

High Speed Rail (West Midlands - Crewe)

Environmental Statement

Volume 5: Technical appendices

CA5: South Cheshire

Ecology register of local level effects (EC-016-005)



High Speed Rail (West Midlands - Crewe)

Environmental Statement

Volume 5: Technical appendices

CA5: South Cheshire

Ecology register of local level effects (EC-016-005)



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.gov.uk/hs2

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, 2017, 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 **OGL** 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	References	7
List	of tables	
	e 1: Summary of local/parish level adverse effects arising from the construction/operation or Proposed Scheme within CA5	of 3

1 Introduction

- 1.1.1 This document is an Appendix to the ecological assessment. Table 1 provides a summary of anticipated local/parish level adverse effects on ecological receptors arising from the construction and operation of High Speed Rail (West Midlands Crewe) for the South Cheshire community area (CA₅).
- 1.1.2 This document should be read in conjunction with:
 - Volume 2, Community area reports;
 - Volume 3, Route-wide effects assessment;
 - · Volume 4, Off-route effects assessment; and
 - Volume 5, Appendices.
- 1.1.3 See Volume 5, Appendix EC-001-000 and the Ecology Map Book (Map Series EC-01), for ecological designated sites, and Appendices EC-017-001 to EC-017-005 for Habitats Regulations Assessment screening reports.
- In addition, the ecological baseline data used for the ecological assessment is set out in Background Information and Data (BID)¹, (see BID-EC-002-000 to BID-EC- 014) and the BID Ecology Map Books (Map Series EC-02 to EC-12) showing habitats and species recorded along the proposed route. The full list of ecological baseline data reports is as follows:
 - Ecological baseline data phase 1 habitat survey (Background Information and Data: BID-EC-002-000);
 - Ecological baseline data protected and or notable flora (Background Information and Data: BID-EC-003-000);
 - Ecological baseline data national vegetation classification and ancient woodland (Background Information and Data: BID-EC-004-000);
 - Ecological baseline data hedgerows (Background Information and Data: BID-EC-005-000);
 - Ecological baseline data river habitat, river corridor, and ditch surveys (Background Information and Data: BID-EC-006-000);
 - Ecological baseline data amphibian and pond surveys (Background Information and Data: BID-EC-007-000);
 - Ecological baseline data reptiles (Background Information and Data: BID-EC-008-000);
 - Ecological baseline data breeding and wintering birds (Background Information and Data: BID-EC-009-000);

¹ HS2 Ltd (2017), High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Background Information and Data, <u>www.gov.uk/hs2</u>

Appendix EC-016-005

- Ecological baseline data otter and water vole (Background Information and Data: BID-EC-010-000);
- Ecological baseline data hazel dormouse (Background Information and Data: BID-EC-011-000);
- Ecological baseline data bats (Background Information and Data: BID-EC-012-000);
- Ecological baseline data white clawed crayfish and other invertebrate (Background Information and Data: BID-EC-013-000); and
- Ecological baseline data fish (Background Information and Data: BID-EC-014-000).
- 1.1.5 Note that baseline data for badger is not made publically available due to the historic persecution of this species.

Table 1: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CA5

CA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/ No)
CA ₅	Local Wildlife Site (LWS)	Bankside vegetation associated within Basford Brook and Mere Gutter LWS	Construction	Permanent loss of o.2ha (1.9%) of bankside vegetation within the Basford Brook and Mere Gutter LWS as a result of construction of the Network Rail Maintenance Access Road to the south-east of Crewe.	Yes
CA ₅	LWS	Grassland and trees within Basford Brook LWS	Construction	Permanent loss of o.1ha (o.8%) of habitat within the LWS from excavation of a drainage channel.	Yes
CA ₅	Woodland	Lowland mixed deciduous woodland at Lower Den Farm	Construction	Permanent loss of o.1ha (41%) of lowland mixed deciduous woodland as a result of construction of construction of the Blakenhall Bridleway 8 accommodation overbridge and the realignment of Blakenhall Bridleway 8.	Yes
CA ₅	Woodland	Lowland mixed deciduous woodland at Coppice Bank	Construction	Permanent loss of o.5ha (84%) of lowland mixed deciduous woodland as a result of works on the West Coast Main Line(WCML)	Yes
CA ₅	Woodland	Lowland mixed deciduous woodland at Wychwood Park	Construction	Permanent loss of o.o2ha (1%) of lowland mixed deciduous woodland as a result of construction of Chorlton Lane extension and balancing pond	Yes
CA ₅	Woodland	Lowland mixed deciduous woodland west of Chorlton Lane	Construction	Permanent loss of o.o2ha (4%) of lowland mixed deciduous woodland of Chorlton Lane extension and balancing pond	Yes
CA ₅	Woodland	Lowland mixed deciduous woodland at Basford Hall	Construction	Permanent loss of o.o2ha (o.oo5%) of lowland mixed deciduous woodland from construction of access track and work on WCML	Yes

CA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/ No)
CA ₅	Grassland	Marshy grassland to the south-east of Heath Farm	Construction	Permanent loss of approximately 2ha of marshy grassland from construction of Chorlton Cutting	Yes
CA ₅	Grassland	Poor semi-improved grassland	Construction	Permanent loss of approximately 6.5ha of poor semi-improved grassland throughout the South Cheshire area	Yes
CA ₅	Watercourse	Unnamed watercourses within the land required for the Proposed Scheme	Construction	Diversion and culverting of watercourses	Yes
CA ₅	Water bodies	Ponds throughout the South Cheshire area that are found, following further survey, to not qualify as habitats of principal Importance i.e. through presence of notable flora and fauna	Construction	Partial or complete loss of pond habitats to land required for construction of the Proposed Scheme	Yes
CA ₅	Bats	Assemblage of common bat species associated with habitats around Chorlton	Construction	Permanent loss and disturbance of summer and feeding roosts in trees and buildings and habitat loss	Yes
CA ₅	Bats	Assemblage of common bat species associated with habitats around Basford	Construction	Permanent loss and of summer roosts in trees and habitat loss	Yes
CA ₅	Amphibians	Populations of amphibian species (other than great crested newt) within ponds throughout the South Cheshire area	Construction	Permanent loss of amphibian populations within land required for the Proposed Scheme.	Yes
CA ₅	Water vole	Potential water vole populations along Checkley and Swill Brook	Construction	Disturbance, diversion and culverting of watercourses	Yes
CA ₅	Reptiles	Potential small populations of common species within suitable habitat in the South Cheshire area	Construction	Permanent loss and fragmentation of habitat as a result of construction of the Proposed Scheme	Yes
CA ₅	Otter	Potential otter populations along Checkley and Swill Brook	Construction	Habitat loss and disturbance associated with construction of the Proposed Scheme	Yes

CA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/ No)
CA ₅	Terrestrial invertebrates	Notable invertebrate <i>Agelasticaalni</i> is a species associated with wet woodlands	Construction	The precise location of the record of this species is unknown and impact significance therefore difficult to predict. However the permanent loss of part of the woodland is assessed as significant at the local/parish level on the precautionary basis	Yes
CA ₅	Fish	Fish assemblages in Swill Brook	Construction	Fish assemblages in the Swill Brook will be affected during the works to construction of theHS2 mainline due to culverting of associated watercourses. This will result in an adverse effect that will be significant at up to the local/parish level. Indirect effects will not be significant as they will be controlled through the implementation of measures in the draft CoCP (see Volume 5: Appendix CT-003-000)	Yes
CA ₅	Notable plant species	Population of bluebells north-west of Coppice Bank, south-west of Coppice Bank and north of Grange Farm	Construction	Permanent loss of habitat that supports bluebells as a result of construction of the Proposed Scheme	Yes
CA ₅	Badger	Badgers throughout the South Cheshire area with three main setts and other field signs indicating the likely presence of at least three social groups	Construction	Loss of setts and foraging habitat as a result of construction of the Proposed Scheme	Yes
CA ₅	Polecat	Potential populations present in the South Cheshire area	Construction	Loss of suitable habitat for this species within the land required for construction of the Proposed Scheme	Yes
CA ₅	Harvest mouse	Potential populations present in the South Cheshire area	Construction	Loss of suitable habitat for this species within the land required for construction of the Proposed Scheme	Yes

CA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/ No)
CA ₅	European hedgehog	Potential populations present in the South Cheshire area	Construction	Loss of suitable habitat for this species within the land required for construction of the Proposed Scheme	Yes
CA ₅	Brown hare	Potential populations present in the South Cheshire area	Construction	Loss of suitable habitat for this species within the land required for construction of the Proposed Scheme	Yes
CA ₅	Hazel dormouse	Potential populations present in the South Cheshire area	Construction	Loss of suitable habitat for this species within the land required for construction of the Proposed Scheme	Yes

2 References

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data - phase 1 habitat survey, (BID-EC-002-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data - protected and or notable flora, (BID-EC-003-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, (Ecological baseline data - national vegetation classification and ancient woodland, BID-EC-004-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data – hedgerows, (BID-EC-005-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data - river habitat, river corridor, and ditch surveys, (BID-EC-006-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), *High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data - amphibian and pond surveys*, (BID-EC-007-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data – reptiles, (BID-EC-008-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), *High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data - breeding and wintering birds*, (BID-EC-009-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data - otter and water vole, (BID-EC-010-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data - hazel dormouse, (BID-EC-011-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data – bats, (BID-EC-012-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data - white clawed crayfish and other invertebrate, (BID-EC-013-000). Available online at: www.gov.uk/hs2.

HS2 Ltd (2017), High Speed Two Phase 2a: West Midlands to Crewe, Background Information and Data, Ecological baseline data – fish, (BID-EC-014-000). Available online at: www.gov.uk/hs2.

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

08081 434 434 HS2Enquiries@hs2.org.uk