

High Speed Rail (Crewe – Manchester) Environmental Statement

Volume 5: Appendix EC-015-0MA06

Ecology and biodiversity

MA06: Hulseheath to Manchester Airport
Ecological register of local level effects

High Speed Rail (Crewe – Manchester) Environmental Statement

Volume 5: Appendix EC-015-0MA06

Ecology and biodiversity

MA06: Hulseheath to Manchester Airport
Ecological register of local level effects



Department
for Transport

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:

ARUP+ ERM | FOSTER + PARTNERS | JACOBS
RAMBOLL | TYPESA | COSTAIN

MWJV

Mott MacDonald | WSP

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, 2022, 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 v3.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/3 **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	2
-----------------------	----------

Tables

Table 1: Summary of local/parish level adverse effects arising from the construction and operation of the Proposed Scheme within MA06	4
---	---

1 Introduction

- 1.1.1 This report is an appendix to the ecological assessment.
- 1.1.2 Table 1 provides a summary of the anticipated local/parish level adverse effects on ecological receptors arising from the construction and operation of the HS2 Phase 2b Proposed Scheme in the Hulseheath to Manchester Airport area (MA06).
- 1.1.3 This appendix should be read in conjunction with:
- Volume 2, Community Area (CA) reports;
 - Volume 3, Route-wide effects;
 - Volume 4, Off-route effects; and
 - Volume 5, Appendices.
- 1.1.4 See Volume 5, Appendix EC-001-00001 and the Ecology and Biodiversity Map Book (Map Series EC-01), for ecological designated sites, and Appendices EC-016-00001 to EC-016-00007 and EC-016-00009 for documents to inform Habitats Regulations Assessment screening and Appropriate Assessment.
- 1.1.5 In addition, the baseline data used for the ecological assessment is set out in Background Information and Data (BID) reports¹, (see BID EC-002-00001 to BID EC-013-00001) and the BID Ecology Map Books² (Map Series EC-02 and EC-04 to EC-12) showing habitats and species relevant to the Proposed Scheme. The full list of ecological BID reports is as follows:
- Ecological baseline data – Phase 1 Habitat Survey (BID EC-002-00001);
 - Ecological baseline data – protected and notable flora (BID EC-003-00001);
 - Ecological baseline data – National Vegetation Classification and ancient woodland (BID EC-004-00001);
 - Ecological baseline data – hedgerows (BID EC-005-00001);
 - Ecological baseline data – river habitat, river macrophyte, and ditch surveys (BID EC-006-00001);
 - Ecological baseline data – amphibian and pond and canal surveys (BID EC-007-00001);
 - Ecological baseline data – reptiles (BID EC-008-00001);
 - Ecological baseline data – breeding and wintering birds (BID EC-009-00001);
 - Ecological baseline data – otter and water vole (BID EC-010-00001);

¹ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Background Information and Data*, BID EC-002-00001 to BID EC-013-00001. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

² High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Background information and Data, Ecology Map Book: Map Series EC-02 and EC-04 to EC-12*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

Environmental Statement

Volume 5: Appendix EC-015-0MA06

Ecology and biodiversity

MA06: Hulseheath to Manchester Airport

Ecological register of local level effects

- Ecological baseline data – bats (BID EC-011-00001);
- Ecological baseline data – white-clawed crayfish and other invertebrates (BID EC-012-00001); and
- Ecological baseline data – fish (BID EC-013-00001).

1.1.6 Note that baseline data for badger is not made publicly available due to the current and historic persecution of this species (BID EC-14-00001).

Environmental Statement
Volume 5: Appendix EC-015-0MA06
Ecology and biodiversity
MA06: Hulseheath to Manchester Airport
Ecological register of local level effects

Table 1: Summary of local/parish level adverse effects arising from the construction and operation of the Proposed Scheme within MA06

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)
MA06	Woodland	Twenty-one woodlands, each less than 1.5ha and none within wildlife site designations.	Construction	Permanent loss of 3.7ha of habitat as a result of construction of the Proposed Scheme.	Yes
MA06	Grassland	Parcels of species-poor, semi-improved grassland and marshy grassland collectively, covers an area of 111.7ha throughout the Hulseheath to Manchester Airport area, within the land required for the Proposed Scheme.	Construction	Permanent loss of 111.7ha (100%) of habitat as a result of construction of the Proposed Scheme.	Yes
MA06	Watercourses	Several smaller watercourses, including those associated with Birkin Brook, the River Bollin, Timperley Brook and Sugar Brook.	Construction	Permanent and temporary loss and degradation of habitat as a result of realignment or culverting of smaller watercourses during construction of the Proposed Scheme.	Yes
MA06	Amphibians	Populations of other amphibian species, including palmate newt (<i>Lissotriton helveticus</i>), smooth newt (<i>Lissotriton vulgaris</i>), common toad (<i>Bufo bufo</i>) and common frog (<i>Rana temporaria</i>), in the Hulseheath to Manchester Airport area.	Construction	Loss and fragmentation of breeding/foraging habitat and dispersal routes from construction activities.	Yes
MA06	Birds	Breeding bird assemblage between Booth Bank and Newhall Farm.	Construction	Permanent loss and degradation of habitat used by breeding birds as a result of construction of the Proposed Scheme.	Yes
MA06	Birds	Wintering bird assemblage between Booth Bank and Newhall Farm.	Construction	Permanent loss and degradation of habitat used by wintering birds as a result of construction of the Proposed	Yes

Environmental Statement
Volume 5: Appendix EC-015-0MA06
Ecology and biodiversity
MA06: Hulseheath to Manchester Airport
Ecological register of local level effects

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)
				Scheme.	
MA06	Birds	Breeding bird assemblage between Cherry Tree Farm and Mobberley Road.	Construction	Permanent loss and degradation of habitat used by breeding birds as a result of construction of the Proposed Scheme.	Yes
MA06	Birds	Wintering bird assemblage between Ryecroft Farm and Mobberley Road.	Construction	Permanent loss and degradation of habitat used by wintering birds as a result of construction of the Proposed Scheme.	Yes
MA06	Birds	Wintering bird assemblage at Rostherne Mere.	Construction	Permanent loss and degradation of habitat used by wintering birds as a result of construction of the Proposed Scheme.	Yes
MA06	Birds	Potential kingfisher (<i>Alcedo atthis</i>) populations in the Hulseheath to Manchester Airport area.	Construction	Permanent loss and degradation of habitat potentially used by breeding kingfisher as a result of construction of the Proposed Scheme.	Yes
MA06	Fish	Fish assemblage in Agden Brook.	Construction	Temporary loss and degradation of aquatic habitat where the Proposed Scheme crosses watercourses.	Yes
MA06	Fish	Fish assemblage in Blackburn's Brook.	Construction	Temporary loss and degradation of aquatic habitat where the Proposed Scheme crosses watercourses.	Yes
MA06	Aquatic invertebrates	Aquatic macro-invertebrate assemblage in Millington Clough.	Construction	Temporary loss and degradation of aquatic habitat where the Proposed Scheme crosses watercourses.	Yes
MA06	Aquatic invertebrates	Aquatic macro-invertebrate assemblage in Agden Brook.	Construction	Temporary loss and degradation of aquatic habitat where the Proposed Scheme crosses watercourses.	Yes
MA06	Aquatic invertebrates	Aquatic macro-invertebrate assemblage in Tributary of Timperley Brook 1.	Construction	Temporary loss and degradation of aquatic habitat where the Proposed Scheme crosses watercourses.	Yes
MA06	Terrestrial Invertebrates	Invertebrate assemblage north of Millington Clough.	Construction	Permanent loss and degradation of habitat/habitat fragmentation resulting from construction of the	Yes

Environmental Statement

Volume 5: Appendix EC-015-0MA06

Ecology and biodiversity

MA06: Hulseheath to Manchester Airport

Ecological register of local level effects

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)
				Proposed Scheme.	
MA06	Terrestrial Invertebrates	Invertebrate assemblage on the northern bank of the River Bollin.	Construction	Permanent loss and degradation of habitat/habitat fragmentation resulting from construction of the Proposed Scheme.	Yes
MA06	Reptiles	Potential small populations of common reptiles in the Hulseheath to Manchester Airport area.	Construction	Permanent loss and degradation of small areas of suitable habitat including field margins, edges of woodland and scrub habitat and isolated small patches of overgrown grassland as a result of construction of the Proposed Scheme.	Yes
MA06	Badger	Population of badgers (<i>Meles meles</i>) at undisclosed locations in the Hulseheath to Manchester Airport area.	Construction and operation	Permanent loss and degradation of habitat/habitat fragmentation resulting from construction of the Proposed Scheme. Two main setts were recorded within or immediately adjacent to land required for construction of the Proposed Scheme. Land required for construction of the Proposed Scheme includes pasture, arable, hedgerow and woodland habitats that form a foraging resource for badger social groups.	Yes

High Speed Two (HS2) Limited

Two Snowhill

Snow Hill Queensway

Birmingham B4 6GA

Freephone: 08081 434 434

Minicom: 08081 456 472

Email: HS2enquiries@hs2.org.uk