

# High Speed Rail (Crewe – Manchester) Environmental Statement

## Volume 5: Appendix EC-015-0MA07

### **Ecology and biodiversity**

MA07: Davenport Green to Ardwick

Ecological register of local level effects

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## 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.

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# 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 Davenport Green to Ardwick area (MA07).
- 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) reports<sup>1</sup>, (see BID EC-002-00001 to BID EC-013-00001) and the BID Ecology Map Books<sup>2</sup> (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 corridor, 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);

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<sup>1</sup> 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>.

<sup>2</sup> 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>.

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- Ecological baseline data – otter and water vole (BID EC-010-00001);
- 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).

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**Table 1: Summary of local/parish level adverse effects arising from the construction and operation of the Proposed Scheme within MA07**

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)
MA07	Grassland	Parcels of species-poor, semi-improved grassland collectively, covers an area of 5.8ha throughout the Davenport Green to Ardwick area, within the land required for the construction of the Proposed Scheme.	Construction	Permanent loss of 2.7ha (47%) of habitat as a result of construction of the Proposed Scheme at Palatine Road Vent Shaft.	Yes
MA07	Hedgerow	Hedgerow in the Davenport Green to Ardwick area includes 293m native species-poor hedgerow and 313m native species-rich hedgerow (this is precautionary as 313m has not been subject to survey).	Construction	Permanent loss of hedgerow habitat as a result of construction of the Proposed Scheme leading to fragmentation of the wider hedgerow network.	Yes
MA07	Watercourses	Fairywell Brook.	Construction	Degradation of habitat as a result of indirect impacts to the watercourse during construction of the Proposed Scheme.	Yes
MA07	Scrub	Continuous scrub is located at Ardwick Depot.	Construction	Permanent loss of 2.2ha (100%) of habitat as a result of construction of the Proposed Scheme at Palatine Road Vent Shaft.	Yes
MA07	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 Davenport Green to Ardwick area.	Construction	Loss and fragmentation of breeding/foraging habitat and dispersal routes from construction activities.	Yes
MA07	Badger	Badger ( <i>Meles meles</i> ) populations in the Davenport Green to Ardwick area.	Construction and operation	Permanent loss and degradation of habitat/habitat fragmentation resulting from construction of the Proposed Scheme. Land required for the Proposed Scheme includes grassland, hedgerow and	Yes

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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)
				woodland habitats that form a foraging resource for badger social groups.	





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