HS2

High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Volume 5: Technical appendices

Summary of changes to ecology baseline data that do not generate new or different significant effects (EC-018-000)

HS2

High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Volume 5: Technical appendices

Summary of changes to ecology baseline data that do not generate new or different significant effects (EC-018-000)



High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

High Speed Two (HS2) Limited, Two Snowhill Snow Hill Queensway Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.hs2.org.uk

A report prepared for High Speed Two (HS2) Limited:





High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2019, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/2 **CCL** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



Printed in Great Britain on paper containing at least 75% recycled fibre.

Contents

1	Introduction	1
2	Summary table	3
3	References	18

List of tables

Table 1: Summary of changes to ecology baseline data that do not generate new or different significant effects

1 Introduction

- 1.1.1 This document is an appendix to the ecological assessment which forms part of Volume 5 of the Supplementary Environmental Statement 2 (SES2) and Additional Provision 2 Environmental Statement (AP2 ES).
- 1.1.2 This appendix provides a summary of the new supplementary ecological baseline data that does not lead to new or different likely significant environmental effects from those reported in the High Speed Two (HS2) Phase 2a (West Midlands Crewe) Environmental Statement (ES)¹ published in July 2017 (the main ES) as amended by the Supplementary Environmental Statement (SES1) and Additional Provision Environmental Statement (AP1 ES)² published in March 2018. New baseline data is as a result of the SES changes, assessed as part of the SES2 and AP2 ES.
- 1.1.3 This document should be read in conjunction with the SES2 and AP2 ES Volume 2, Community area reports, Volume 3, Route-wide effects, and the Background Information and Data (BID) document that accompanies the SES2 and AP2 ES (see BID EC-019-000³). Designated site and Phase 1 habitat survey maps of relevance to this report are contained in the SES2 and AP2 Volume 5, Ecology Map Book, Map Series EC-01 and EC-02.
- 1.1.4 This appendix covers the following community areas (CA):
 - CA1: Fradley to Colton;
 - CA2: Colwich to Yarlet;
 - CA3: Stone and Swynnerton;
 - CA4: Whitmore Heath to Madeley; and
 - CA5: South Cheshire.
- 1.1.5 Supplementary environmental information considered within this appendix includes updated Phase 1 habitat survey baseline data, that was not reported in the main ES or SES1 and AP1ES, and new information on designated nature conservation sites from Staffordshire and Cheshire Wildlife Trust. Table 1 presents a summary of changes to the ecology baseline data that do not generate new or different significant effects in each of the community areas.

In order to differentiate between the original scheme and the subsequent changes, the following terms are used:

• 'the original scheme' – the Bill scheme submitted to Parliament in July 2017, which was assessed in the main ES;

https://www.gov.uk/government/collections/hs2-phase-2a-environmental-statement

¹ HS2 Ltd (2017), High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Statement,

² HS2 Ltd (2018), High Speed Two (HS2) Phase 2a (West Midlands- Crewe), Supplementary Environmental Statement and Additional Provision Environmental Statement,

https://www.gov.uk/government/collections/hs2-phase-2a-supplementary-environmental-statement-and-additional-provision-environmentalstatement

³ HS2 Ltd (2019), High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Background Information and Data to accompany Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement, <u>https://www.gov.uk/government/organisations/high-speed-two-limited</u>

- 'the SES1 scheme' the original scheme with the changes described in the SES1 submitted in March 2018;
- 'the AP1 revised scheme' the SES1 scheme as amended by the AP1 submitted in March 2018;
- 'the SES2 scheme' the SES1 scheme with the changes described in the SES2; and
- 'the AP2 revised scheme' the SES2 scheme as amended by the AP2.
- 1.1.6 This document presents a summary of new baseline data associated with the SES2 scheme that does not change the conclusions within the main ES and SES1 and AP1 ES.

2 Summary table

Table 1: Summary of changes to ecology baseline data that do not generate new or different significant effects

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
CA1 Fradley to Colton	John's Gorse LWS	Main ES, Volume 2, CA1 paragraph 8.3.7	The main ES as amended by SES1, reported no loss of habitat from John's Gorse Local Wildlife Site (LWS) and Ancient Woodland Inventory (AWI) site. The site is immediately adjacent to the land required for the original scheme as amended by SES1.	Updated designated site information received from Staffordshire Wildlife Trust.	Since the production of the main ES, the extent of John's Gorse LWS has been reduced from 2.7ha to 2.4ha.	No change. The SES2 scheme will not result in the loss of habitat from the LWS; the site is located adjacent to the land required for the SES2 scheme. The reduction in extent of the LWS will not result in a new or different significant effect.	No change.	No change.
CA1 Fradley to Colton	Pipe Wood LWS	Main ES, Volume 2, CA1 paragraph 8.3.7	The main ES as amended by SES1, reported no loss of habitat from Pipe Wood AWI site. The site is approximately 118m east of the land required for the original	Updated designated site information received from Staffordshire Wildlife Trust.	Since the production of the main ES, Pipe Wood has been designated as a LWS.	No change. The SES2 scheme will not result in the loss of habitat from the LWS; the site is located adjacent to the land required for	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
			scheme as amended by SES1.			the SES2 scheme. The new designation will not result in a new or different significant effect.		
CA1 Fradley to Colton	Scrub	Main ES BID-EC-002-000, paragraph 2.3.12	The main ES as amended by SES1, reported the loss of 2.4ha of scrub within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Scrub has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 4.7ha of scrub. The increased area of scrub loss will not result in a new or different significant effect.	No change.	No change.
CA1 Fradley to Colton	Improved grassland	Main ES BID-EC-002-000, paragraph 2.3.16	The main ES as amended by SES1, reported the loss of 163.8ha of improved grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 178.6ha of improved grassland. The increased area of improved grassland loss will	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
						not result in a new or different significant effect.		
CA1 Fradley to Colton	Species-poor semi- improved grassland	Main ES BID-EC-002-000, paragraph 2.3.16	The main ES as amended by SES1, reported the loss of 8.8ha of species- poor semi- improved grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Species-poor semi- improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 17.8ha of species-poor semi- improved grassland. The increased area of species-poor semi-improved grassland loss will not result in a new or different significant effect.	No change.	No change.
CA1 Fradley to Colton	Amenity grassland	Main ES BID-EC-002-000, paragraph 2.3.16	The main ES as amended by SES1, reported the loss of 21.9ha of amenity grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Amenity grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 5.9ha of amenity grassland.	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
						The decreased area of amenity grassland loss will not result in a new or different significant effect.		
CA1 Fradley to Colton	Arable and cultivated land	Main ES BID-EC-002-000, paragraph 2.3.24	The main ES as amended by SES1, reported the loss of 387.8ha of arable and cultivated land within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Arable cropping has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 38oha of arable and cultivated land. The decreased area of arable and cultivated land loss will not result in a new or different significant effect.	No change.	No change.
CA2 Colwich to Yarlet	Improved grassland	Main ES BID-EC-002-000, paragraph 2.3.47	The main ES as amended by SES1, reported the loss of 164.5ha of improved grassland within the land required for the original scheme as	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 163.6ha of improved grassland. The decreased area of improved grassland loss will	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
			amended by SES1.			not result in a new or different significant effect.		
CA2 Colwich to Yarlet	Species-poor semi- improved grassland	Main ES BID-EC-002-000, paragraph 2.3.47	The main ES as amended by SES1, reported the loss of 31.5ha of species- poor semi- improved grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Species-poor semi- improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 28ha of species-poor semi- improved grassland. The decreased area of species- poor semi- improved grassland loss will not result in a new or different significant effect.	No change.	No change.
CA2 Colwich to Yarlet	Amenity grassland	Main ES BID-EC-002-000, paragraph 2.3.47	The main ES as amended by SES1, reported the loss of 15.9ha of amenity grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Amenity grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 15ha of amenity grassland.	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
						The decreased area of amenity grassland loss will not result in a new or different significant effect.		
CA2 Colwich to Yarlet	Arable and cultivated land	Main ES BID-EC-002-000, paragraph 2.3.55	The main ES as amended by SES1, reported the loss of 190.2ha of arable and cultivated land within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Arable cropping has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 177.2ha of arable and cultivated land. The decreased area of arable and cultivated land loss will not result in a new or different significant effect.	No change.	No change.
CA ₃ Stone and Swynnerton	Moss Rose Barn (Western Field) LWS	Not reported in the main ES	Not reported at main ES.	Updated designated site information received from Staffordshire Wildlife Trust.	Since the production of the main ES, Moss Rose Barn (Western Field) has been designated a LWS.	No change. The SES ₂ scheme will not result in the loss of habitat from the LWS; the site is located adjacent to the land required for the SES ₂ scheme.	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
						The new designation will not result in a new or different significant effect.		
CA3 Stone and Swynnerton	Scrub	Main ES BID-EC-002-000, paragraph 2.3.71	The main ES as amended by SES1, reported the loss of 2.8ha of scrub within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Scrub has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 2.7ha of scrub. The decreased area of scrub loss will not result in a new or different significant effect.	No change.	No change.
CA3 Stone and Swynnerton	Improved grassland	Main ES BID-EC-002-000, paragraph 2.3.79	The main ES as amended by SES1, reported the loss of 153.2ha of improved grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 148.5ha of improved grassland. The decreased area of improved grassland loss will not result in a new or different	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
						significant effect.		
CA3 Stone and Swynnerton	Arable and cultivated land	Main ES BID-EC-002-000, paragraph 2.3.91	The main ES reported the loss of 239.5ha of arable and cultivated land within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Arable cropping has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 229ha of arable and cultivated land. The increased area of arable and cultivated land loss will not result in a new or different significant effect.	No change.	No change.
CA4 Whitmore Heath to Madeley	Hey Sprink LWS	Main ES Volume 2, CA4, paragraph 8.3.8	The main ES as amended by SES1, reported no loss of habitat from Hey Sprink AWI. The site is south-east of the West Coast Main Line (WCML), adjacent to the land required for the original scheme as amended by SES1.	Updated designated site information received from Staffordshire Wildlife Trust.	Since the production of the main ES, Hey Sprink has been designated a LWS.	No change. The SES2 scheme will not result in the loss of habitat from the LWS; the site is located adjacent to the land required for the SES2 scheme.	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
						The new designation will not result in a new or different significant effect.		
CA4 Whitmore Heath to Madeley	Wrinehill Wood (east of) LWS	Main ES Volume 2, CA4 paragraph 8.4.10 as amended by SES1	The main ES as amended by SES1, reported no loss of habitat from Wrinehill Wood (east of) Biodiversity Alert Site (BAS). The site is directly adjacent to the land required for the original scheme as amended by SES1.	Updated designated site information received from Staffordshire Wildlife Trust.	Since the production of the main ES, Wrinehill Wood (east of) (BAS) has been re- designated as a LWS.	No change. The SES2 scheme will not result in the loss of habitat from the LWS; the site is located adjacent to the land required for the SES2 scheme. The change in designation will not result in a new or different significant effect.	No change.	No change.
CA4 Whitmore Heath to Madeley	Wrinehill Wood LWS	Main ES, Volume 2, CA4 paragraph 8.3.6	The main ES, reported no loss of habitat Wrinehill Wood Local Wildlife Site (LWS) and Ancient Woodland Inventory (AWI) site. The site is	Updated designated site information received from Staffordshire Wildlife Trust.	Since the production of the main ES, the extent of Wrinehill Wood LWS has been increased from 26.2ha to 27.8ha.	No change. The SES2 scheme will not result in the loss of habitat from the LWS; the site is located adjacent to the land required for	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
			immediately adjacent to the land required for the original scheme as amended by SES1.			the SES2 scheme. The increase in extent of the LWS will not result in a new or different significant effect.		
CA4 Whitmore Heath to Madeley	Scrub	Main ES BID-EC-002-000, paragraph 2.3.101	The main ES as amended by SES1, reported the loss of o.4ha of scrub within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Scrub has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of o.6ha of scrub. The increased area of scrub loss will not result in a new or different significant effect.	No change.	No change.
CA4 Whitmore Heath to Madeley	Improved grassland	Main ES BID-EC-002-000, paragraph 2.3.106	The main ES as amended by SES1, reported the loss of 166ha of improved grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 179.9ha of improved grassland The increased area of improved grassland loss will not result in a new	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
						or different significant effect.		
CA4 Whitmore Heath to Madeley	Species-poor semi- improved grassland	Main ES BID-EC-002-000, paragraph 2.3.106	The main ES as amended by SES1, reported the loss of 28.1ha of species- poor semi- improved grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Species-poor semi- improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 22.9ha of species-poor semi- improved grassland. The increased area of species-poor semi-improved grassland loss will not result in a new or different significant effect.	No change.	No change.
CA4 Whitmore Heath to Madeley	Amenity grassland	Main ES BID-EC-002-000, paragraph 2.3.106	The main ES as amended by SES1, reported the loss of 1.9ha of amenity grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Amenity grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	The SES2 scheme will result in the loss of 2ha of amenity grassland. The increased area of amenity grassland loss will not result in a new or different	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
						significant effect.		
CA4 Whitmore Heath to Madeley	Arable and cultivated land	Main ES BID-EC-002-000, paragraph 2.3.112	The main ES as amended by SES1, reported the loss of 80.6ha of arable and cultivated land within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Arable cropping has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 70.9ha of arable and cultivated land. The decreased area of arable and cultivated land loss will not result in a new or different significant effect.	No change.	No change.
CA5 South Cheshire	Basford Brook LWS	Main ES Volume 2, CA4, paragraph 8.3.7	The main ES as amended by SES1, reported the loss of o.1ha (o.8%) of riparian habitat within Basford Brook LWS. The site is within the land required for the original scheme as amended by SES1.	Updated designated site information received from Cheshire Wildlife Trust.	Since the production of the main ES, the extent of this LWS has been reduced from 12.7ha to approximately 4.3ha.	No change. The SES2 scheme will result in the loss 0.1ha (2.3%) of the Basford Brook LWS. The reduced extent of the designation will not result in a new or different significant effect.	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
CA5 South Cheshire	Scrub	Main ES BID-EC-002-000, paragraph 2.3.125	The main ES as amended by SES1, reported the loss of 9.2ha of scrub within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Scrub has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 9.8ha of scrub. The increased area of scrub loss will not result in a new or different significant effect.	No change.	No change.
CA5 South Cheshire	Improved grassland	Main ES BID-EC-002-000, paragraph 2.3.131	The main ES as amended by SES 1 reported the loss of 56.7ha of improved grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 92.4ha of improved grassland. The increased area of improved grassland loss will not result in a new or different significant effect.	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
CA5 South Cheshire	Species-poor semi- improved grassland	Main ES BID-EC-002-000, paragraph 2.3.131	The main ES as amended by SES1, reported the loss of 56.7ha of species- poor semi- improved grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Species-poor semi- improved grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 56.9ha of species-poor semi- improved grassland. The increased area of species-poor semi-improved grassland loss will not result in a new or different significant effect.	No change.	No change.
CA5 South Cheshire	Amenity grassland	Main ES BID-EC-002-000, paragraph 2.3.131	The main ES as amended by SES1, reported the loss of 1.9ha of amenity grassland within the land required for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Amenity grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 1.7ha of amenity grassland. The decreased area of amenity grassland loss will not result in a new or different significant effect.	No change.	No change.

CA (number and name)	Receptor	Document and paragraph reference for relevant baseline information within the main ES or BID and SES1 and AP1 ES or BID	Extract of relevant baseline information reported in the main ES as amended by SES1 and AP1 ES	Relevant additional survey undertaken since SES1 and AP1 ES	Summary of relevant supplementary ecological information	Changes to construction impacts/effects reported in the main ES or SES1 and AP1 ES	Changes to operational impacts/effects reported in the main ES or SES1 and AP1 ES	Implications for ecology mitigation/ compensation provision reported in the main ES or SES1 and AP1 ES
CA5 South Cheshire	Arable and cultivated land	Main ES BID-EC-002-000, paragraph 2.3.135	The main ES as amended by SES1, reported the loss of 210ha of arable and cultivated land within the land for the original scheme as amended by SES1.	Further habitat surveys were undertaken since production of the SES1 and AP1 ES.	Arable grassland has been verified in all areas where it was previously assumed to be present from aerial imagery interpretation.	No change. The SES2 scheme will result in the loss of 196.9ha of arable and cultivated land. The decreased area of arable and cultivated land loss will not result in a new or different significant effect.	No change.	No change.

3 References

HS2 Ltd (2019), High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Background Information and Data to accompany Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement. Available online at: https://www.gov.uk/government/organisations/high-speed-two-limited.

HS2 Ltd (2018), High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Supplementary Environmental Statement and Additional Provision Environmental Statement. Available online at: https://www.gov.uk/government/collections/hs2-phase-2a-supplementary-environmentalstatement-and-additional-provision-environmental-statement.

HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Statement*. Available online at: <u>https://www.gov.uk/government/collections/hs2-phase-2a-environmental-statement</u>.

High Speed Two (HS2) Limited Two Snowhill Snow Hill Queensway Birmingham B4 6GA

08081 434 434 HS2Enquiries@hs2.org.uk www.hs2.org.uk