



Pearmtree Hill Solar Farm

Outline Construction Environmental Management Plan

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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]

	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]

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 Environment 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				

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 6,000m². The satellite compounds are expected to have a footprint of up to 3,000m².
- 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

- 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 plane, 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)).
<u>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.</u>	<u>If required, monitoring measures will be identified in the Construction Environmental Management Plan(s).</u>	<u>Principal Contractor (responsibilities will be confirmed in the Construction Environmental Management Plan(s)).</u>
Air quality		
Where possible, the Proposed Development will avoid development on areas of important or priority		

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	

