The Great Grid Upgrade

North Humber to High Marnham

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North Humber to High Marnham

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1. Introduction

1.1 Introduction

Purpose of the appendix

1.1.1 This appendix to **Application Document 6.8 Chapter 8 Ecology** is also relevant to **Application Document 6.9 Chapter 9 Ornithology**. It summarises the assessments conducted in relation to Sites of Special Scientific Interest (SSSIs) within both of these chapters.

1.1.2 The appendix has been prepared in response to feedback from Natural England received during statutory consultation for the Project which took place between 18 February and 15 April 2025. Further details of the feedback are presented in Table 8.5 of **Application Document 6.8 Chapter 8 Ecology**, Table 9.5 of **Application Document 6.9 Chapter 9 Ornithology** and in **Application Document 5.1 Consultation Report**. Natural England recommended including within the Environmental Statement (ES) a summary of all SSSIs that could be impacted by the Project, as a means of helping them to determine that all relevant SSSIs and impacts have been considered and assessed.

Study area

1.1.3 The study area used to identify SSSIs that could be potentially impacted by the Project comprises the Order Limits plus a 5 km buffer, excluding the following two areas within which no impacts upon ecological/ornithological receptors will occur:

- The proposed Functionally Linked Land (FLL) compensation area (Route Section B); and
- The public right of way temporary diversion in the Adling fleet area (Route Section B).

1.1.4 The Project has been sub-divided into six geographical Route Sections; these are shown on **Application Document 6.1.F1 Figure 1.1 Project Location and Route Sections** and comprise:

- Route Section A – between the proposed Birkhill Wood Substation and the River Ouse;
- Route Section B – between the River Ouse and Crowle;
- Route Section C – between Crowle and North Moor (M180);
- Route Section D – between North Moor (M180) and the River Idle;
- Route Section E – between the River Idle and Darlton; and
- Route Section F – between Darlton and the proposed High Marnham Substation.

1.1.5 Each of Table 1.1 to Table 1.35 identifies the closest Route Section to the SSSI being discussed.

Summary of results

1.1.6 There are 35 SSSIs within the study area. Each SSSI is discussed in a separate Table (Table 1.1 to Table 1.35) below, which discusses the potential impacts, the identified mitigation, and the magnitude of impact, residual effect, and significance of effect with this mitigation applied. The tables have been ordered by distance of separation from the Order Limits, with the SSSIs in closest proximity to the Order Limits being listed first.

1.1.7 Details of two SSSIs designated only for their geological interest (Everthorpe Quarry SSSI and Melton Bottoms Chalk Pits SSSI) are also included for completeness, however neither are relevant to the assessments presented in **Application Document 6.8 Chapter 8 Ecology** or **Application Document 6.9 Chapter 9 Ornithology**. Relevant geological sites are discussed in **Application Document 6.12 Chapter 12 Geology and Hydrogeology** in relation to the assessment of impacts for geology and contaminated land.

1.1.8 Of the remaining 33 SSSIs within the study area, all 33 are considered within **Application Document 6.8 Chapter 8 Ecology** as the reasons for their designation are relevant to ecology. However, only the 13 SSSIs with reasons for designation relevant to Ornithology were considered within **Application Document 6.9 Chapter 9 Ornithology**.

1.1.9 Impact pathways were identified between the Project and 14 of the 33 SSSIs assessed within **Application Document 6.8 Chapter 8 Ecology**. With the application of control and management, and embedded mitigation measures as set out in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**, the effects to the remaining 14 SSSIs were all assessed as **not significant**.

1.1.10 Impact pathways were identified between the Project and four of the 13 SSSIs assessed within **Application Document 6.9 Chapter 9 Ornithology**. With the application of control and management, and embedded mitigation measures as set out in section 8.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**, the effects to the remaining three SSSIs were all assessed as **not significant**.

1.1.11 The three of the SSSIs with identified impact pathways for Ornithology (Humber Estuary SSSI, Treswell Wood SSSI, River Idle Washlands SSSI,) also had identified impact pathways for Ecology.

Table 1.1 – Brantingham Dale SSSI (Route Section A)

Discipline	Distance from[1] the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	Partly within the Order Limits	Temporary and permanent direct habitat loss, management and disturbance	Habitat removal will be kept to a minimum inside the SSSI. No trees inside the SSSI boundary will be removed below ground level. Permanent tree management along the edge of part of the SSSI in two locations (approximately 0.24 ha combined, increased to approximately 0.71 hectares (ha) if the Limits of Deviation (LoD) are used in both locations) could potentially create more favourable conditions for grassland and other ground flora to establish or improve, including the calcareous grassland for which the SSSI is primarily designated. Some previous scrub management is known to have been carried out, under consent, inside the SSSI to improve the condition of the	Small	Minor adverse (**not significant**)

[1] Sites have been ordered from closest to furthest from the Order Limits

Discipline	Distance from[1] the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
			calcareous grassland (**Natural England, n.d.**). The SSSI is 15.8 ha in size, therefore 1.5 per cent or maximum of 4.5 would be affected. **Application Document 7.3 Register of Environmental Actions and Commitments** details the control and management measures for the Project, the relevant measures for this SSSI are listed in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**.		
Ecology	Partly within the Order Limits	Degradation of habitat due to dust, other pollution impacts and spread of invasive non-native species (INNS).	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**.	As set out in **Application Document 6.15 Environmental Statement Chapter 15 Air Quality**, the construction dust risk assessment determined that the overall worst-case risk of dust effects would be high for ecological receptors. With the implementation of mitigation measures, the temporary effects of construction dust have been determined to be not significant.	Minor adverse for dust and other pollution impacts and spread of INNS.

Discipline	Distance from[1] the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
				Small for other pollution impacts (e.g. spills) and spread of INNS.	
Ornithology	Partly within the Order Limits	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.2 – Humber Estuary SSSI (Route Section B)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	Partly within the Order Limits	Potential for three trees on the boundary and one tree inside the designated site boundaries to be affected but not removed.	Trees do not form part of any of the qualifying habitats for these designated sites. If required, the trees would be managed above ground level only and suitable measures would be taken to protect the ground and habitat inside the SSSI. **Application Document 7.3 Register of Environmental Actions and Commitments** details the control and management measures for the Project, the relevant measures for this SSSI are listed in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**.	Negligible	Negligible (not significant)
Ecology	Partly within the Order Limits	Degradation of habitat due to dust, other pollution impacts and spread of INNS.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	As set out in **Application Document 6.15 Environmental Statement Chapter 15 Air Quality**, the construction dust risk assessment determined that the overall worst-case risk of dust effects would be high for ecological receptors. With the implementation of mitigation	Minor adverse for dust and other pollution impacts and spread of INNS.

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
				measures, the temporary effects of construction dust have been determined to be not significant. Small for other pollution impacts (e.g. spills) and spread of INNS.	
Ecology	Partly within the Order Limits	Degradation of habitat due to changes to water quality and hydrological connectivity to the Order Limits.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Minor adverse (not significant)
Ecology	Partly within the Order Limits	Potential for temporary disturbance to grey seal, should they travel as far inland along the River Ouse as the Order Limits.	No mitigation required. No works will take place in the channel or along the banks of the River Ouse. The temporary use of a safety boat to monitor the river will be required during installation of the proposed overhead line. This will be a relatively small boat, and the River Ouse is a navigable waterway used by larger vessels. Therefore, any seals using this area are likely to be habituated to passing boats.	Negligible	Negligible (**not significant**)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ornithology: Lapwing, golden plover and curlew	Partly within the Order Limits	Reduction in the wintering population of lapwing, golden plover and curlew through elevation of mortality above baseline levels. Mortality of birds moving between roosts and feeding areas due to collisions of birds in flight with permanent structures (principally the proposed overhead line earth wire).	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Small	Minor adverse (**not significant**)
Ornithology: Lapwing, golden plover and curlew	Partly within the Order Limits	Temporary direct habitat loss for lapwing, golden plover and curlew: Functionally Linked Land (FLL) habitat that is utilised by foraging birds predominantly between Ellerker in Route Section A and Luddington in Route Section B would be cleared to make way for all construction, working and storage areas and construction access tracks for the duration of the construction phase. This would result in reduction of available foraging habitat amounting to a negligible percentage of the suitable	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (**not significant**)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
		foraging habitat within the core foraging range of birds that roost on the Humber Estuary.			
Ornithology: Lapwing, golden plover and curlew	Partly within the Order Limits	Permanent habitat loss for lapwing, golden plover and curlew: Habitat that is occupied by proposed overhead line infrastructure (pylon bases) would be permanently lost as a foraging resource. Habitat 'islanded' between the proposed overhead line and the existing overhead line may also effectively be lost. This will affect the habitats predominantly between Broomfleet Tileworks in Route Section A and Garthorpe in Route Section B, affecting a small percentage of suitable foraging habitat available to birds overwintering within the Humber Estuary designations.	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (**not significant**)
Ornithology: Lapwing, golden plover and curlew	Partly within the Order Limits	Temporary disturbance for lapwing, golden plover and curlew: Temporary disturbance of foraging waders (lapwing, golden plover and curlew)	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (**not significant**)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
		could occur during construction as a result of noise emissions and visual disturbance from working areas. This is expected to be higher for foraging birds on FLL immediately west of Broomfleet Tileworks in Route Section A and near Garthorpe in Route Section B in the months of November to February. Works during these months on and between pylons 4AF65 to 4AF68 north of the River Ouse and, south of the River Ouse, pylons 4AF78 to 4AF79, pylons 4AF83 to 4AF86, pylons 4AF92 to 4AF94, and pylons 4AF97 to 4AF108 are likely to affect the species named above.			
Ornithology: Teal and wigeon	Partly within the Order Limits	Permanent habitat loss for teal and wigeon: Foraging habitat at Broomfleet Tileworks in Route Section A will be 'islanded' between the proposed and existing overhead lines where the proposed overhead line oversails a pool at the	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (**not significant**)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
		southern end of the tileworks (Pool 6 as shown in **Figure A9.2.17 in Application Document 6.9.A2 Environmental Statement Appendix 9.2 Ornithology Baseline Report**. However, this pool supported very small numbers of teal and no wigeon and there is no reason to believe that the proposed overhead line will prevent short distance movements of birds to this pool from other parts of the tileworks. Therefore, this effect will be negligible at Broomfleet Tileworks. This effect is not expected to occur at the River Ouse crossing due to the increased height of the proposed overhead line (minimum 60 m above water level).			
Ornithology: Teal and wigeon	Partly within the Order Limits	Temporary disturbance for teal and wigeon: Temporary disturbance of foraging birds may occur during construction as a result of noise emissions and visual disturbance from working	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (**not significant**)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
		areas at Broomfleet Tileworks in Route Section A Pools 4 and 5 (**Figure A9.2.17 in Application Document A9.2Appendix 9.2 Ornithology Baseline Report**) immediately adjacent to the Order Limits. Other pools are naturally screened from impacts by earth bunds and vegetation. The same effect would occur at the River Ouse crossing where birds were present in significant numbers on the river channel.			
Ornithology: Bittern	Partly within the Order Limits	Reduction in the wintering population through elevation of mortality above baseline levels for bittern: Mortality of birds moving between roosts and feeding areas due to collisions of birds in flight with permanent structures (principally the proposed overhead line earth wire).	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (**not significant)**
Ornithology: Bittern	Partly within the Order Limits	Temporary disturbance for bittern:	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3**	Negligible	Negligible (**not significant**)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
		Temporary disturbance of foraging birds could occur at Broomfleet Tileworks in Route Section A during construction from noise emissions and visual disturbance from working areas.	**Register of Environmental Actions and Commitments**		
Ornithology: Shelduck	Partly within the Order Limits	Temporary disturbance for shelduck: Temporary disturbance of foraging birds may occur during construction as a result of noise emissions and visual disturbance from working areas, these effects being potentially significant (in terms of the presence of concentrations of significant numbers of birds) at the River Ouse in Route Section B. Elsewhere (wider farmland and Broomfleet Tileworks in Route Section A) the potential effects are negated by a combination of natural screening (at the Tileworks) and distance from the proposed works.	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (**not significant**)

Table 1.3 – Chesterfield Canal SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	Partly within the Order Limits	Potential temporary shading of aquatic plants, if present in that location due to the construction of a clear span bridge over the canal. The bridge would be removed upon completion of the construction works.	No mitigation likely to be required. No notable macrophyte species were recorded at the proposed bridge location. A pre-construction survey will be carried out to check for the presence of notable plants.	Negligible	Negligible (not significant)
Ecology	Partly within the Order Limits	Permanent habitat management and temporary disturbance required for overhead line clearance and installation of pilot wires.	The Chesterfield SSSI will be crossed using a clear span bridge or other suitably assessed alternative. The scaffolding either side of the SSSI will be set back from the boundary of the SSSI to retain bankside vegetation. Hedgerows and a tree (T170) within the SSSI will be managed to reduced height for the hedgerow (for 40.5 m as affected managed, and a further 22 m potentially affected should the LoD be used to the east) and reduced canopy on one side for the tree but not removed unless the LoD is used to the east. These habitats are not part of	Negligible	Negligible (not significant)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
			the reason for the designation of the canal. **Application Document 7.3 Register of Environmental Actions and Commitments** details the control and management measures for the Project, the relevant measures for this SSSI are listed in section 8.8 of **Application Document 6.8 Chapter 8 Ecology.**		
Ecology	Partly within the Order Limits	Degradation of habitat due to dust, other pollution impacts and spread of INNS.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	As set out in **Application Document 6.15 Environmental Statement Chapter 15 Air Quality**, the construction dust risk assessment determined that the overall worst-case risk of dust effects would be high for ecological receptors. With the implementation of mitigation measures, the temporary effects of construction dust have been determined to be not significant. Small for other pollution impacts (e.g. spills) and spread of INNS	Minor adverse (not significant)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	Partly within the Order Limits	Degradation of habitat due to changes to water quality and hydrological connectivity to the Order Limits.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Minor adverse (not significant)
Ornithology	Partly within the Order Limits	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.4 – Treswell Wood SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	Partly within the Order Limits	Degradation of habitat due to dust, other pollution impacts and spread of INNS.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	As set out in **Application Document 6.15 Environmental Statement Chapter 15 Air Quality**, the construction dust risk assessment determined that the overall worst-case risk of dust effects would be high for ecological receptors. With the implementation of mitigation measures, the temporary effects of construction dust have been determined to be not significant. Small for other pollution impacts (e.g. spills) and spread of INNS.	Minor adverse (not significant)
Ecology	Partly within the Order Limits	Degradation of habitat due to changes to water quality and hydrological connectivity to the Order Limits.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Minor adverse (not significant)
Ornithology	Partly within the Order Limits	Temporary disturbance of birds within the designated site resulting in their displacement from regularly used habitats could occur as a result of noise,	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (not significant)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
		visual disturbance, obstructions and habitat alteration.			

Table 1.5 – Crowle Borrow Pits SSSI (Route Section C)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	Adjacent to the Order Limits (maintenance access route only)	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**.	Negligible	Minor adverse (not significant)
Ornithology	Adjacent to the Order Limits	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.6 – Hatfield Chase Ditches SSSI (Route Section C)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	0.28 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3**	Negligible	Minor adverse (not significant)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
			Register of Environmental Actions and Commitments.		
Ornithology	0.28 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.7 – Hewson's Field SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	0.39 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	0.39 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.8 – Clarborough Tunnel SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	0.62 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	0.62 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment due to distance from the Order Limits. No impact pathways identified	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Table 1.9 – Mother Drain, Misterton SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	0.65 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3**	Negligible	Minor adverse (not significant)

			Register of Environmental Actions and Commitments.		
Ornithology	0.65 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.10 – Ashton's Meadow SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	0.80 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	0.80 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.11 – Eastoft Meadow SSSI (Route Section B)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	0.98 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	0.98 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.12 – Rush Furlong SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	1.08 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ornithology	1.08 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.13 – Haxey Grange Fen SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	1.37 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments.**	Negligible	Negligible (not significant)
Ornithology	1.37 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.14 – Everthorpe Quarry SSSI (Route Section A)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology and Ornithology	2.16 km	SSSI designated for geological interest only. It is included within this appendix for completeness, but is not considered in either **Application Document 6.8 Chapter 8 Ecology** or **Application Document 6.9 Chapter 9 Ornithology**. It is noted that this geological SSSI lies beyond the study area defined in **Application Document 6.12 Chapter 12 Geology and Hydrogeology** in relation to the assessment of impacts for geology and contaminated land - the Order Limits plus a 250 m buffer.	Not applicable	Not applicable	Not applicable - Geological SSSI

Table 1.15 – Belshaw SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	2.29 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	2.29 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.16 – Castle Hill Wood SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	2.41 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments.**	Negligible	Negligible (not significant)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ornithology	2.41 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology.**	Not applicable	Not applicable	Not applicable

Table 1.17 – River Idle Washlands SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	2.49 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments.**	Negligible	Negligible (not significant)
Ornithology: Whooper swan	2.49 km	Reduction in the wintering population of whooper swan through elevation of mortality above baseline levels: Mortality of birds moving between fields while foraging on Misterton Carrs in Route Section E due to collisions with permanent structures (principally the proposed overhead line earth wire).	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Small	Minor adverse (not significant)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ornithology: Whooper swan	2.49 km	Temporary direct habitat loss: The Order Limits do not coincide with the locations most regularly used by the largest numbers of whooper swan, which are over 500 m west. However, habitat within the Order Limits on Misterton Carrs in Route Section E would be cleared to make way for all construction, working and storage areas and construction access tracks for the duration of the construction phase. Since significant numbers of foraging wild swans have been recorded within 500 m of the Order Limits, this may result in reduction of available foraging habitat amounting to a negligible percentage of the available habitat across the wider Carrs	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Small	Minor adverse (not significant)
Ornithology: Whooper swan	2.49 km	Permanent habitat loss: Habitat on Misterton Carrs in Route Section E occupied by proposed overhead line infrastructure (pylon bases) and beneath and immediately	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Minor adverse (not significant)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
		adjacent to the proposed overhead line, would be permanently lost as a foraging resource. The proposed overhead line infrastructure does not intersect the locations most regularly used by the largest numbers of whooper swan, which are over 500 m west of the Order Limits.			
Ornithology: Whooper swan	2.49 km	Temporary disturbance: Temporary disturbance of foraging swans may occur during construction as a result of noise emissions and visual disturbance from working areas. This may occur for foraging swans within 500 m of the Order Limits, however the greatest numbers and most regular occurrences of this species were beyond 500 m west of the Order Limits.	As described in section 9.8 of **Application Document 6.9 Chapter 9 Ornithology**, and **Application Document 7.3 Register of Environmental Actions and Commitments**	Negligible	Negligible (not significant)

Table 1.18 – Drewton Lane Pits SSSI (Route Section A)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	2.55 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	2.55 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology**	Not applicable	Not applicable	Not applicable

Table 1.19 – Thorne, Crowle, and Goole Moors SSSI (Route Section C)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	2.69 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ornithology	2.69 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment following survey. Foraging nightjar surveys were conducted to monitor use of potentially suitable habitat that overlaps the Order Limits within the potential foraging range of this species, which is a qualifying feature (during the breeding season) of Thorne Crowle and Goole Moors SSSI. Based on survey results potential impact pathways for foraging nightjar in habitats beyond the designated site boundary were ruled out.	Not applicable	Not applicable	Not applicable – survey data showed no impact pathways

Table 1.20 – Misson Line Bank SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	2.80 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	2.80 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment as no impact pathways this SSSI were identified - Order Limits are beyond the foraging range of qualifying features.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Table 1.21 – Misson Training Area SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	2.89 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	2.89 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment as no impact pathways this SSSI were identified - Order Limits are beyond the foraging range of qualifying features.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Table 1.22 – Melton Botton Chalk Pit SSSI (Route Section A)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology and Ornithology	3.02 km	Designated for geological interest only. It is included within this appendix for completeness, but is not considered in either **Application Document 6.8 Chapter 8 Ecology** or **Application Document 6.9 Chapter 9 Ornithology**. It is noted that this geological SSSI lies beyond the study area defined in **Application Document 6.12 Chapter 12 Geology and Hydrogeology** in relation to the assessment of impacts for geology and contaminated land - the Order Limits plus a 250 m buffer.	Not applicable	Not applicable	Not applicable – Geological SSSI

Table 1.23 – Lea Marsh SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.13 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	3.13 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment as no impact pathways this SSSI were identified - Order Limits are beyond the foraging range of qualifying features.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Table 1.24 – Burton Bushes SSSI (Route Section A)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.25 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	3.25 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology.**	Not applicable	Not applicable	Not applicable

Table 1.25 – South Cliffe Common SSSI (Route Section A)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.25 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ornithology	3.25 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment. Potential impact pathways for foraging nightjar in habitats beyond the designated site boundary were ruled out based on general foraging distance and habitats.	Not applicable	Not applicable	Not applicable – survey data showed no impact pathways

Table 1.26 – Spalford Warren SSSI (Route Section F)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.36 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	3.36 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology.**	Not applicable	Not applicable	Not applicable

Table 1.27 – Gamston & Eaton Woods and Roadside Verges SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.37 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	3.37 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment as no impact pathways with this SSSI were identified - Order Limits are beyond the foraging range of qualifying features.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Table 1.28 – Epworth Turbary SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.41 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3**	Negligible	Negligible (not significant)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
			Register of Environmental Actions and Commitments.		
Ornithology	3.41 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment as no impact pathways with this SSSI were identified - Order Limits are beyond the foraging range of qualifying features.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Table 1.29 – Laughton Common SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.65 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments.**	Negligible	Negligible (not significant)
Ornithology	3.65 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology.**	Not applicable	Not applicable	Not applicable

Table 1.30 – Tuetoes Hills SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.79 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	3.79 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology.**	Not applicable	Not applicable	Not applicable

Table 1.31 – Haxey Turbary SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	3.81 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ornithology	3.81 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment as no impact pathways with this SSSI were identified - Order Limits are beyond the foraging range of qualifying features.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Table 1.32 – Wyedale SSSI (Route Section A)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	4.38 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	4.38 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology.**	Not applicable	Not applicable	Not applicable

Table 1.33 – Sutton and Lound Gravel Pits SSSI (Route Section E)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	4.51 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments.**	Negligible	Negligible (not significant)
Ornithology	4.51 km	Considered within the **Application Document 6.9 Chapter 9 Ornithology**, but scoped out of further assessment as no impact pathways with this SSSI were identified: The SSSI is 4.71 km away from the Project and therefore outwith any key foraging ranges of the water bird assemblage for which the site is designated. Flight activity surveys indicated very low levels of flight activity indicative of regular movements to/from the SSSI and therefore negligible potential for effects. South of Gringley Carrs relevant flight activity surveys included only a few hundred records with a low proportion of these at potential collision risk height, this potential corridor of	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
		movement along the River Idle Valley and across Misterton Carrs already includes mitigation measures for whooper swan via installation of bird diverters on the proposed overhead lines.			

Table 1.34 – Scotton and Laughton Forest Ponds SSSI (Route Section D)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	4.94 km	No pathways have been identified with this SSSI.	Not applicable	Not applicable	Not applicable – no impact pathways were identified and the SSSI was scoped out of further assessment
Ornithology	4.94 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology.**	Not applicable	Not applicable	Not applicable

Table 1.35 – Hotham Meadow SSSI (Route Section A)

Discipline	Distance from the Order Limits	Description of impact	Mitigation	Magnitude of impact	Residual effect and significance
Ecology	4.96 km	Potential for degradation of habitat due to changes to water quality.	As described in section 8.8 of **Application Document 6.8 Chapter 8 Ecology**, and **Application Document 7.3 Register of Environmental Actions and Commitments.**	Negligible	Negligible (not significant)
Ornithology	4.96 km	Reasons for designation are not relevant to the Ornithology chapter. Site not considered within **Application Document 6.9 Chapter 9 Ornithology.**	Not applicable	Not applicable	Not applicable

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