order Limits, using a mixture of native species appropriate for the local area, as soon as reasonably practicable. If reinstatement is not possible on the original alignment, then planting a mixture of native species would be undertaken within an appropriate location within the Order Limits as directed by a suitably qualified ecologist.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
For internal track highways access, new hedgerows would be planted along new highway boundaries and visibility splays as soon as reasonably practicable after the relevant works.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Any vegetation clearance or ground clearance (if suitable for ground nesting birds) during the nesting season (March to August inclusive) would be checked for the presence of nesting birds by a suitably qualified ecologist immediately prior to and during works. In the unlikely event of ground nesting birds being present, then a suitable buffer distance would be agreed with the site ecologist and no works undertaken within the buffer until the chicks have fledged.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Measures to repel nesting birds would be implemented if required, such as installing wind powered bird spinners within the centre of fields due to be impacted between the months of March and July. Care would be taken when implementing the measures to prevent impact to other species including, bird species listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended), non-ground nesting birds using undisturbed habitat and otters.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
A suitably qualified ecologist would use a bird Species Protection Plan and other appropriate documents to ensure all contractors know where any identified active nest sites are and the appropriate buffer zones that have been put in place.	Monitoring would be undertaken on a regular basis throughout the nesting bird season to ensure all nests are logged and monitored.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The Construction Environmental Management Plan will secure control measures and additional details via subsequent riparian mammal Species Protection Plan, to be implemented during construction to protect watercourses.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where HDD is not practicable, culverts or single span bridges would be used to allow the cables to be attached to the structures. Where works would be within 10m of a watercourse/waterbody, such as during culvert works, measures detailed in and secured by the Construction Environmental Management Plan would mitigate potential impacts on water quality.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Pipe culverts will be used within watercourses which infrequently contain water. New culverts excluding those used within watercourses which infrequently contain water will be designed to be as short as reasonably necessary, with as large a diameter as reasonably necessary (minimum of 900mm) with a minimum of 600mm of headroom. Culverts will provide as much light penetration as possible at the culvert inlets and outlets to encourage use by water vole and otter. Riparian vegetation will be included at the entry to an exit of culverts to provide transitional light levels for species using these and avoid startling the species (including otter) using these structures.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
New culverts excluding those used within watercourses which infrequently contain water will have depressed inverts, natural beds (with 300mm minimum of natural bed material), low-flow channels and sediment baffles to limit sediment loss during surcharging. Pools will be incorporated at culvert outlets to limit scour, dissipate energy and maintain channel stability; these will be of benefit to fish species and, in turn, otter.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Generators and/or welfare cabins to be switched off at night and not positioned within 30m of trees or structures suitable for roosting bats. If generators and/or welfare cabins are required at night, then they would be positioned at least 10m from linear features such as ditches and hedgerows, which could be used as potential bat flight lines. Acoustic barriers would also be installed around generators and/or site cabins as necessary.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Throughout construction, the use of motion detection or manually operated lighting would be used to avoid constant lighting and the inward/downward direction of light would avoid light spill on to adjacent hedgerows, woodlands, field margins and ditches, which are likely to be used by bats.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Security lighting would use infrared triggers where reasonably practicable to help avoid impacts on bats.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
All sections of hedgerow which are to be removed during the bat activity season (April to October) which are 10m long or greater, would have appropriate	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed

Measure	Monitoring Requirements	Responsibility
mitigation to maintain linear connectivity for foraging/commuting bats. This would involve the temporary installation of structures in hedgerow gaps mimicking the hedgerow structure which bats could use for echolocation when commuting e.g. a double row of 'heras' type fencing with camouflage type netting on top or filled with brash. To ensure the temporary structures are moveable, heras gates would be used rather than fencing. This mitigation would be installed immediately after hedge removal (if in the bat activity season of April to October) and left in place until works are completed. If the mitigation needs to be removed for works, such as to allow passage of construction traffic, then the mitigation would be re-instated at the end of each day.		in the Construction Environmental Management Plan(s)).
The temporary structures within the hedgerow gaps would be retained until any new or replacement hedgerow is sufficiently established to be used by bats as an effective flightline.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A suitably qualified ecologist would be responsible for assessing potential disturbance to roosting bats during each work activity.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
An Arboricultural Method Statement will be compiled prior to construction of the Proposed Development commencing, detailing the exact location and nature of protective fencing, tree pruning, signage, timings and methods of works and other protection measures. All site operatives must be made aware of the nature of the protection detailed in the Arboricultural Method Statement and it should remain in place throughout construction. The roles and responsibilities for implementation and monitoring of measures in the Arboricultural Method Statement will be detailed in the Construction Environmental Management Plan.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
For veteran tree T428, which is adjacent to the Order Limits at Carr Lane (a proposed access route) and has a proposed passing place located at the edge of its RPA, tree protection fencing will be installed prior to works commencing. Due to being located on the opposite side of the road to the passing place and proposed works occurring outside its RPA, minimal impacts to roots are likely to occur. Tree protection fencing must be positioned along the road edge nearest the tree to protect the soft verge and the roots within it from compaction. Further details will be provided in the Arboricultural Method Statement, which will be produced prior to construction of the Proposed Development commencing.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Measures will be put in place to mitigate the risk of mammal entrapment from open trench cutting, and this risk will be considered within the Riparian Mammal Species Protection Plan, which will be completed as part of the Landscape and Ecological Management Plan.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s) and Landscape and Ecological Management Plan.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Construction activities within Fields E4, E5, and E15, E17, D17 (adjacent to the Humber Estuary designated sites Mitigation Areas) will be avoided during winter (October to March). This includes but is not limited to vegetation clearance, piling, installing tracks and laying cables.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s) and Landscape and Ecological Management Plan.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Should welfare facilities need to be located within Figham Pastures LWS to comply with construction welfare standards, the design of the welfare facilities would be sympathetic to the surroundings of the LWS in terms of location and size as far as reasonably practicable.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s) and Landscape and Ecological Management Plan.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Climate		
Implement measures to decrease fuel use by maximising energy efficiencies, for example to ensure all vehicles switch off engines when stationary and ensure vehicles are well maintained and conform to current emissions standards.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Promoting the use of sustainable fuels in vehicles, and where reasonably practicable making use of electric vehicles to reduce fuel consumption.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Using locally sourced and/or produced materials where practicable. The use of recycled aggregates, where appropriate, for foundations, subbases, hard-standings and pavement materials.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Actions to meet the waste hierarchy in accordance with the principles of the Government's Resources and waste strategy for England 2018 **[Ref 4]** will be taken, where practicable. This includes promoting the recycling of materials by segregating construction waste.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Ensure that there is coordination with construction staff on measures to minimise the GHG emissions associated with commuting during construction. Such measures include provision of staff minibuses and promoting lower carbon modes of travel such as car sharing options and use of public transport.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Members of the supply chain will provide a carbon reduction plan where necessary, allowing for the optimisation of emissions associated with the supply chain.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Cultural Heritage		
The Archaeological Management Strategy and the archaeological evaluation and mitigation measures contained therein will be adhered to.	To be monitored by the Development Management Archaeologist for East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Long-term spoil storage will avoid areas of archaeological sensitivity as defined following the programme of archaeological fieldwork laid out in the Archaeological Management Strategy.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Traffic management measures to reduce or avoid changes to the setting of heritage assets arising from construction vehicles. To be confirmed with and monitored by the Conservation Team Leader for East Riding of Yorkshire & Hull City Council and Historic England.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The Proposed Development will incorporate information boards on the heritage of the local area, in the vicinity of, and to allow public access to, Scheduled	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed

Measure	Monitoring Requirements	Responsibility
Monuments NHLE 1007843 (Site of Meaux Cistercian Abbey) and NHLE 1015305 (Meaux Duck Decoy, 420m south west of Meaux Decoy Farm).		in the Construction Environmental Management Plan(s)).
Measures to manage any potential impacts to archaeological remains arising from soil compaction during and on completion of the construction phase include: • Avoid undertaking construction works in unsuitable weather conditions; • Use of low ground pressure vehicles wherever possible; • The installation of access tracks early on to avoid unnecessary trafficking on agricultural soils or the use of track matting where needed in the early stages of construction; and • Long-term spoil storage will avoid areas of archaeological sensitivity as defined following the programme of archaeological fieldwork laid out in the AMS [EN010157/APP/7.11]	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Land, soil and groundwater		
An Emergency Response Plan will be developed to provide a framework for responding to environmental incidents and emergencies	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Good housekeeping and site maintenance will be required, including management of materials and waste	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Best practice measures will be adhered to in order to reduce pollution	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Records will be maintained relating to routine inspections, investigations, corrective actions and action schedules	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Cable ploughing will be utilised where ground conditions and other site factors allow. Where this is not possible, other methods such as open cut trenching or Horizontal Directional Drilling will be used.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A Piling Risk Assessment will be prepared, if piling is required as part of the Proposed Development.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Use of non-Best and Most Versatile agricultural land will be prioritised for the areas of environmental mitigation and enhancement where reasonably practicable	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
When soil, aggregates or fill material are imported, it must be ensured that it is from a certified clean source and is suitable for use.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Any potential mitigation measures or remediation works that are determined to be necessary, once an assessment of site investigation results has been completed, will be undertaken.	If any monitoring relating to contaminated land or groundwater is necessary, the requirements for these will be agreed in discussions with East Riding of Yorkshire Council.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The following measures will be taken, as a minimum, with regard to safe and responsible fuel storage: • Fuel levels shall be monitored and recorded regularly (sudden changes may be a sign of leaks). • Fuel tanks, secondary containers and storage compounds shall be inspected regularly for damage, corrosion, leaks, faults and vandalism. Repair defects/faults immediately and retain records. • The secondary containment system must provide storage for at least 110% of the tanks maximum capacity and ensure that any valves, filters, sight gauges, vent pipes or other ancillary equipment are also situated within the secondary containment system and arranged so that any discharges would be contained. • Fully lockable and labelled 'Fuel Safe Static Tank' will be deployed. • Sufficient spill kits will be provided. Spill kit supply to be monitored regularly to ensure adequate stock remains full. • Spill kits will be available within each plant onsite and located close to identified pollution sources or sensitive receptors (fuel storage areas, water course crossings, etc.). • All drains located adjacent or near to refuelling points shall be covered by a drain guard before commencing transfer. All fuel transfers to be supervised. • Drums must be stored in a secure interceptor drum store within the designated refuelling area. • Oil spill and oil impacted water must be collected in a fuel safe container with fuel tags. Fuel spills must be contained using the spill kits provided, spills should be reported to the Principal Contractor's Site Manager immediately. • Records must be maintained of all environmental incidents, mitigation works, clean up method and validation. • A suitable container for hazardous wastes must be provided within the waste compound.	The activities undertaken during the construction phase will be audited against the requirements of the Construction Environmental Management Plan(s) and the Soil Management Plan by the Principal Contractor to ensure adherence.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The following measures will be taken, as a minimum, with regard to safe and responsible refuelling:	The activities undertaken during the construction phase will be audited against the requirements of the Construction Environmental	Principal Contractor (responsibilities will be confirmed

Measure	Monitoring Requirements	Responsibility
• Where possible, refuelling should only be carried out in a designated area, which will be secured/locked out of hours. • The refuelling area shall be located away from drains and watercourses (>10m from a watercourse and >50 meters from a spring, well or borehole). • Areas of permanent waste oil/fuel/chemical storage will be located 50m away from watercourses or drainage paths. Where this is not possible, advice will be sought from the ECoW and a minimum distance will be agreed with the Applicant. • Refuelling will always be supervised by a competent supervisor. • Mobile plant must be refuelled away from surface waters, drains, permeable pavements and open excavations. A fuel drip tray must be used.	Management Plan(s) and the Soil Management Plan by the Principal Contractor to ensure adherence.	in the Construction Environmental Management Plan(s)).
The following measures will be taken, as a minimum, with regard to safe and responsible use and storage of hazardous materials/substances. • Concrete wash-out onsite shall only be permitted when the Principal Contractor has provided a designated, suitably prepared wash-out area with signage identifying the area as suitable for wagon wash-out. • Concrete wash-out may be dried and crushed to be re-used on Site or disposed of in accordance with a Site Waste Management Plan. Surplus dry concrete, cement and grout is to be collected and reused where reasonably practicable e.g., as inert rubble; reuse of dried materials may require environmental permits or exemptions. • Areas of permeable pavements are not to be used for the temporary storage of cement bags. If unavoidable ensure adequate protection measures are in place to prevent the pavement from becoming blocked. • The Principal Contractor is responsible for carrying out a risk assessment of each substance and ensuring that all appropriate storage, protective equipment and if necessary, emergency procedures are put in place on Site. • All hazardous materials shall be labelled, sealed and stored with their COSHH assessment in a bunded and lockable container away from drains and watercourses when not in use. • COSHH datasheet will be read and understood before using any hazardous materials. • Any spent (contaminated) spill kits, absorbent granules, sheets or fibres must be disposed of in accordance with COSHH regulations and Site Waste Management Plan requirements.	The activities undertaken during the construction phase will be audited against the requirements of the Construction Environmental Management Plan(s) and the Soil Management Plan by the Principal Contractor to ensure adherence.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
• Hazardous liquids shall be transferred using a funnel and drip tray and sealed and returned to the container immediately after use. Damaged containers shall be reported to the Site Manager. • All usages of hazardous liquids shall comply with its requirements for safe handling and storage. • Hazardous liquids must be re-sealed after use. Empty containers are to be disposed of to the designated container within the waste compound. • Construction workers are required to wear PPE such as gloves and face masks (where appropriate) to prevent dermal contact and inhalation or ingestion.		
The following measures will be taken, as a minimum, with regard to safe and responsible site set up, groundwork and construction: • Minimise the use of builders skips and inspect lifting and locking points, doors and door locks and general condition weekly as minimum. • Ordered materials shall be adequately managed to avoid spoilage or overordering and surplus materials shall be minimised: provide a suitable and sufficiently sized materials storage compound that is lockable and provides an above ground covered area, protected from wind and rain. Encourage the reuse of cut-offs and arrange for suppliers to take back unused surplus materials and packaging. Storage compounds will be located away from any identified water features. Surplus materials are to be reused onsite where reasonably practicable. All reuse and recycling to be carried out in accordance with the terms of a valid waste exemption or voluntary codes of practice/protocols. • Excavated material surplus shall be minimised so far as practicable; details of all inert material reuse onsite including composition and disposal location must be mapped and records retained. • If necessary temporary bunding and/or settlement ponds will be installed to allow for isolation and onsite treatment of any sediment laden or contaminated water prior to discharge to the drainage system. • Spill kits capable of dealing with hydrocarbon and chemical spills shall be available at all worksites. Each storage location shall be clearly visible to the workforce, for instance by deploying clear signage. • If a construction compound, fuel storage point or COSHH store is provided then additional spill kits will need to be available at each separate location. • The spill kit contents shall include absorbent pads, absorbent booms, absorbent granules and hazardous waste disposal sacks as a minimum. Regular checks of the spill kits shall be completed to ensure they remain adequately stocked to deal with environmental incidents.	The activities undertaken during the construction phase will be audited against the requirements of the Construction Environmental Management Plan(s) and the Soil Management Plan by the Principal Contractor to ensure adherence.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
• Spill drills shall be performed periodically to confirm that the workforce can effectively contain and clear up potentially polluting spillages. All drills will be documented and details kept on record for the duration of the works.		
The following measures will be taken, as a minimum, with regard to spillages and leaks: • All pollution incidents should be managed through the STOP – CONTAIN – NOTIFY concept. • STOP: Immediately stop the discharge to prevent further spread to drainage, waterbody or ground. • CONTAIN: Control the spill to prevent environmental impact, such as by stopping works or using containment material. Personal safety take priority, especially if the spill substance is unknown. • NOTIFY: Promptly inform the appropriate authorities and contacts e.g. Environment Agency and the Applicant. • Oil, Fuel or Chemical Spill to Ground: ➢ Wearing protective clothing, stop release at the source and secure the area. ➢ Create temporary bunds to contain the spill if it is migrating. ➢ Protect nearby drains/ditches using drain seals or spill kit materials. ➢ Absorb the spill with granules or pads from the spill kit. • Notify the Environment Agency with details on time, type/quantity, location, and site contact information. ➢ Inform the Applicant and Local Planning Authority if required under Environmental Damage Regulations. ➢ Keep containment in place until contamination is assessed, and a remediation strategy is developed. • Oil, Fuel or Chemical Spill to Waterbody: ➢ Wearing protective clothing, prevent further release at source and contain the spill. ➢ Deploy booms from the spill kit across the water to stop spread; tie them to banks and add more as needed. ➢ Notify the Environment Agency with discharge details and inform the Applicant. • Oil, Fuel or Chemical Spill to Drainage System: ➢ Wearing protective clothing, stop further release and deploy drain covers to affected gullies.	The activities undertaken during the construction phase will be audited against the requirements of the Construction Environmental Management Plan(s) and the Soil Management Plan by the Principal Contractor to ensure adherence.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
• Supplement containment with booms around the gully to control migration. ➢ Notify the Environment Agency and relevant water company with details on discharge time, type/quantity, specific drain location, and contact information. ➢ Notify the Applicant and Environment Agency as needed.		
The following measures will be taken, as a minimum, with regard to silt discharge: • Cease dewatering or other activity causing silt release. • Use drain seals, hay bales, silt fencing, or bunds to contain and direct silt away from sensitive areas. • If the silt discharge enters drains or surface waters without prior approval, notify the Environment Agency and relevant water company.	The activities undertaken during the construction phase will be audited against the requirements of the Construction Environmental Management Plan(s) and the Soil Management Plan by the Principal Contractor to ensure adherence.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The following measures will be taken, as a minimum, with regard to contamination involving waste materials: • Evacuate the area, if necessary, especially if fumes are present. • Assess whether segregation of waste can mitigate the issue. • Conduct a risk assessment including COSHH considerations. • If segregation is unsafe, classify the entire waste volume as hazardous. • Report the incident to the Applicant. • Dispose of waste according to standard site procedures.	The activities undertaken during the construction phase will be audited against the requirements of the Construction Environmental Management Plan(s) and the Soil Management Plan by the Principal Contractor to ensure adherence.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Should unexpected contamination be discovered, the following measures will be employed: • Halt works immediately upon discovering contamination. • Place removed impacted materials back into the excavation or onto a membrane to prevent further spread. • Report the discovery to the Applicant. • Arrange for fast-turnaround sampling and testing. • Continue work only once contamination is confirmed and a safe working procedure is established. • Do not excavate further without supervision from a geo-environmental engineer.	The activities undertaken during the construction phase will be audited against the requirements of the Construction Environmental Management Plan(s) and the Soil Management Plan by the Principal Contractor to ensure adherence.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A detailed review of how land drainage on site may be impacted by the Proposed Development will be undertaken prior to the commencement of construction. Regular monitoring of the land drains will be undertaken during construction and for a period of 2 years following completion of construction. At the end of the 2 year period the results of the ongoing monitoring will be reviewed and any remedial works will be identified and a plan for their delivery will be implemented.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A risk assessment of damaged land drains will be completed. This assessment will determine if mitigation is required to protect controlled waters.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed

Measure	Monitoring Requirements	Responsibility
		in the Construction Environmental Management Plan(s)).
Unsuspected Contamination (1) In the event that contaminated land, including groundwater, is found at any time when carrying out the Proposed Development, which was not previously identified in the ES, then no further development (unless otherwise approved in writing by the relevant authorities) shall be carried out within the identifiable perimeters of the area in which the suspected contamination is located. It must be reported as soon as reasonably practicable to the Secretary of State, the Environment Agency and East Riding of Yorkshire Council, and the undertaker must complete a risk assessment of the contamination in consultation with the Environment Agency and the East Riding of Yorkshire Council. (2) Where the undertaker determines that remediation of the contaminated land is necessary, a written scheme and programme for the remedial measures to be taken to render the land fit for its intended purpose must be submitted to and approved by the Environment Agency and East Riding of Yorkshire Council. (3) Remediation must be carried out in accordance with the approved development.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Yorkshire Water Services will be included as a consultee on documents such as Hydrogeological Risk Assessments.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Any remediation of contamination that is determined to be necessary prior to construction works commencing for the Proposed Development would be carried out in accordance with the Environment Agency's Land Contamination Risk Management guidance. A remediation strategy would be prepared and the Environment Agency will be consulted on the contents of the strategy.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Landscape and visual		
The Proposed Development has been designed to avoid blocks of woodland and mature trees, the Construction Environmental Management Plan will secure how these important features of the landscape fabric would remain protected during construction.	Records will be maintained relating to routine inspections, investigations, corrective actions and action schedules.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Activities should be undertaken in a sensitive manner with regard to the existing landscape fabric within the Site	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The Construction Environmental Management Plan will detail how existing hedgerows, trees and woodland would be retained and explains the proposed protection measures to be implemented during construction (except where removal is indicated on the vegetation removal plans shown in **Tree Preservation Order and Hedgerow Plans [EN010157/APP/2.8]**).	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Construction compounds should be maintained with a neat and tidy appearance and that any temporary construction lighting is operated in accordance with an agreed scheme.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed

Measure	Monitoring Requirements	Responsibility
		in the Construction Environmental Management Plan(s)).
Construction vehicle movements would be routed in accordance with an agreed routeing strategy and avoid additional landscape and visual effects.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The soil resource within the Site would be managed during construction in accordance with the principles established in the **Outline Soil Management Plan (SMP) [EN010157/APP/7.8]**.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The Proposed Development will be compliant with the Environment Agency's groundwater protection policies.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).
Noise and vibration		
Control and limit noise from reversing alarms, using the following hierarchy: • Design the main and satellite construction compound layouts to limit and avoid the need for the reversing of vehicles and ensure that drivers are familiar with the worksite layout. • Utilise banksmen to avoid the use of reversing alarms. Where their use is necessary, use reversing alarms incorporating one or more of the features listed in hierarchical order below or any other comparable system: • Highly directional sounders. • Use of broadband signals. • Self-adjusting output sounders. • Flashing warning lights; and Set reversing alarms to the minimum output noise level required for health and safety compliance.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Toolbox talks will be carried out by the Principal Contractor to ensure that all members of the workforce are aware of their possible noise impact and of the sensitivities of the vicinity. These will also ensure that Best Practicable Means of control are delivered on the Site.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A programme of community liaison will be carried out, including notification of works and details of the complaints process.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A detailed construction stage vibration assessment should be undertaken once the appointed contractor's working methods and plant items are known. This should account for both existing receptors and any new, future receptors. From this, specific mitigation measures can be identified. It is considered that reasonable mitigation measures can be implemented to limit potential disturbance.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
Temporary noise barriers could comprise a well-constructed site hoarding or a proprietary temporary barrier system that can be rapidly installed and modified on-site to screen specific construction activities. In all instances, the hoarding/barrier should be free from gaps, holes, slits or cracks, with no gaps between the barrier and the ground.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Best Practicable Means as defined by the Control of Pollution Act 1974 will be implemented.	Set up and publicise a contact point with the Principal Contractor and Applicant to log, monitor and address any complaints associated with noise during the construction.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Ensure that each item of equipment complies with the noise limits quoted in The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where reasonably practicable to do so, plant and equipment that generates low levels of noise and vibration shall be adopted.	Provision of monthly reporting of information to local residents to advise of potential noisy works that are due to take place has been included.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
All engine compartments or acoustic enclosures are to be closed whilst engines are running.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where practicable, temporary enclosures will be used to screen all static or semi-static plant from noise sensitive receptor locations.	Following implementation of the Construction Environmental Management Plan and DEMP, targeted monitoring can be undertaken at sensitive receptors during the construction and decommissioning phase. This will be based on the outcomes of further additional detailed construction and decommissioning assessments to be undertaken by the principal contractor, with short term monitoring proposed as a measure to ensure noise levels remain within relevant criteria.	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Use of hand-held equipment to carry out the works where practicable in lieu of mechanical means.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
All plant, equipment and noise control measures applied to plant and equipment to be maintained in good and efficient working order and operated such that noise emissions are minimised as far as reasonably practicable.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Any plant, equipment or items fitted with noise control equipment found to be defective will not be operated until repaired.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Machines in intermittent use to be shut down or throttled down to a minimum during periods between works.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
As far as is reasonably practicable, the location and orientation of semi-static equipment to be chosen to minimise the noise impact on sensitive receptors.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A quiet working ethic will be employed to ensure that all members of the workforce have consideration for the nearby residents. At all times, workers' shouting or raised voices to be kept to a minimum.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Shouting and use of radios when entering to and from Site, and when working on Site, will be controlled.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Operatives will be briefed not to sound car horns to gain access to the Main and Satellite Construction Compounds. To assist, security will arrange for the Site to be unlocked up to one hour prior to the start of the core working hours.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The delivery routes set out in the **Outline CTMP [EN010157/APP/7.7]** will be communicated to and adhered to by all suppliers.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s) and Construction Traffic Management Plan	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where it has been identified there is potential for the construction works to give rise to potential noise impacts at sensitive receptors, setback distances to the proposed works will be included in the Construction Environmental Management Plan, in order to reduce any potential noise impacts	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s) and Construction Traffic Management Plan	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Population – no measures are proposed for this environmental factor in this Outline CEMP		
Transport and access – no measures are proposed for this environmental factor in this Outline CEMP		
Water		
Utilise permeable compacted gravel or similar for access roads, lay down areas or compounds.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
The following measures will be employed to avoid/reduce the release of sediment through soil erosion as a result of the Proposed Development: • Installation of access tracks and lay-down areas early in the construction programme; • Use of low-pressure tyres to limit compaction; • Planting riparian vegetation early in the programme, where reasonably practicable; • Minimise/avoid earthworks around watercourses; • Use of silt traps, fences or hay bales in flow paths or on downstream sides of earthworks to intercept sediment; and	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

Measure	Monitoring Requirements	Responsibility
• Use of tillage, or similar, to break up compacted soils.		
Constructing and using access tracks early in the programme.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Appropriate storage of hydrocarbons and other pollutants to reduce the chance for accidental spillage or reduce the chance for entry to waterbodies.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Appropriate pollution prevention such as storage of chemicals on bunded impermeable surfaces, provision of spill kits for rapid clean up.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Watercourse and defence easements will be identified in the Construction Environmental Management Plan and adhered to by the Principal Contractor and no construction will be undertaken within the relevant easement.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Use of HDD or incorporating cables into crossings where cable routes cross watercourses.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
During the HDD work, no water will be abstracted from the River Hull or its tributaries. Water will be brought to site and stored in water bowsers. Wastewater from the HDD wastewater (including bentonite) will be incarcerated within the launch pit and transported to a specialised local facility for disposal.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Utilise existing watercourse vehicle crossings wherever reasonably practicable.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Upgrade existing crossings to increase cross sectional area and include wildlife movement features.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Low pressure tyres will be used on-site.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Tillage and other measures to break up compacted soils on-site.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Planting riparian vegetation early in the programme, where reasonably practicable.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed

Measure	Monitoring Requirements	Responsibility
		in the Construction Environmental Management Plan(s)).
Improved crossings to have larger dimensions than existing (e.g. replace pipe culvert with box culvert).	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
In accordance with Beverley and North Holderness Internal Drainage Board requirements, a minimum easement of 9m will be applied from the top of Ordinary Watercourse banks. The Environment Agency also requires a minimum easement of 8m from the top of the banks of fluvial Main Rivers bank or the 'landward' toe of flood defences under its jurisdiction. This increases to a 16m easement from tidally influenced Main Rivers (i.e. the River Hull) or tidal flood defences. Infrastructure would not be located within these easements, with the exception of new crossings which would be agreed with Beverley and North Holderness Internal Drainage Board where reasonably practicable. Riparian planting would be located within the easements.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
A drainage strategy is proposed in **ES Volume 4, Appendix 5.6: Flood Risk Assessment [EN010157/APP/6.4]** which follows a Sustainable Drainage Systems (SuDS) led approach that is proportionate to the proposals. Priority 1 of the National Standards for SuDS requires water re-use and will be adhered to.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
Where more than two hybrid packs are located in a field (see field references in **ES Volume 3, Figure 3.1: Indicative Operational Layout Plan [REP5-023]**), filter drains are to be installed. These would discharge to a nearby watercourse, or, where this is not feasible, an existing land drain. The chamber downstream of the packs is to include a penstock to prevent pipe discharge in the event of fire breakout (during construction or operation).	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).
If Type 1 material is used for surfacing of access tracks, the Applicant will submit a drainage strategy for the relevant works to the Beverley and North Holderness Internal Drainage Board.	If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).	Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).

6 Implementation

6.1.1 The Construction Environmental Management Plan(s) will set out all roles, responsibilities and actions required in respect of implementation of the measures described within this Outline CEMP, including:

- An organogram showing team roles, names and responsibilities;
- Training requirements for relevant personnel on environmental topics;
- Information about on-site briefings and Toolbox Talks that will be used to equip relevant staff with the necessary level of knowledge to follow environmental control procedures;
- Measures to advise employees of changing circumstances as work progresses;
- Communication Strategy (internal and external);
- Procedures for dealing with complaints;
- Procedures for monitoring, inspections and reporting of site operations;
- Document control; and
- Environmental emergency procedures.

7 Monitoring and reporting

7.1 Process for monitoring, inspections and audits

7.1.1 Monitoring and reporting will be undertaken for the duration of the construction phase in order to demonstrate the effectiveness of the requirements and measures set out in the Construction Environmental Management Plan(s) and related construction controls and allow for corrective action to be taken where necessary.

7.1.2 As part of the monitoring process the designated Environmental Manager will be present on site throughout construction. The Environmental Manager will observe site activities and report any deviations from the Construction Environmental Management Plan(s), along with the action taken and general conditions at the time. The Applicant will be informed of any deviations from the Construction Environmental Management Plan as soon as possible following identification of such issues, and if required further follow up will be sought. The Environmental Manager would also act as day-to-day contact with relevant local authorities and other regulatory agencies such as the Environment Agency.

7.1.3 During construction, the Environmental Manager will conduct walkover surveys to ensure all requirements of the Construction Environmental Management Plan(s) are being met. Action from these surveys will be documents on an Environmental Action Schedule, discussed with the Site Manager for programming requirements and issued weekly for actioning.

7.1.4 The Environmental Manager will also arrange regular formal inspections and audits, including a review of the measures secured in **Table 5-1**, to ensure the requirements of the Construction Environmental Management Plan(s) are being met. Details of monitoring, inspection and audits to be undertaken will be provided in the Construction Environmental Management Plan(s).

7.1.5 After completion of the works, the Environmental Manager will conduct a final review.

7.2 Records

7.2.1 Records will be managed through the Quality and Safety Management Systems (QMS) and the Environmental Management System (EMS) of the Principal Contractor which will be certified in line with the ISO 14001 standards.

7.2.2 The Environmental Manager will retain records of all monitoring, inspections and audits and records related to environmental issues at the Site. Documents shall be stored in a suitable manner and backups created to safeguard the records. These records will include:

- Results of routine site inspections by Environmental Manager;
- Environmental surveys and investigations;
- Environmental Action Schedule;
- Environmental equipment test records;
- Licenses and approvals; and
- Corrective actions taken in response to incidents, breaches of the approved Construction Environmental Management Plan(s) or complaints received from a third party.

7.2.3 The Construction Environmental Management Plan(s) will be updated if it is necessary to add additional control measures, with a full review as required throughout the construction period. Existing control measures and mitigation will not be amended without prior agreement with the local authorities.

8 References

- **Ref. 1:** CIRIA (2023) Environmental good practice on site guide (fifth edition) (C811).
- **Ref. 2**: Regulation (EU) 2016/1628 of the European Parliament and of the Council. Available online: https://www.legislation.gov.uk/eur/2016/1628/article/4
- **Ref. 3:** Institute of Air Quality Management Guidance of the Assessment of Dust from Demolition and Construction v2.2 (2024)
- **Ref 4:** Defra (2018) Our Waste, Our Resources: A Strategy For England
- **Ref 5:** Dean, M. Strachan, R., Gow, D., and Andrews, R. (2016). The water vole mitigation handbook. 9The Mammal society mitigation guidance series). Eds Fiona Mathews and Paul Chain. The mammal society London.

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