

# **High Speed Rail (Crewe – Manchester)**

## **Background information and data**

### **Map Book**

### Ecology

(EC-02, EC-04, EC-05, EC-06, EC-07, EC-08,  
EC-09, EC-10, EC-11, EC-12) Part 5

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

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**MWJV**

Mott MacDonald | WSP

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# Contents

Mapping explanatory notes

Data dictionary and definitions

Map series name	Map series description	Map book part
EC-02 - Phase 1 Habitat (1:10,000)	This map series shows Phase 1 habitat survey information for land required and within 250m of the CCB of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field surveys, or the area mapped is between 250-500m from the CCB, the information is based on available desk studies and interpretation of aerial photography.	Background Information and Data map book – Ecology Part 1
EC-04 - Amphibians	This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of Great Crested Newt surveys. In addition, it shows the location of any 'exceptional' populations of common amphibians recorded.	Background Information and Data map book – Ecology Part 2
EC-05 – Bat - Roost	This map series shows results of field surveys conducted to investigate the potential for trees, buildings, or structures to support roosting bats. It shows the location of roosts confirmed by field surveys and features identified as having a high or moderate potential to support roosting bats.	Background Information and Data map book – Ecology Part 3
EC-06 – Bat - Activity	This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition, it shows the location of the key bat foraging and commuting routes, which have been established based on the survey work conducted.	Background Information and Data map book – Ecology Part 3
EC-07 - Reptiles	This map series shows the extent and results of survey work for common reptiles, undertaken to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 2
EC-08 - Breeding Birds – Protected and Notable Species	This map series shows records of protected and/or notable breeding birds considering the impacts of the Proposed Scheme. The location of nest sites for species, such as Barn Owl and raptor species which may be liable to persecution, are not displayed.	Background Information and Data map book – Ecology Part 4
EC-09 - Wintering and Passage Birds – Protected and Notable Species	This map series shows records of selected protected and/or notable wintering birds considering the impacts of the Proposed Scheme.	Background Information and Data map book – Ecology Part 4
EC-10 - Phase 2 Habitat Survey	This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'Important hedgerows' under the Hedgerows Regulations (1997).	Background Information and Data map book – Ecology Part 1
EC-11 - Other Protected and Notable Species (1)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 5
EC-12 - Other Protected and Notable Species (2)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 5

## Mapping explanatory notes

This map book is part of the background information and data (BID) for Phase 2b of the proposed High Speed Two (HS2) rail network between Crewe and Manchester (the Proposed Scheme), and comprises ecological baseline data. This map book does not form part of the Environmental Statement, but presents relevant ecological information for the Proposed Scheme.

## Copyright statements

Copyright statements are presented in the Data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

## Ordnance Survey data

All maps produced as part of the ES contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data. As part of our licence conditions, all digital maps carry a watermark.

## Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XXX+YYY, e.g. 192+000 or 239+500.

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres, e.g. 192+000 refers to the point, 192,000m, or 192km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:20,000, 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales, and therefore, showing differing amounts of alignment on the map.

## Map orientation

The maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the left hand side of the page, and Leeds or Manchester to the right.

## **High Speed Rail (Crewe - Manchester)**

Background Information and Data  
Data dictionary and definitions

# Data dictionary and definitions

Legend features	Definition	Source	Copyright
Aquatic invertebrate survey location	Location where aquatic invertebrate surveys were conducted.	High Speed Two (HS2) Ltd	0
Community area boundary	The Environmental Statement has been split into eight sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/borough/Unitary authority boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Fish survey location	Location where fish and aquatic invertebrate surveys were conducted.	High Speed Two (HS2) Ltd	
Terrestrial invertebrate survey extent			
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Otter terrestrial habitat	Areas of terrestrial habitat within 100m of the Proposed Scheme that are identified as having 'high' potential to act as otter breeding sites (i.e. those ranked as having a score of 5 on the scale devised by Chanin).	High Speed Two (HS2) Ltd	
Otter: Potential Holt Active Holt Suitable habitat	Location where otter surveys have been completed. Results vary from suitable habitat for otter, potential otter holt and active otter holt.	High Speed Two (HS2) Ltd	
Pond survey: National pond survey PSYM Rapid assessment method	Location and type of pond surveys conducted.	High Speed Two (HS2) Ltd	

<b>Legend features</b>	<b>Definition</b>	<b>Source</b>	<b>Copyright</b>
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Water vole: Survey undertaken, presence confirmed Survey undertaken, assumed absent Watercourse potentially suitable for water vole, no or limited access for survey	Extent of water vole survey. Those areas where access was available either had confirmed presence or water voles were assumed absent.	High Speed Two (HS2) Ltd	
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
White clawed crayfish: Manual search and/or trapping conducted Site identified as potentially suitable but no access available	Location where white clawed crayfish survey was conducted. Location categorised as to whether presence was confirmed, assumed absent or no access was available.	High Speed Two (HS2) Ltd	
Woodland (verified by survey)	Woodland areas derived from Ordnance Survey MasterMap data, limited in extent to 500m from the CCB.	High Speed Two (HS2) Ltd	

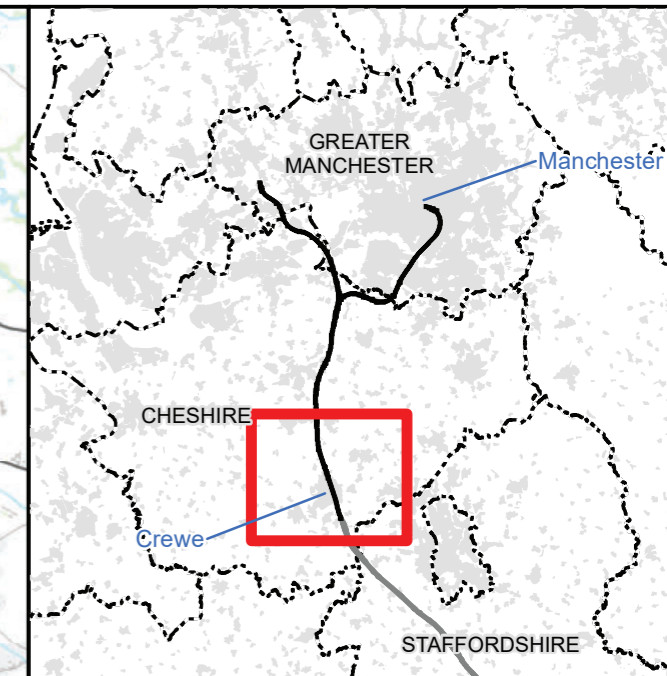
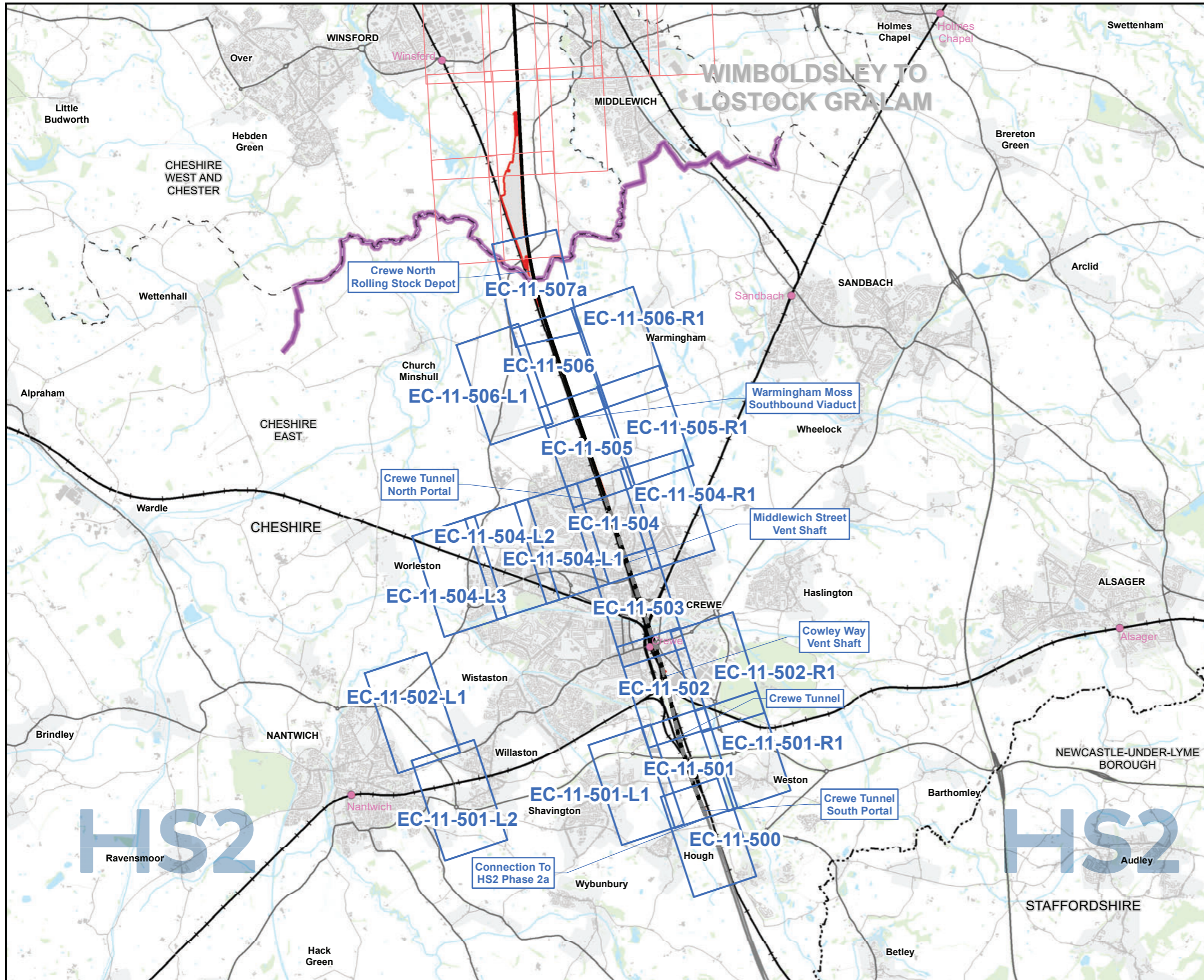


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## **High Speed Rail (Crewe - Manchester)**

Background Information and Data

EC-11 - Other Protected and Notable Species (1)



**Map Series Information:**

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number	EC-11-INDEX-MA01
Map Name	Index Map of: Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

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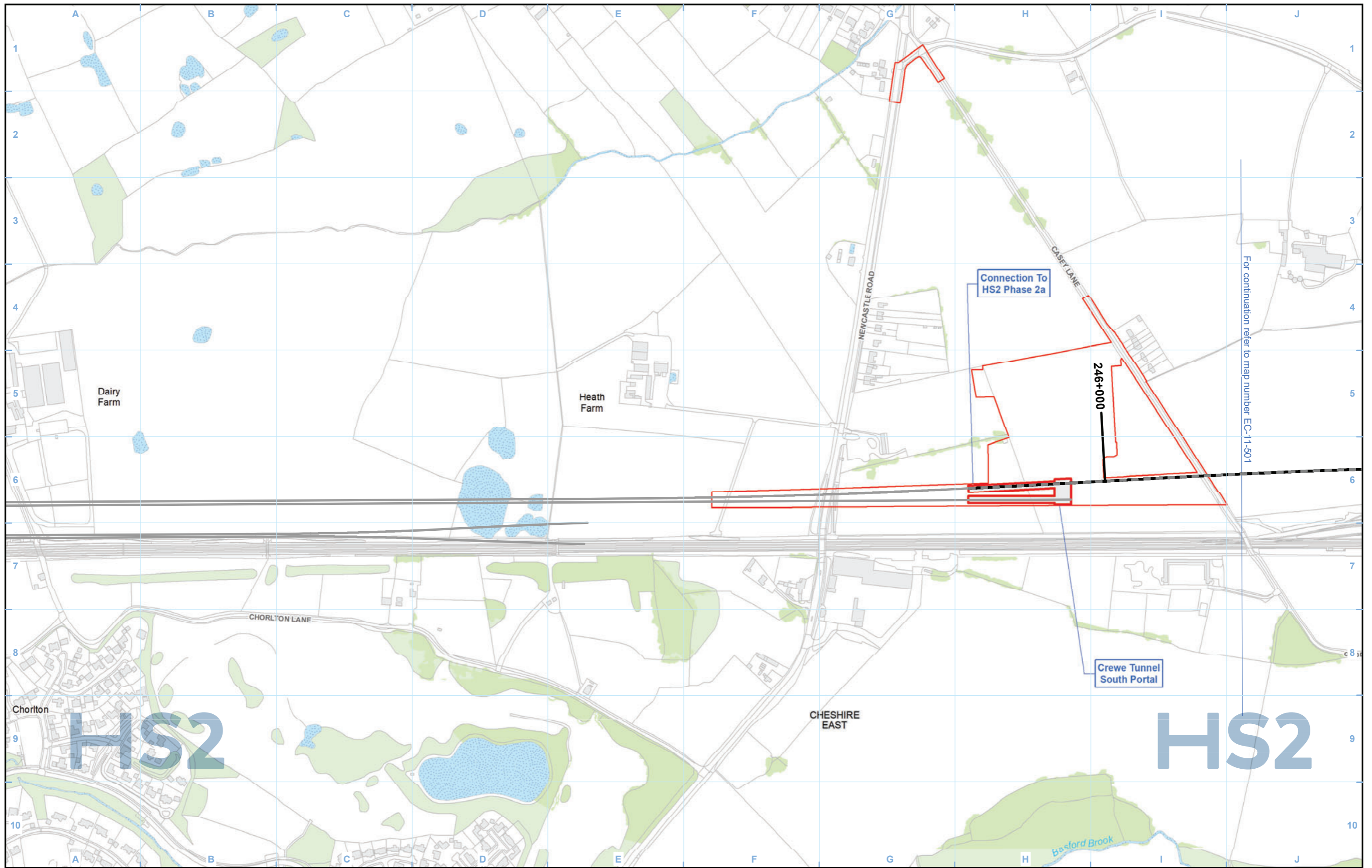
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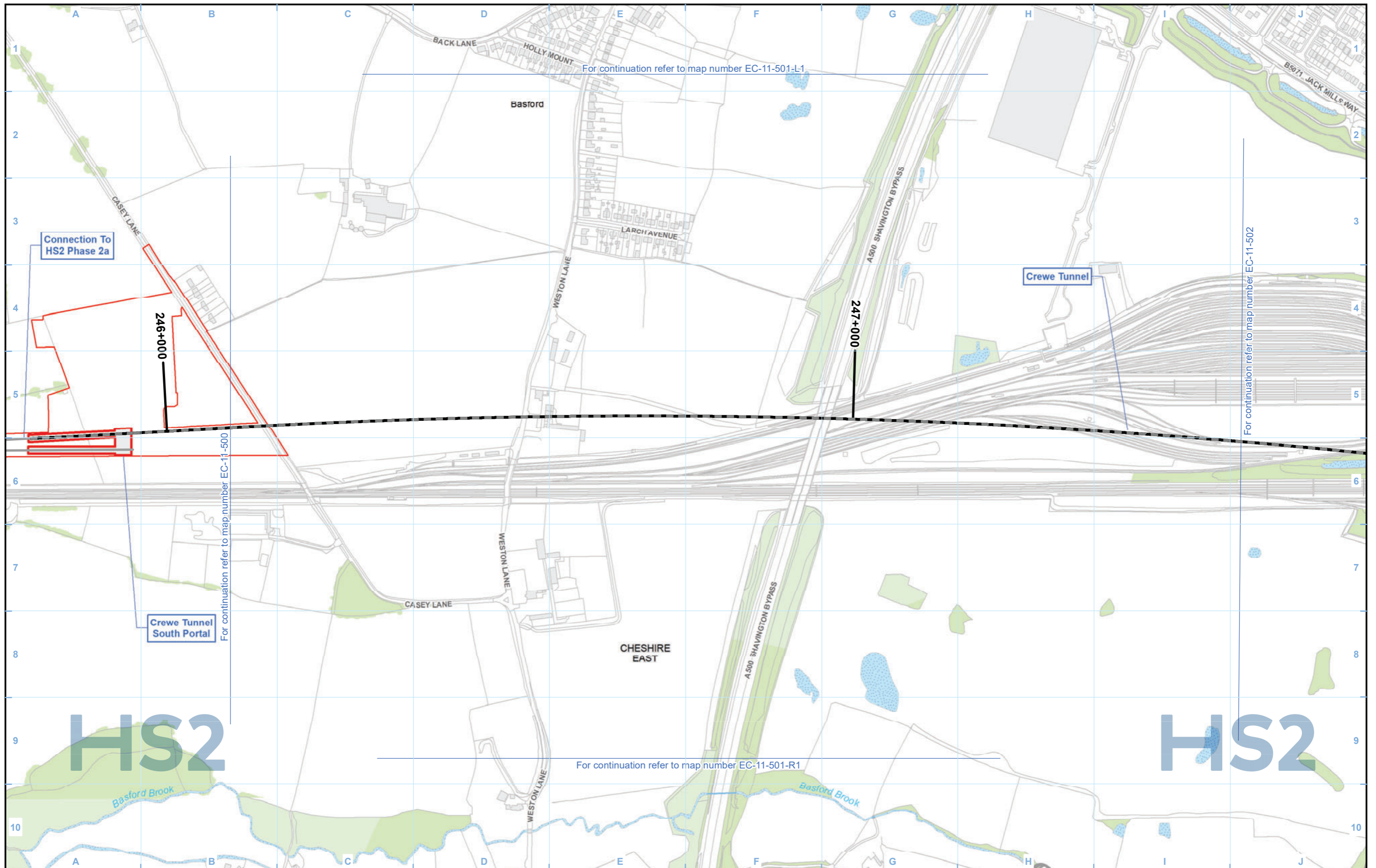
Date: 03/09/21

Note: Not all data layers in the legend are represented on every map.



For continuation refer to map number EC-11-501

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-500		<b>Map Name</b> Other Protected and Notable Species (1)				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<small>Scale at A3: 1:5,000</small> 	
<b>Community Area MA01:</b> Hough to Walley's Green		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003388-P01</small>		<small>Date: 03/09/21</small>			



Legend		Otter:	White clawed crayfish:	Pond survey:	Fish:
Route in tunnel	Watercourse	Active otter holt	Manual search and/or trapping conducted and presence confirmed	Pond survey - national pond survey	Fish survey location
Route on surface	Woodland (verified by survey)	Potential otter holt	Manual search and/or trapping conducted and assumed absent	Pond survey - PSYM	Terrestrial invertebrate survey extent
Depot, station, headhouse or portal building		Suitable habitat for otter	Site identified as potentially suitable but no access available	Pond survey - rapid assessment method	
Land potentially required during construction					
Community area boundary					
County boundary					
District/Borough boundary					

Map Number	EC-11-501
Map Name	Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

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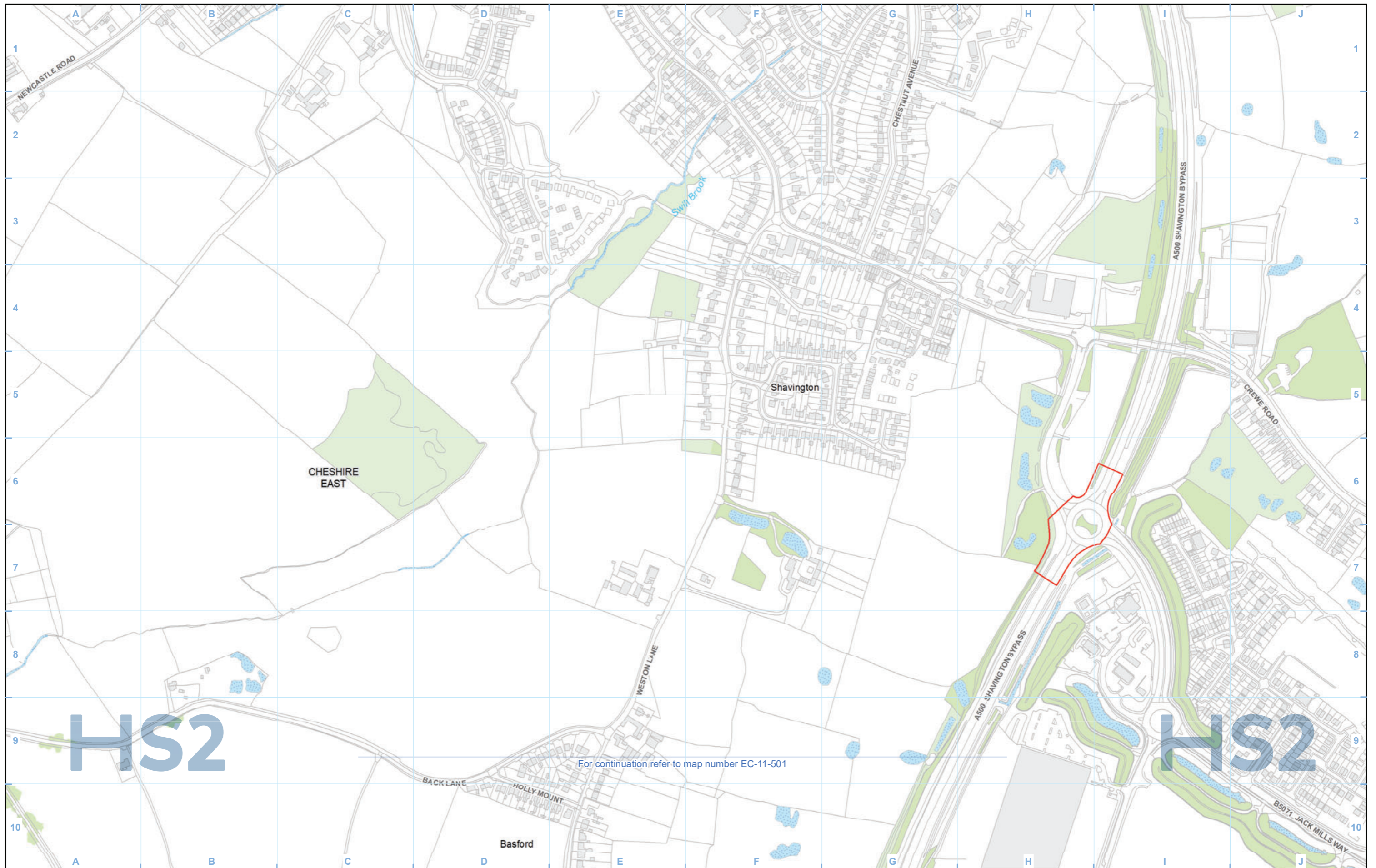
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For continuation refer to map number EC-11-501

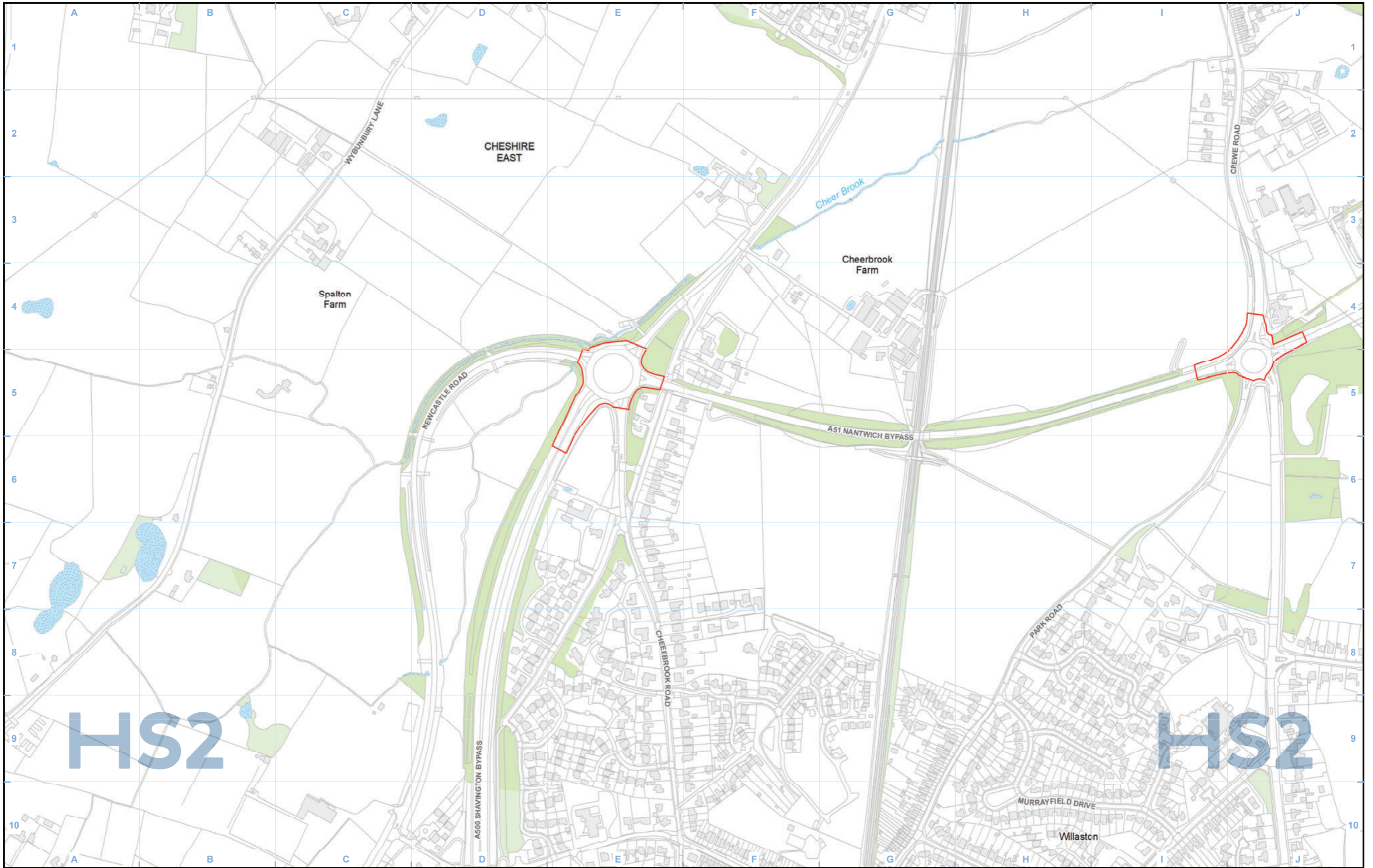
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<b>Community Area MA01:</b> Hough to Walley's Green						<b>Scale at A3: 1:5,000</b> 					
<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003389-P01						<b>Date:</b> 03/09/21					

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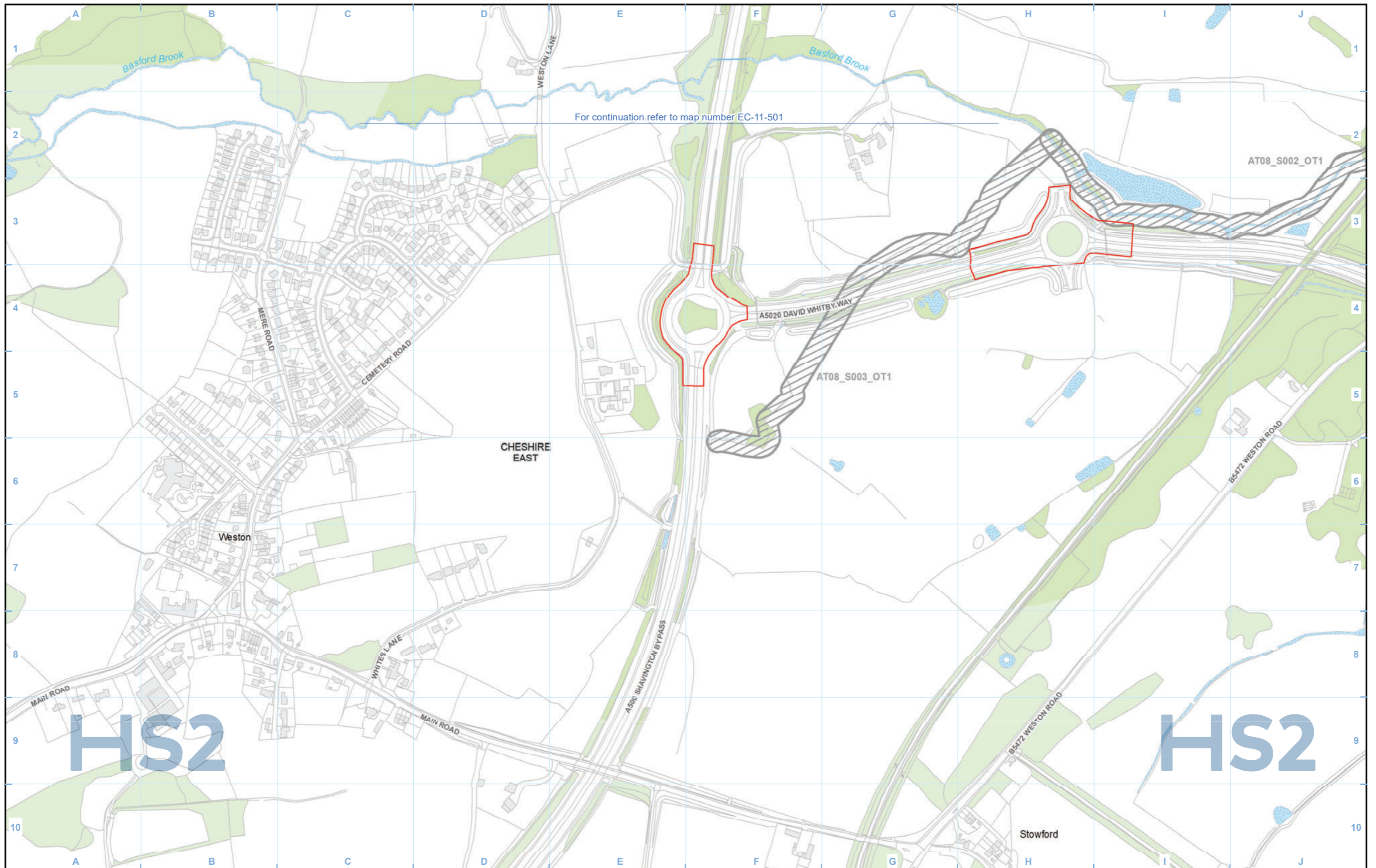
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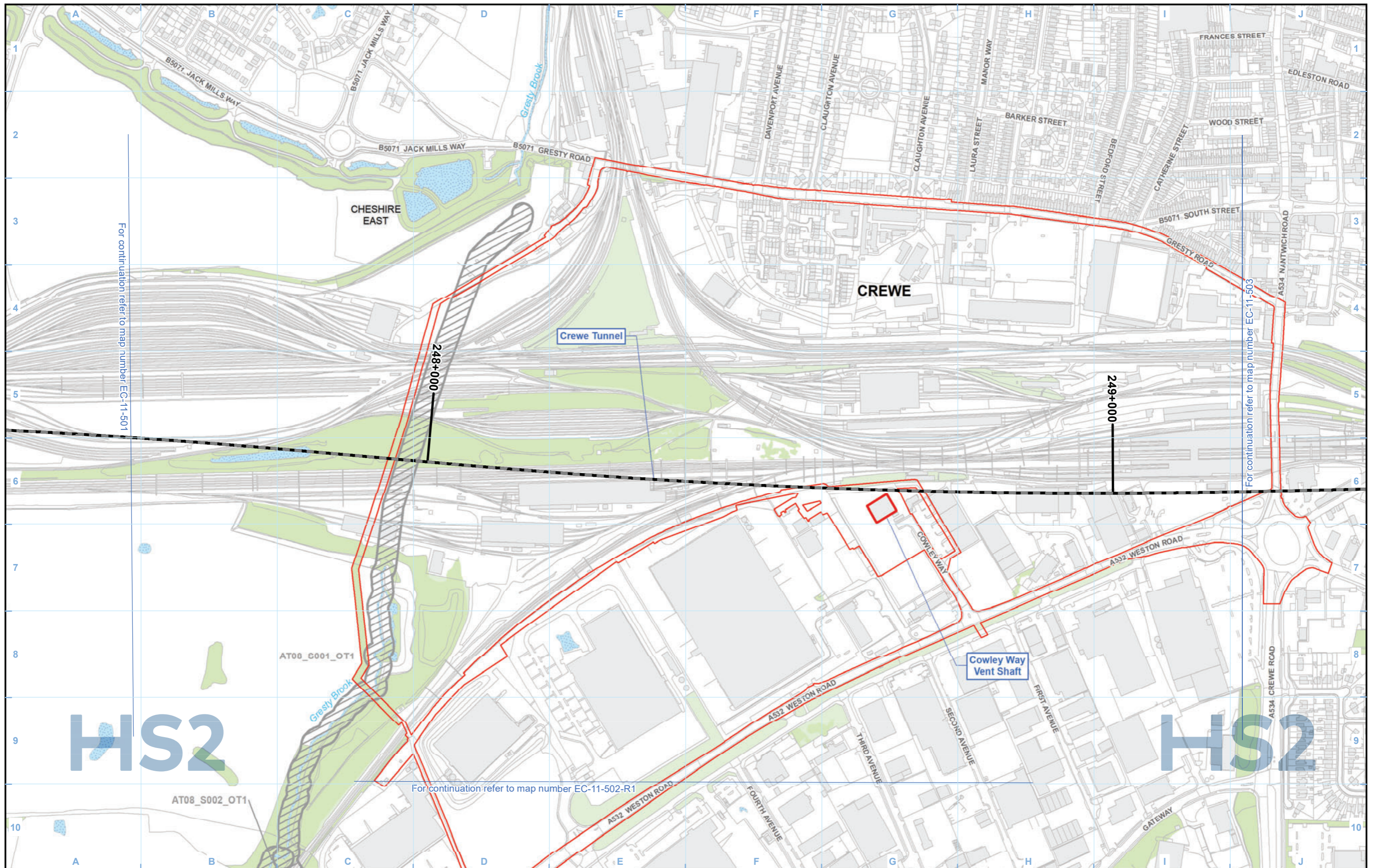
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<b>Map Name</b> Other Protected and Notable Species (1)		<b>Community Area MA01:</b> Hough to Walley's Green		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003390-P01</small>		<small>Date: 03/09/21</small>					



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<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otter holt</li> <li>Potential otter holt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
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<b>Community Area MA01:</b> Hough to Walley's Green		<b>Scale at A3: 1:5,000</b> 		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003391-P01		<b>Date:</b> 03/09/21					





For continuation refer to map number EC-11-501

For continuation refer to map number EC-11-503

For continuation refer to map number EC-11-502-R1

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number	EC-11-502
Map Name	Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

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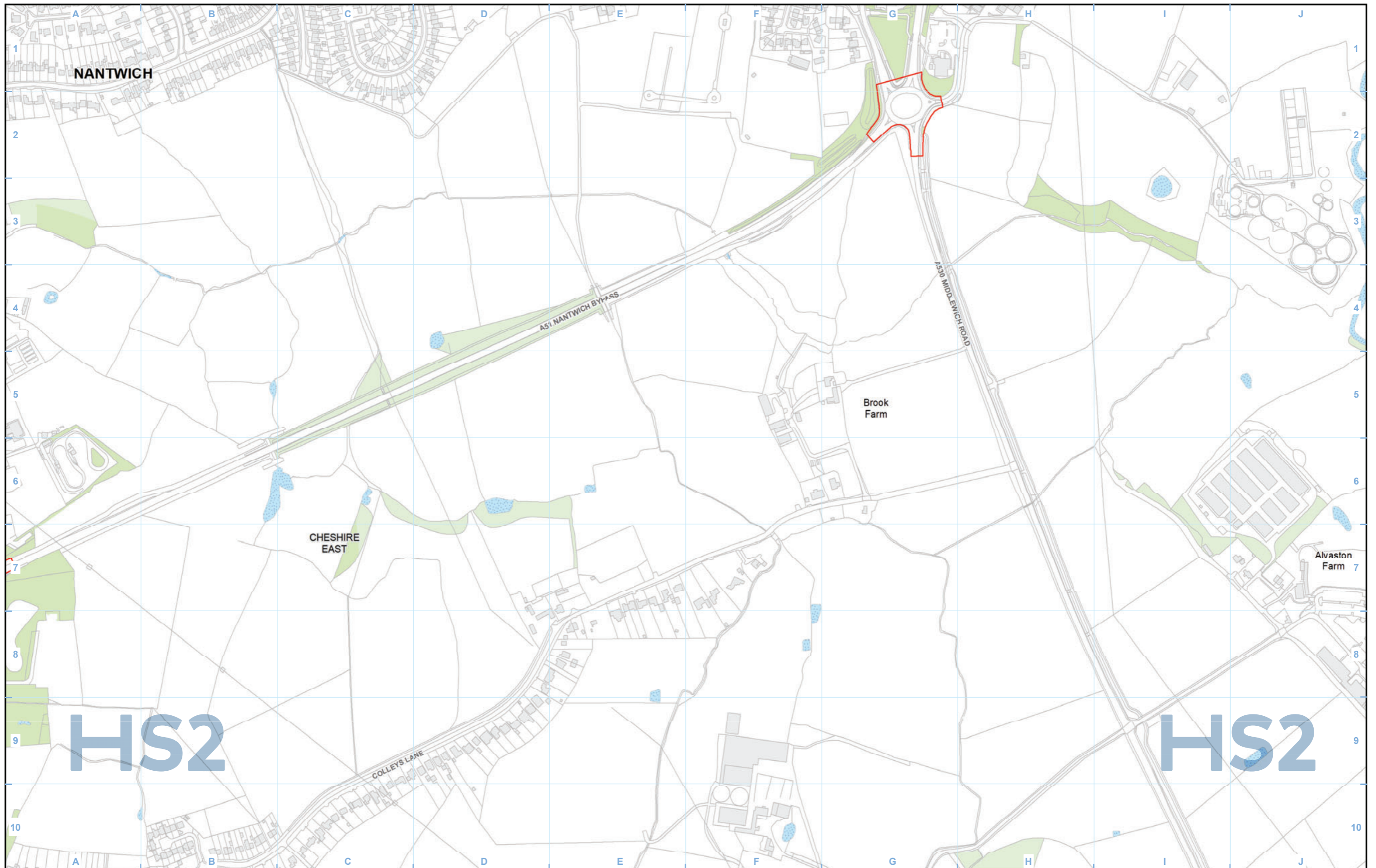
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Metres

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Legend		Otter:	White clawed crayfish:	Pond survey:	Fish:
	Route in tunnel				
	Route on surface				
	Depot, station, headhouse or portal building				
	Land potentially required during construction				
	Community area boundary				
	County boundary				
	District/Borough boundary				
	Watercourse				
	Woodland (verified by survey)				

Map Number	EC-11-502-L1
Map Name	Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

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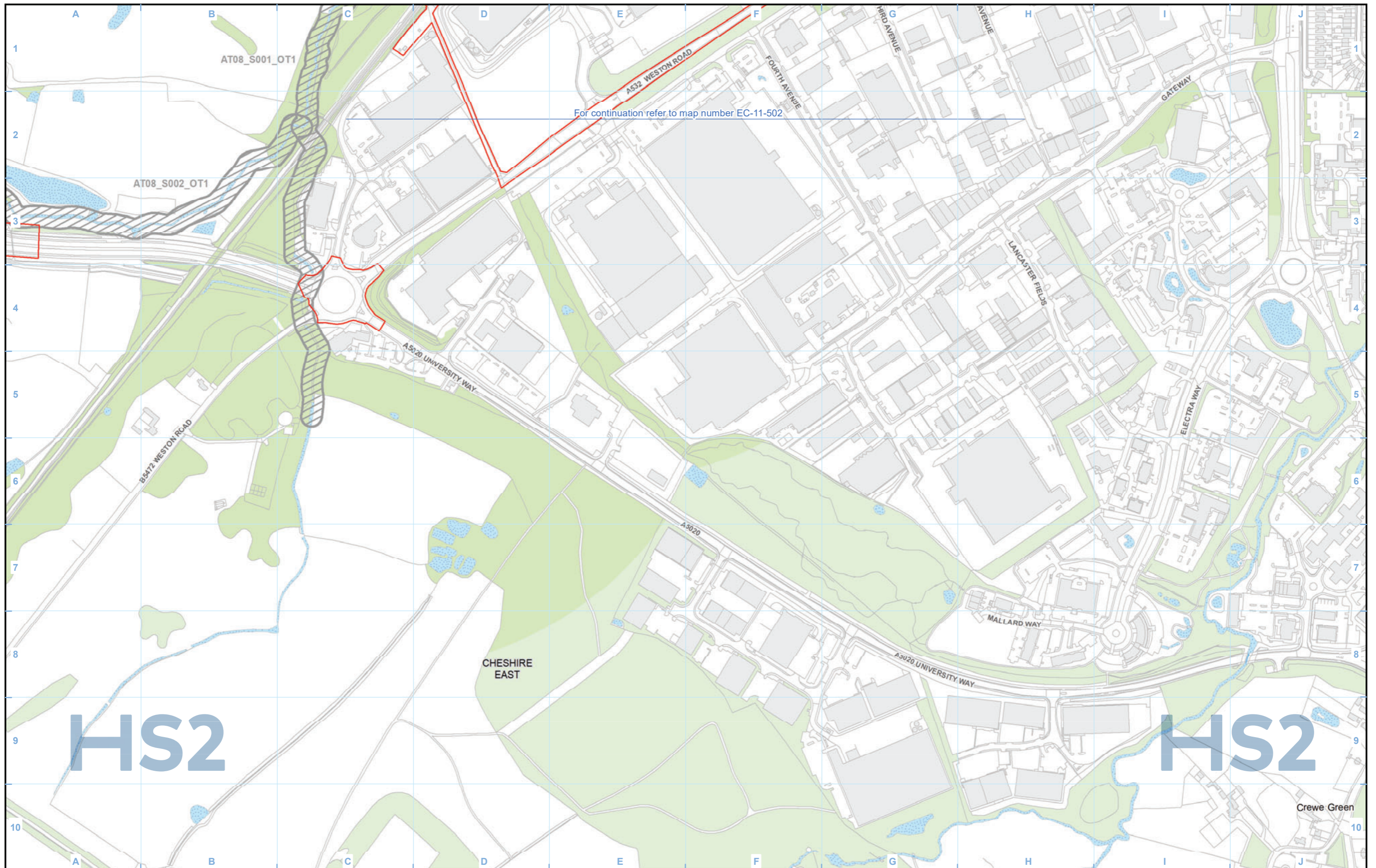
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**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial invertebrate survey extent

**Terrestrial Invertebrate**

- Terrestrial invertebrate survey extent

Map Number **EC-11-502-R1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA01:  
Hough to Walley's Green

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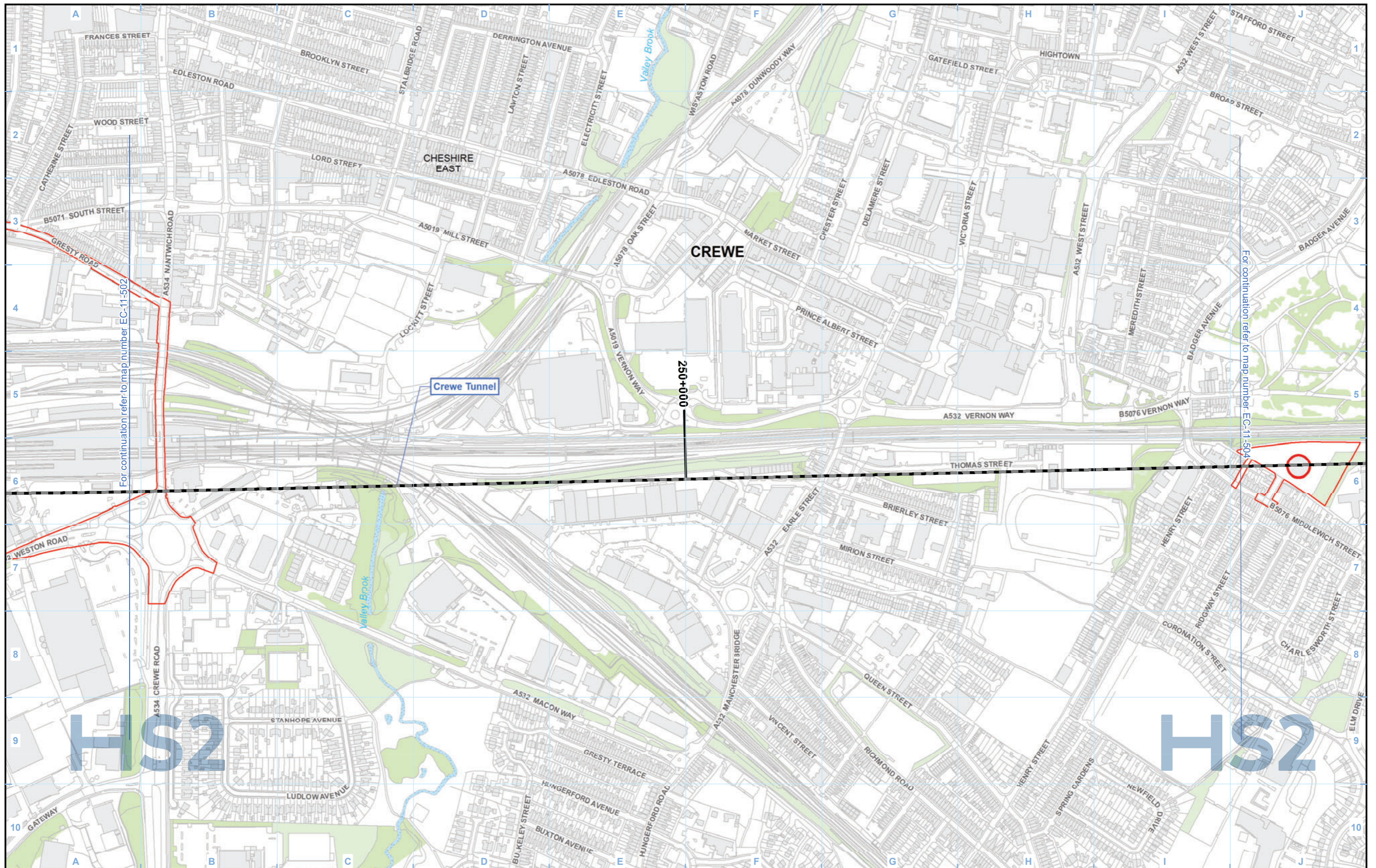
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For continuation refer to map number EC-11-502

For continuation refer to map number EC-11-504

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
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  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate survey extent

Map Number	EC-11-503
Map Name	Other Protected and Notable Species (1)
Community Area MA01: Hough to Walley's Green	

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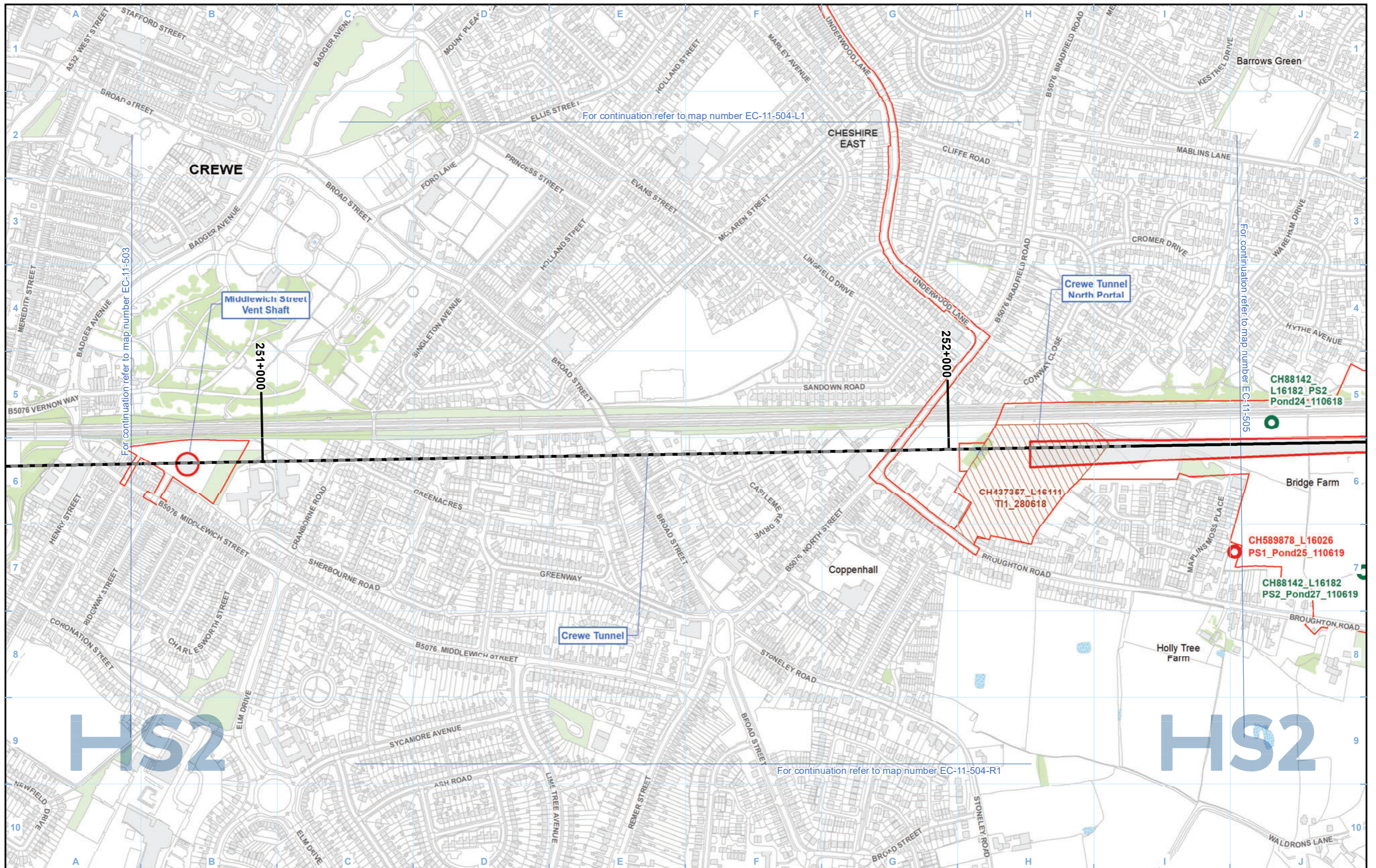
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Metres

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For continuation refer to map number EC-11-503

For continuation refer to map number EC-11-504-L1

For continuation refer to map number EC-11-505

For continuation refer to map number EC-11-504-R1

Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-504
Map Name	Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

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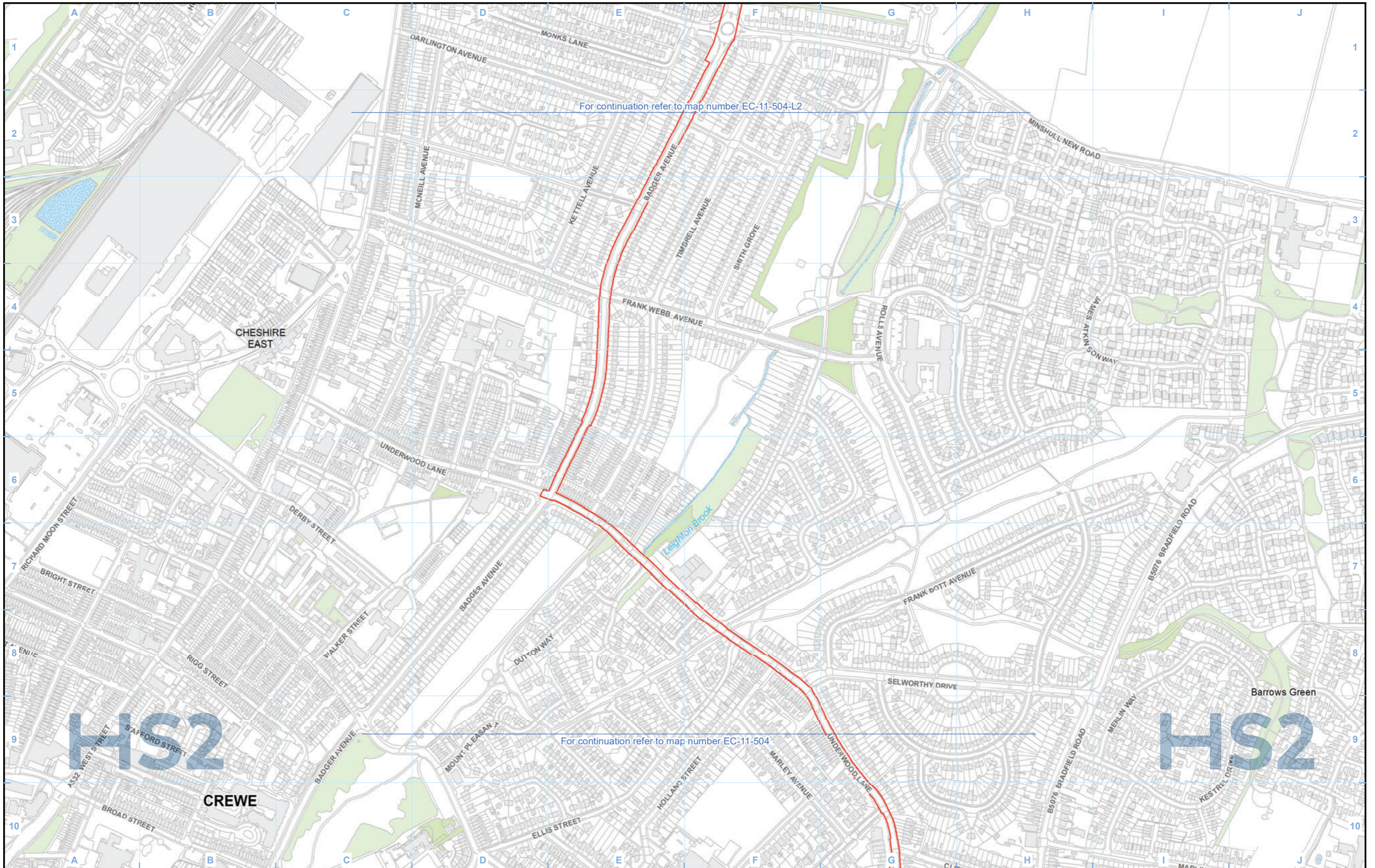
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Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Watercourse		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Fish survey location
	Route on surface		Woodland (verified by survey)		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Terrestrial Invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - national pond survey		Terrestrial invertebrate survey extent
	Land potentially required during construction						Pond survey - PSYM		
	Community area boundary						Pond survey - rapid assessment method		
	County boundary								
	District/Borough boundary								

Map Number	EC-11-504-L1
Map Name	Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

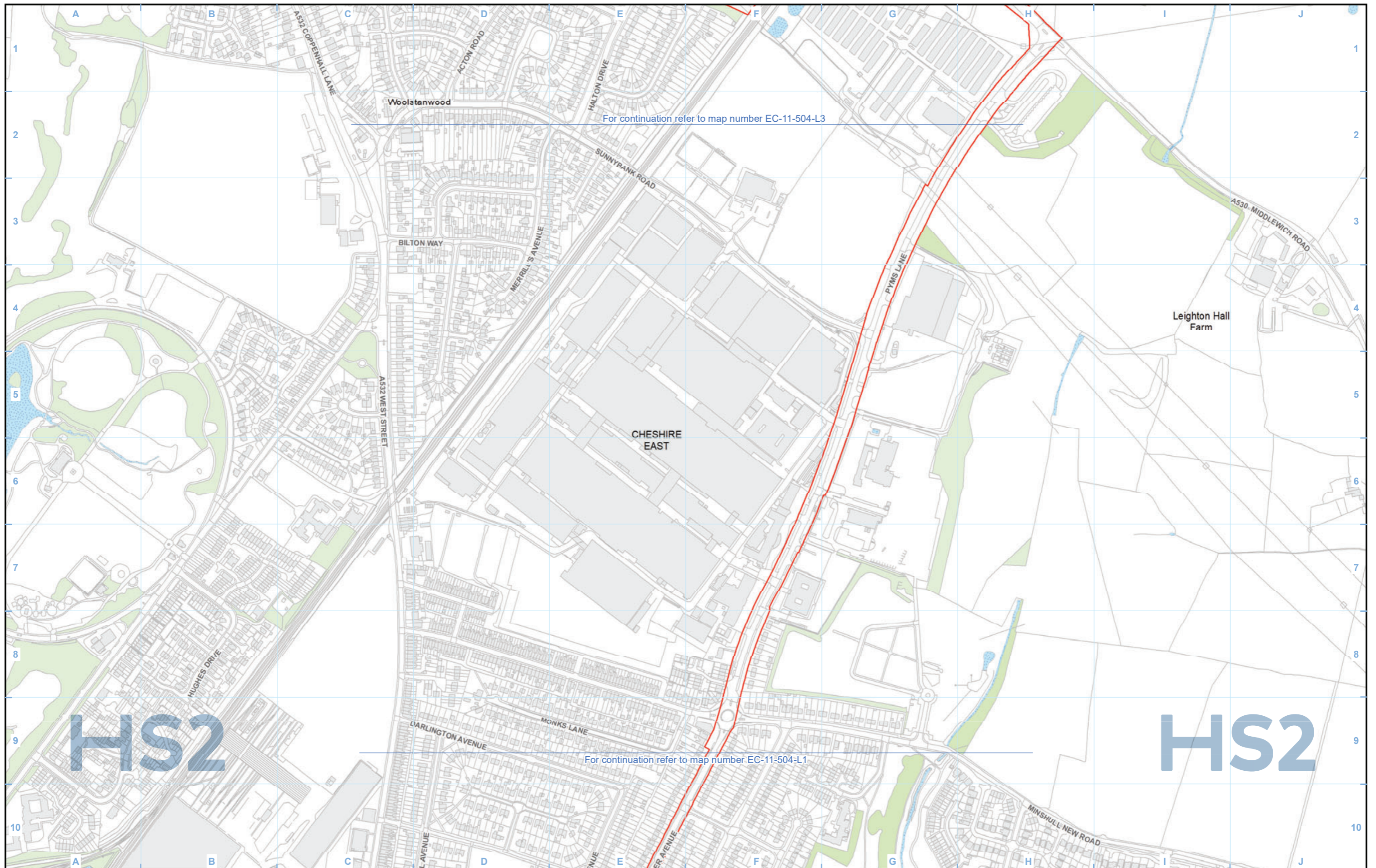
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Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-504-L2
Map Name	Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

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For continuation refer to map number EC-11-504-L2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)

- Otter:**
- Active otter holt
- Potential otter holt
- Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

- Fish:**
- Fish survey location
- Terrestrial Invertebrate**
- Terrestrial invertebrate survey extent

- Map Number** EC-11-504-L3
- Map Name** Other Protected and Notable Species (1)
- Community Area MA01:  
Hough to Walley's Green

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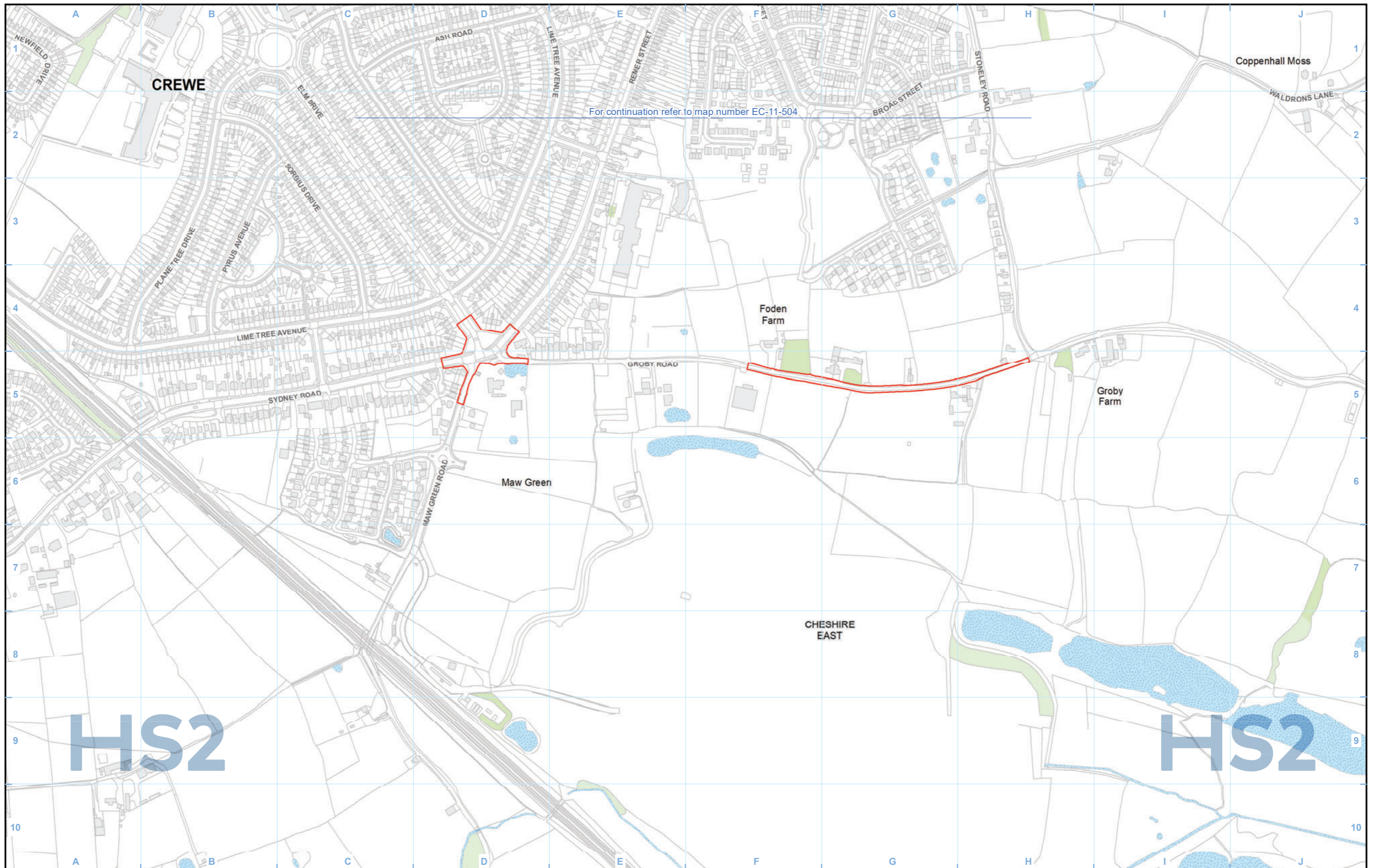
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Legend		Watercourse	Woodland (verified by survey)	Otter:	White clawed crayfish:	Pond survey:	Fish:
	Route in tunnel						
	Route on surface						Terrestrial Invertebrate
	Depot, station, headhouse or portal building						
	Land potentially required during construction						
	Community area boundary						
	County boundary						
	District/Borough boundary						

Map Number	EC-11-504-R1
Map Name	Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

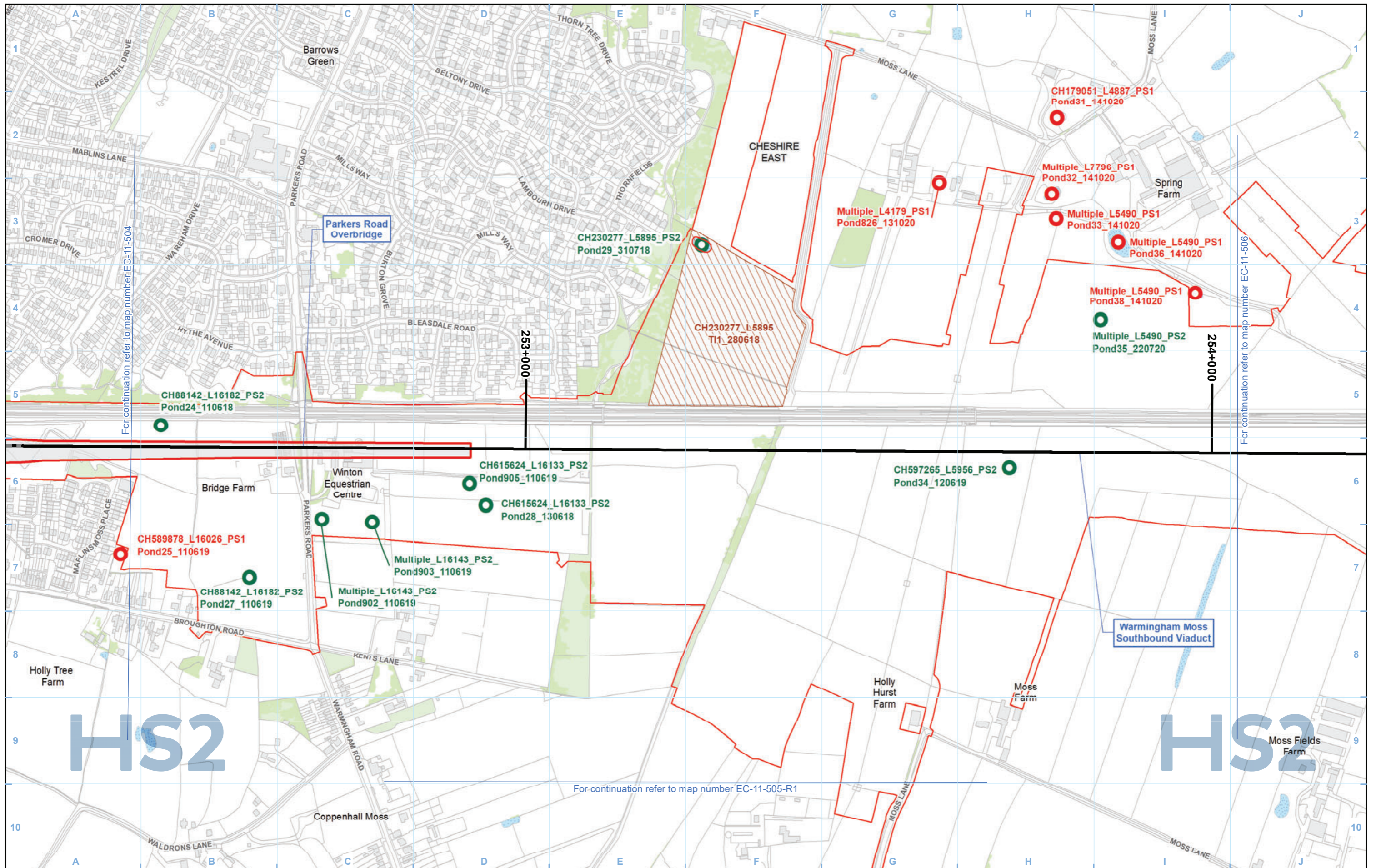
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For continuation refer to map number EC-11-504

For continuation refer to map number EC-11-506

For continuation refer to map number EC-11-505-R1

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate
  - Terrestrial invertebrate survey extent

- Map Number** EC-11-505
- Map Name** Other Protected and Notable Species (1)
- Community Area MA01:  
Hough to Walley's Green

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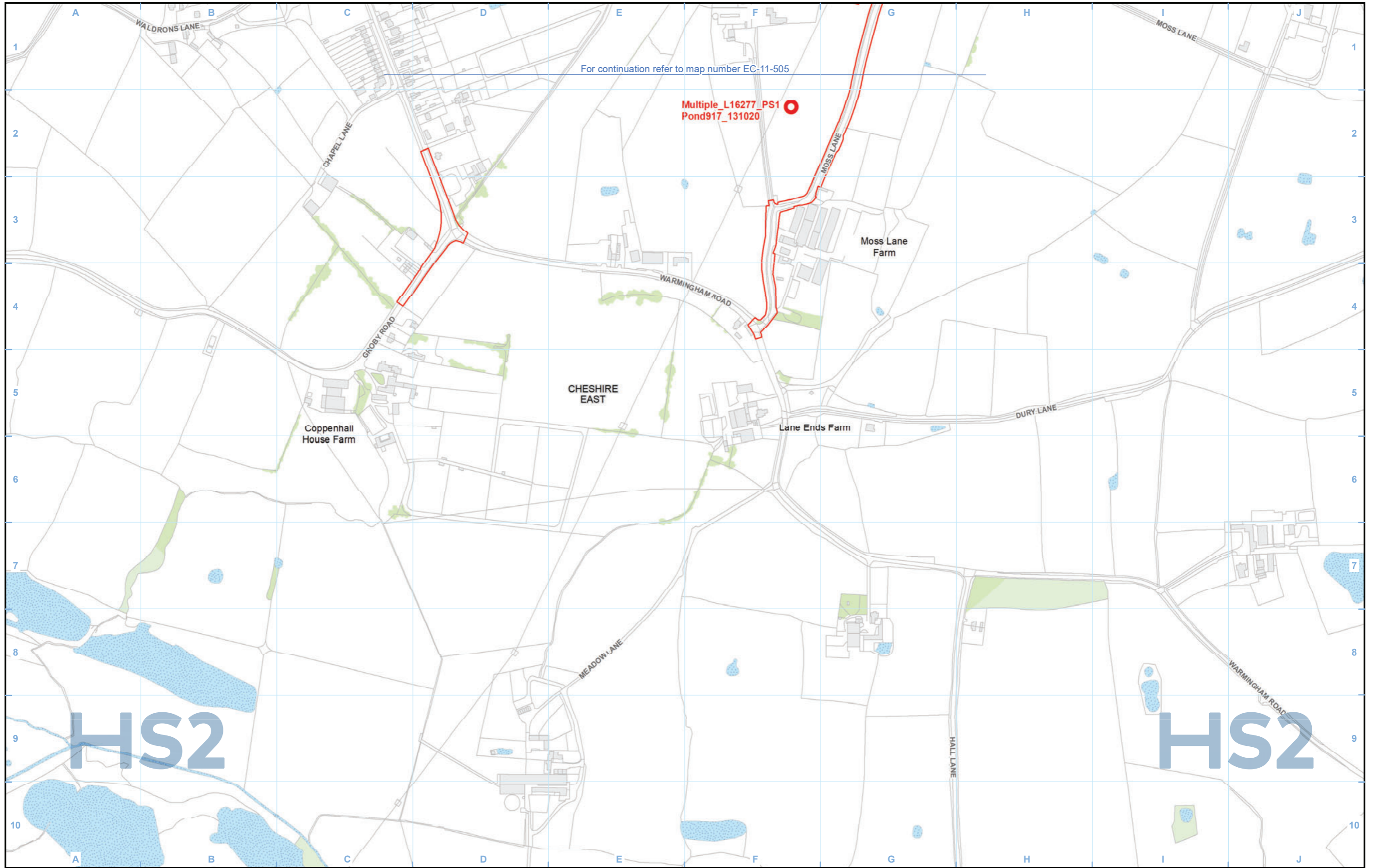
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Metres

Date: 03/09/21



For continuation refer to map number EC-11-505

Multiple L16277\_PS1  
Pond917\_131020

Legend		Watercourse	Woodland (verified by survey)	Otter:	White clawed crayfish:	Pond survey:	Fish:
	Route in tunnel						
	Route on surface						
	Depot, station, headhouse or portal building						
	Land potentially required during construction						
	Community area boundary						
	County boundary						
	District/Borough boundary						

Map Number	EC-11-505-R1
Map Name	Other Protected and Notable Species (1)
	Community Area MA01: Hough to Walley's Green

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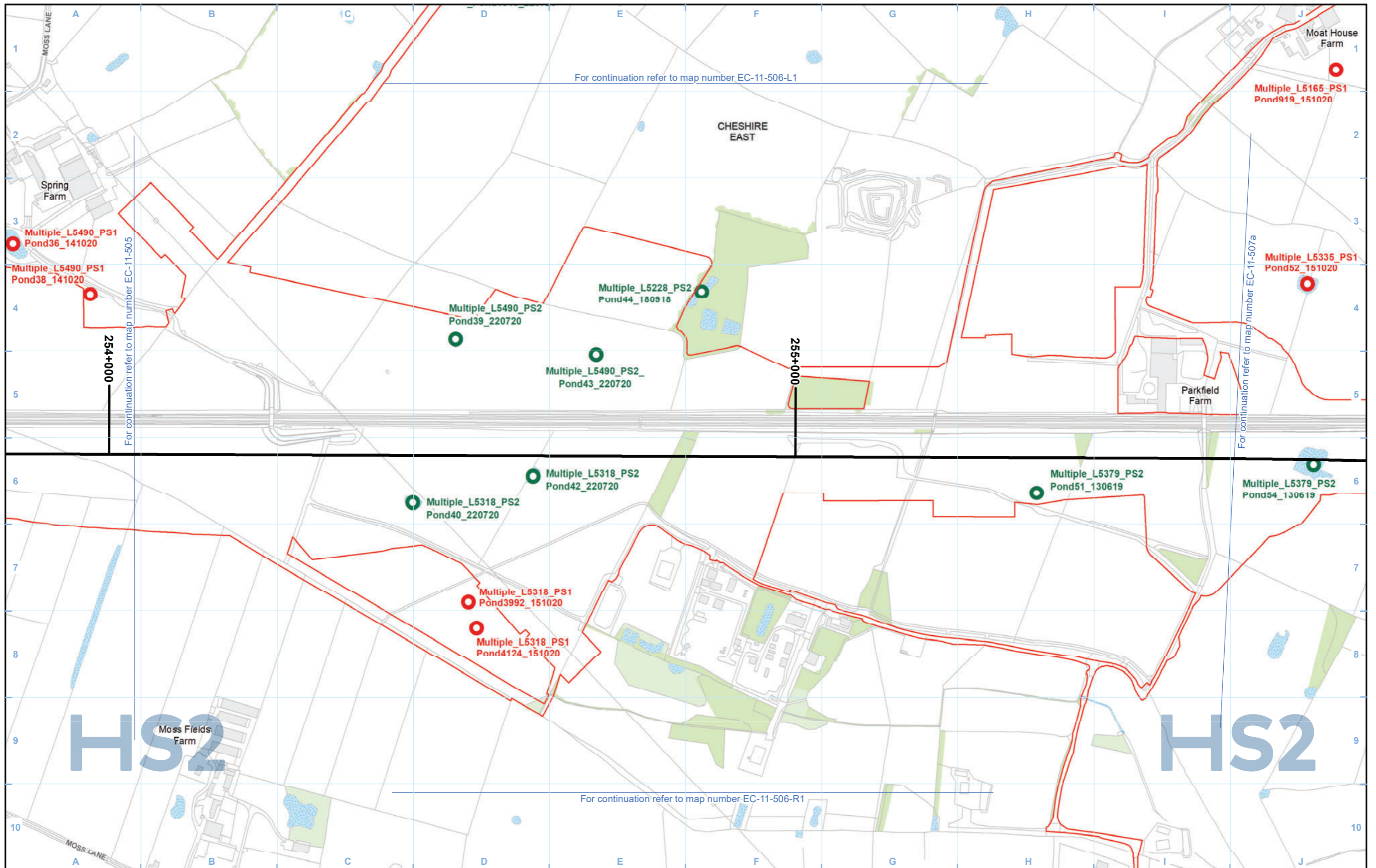
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**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>	<p><b>Otter:</b></p> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>	<p><b>White clawed crayfish:</b></p> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>	<p><b>Pond survey:</b></p> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>	<p><b>Fish:</b></p> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>
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Map Number	EC-11-506
Map Name	Other Protected and Notable Species (1)
Community Area MA01: Hough to Walley's Green	

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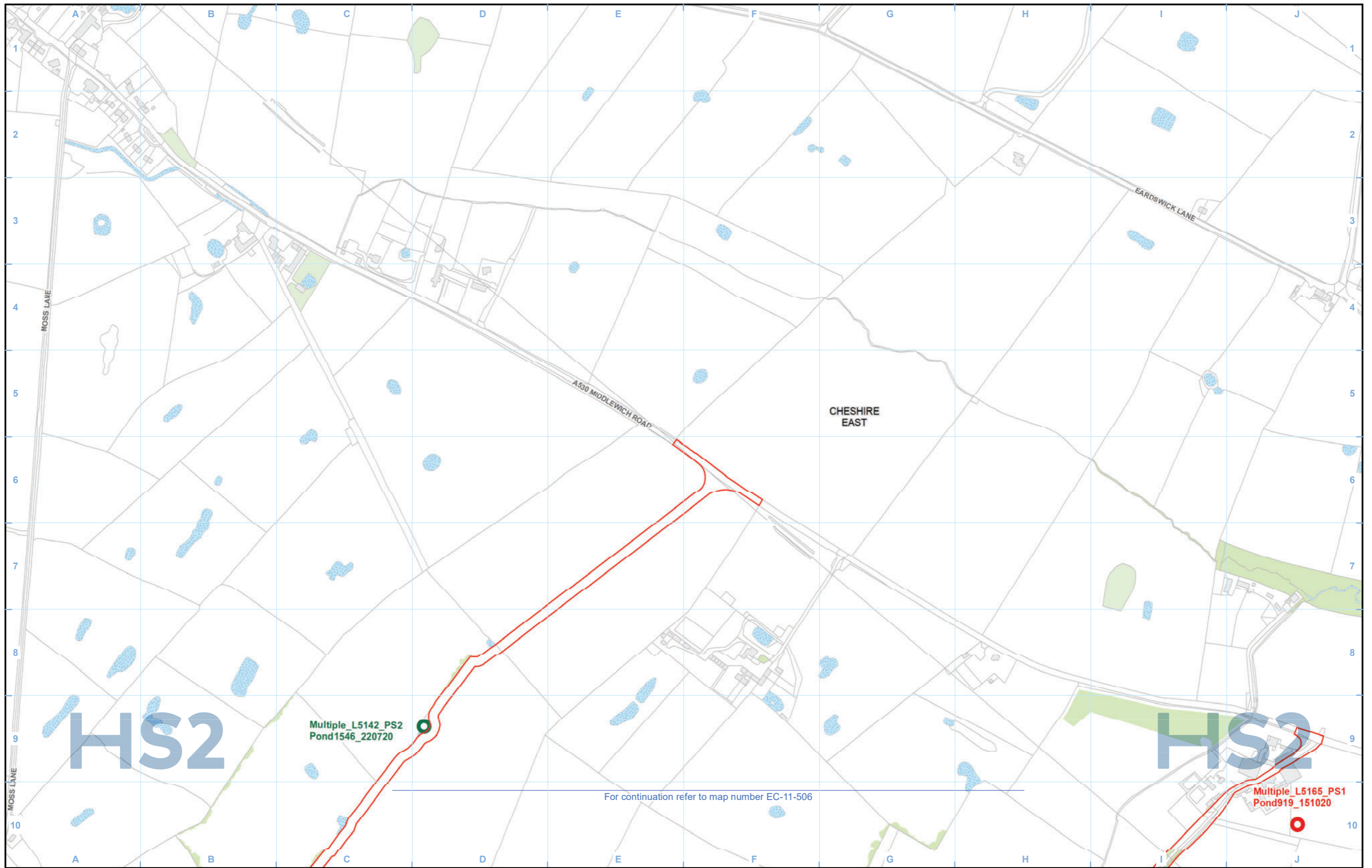
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-506-L1
Map Name	Other Protected and Notable Species (1)
Community Area MA01: Hough to Walley's Green	

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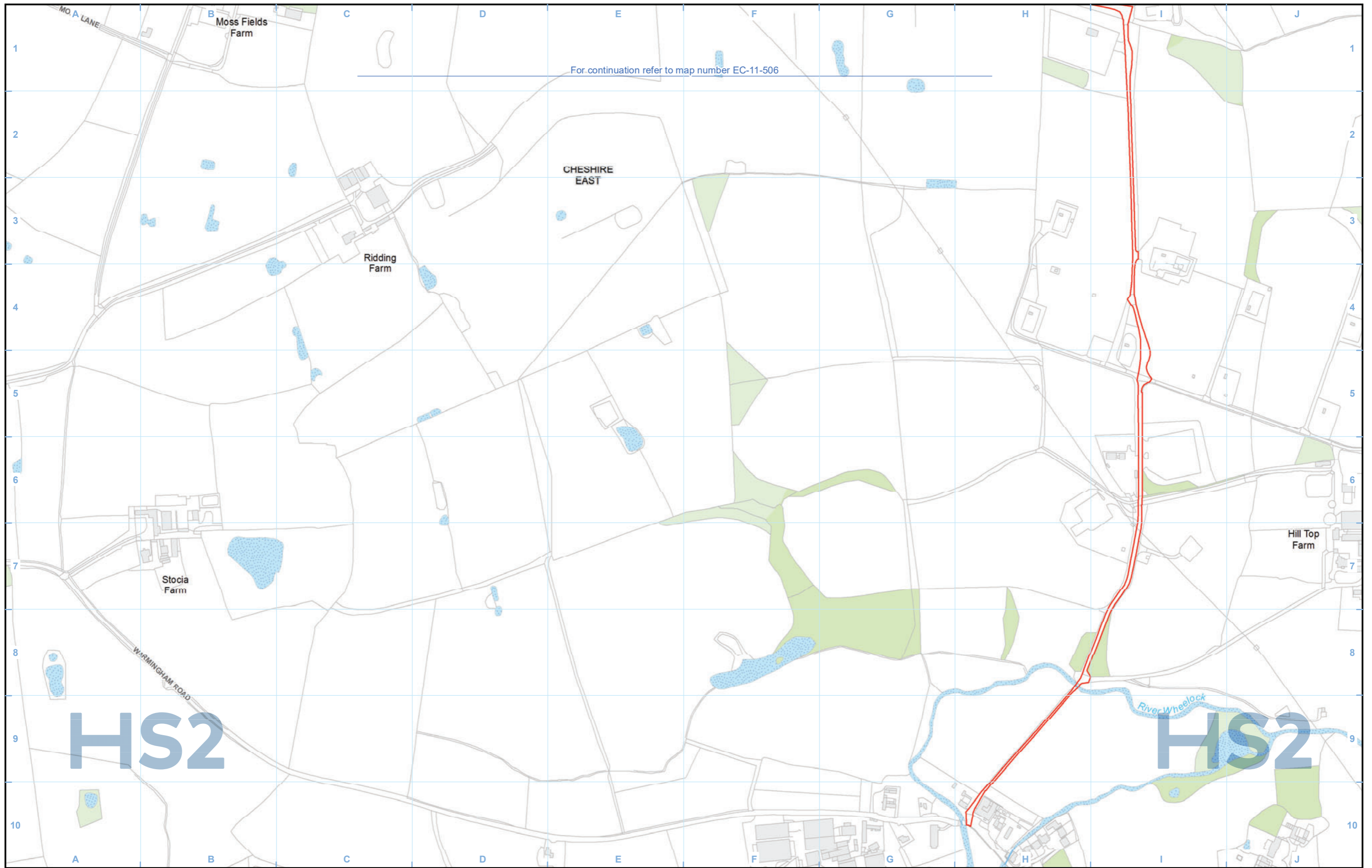
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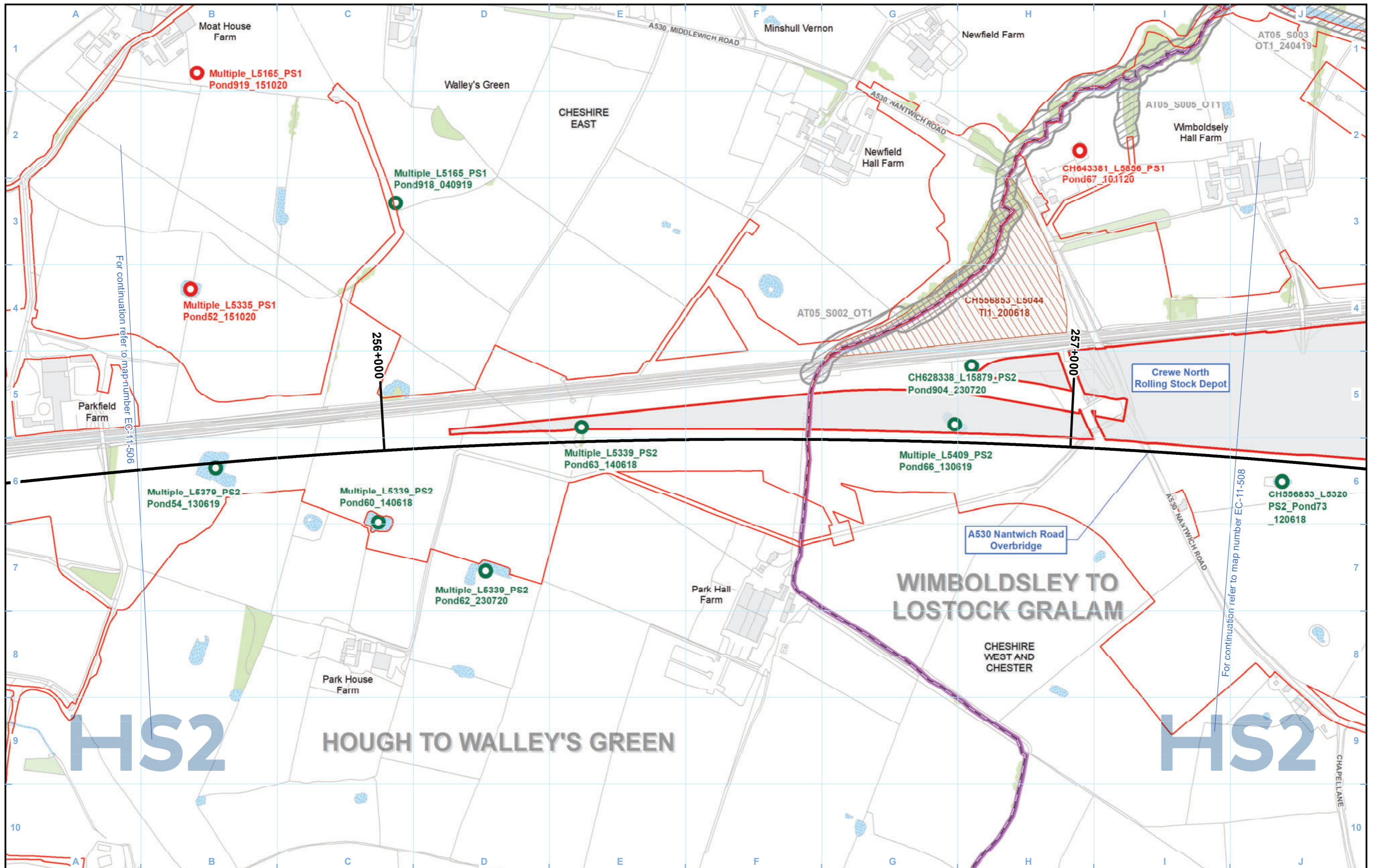


For continuation refer to map number EC-11-506

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<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Woodland (verified by survey)		<b>Otter:</b> Active otter holt Potential otter holt Suitable habitat for otter		<b>White clawed crayfish:</b> Manual search and/or trapping conducted and presence confirmed Manual search and/or trapping conducted and assumed absent Site identified as potentially suitable but no access available		<b>Pond survey:</b> Pond survey - national pond survey Pond survey - PSYM Pond survey - rapid assessment method		<b>Fish:</b> Fish survey location Terrestrial Invertebrate Terrestrial invertebrate survey extent	
<b>Map Number</b> EC-11-506-R1						<b>Map Name</b> Other Protected and Notable Species (1)					
<b>Community Area MA01:</b> Hough to Walley's Green						<b>Scale at A3:</b> 1:5,000 0 50 100 150 200 Metres					
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**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

**Map Number** EC-11-507a

**Map Name** Other Protected and Notable Species (1)

Community Area MA01:  
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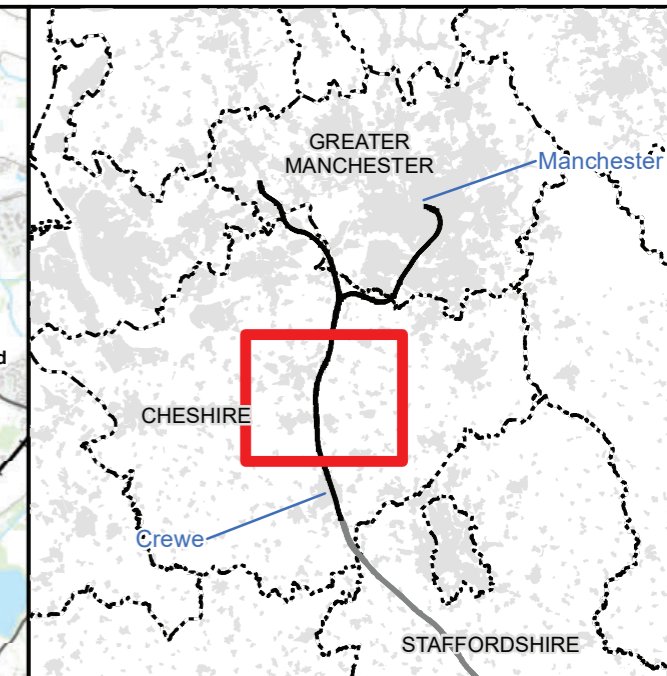
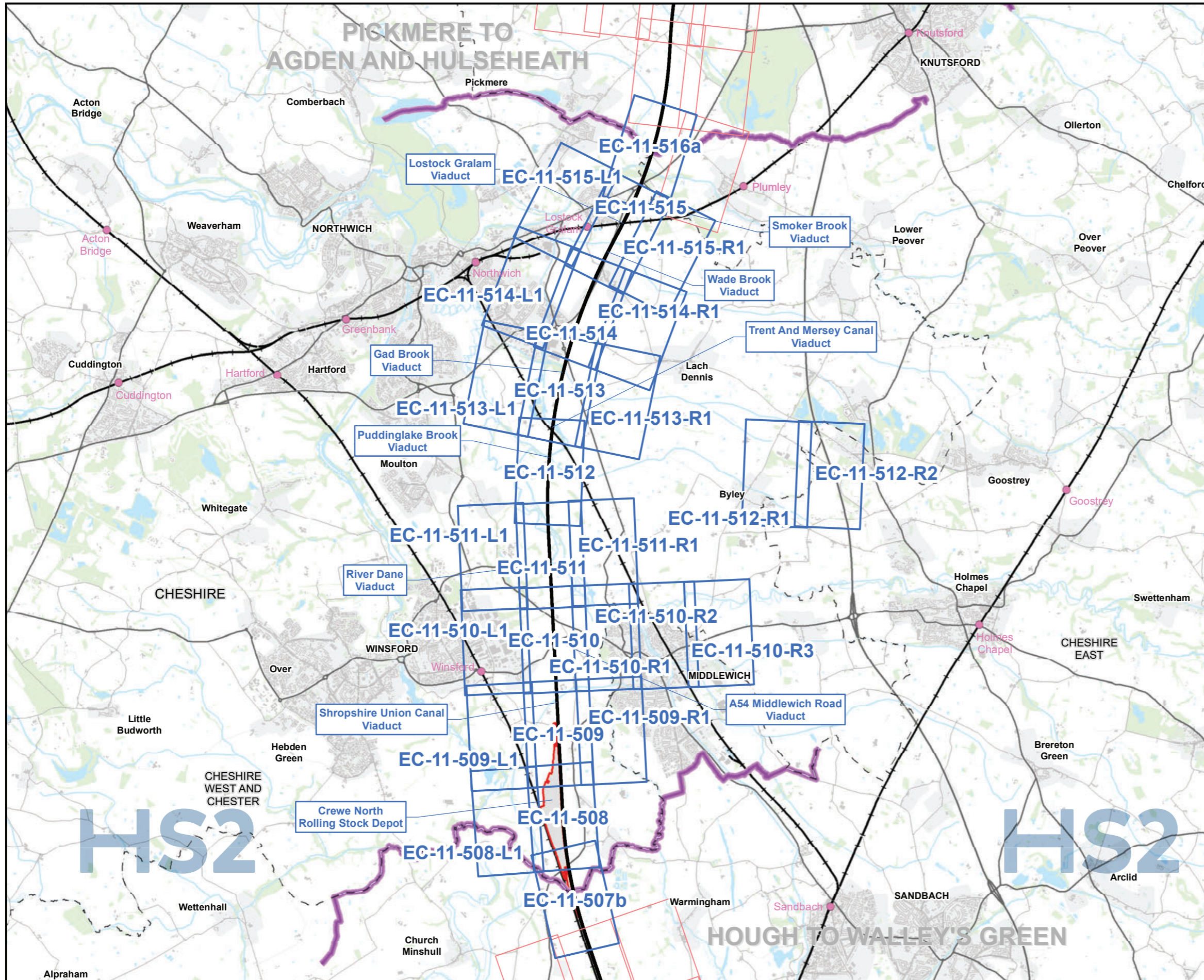
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**Map Series Information:**  
 This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

Main Map Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	Existing railway station
	County boundary
	District/Borough boundary
	Map sheets included in this community area
	Map sheets not included in this community area

Map Number	EC-11-INDEX-MA02
Map Name	Index Map of: Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gramam

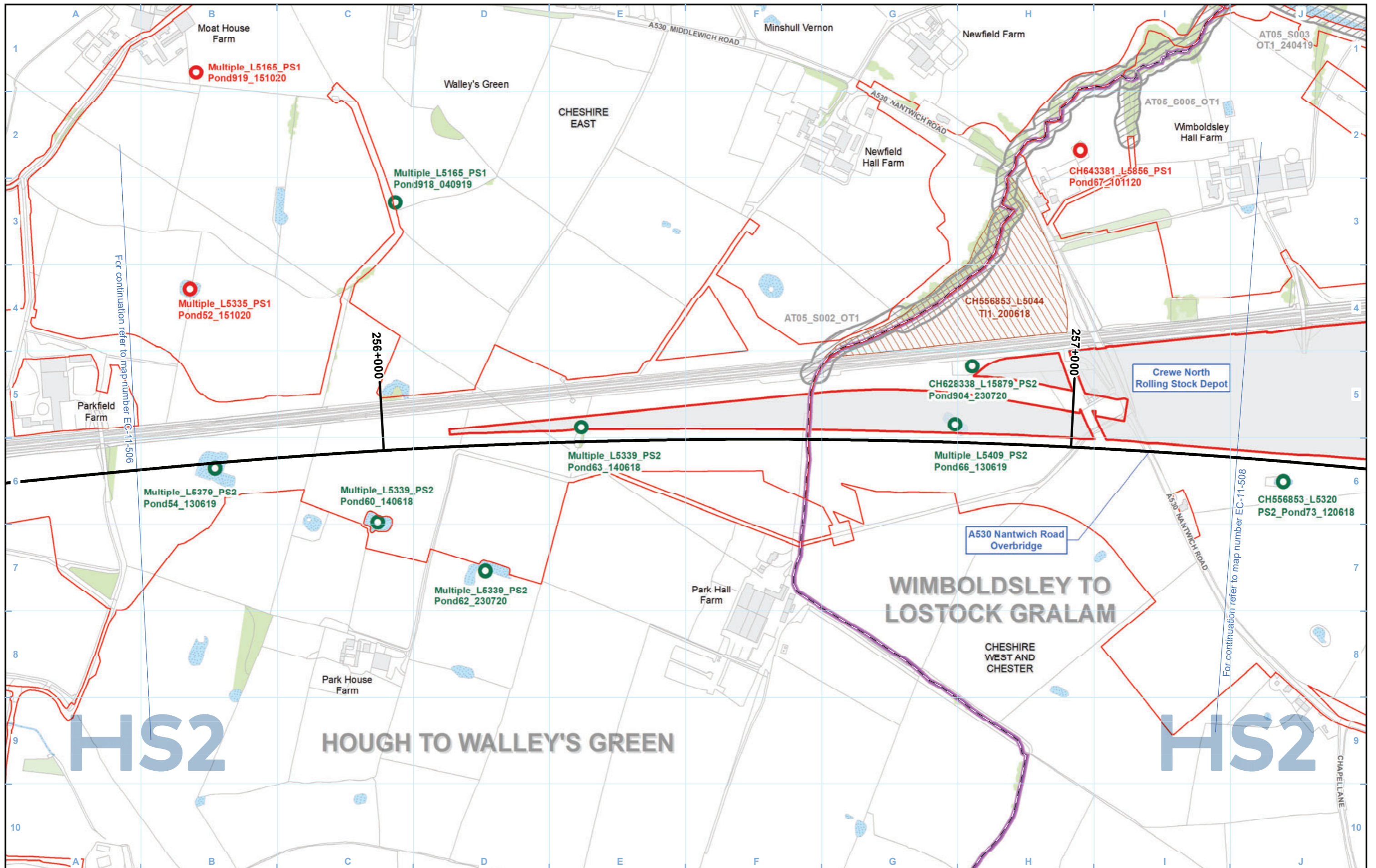
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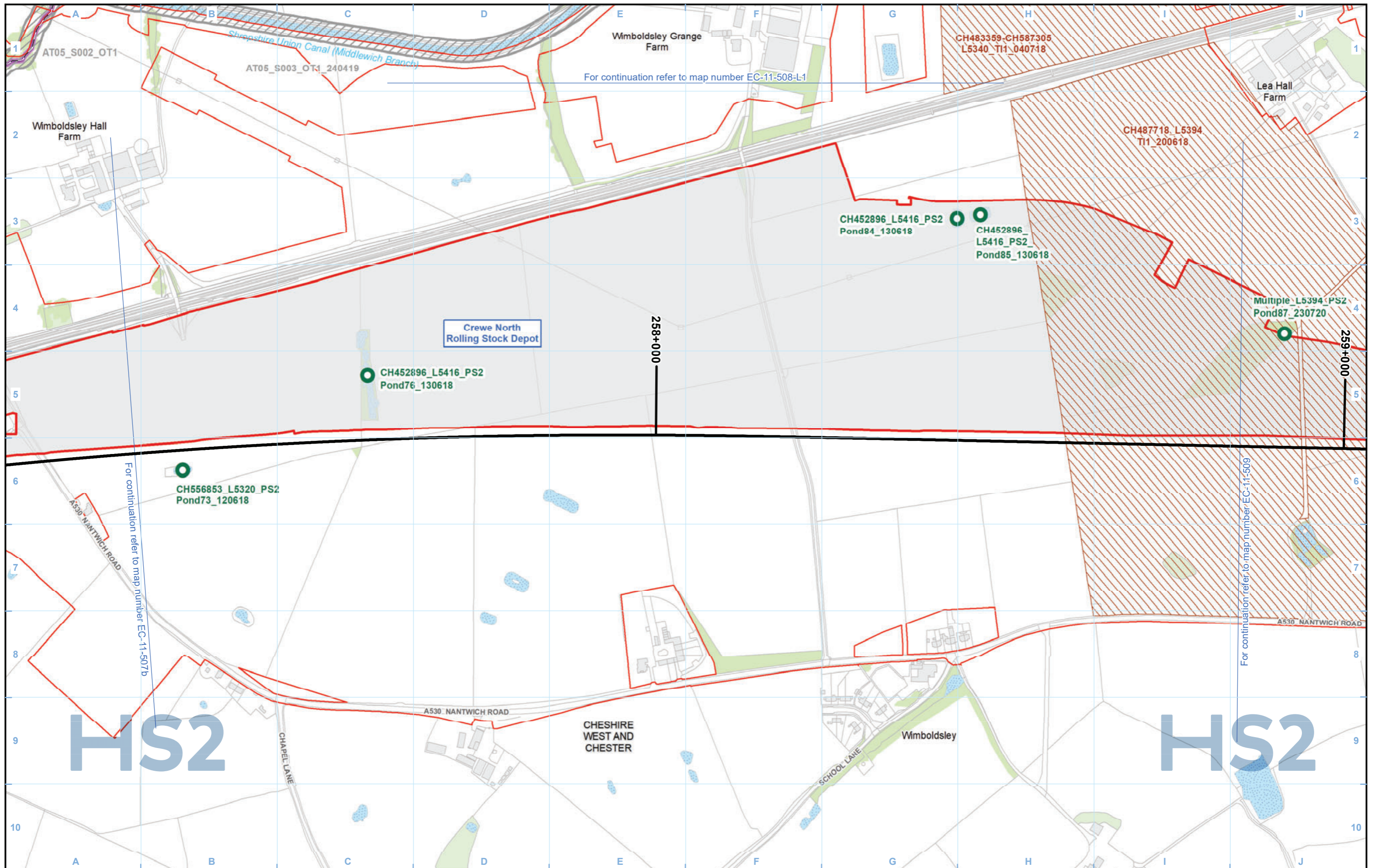
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<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> <li><b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul> </li> <li><b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul> </li> <li><b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul> </li> <li><b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b> <ul style="list-style-type: none"> <li> Terrestrial invertebrate survey extent</li> </ul> </li> </ul> </li> </ul>		Map Number: EC-11-507b Map Name: Other Protected and Notable Species (1) Community Area MA02: Wimboldsley to Lostock Gralam	 Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190 Doc Number: 2DE01-MWJ-EV-MAP-M000-001384-P01 Date: 22/10/21	 Scale at A3: 1:5,000 
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Legend	
	Watercourse
	Woodland (verified by survey)
	<b>Otter:</b>
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	<b>White clawed crayfish:</b>
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	<b>Pond survey:</b>
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	<b>Fish:</b>
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-508
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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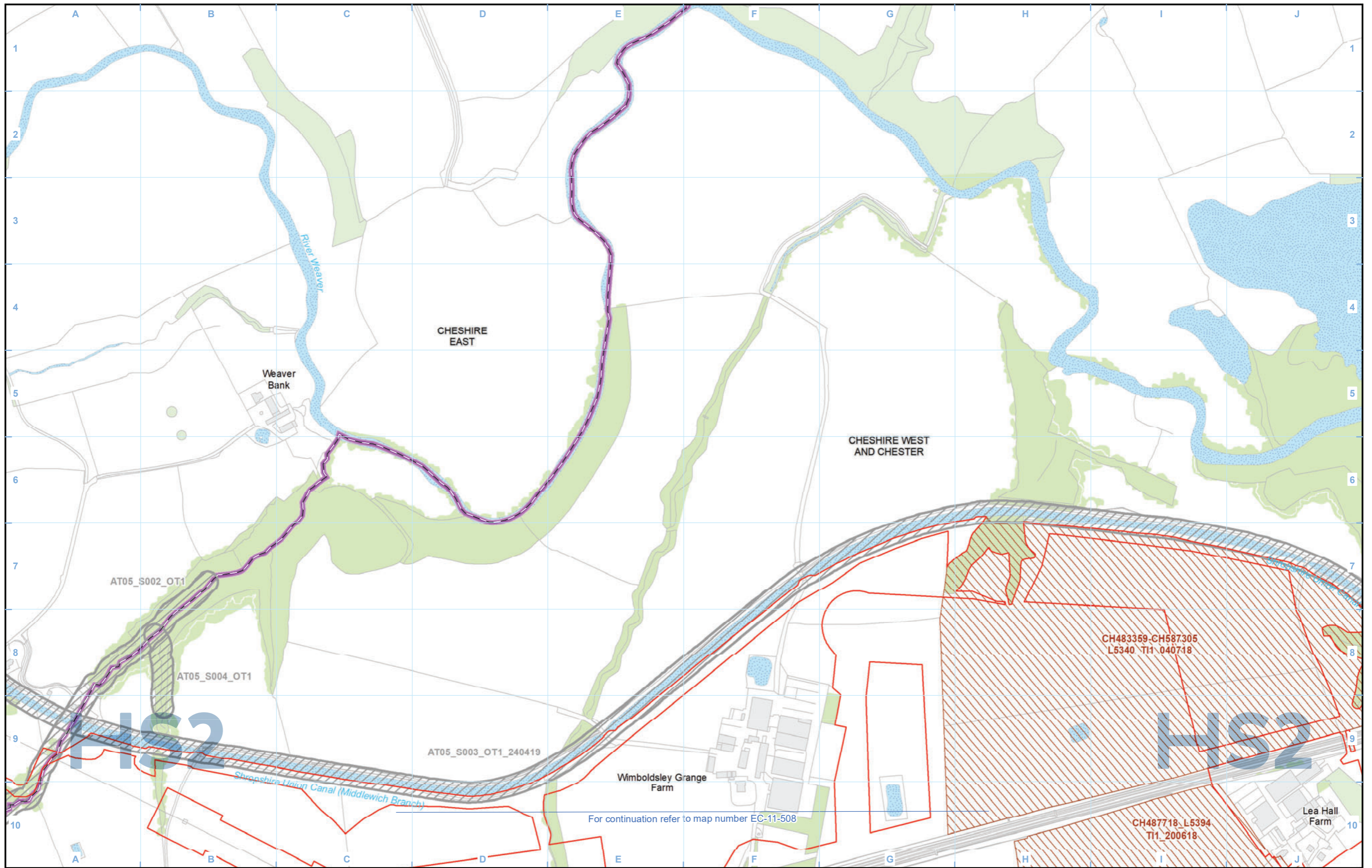
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number: EC-11-508-L1

Map Name: Other Protected and Notable Species (1)

Community Area MA02: Wimboldsley to Lostock Gralam

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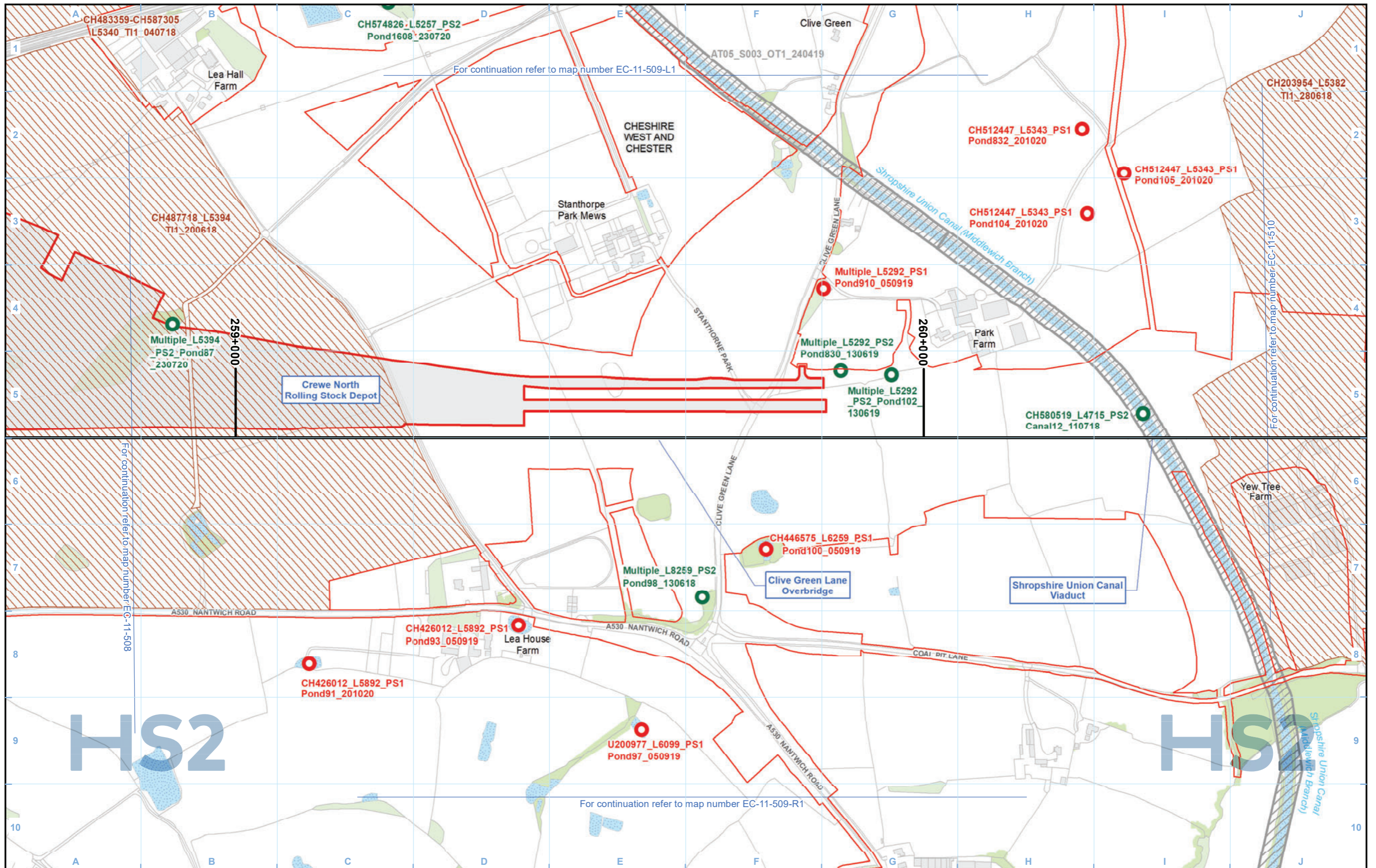
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Date: 22/10/21

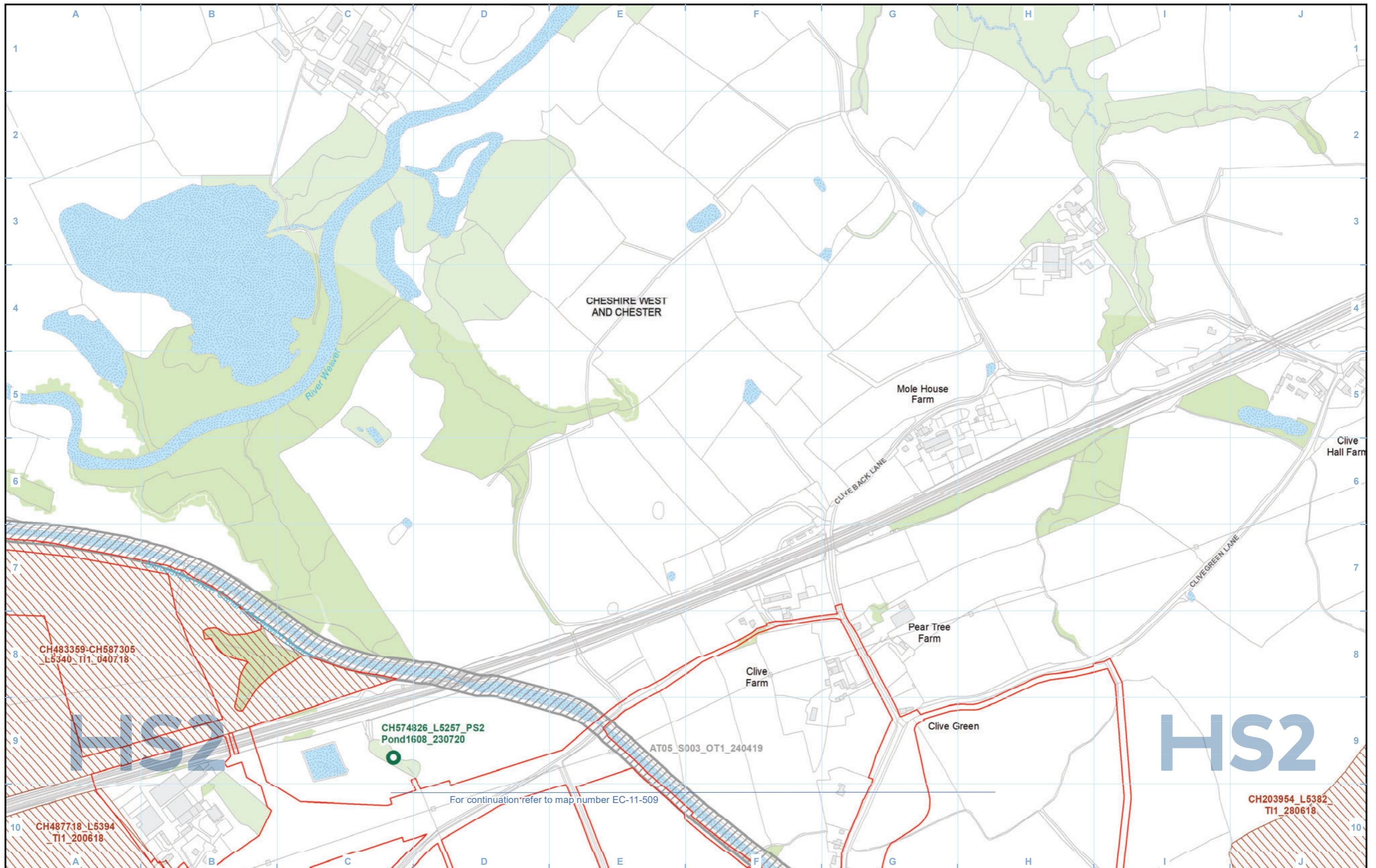
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Metres

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<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otterholt</li> <li>Potential otterholt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-509		<b>Map Name</b> Other Protected and Notable Species (1)				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<small>© Crown copyright and database rights 2020 OS 100049190</small>			
<b>Scale at A3: 1:5,000</b> 		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-001386-P01		<b>Date:</b> 22/10/21		<b>Map Number</b> EC-11-509		<b>Map Name</b> Other Protected and Notable Species (1)		<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam	



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Otter: Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial invertebrate survey extent

Map Number	EC-11-509-L1
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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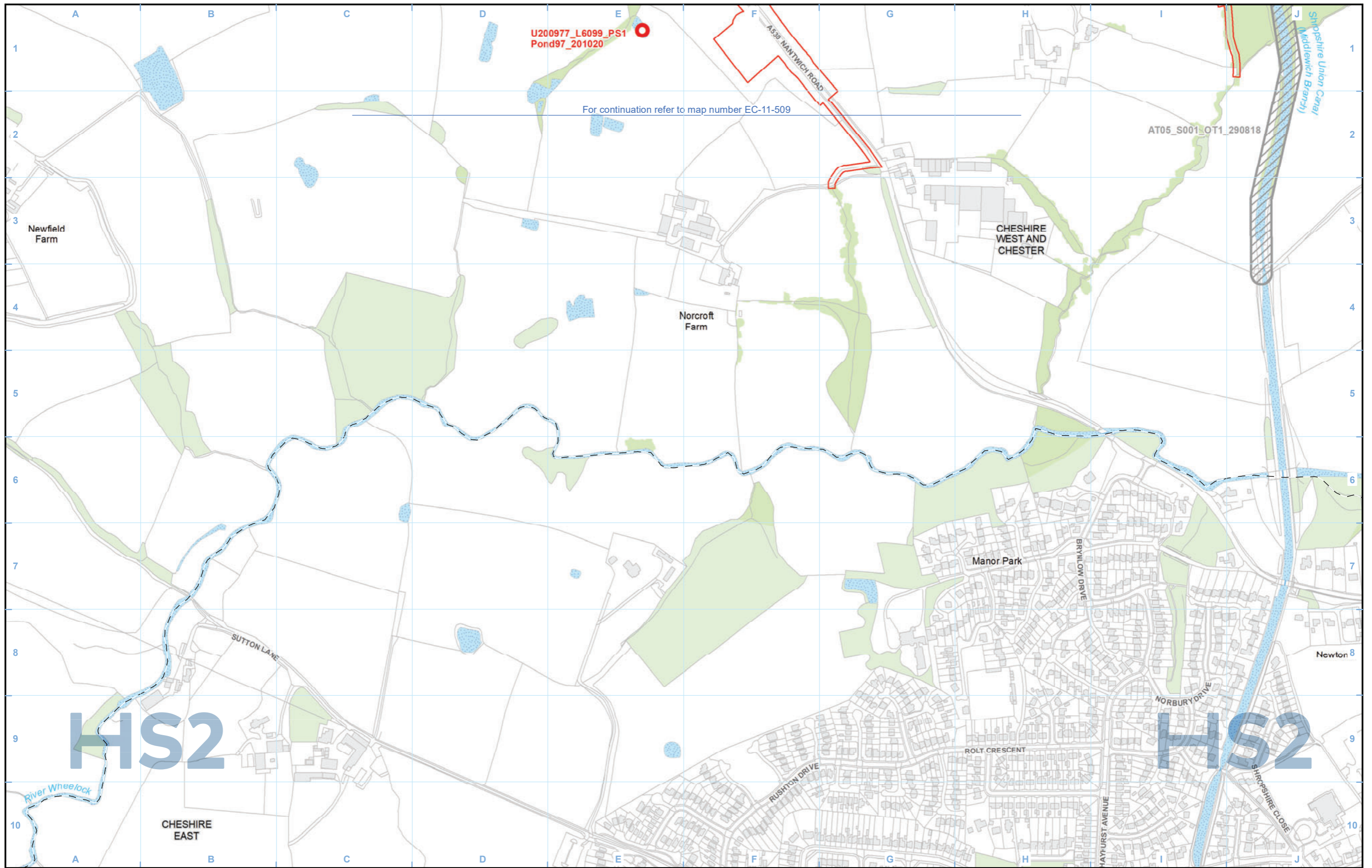
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Metres

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For continuation refer to map number EC-11-509

U200977\_L6099\_PS1  
Pond97\_201020

AT05\_S001\_OT1\_290818

HS2

HS2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number: EC-11-509-R1

Map Name: Other Protected and Notable Species (1)

Community Area MA02: Wimboldsley to Lostock Gralam

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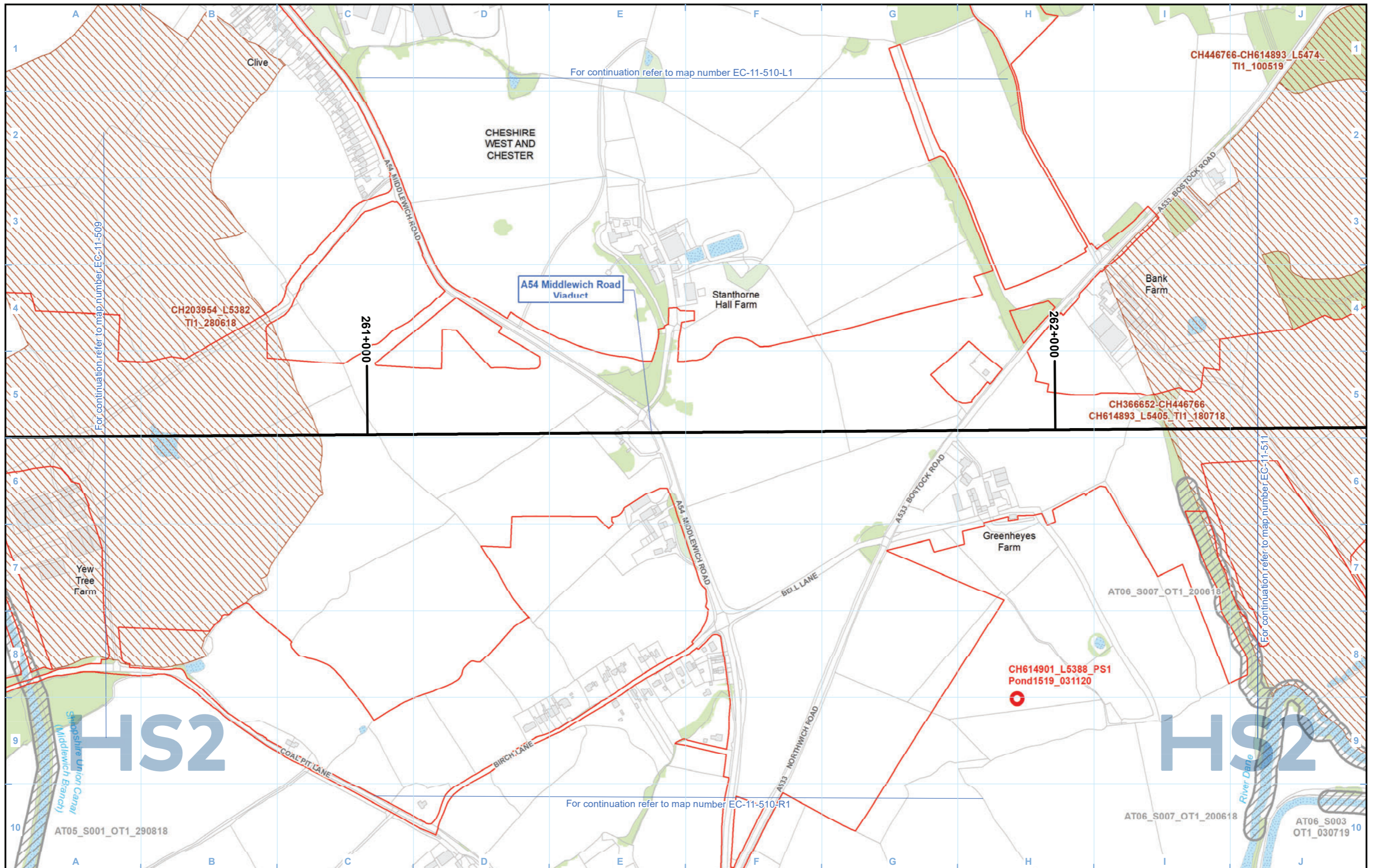
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003402-P01

Date: 22/10/21

Scale at A3: 1:5,000

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For continuation refer to map number EC-11-510-L1

For continuation refer to map number EC-11-509

For continuation refer to map number EC-11-511

For continuation refer to map number EC-11-510-R1

Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-510
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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For continuation refer to map number EC-11-510

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number **EC-11-510-L1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA02:  
Wimboldsley to Lostock Gralam

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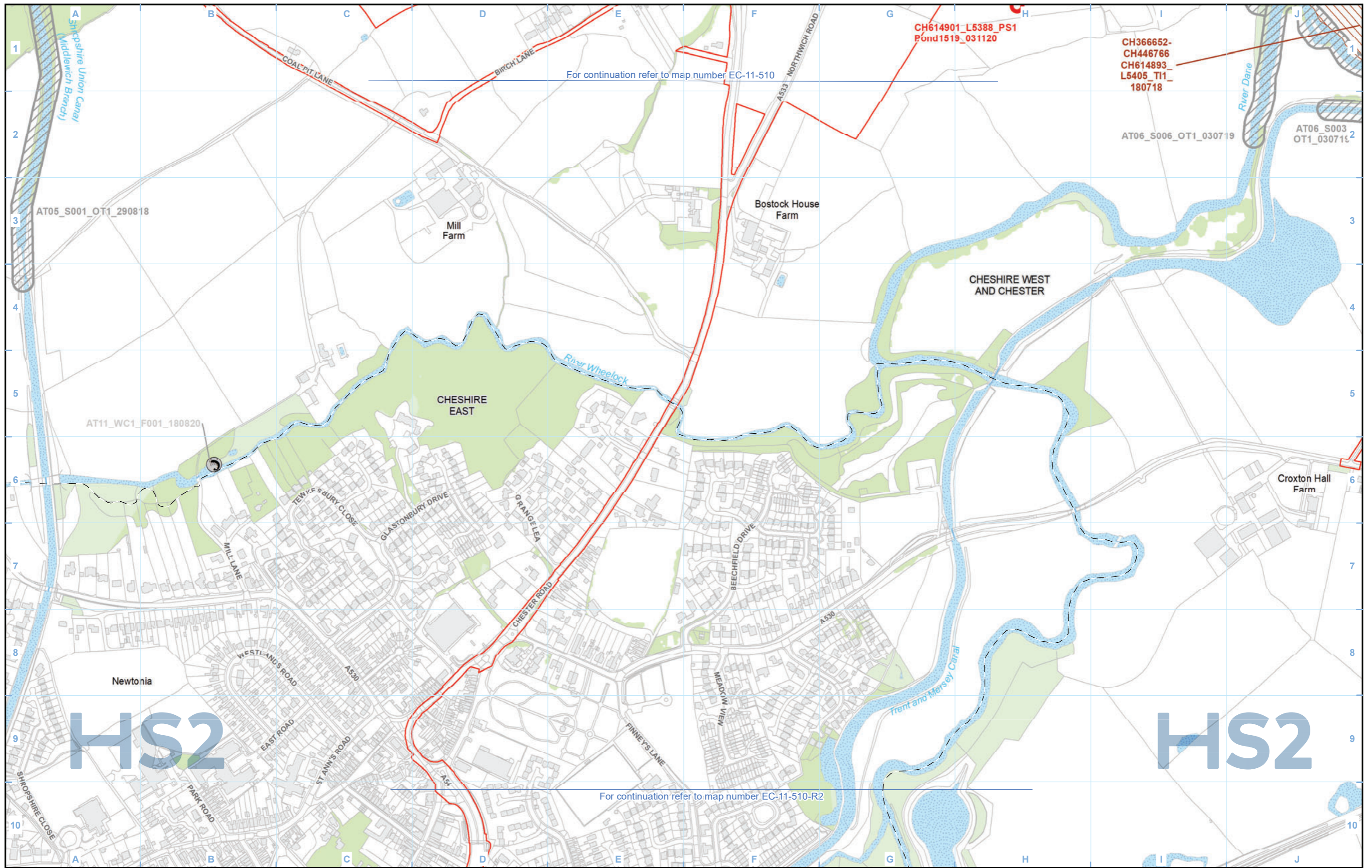
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Date: 22/10/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



For continuation refer to map number EC-11-510

For continuation refer to map number EC-11-510-R2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number **EC-11-510-R1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA02:  
Wimboldsley to Lostock Gralam

**HS2**

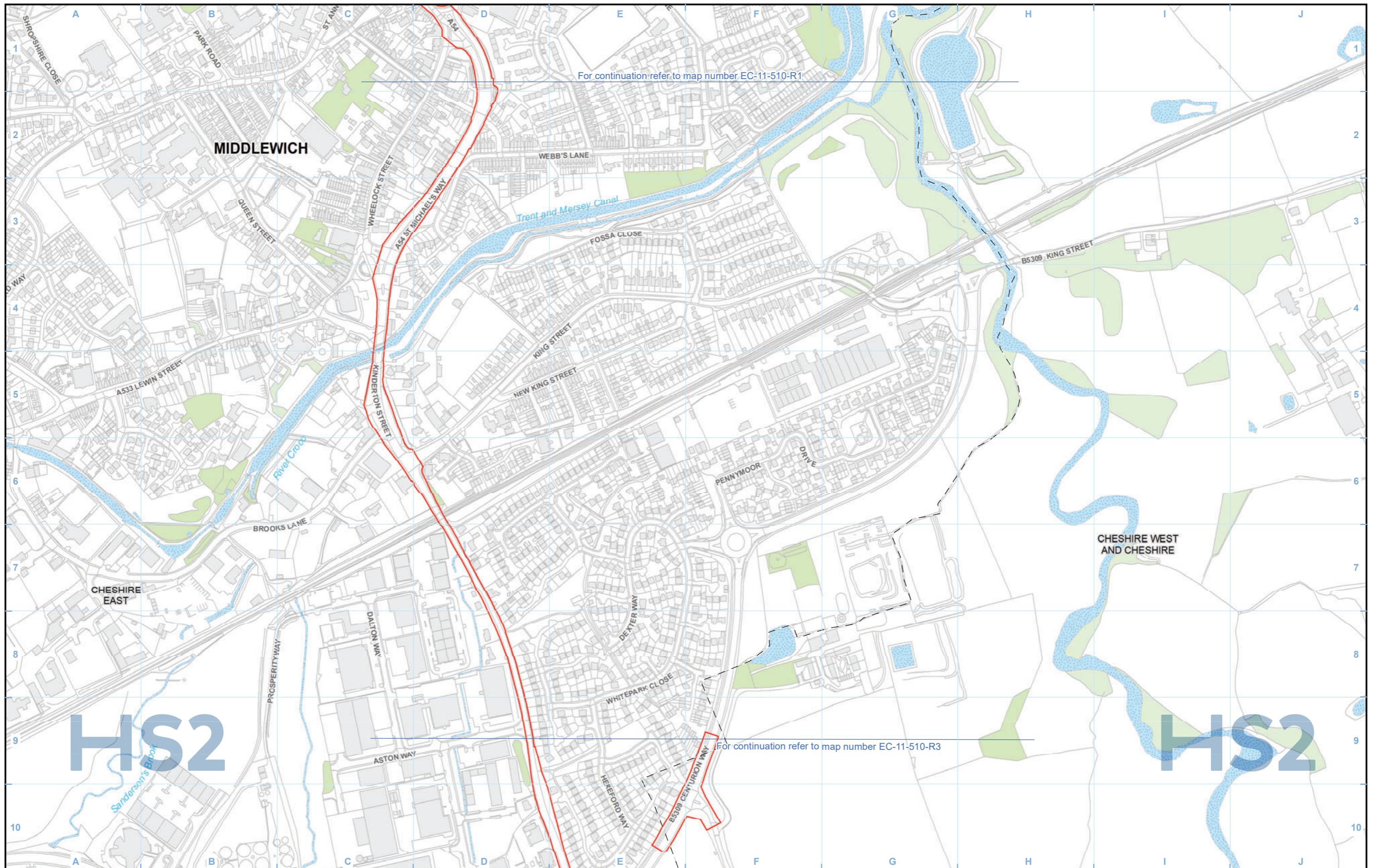
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Date: 22/10/21

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For continuation refer to map number EC-11-510-R1

For continuation refer to map number EC-11-510-R3

Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:					
	Route in tunnel		Watercourse		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location		Terrestrial invertebrate
	Route on surface		Woodland (verified by survey)		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate survey extent		
	Depot, station, headhouse or portal building				Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method				
	Land potentially required during construction												
	Community area boundary												
	County boundary												
	District/Borough boundary												

Map Number	EC-11-510-R2
Map Name	Other Protected and Notable Species (1)
Community Area MA02: Wimboldsley to Lostock Gralam	

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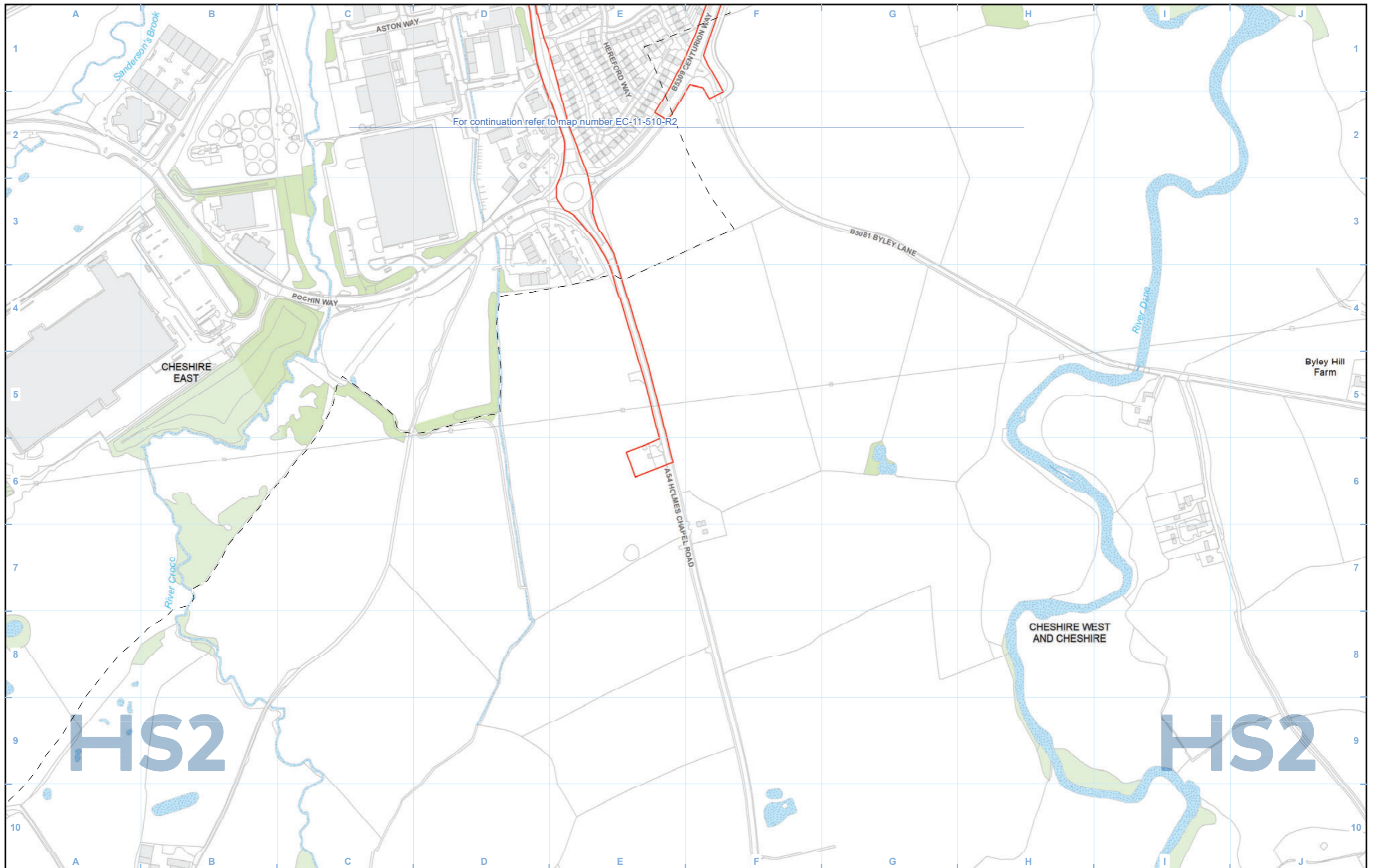
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Scale at A3: 1:5,000

Metres

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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
<b>Otter:</b>	
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
<b>White clawed crayfish:</b>	
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
<b>Pond survey:</b>	
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
<b>Fish:</b>	
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-510-R3
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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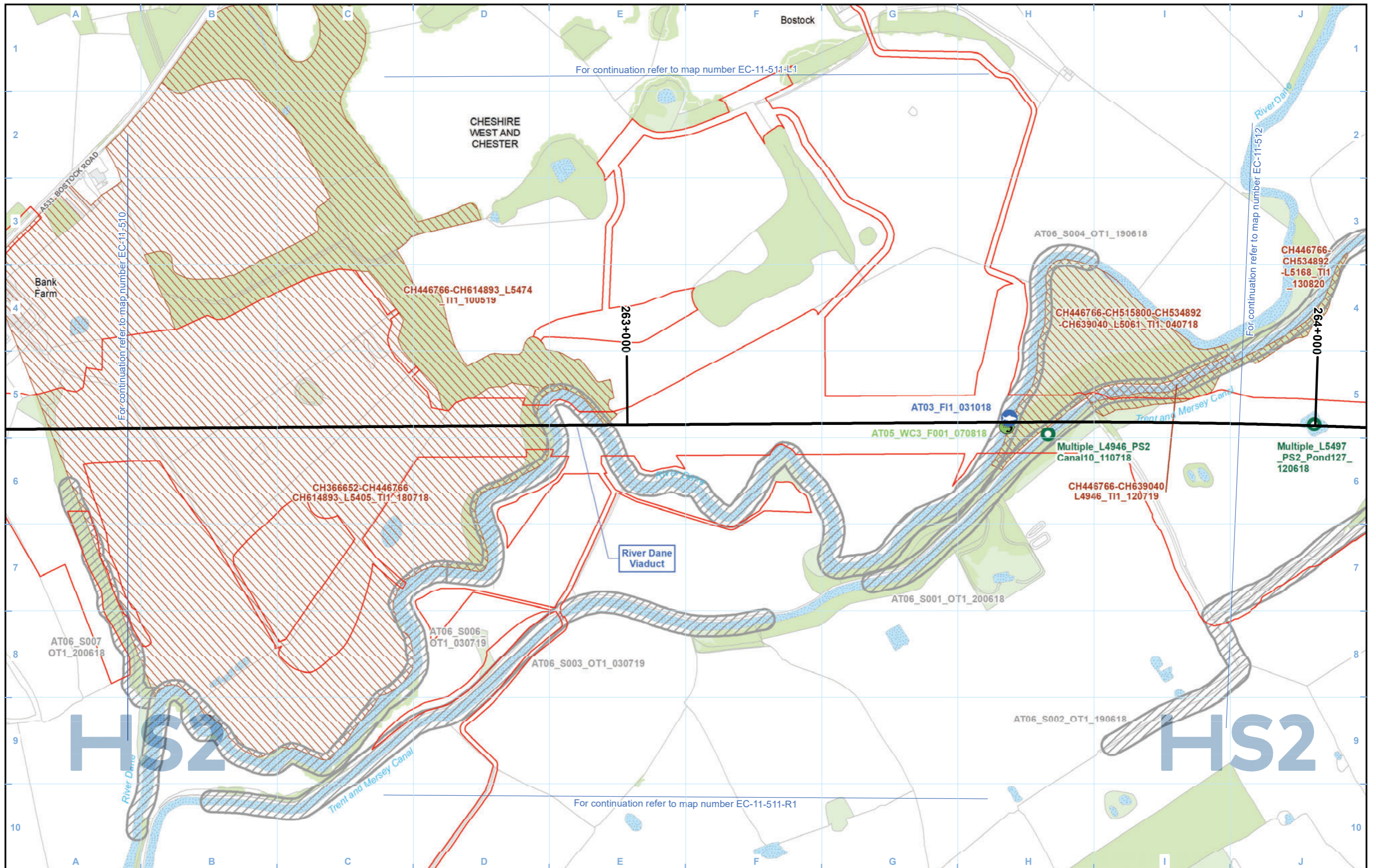
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Scale at A3: 1:5,000

Metres

Date: 22/10/21



Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-511
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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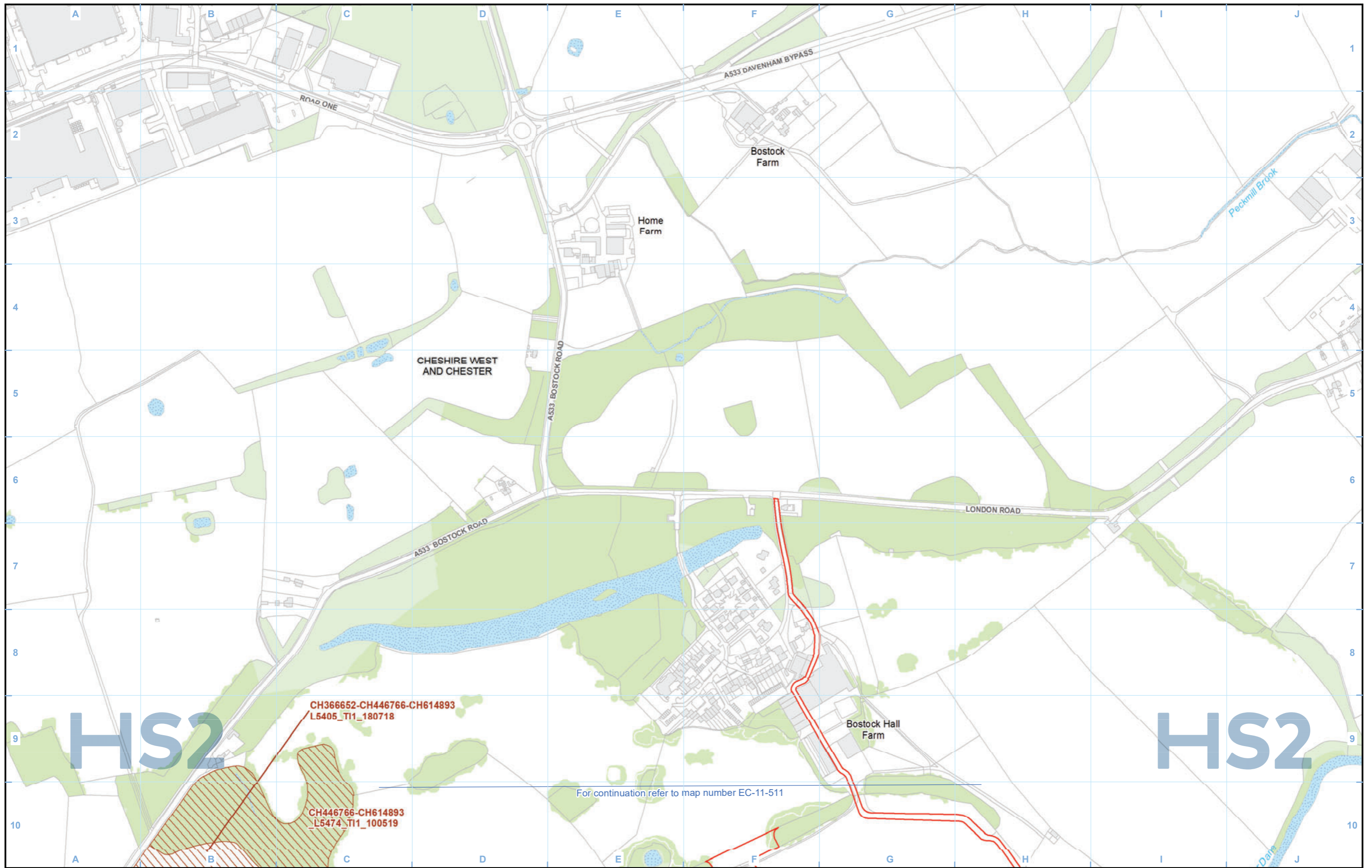
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001388-P01

Scale at A3: 1:5,000

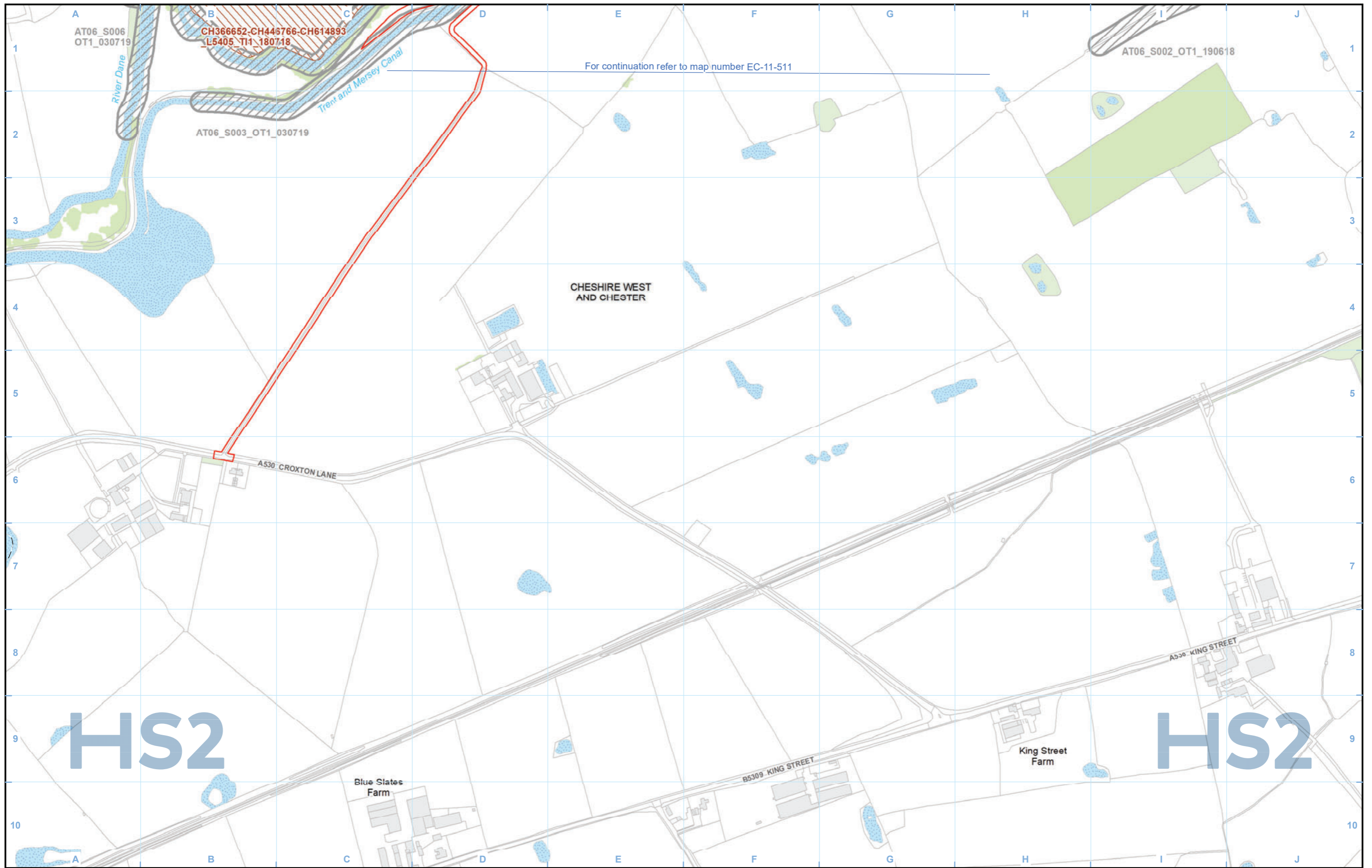
Metres

Date: 22/10/21



For continuation refer to map number EC-11-511

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li> Terrestrial Invertebrate</li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-511-L1						<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>			
<b>Map Name</b> Other Protected and Notable Species (1)				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<small>Scale at A3: 1:5,000</small>			
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam				<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003406-P01</small>		<small>Date: 22/10/21</small>	



For continuation refer to map number EC-11-511

Legend		Watercourse	Woodland (verified by survey)	Otter:	White clawed crayfish:	Pond survey:	Fish:
	Route in tunnel						
	Route on surface						Terrestrial Invertebrate
	Depot, station, headhouse or portal building						
	Land potentially required during construction						
	Community area boundary						
	County boundary						
	District/Borough boundary						

Map Number	EC-11-511-R1
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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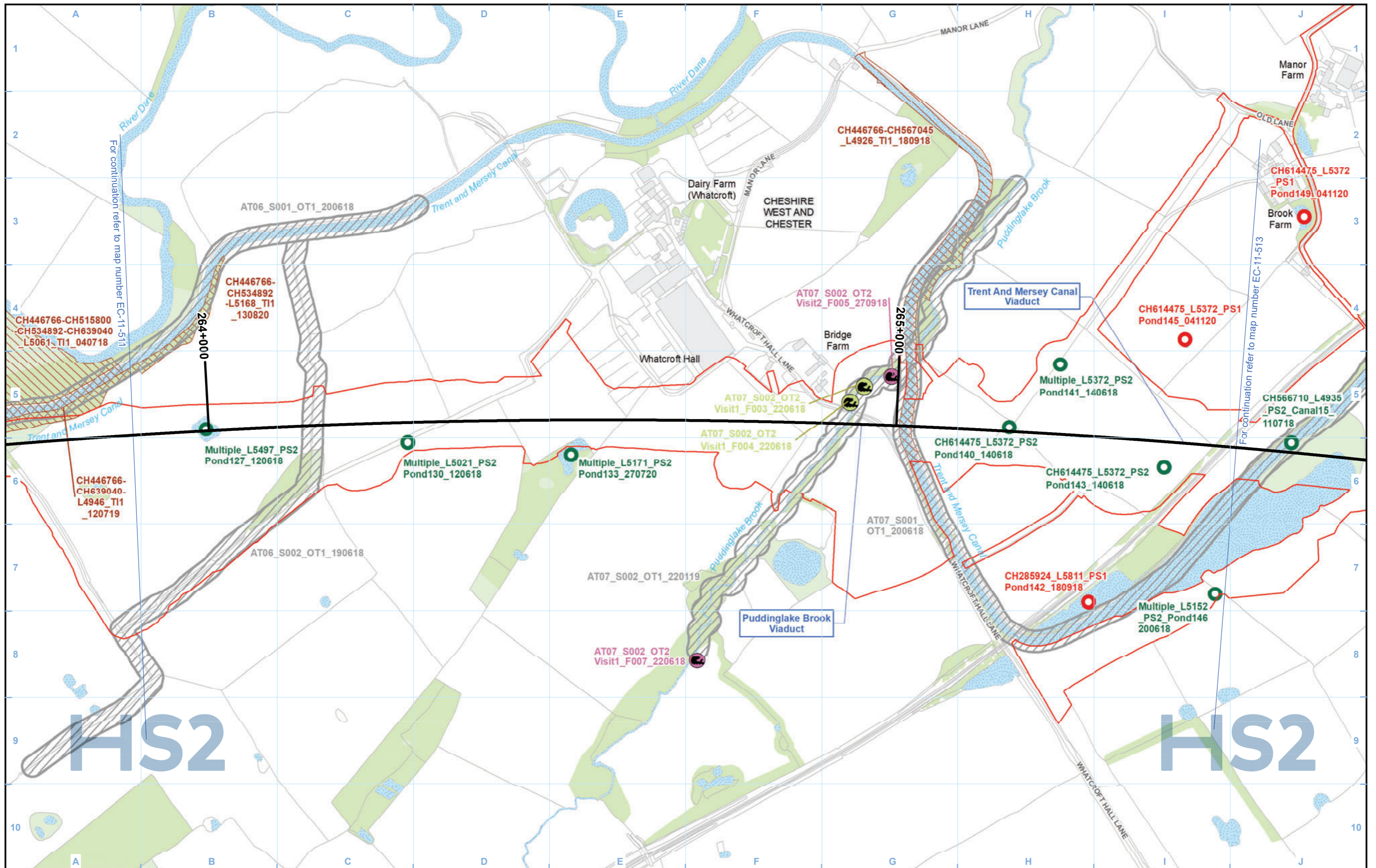
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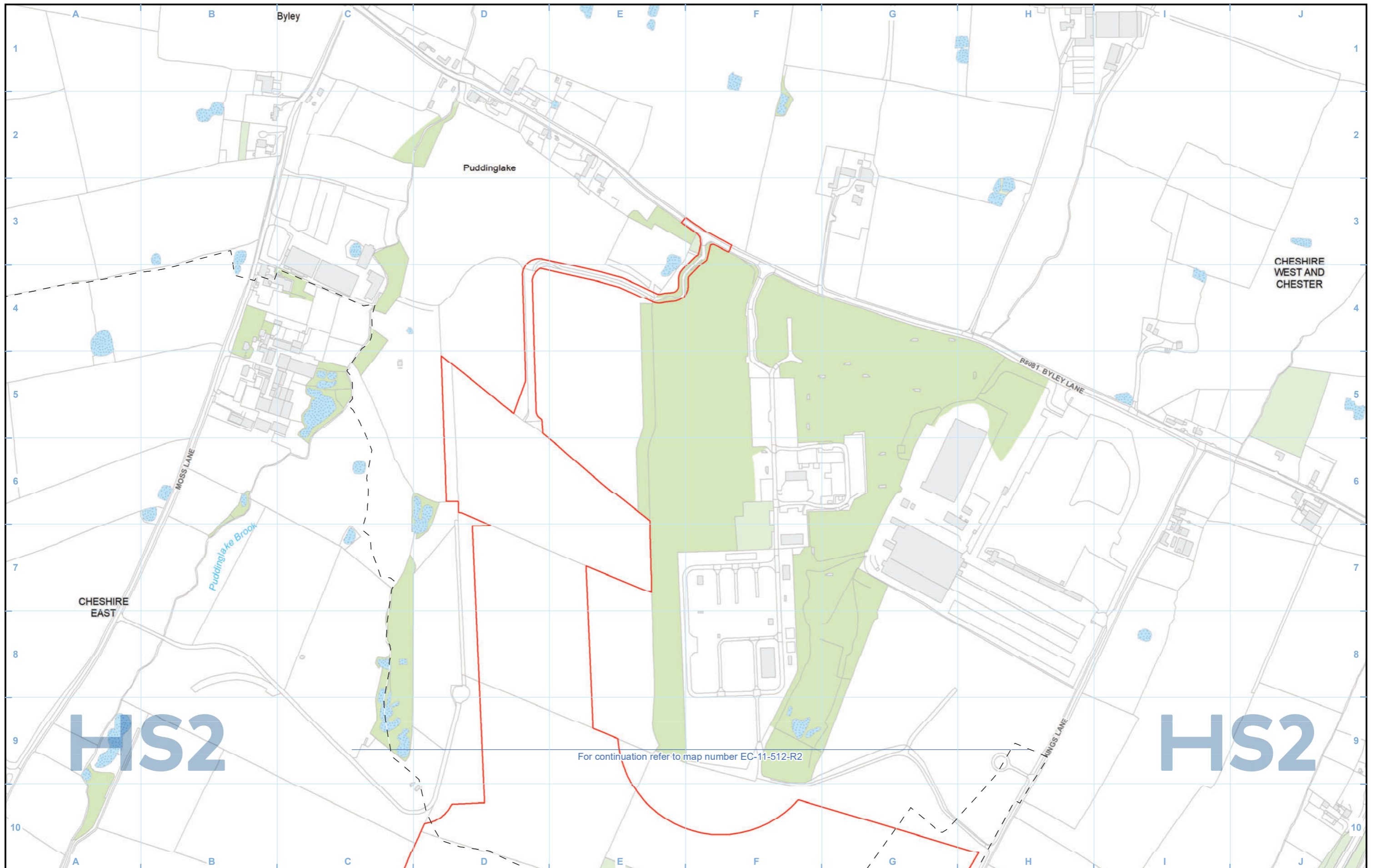
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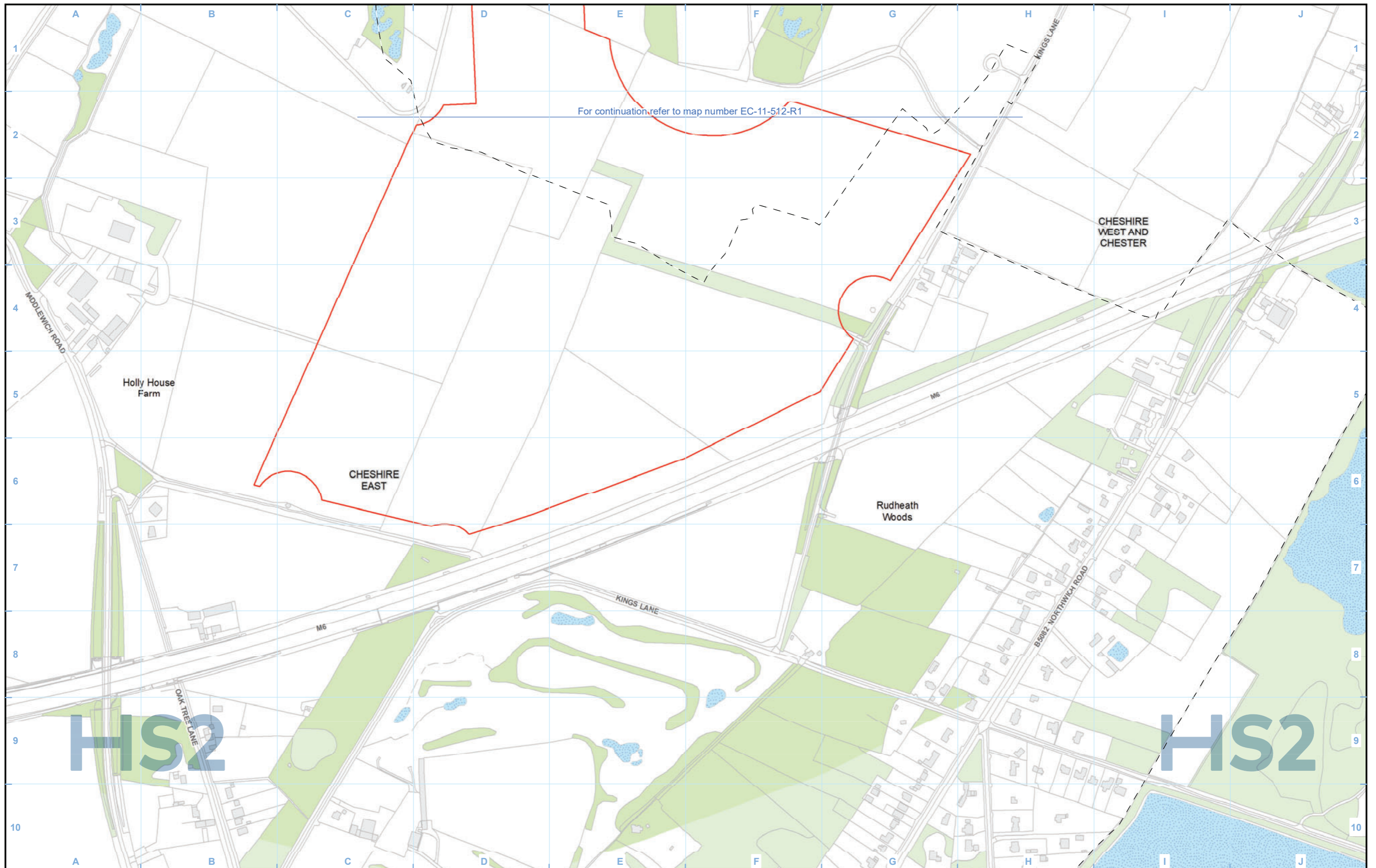


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<b>Map Number</b> EC-11-512		<b>Map Name</b> Other Protected and Notable Species (1)				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>			
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam		<b>Scale at A3:</b> 1:5,000 		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-001389-P01</small>		<small>Date: 22/10/21</small>			





<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-512-R1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<small>© Crown copyright and database rights 2020 OS 100049190</small>			
<b>Map Name</b> Other Protected and Notable Species (1)		<b>Scale at A3:</b> 1:5,000 		<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003408-P01</small>		<small>Date: 22/10/21</small>	
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam									



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
<b>Otter:</b>	
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
<b>White clawed crayfish:</b>	
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
<b>Pond survey:</b>	
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
<b>Fish:</b>	
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-512-R2
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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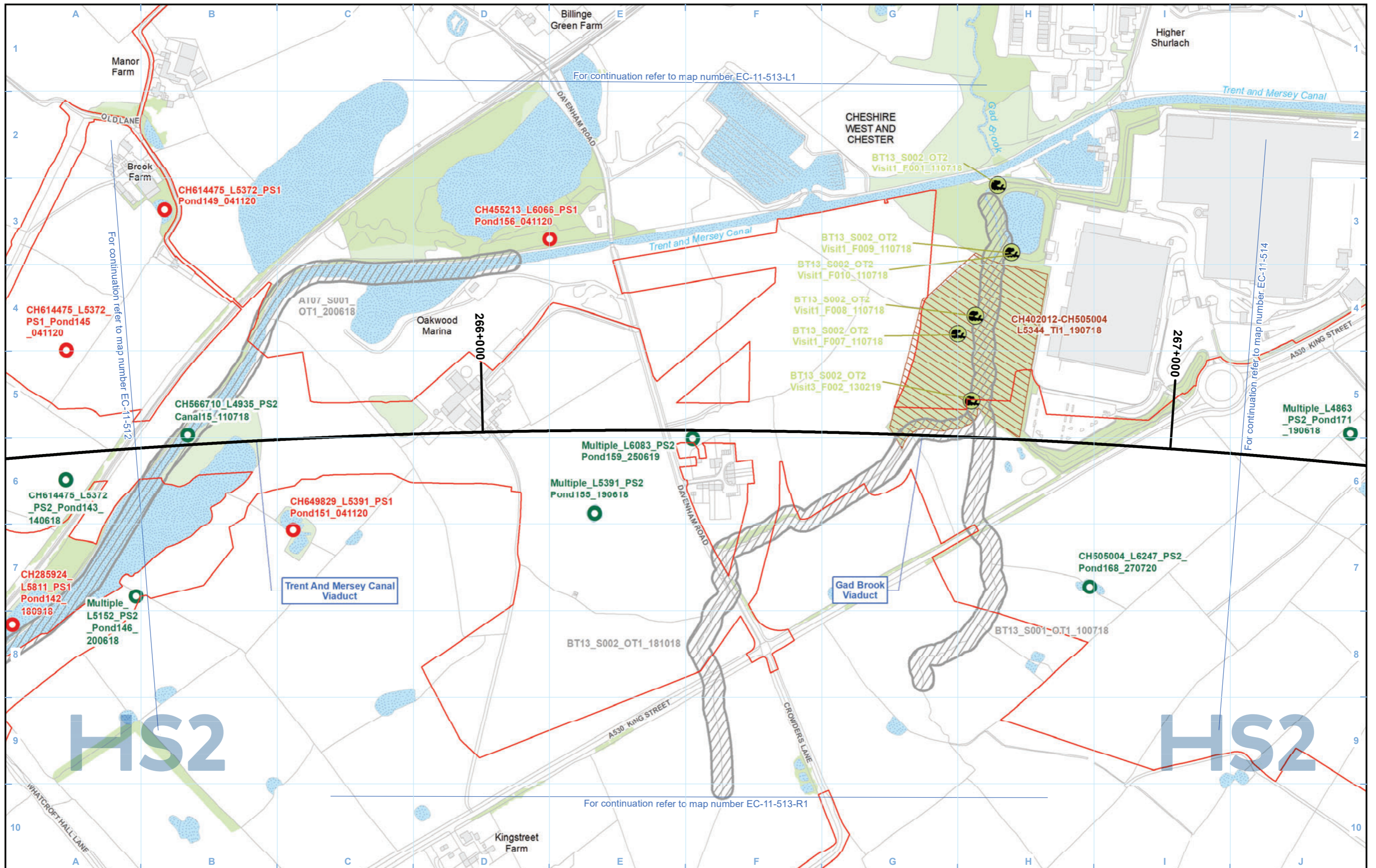
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Scale at A3: 1:5,000

Date: 22/10/21

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Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number: EC-11-513

Map Name: Other Protected and Notable Species (1)

Community Area MA02: Wimboldsley to Lostock Gralam

Scale at A3: 1:5,000

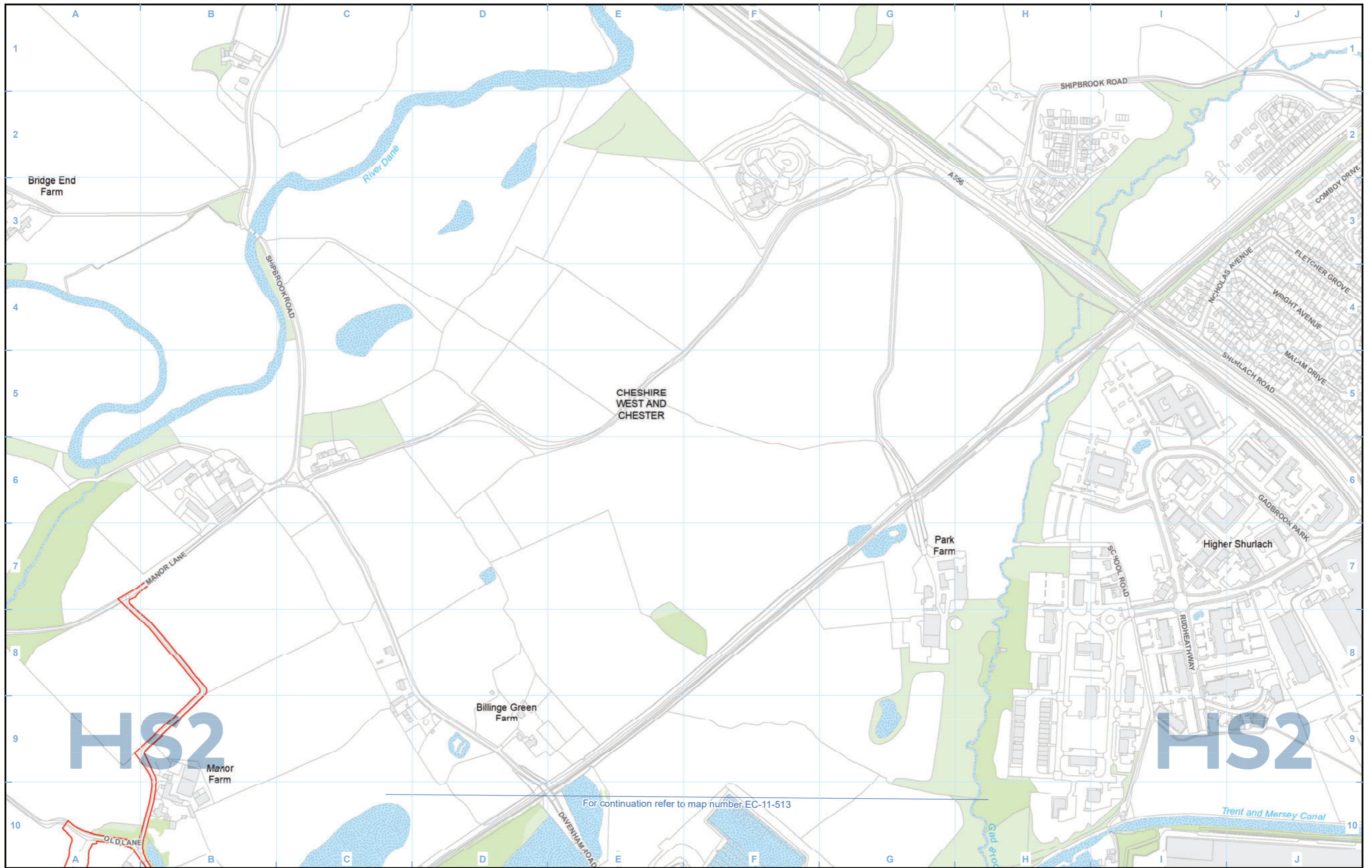
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For continuation refer to map number EC-11-513

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number **EC-11-513-L1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA02:  
Wimboldsley to Lostock Gralam

**HS2**

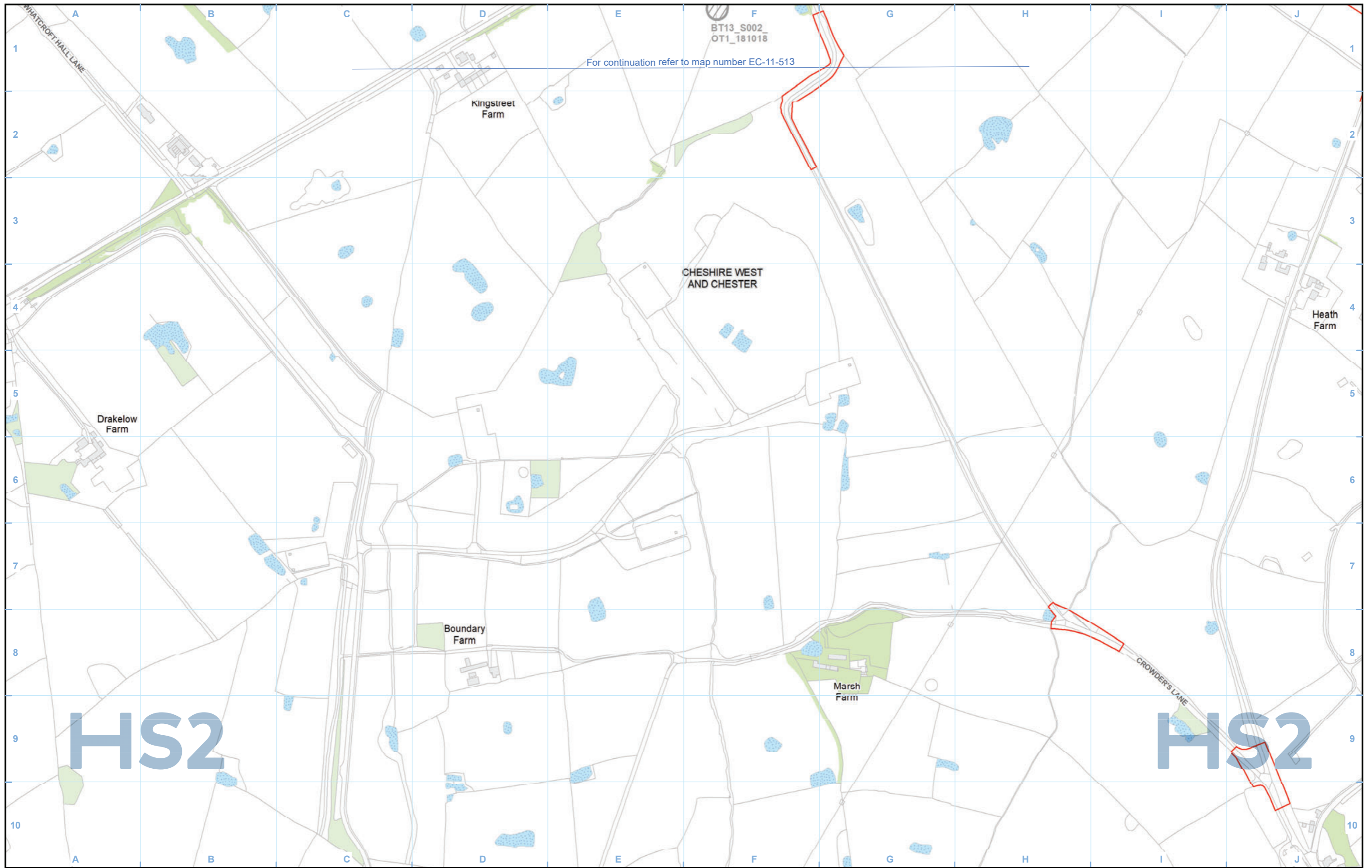
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Date: 22/10/21

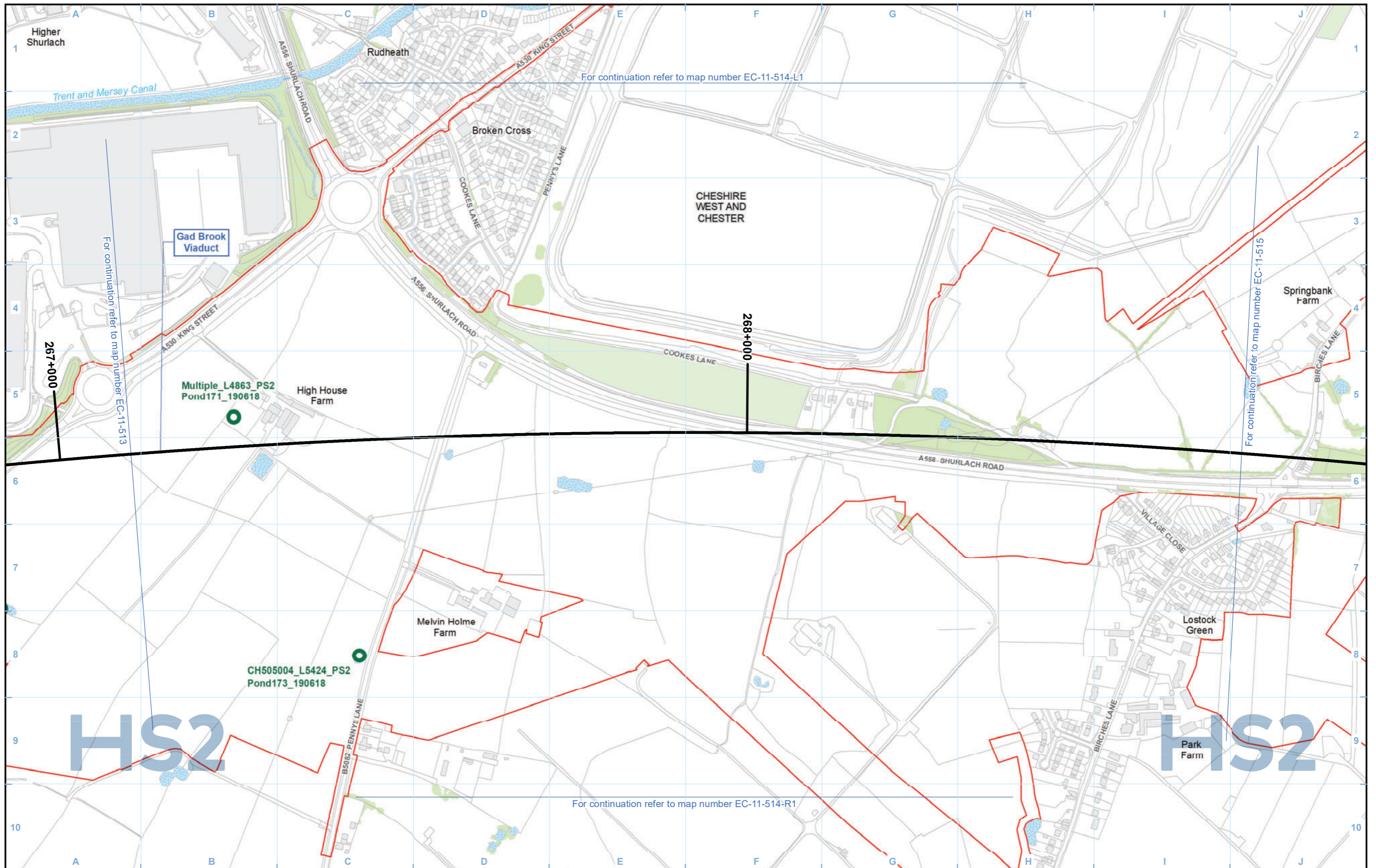
Scale at A3: 1:5,000



For continuation refer to map number EC-11-513

BT13\_S002\_OT1\_181018

<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otter holt</li> <li>Potential otter holt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-513-R1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 				<small>© Crown copyright and database rights 2020 OS 100049190</small>	
<b>Map Name</b> Other Protected and Notable Species (1)		<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003411-P01</small>		<small>Date: 22/10/21</small>					



For continuation refer to map number EC-11-514-L1

For continuation refer to map number EC-11-513

For continuation refer to map number EC-11-515

For continuation refer to map number EC-11-514-R1

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Otter: Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	White clawed crayfish: Manual search and/or trapping conducted and assumed absent
	White clawed crayfish: Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey: Pond survey - PSYM
	Pond survey: Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-514
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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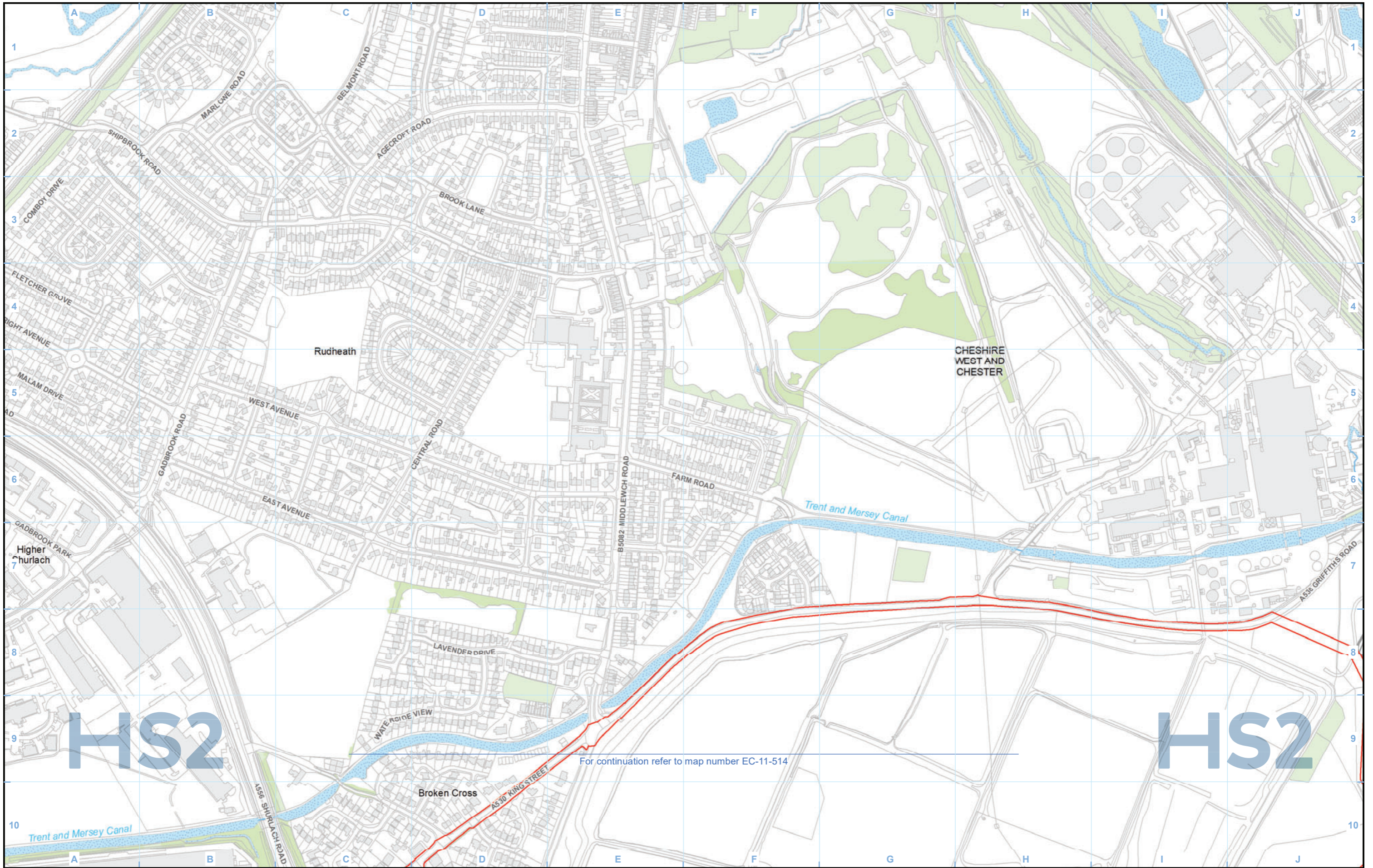
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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate survey extent

- Terrestrial Invertebrate**
- Terrestrial invertebrate survey extent

Map Number **EC-11-514-L1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA02:  
Wimboldsley to Lostock Gralam

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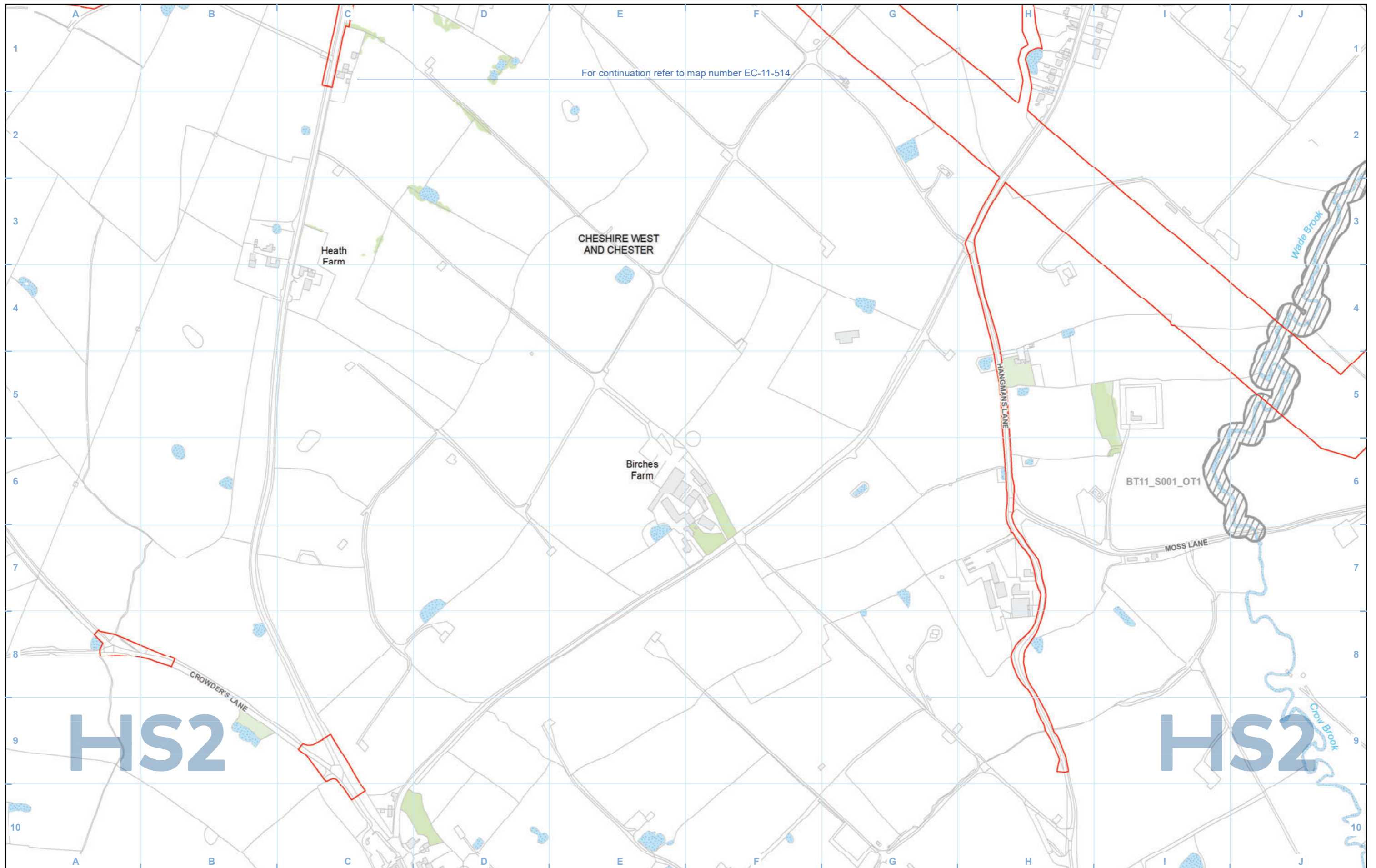
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Scale at A3: 1:5,000

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Metres

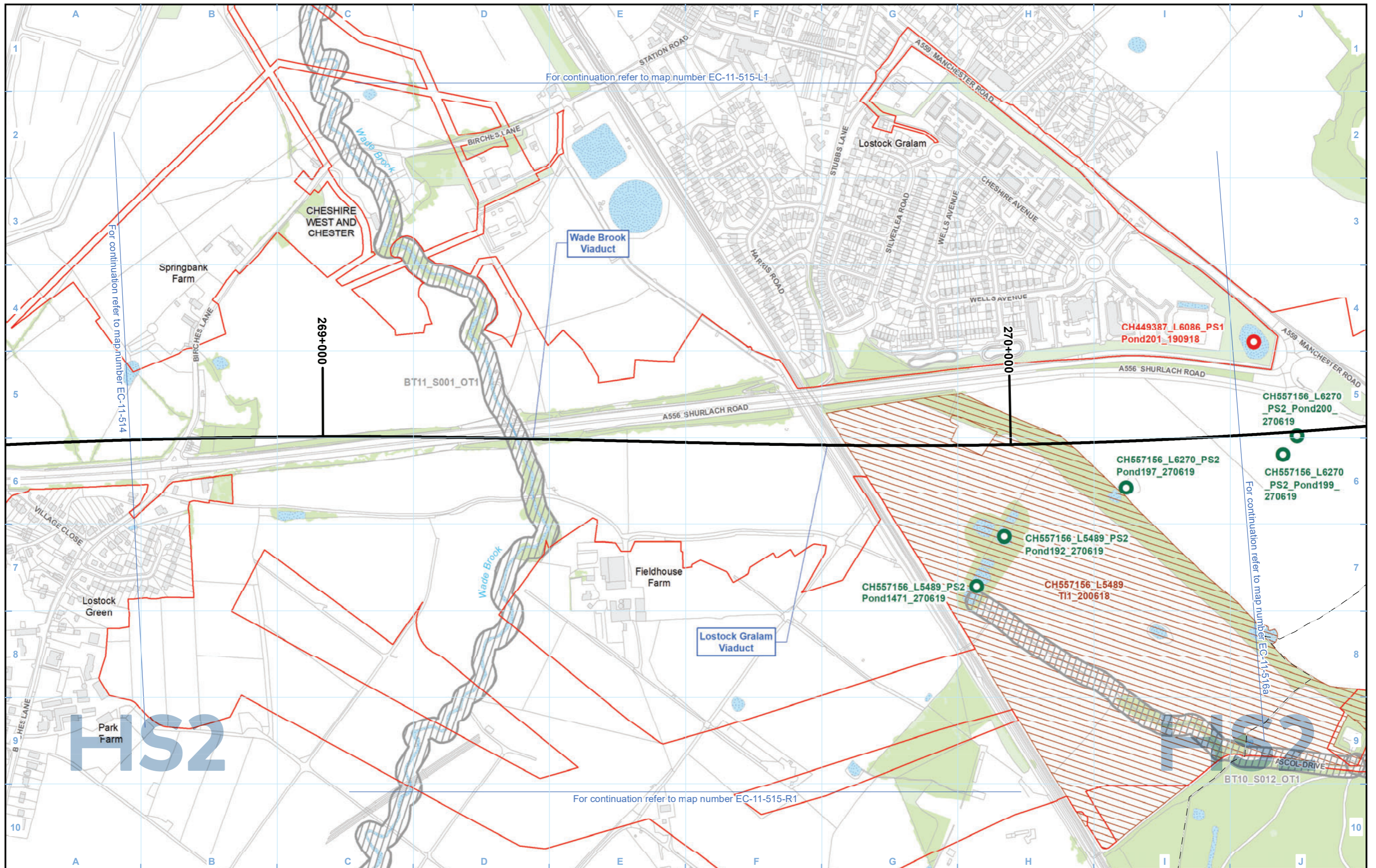
Date: 22/10/21



For continuation refer to map number EC-11-514

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-514-R1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<small>Scale at A3: 1:5,000</small> 			
<b>Map Name</b> Other Protected and Notable Species (1)		<b>HS2</b>		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Scale at A3: 1:5,000</small> 		<small>Date: 22/10/21</small>	
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003413-P01</small>							





For continuation refer to map number EC-11-515-L1

For continuation refer to map number EC-11-514

For continuation refer to map number EC-11-516a

For continuation refer to map number EC-11-515-R1

Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-515
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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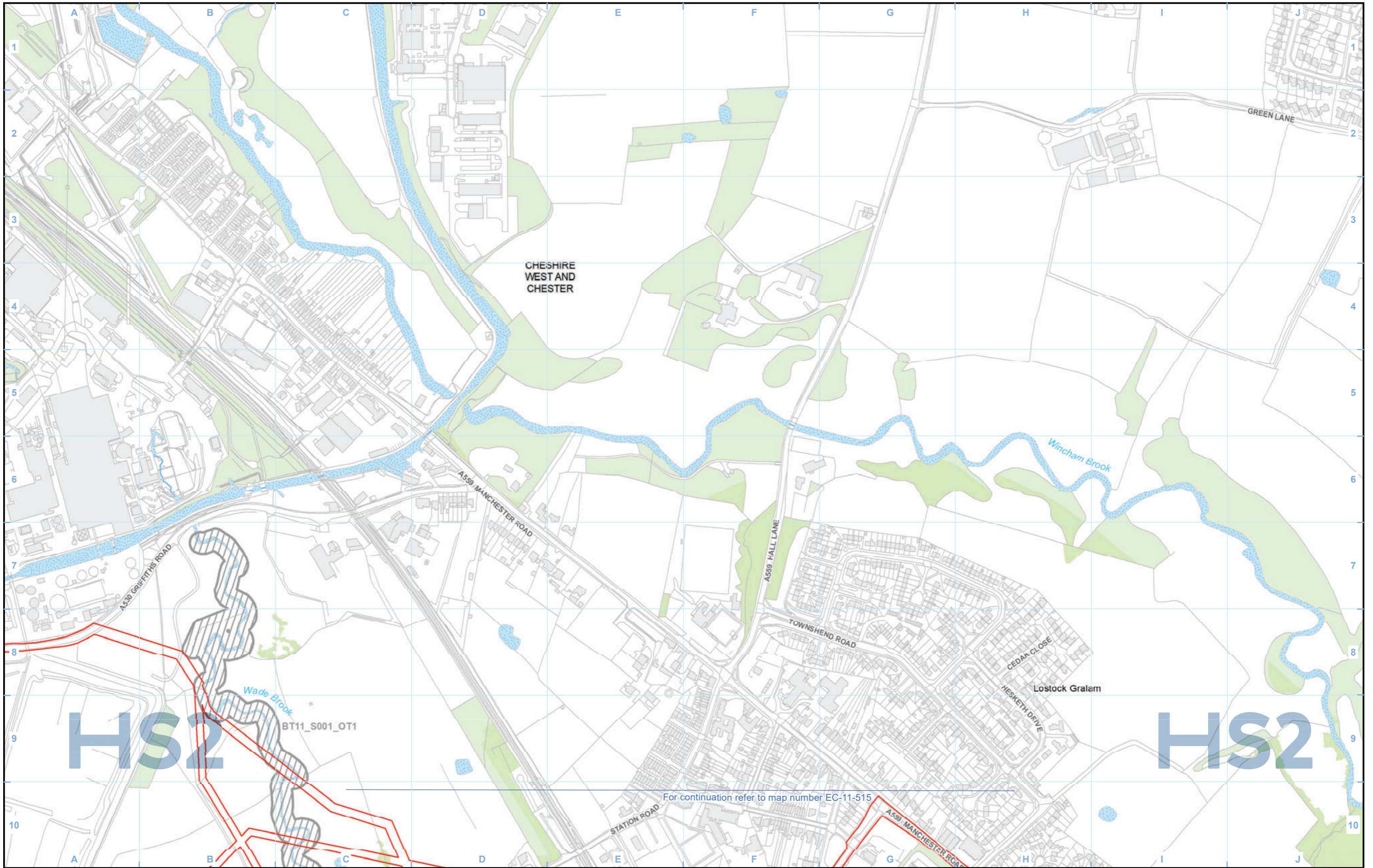
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Scale at A3: 1:5,000

Metres

Date: 22/10/21



For continuation refer to map number EC-11-515

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number **EC-11-515-L1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA02:  
Wimboldsley to Lostock Gralam

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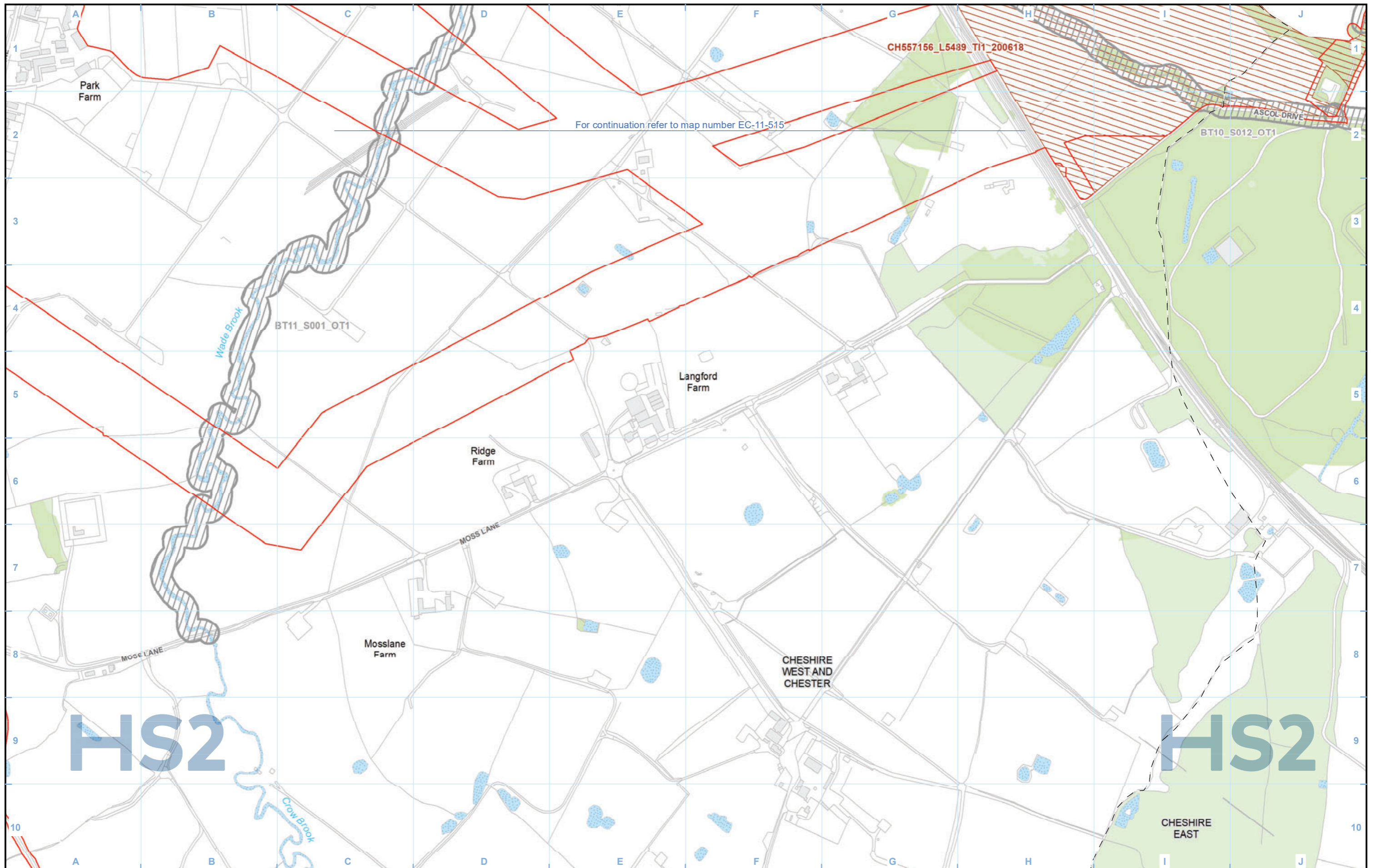
Doc Number: 2DE01-MWJ-EV-MAP-M000-003414-P01

Date: 22/10/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres

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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Otter: Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	White clawed crayfish: Manual search and/or trapping conducted and assumed absent
	White clawed crayfish: Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial Invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-515-R1
Map Name	Other Protected and Notable Species (1)
	Community Area MA02: Wimboldsley to Lostock Gralam

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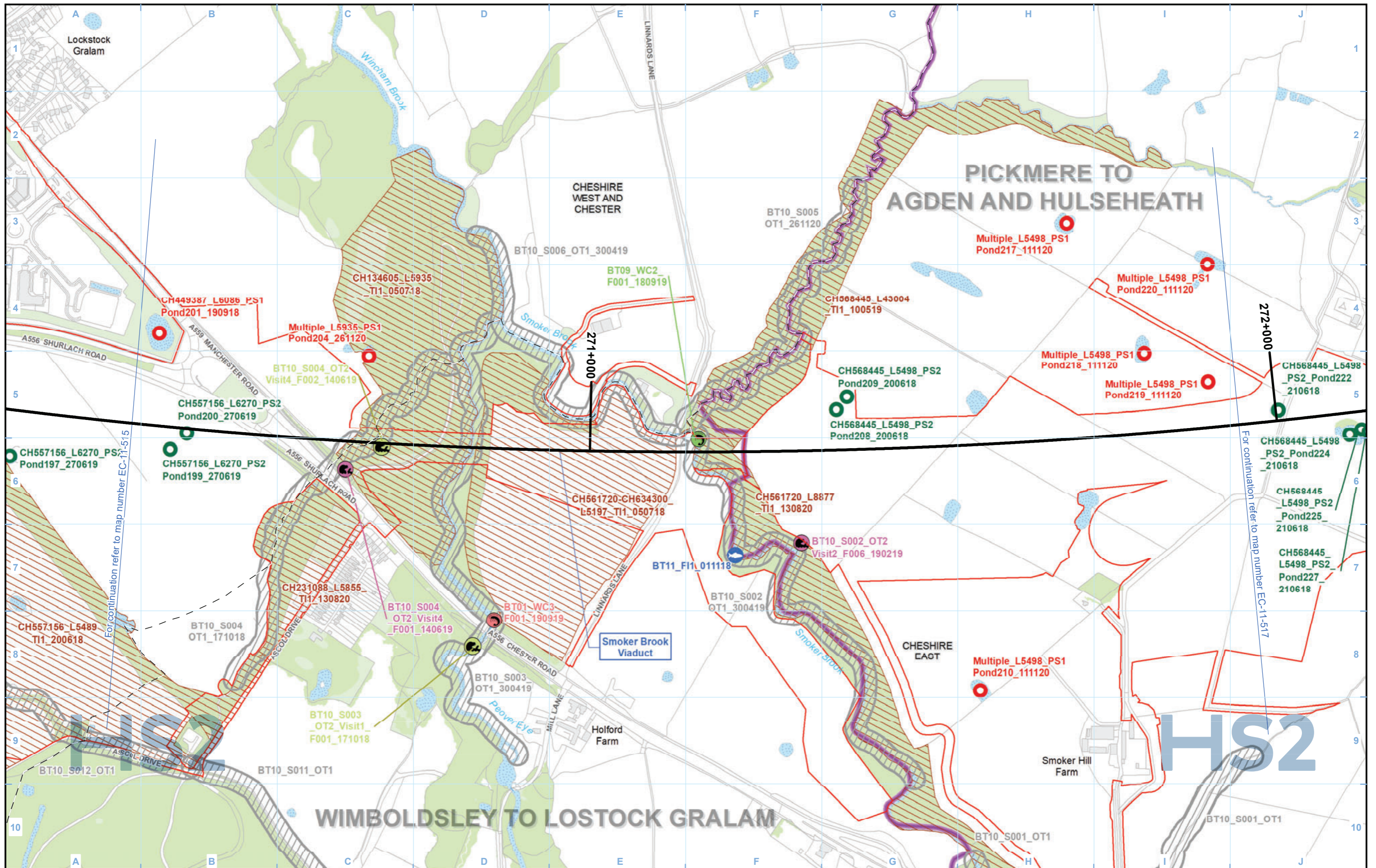
Doc Number: 2DE01-MWJ-EV-MAP-M000-003415-P01

Scale at A3: 1:5,000

Metres

Date: 22/10/21

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**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Map Number: EC-11-516a

Map Name: Other Protected and Notable Species (1)

Community Area MA02: Wimboldsley to Lostock Gralam

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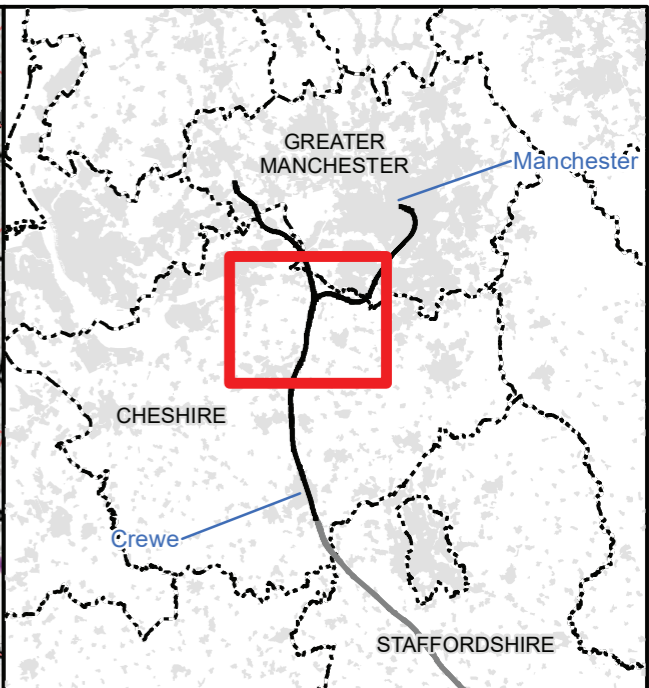
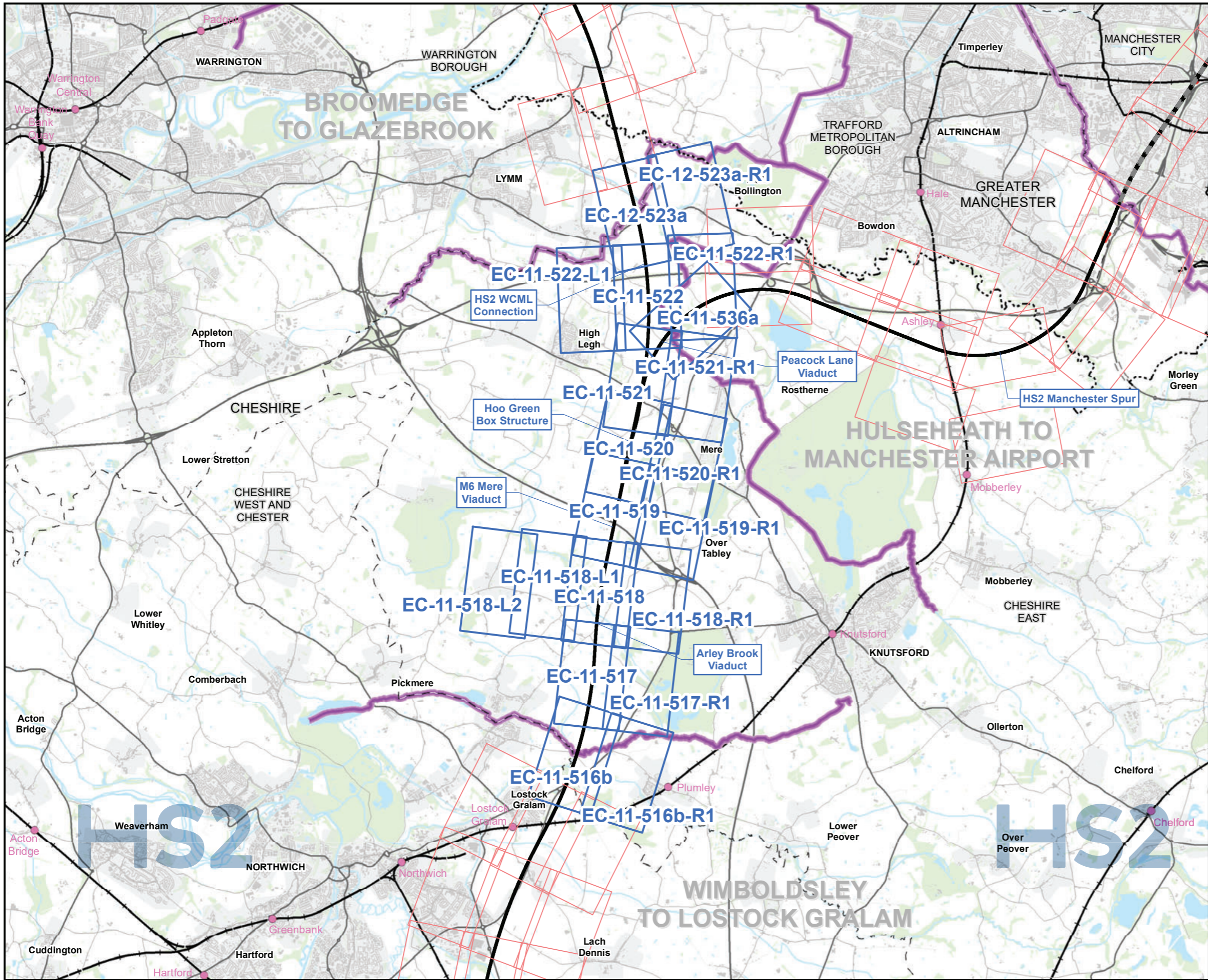
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001393-P01

Date: 22/10/21

Scale at A3: 1:5,000

Metres



**Map Series Information:**

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area
  - Map sheets not included in this community area

Map Number	EC-11-INDEX-MA03
Map Name	Index Map of: Other Protected and Notable Species (1)
Community Area MA03: Pickmere to Agden and Hulseheath	

**HS2**

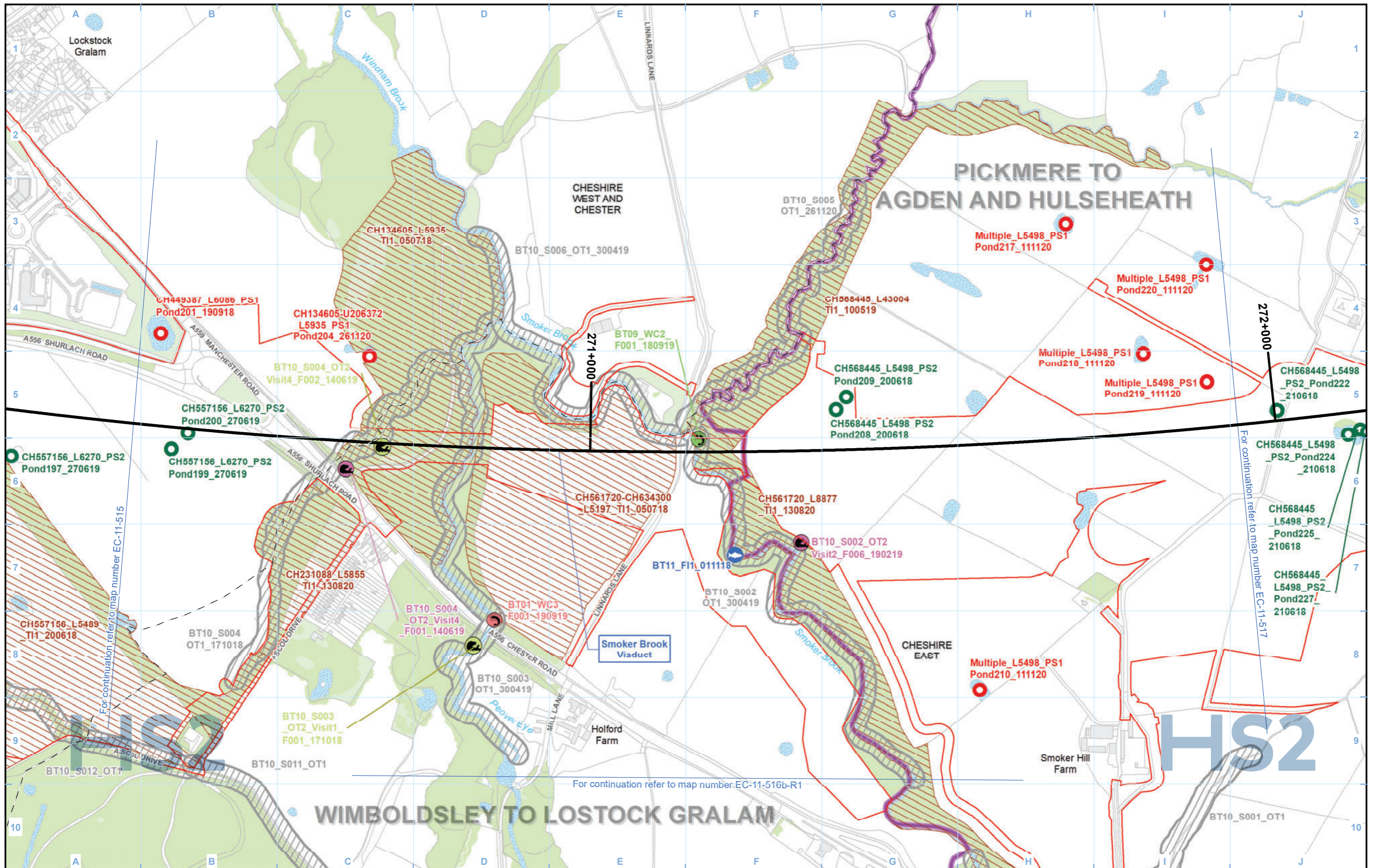
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001441-P01      Date: 03/09/21

Note: Not all data layers in the legend are represented on every map.



- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number: EC-11-516b

Map Name: Other Protected and Notable Species (1)

Community Area MA03:  
Pickmere to Agden and Hulseheath

**HS2**

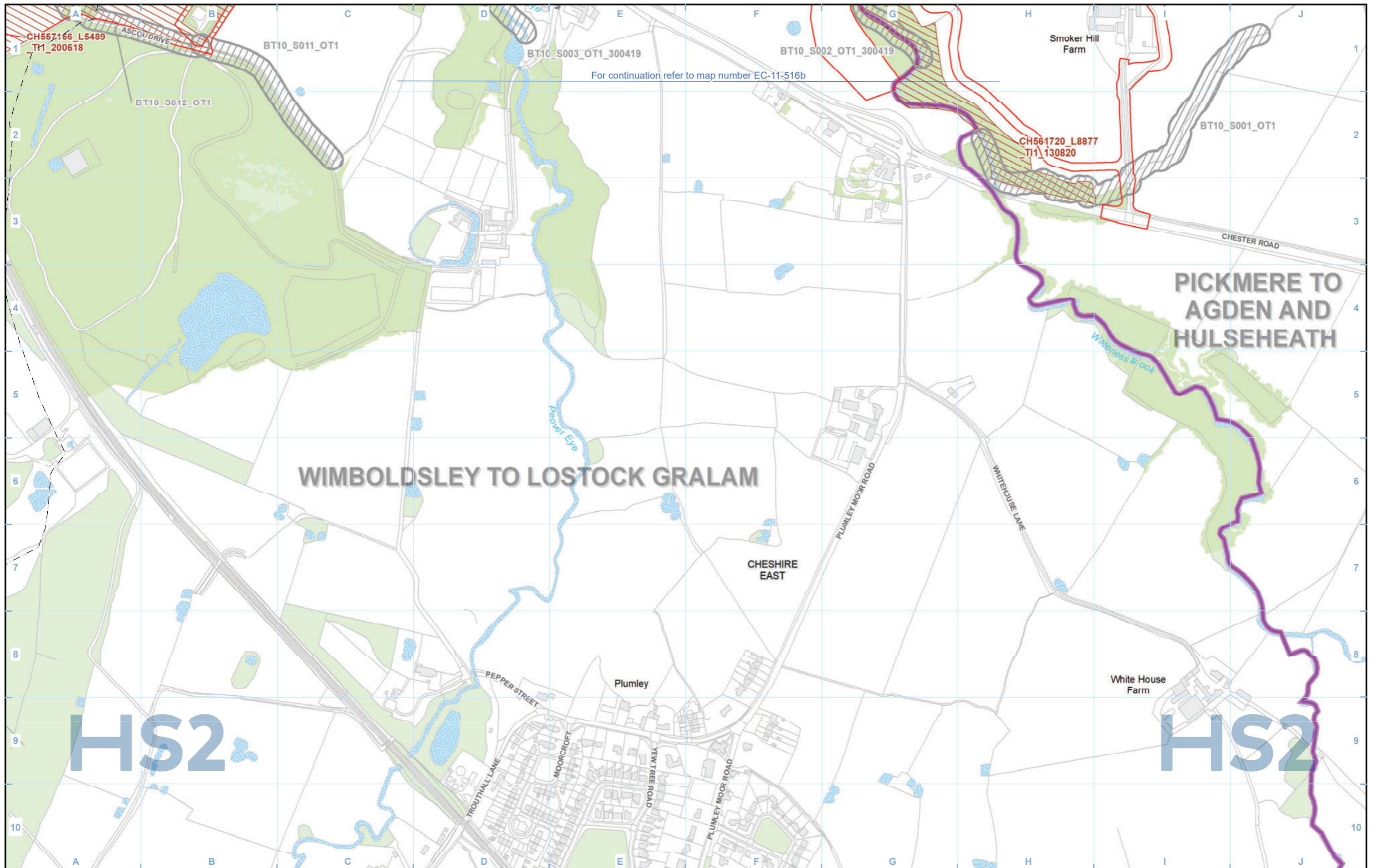
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Date: 03/09/21

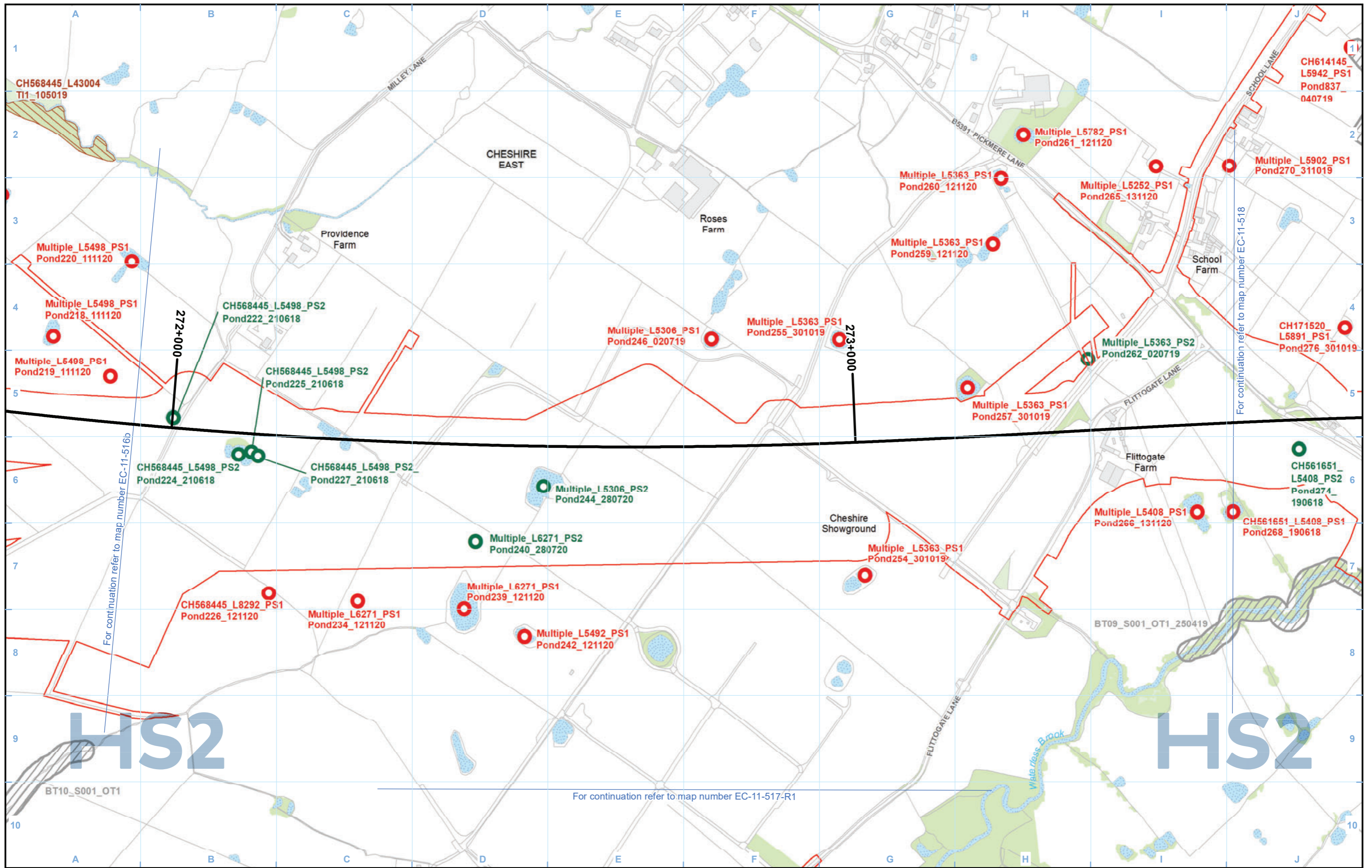


For continuation refer to map number EC-11-516b

# WIMBOLDSLEY TO LOSTOCK GRALAM

# PICKMERE TO AGDEN AND HULSEHEATH

<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otter holt</li> <li>Potential otter holt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-516b-R1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 				<small>© Crown copyright and database rights 2020 OS 100049190</small>	
<b>Map Name</b> Other Protected and Notable Species (1)		<b>Community Area MA03:</b> Pickmere to Agden and Hulseheath		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003416-P01		<b>Date:</b> 03/09/21					



CH568445\_L43004  
TI1\_105019

CH614145  
L5942\_PS1  
Pond837\_040719

Multiple\_L5782\_PS1  
Pond261\_121120

Multiple\_L5902\_PS1  
Pond270\_311019

Multiple\_L5498\_PS1  
Pond220\_111120

Multiple\_L5498\_PS1  
Pond218\_111120

Multiple\_L5498\_PS1  
Pond219\_111120

CH568445\_L5498\_PS2  
Pond222\_210618

CH568445\_L5498\_PS2  
Pond225\_210618

Multiple\_L5306\_PS1  
Pond246\_020719

Multiple\_L5363\_PS1  
Pond255\_301019

Multiple\_L5363\_PS1  
Pond259\_121120

Multiple\_L5252\_PS1  
Pond265\_131120

Multiple\_L5363\_PS2  
Pond262\_020719

Multiple\_L5363\_PS1  
Pond257\_301019

CH171520  
L5891\_PS1  
Pond276\_301019

CH568445\_L5498\_PS2  
Pond224\_210618

CH568445\_L5498\_PS2  
Pond227\_210618

Multiple\_L5306\_PS2  
Pond244\_280720

Multiple\_L6271\_PS2  
Pond240\_280720

Multiple\_L5363\_PS1  
Pond254\_301019

CH561651  
L5408\_PS2  
Pond274\_190618

Multiple\_L5408\_PS1  
Pond266\_131120

CH561651\_L5408\_PS1  
Pond268\_190618

CH568445\_L8292\_PS1  
Pond226\_121120

Multiple\_L6271\_PS1  
Pond234\_121120

Multiple\_L6271\_PS1  
Pond239\_121120

Multiple\_L5492\_PS1  
Pond242\_121120

BT09\_S001\_OT1\_250419

BT10\_S001\_OT1

For continuation refer to map number EC-11-516b

For continuation refer to map number EC-11-518

For continuation refer to map number EC-11-517-R1

MILLET LANE

CHESHIRE EAST

PROVIDENCE FARM

ROSES FARM

SCHOOL FARM

FLITTOGATE FARM

CHESHIRE SHOWGROUND

WATE NESS BROOK

272+000

273+000

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Woodland (verified by survey)
- Otter:
  - Active otterholt
  - Potential otterholt
  - Suitable habitat for otter
- White clawed crayfish:
  - Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available
- Pond survey:
  - Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method
- Fish:
  - Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number  
EC-11-517

Map Name  
Other Protected and Notable Species (1)

Community Area MA03:  
Pickmere to Agden and Hulseheath

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0 50 100 150 200 Metres

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Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-517-R1
Map Name	Other Protected and Notable Species (1)
	Community Area MA03: Pickmere to Agden and Hulseheath

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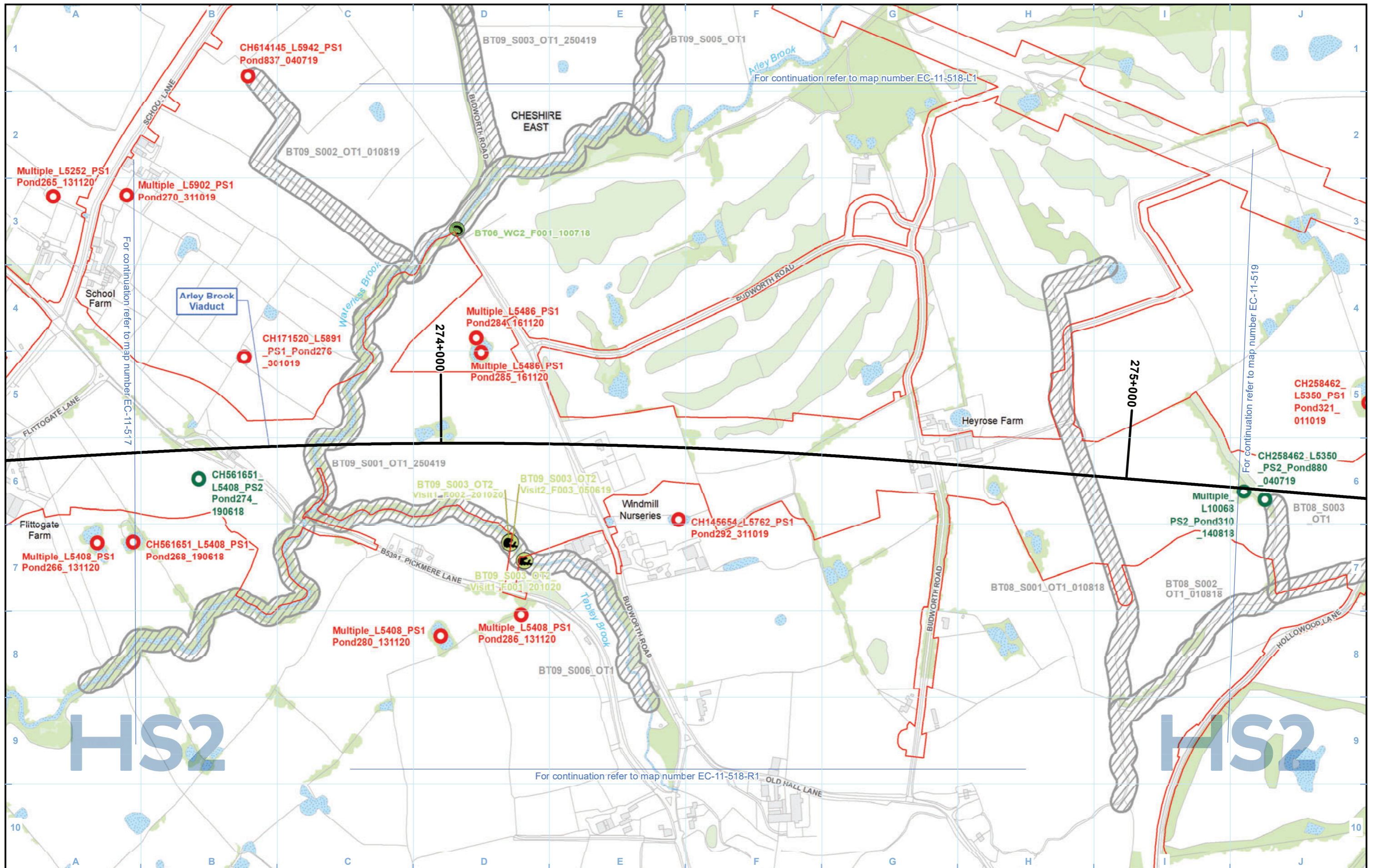
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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

- Map Number** EC-11-518
- Map Name** Other Protected and Notable Species (1)
- Community Area MA03:  
Pickmere to Agden and Hulseheath

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Metres

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For continuation refer to map number EC-11-518-L2

For continuation refer to map number EC-11-518

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number **EC-11-518-L1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA03:  
Pickmere to Agden and Hulseheath

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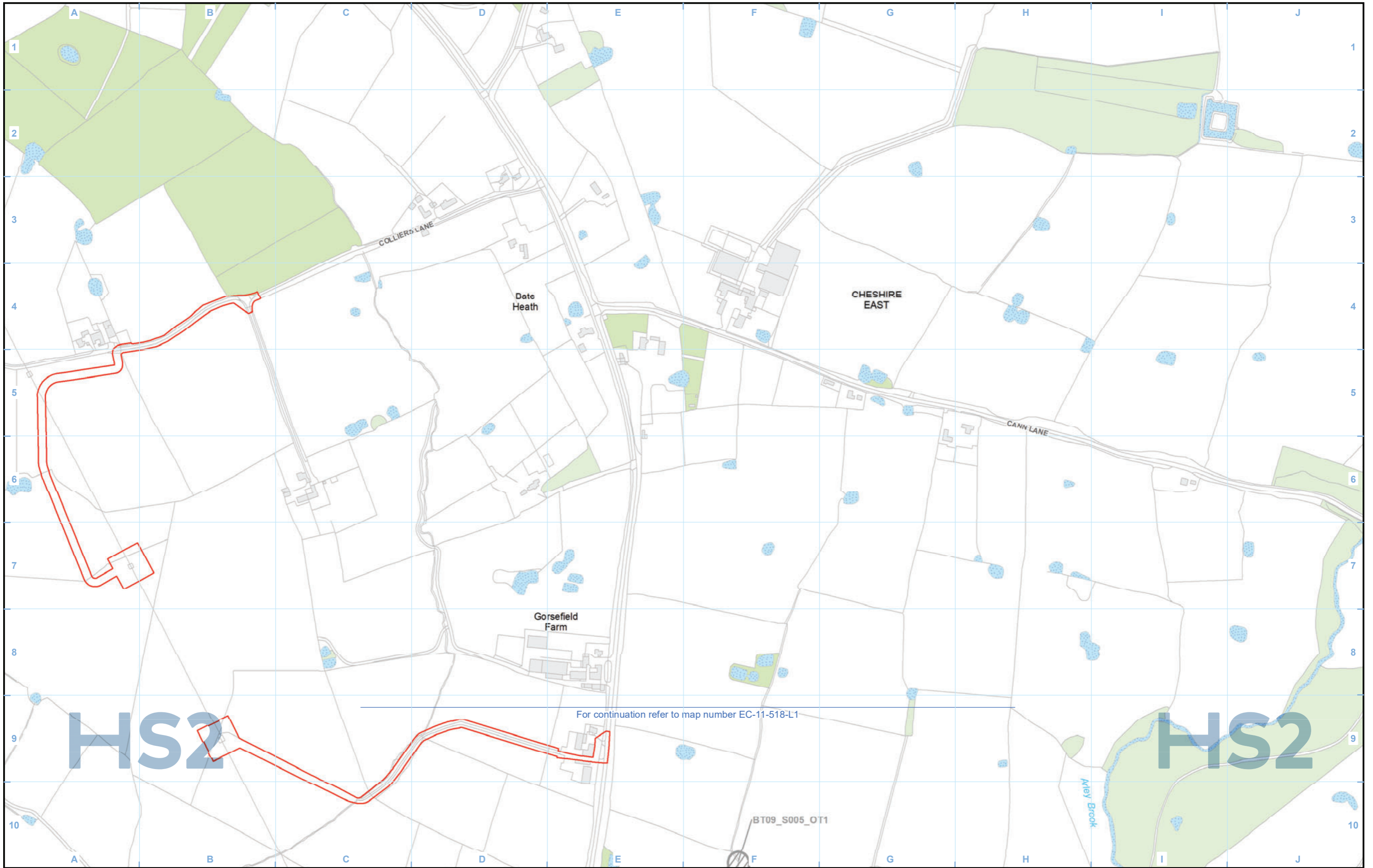
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Date: 03/09/21

Scale at A3: 1:5,000

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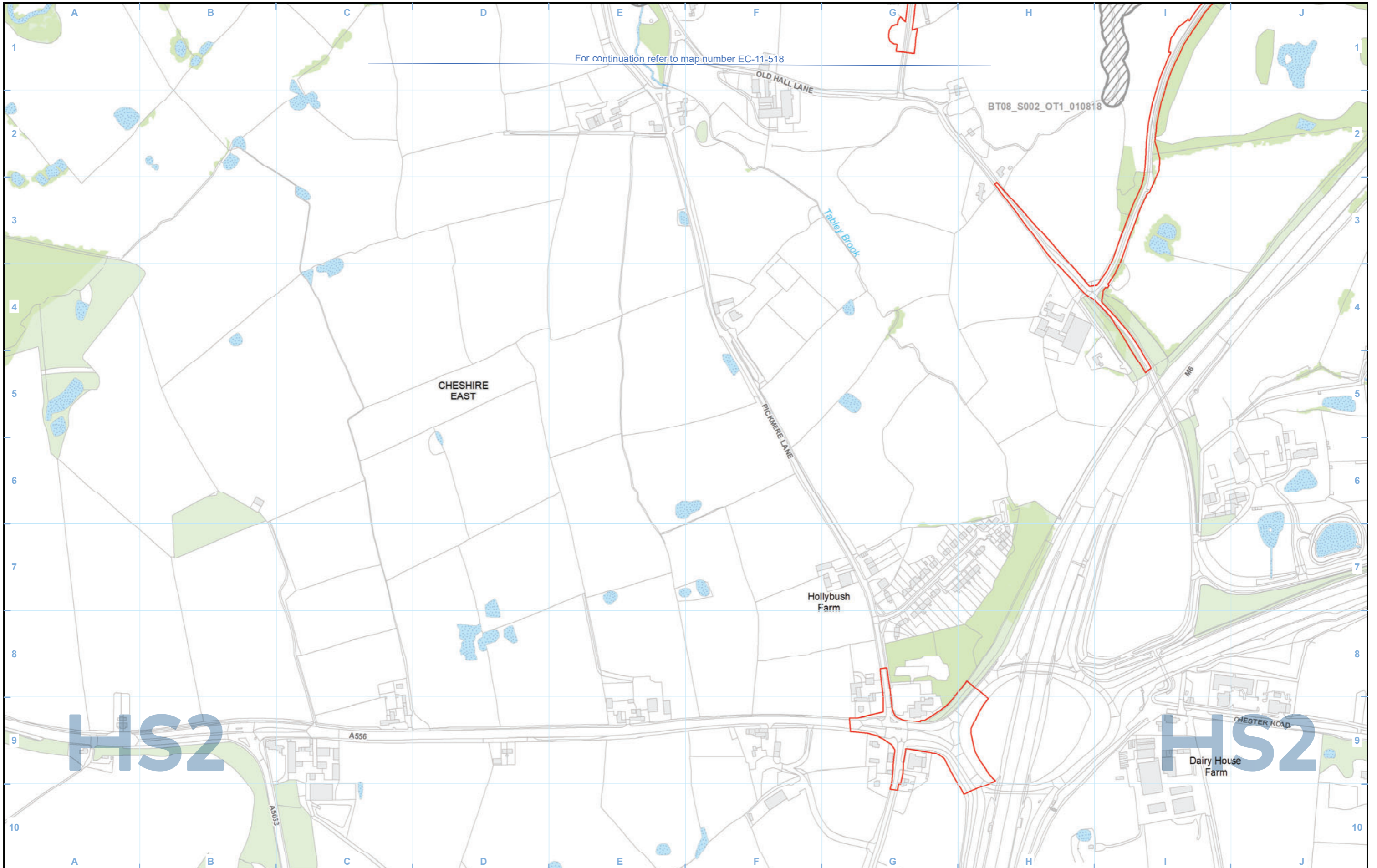
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For continuation refer to map number EC-11-518-L1

BT09\_S005\_OT1

<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otter holt</li> <li>Potential otter holt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-518-L2		<b>Map Name</b> Other Protected and Notable Species (1)				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<small>© Crown copyright and database rights 2020 OS 100049190</small>			
<b>Community Area MA03:</b> Pickmere to Agden and Hulseheath		<b>Scale at A3: 1:5,000</b> 		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003419-P01</small>		<small>Date: 03/09/21</small>					

For continuation refer to map number EC-11-518



# HS2

# HS2

**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Map Number: EC-11-518-R1

Map Name: Other Protected and Notable Species (1)

Community Area MA03:  
Pickmere to Agden and Hulseheath

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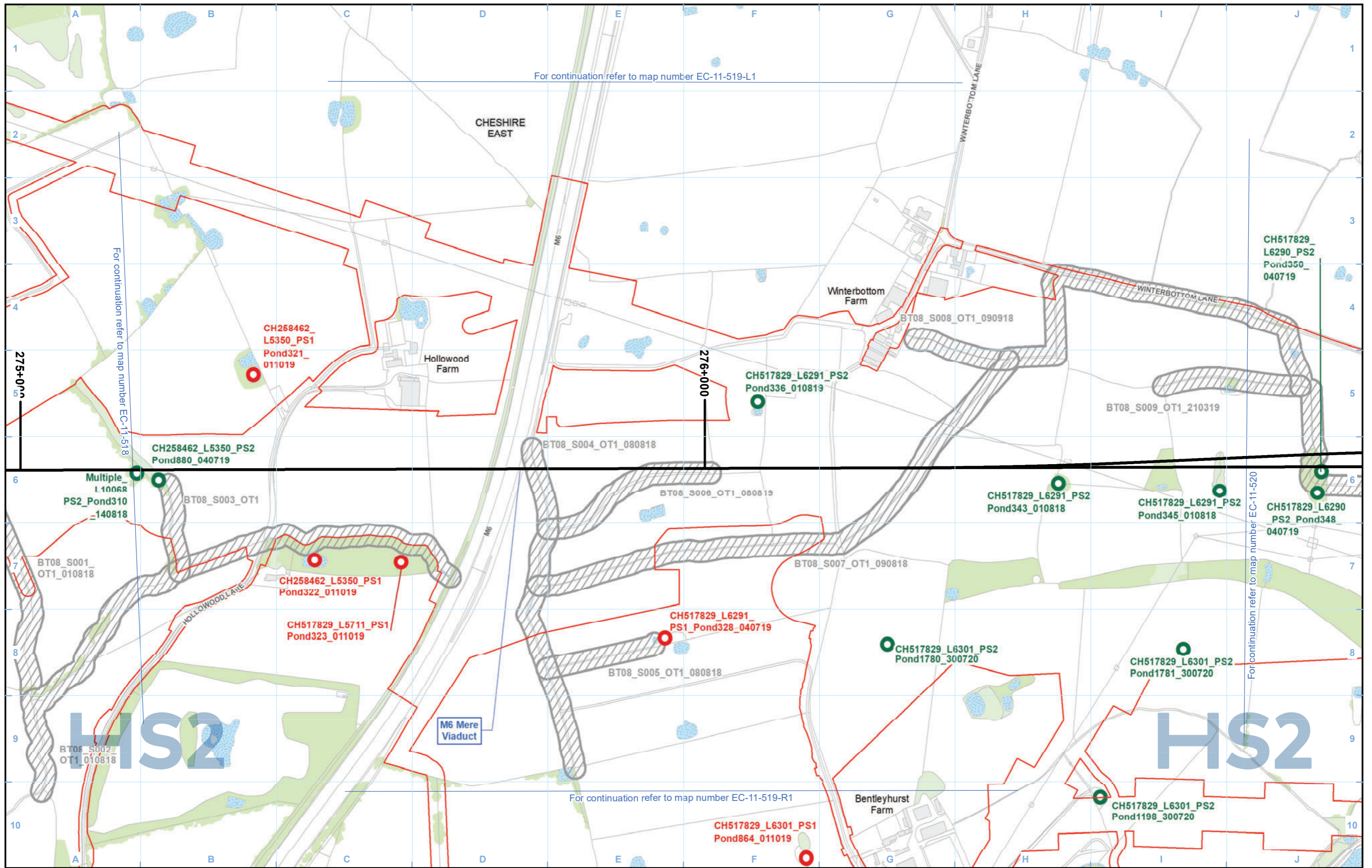
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Date: 03/09/21

Scale at A3: 1:5,000

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For continuation refer to map number EC-11-519-L1

For continuation refer to map number EC-11-518

For continuation refer to map number EC-11-520

For continuation refer to map number EC-11-519-R1

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number: EC-11-519

Map Name: Other Protected and Notable Species (1)

Community Area MA03: Pickmere to Agden and Hulseheath

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Date: 03/09/21

Scale at A3: 1:5,000

Metres



For continuation refer to map number EC-11-519

CH517829\_L6301\_PS1  
Pond864\_011019

CH517829\_L6301\_PS2  
Pond1198\_300720

Bentleyriurst Farm

CHESHIRE EAST

Over Tabley

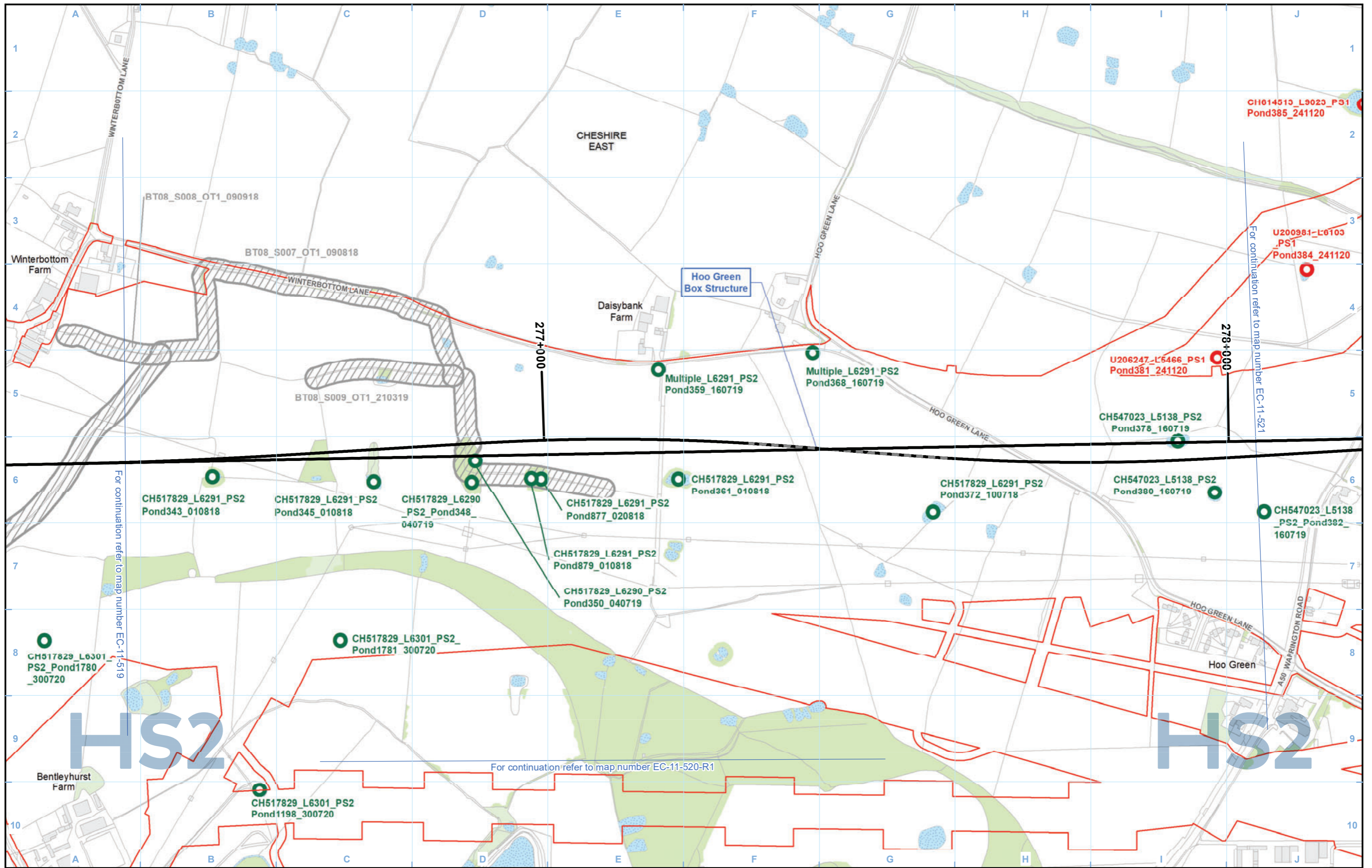
Knowlespit Farm

Dairy House Farm

HS2

HS2

<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otter holt</li> <li>Potential otter holt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
Map Number <b>EC-11-519-R1</b>		<b>HS2</b> <small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190</small>		Map Name <b>Other Protected and Notable Species (1)</b>		Scale at A3: 1:5,000 		Community Area MA03: Pickmere to Agden and Hulseheath		Doc Number: 2DE01-MWJ-EV-MAP-M000-003421-P01 Date: 03/09/21	



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Map Number: EC-11-520

Map Name: Other Protected and Notable Species (1)

Community Area MA03: Pickmere to Agden and Hulseheath

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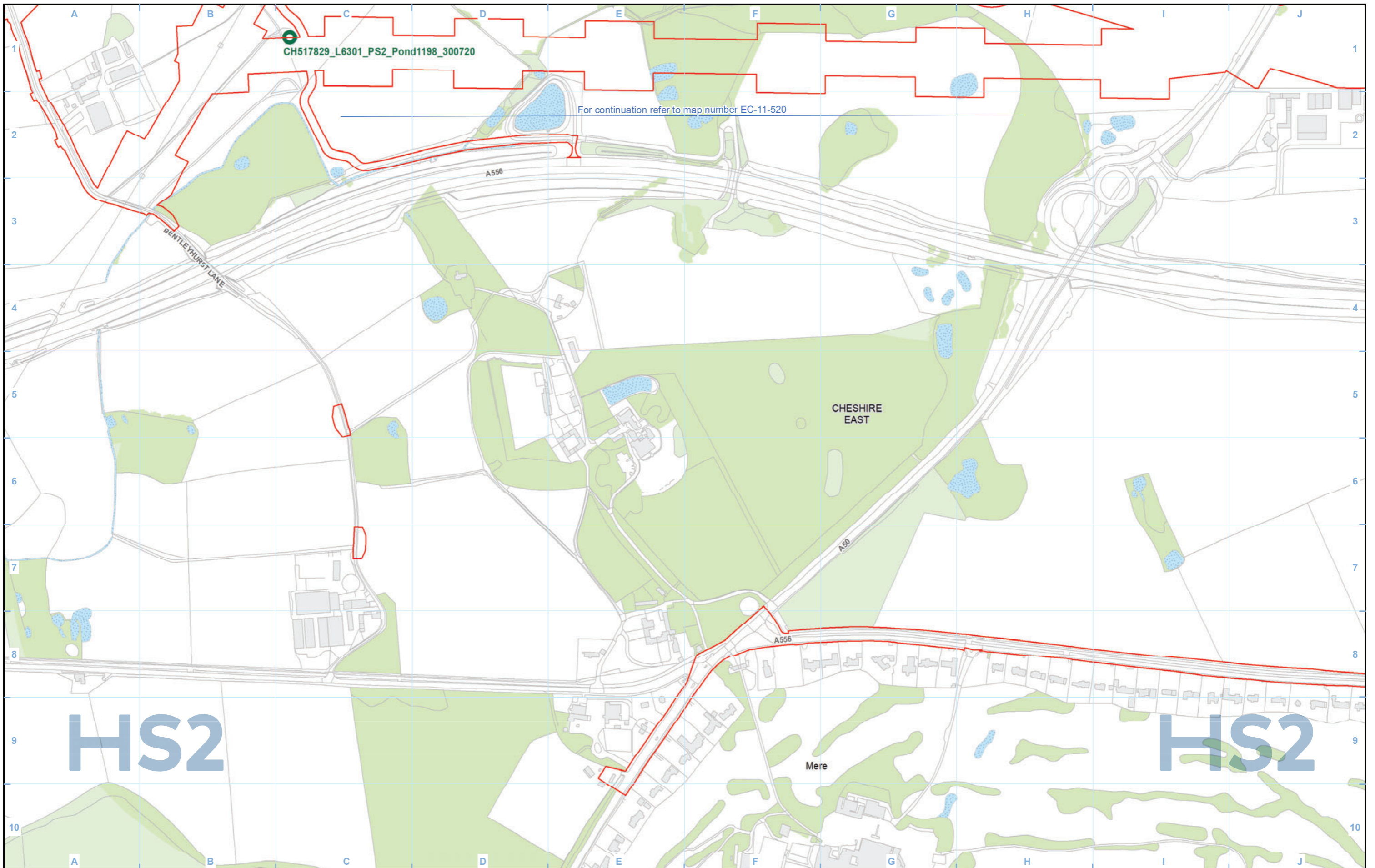
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Date: 03/09/21

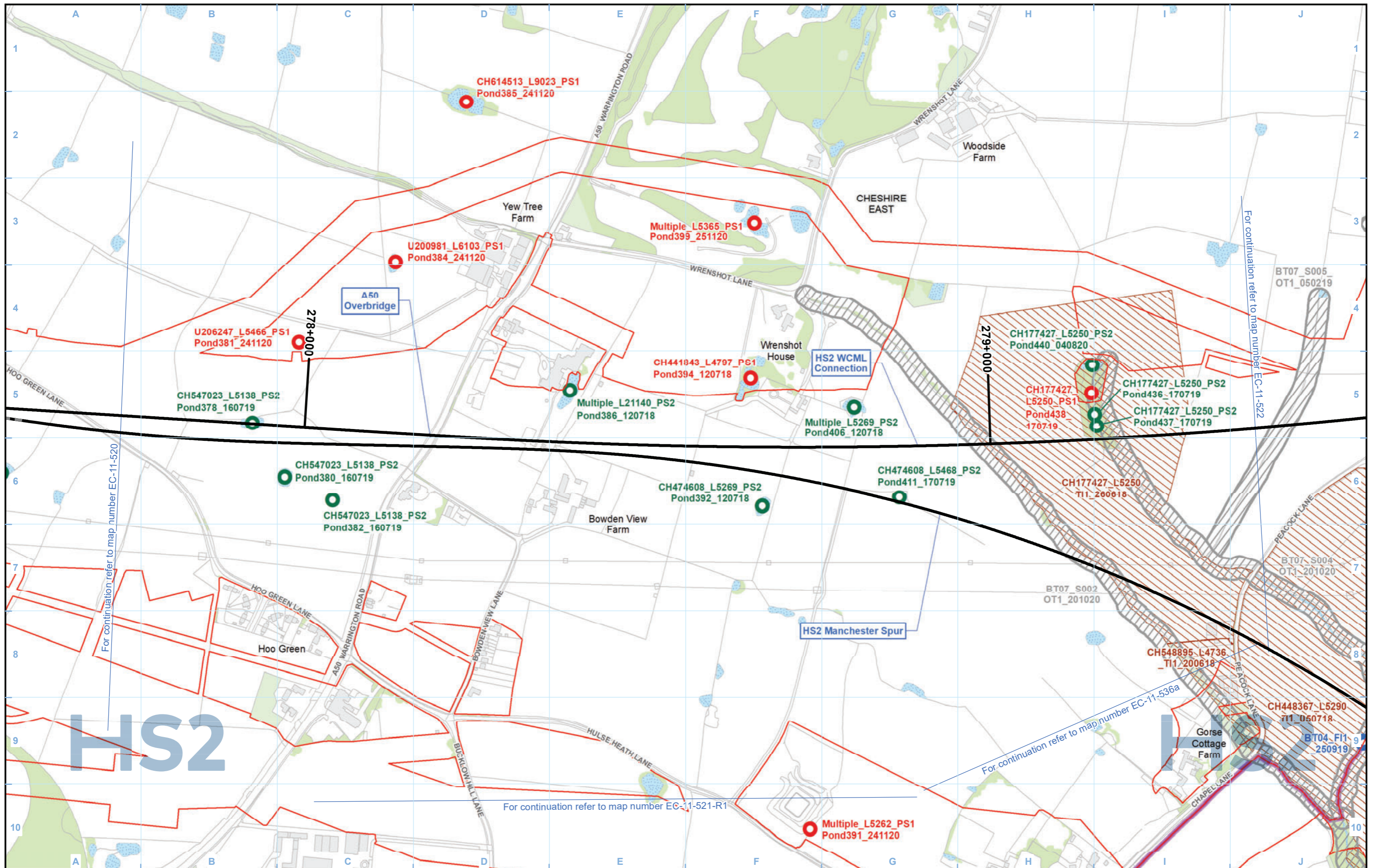
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<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-520-R1				<small>Registered in England. Registration number 06791686.            Registered office: 2 Snowhill, Queensway,            Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 			
<b>Map Name</b> Other Protected and Notable Species (1)		<small>© Crown copyright and database rights 2020            OS 100049190</small>		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003422-P01		<b>Date:</b> 03/09/21		<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Community Area MA03:</b> Pickmere to Agden and Hulseheath									



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-521
Map Name	Other Protected and Notable Species (1)
Community Area MA03: Pickmere to Agden and Hulseheath	

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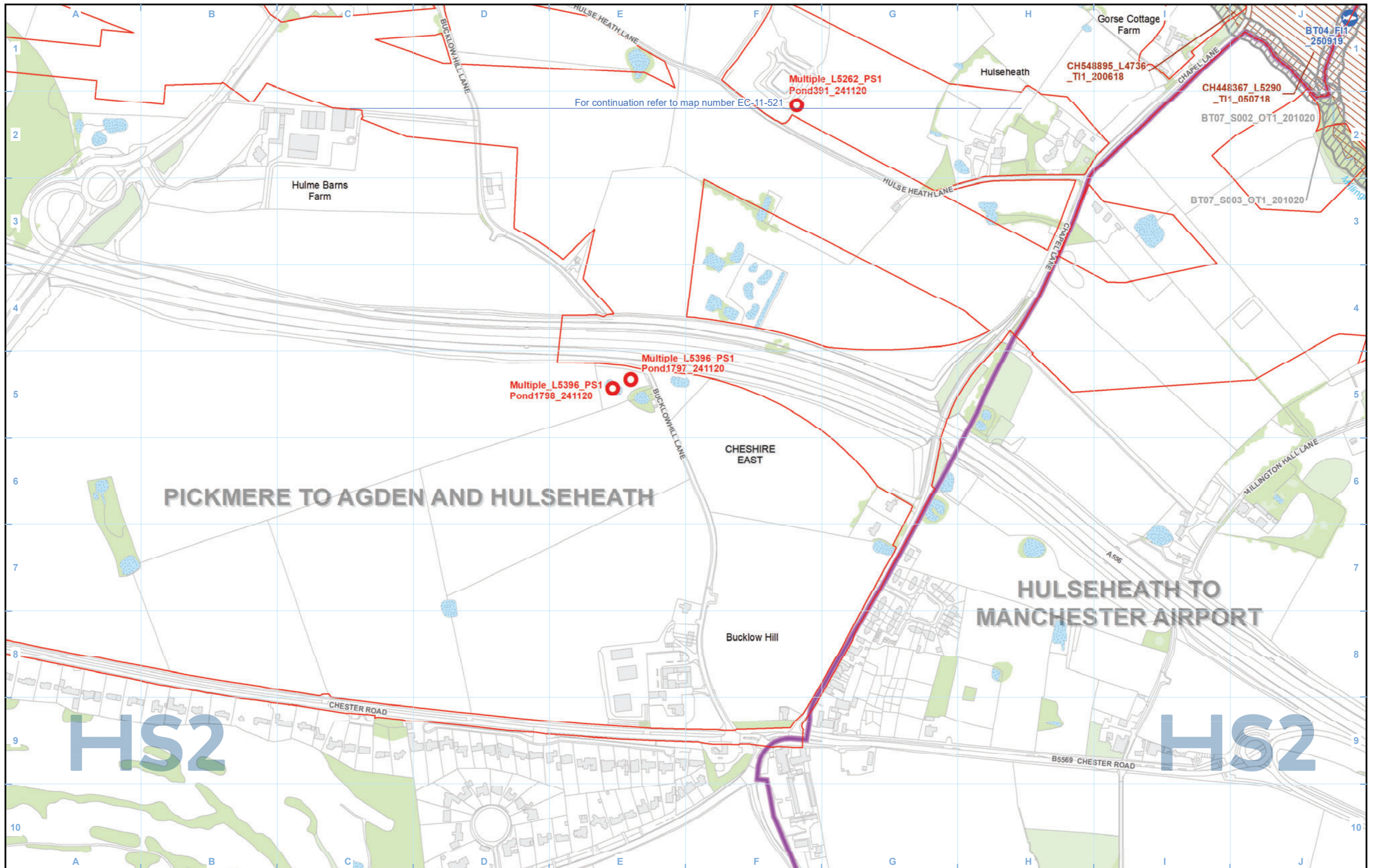
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Date: 03/09/21



For continuation refer to map number EC-11-521

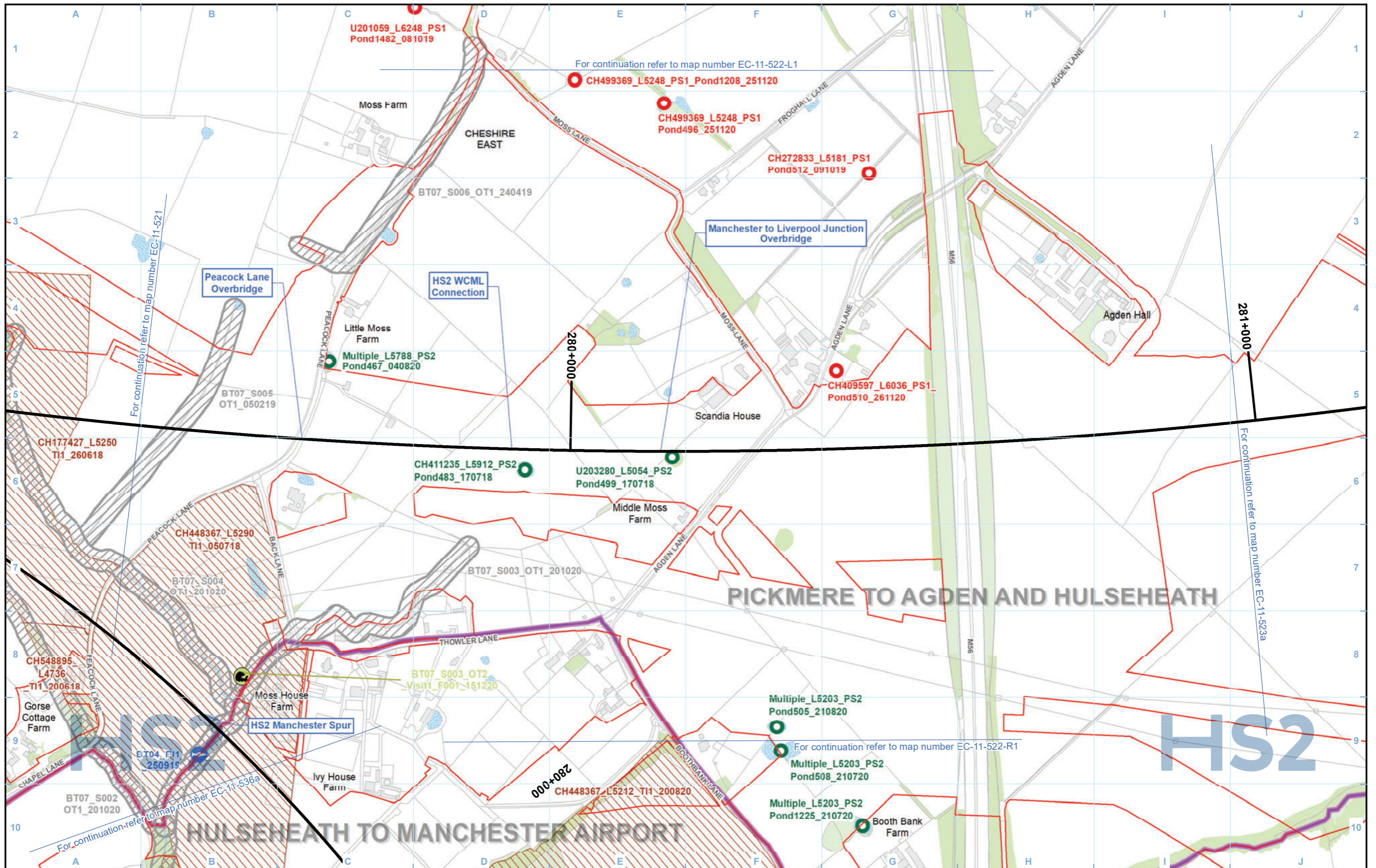
# PICKMERE TO AGDEN AND HULSEHEATH

# HULSEHEATH TO MANCHESTER AIRPORT

# HS2

# HS2

<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otterholt</li> <li>Potential otterholt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
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<b>Community Area MA03:</b> Pickmere to Agden and Hulseheath		<b>Scale at A3: 1:5,000</b> 		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003423-P01</small>		<small>Date: 03/09/21</small>					



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Otter: Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial invertebrate survey extent

Map Number	EC-11-522
Map Name	Other Protected and Notable Species (1)
Community Area MA03: Pickmere to Agden and Hulseheath	

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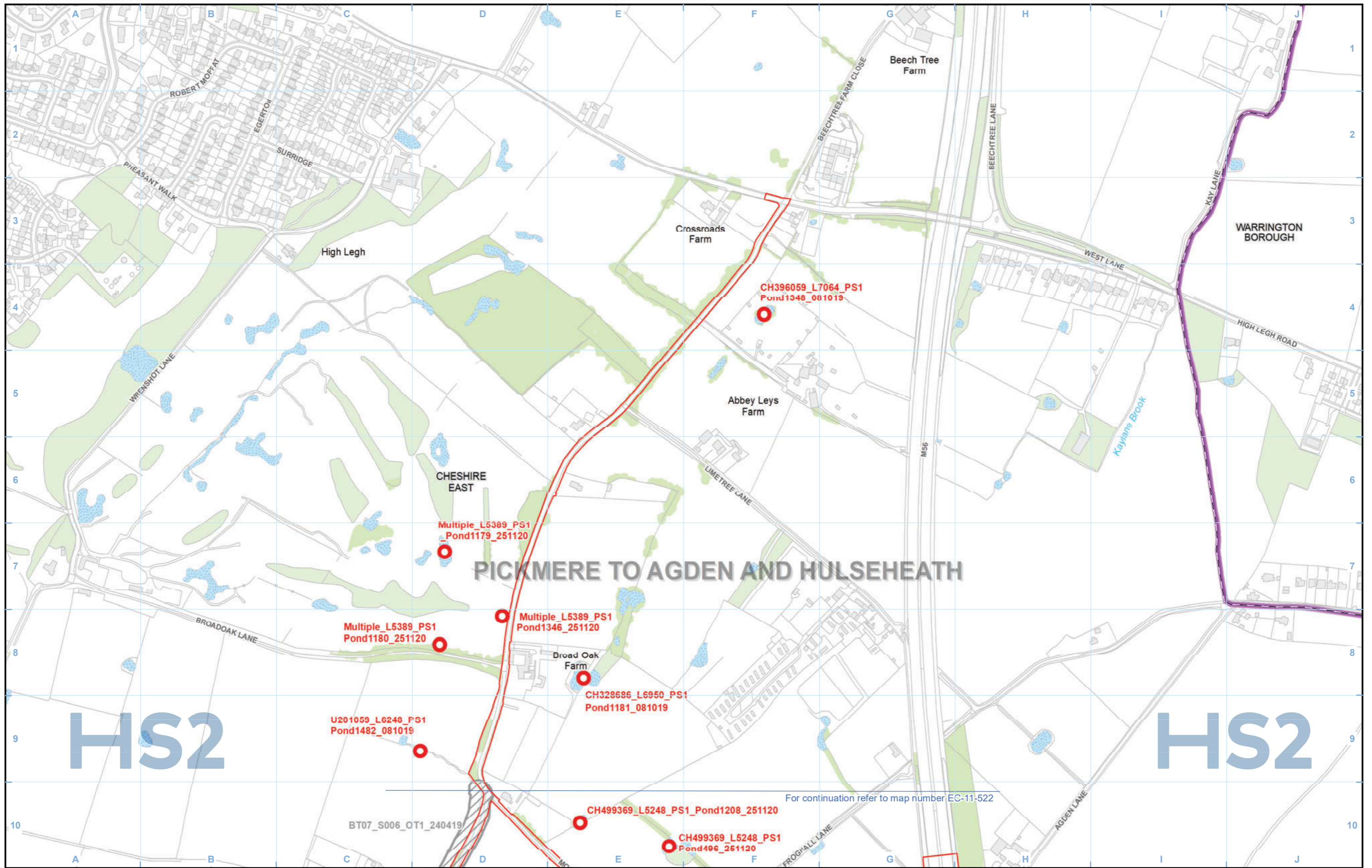
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Metres

Date: 03/09/21



# PICKMERE TO AGDEN AND HULSEHEATH

# HS2

# HS2

For continuation refer to map number EC-11-522

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number **EC-11-522-L1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA03:  
Pickmere to Agden and Hulseheath

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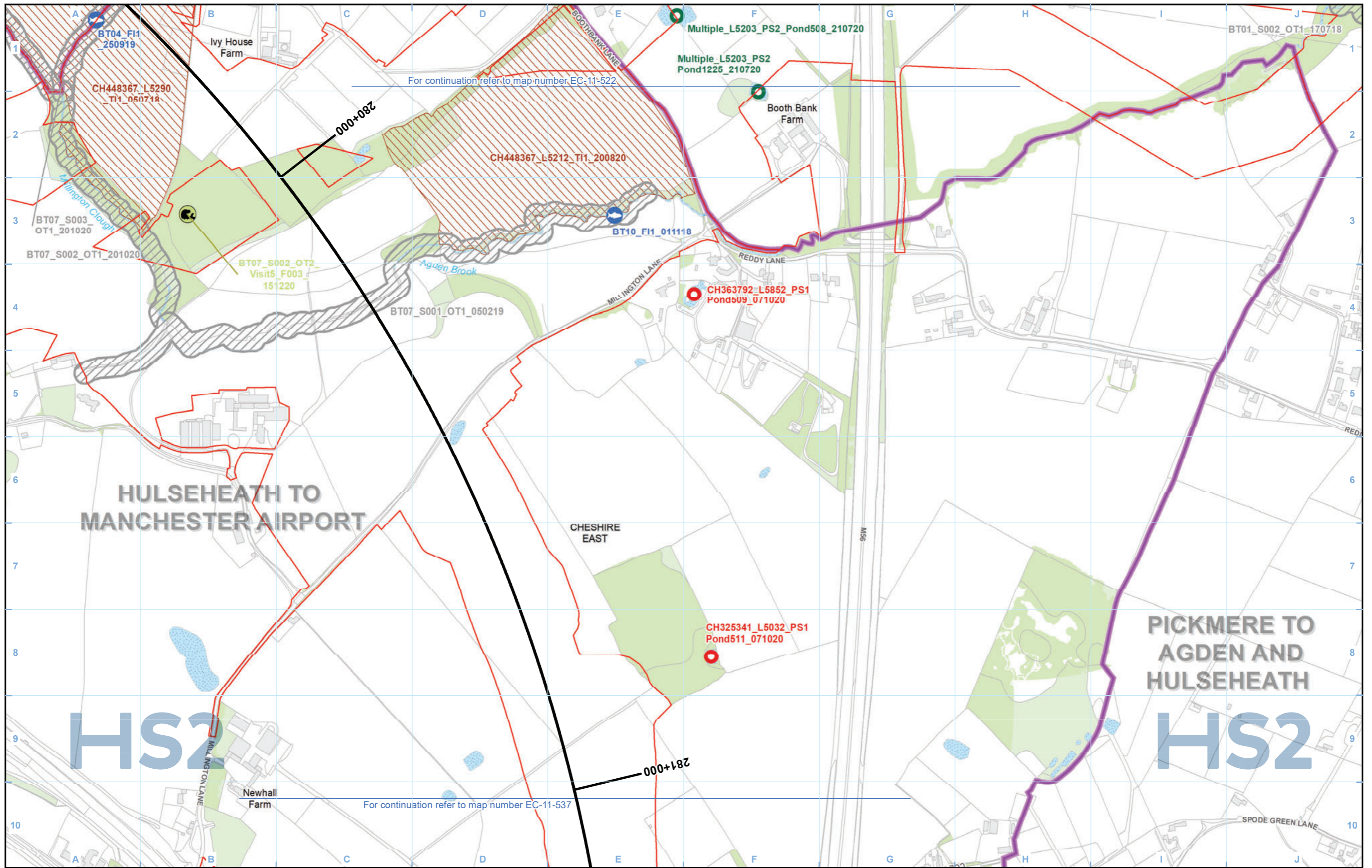
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Metres



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-522-R1
Map Name	Other Protected and Notable Species (1)
Community Area MA03: Pickmere to Agden and Hulseheath	

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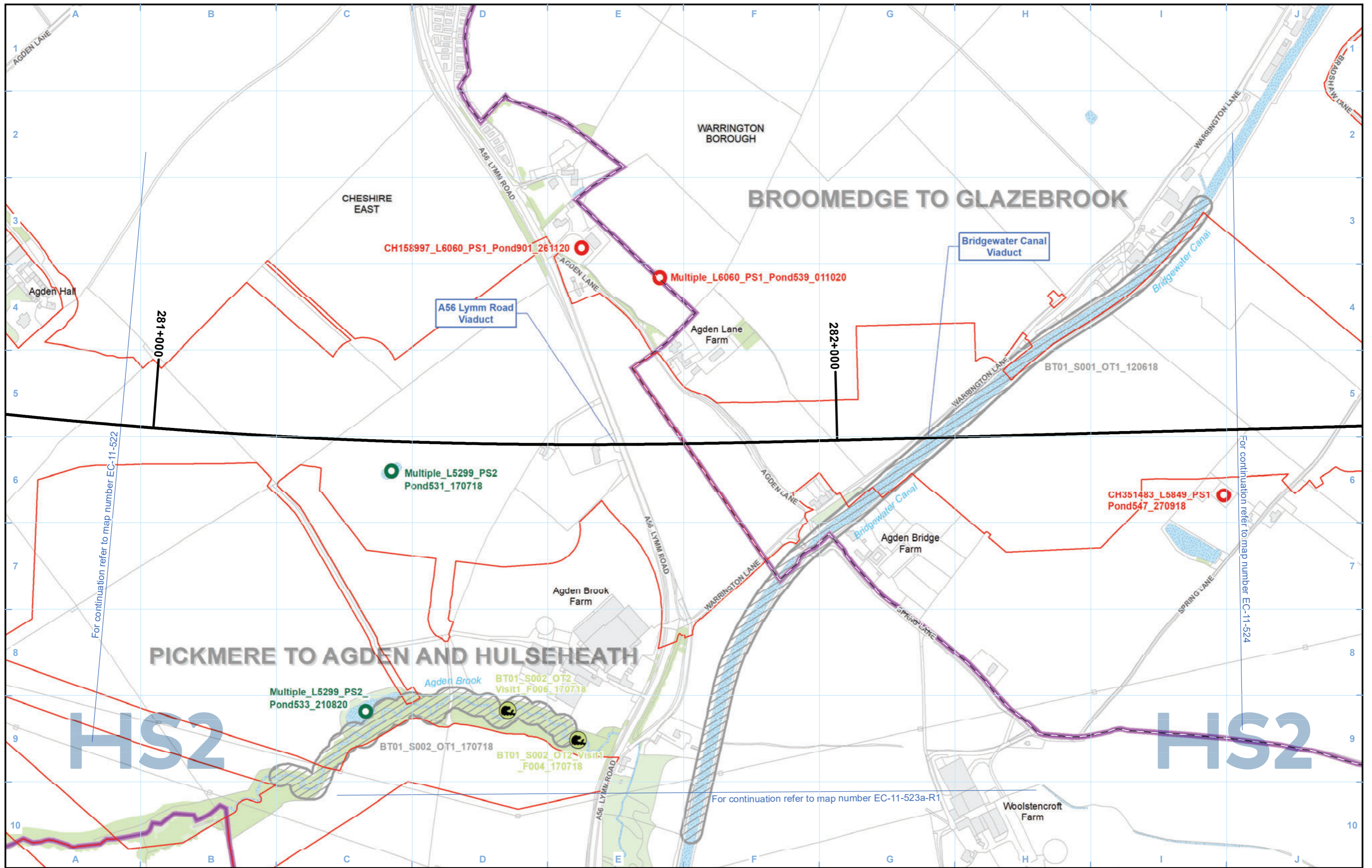
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**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Map Number: EC-11-523a

Map Name: Other Protected and Notable Species (1)

Community Area MA03: Pickmere to Agden and Hulseheath

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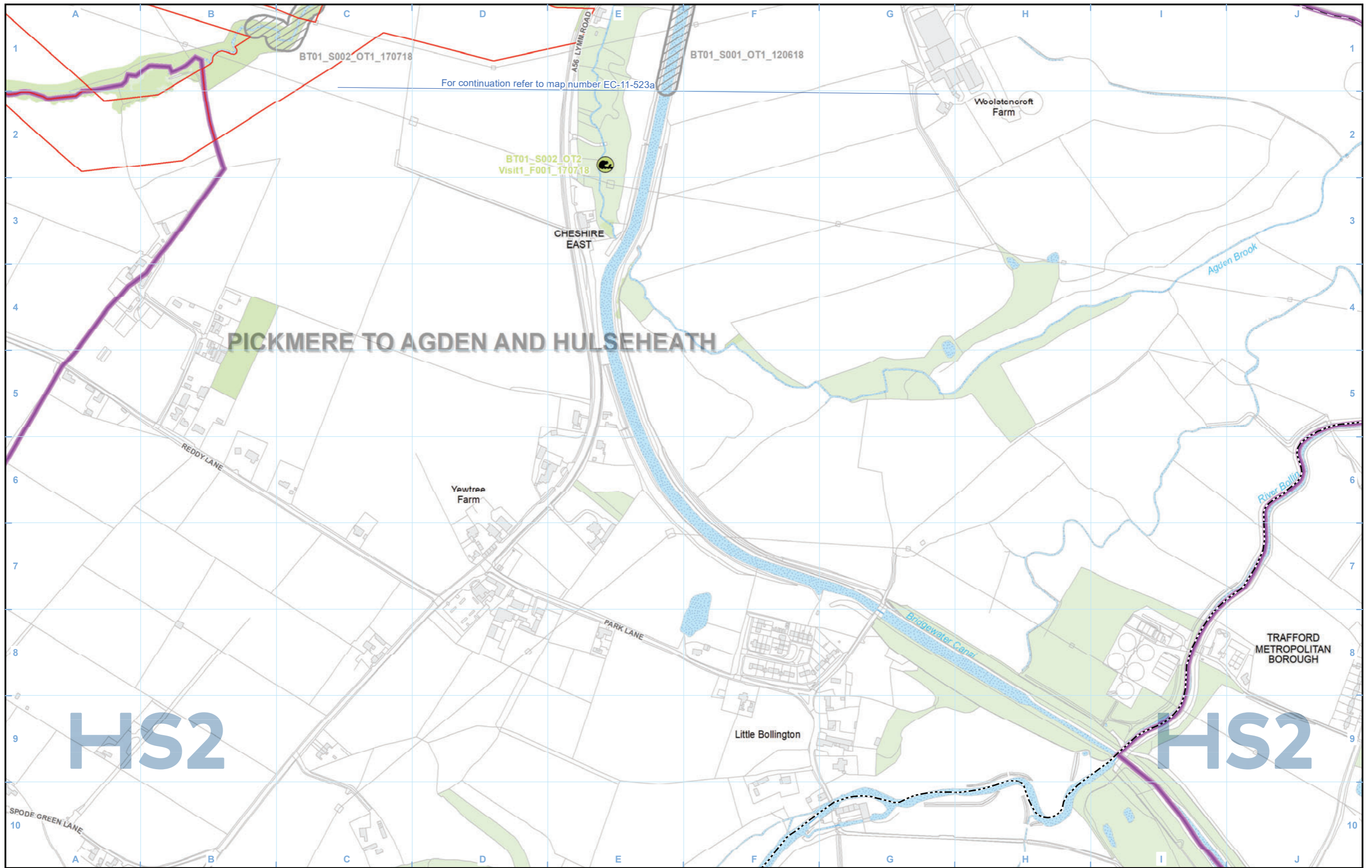
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Date: 03/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



PICKMERE TO AGDEN AND HULSEHEATH

HS2

HS2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
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- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
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- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
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  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number **EC-11-523a-R1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA03:  
Pickmere to Agden and Hulseheath

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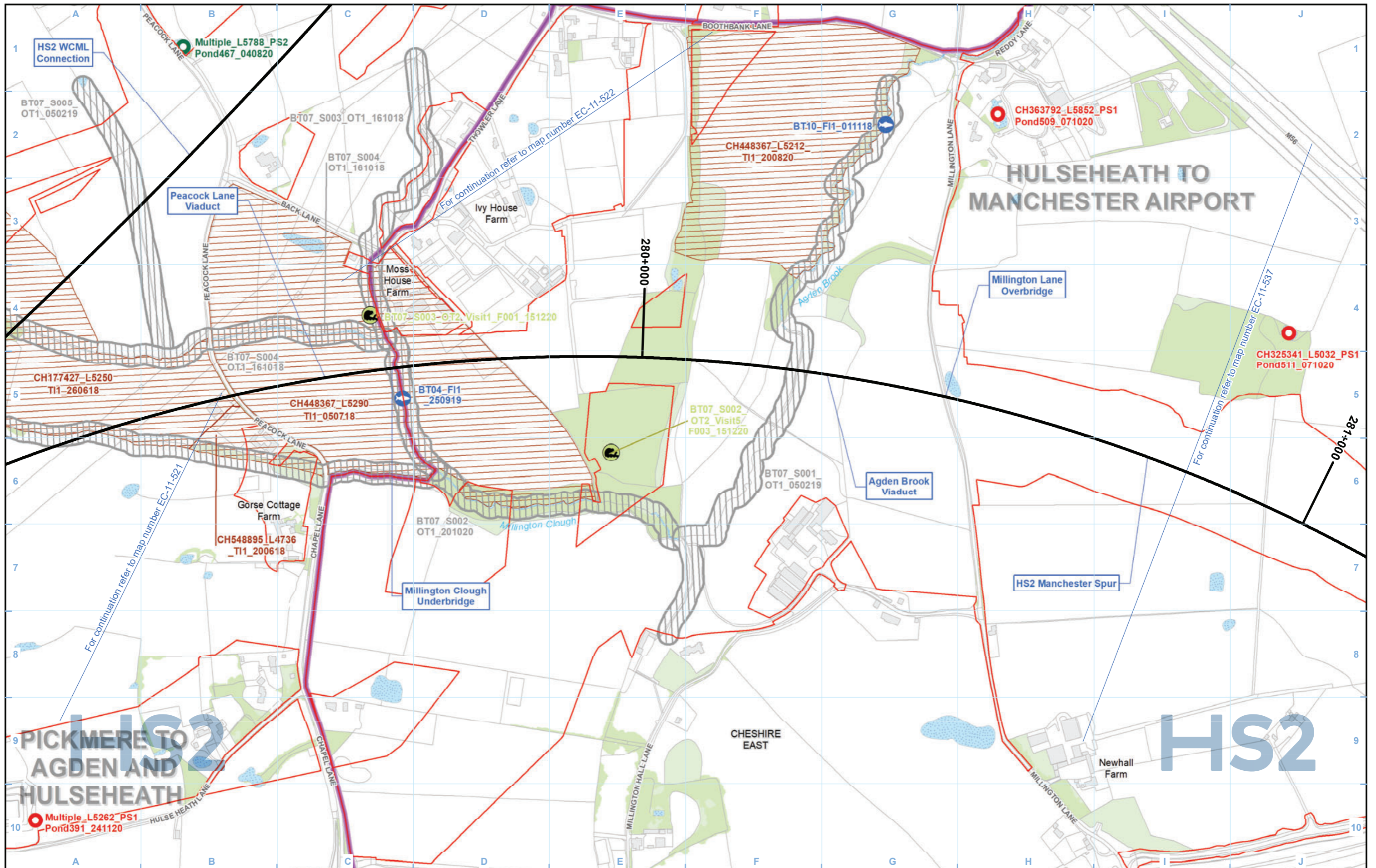
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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number: EC-11-536a

Map Name: Other Protected and Notable Species (1)

Community Area MA03: Pickmere to Agden and Hulseheath

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Doc Number: 2DE01-MWJ-EV-MAP-M000-001416-P01

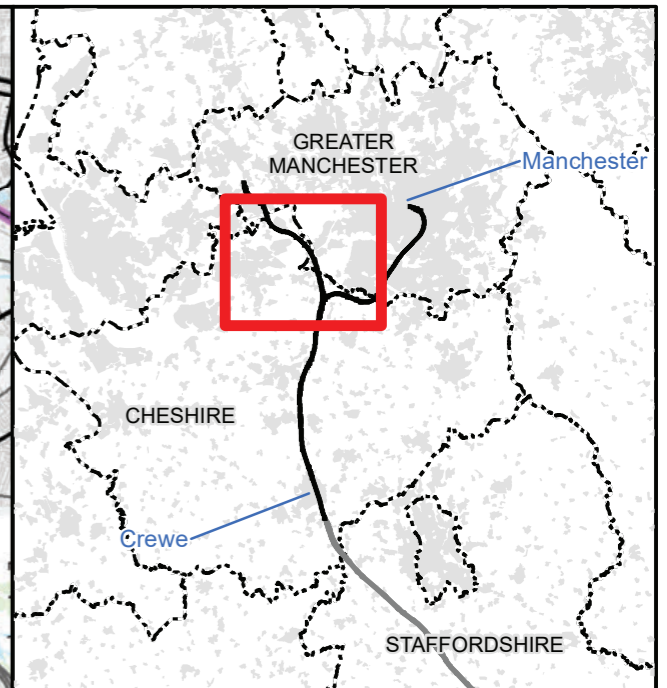
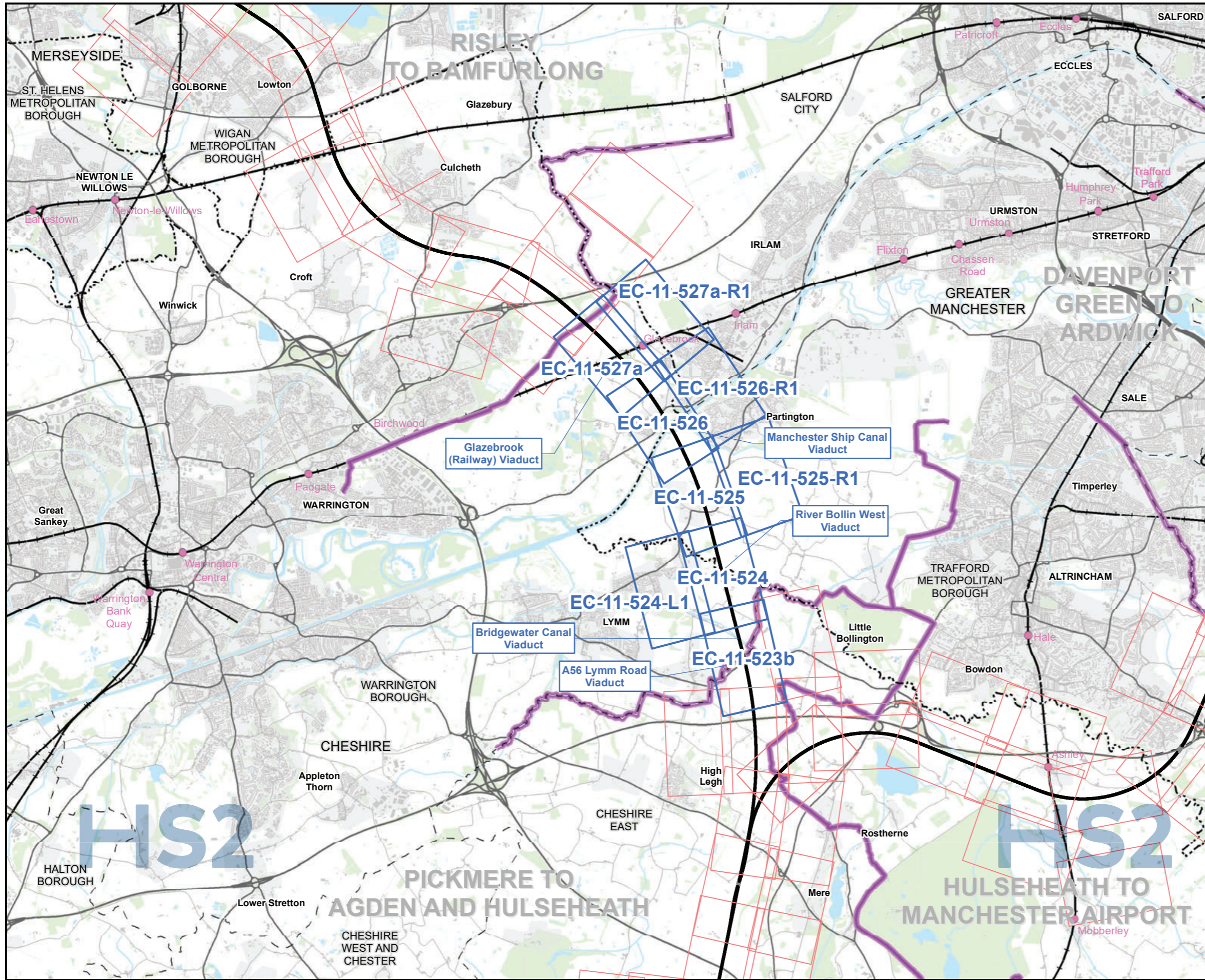
Date: 03/09/21

Scale at A3: 1:5,000

Metres

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**Map Series Information:**

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number EC-11-INDEX-MA04

Map Name  
**Index Map of:  
 Other Protected and Notable  
 Species (1)**

Community Area MA04:  
 Broomedged to Glazebrook

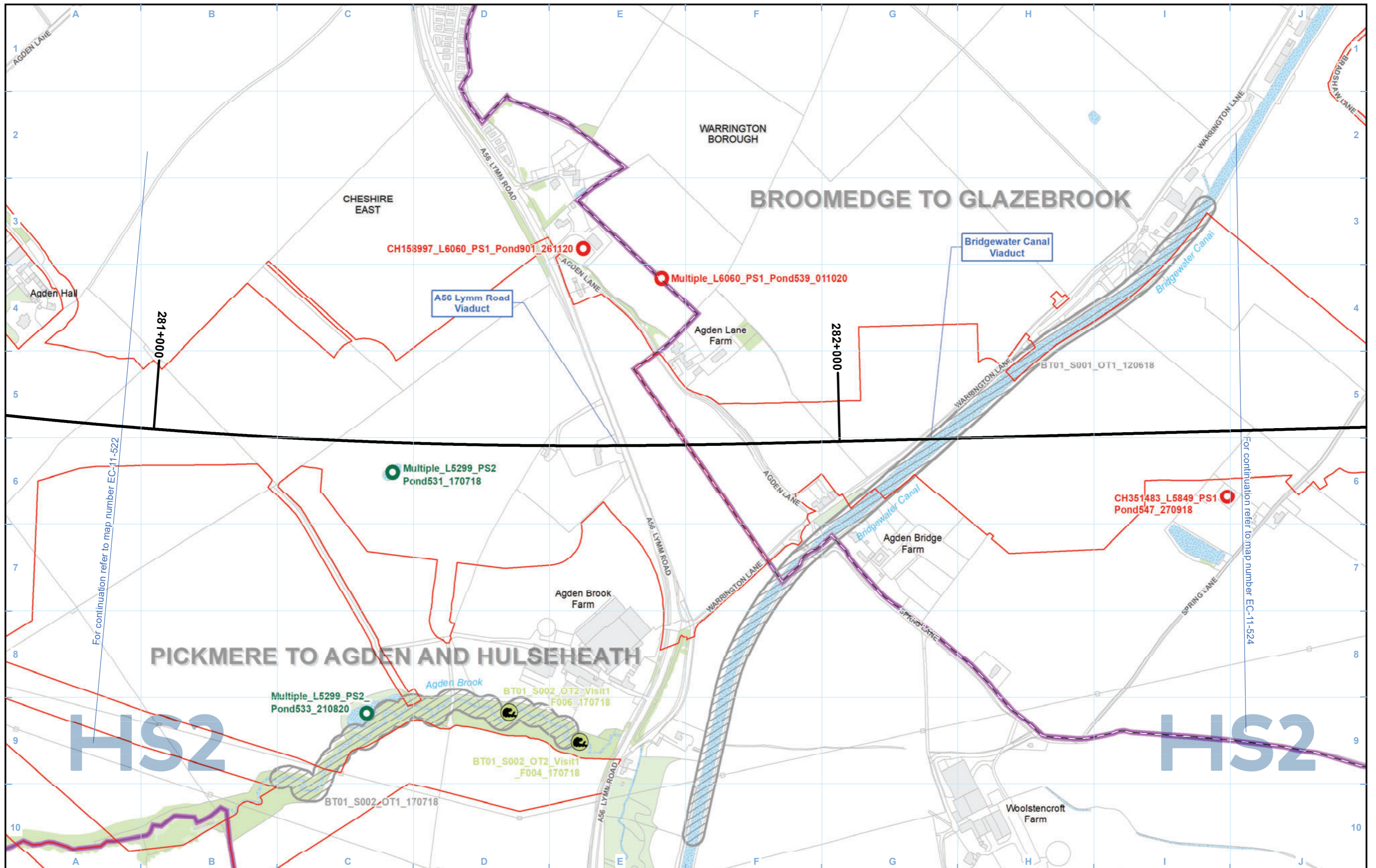
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001442-P01 Date: 03/09/21



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Map Number: EC-11-523b

Map Name: Other Protected and Notable Species (1)

Community Area MA04: Broomedge to Glazebrook

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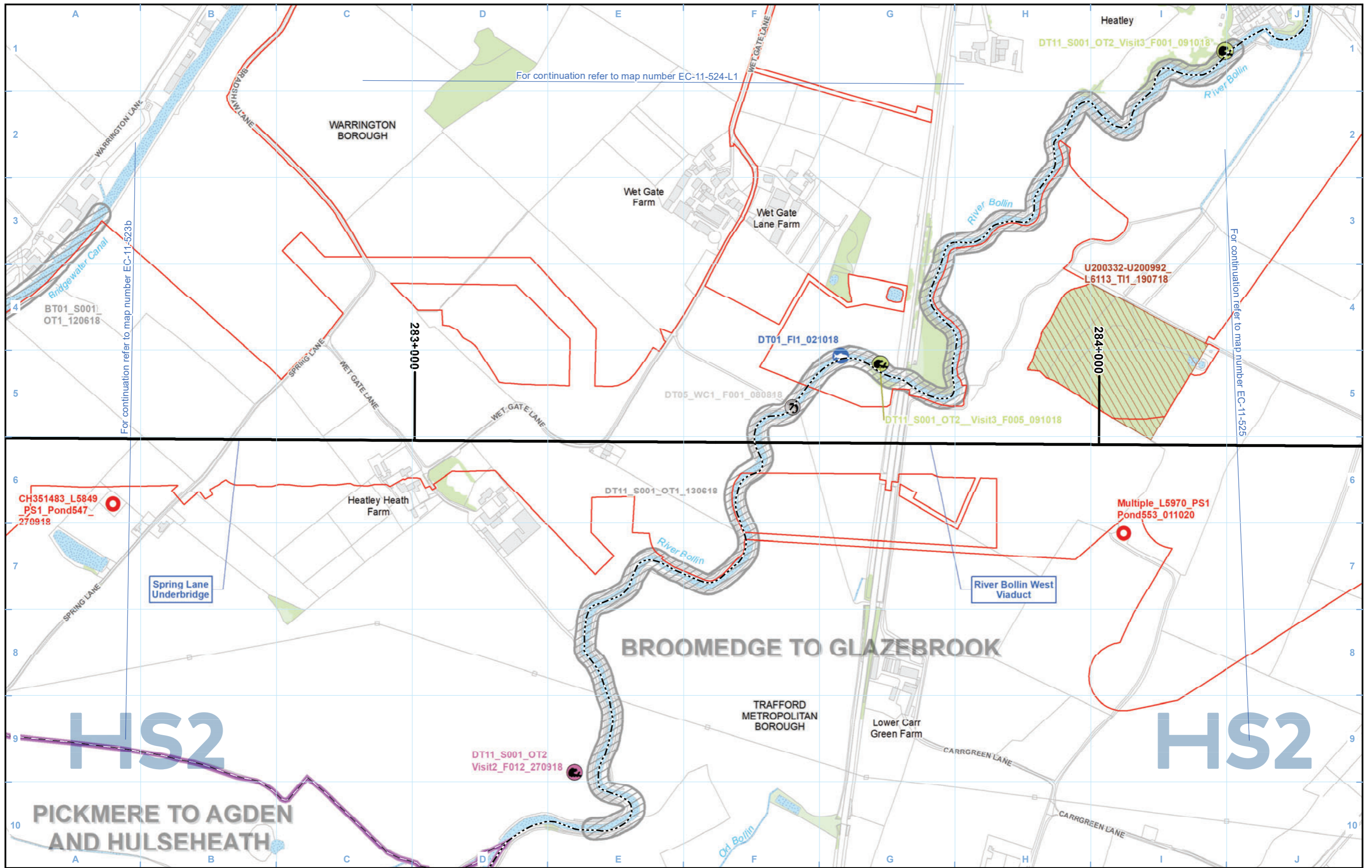
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001402-P01

Date: 03/09/21

Scale at A3: 1:5,000

Metres



Legend	
	Watercourse
	Woodland (verified by survey)
	<b>Otter:</b>
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	<b>White clawed crayfish:</b>
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	<b>Pond survey:</b>
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	<b>Fish:</b>
	Fish survey location
	<b>Terrestrial Invertebrate</b>
	Terrestrial invertebrate survey extent

Map Number	EC-11-524
Map Name	Other Protected and Notable Species (1)
	Community Area MA04: Broomedge to Glazebrook

**HS2**

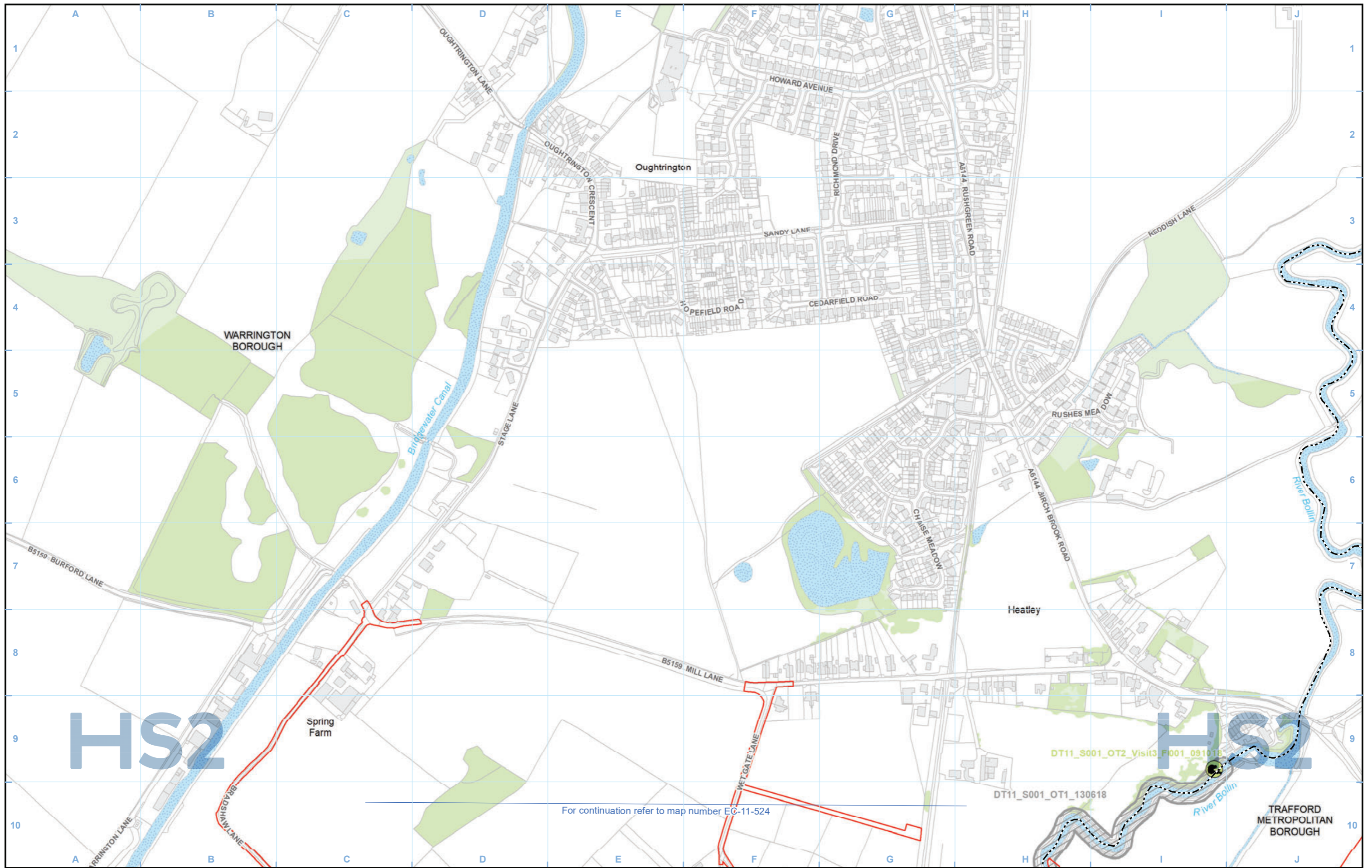
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001403-P01

Scale at A3: 1:5,000

Date: 03/09/21



For continuation refer to map number EC-11-524

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number **EC-11-524-L1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA04:  
Broomedged to Glazebrook

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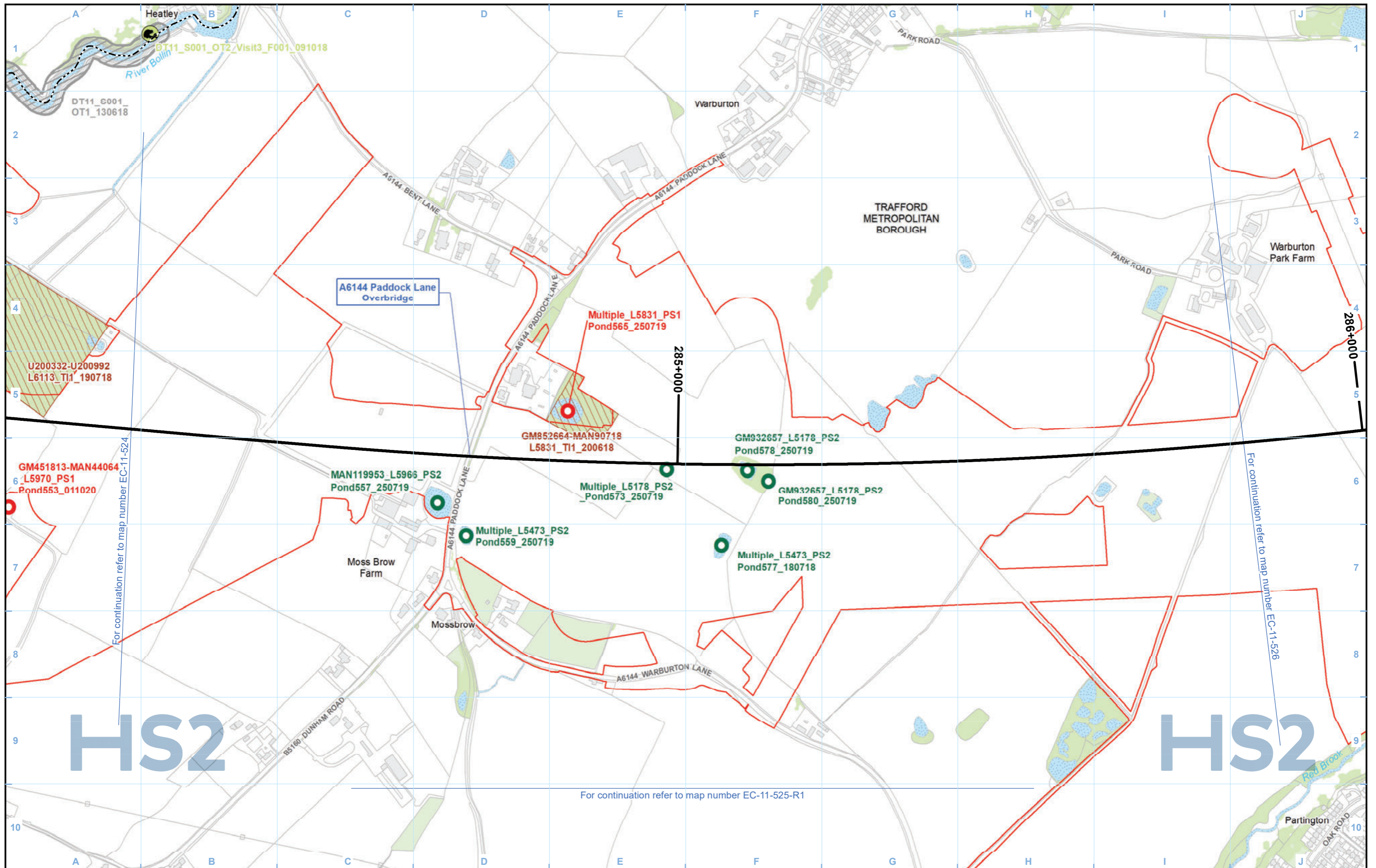
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003425-P01

Date: 03/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Map Number: EC-11-525

Map Name: Other Protected and Notable Species (1)

Community Area MA04: Broomedje to Glazebrook

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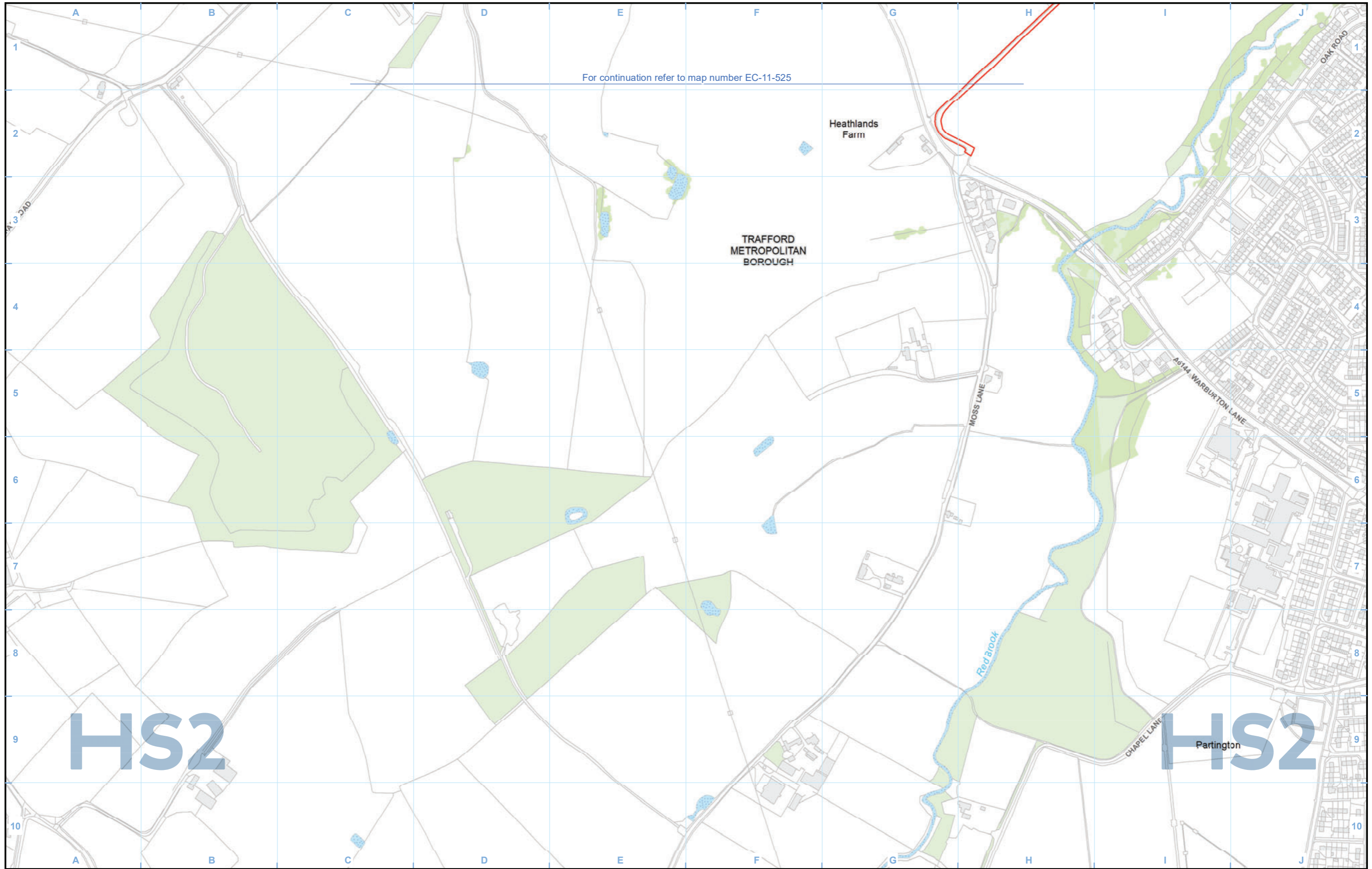
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001404-P01

Date: 03/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



For continuation refer to map number EC-11-525

HS2

Partington HS2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number: EC-11-525-R1

Map Name: Other Protected and Notable Species (1)

Community Area MA04: Broomedged to Glazebrook

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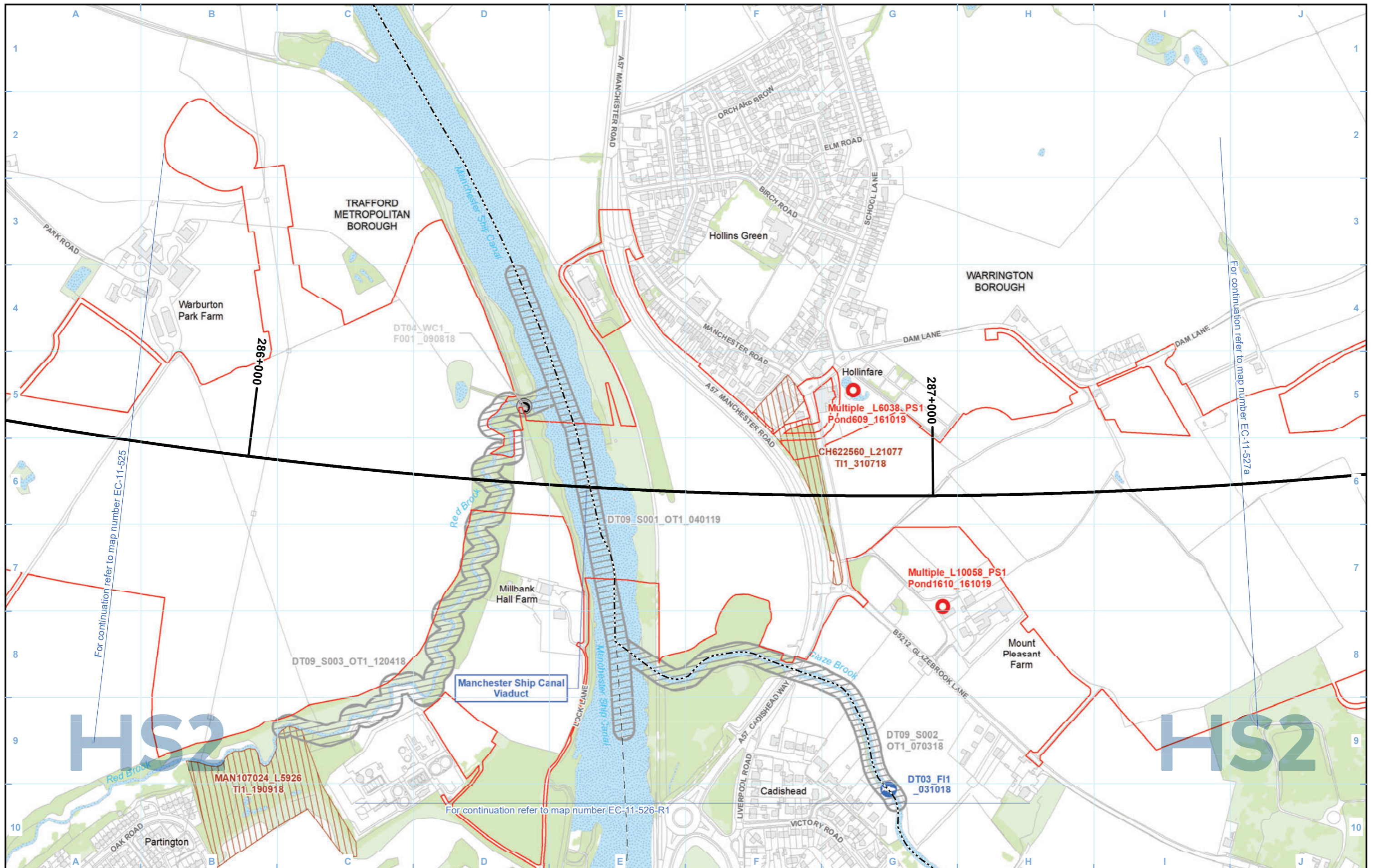
Doc Number: 2DE01-MWJ-EV-MAP-M000-003426-P01

Date: 03/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres





Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-526
Map Name	Other Protected and Notable Species (1)
Community Area MA04: Broomedgely to Glazebrook	

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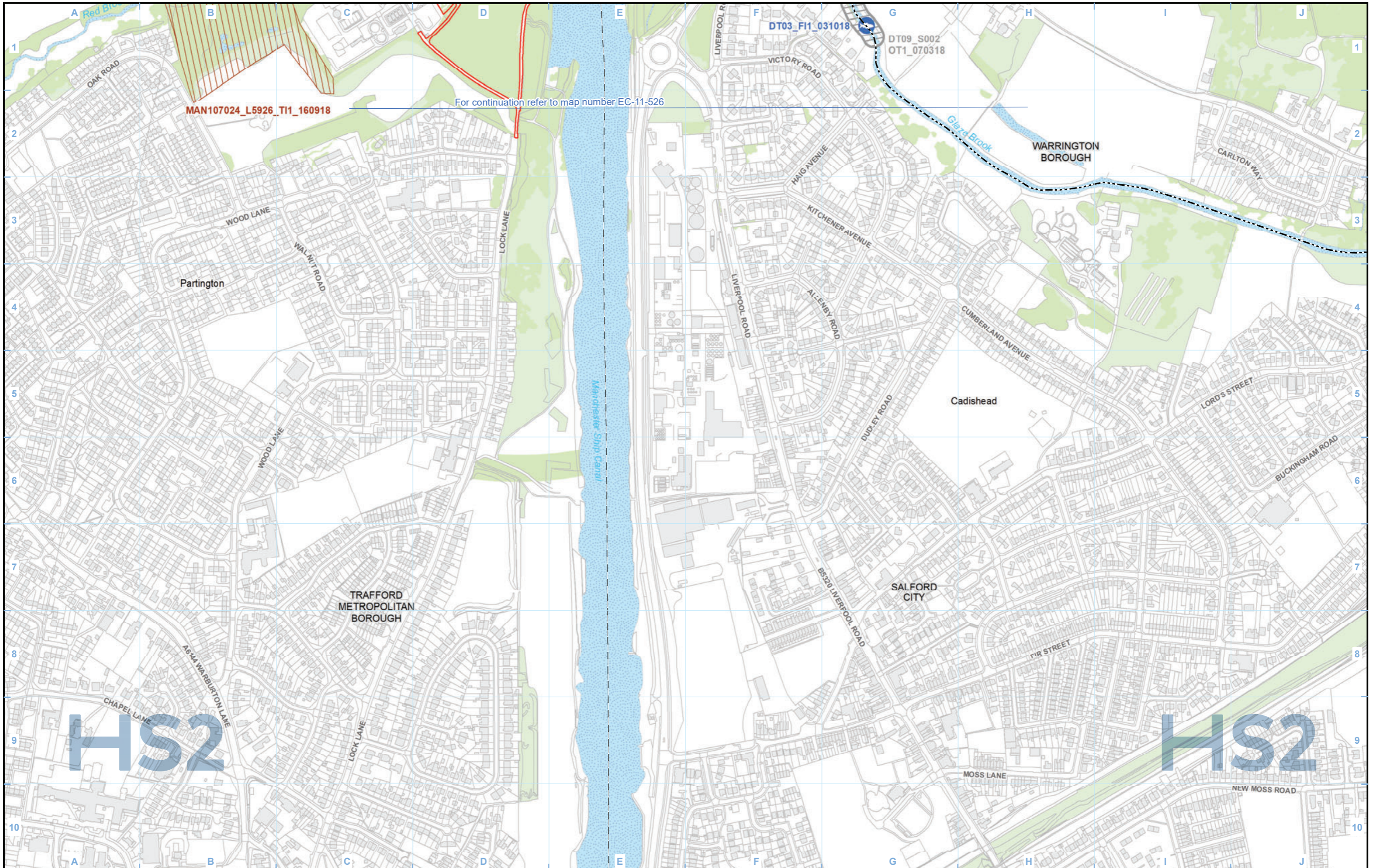
Doc Number: 2DE01-MWJ-EV-MAP-M000-001405-P01

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0 50 100 150 200 Metres

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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate survey extent

Map Number **EC-11-526-R1**

Map Name **Other Protected and Notable Species (1)**

Community Area MA04:  
Broomedged to Glazebrook

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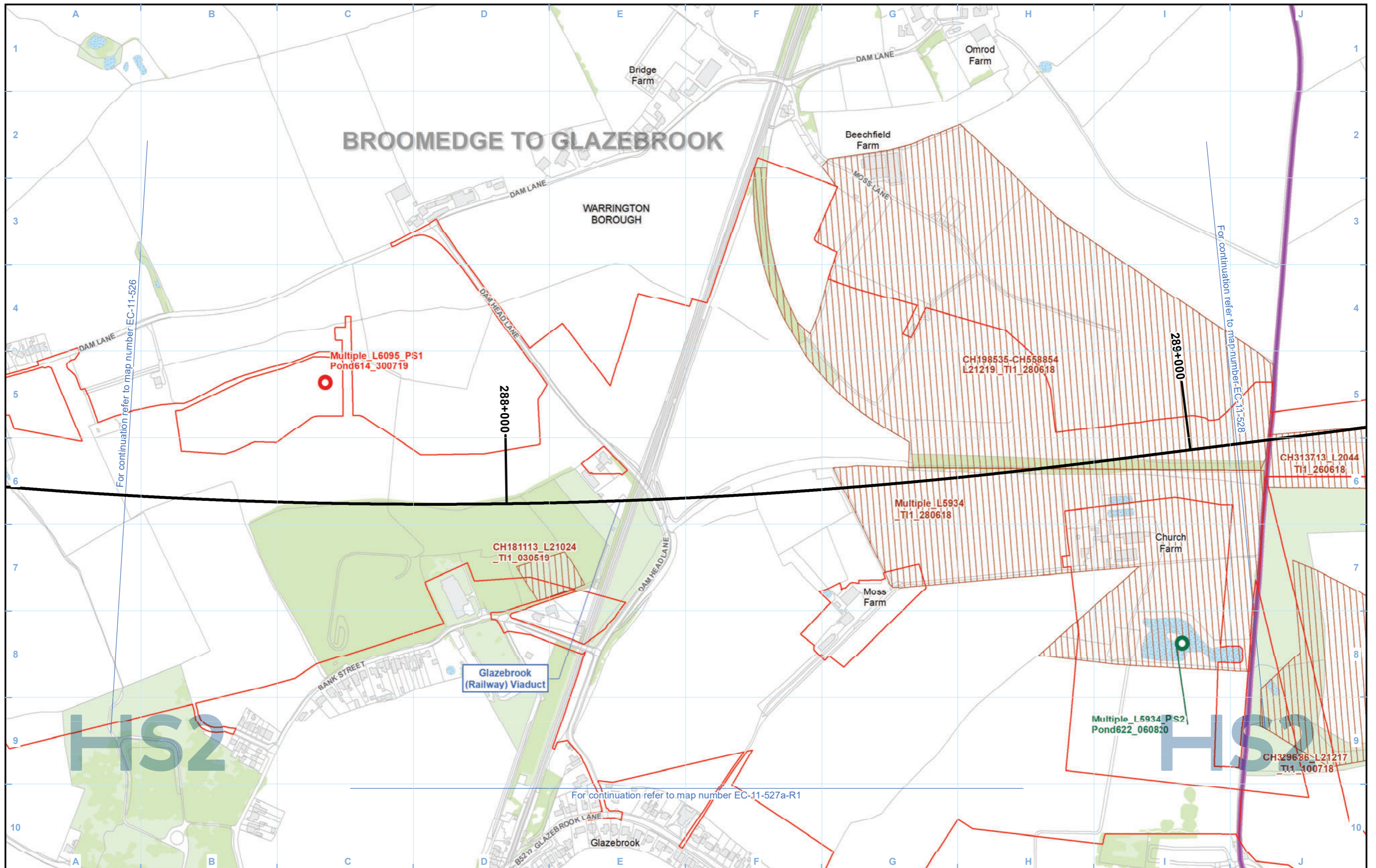
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Date: 03/09/21

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0 50 100 150 200 Metres



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-527a
Map Name	Other Protected and Notable Species (1)
Community Area MA04: Broomedge to Glazebrook	

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Scale at A3: 1:5,000

Metres

Date: 03/09/21



For continuation refer to map number EC-11-527a

CH329686 L21217  
\_T11\_100718

# BROOMEDGE TO GLAZEBROOK

# HS2

# HS2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)
  - Otter:**
    - Active otter holt
    - Potential otter holt
    - Suitable habitat for otter
  - White clawed crayfish:**
    - Manual search and/or trapping conducted and presence confirmed
    - Manual search and/or trapping conducted and assumed absent
    - Site identified as potentially suitable but no access available
  - Pond survey:**
    - Pond survey - national pond survey
    - Pond survey - PSYM
    - Pond survey - rapid assessment method

- Fish:**
    - Fish survey location
    - Terrestrial Invertebrate**
      - Terrestrial invertebrate survey extent
- Map Number: EC-11-527a-R1
- Map Name: Other Protected and Notable Species (1)
- Community Area MA04:  
Broomedge to Glazebrook

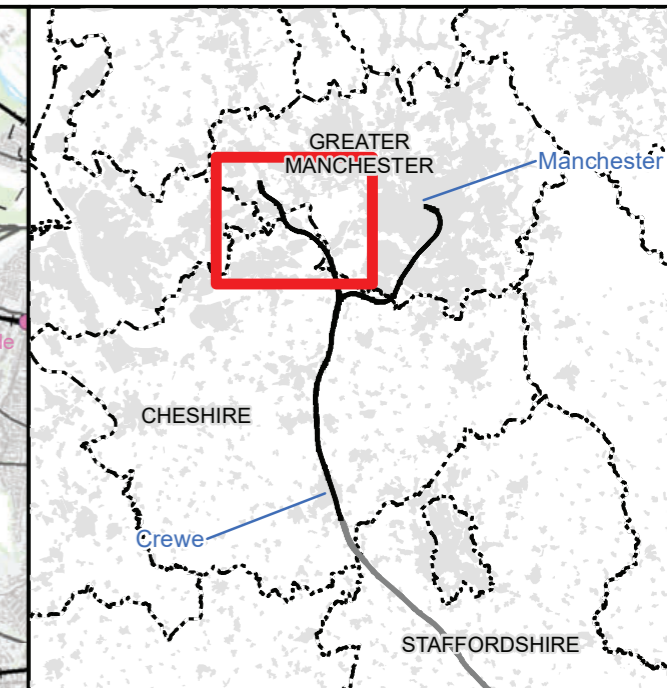
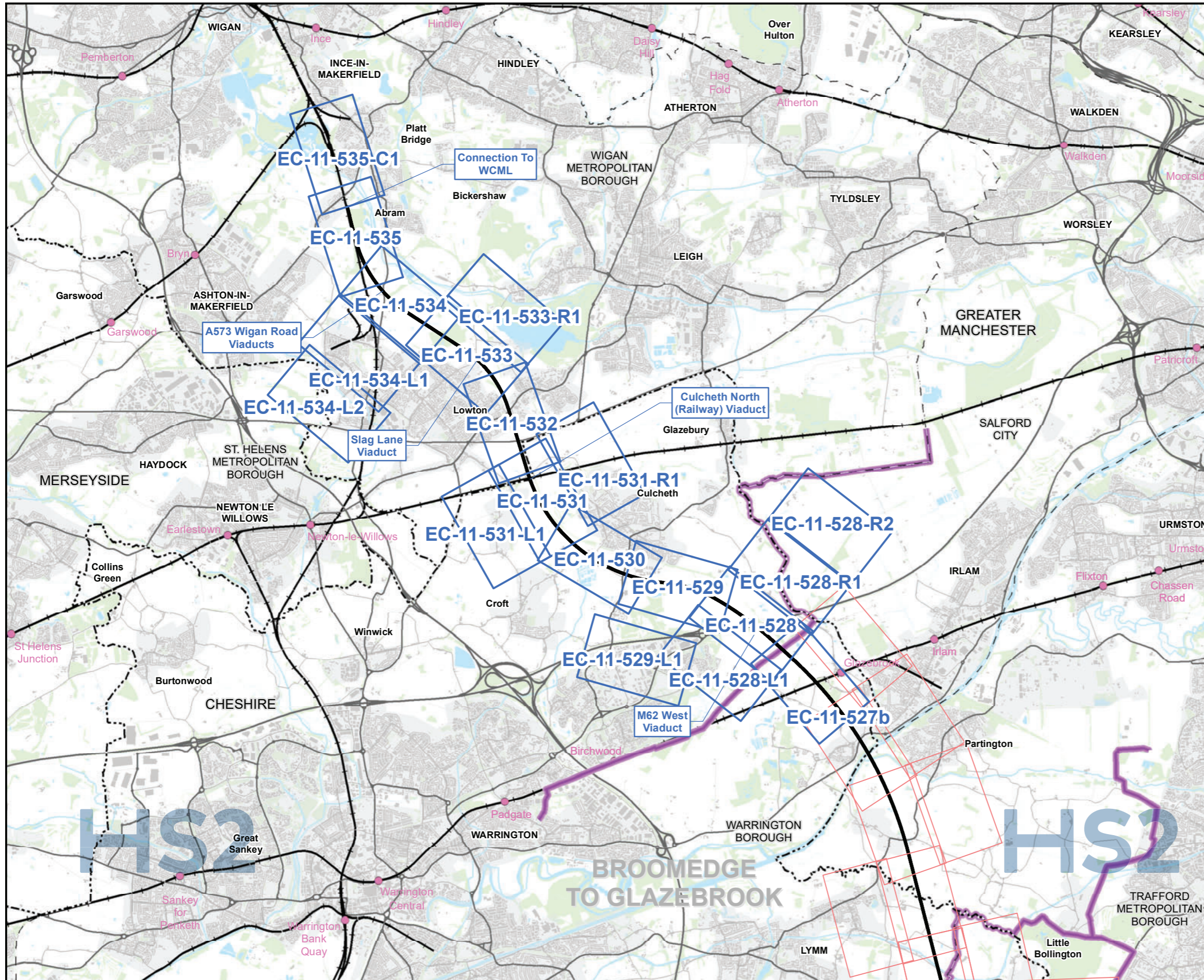
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003428-P01 Date: 03/09/21



**Map Series Information:**

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**


Map Number	EC-11-INDEX-MA05
Map Name	Index Map of: Other Protected and Notable Species (1)
	Community Area MA05: Risley to Bamfurlong

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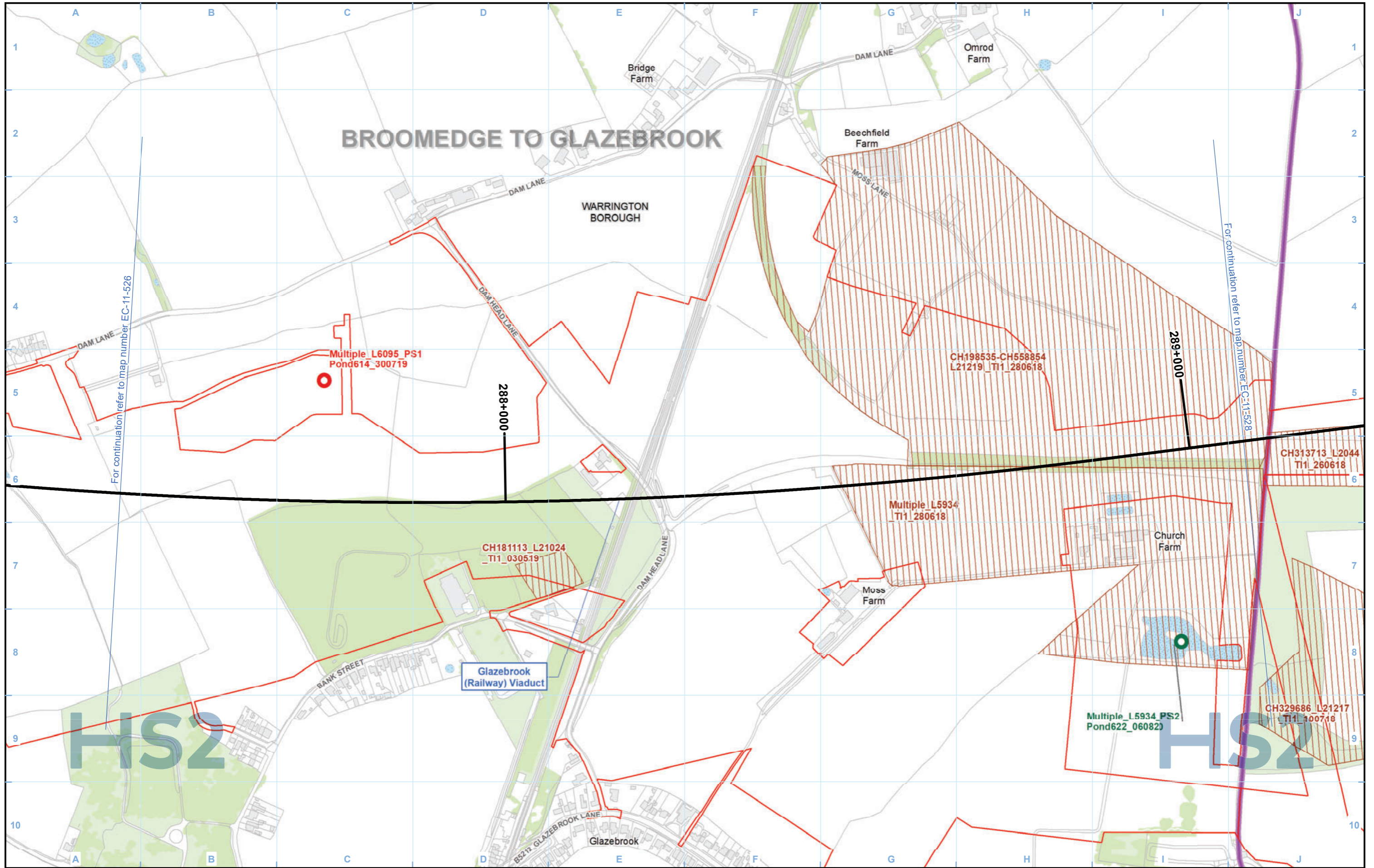
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001443-P01

Date: 07/09/21

Note: Not all data layers in the legend are represented on every map.



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate survey extent

Map Number	EC-11-527b
Map Name	Other Protected and Notable Species (1)
Community Area MA05: Risley to Bamfurlong	

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# BROOMEDGE TO GLAZEBROOK

For continuation refer to map number EC-11-528-L1

WARRINGTON BOROUGH

M62 West viaduct

DT15\_S011\_OT1  
DT15\_S012\_OT1  
DT15\_S007\_OT1\_081220  
DT15\_S010\_OT1

DT15\_S009\_OT1

DT15\_S008\_OT1

U207207\_L4856\_PS1  
PondR95\_290920

CH414713\_L21396  
TI1\_260618

CH121280-CH414713  
L4513\_TI1\_260618

Multiple\_L4513\_PS2  
Pond623\_300719

Multiple\_L4513\_PS2  
Pond624\_300719

CH198535-  
CH558854  
L21219\_TI1  
280618

289+000

For continuation refer to map number EC-11-527b

Multiple\_L5934  
TI1\_280618

CH313713\_L2044  
TI1\_260618

Multiple\_L5934\_PS2  
Pond022\_060820

CH329686\_L21217  
TI1\_100718

# RISLEY TO BAMFURLONG

For continuation refer to map number EC-11-528-R1

# HS2

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial invertebrate: Terrestrial invertebrate survey extent

Map Number	EC-11-528
Map Name	Other Protected and Notable Species (1)
Community Area	Community Area MA05: Risley to Bamfurlong

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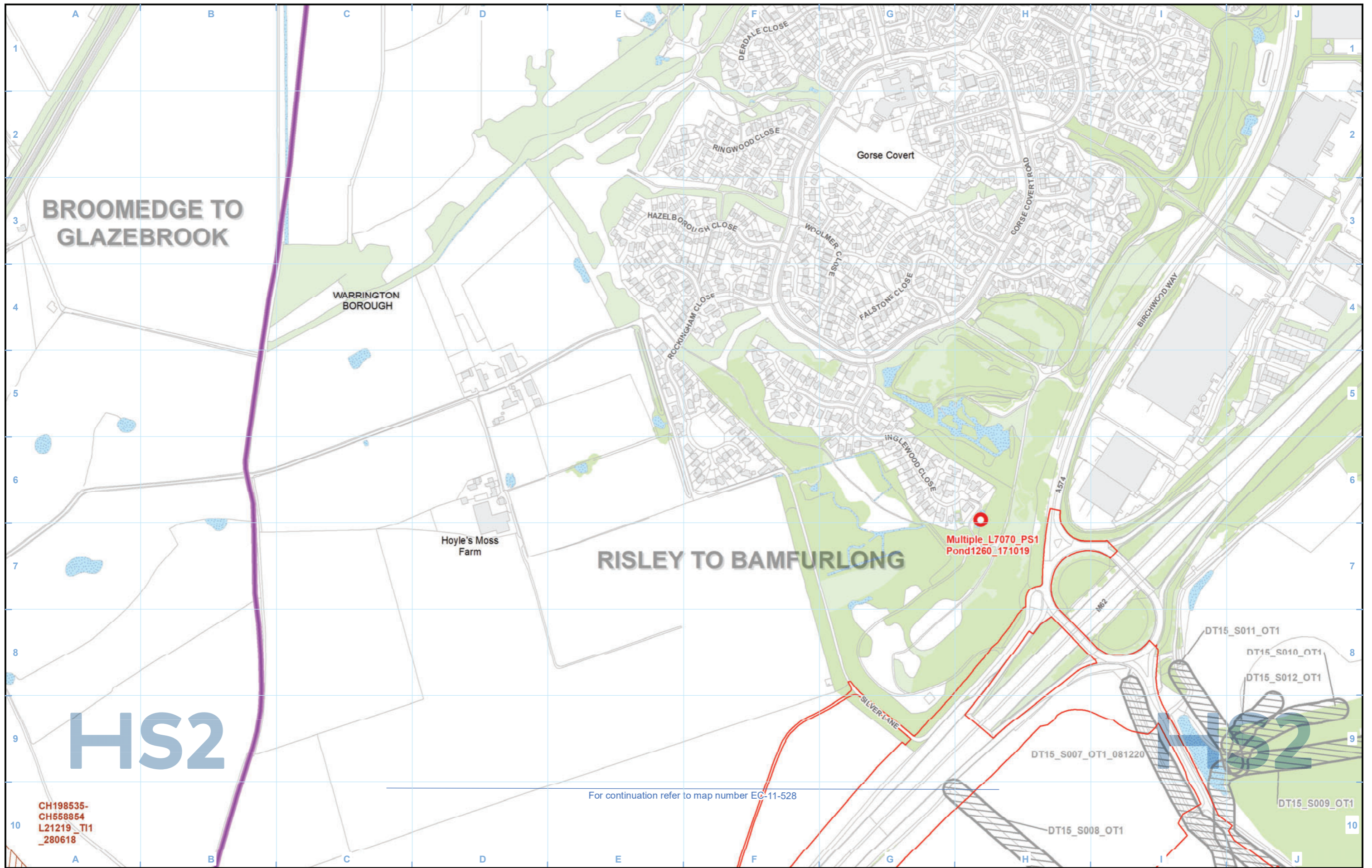
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001408-P01

Scale at A3: 1:5,000

Metres

Date: 07/09/21



**BROOMEDGE TO  
GLAZEBROOK**

**RISLEY TO BAMFURLONG**

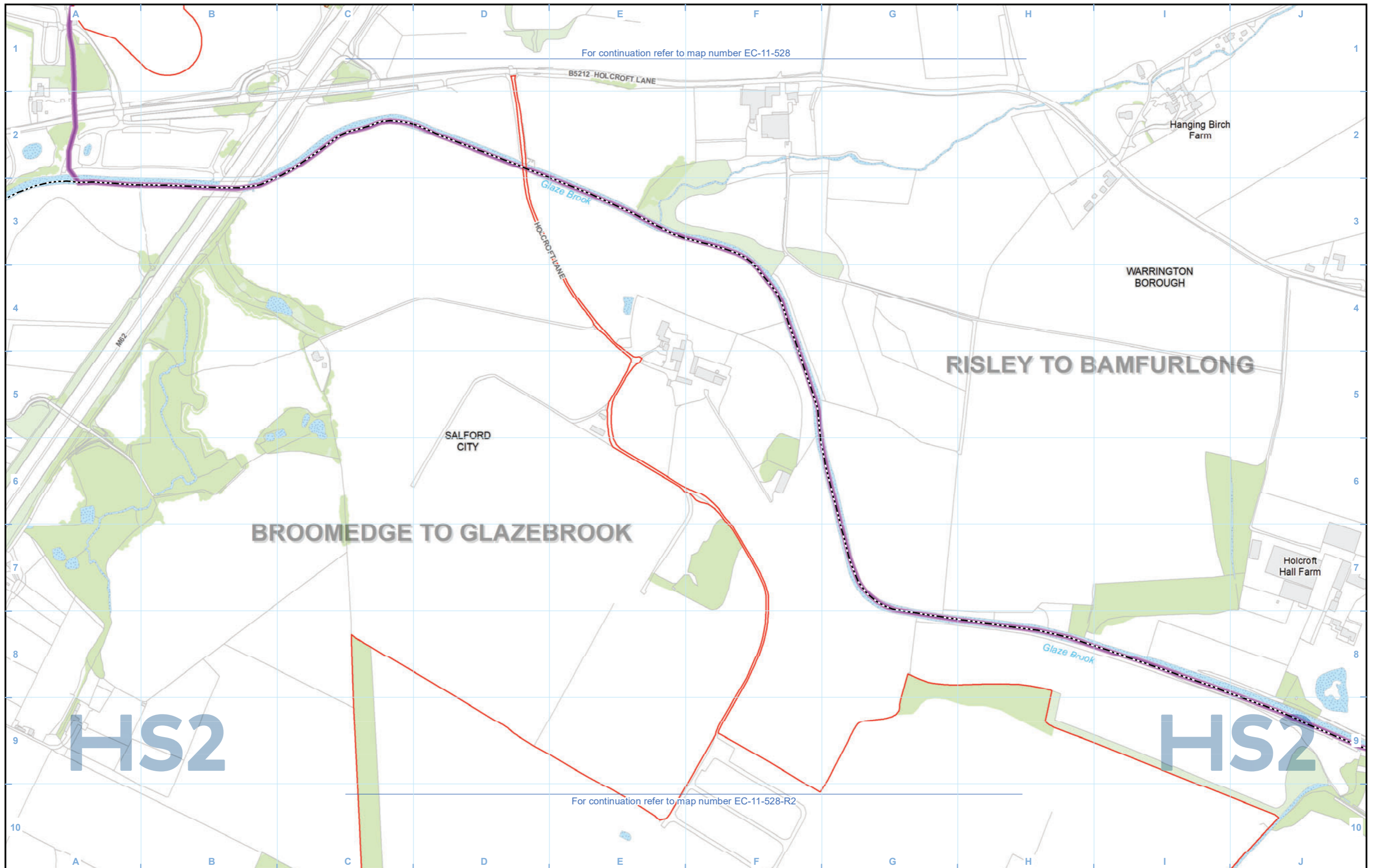
**HS2**

CH198535-  
CH558854  
L21219\_T11  
\_280618

For continuation refer to map number EC-11-528

<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otter holt</li> <li>Potential otter holt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-528-L1				<b>Map Name</b> Other Protected and Notable Species (1)							
Community Area MA05: Risley to Bamfurlong				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190 Doc Number: 2DE01-MWJ-EV-MAP-M000-002858-P01				Scale at A3: 1:5,000 Date: 07/09/21			





For continuation refer to map number EC-11-528

B5212 HOLCROFT LANE

Glaze Brook

HOLCROFT LANE

Hanging Birch Farm

WARRINGTON BOROUGH

RISLEY TO BAMFURLONG

SALFORD CITY

BROOMEDGE TO GLAZEBROOK

Holcroft Hall Farm

Glaze Brook

HS2

HS2

For continuation refer to map number EC-11-528-R2

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-528-R1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 			
<b>Map Name</b> Other Protected and Notable Species (1)		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003429-P01		<b>Date:</b> 07/09/21			
<b>Community Area MA05:</b> Risley to Bamfurlong									



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Otter: Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial Invertebrate: Terrestrial invertebrate survey extent

Map Number	EC-11-528-R2
Map Name	Other Protected and Notable Species (1)
	Community Area MA05: Risley to Bamfurlong

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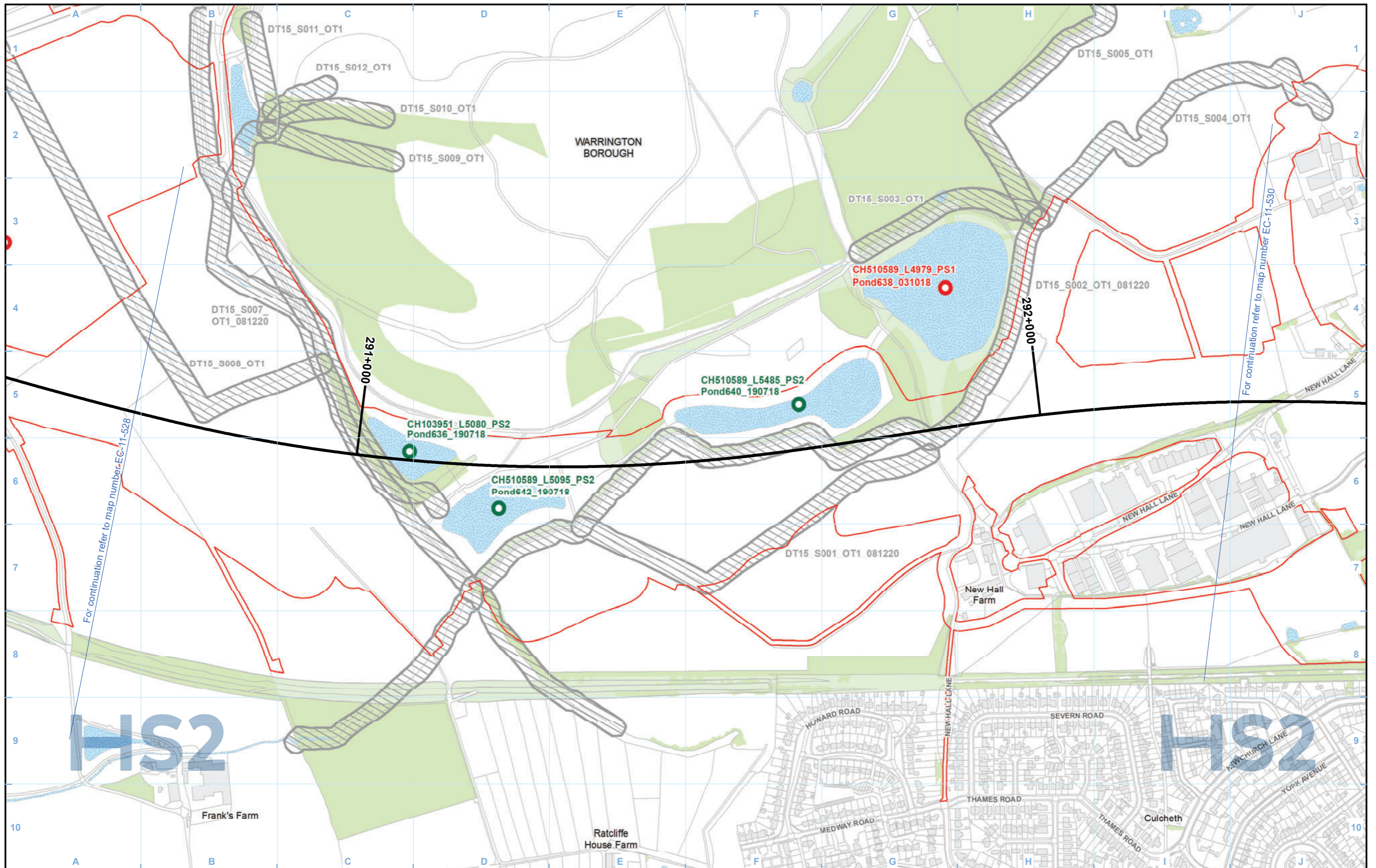
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0 50 100 150 200 Metres

Doc Number: 2DE01-MWJ-EV-MAP-M000-003430-P01 Date: 07/09/21



Legend	
Route in tunnel	Watercourse
Route on surface	Woodland (verified by survey)
Depot, station, headhouse or portal building	Active otter holt
Land potentially required during construction	Potential otter holt
Community area boundary	Suitable habitat for otter
County boundary	Manual search and/or trapping conducted and presence confirmed
District/Borough boundary	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate survey extent

Map Number	EC-11-529
Map Name	Other Protected and Notable Species (1)
Community Area MA05: Risley to Bamfurlong	

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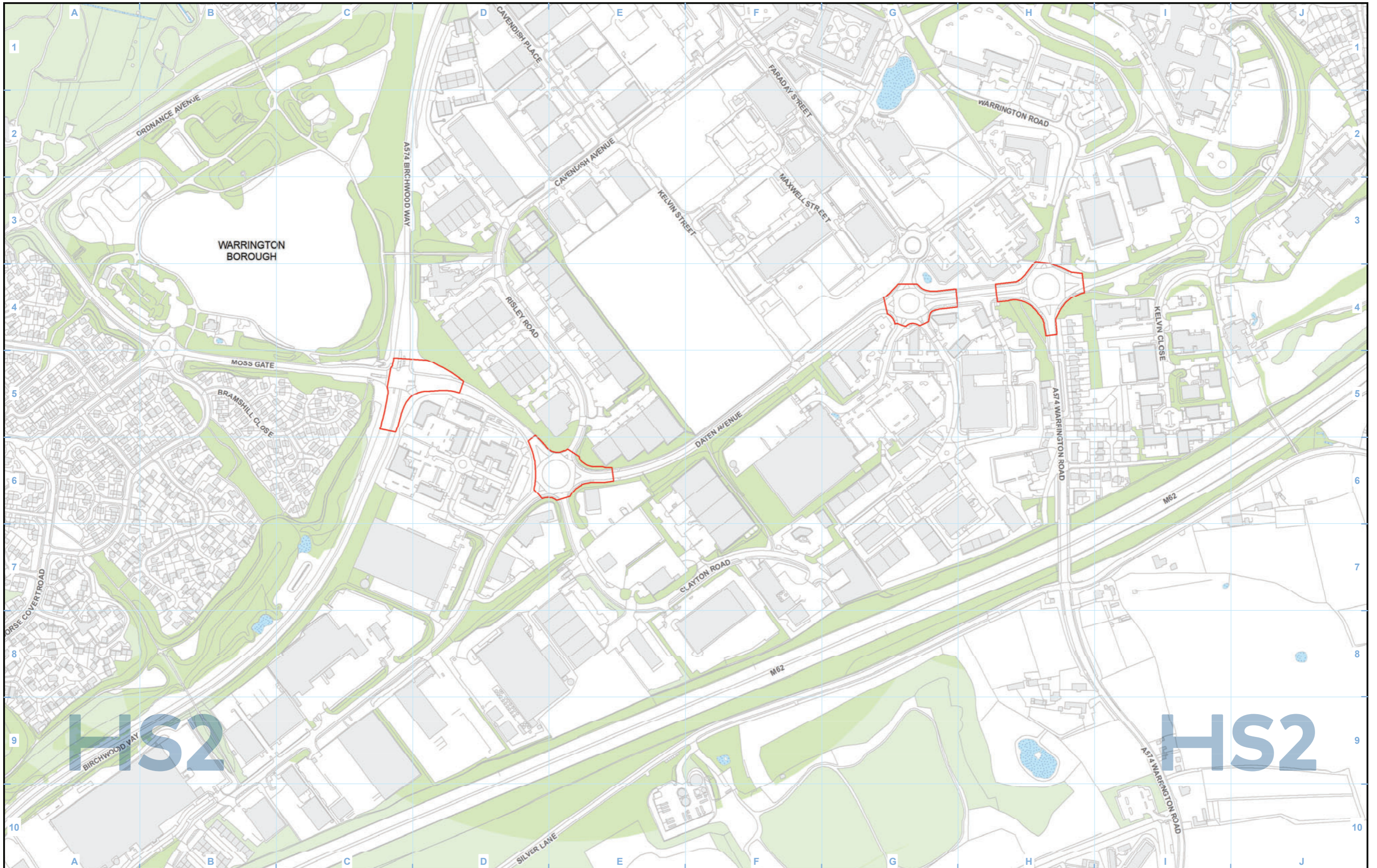
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Metres

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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)

- Otter: Active otter holt
- Otter: Potential otter holt
- Otter: Suitable habitat for otter

- White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
- White clawed crayfish: Manual search and/or trapping conducted and assumed absent
- White clawed crayfish: Site identified as potentially suitable but no access available

- Pond survey: Pond survey - national pond survey
- Pond survey: Pond survey - PSYM
- Pond survey: Pond survey - rapid assessment method

- Fish: Fish survey location
- Terrestrial Invertebrate: Terrestrial invertebrate survey extent

- Other Protected and Notable Species (1)

Map Number: EC-11-529-L1

Map Name: Other Protected and Notable Species (1)

Community Area MA05: Risley to Bamfurlong

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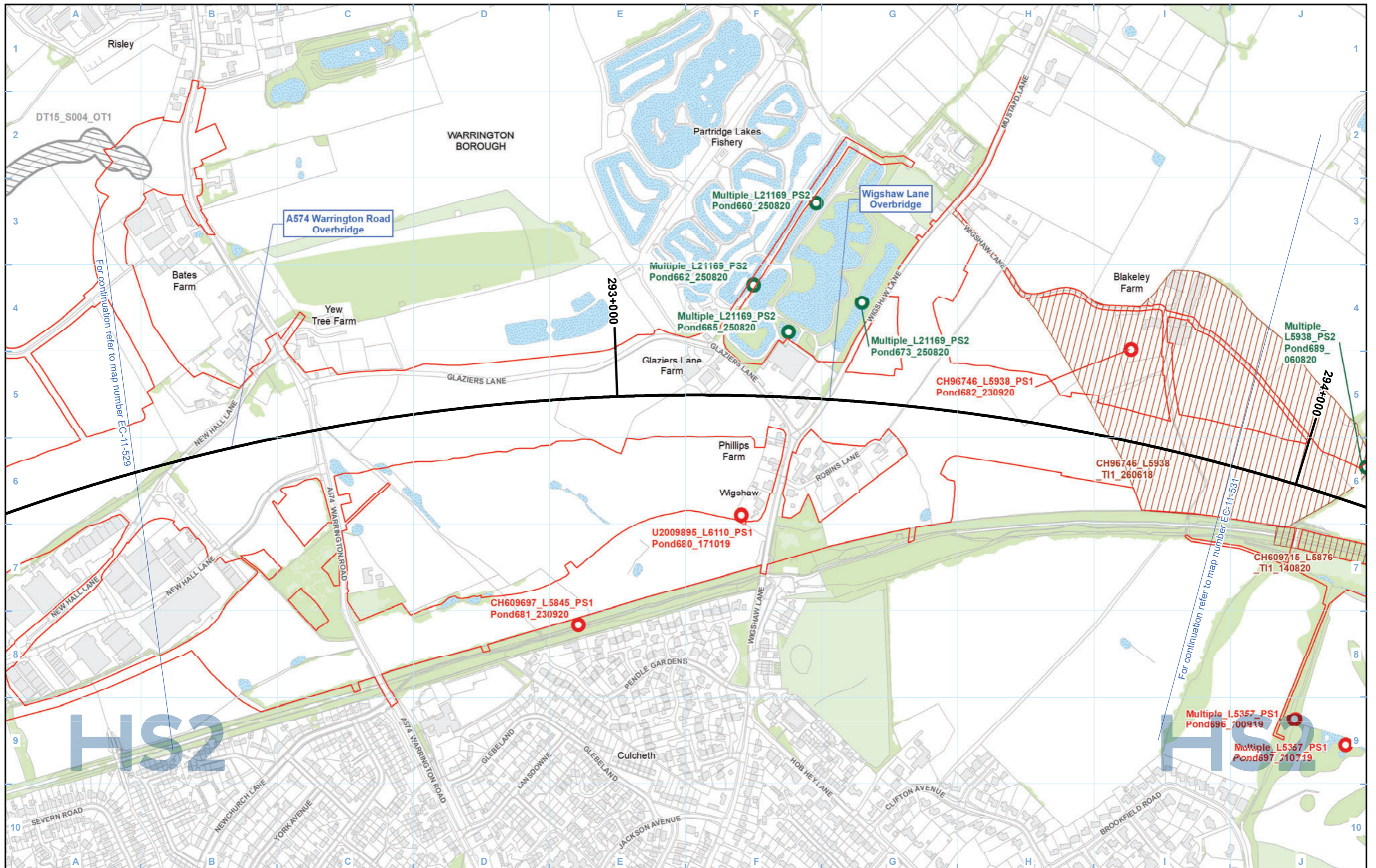
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003431-P01

Date: 07/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Map Number: EC-11-530

Map Name: Other Protected and Notable Species (1)

Community Area MA05: Risley to Bamfurlong

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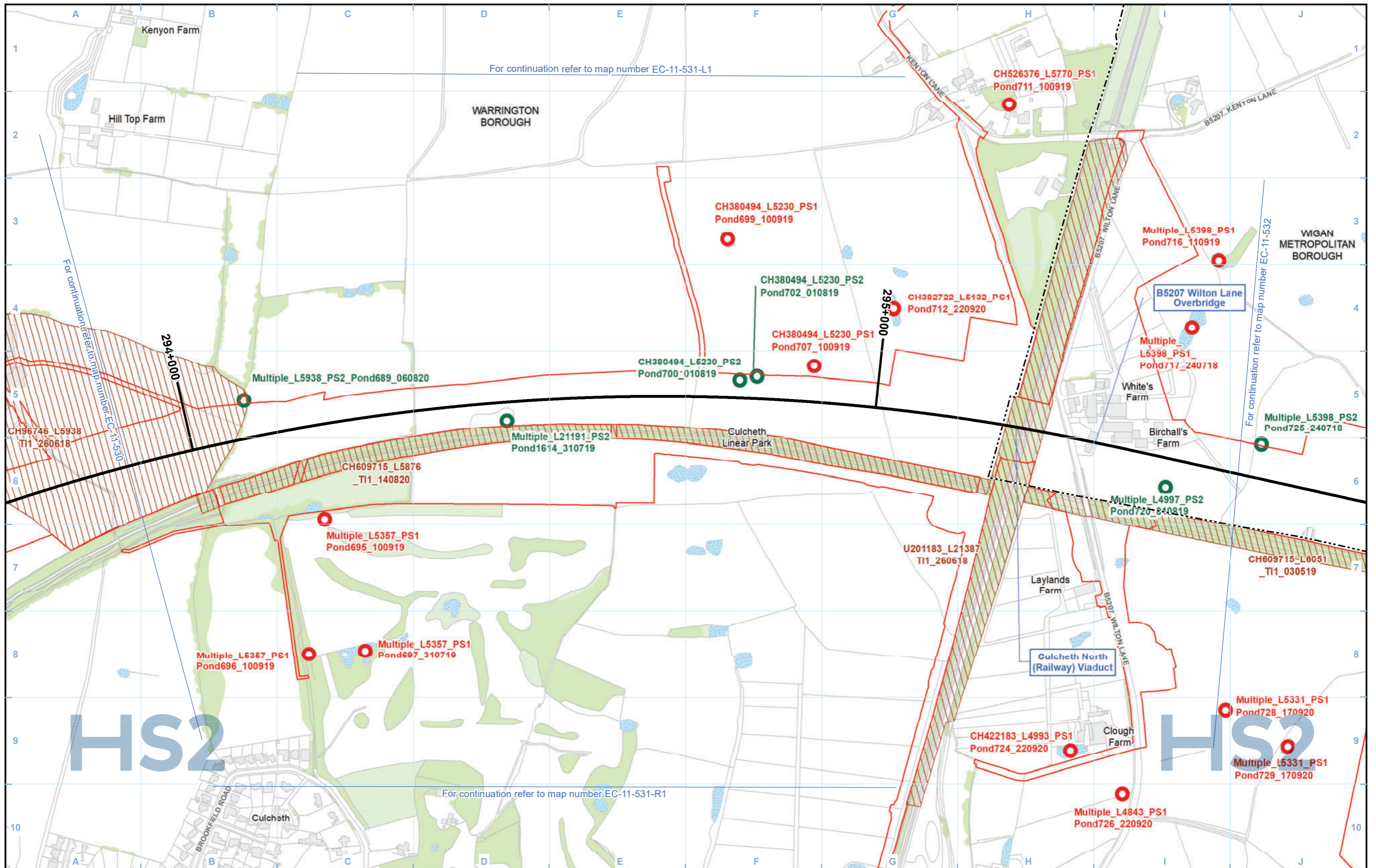
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Date: 07/09/21

Scale at A3: 1:5,000

Metres



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-531
Map Name	Other Protected and Notable Species (1)
Community Area MA05: Risley to Bamfurlong	

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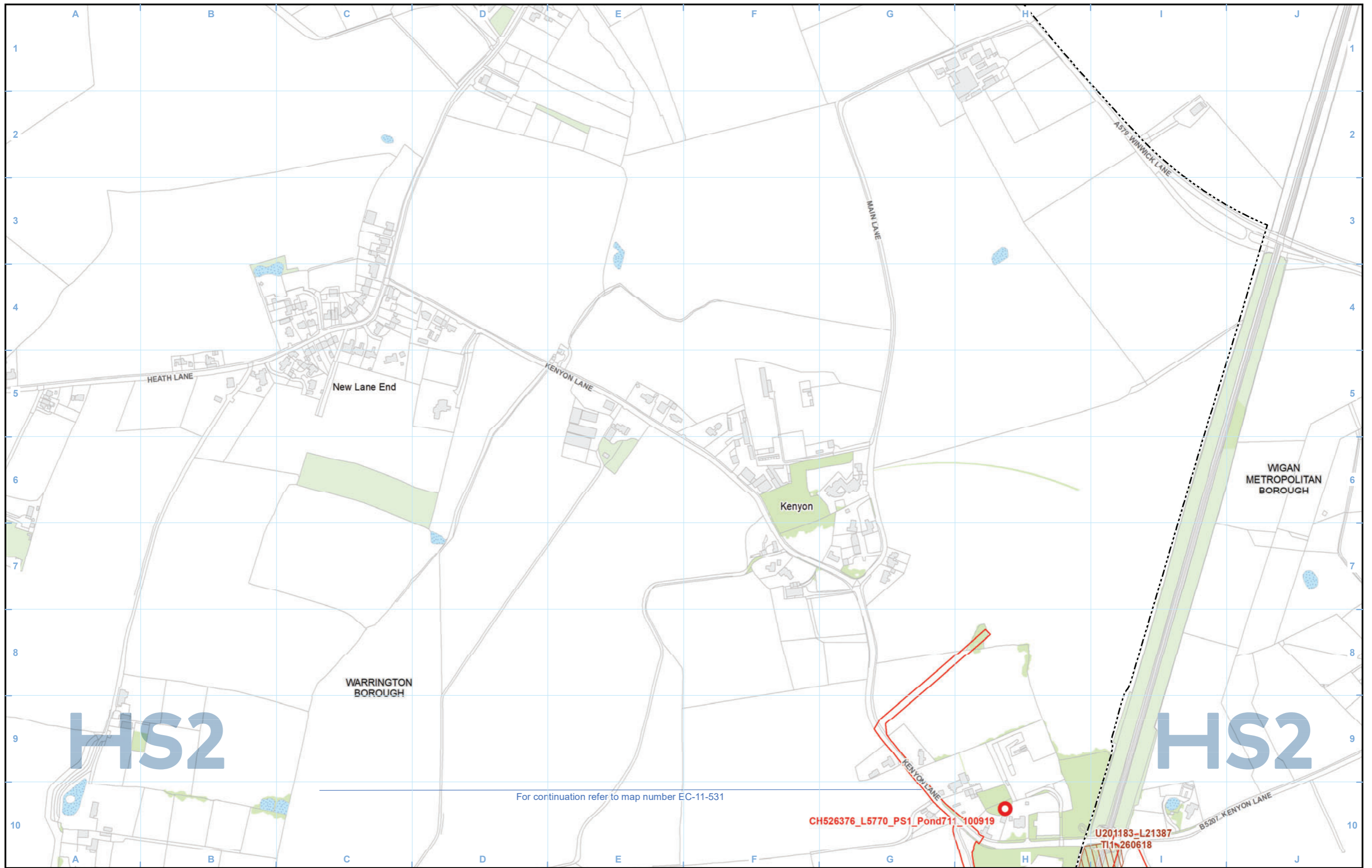
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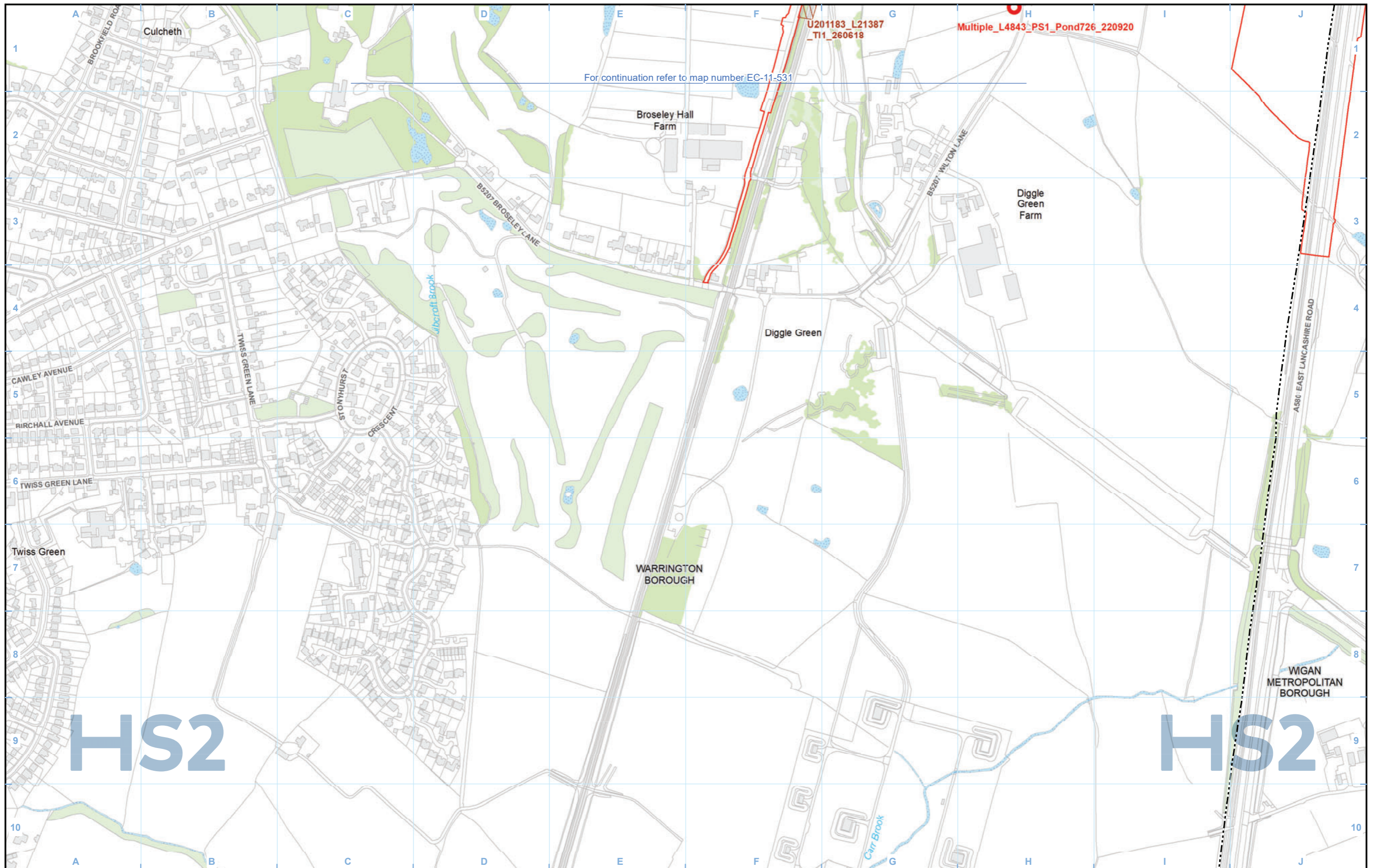


For continuation refer to map number EC-11-531

CH526376\_L5770\_PS1\_Pond711\_100919

U201183-L21387  
TI12260618

<b>Legend</b> Route in tunnel (black dashed line) Route on surface (black solid line) Depot, station, headhouse or portal building (red outline) Land potentially required during construction (red hatched area) Community area boundary (purple outline) County boundary (dotted line) District/Borough boundary (dashed line)		Watercourse (blue line) Woodland (verified by survey) (green shaded area)		<b>Otter:</b> Active otter holt (black circle with white dot) Potential otter holt (green circle with white dot) Suitable habitat for otter (grey hatched area)		<b>White clawed crayfish:</b> Manual search and/or trapping conducted and presence confirmed (red circle with white dot) Manual search and/or trapping conducted and assumed absent (green circle with white dot) Site identified as potentially suitable but no access available (grey circle with white dot)		<b>Pond survey:</b> Pond survey - national pond survey (blue circle with white dot) Pond survey - PSYM (green circle with white dot) Pond survey - rapid assessment method (red circle with white dot)		<b>Fish:</b> Fish survey location (blue circle with white dot) Terrestrial Invertebrate (red hatched area) Terrestrial invertebrate survey extent (red hatched area)	
<b>Map Number</b> EC-11-531-L1		<b>Map Name</b> Other Protected and Notable Species (1)				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190		Scale at A3: 1:5,000 		Doc Number: 2DE01-MWJ-EV-MAP-M000-003432-P01 Date: 07/09/21	



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-531-R1
Map Name	Other Protected and Notable Species (1)
Community Area MA05: Risley to Bamfurlong	

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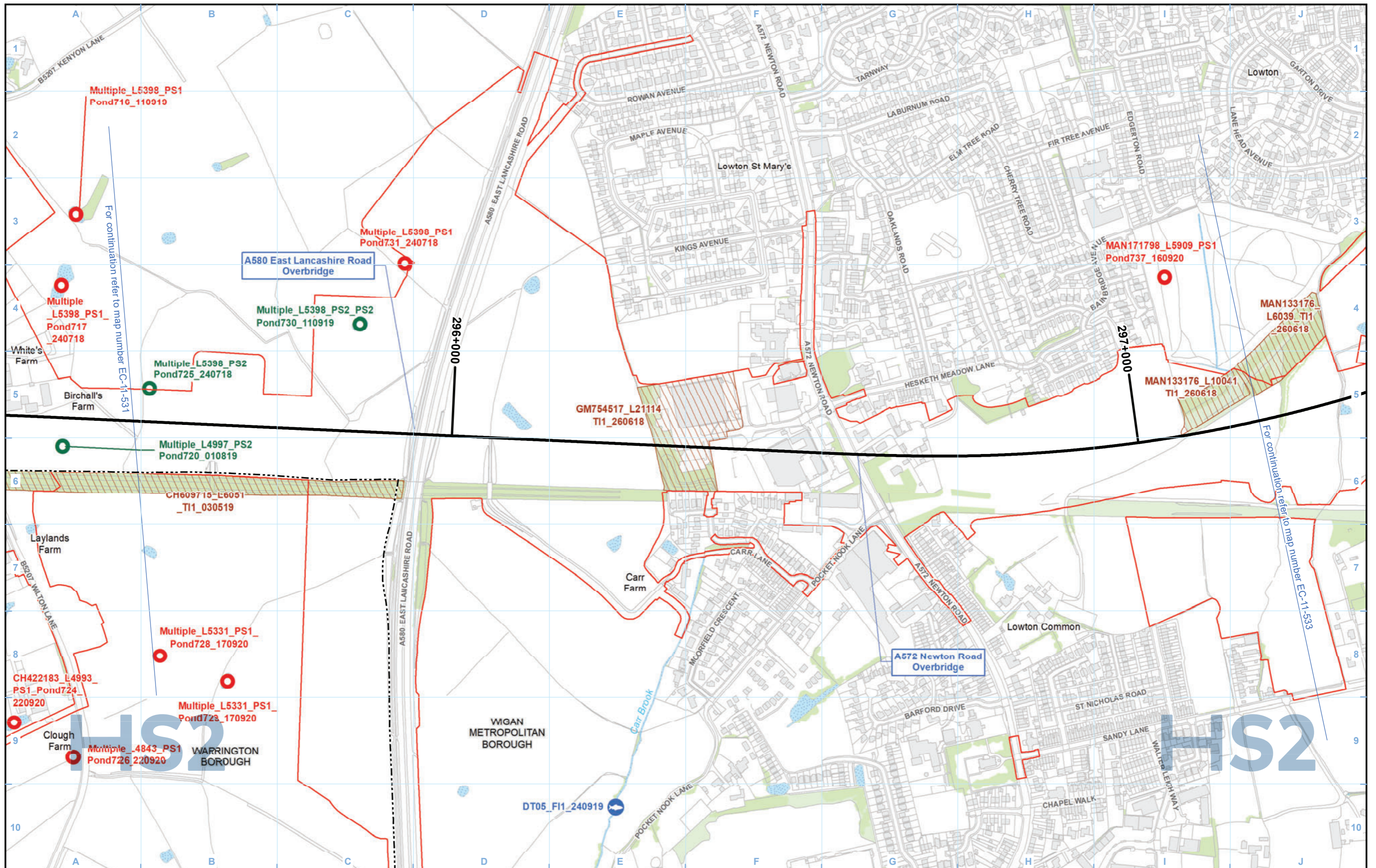
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Metres

Date: 07/09/21

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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Otter: Active otterholt
	Potential otterholt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial Invertebrate: Terrestrial invertebrate survey extent

Map Number	EC-11-532
Map Name	Other Protected and Notable Species (1)
Community Area MA05: Risley to Bamfurlong	

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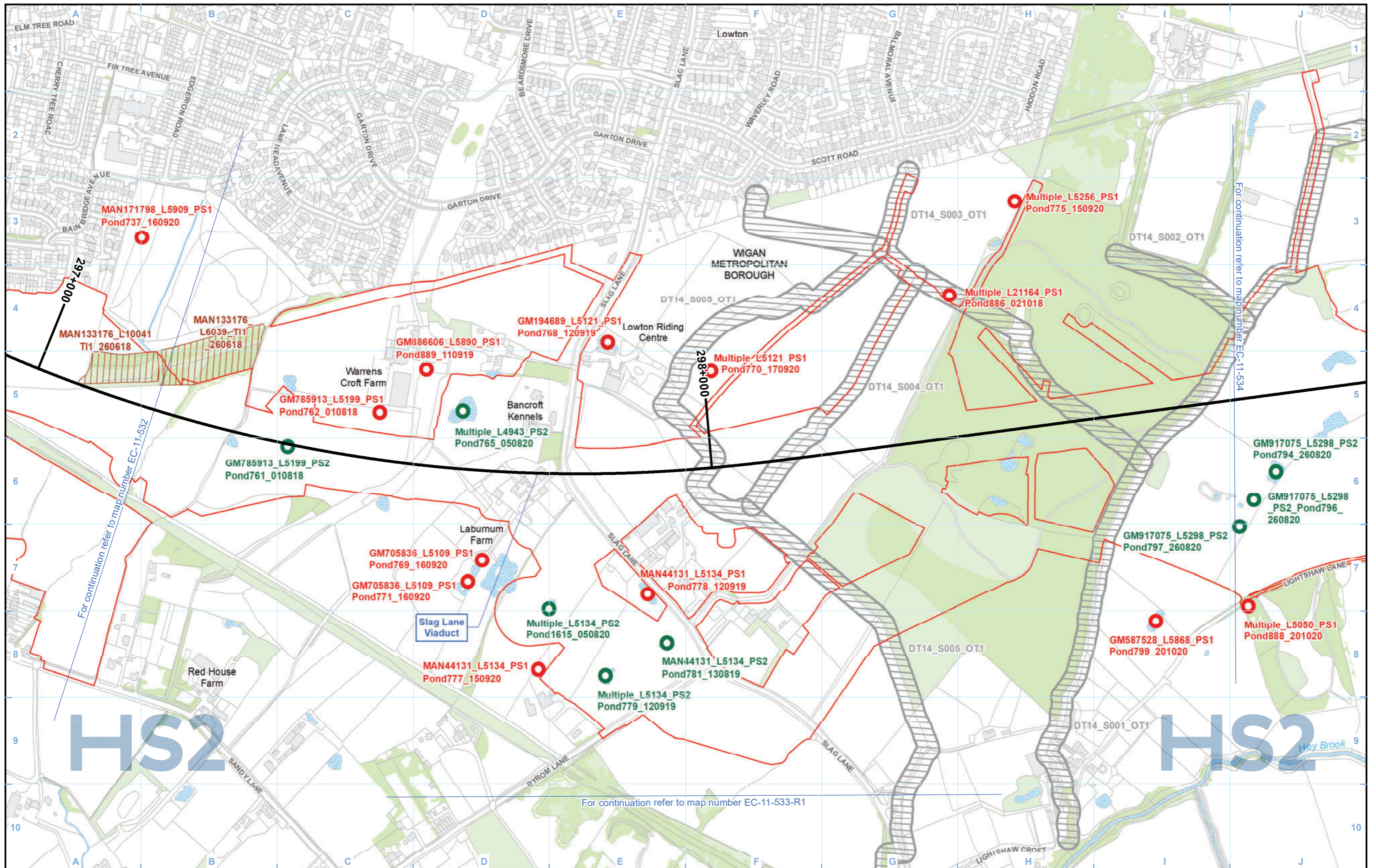
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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number: EC-11-533

Map Name: Other Protected and Notable Species (1)

Community Area MA05: Risley to Bamfurlong

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Metres



- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)

- Otter: Active otter holt
- Potential otter holt
- Suitable habitat for otter

- White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

- Pond survey: Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

- Fish: Fish survey location
- Terrestrial Invertebrate survey extent

- Fish: Fish survey location
- Terrestrial Invertebrate survey extent

Map Number: EC-11-533-R1

Map Name: Other Protected and Notable Species (1)

Community Area MA05: Risley to Bamfurlong

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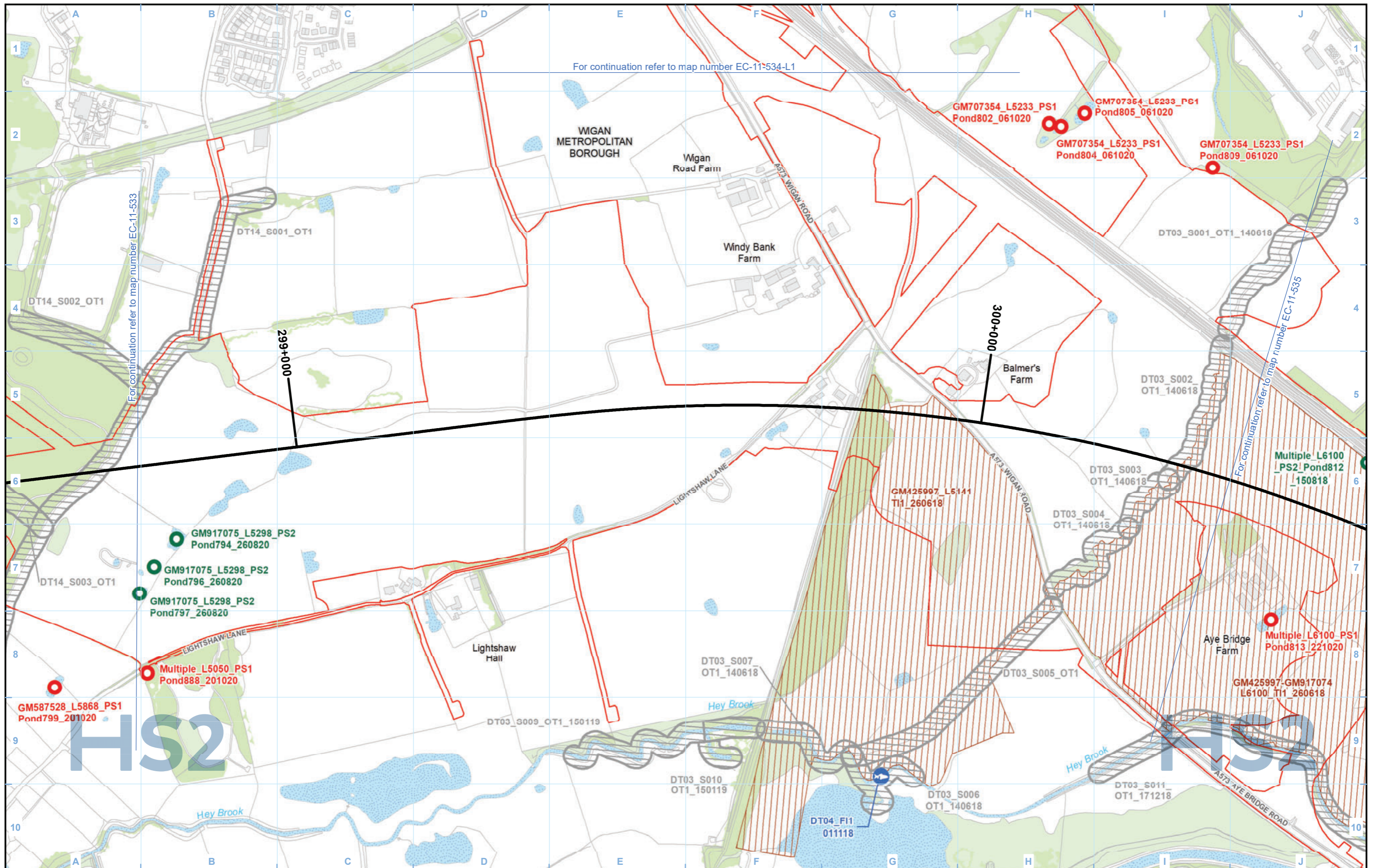
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Metres

Date: 07/09/21

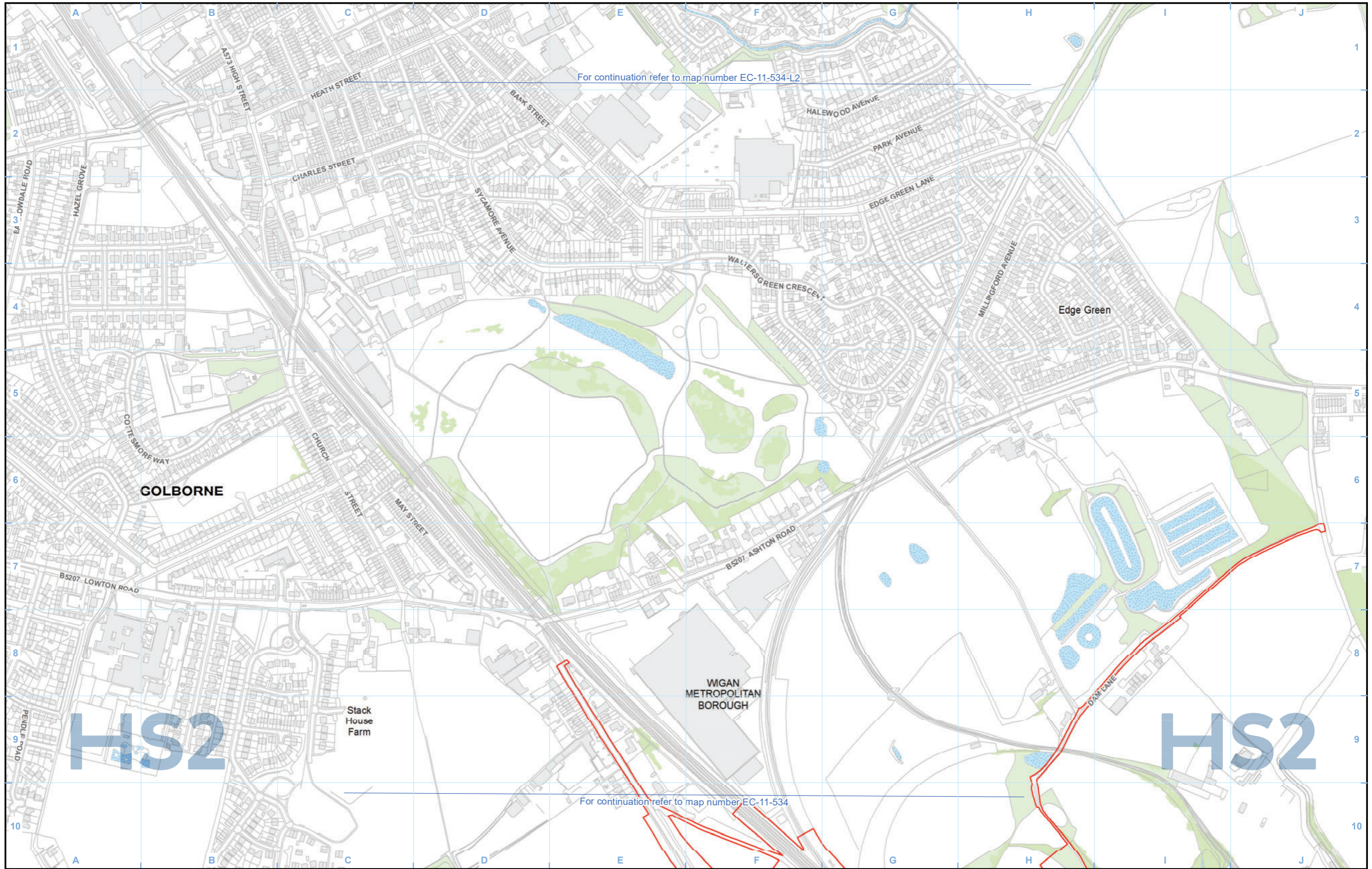


For continuation refer to map number EC-11-534-L1

For continuation refer to map number EC-11-533

For continuation refer to map number EC-11-535

<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otterholt</li> <li>Potential otterholt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-534		<b>Map Name</b> Other Protected and Notable Species (1)				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 		<small>© Crown copyright and database rights 2020 OS 100049190</small>	
<b>Community Area MA05:</b> Risley to Bamfurlong		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-001414-P01		<b>Date:</b> 07/09/21		<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>					



For continuation refer to map number EC-11-534-L2

For continuation refer to map number EC-11-534

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-534-L1
Map Name	Other Protected and Notable Species (1)
Community Area MA05: Risley to Bamfurlong	

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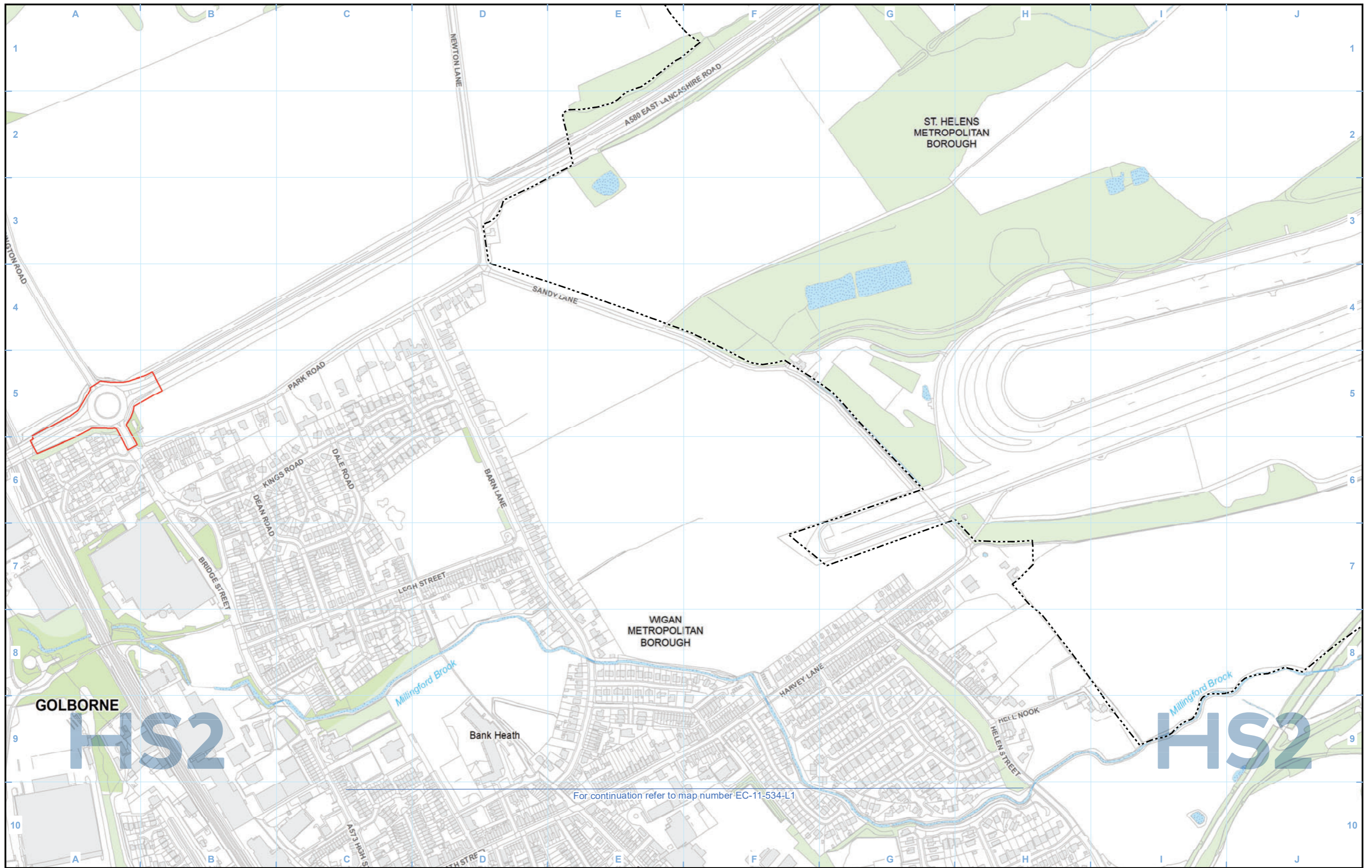
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For continuation refer to map number EC-11-534-L1

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number **EC-11-534-L2**

Map Name **Other Protected and Notable Species (1)**

Community Area MA05:  
Risley to Bamfurlong

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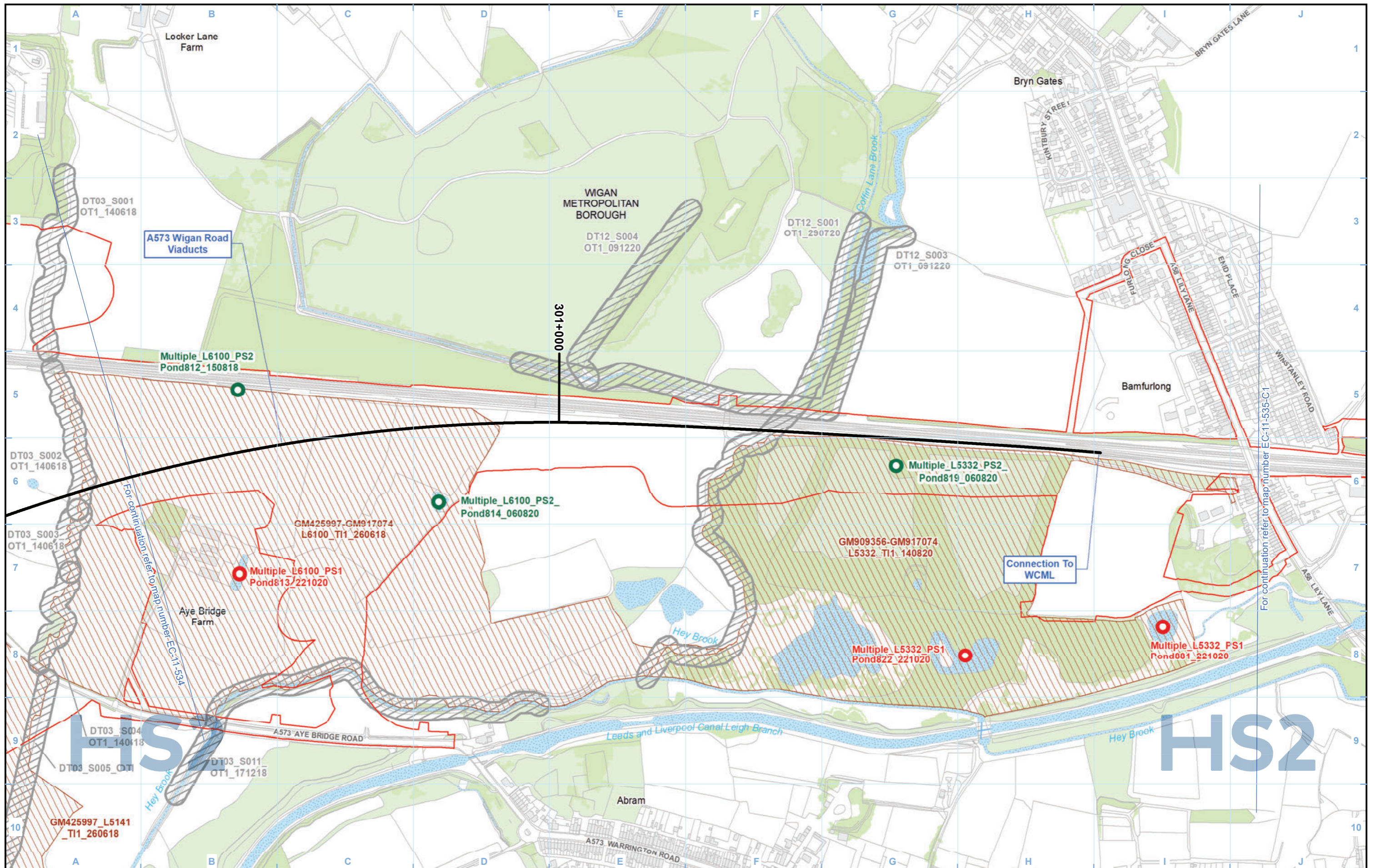
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial invertebrate: Terrestrial invertebrate survey extent

Map Number	EC-11-535
Map Name	Other Protected and Notable Species (1)
Community Area MA05: Risley to Bamfurlong	

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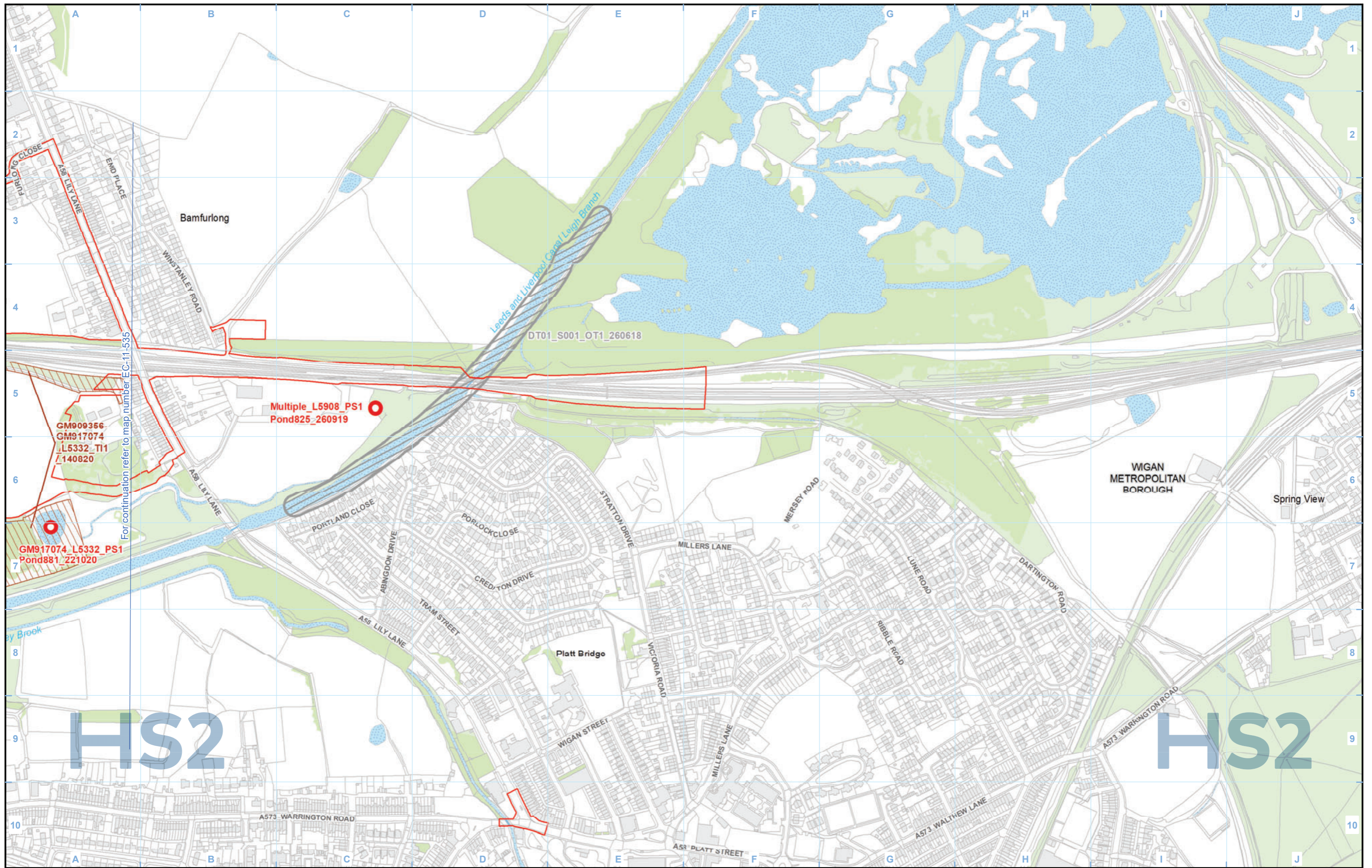
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Scale at A3: 1:5,000

Metres

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**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial invertebrate survey extent

Map Number: EC-11-535-C1

Map Name: Other Protected and Notable Species (1)

Community Area MA05: Risley to Bamfurlong

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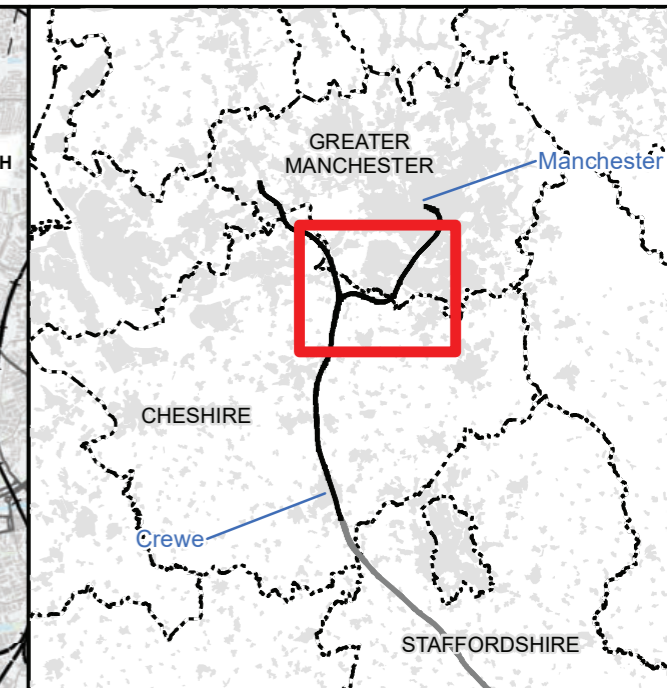
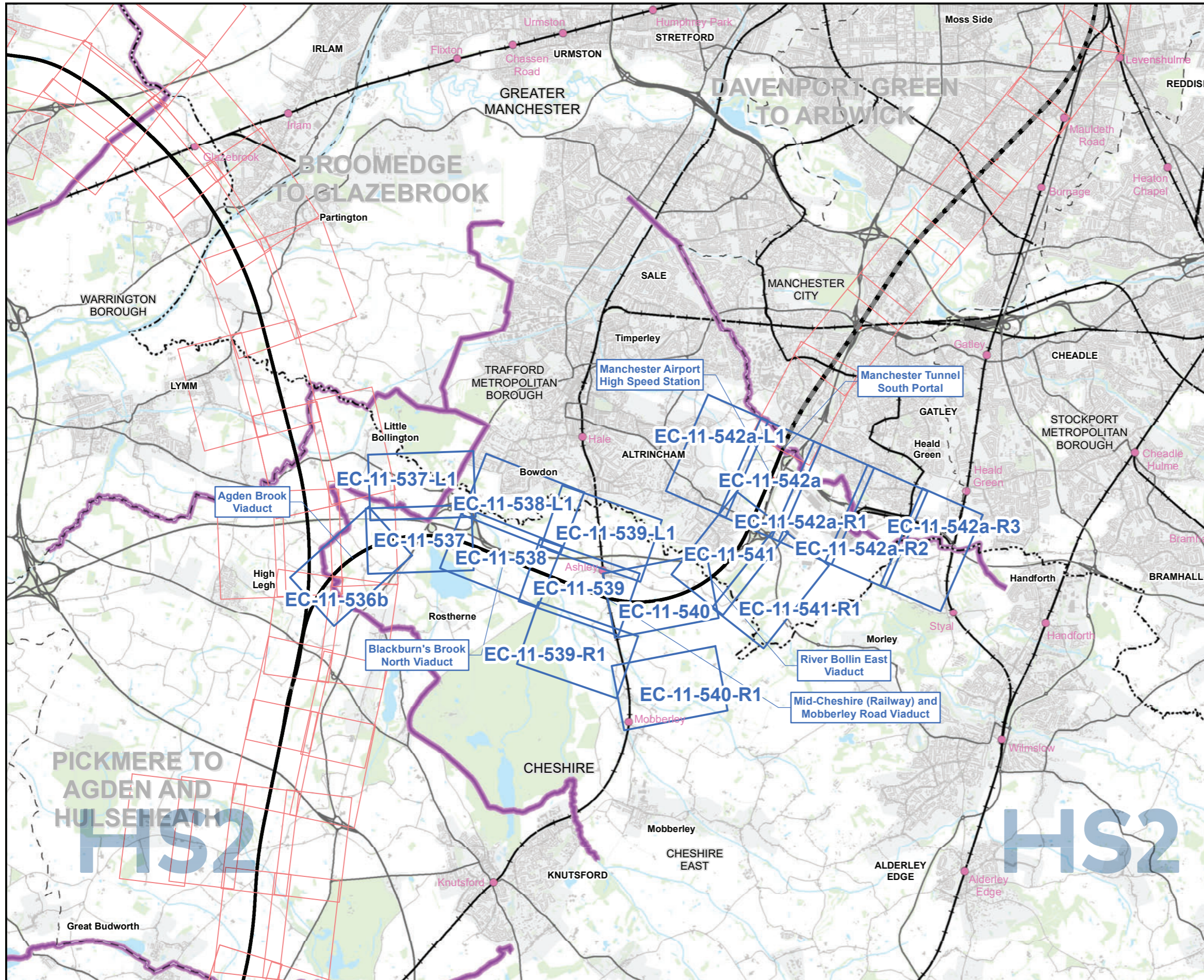
Doc Number: 2DE01-MWJ-EV-MAP-M000-002853-P01

Date: 07/09/21

Scale at A3: 1:5,000

Metres





**Map Series Information:**

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number: EC-11-INDEX-MA06

Map Name: Index Map of:  
Other Protected and Notable  
Species (1)

Community Area MA06:  
Hulseheath to Manchester Airport

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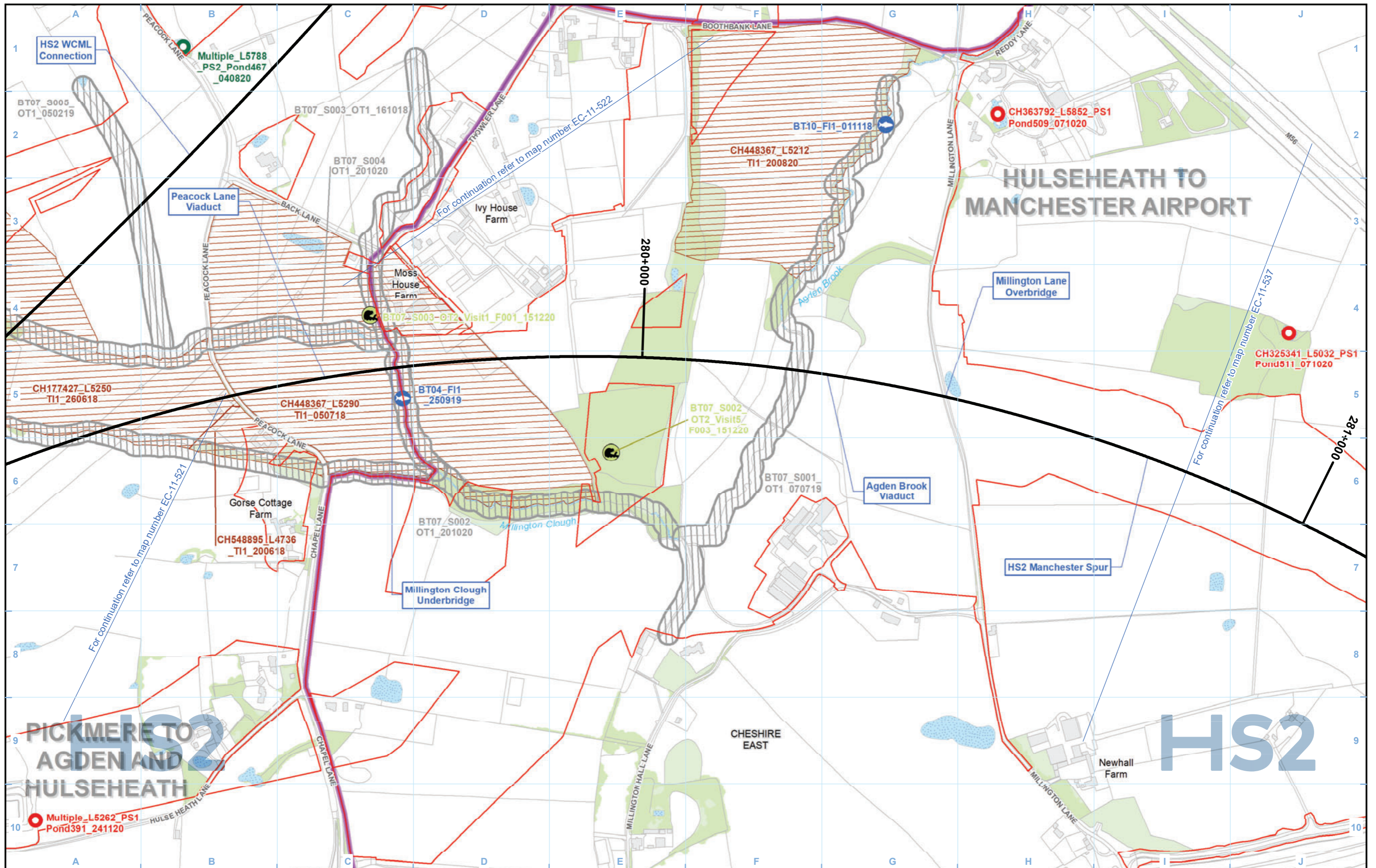
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001444-P01

Date: 03/09/21

Note: Not all data layers in the legend are represented on every map.



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

**White clawed crayfish:**

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Map Number: EC-11-536b

Map Name: Other Protected and Notable Species (1)

Community Area MA06: Hulseheath to Manchester Airport

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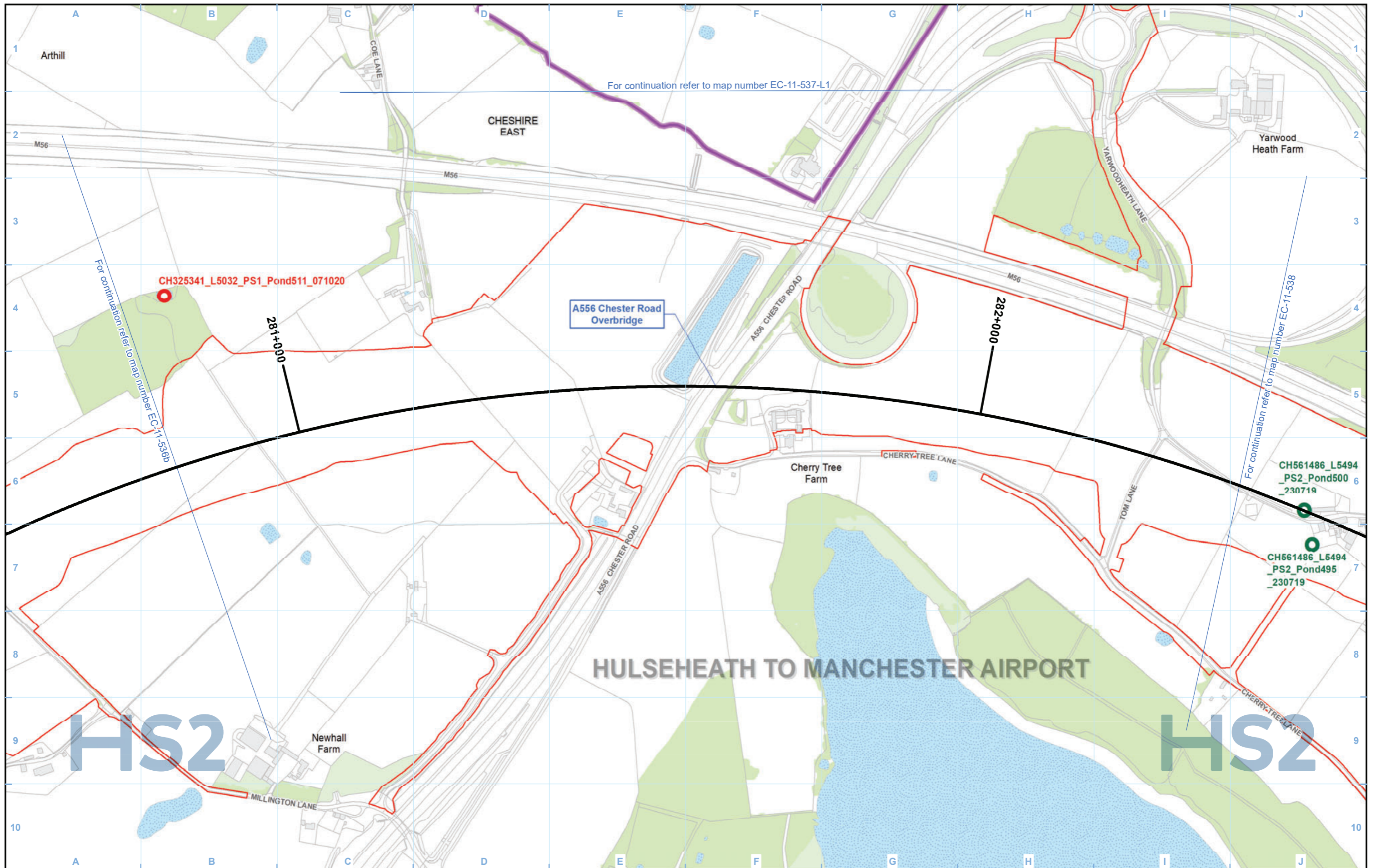
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Date: 03/09/21

Scale at A3: 1:5,000

Metres



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Otter: Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial Invertebrate survey extent

Map Number	EC-11-537
Map Name	Other Protected and Notable Species (1)
Community Area MA06: Hulseheath to Manchester Airport	

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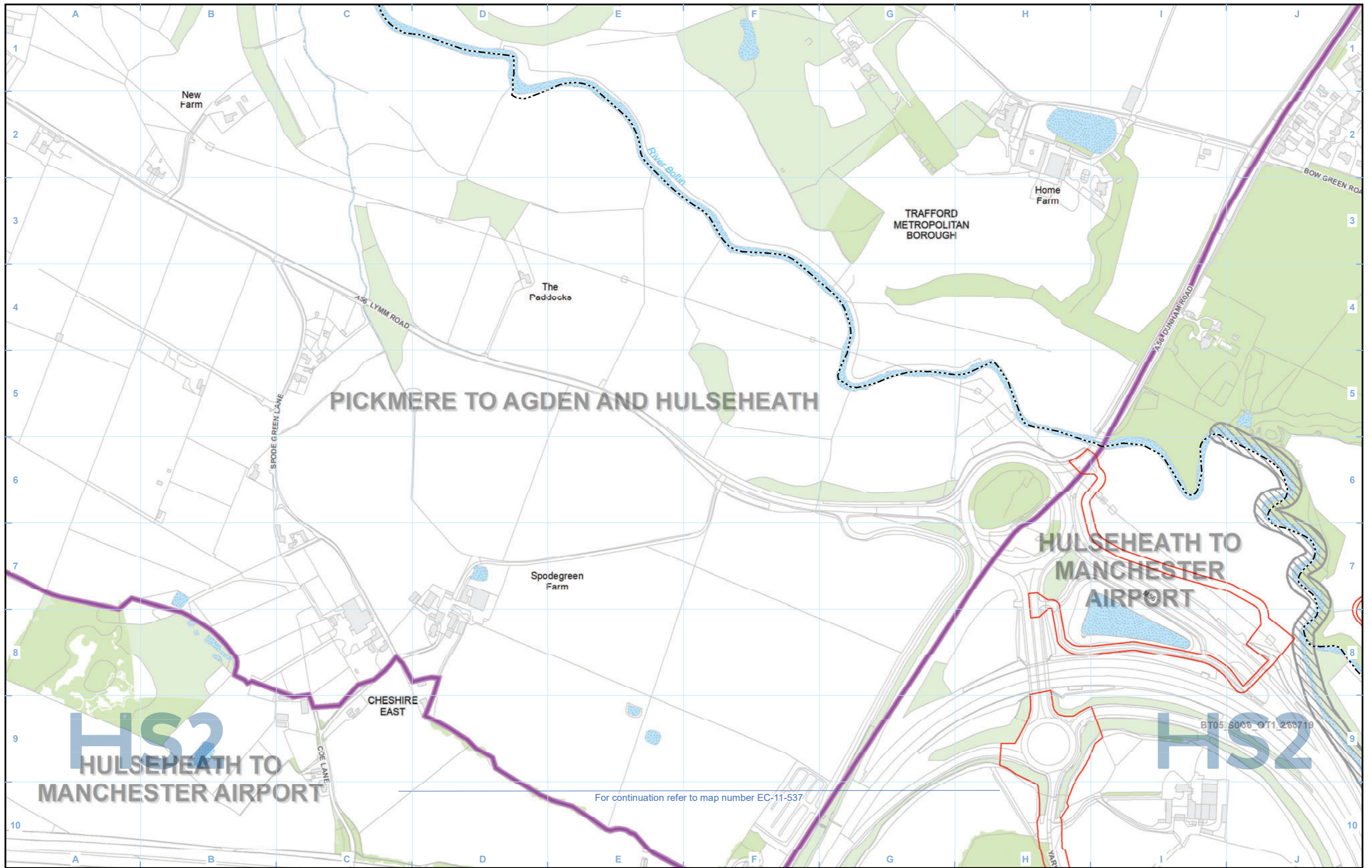
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Date: 03/09/21

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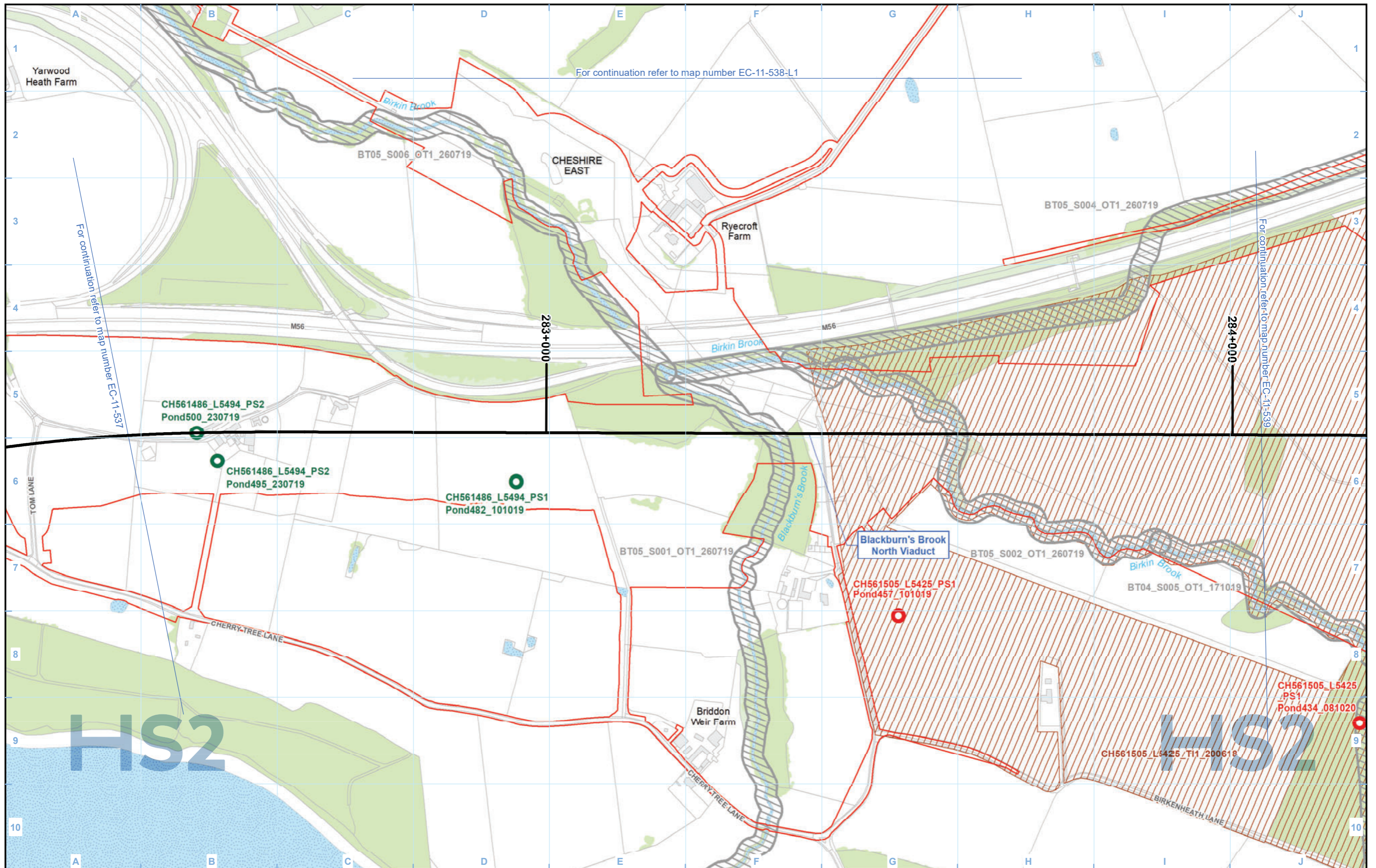
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For continuation refer to map number EC-11-537

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> <p>EC-11-537-L1</p>				<p>Registered in England. Registration number 06791686.  Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p>		<p>Scale at A3: 1:5,000</p>					
<b>Map Name</b> <p>Other Protected and Notable Species (1)</p>		<p>Community Area MA06:  Hulseheath to Manchester Airport</p>		<p>© Crown copyright and database rights 2020  OS 100049190</p>		<p>Doc Number: 2DE01-MWJ-EV-MAP-M000-003437-P01</p>		<p>Date: 03/09/21</p>			



For continuation refer to map number EC-11-538-L1

For continuation refer to map number EC-11-537

For continuation refer to map number EC-11-539

Legend		Watercourse	Otter:	White clawed crayfish:	Pond survey:	Fish:
	Route in tunnel					
	Route on surface					
	Depot, station, headhouse or portal building					
	Land potentially required during construction					
	Community area boundary					
	County boundary					
	District/Borough boundary					

Map Number	EC-11-538
Map Name	Other Protected and Notable Species (1)
	Community Area MA06: Hulseheath to Manchester Airport

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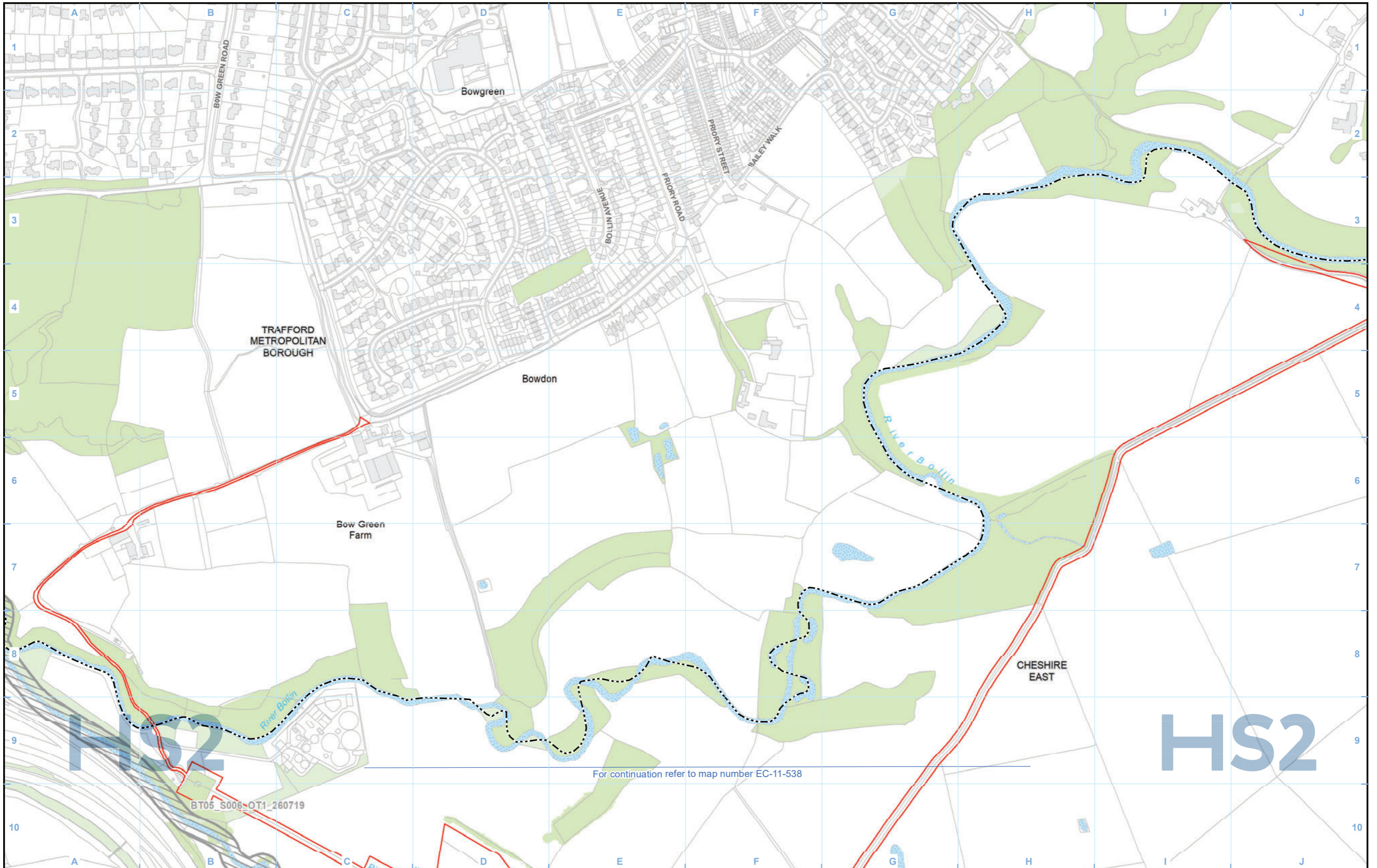
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001419-P01

Scale at A3: 1:5,000

Metres

Date: 03/09/21



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Otter: Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	White clawed crayfish: Manual search and/or trapping conducted and assumed absent
	White clawed crayfish: Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial Invertebrate: Terrestrial invertebrate survey extent

Map Number	EC-11-538-L1
Map Name	Other Protected and Notable Species (1)
Community Area MA06: Hulseheath to Manchester Airport	

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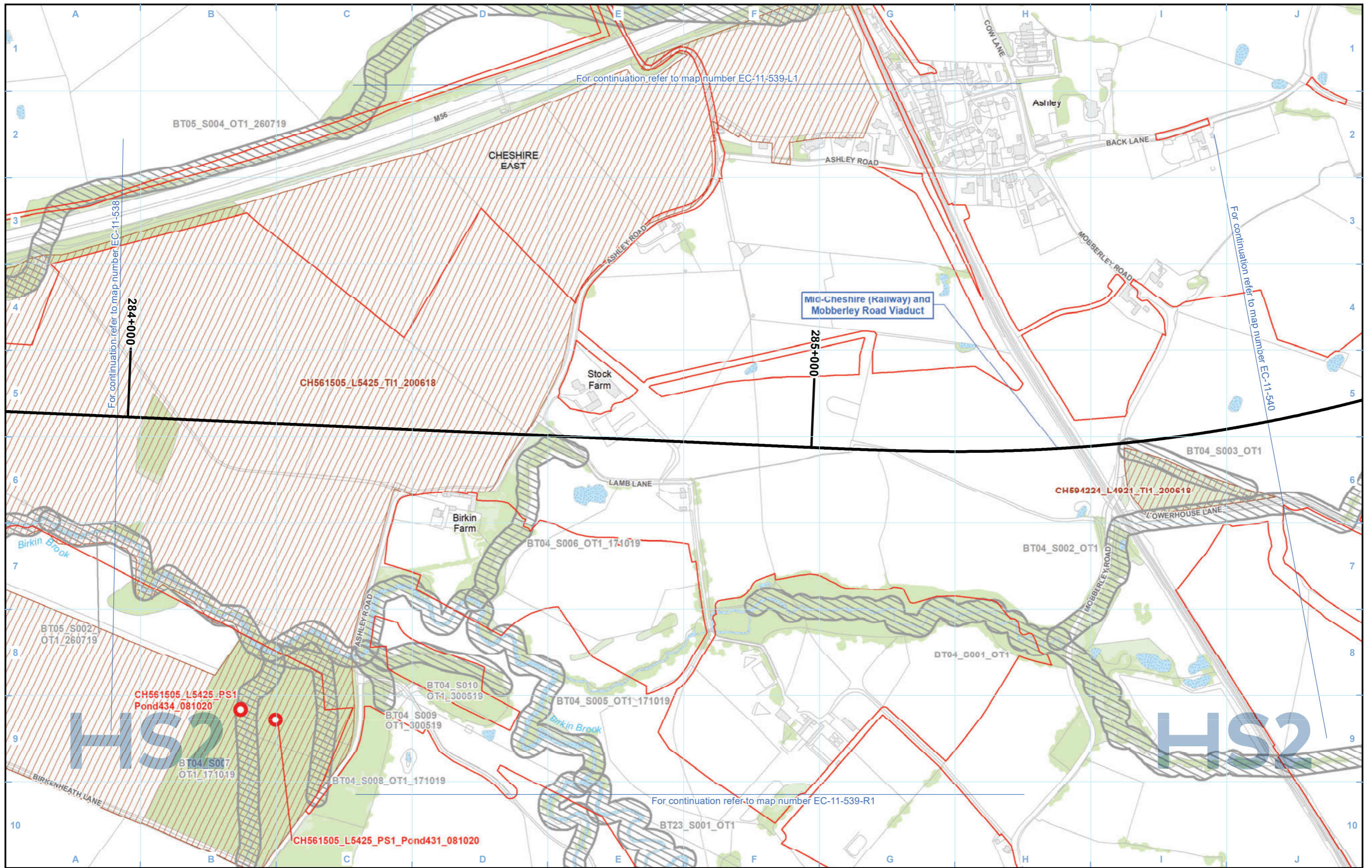
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Scale at A3: 1:5,000

Date: 03/09/21

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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	White clawed crayfish: Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey: Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish: Fish survey location
	Terrestrial invertebrate: Terrestrial invertebrate survey extent

Map Number	EC-11-539
Map Name	Other Protected and Notable Species (1)
Community Area MA06: Hulseheath to Manchester Airport	

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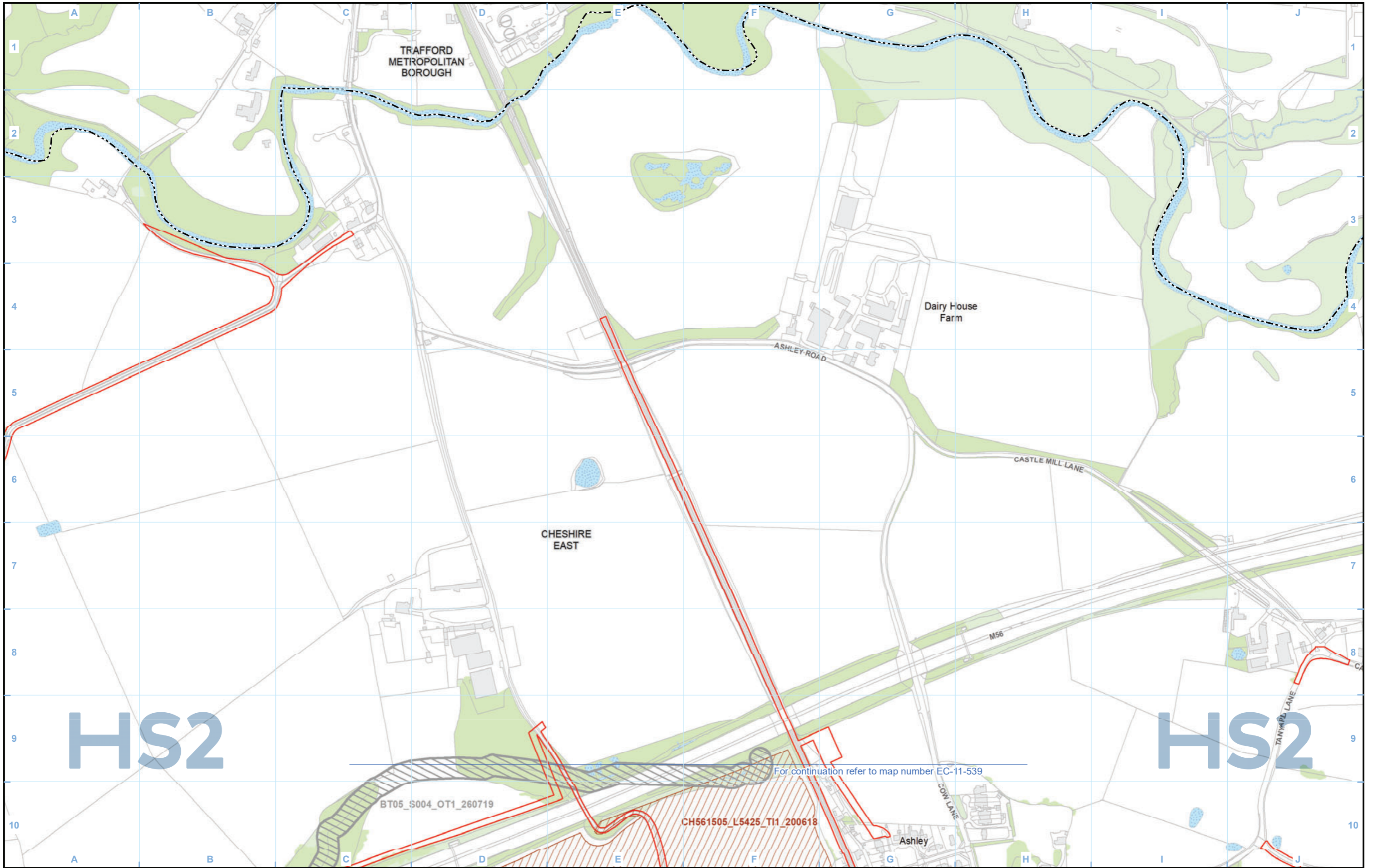
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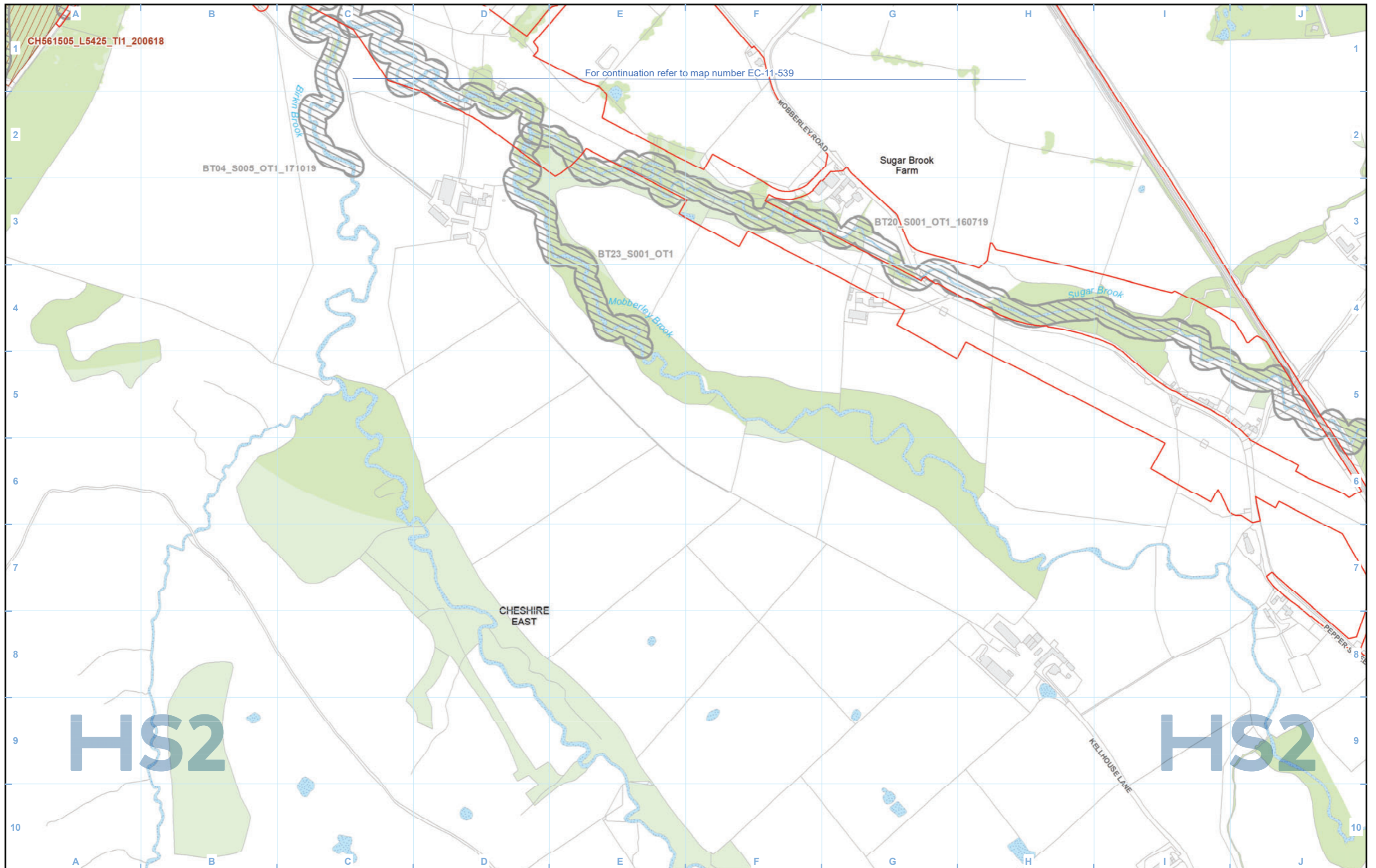
Date: 03/09/21

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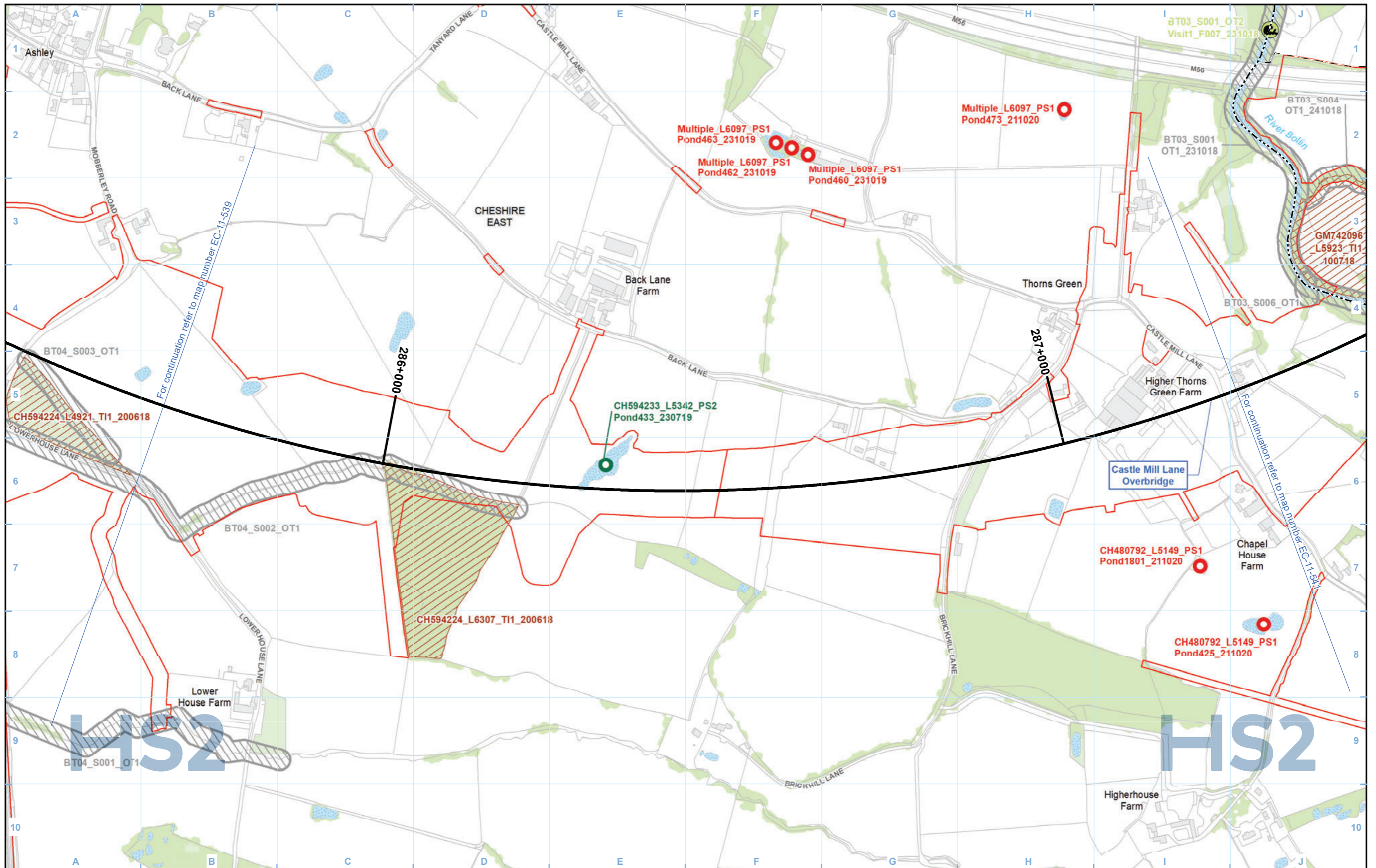


<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-539-L1		<b>Map Name</b> Other Protected and Notable Species (1)				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small> <small>© Crown copyright and database rights 2020 OS 100049190</small>			
<b>Community Area MA06:</b> Hulseheath to Manchester Airport		<b>Scale at A3: 1:5,000</b> 		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003439-P01</small>		<small>Date: 03/09/21</small>			





<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otter holt</li> <li>Potential otter holt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-539-R1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 					
<b>Map Name</b> Other Protected and Notable Species (1)		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003440-P01		<b>Date:</b> 03/09/21					
<b>Community Area MA06:</b> Hulseheath to Manchester Airport											



Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
Route in tunnel	Watercourse	Active otter holt	Manual search and/or trapping conducted and presence confirmed	Pond survey - national pond survey	Fish survey location	Pond survey - rapid assessment method	Pond survey - PSYM	Terrestrial invertebrate survey extent	Terrestrial invertebrate survey extent
Depot, station, headhouse or portal building	Woodland (verified by survey)	Potential otter holt	Manual search and/or trapping conducted and assumed absent	Site identified as potentially suitable but no access available	Site identified as potentially suitable but no access available	Site identified as potentially suitable but no access available	Site identified as potentially suitable but no access available	Site identified as potentially suitable but no access available	Site identified as potentially suitable but no access available
Land potentially required during construction		Suitable habitat for otter							
Community area boundary									
County boundary									
District/Borough boundary									

Map Number	EC-11-540
Map Name	Other Protected and Notable Species (1)
	Community Area MA06: Hulseheath to Manchester Airport

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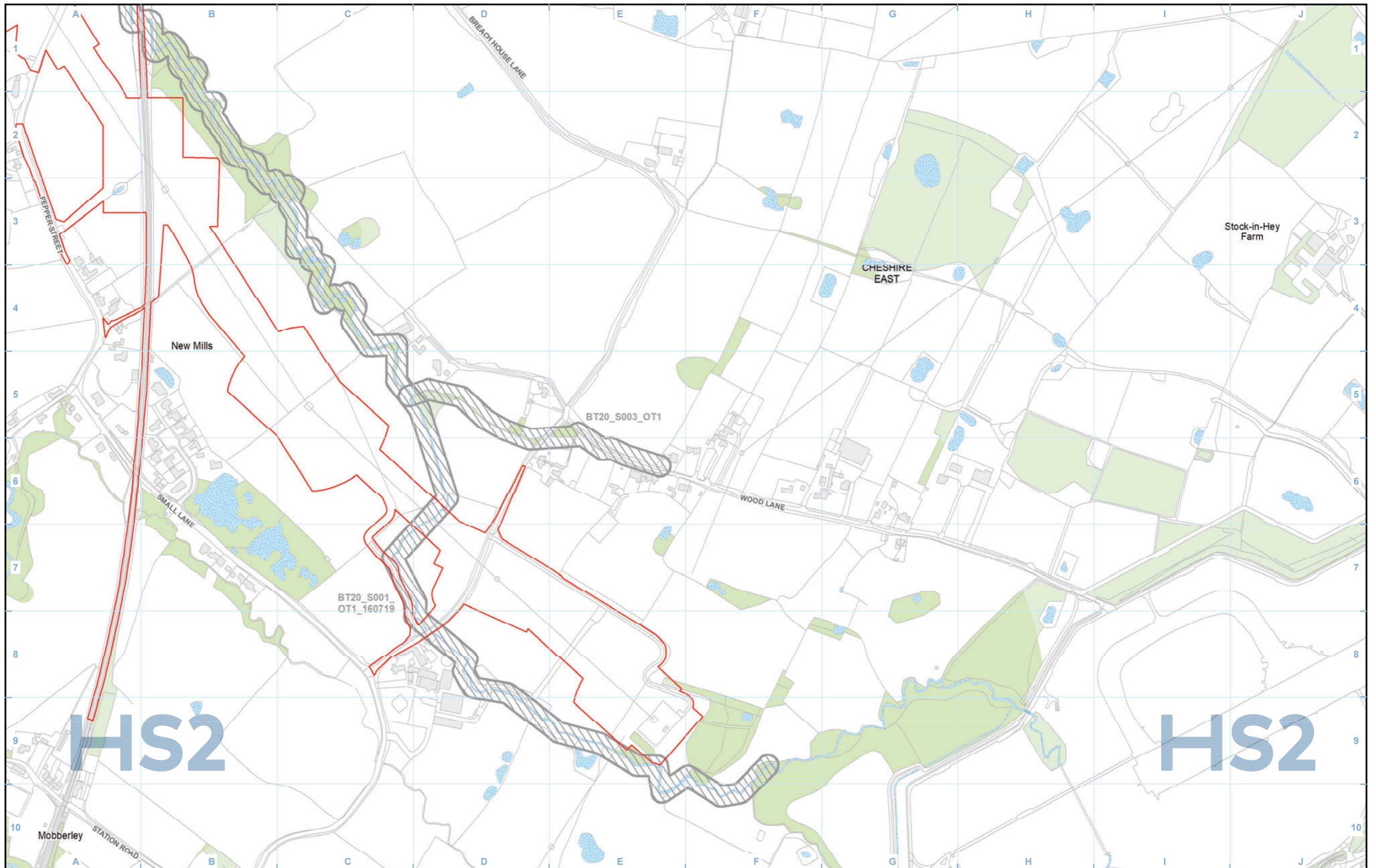
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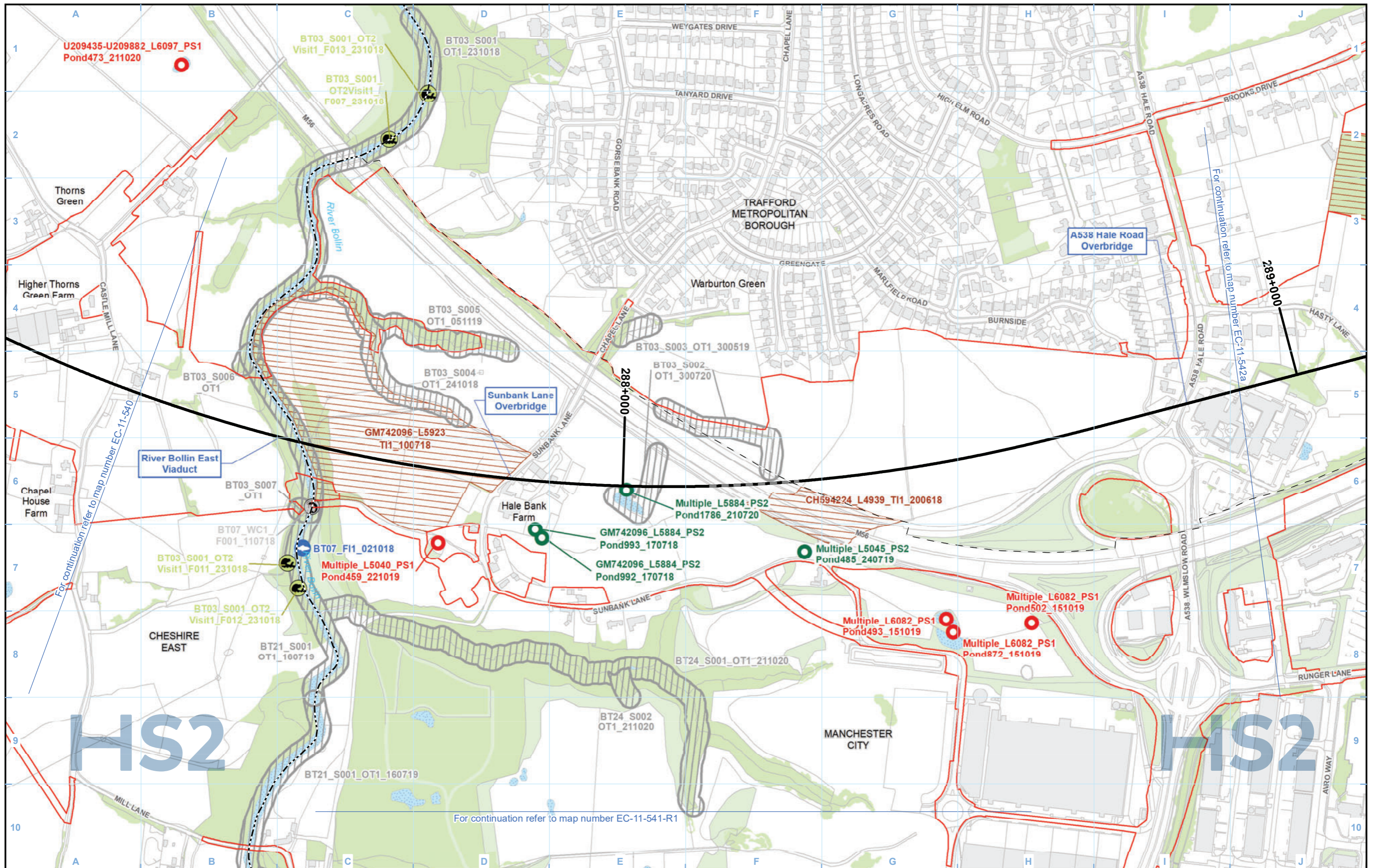
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Date: 03/09/21

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<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-540-R1				<b>Map Name</b> <b>Other Protected and Notable Species (1)</b>		<small>Registered in England. Registration number 06791686.          Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA06:</b> <b>Hulseheath to Manchester Airport</b>		<small>© Crown copyright and database rights 2020          OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003441-P01</small>		<small>Date: 03/09/21</small>			



Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-541
Map Name	Other Protected and Notable Species (1)
Community Area MA06: Hulseheath to Manchester Airport	

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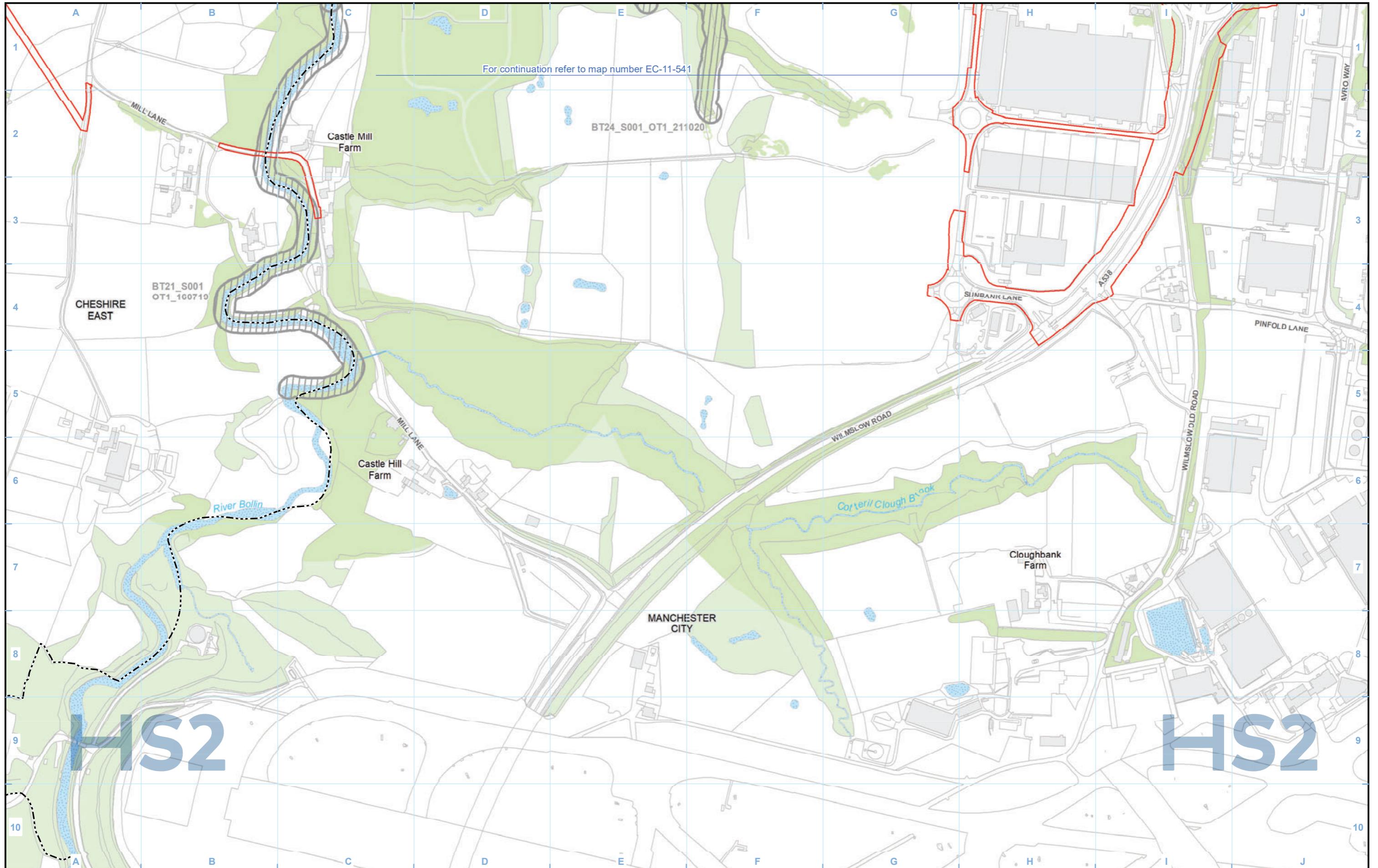
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate survey extent

Map Number	EC-11-541-R1
Map Name	Other Protected and Notable Species (1)
Community Area MA06: Hulseheath to Manchester Airport	

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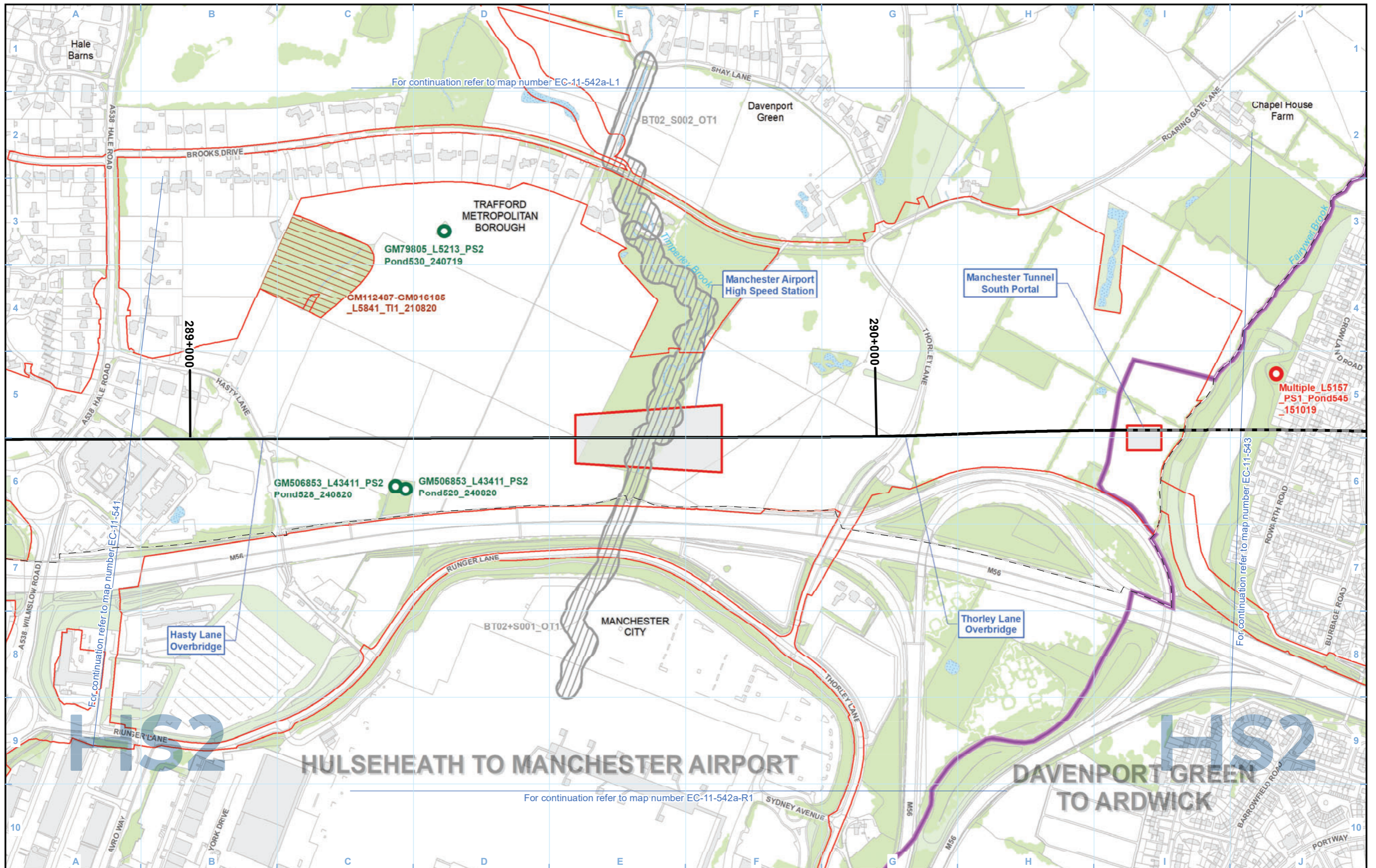
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Date: 03/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres

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Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-542a
Map Name	Other Protected and Notable Species (1)
Community Area MA06: Hulseheath to Manchester Airport	

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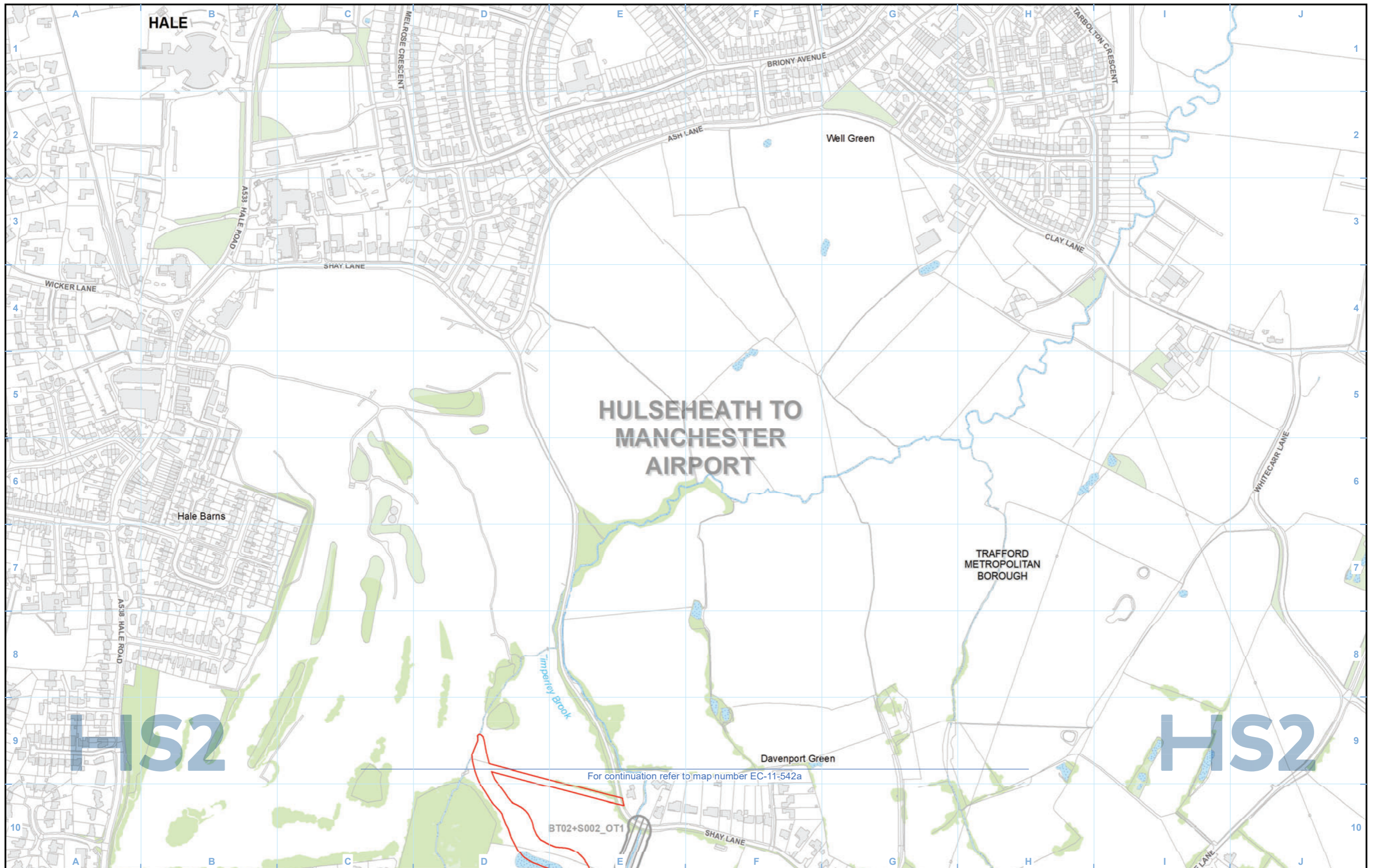
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Date: 03/09/21



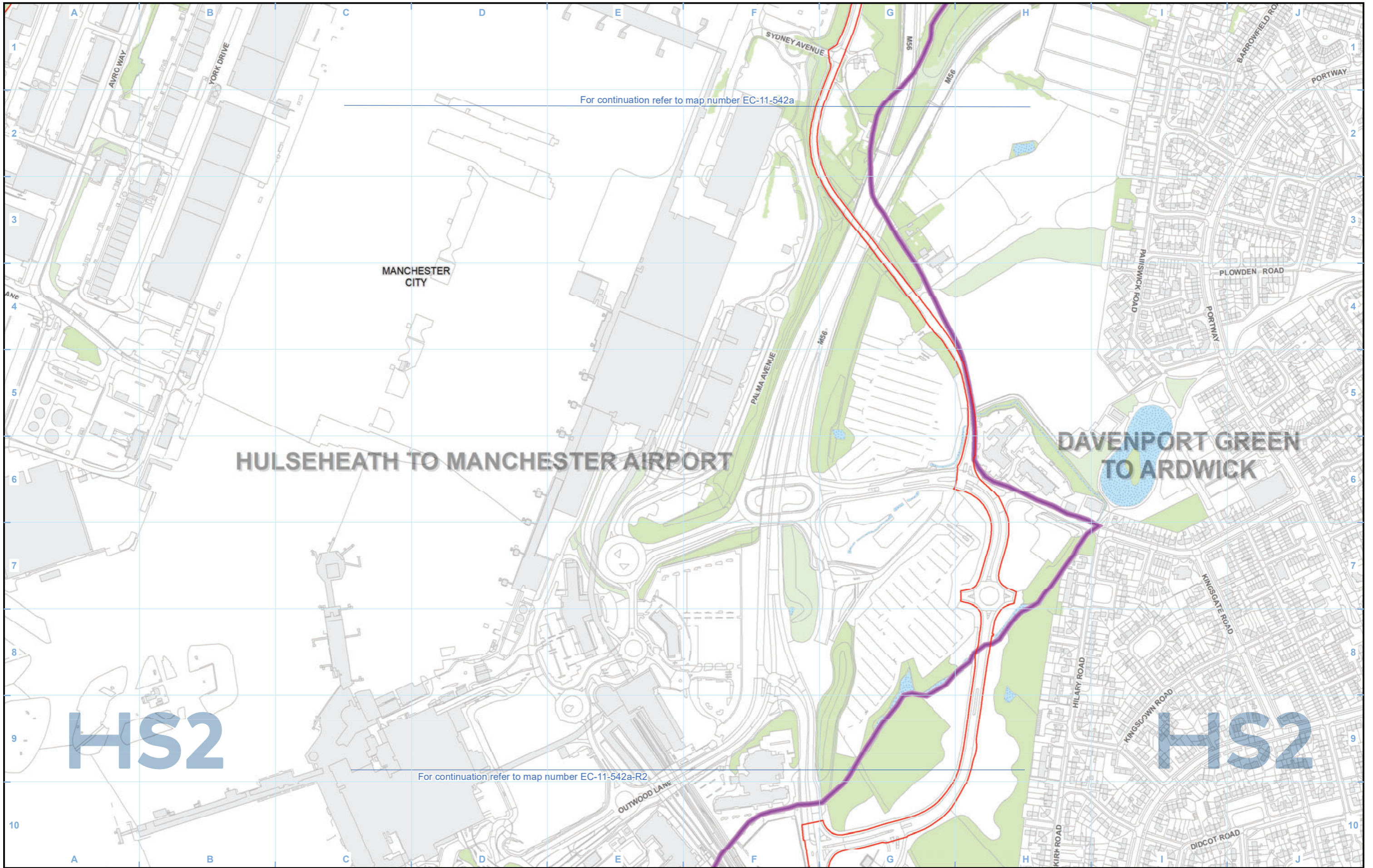
# HULSEHEATH TO MANCHESTER AIRPORT

TRAFFORD METROPOLITAN BOROUGH

For continuation refer to map number EC-11-542a

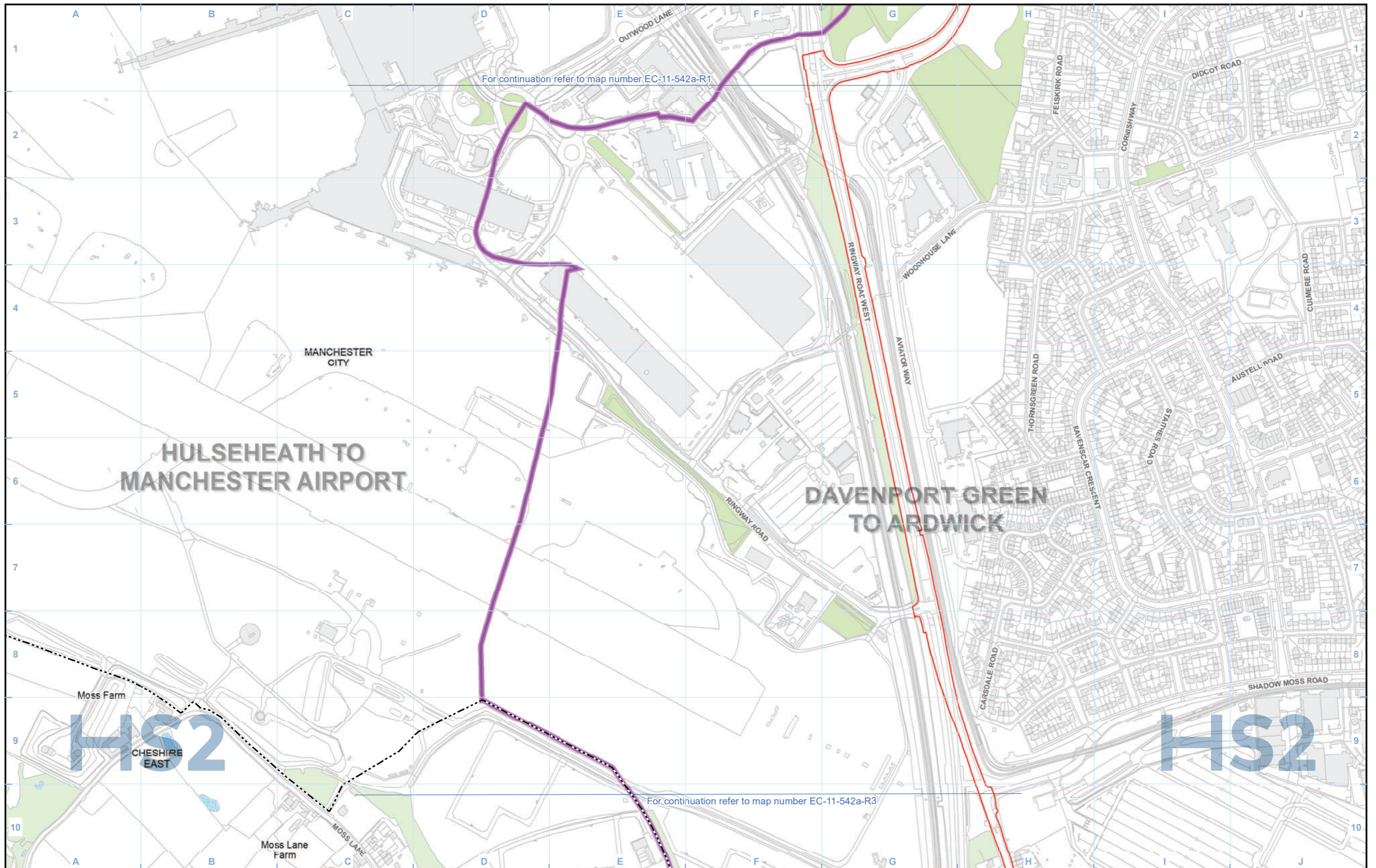
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<b>Legend</b> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li>Watercourse</li> <li>Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li>Active otter holt</li> <li>Potential otter holt</li> <li>Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li>Manual search and/or trapping conducted and presence confirmed</li> <li>Manual search and/or trapping conducted and assumed absent</li> <li>Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li>Pond survey - national pond survey</li> <li>Pond survey - PSYM</li> <li>Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial Invertebrate</li> <li>Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-542a-L1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 					
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<b>Community Area MA06:</b> Hulseheath to Manchester Airport											



<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-542a-R1				<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 					
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<b>Community Area MA06:</b> Hulseheath to Manchester Airport											





Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate survey extent

Map Number	EC-11-542a-R2
Map Name	Other Protected and Notable Species (1)
Community Area MA06: Hulseheath to Manchester Airport	

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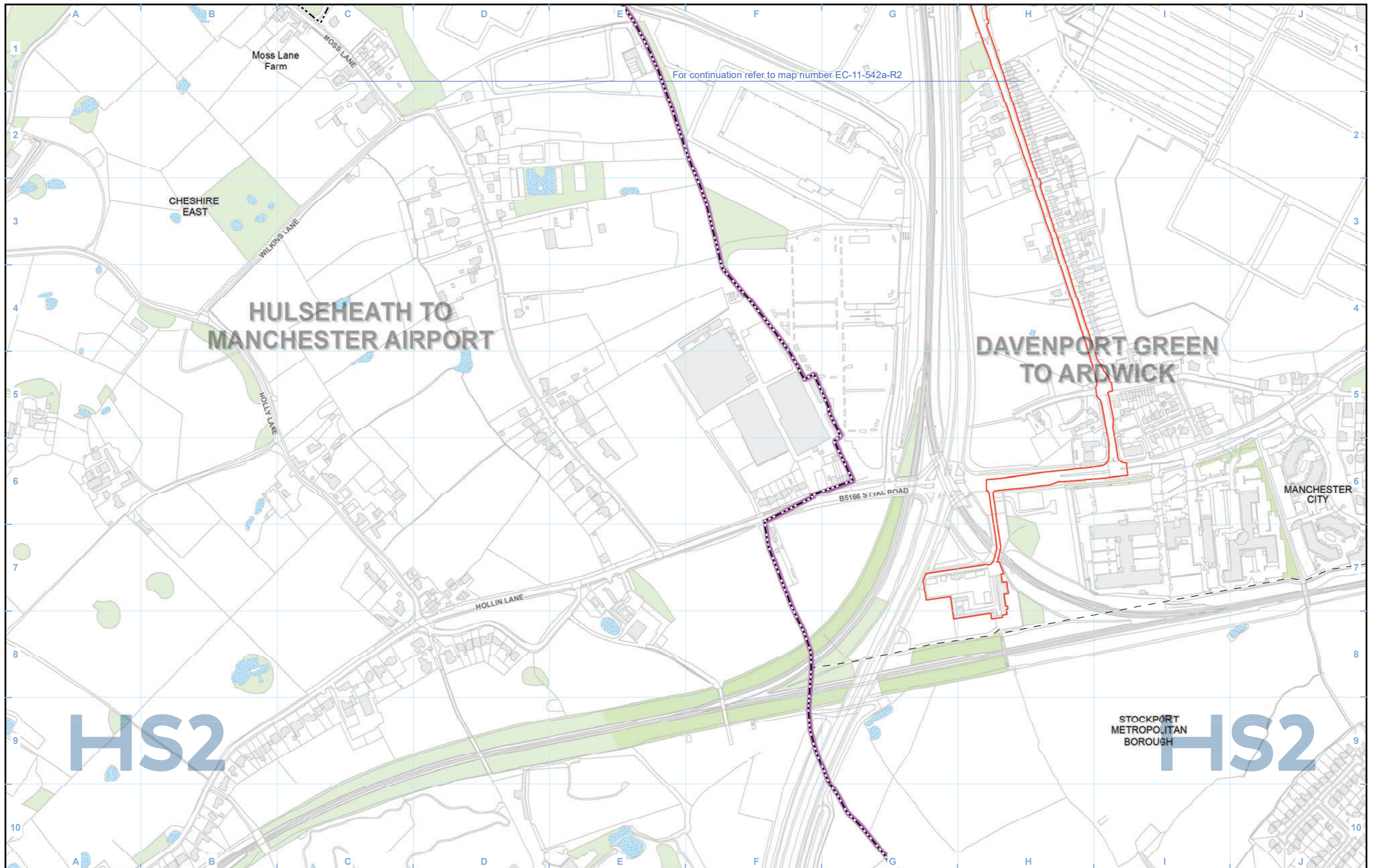
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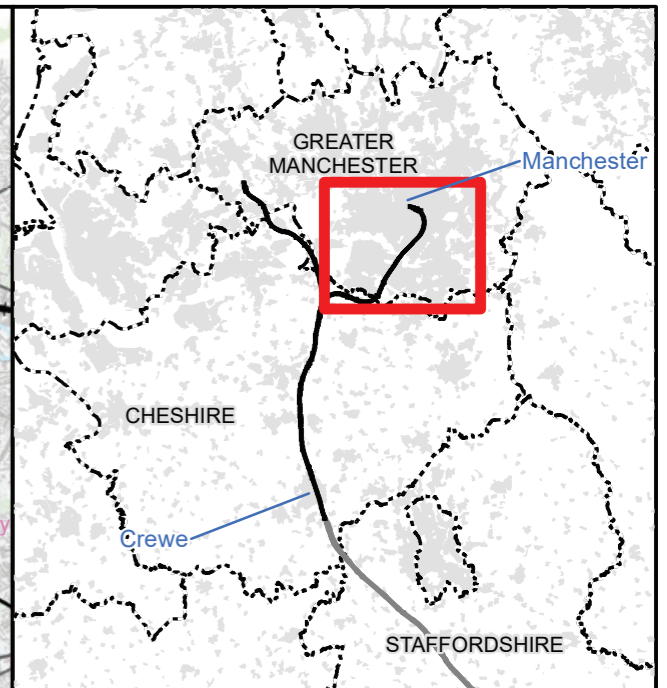
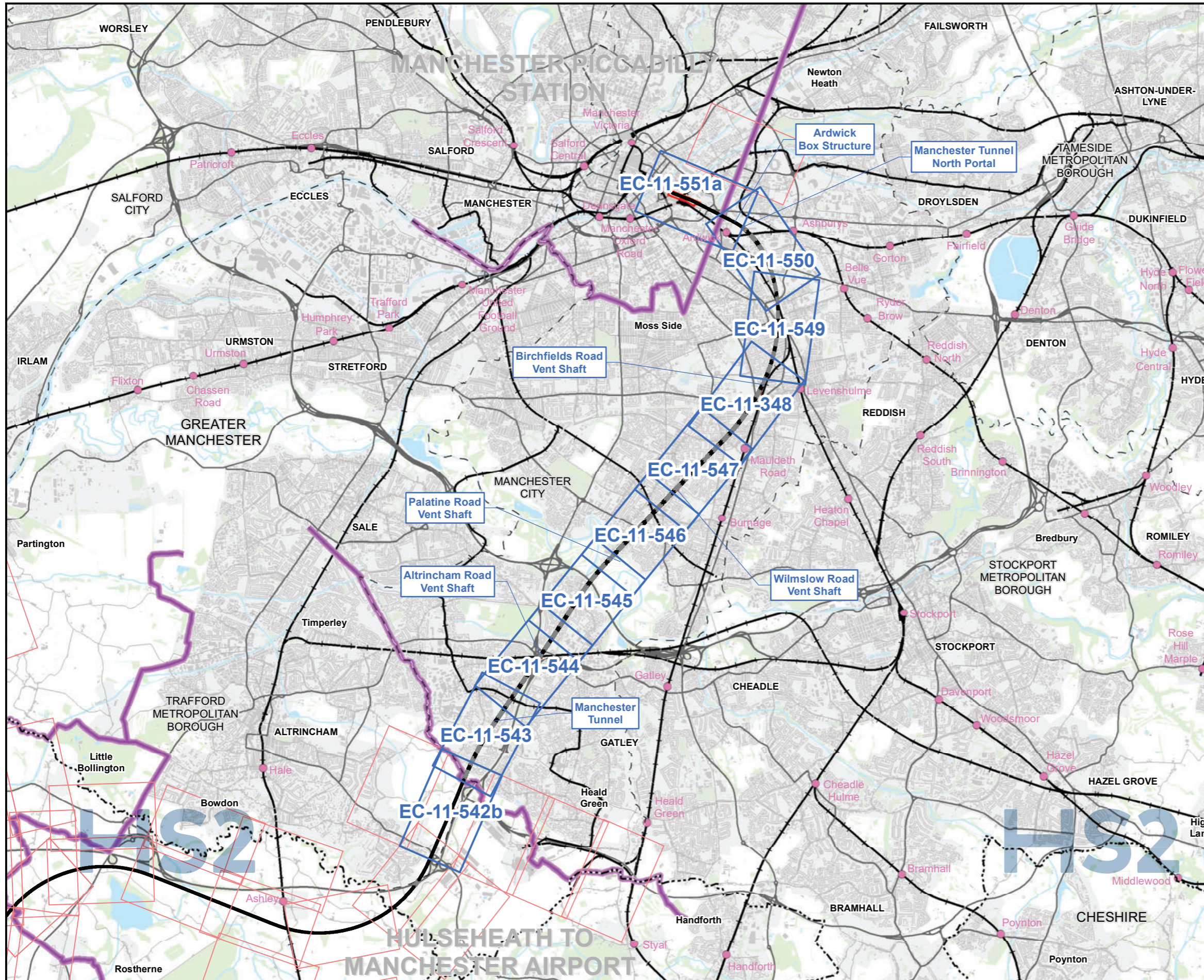
# HULSEHEATH TO MANCHESTER AIRPORT

# DAVENPORT GREEN TO ARDWICK

# HSE2

# HSE2

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial Invertebrate</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
Map Number <b>EC-11-542a-R3</b>				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190		HSE2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.					
Map Name <b>Other Protected and Notable Species (1)</b>		Scale at A3: 1:5,000 		Doc Number: 2DE01-MWJ-EV-MAP-M000-003446-P01		Date: 03/09/21		Community Area MA06: Hulseheath to Manchester Airport			



**Map Series Information:**

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-11-INDEX-MA07
Map Name	Index Map of: Other Protected and Notable Species (1)
	Community Area MA07: Davenport Green to Ardwick

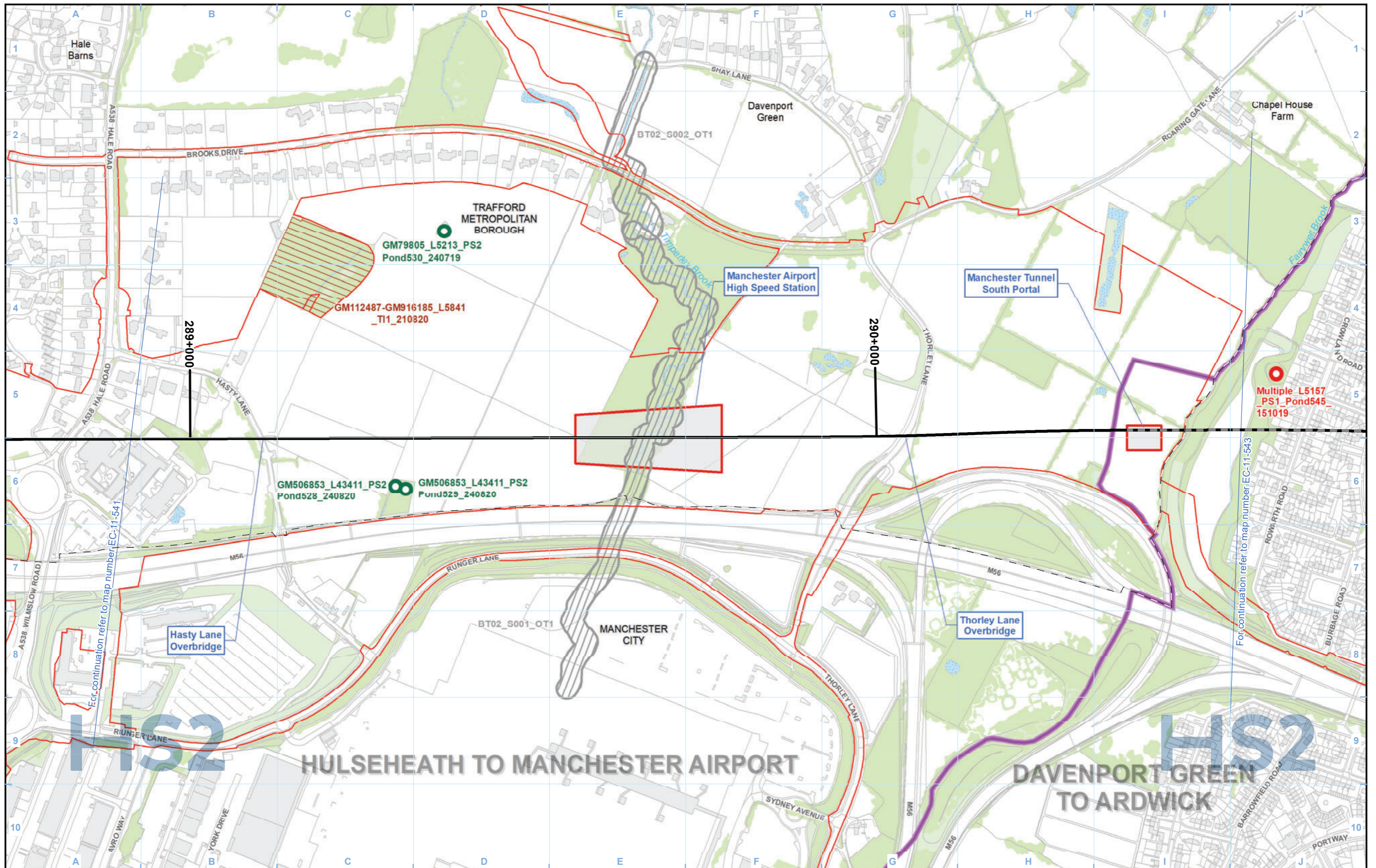
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Woodland (verified by survey)
	Active otter holt
	Potential otter holt
	Suitable habitat for otter
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	Fish survey location
	Terrestrial invertebrate
	Terrestrial invertebrate survey extent

Map Number	EC-11-542b
Map Name	Other Protected and Notable Species (1)
Community Area MA07: Davenport Green to Ardwick	

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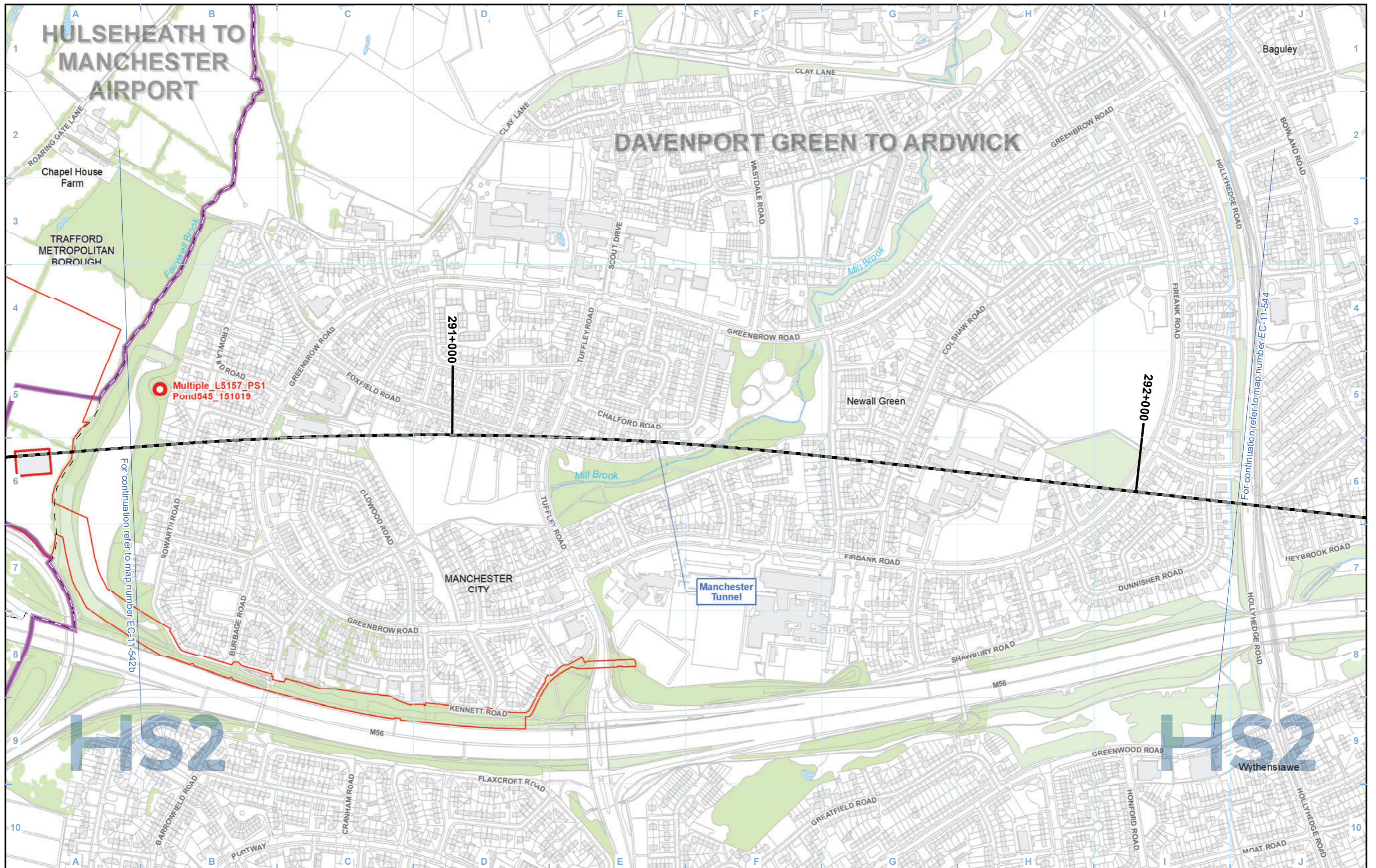
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001424-P01

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Metres

Date: 03/09/21



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Woodland (verified by survey)
- Otter:**
- Active otter holt
- Potential otter holt
- Suitable habitat for otter
- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available
- Pond survey:**
- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method
- Fish:**
- Fish survey location
- Terrestrial Invertebrate**
- Terrestrial invertebrate survey extent

For continuation refer to map number EC-11-542b

For continuation refer to map number EC-11-544

291+000

292+000

Manchester Tunnel

Map Number EC-11-543

Map Name Other Protected and Notable Species (1)

Community Area MA07: Davenport Green to Ardwick

**HS2**

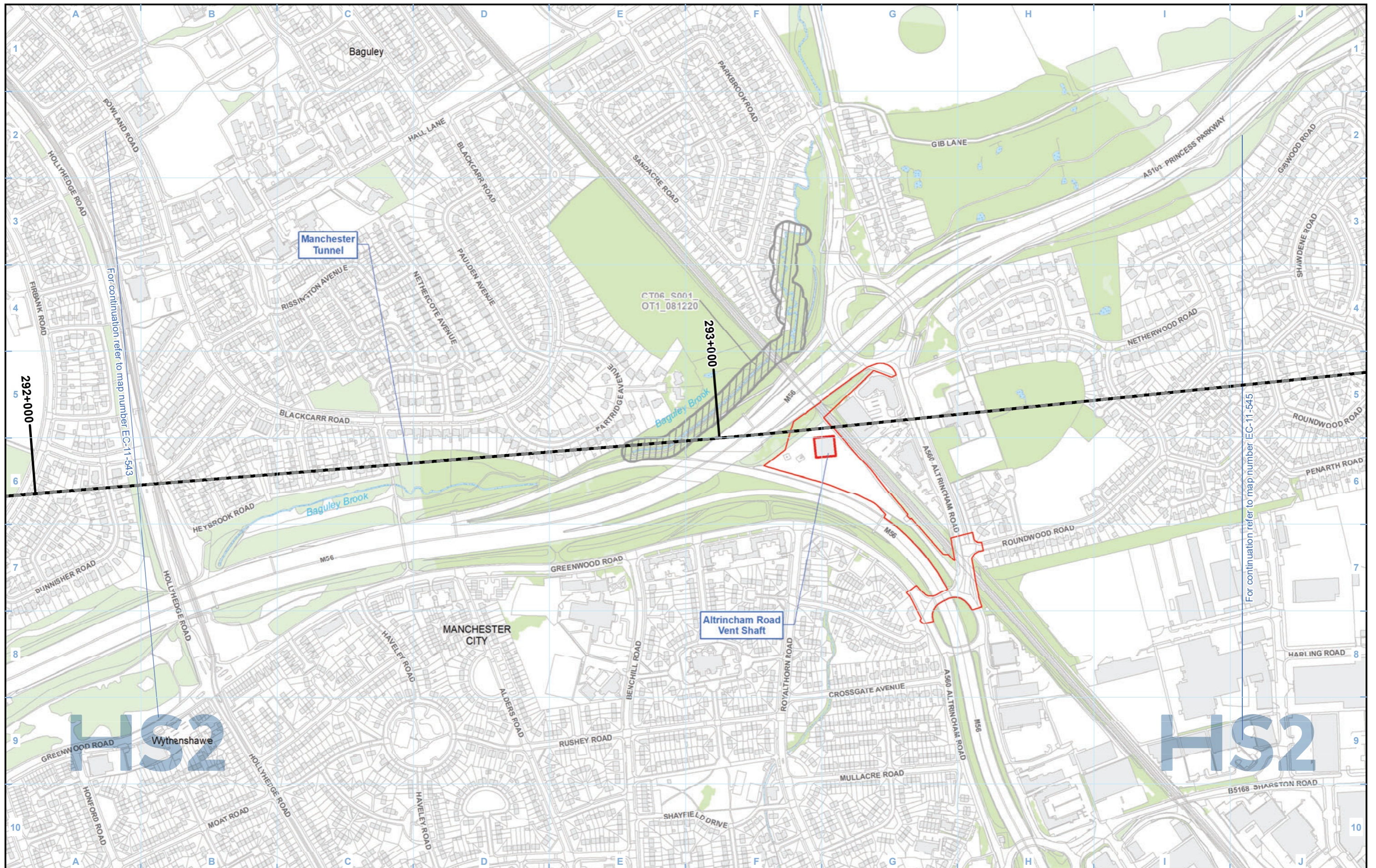
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Date: 03/09/21



- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number: EC-11-544

Map Name: Other Protected and Notable Species (1)

Community Area MA07:  
Davenport Green to Ardwick

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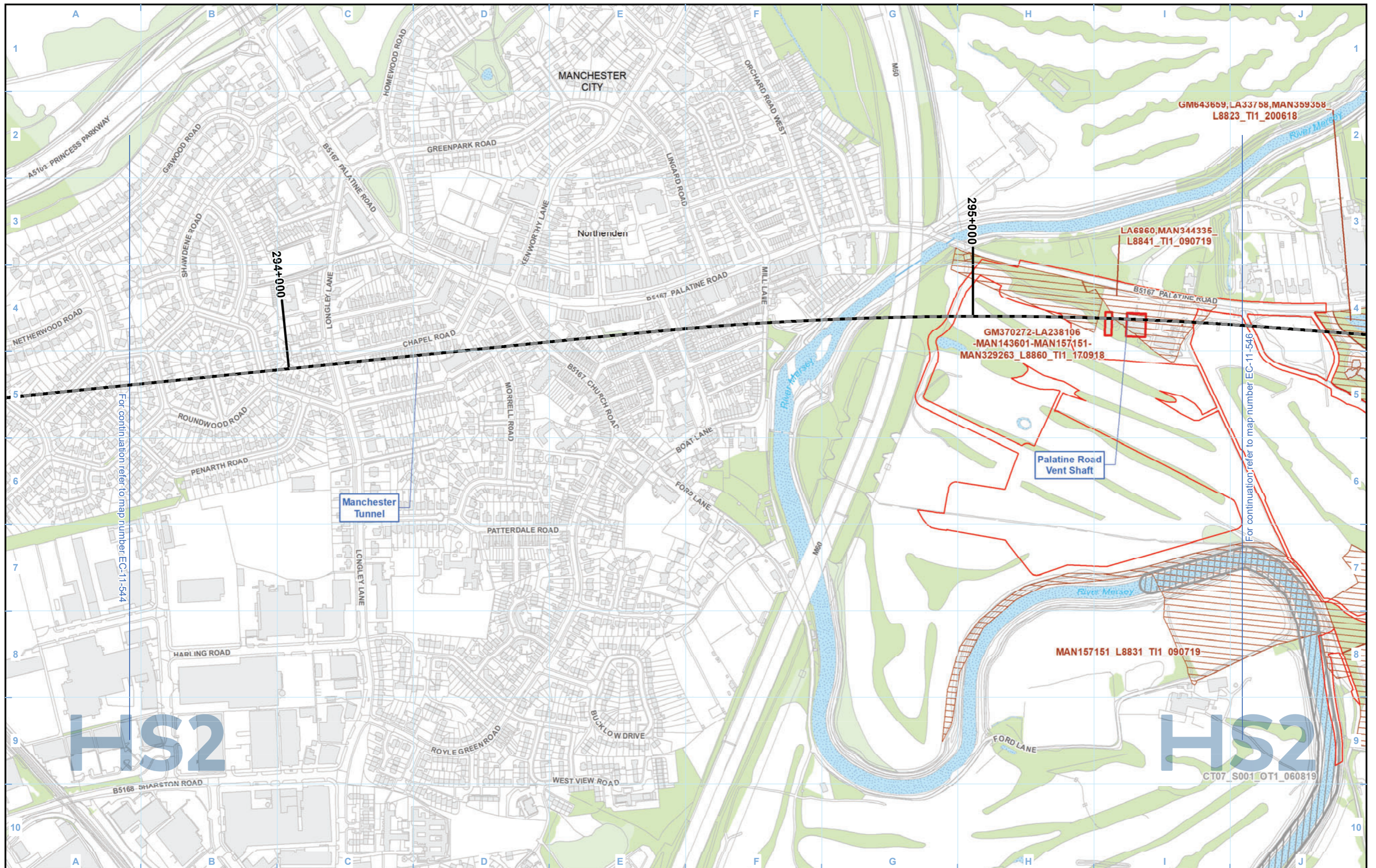
Date: 03/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres

For continuation refer to map number EC-11-545

For continuation refer to map number EC-11-543



For continuation refer to map number EC-11-544

For continuation refer to map number EC-11-546

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)
  - Otter:**
  - Active otter holt
  - Potential otter holt
  - Suitable habitat for otter
  - White clawed crayfish:**
  - Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available
  - Pond survey:**
  - Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method
  - Fish:**
  - Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number: EC-11-545

Map Name: Other Protected and Notable Species (1)

Community Area MA07: Davenport Green to Ardwick

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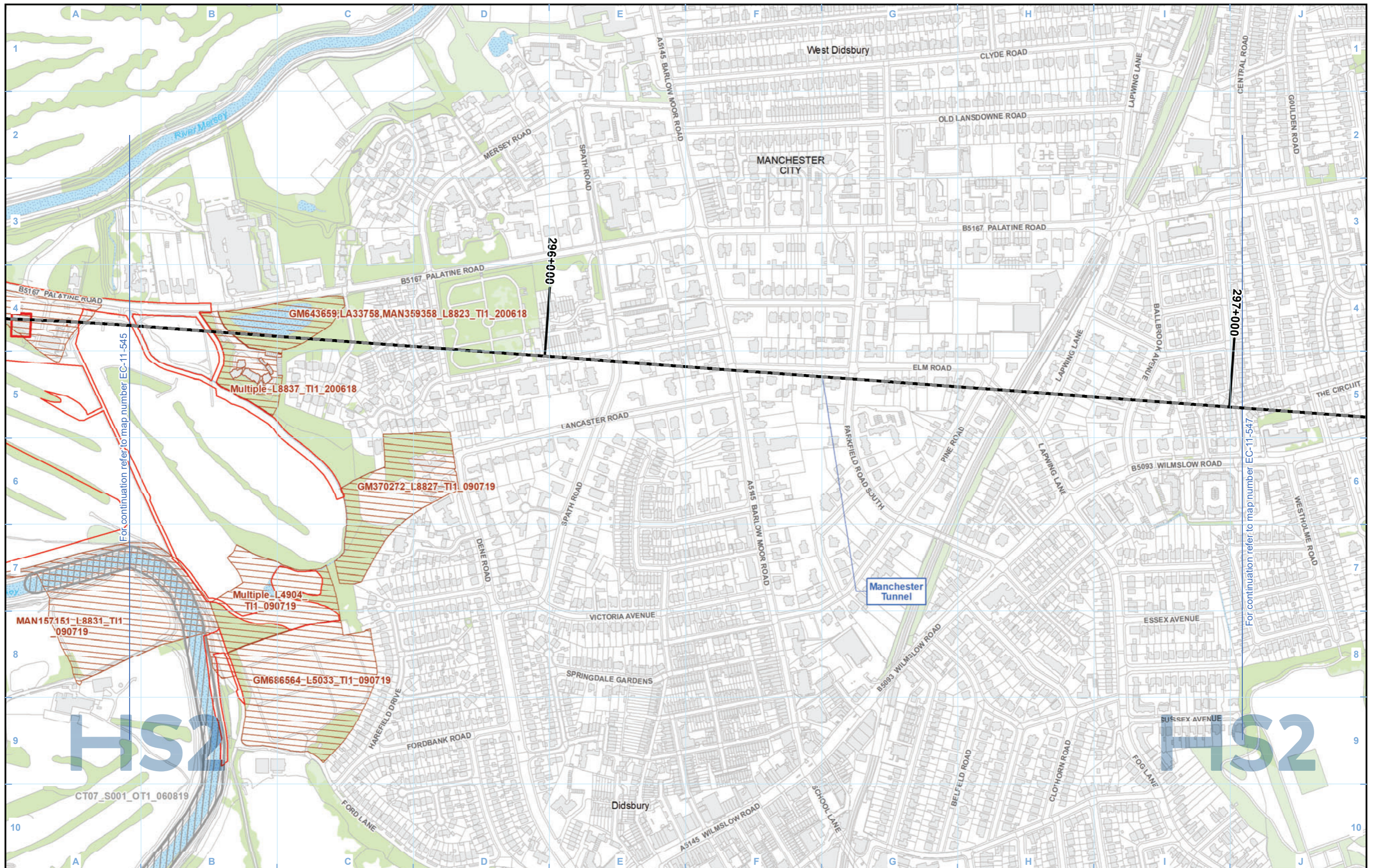
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For continuation refer to map number EC-11-545

For continuation refer to map number EC-11-547

MAN157151\_L8831\_T11\_090719

Multiple\_L4904\_T11\_090719

GM686564\_L5033\_T11\_090719

CT07\_S001\_OT1\_060819

West Didsbury

MANCHESTER CITY

Didsbury

CLYDE ROAD

OLD LANSDOWNE ROAD

B5167 PALATINE ROAD

ELM ROAD

B5093 WILMSLOW ROAD

ESSEX AVENUE

SUSSEX AVENUE

WATERCOURSE

WOODLAND (verified by survey)

OTTER:

- Active otter holt
- Potential otter holt
- Suitable habitat for otter

WHITE CLAWED CRAYFISH:

- Manual search and/or trapping conducted and presence confirmed
- Manual search and/or trapping conducted and assumed absent
- Site identified as potentially suitable but no access available

POND SURVEY:

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

FISH:

- Fish survey location
- Terrestrial Invertebrate
- Terrestrial invertebrate survey extent

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community area boundary

County boundary

District/Borough boundary

Map Number EC-11-546

Map Name Other Protected and Notable Species (1)

Community Area MA07: Davenport Green to Ardwick

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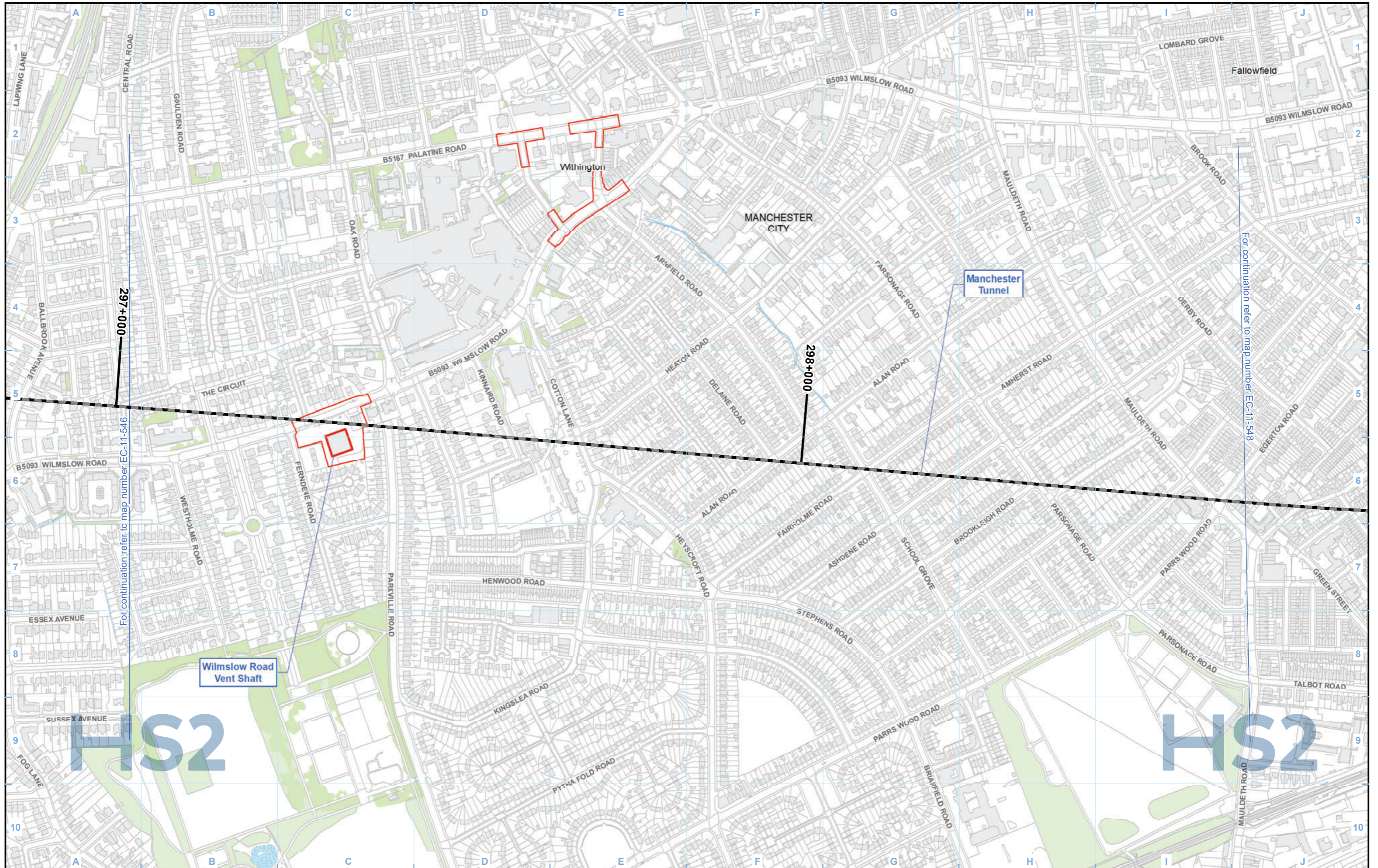
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Date: 03/09/21

Scale at A3: 1:5,000

Metres





297+000  
For continuation refer to map number EC-11-546

298+000

For continuation refer to map number EC-11-548

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Woodland (verified by survey)
  - Otter:**
  - Active otter holt
  - Potential otter holt
  - Suitable habitat for otter
  - White clawed crayfish:**
  - Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available
  - Pond survey:**
  - Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method
  - Fish:**
  - Fish survey location
  - Terrestrial Invertebrate**
  - Terrestrial invertebrate survey extent

Map Number  
**EC-11-547**

Map Name  
**Other Protected and Notable Species (1)**

Community Area MA07:  
Davenport Green to Ardwick

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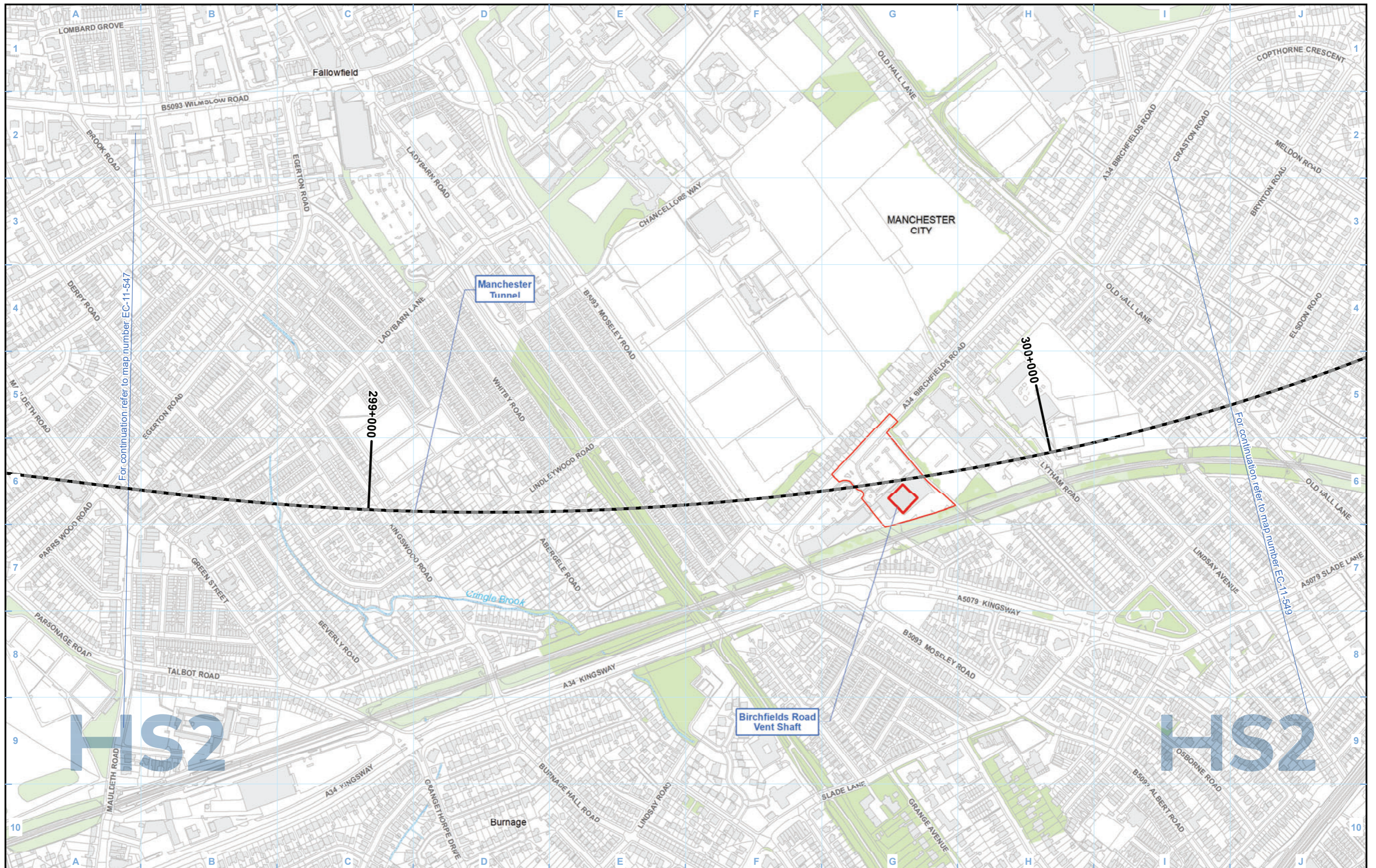
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Scale at A3: 1:5,000

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Metres

Date: 03/09/21



For continuation refer to map number EC-11-547

For continuation refer to map number EC-11-549

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate survey extent

Map Number: EC-11-548

Map Name: Other Protected and Notable Species (1)

Community Area MA07: Davenport Green to Ardwick

**HS2**

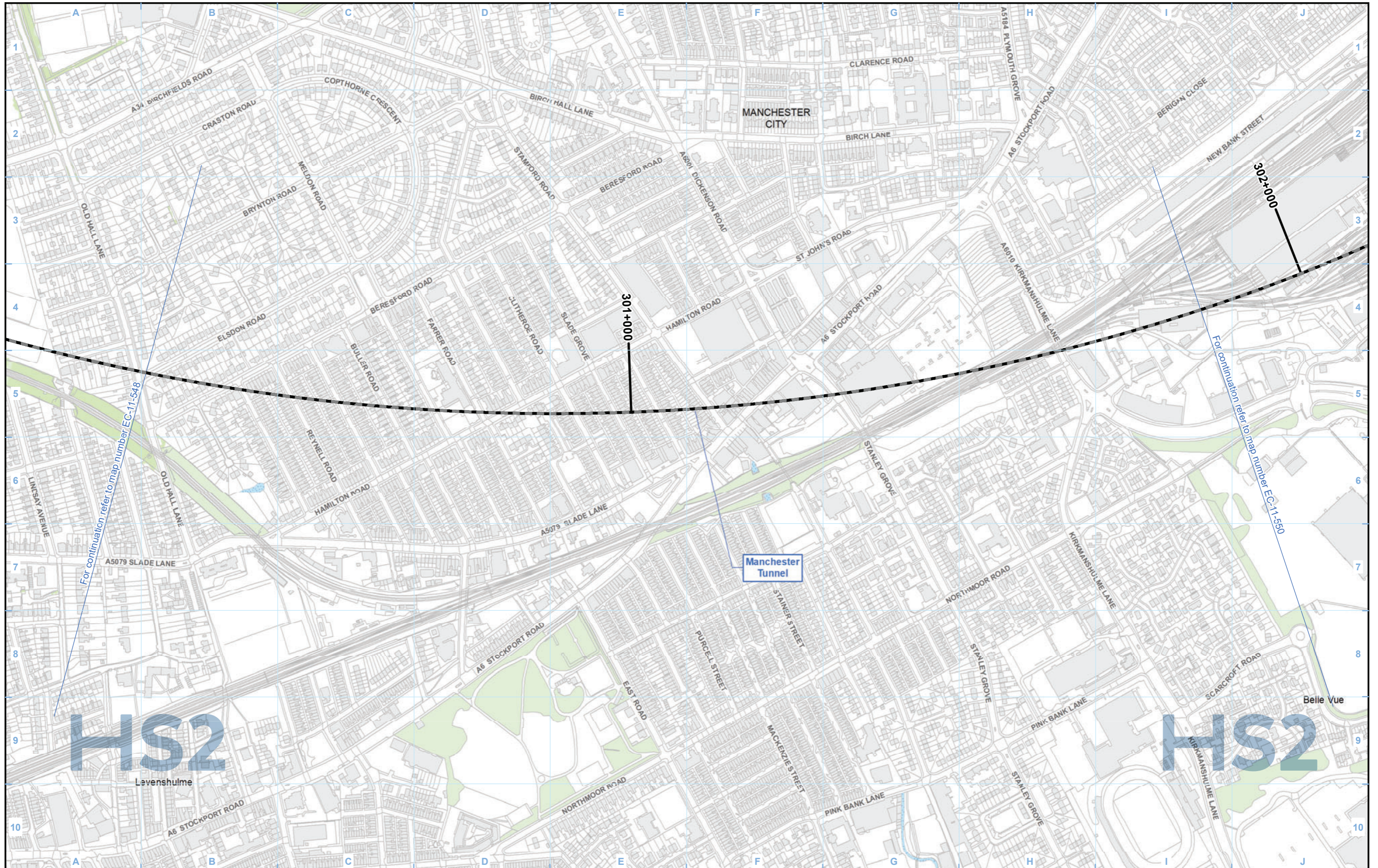
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Date: 03/09/21



Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial Invertebrate
	Depot, station, headhouse or portal building		Suitable habitat for otter		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		Terrestrial invertebrate survey extent
	Land potentially required during construction								
	Community area boundary								
	County boundary								
	District/Borough boundary								
	Watercourse								
	Woodland (verified by survey)								

Map Number	EC-11-549
Map Name	Other Protected and Notable Species (1)
	Community Area MA07: Davenport Green to Ardwick

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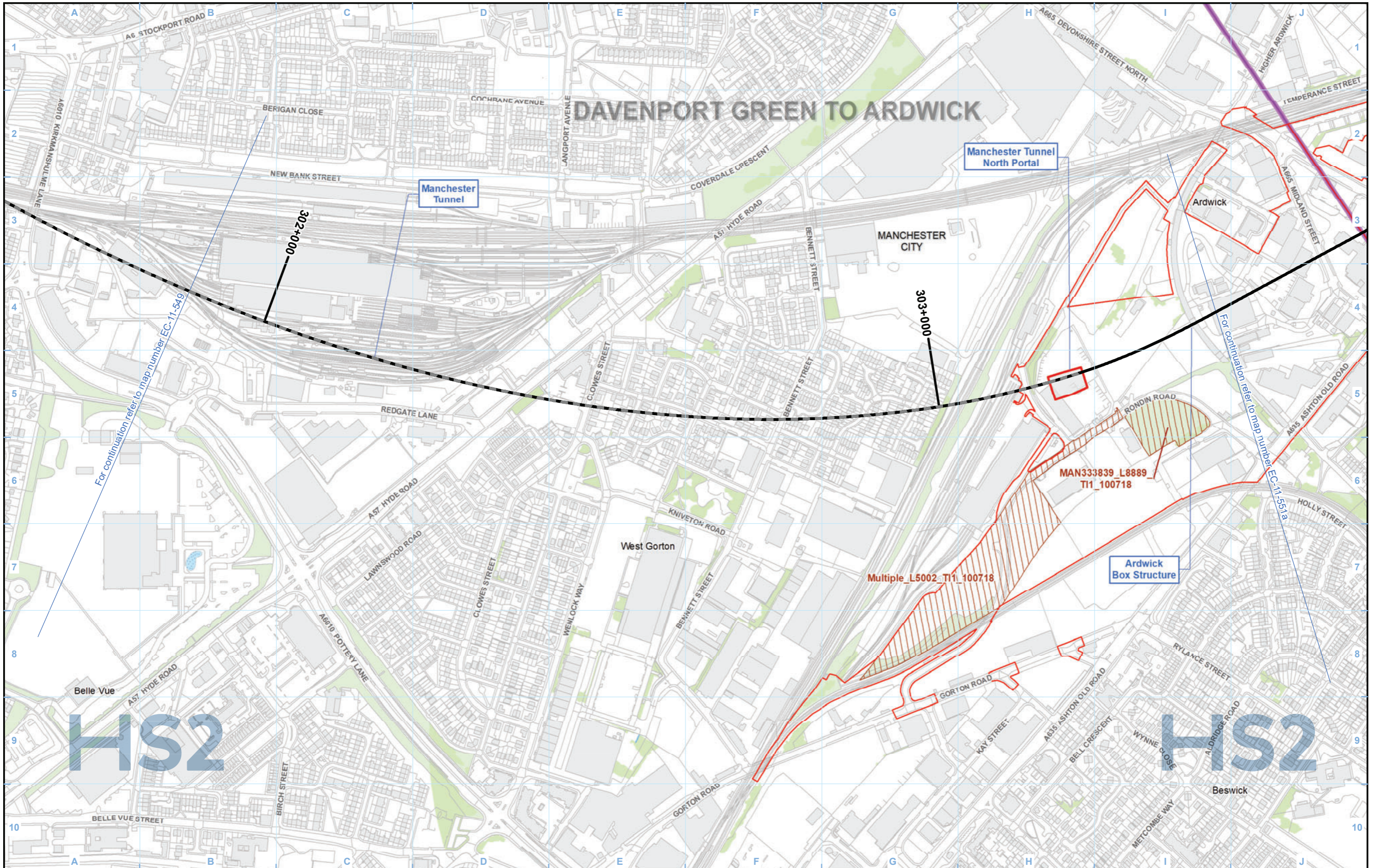
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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number: EC-11-550

Map Name: Other Protected and Notable Species (1)

Community Area MA07: Davenport Green to Ardwick

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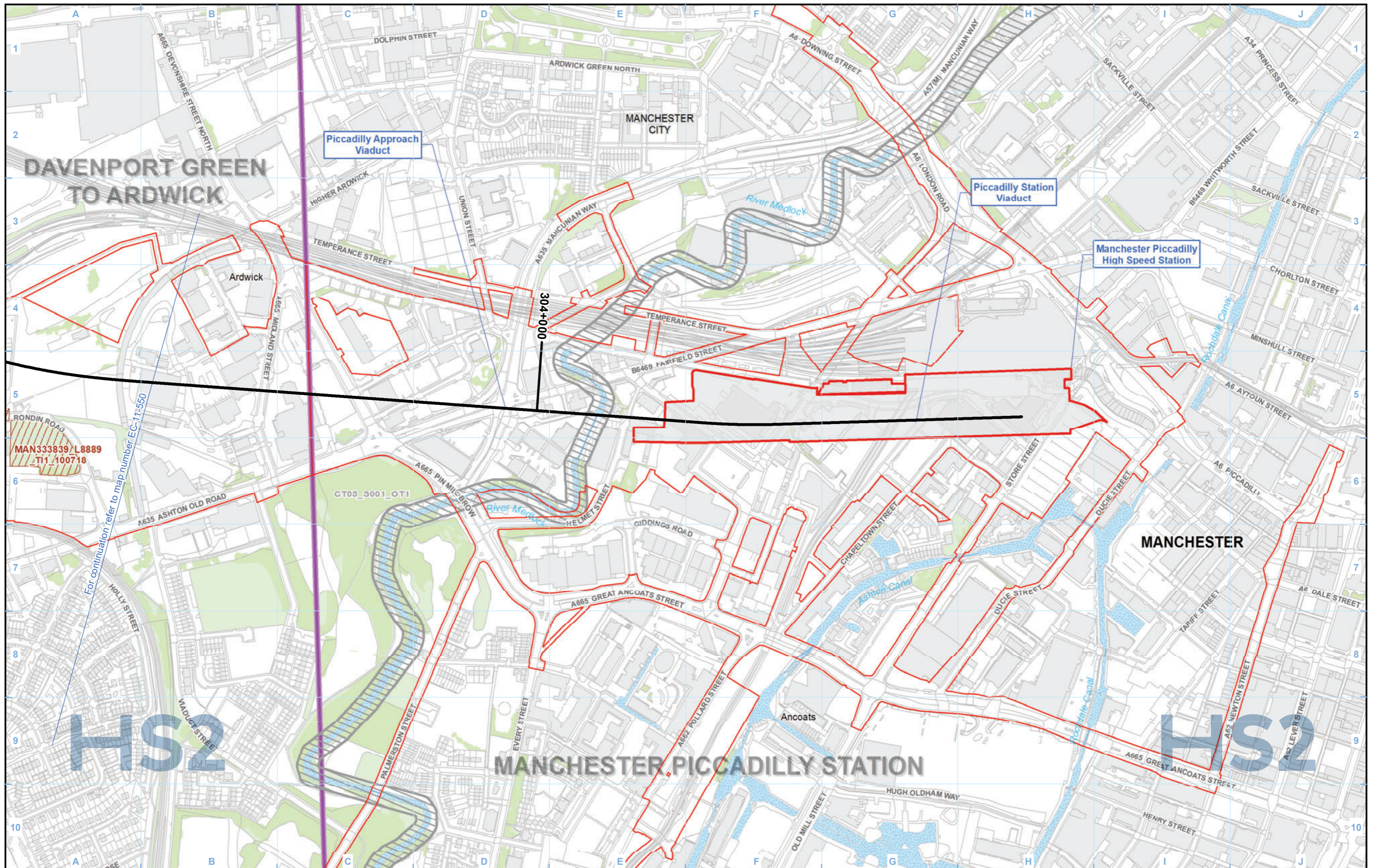
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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate survey extent

Map Number: EC-11-551a

Map Name: Other Protected and Notable Species (1)

Community Area MA07: Davenport Green to Ardwick

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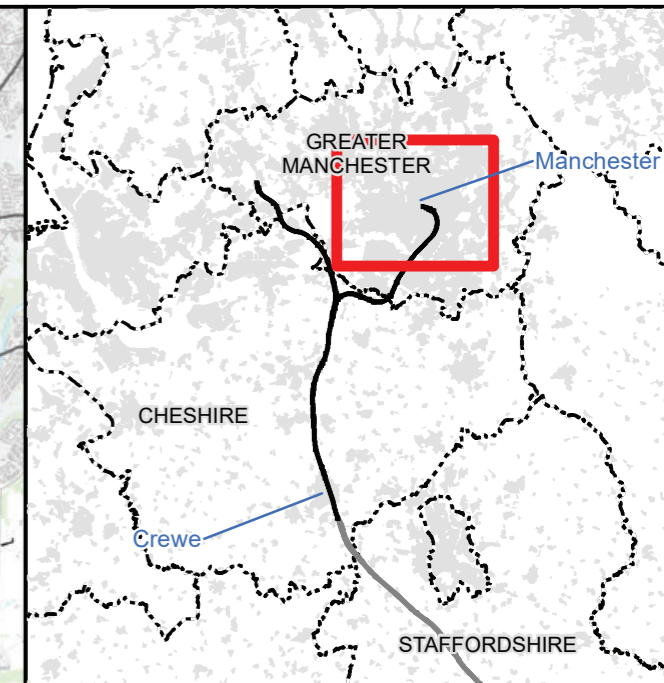
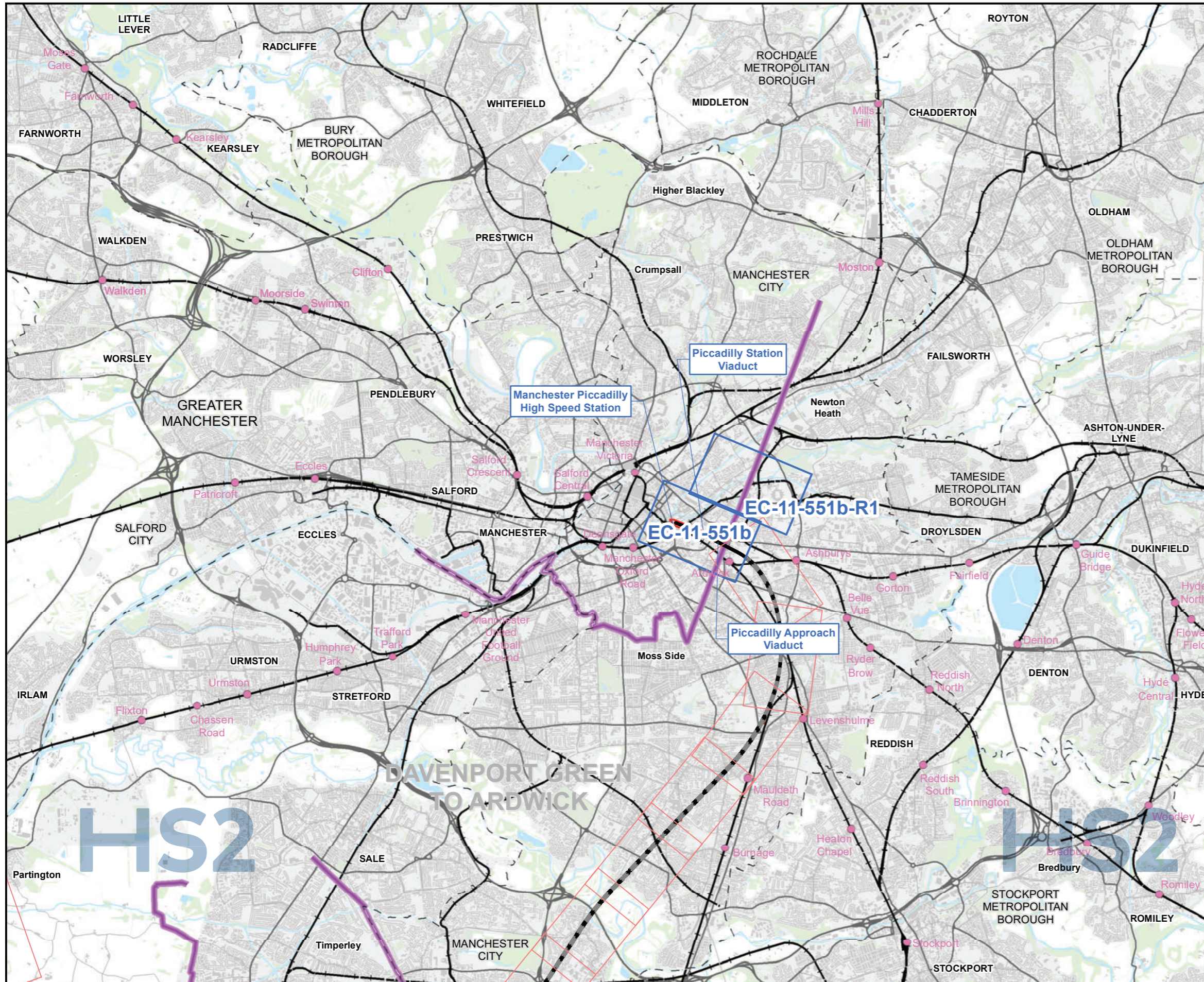
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Date: 03/09/21

Scale at A3: 1:5,000

Metres

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### Map Series Information:

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

Main Map Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	Existing railway station
	County boundary
	District/Borough boundary
	Map sheets included in this community area
	Map sheets not included in this community area

Map Number	EC-11-INDEX-MA08
Map Name	Index Map of: Other Protected and Notable Species (1)
Community Area MA08: Manchester Piccadilly Station	

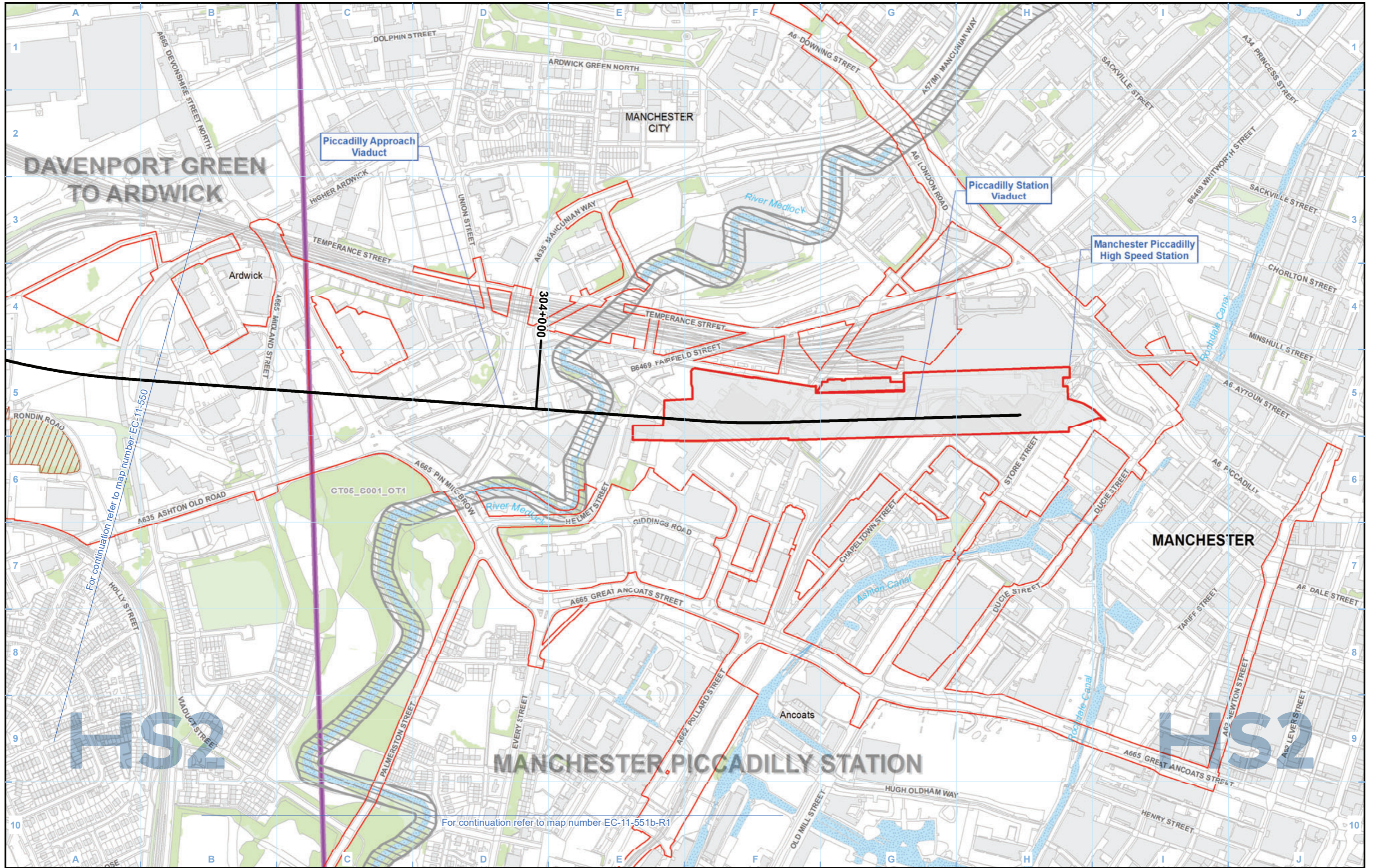
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**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Woodland (verified by survey)</li> </ul>	<p>Otter:</p> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Suitable habitat for otter</li> </ul>	<p>White clawed crayfish:</p> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>	<p>Pond survey:</p> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>	<p>Fish:</p> <ul style="list-style-type: none"> <li> Fish survey location</li> <li> Terrestrial invertebrate survey extent</li> </ul>
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Map Number: EC-11-551b

Map Name: Other Protected and Notable Species (1)

Community Area MA08: Manchester Piccadilly Station

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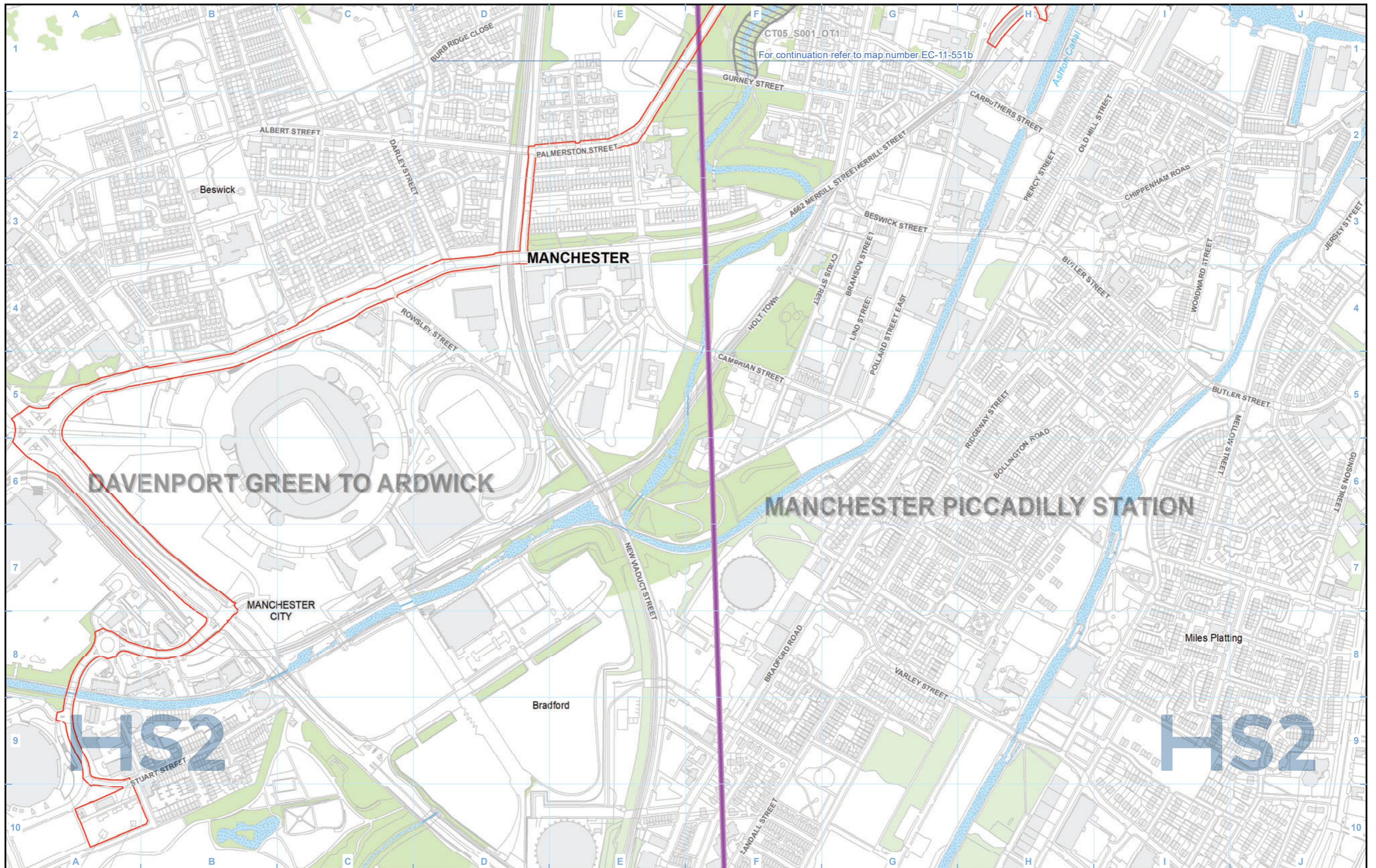
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001434-P01

Date: 03/09/21





For continuation refer to map number EC-11-551b

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Suitable habitat for otter

- White clawed crayfish:**
- Manual search and/or trapping conducted and presence confirmed
  - Manual search and/or trapping conducted and assumed absent
  - Site identified as potentially suitable but no access available

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial Invertebrate
  - Terrestrial invertebrate survey extent

Map Number EC-11-551b-R1

Map Name Other Protected and Notable Species (1)

Community Area MA08: Manchester Piccadilly Station

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Date: 03/09/21

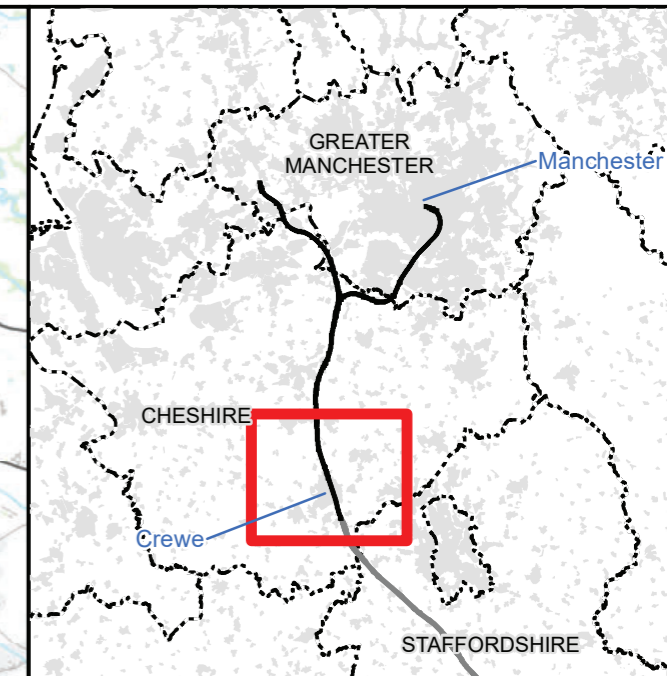
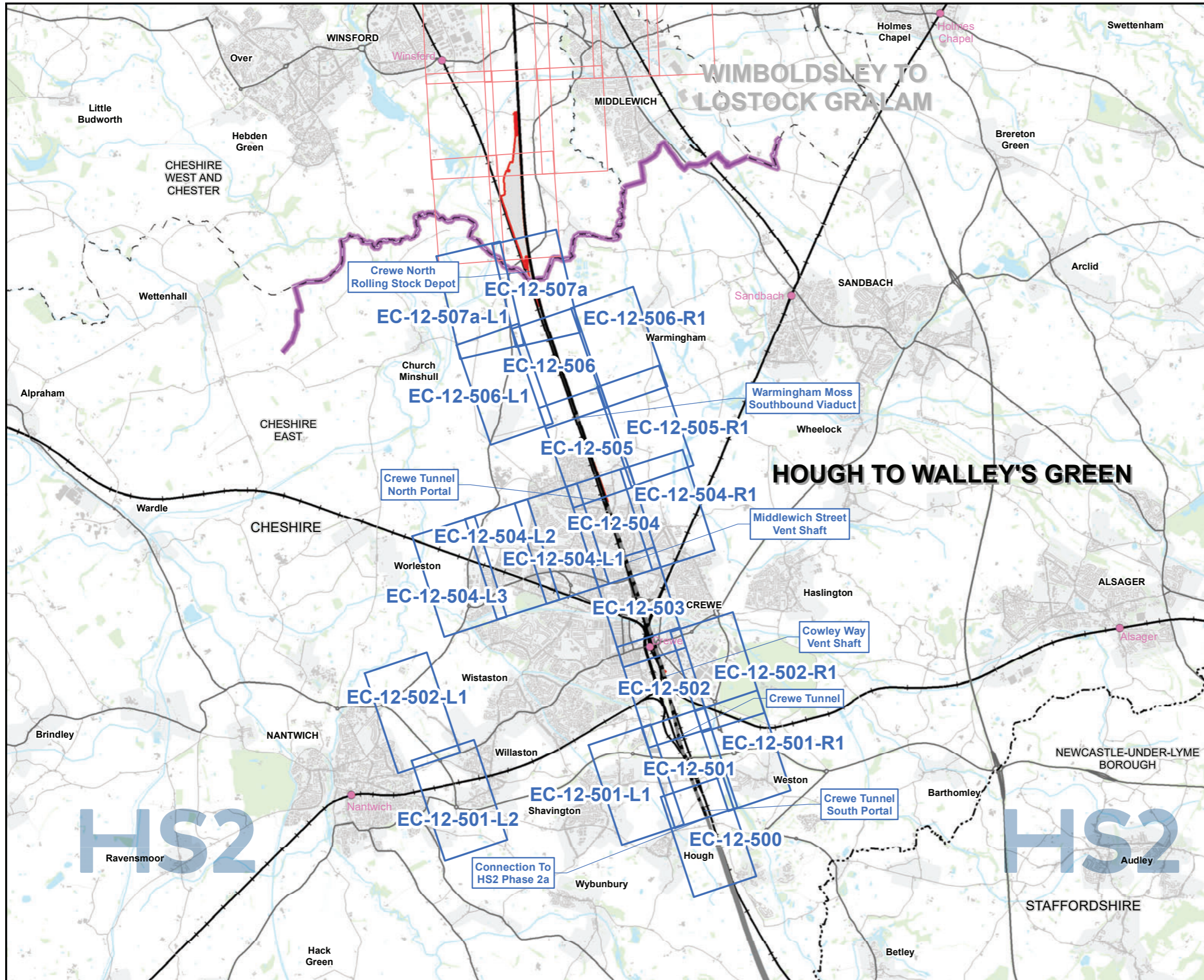
Scale at A3: 1:5,000

Metres

## **High Speed Rail (Crewe – Manchester)**

Background Information and Data

EC-12 - Other Protected and Notable Species (2)



**Map Series Information:**  
 This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number	EC-12-INDEX-MA01
Map Name	Index Map of: Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

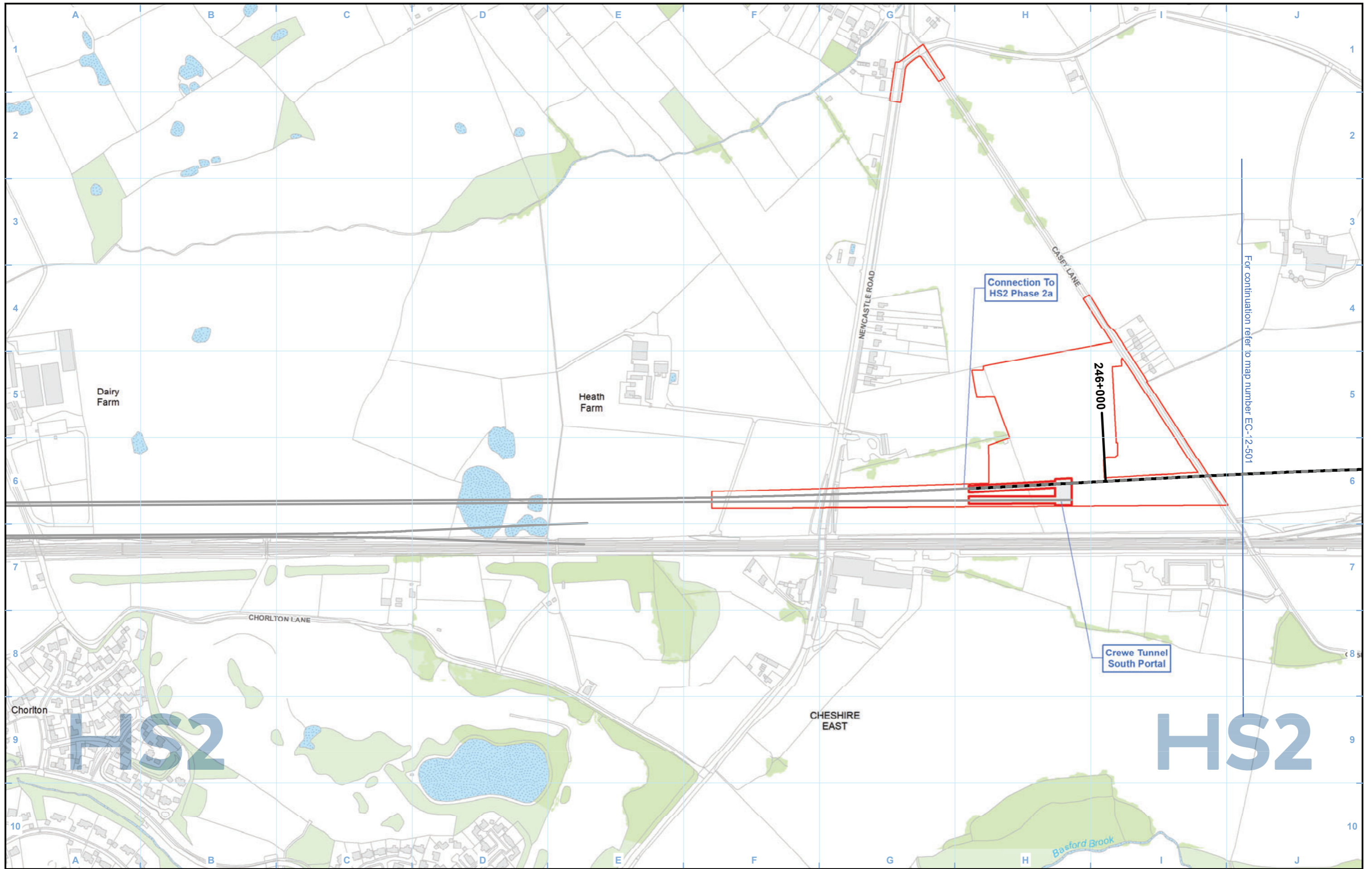
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001585-P01 Date: 05/08/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-500
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

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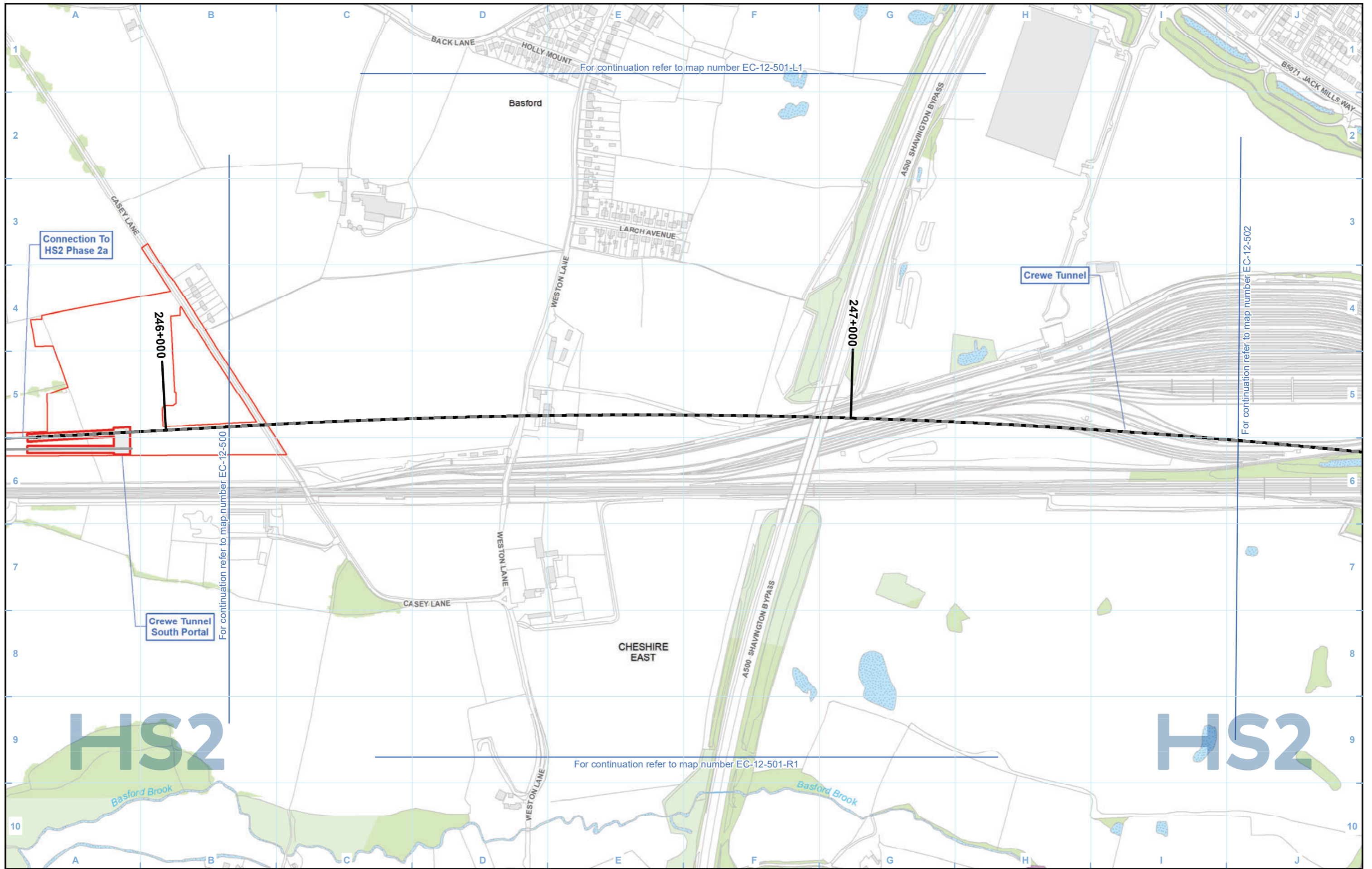
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003448-P01

Scale at A3: 1:5,000

Metres

Date: 10/08/21



Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Aquatic invertebrate survey location
	Community area boundary		Water vole survey undertaken - presence confirmed
	County boundary		Water vole survey undertaken - assumed absent
	District/Borough boundary		Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-501
Map Name	Other Protected and Notable Species (2)
Community Area MA01: Hough to Walley's Green	

**HS2**

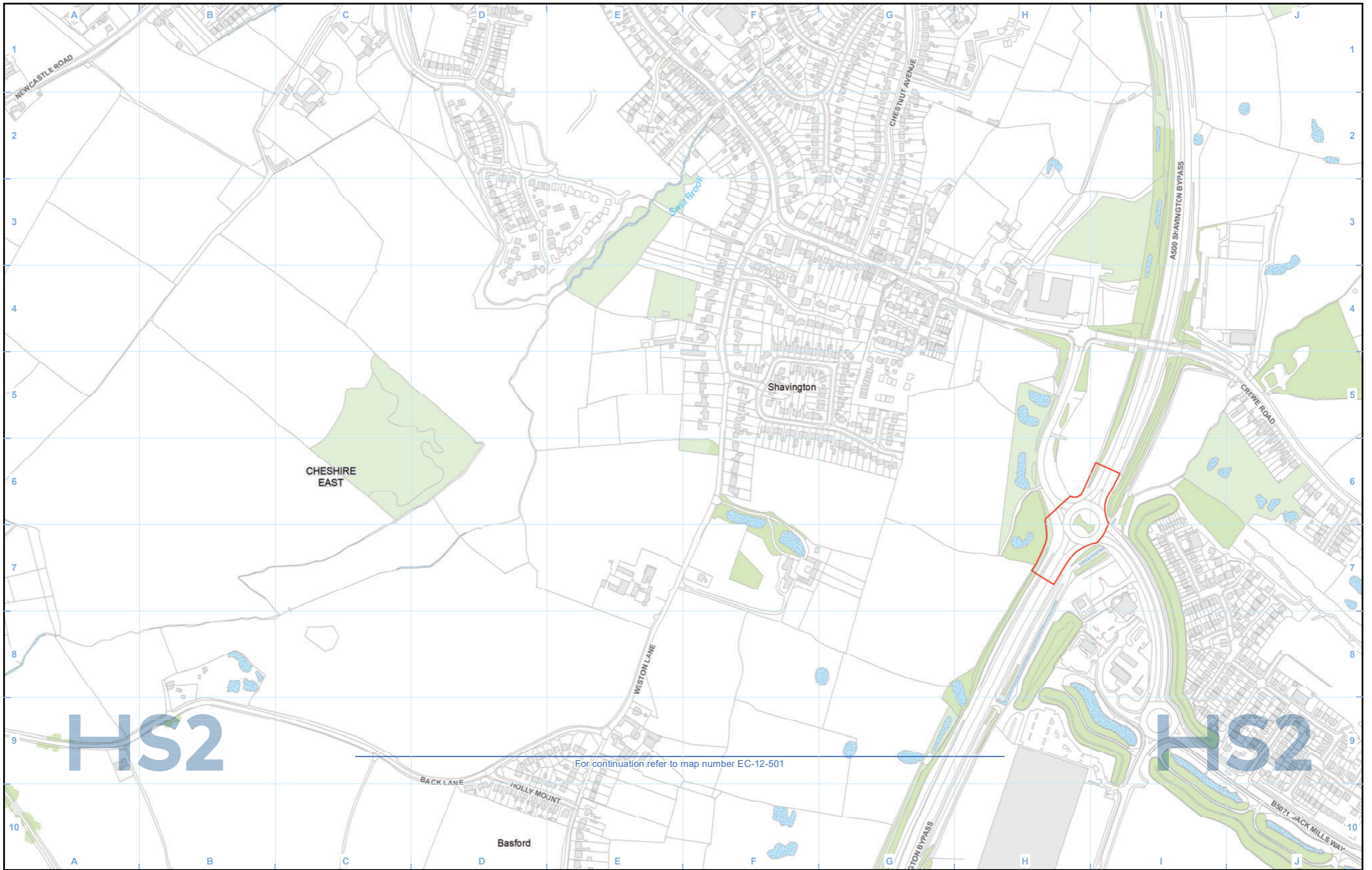
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Date: 10/08/21

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Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

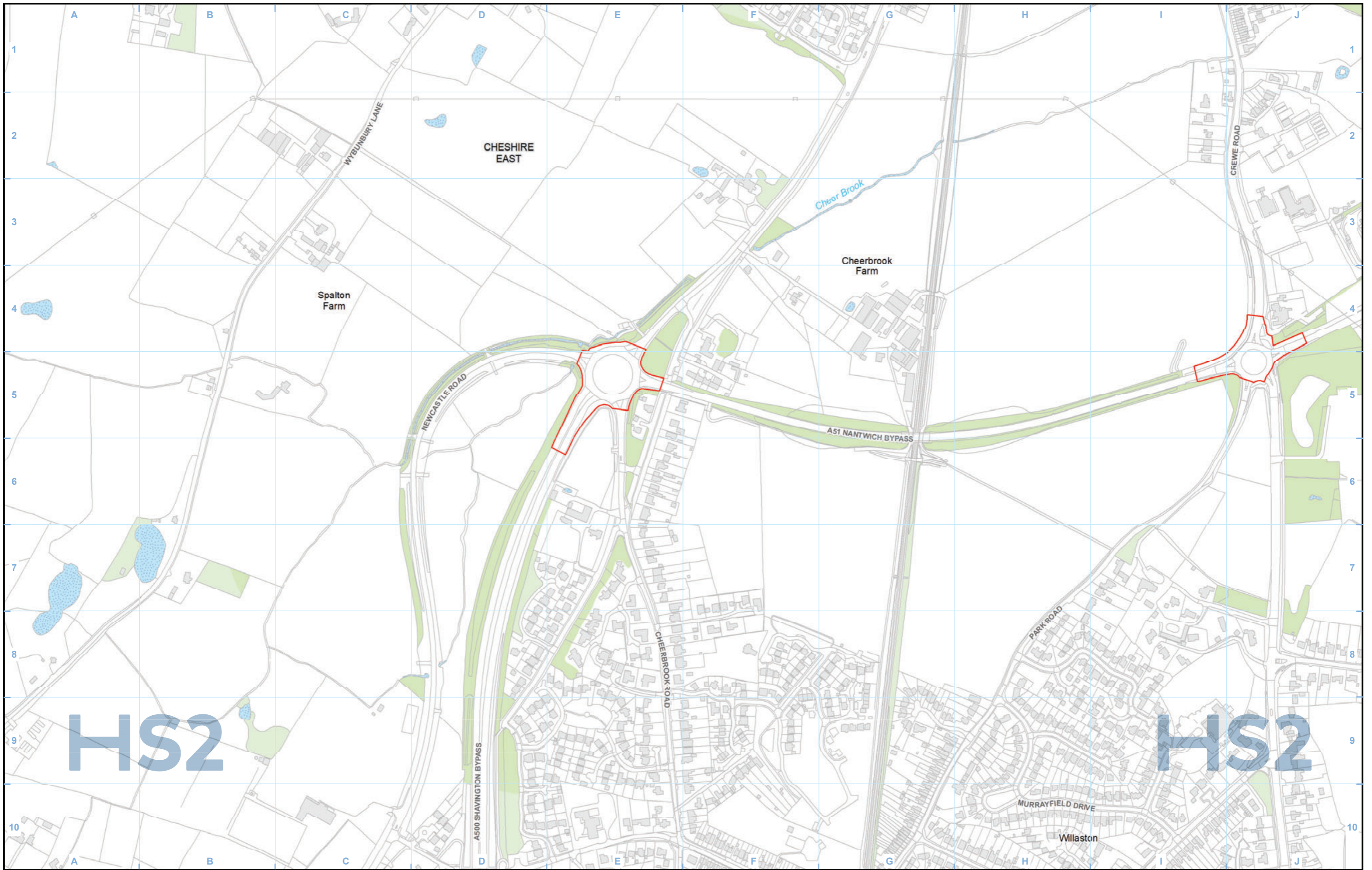
Map Number	EC-12-501-L1
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

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Date: 10/08/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-501-L2
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

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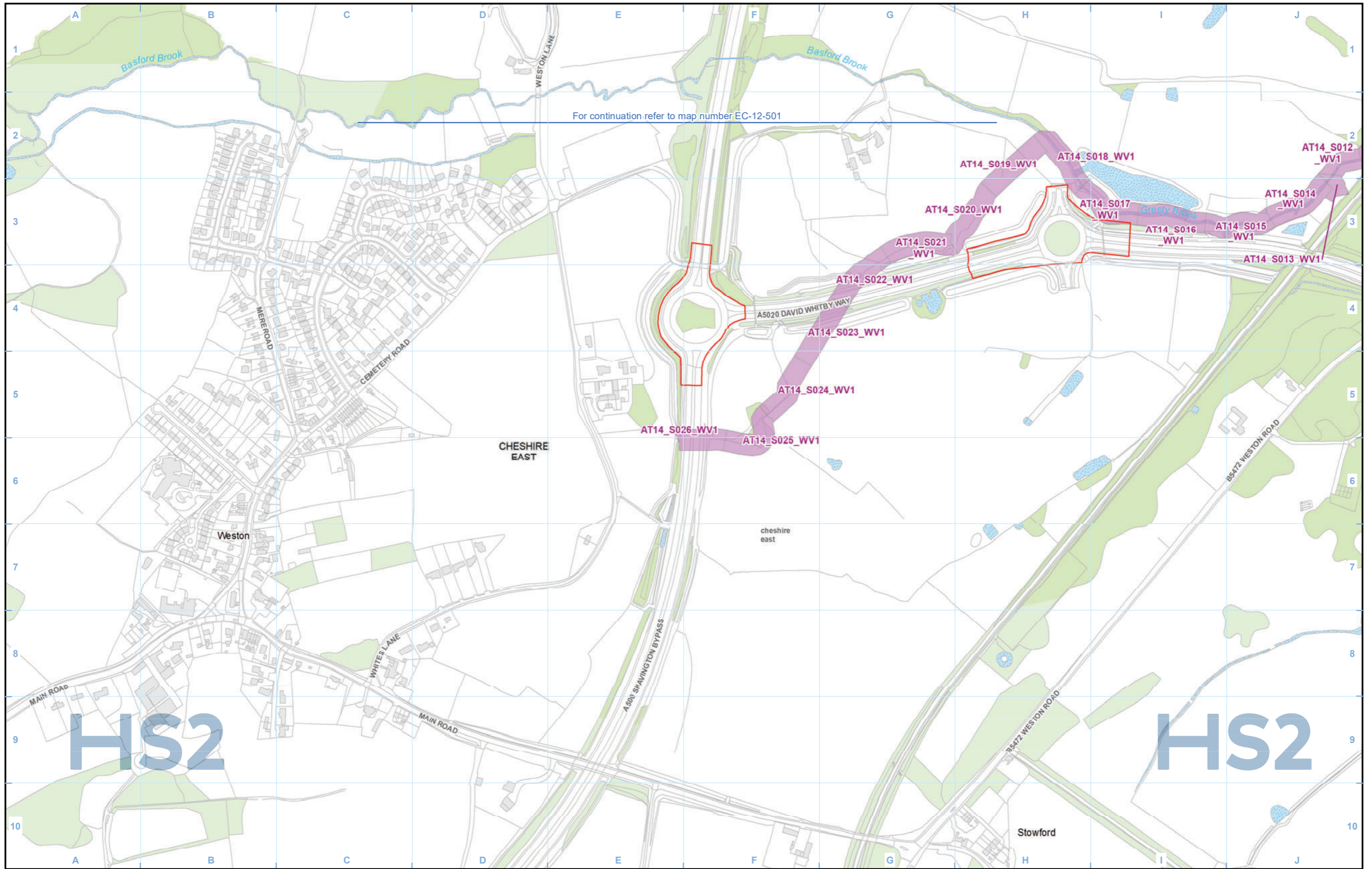
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003450-P01

Scale at A3: 1:5,000

Metres

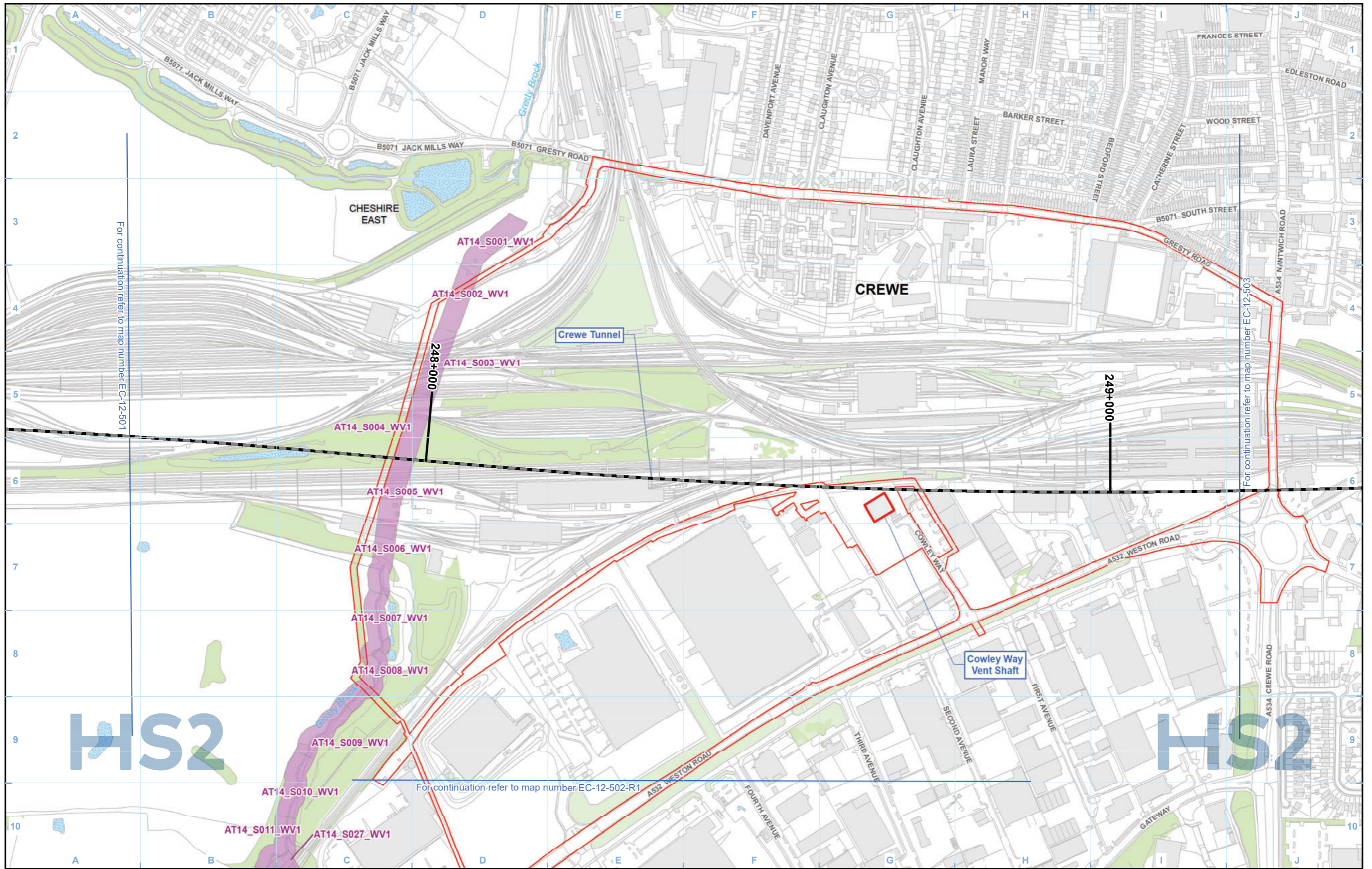
Date: 10/08/21



For continuation refer to map number EC-12-501

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-501-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA01:</b> Hough to Walley's Green		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003451-P01</small>	
				<b>Date: 10/08/21</b>	





**Legend**

		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

For continuation refer to map number EC-12-501
248+000
249+000
For continuation refer to map number EC-12-503
For continuation refer to map number EC-12-502-R1

Map Number	EC-12-502
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

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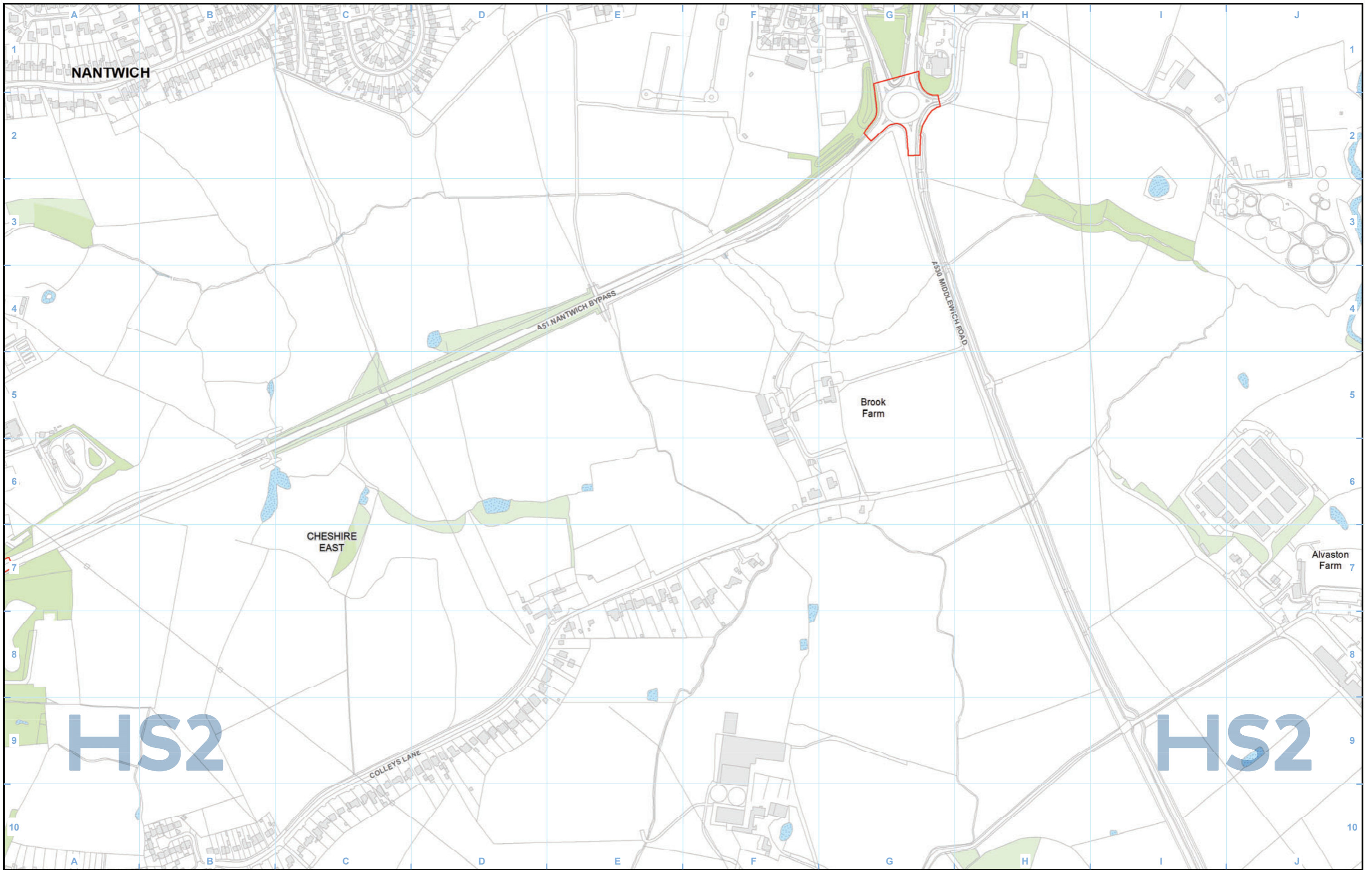
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001513-P01

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**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number **EC-12-502-L1**

Map Name **Other Protected and Notable Species (2)**

Community Area MA01:  
Hough to Walley's Green

**HS2**

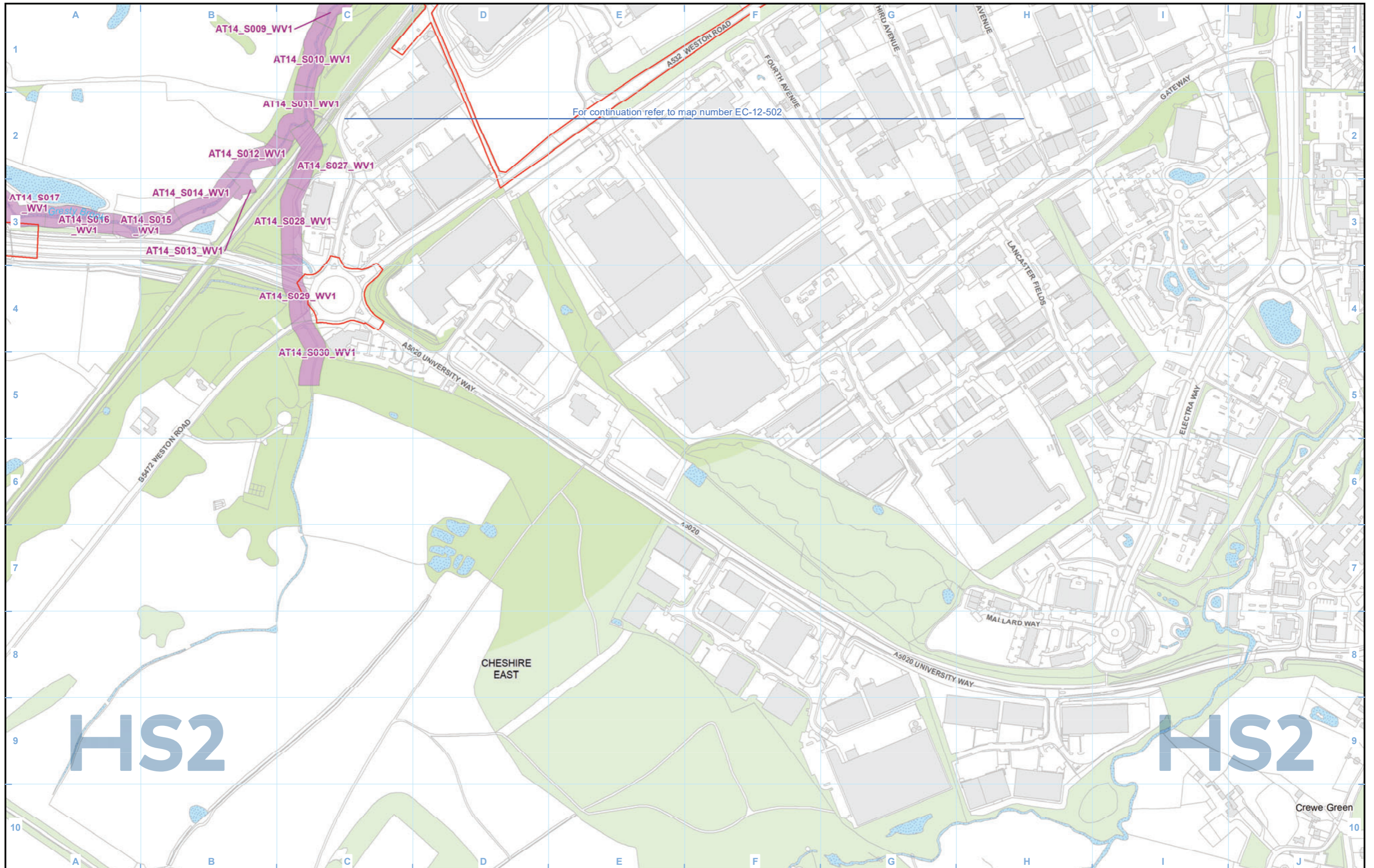
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Date: 10/08/21



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**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number **EC-12-502-R1**

Map Name **Other Protected and Notable Species (2)**

Community Area MA01:  
Hough to Walley's Green

**HS2**

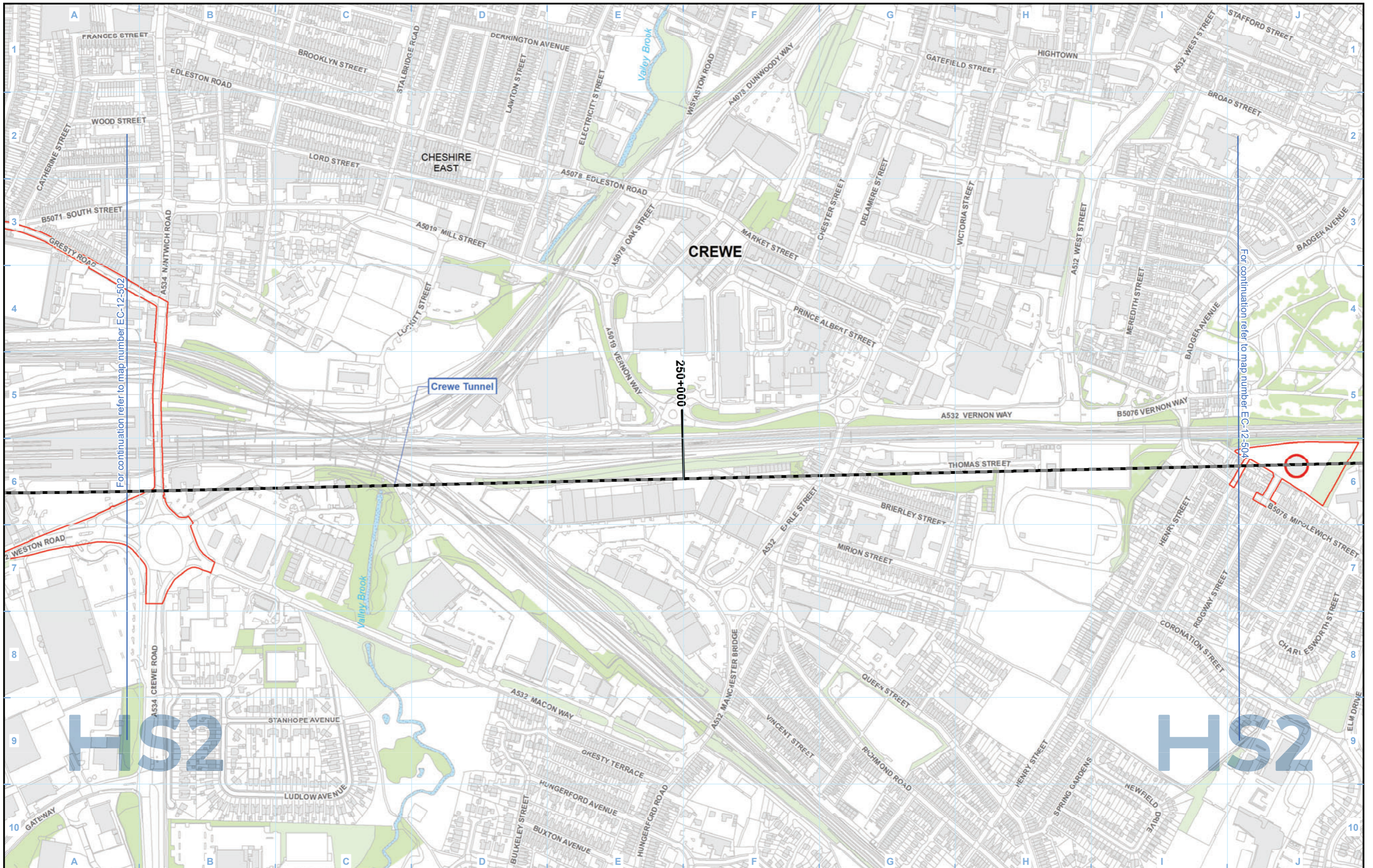
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For continuation refer to map number EC-12-502

For continuation refer to map number EC-12-504

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-503
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

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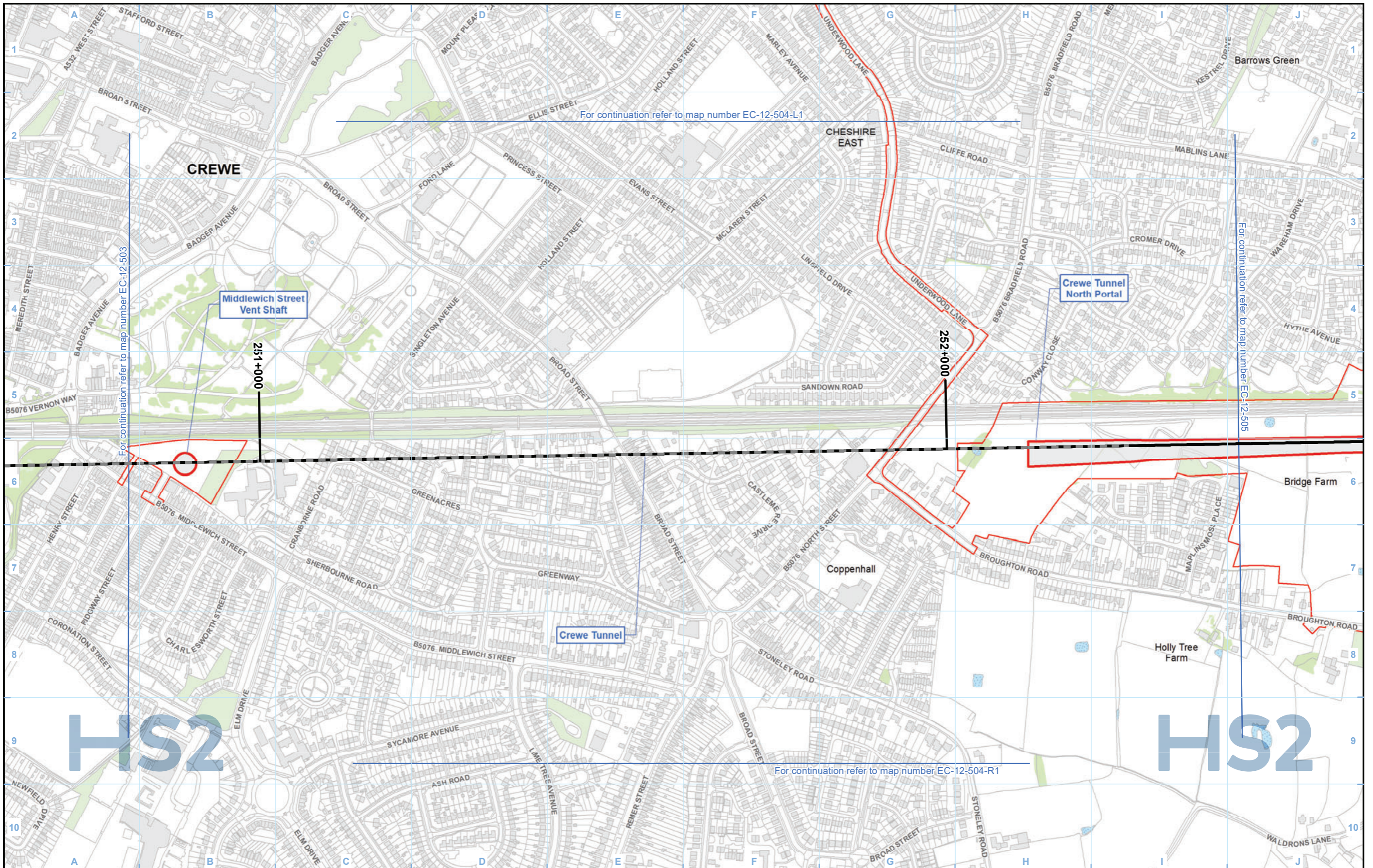
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Metres

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For continuation refer to map number EC-12-503

For continuation refer to map number EC-12-504-L1

For continuation refer to map number EC-12-505

For continuation refer to map number EC-12-504-R1

**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number	EC-12-504
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

**HS2**

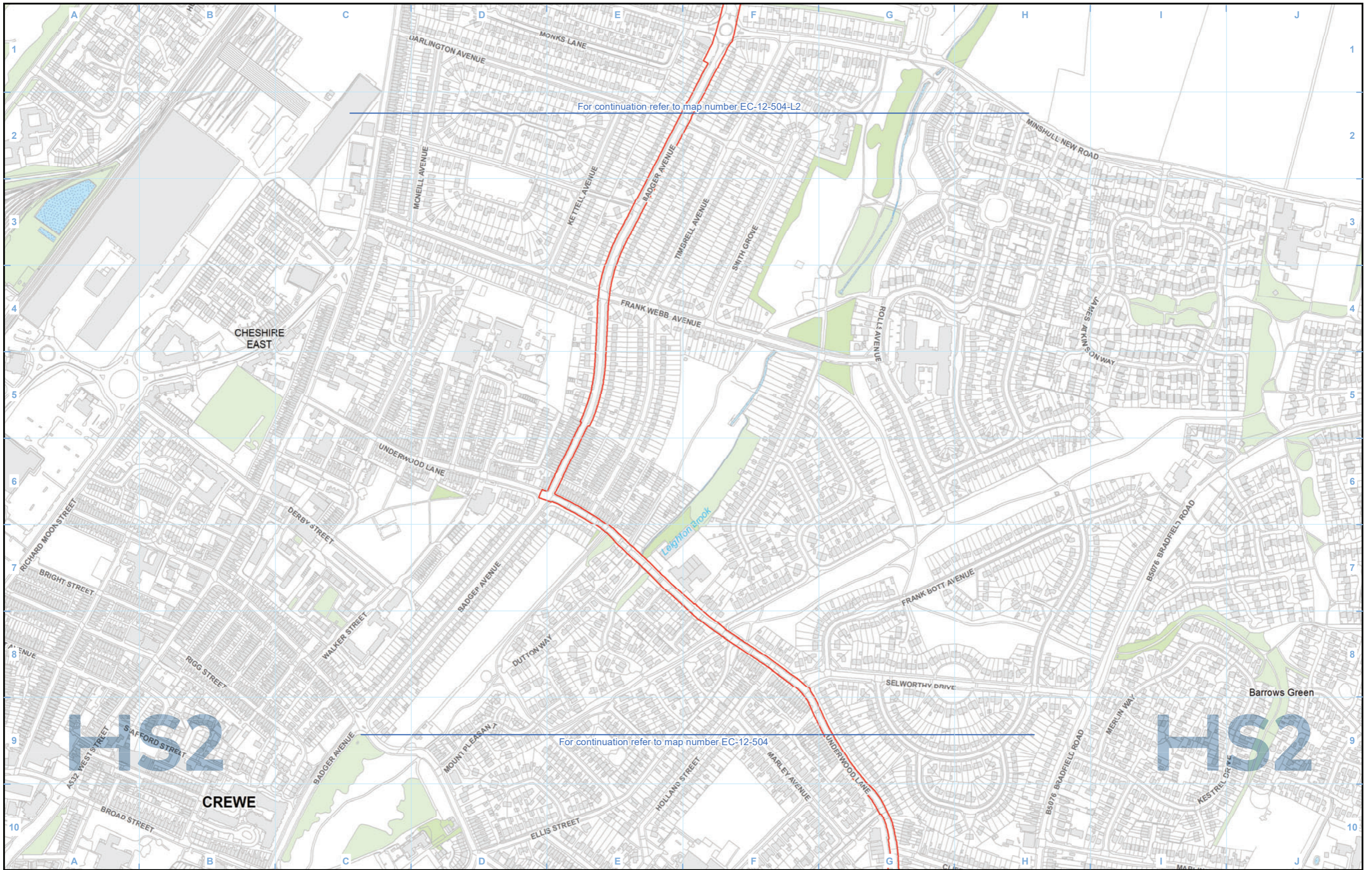
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001515-P01

Date: 10/08/21



Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Aquatic invertebrate survey location
	Community area boundary		Water vole survey undertaken - presence confirmed
	County boundary		Water vole survey undertaken - assumed absent
	District/Borough boundary		Watercourse potentially suitable for water vole - no or limited access for survey

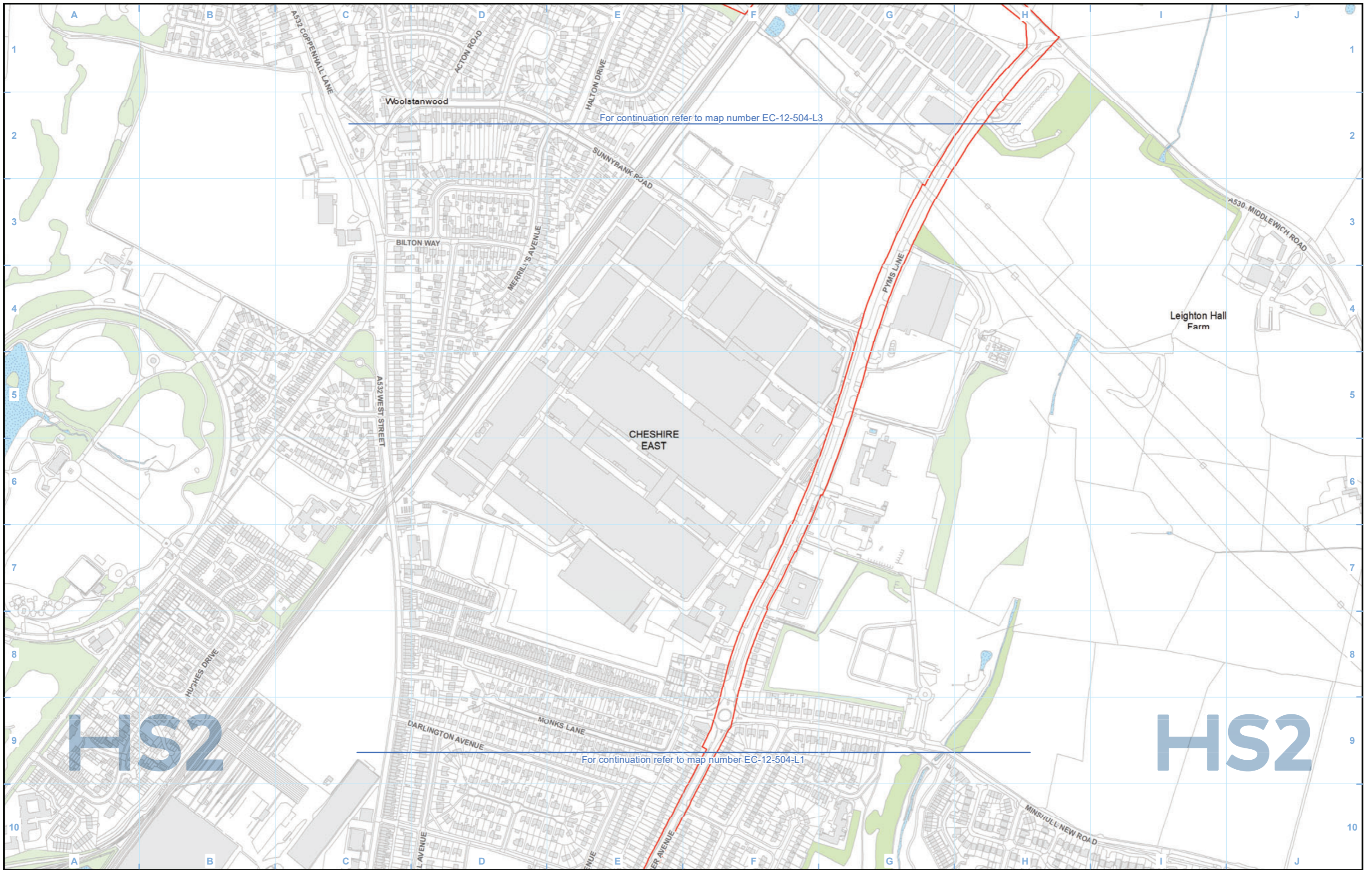
Map Number	EC-12-504-L1
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

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Date: 10/08/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-504-L2
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

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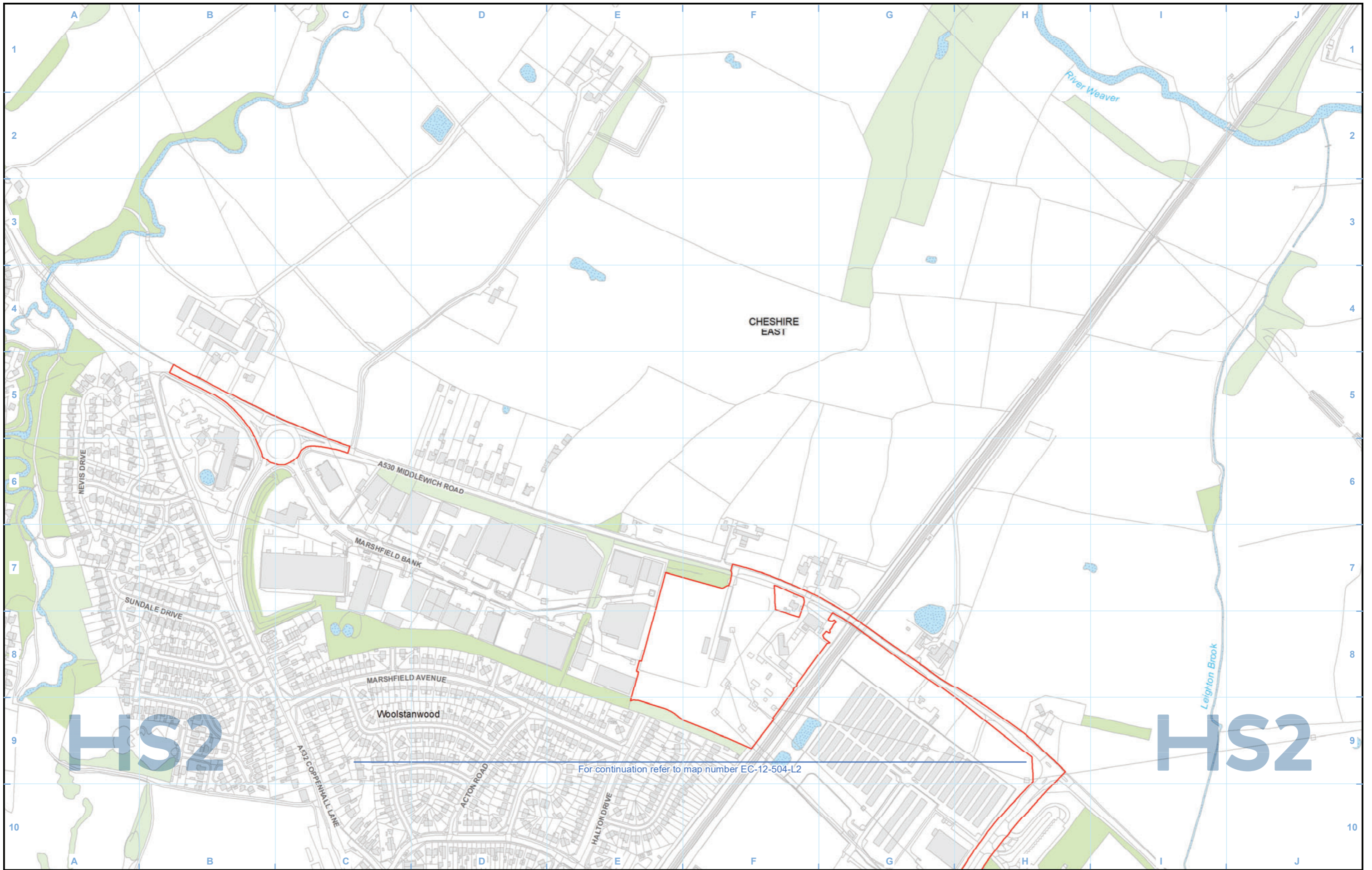
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003455-P01

Scale at A3: 1:5,000

Metres

Date: 10/08/21



For continuation refer to map number EC-12-504-L2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number **EC-12-504-L3**

Map Name **Other Protected and Notable Species (2)**

Community Area MA01:  
Hough to Walley's Green

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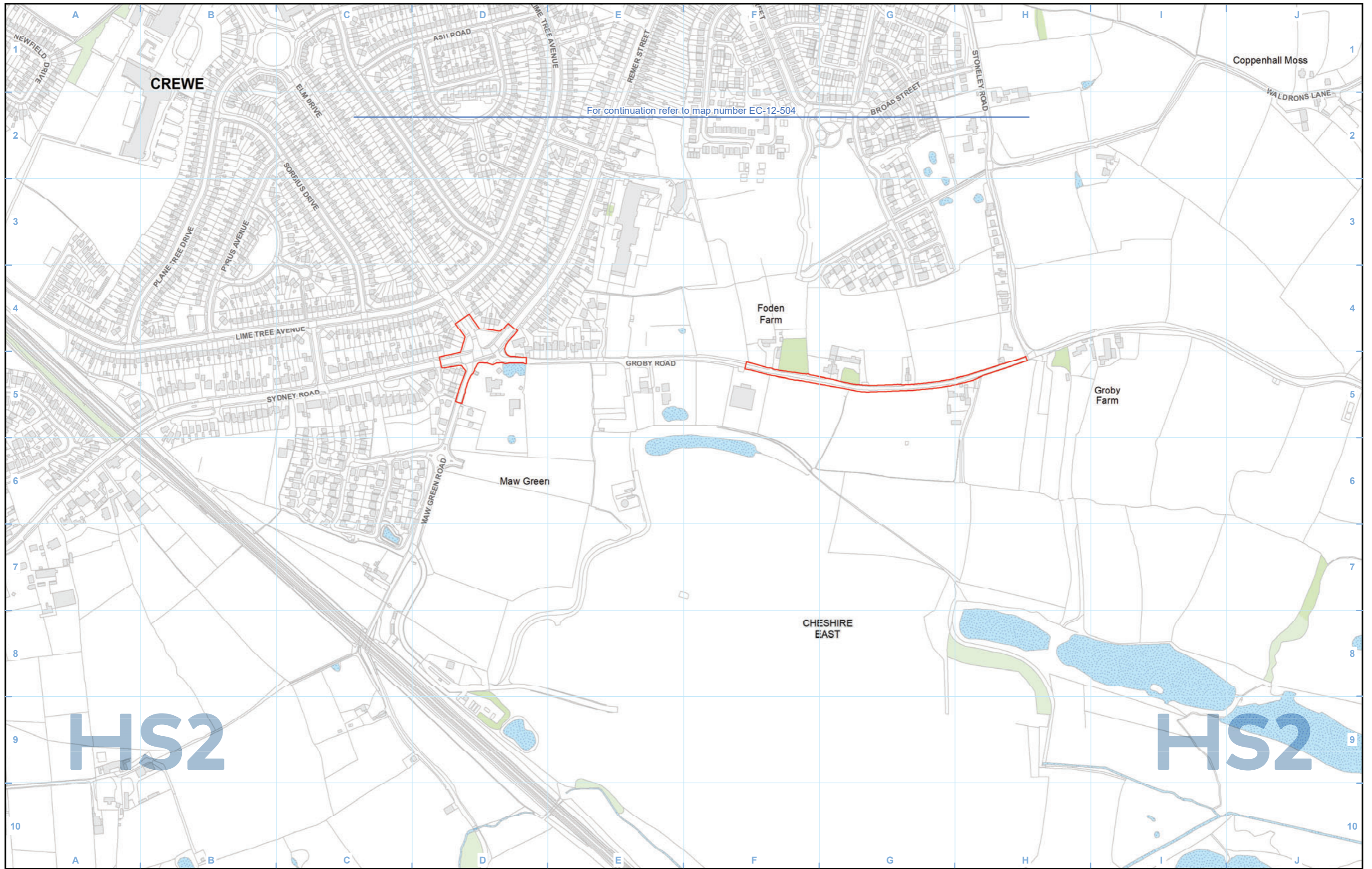
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0 50 100 150 200  
Metres

**Doc Number:** 2DE01-MWJ-EV-MAP-M000-003456-P01 **Date:** 10/08/21





Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-504-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA01: Hough to Walley's Green

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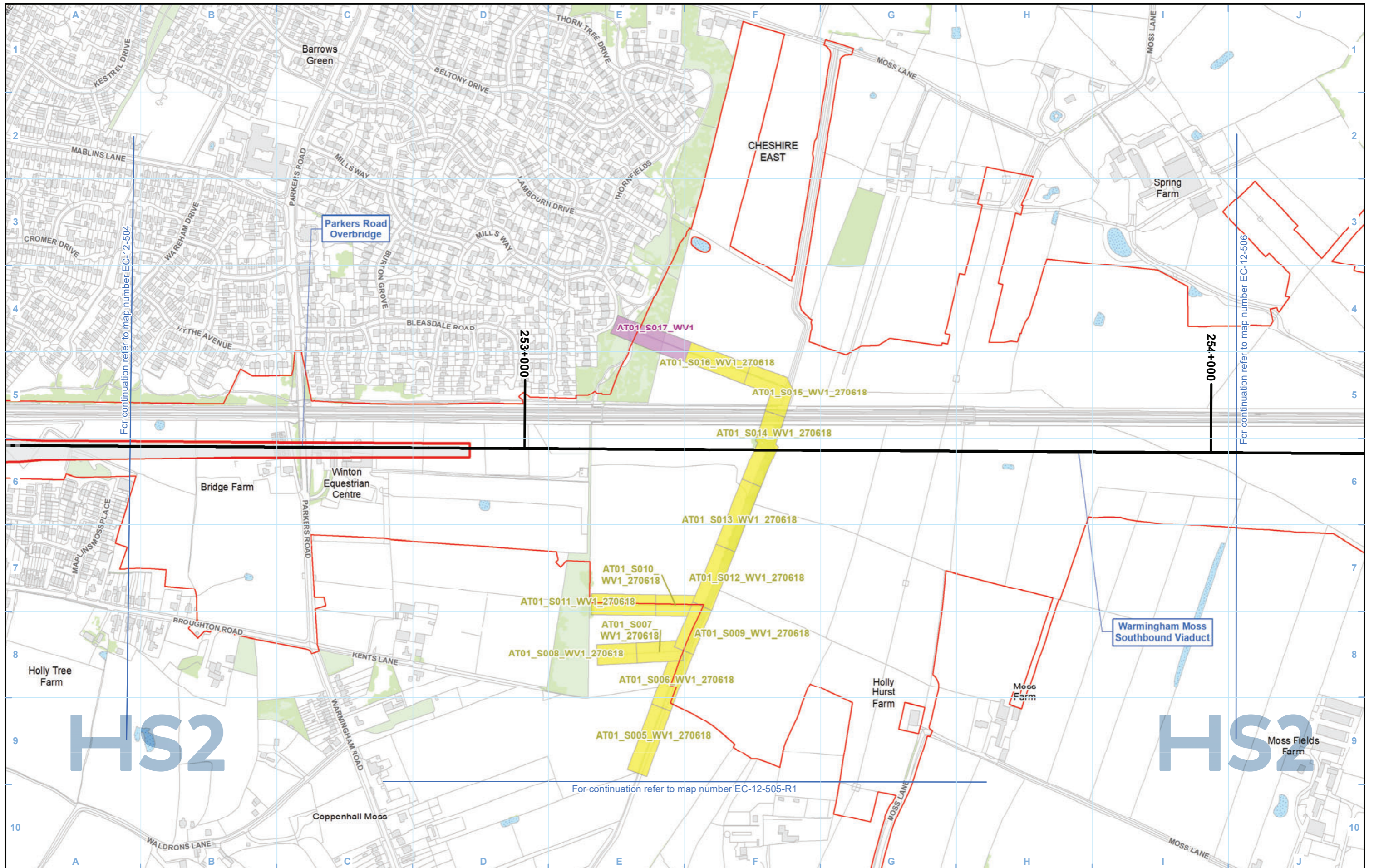
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Scale at A3: 1:5,000

Metres

**Date:** 10/08/21



For continuation refer to map number EC-12-504

For continuation refer to map number EC-12-506

For continuation refer to map number EC-12-505-R1

**Legend**

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul> | <ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Aquatic invertebrate survey location</li> </ul> | <p>Water vole:</p> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul> |
|--|--|---|

Map Number	EC-12-505
Map Name	Other Protected and Notable Species (2)
Community Area MA01: Hough to Walley's Green	

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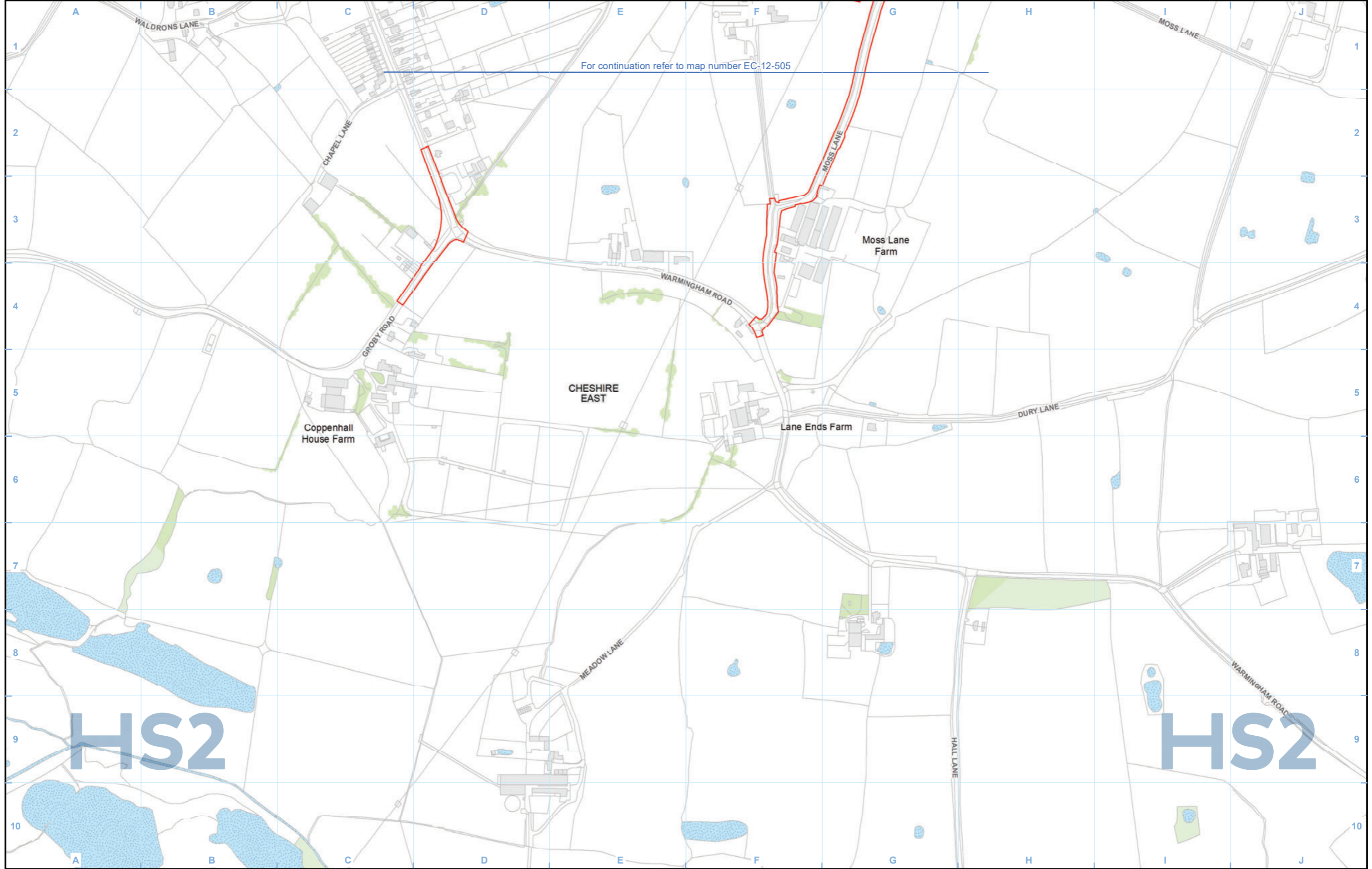
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Scale at A3: 1:5,000

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Date: 10/08/21

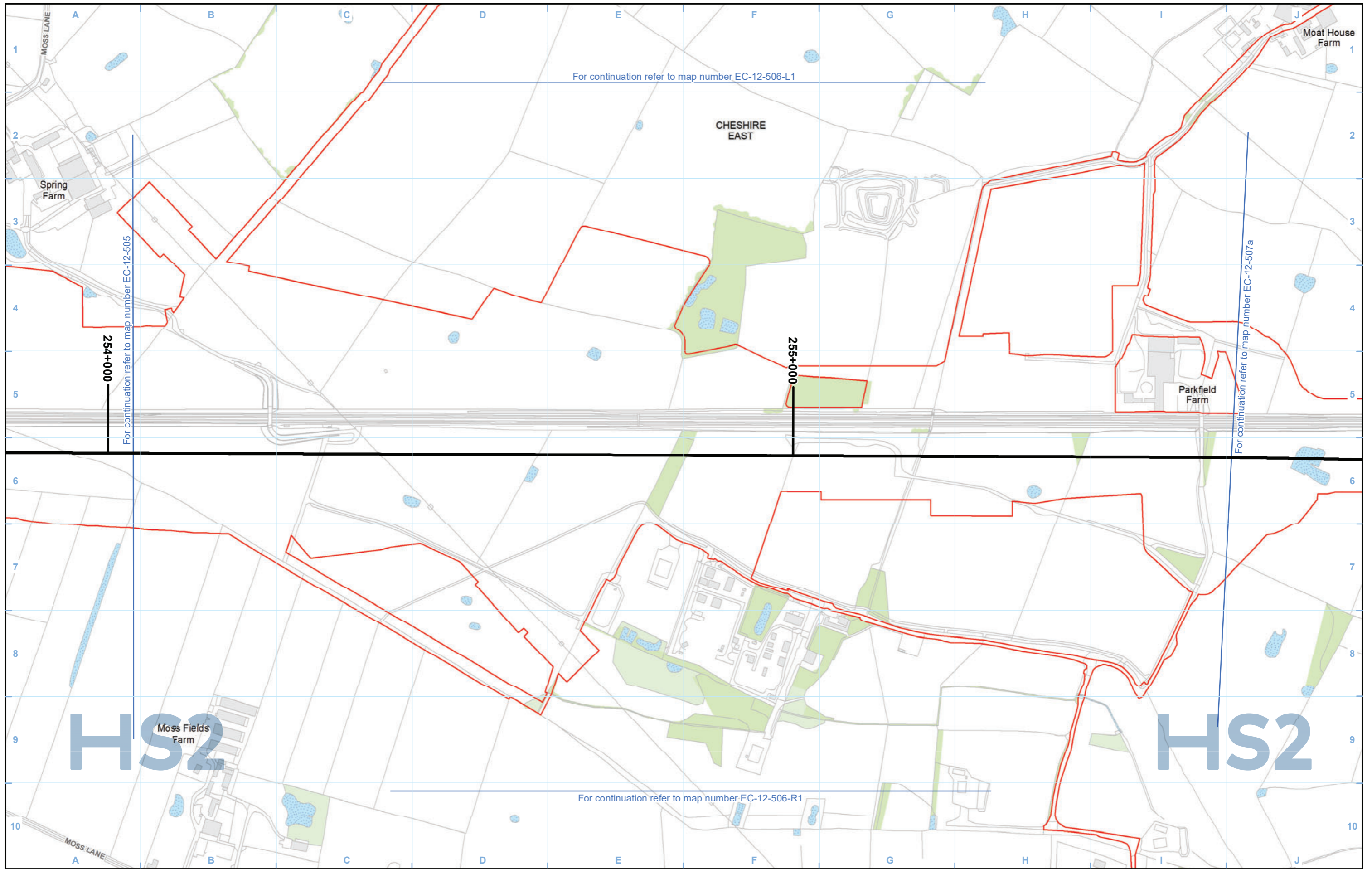
For continuation refer to map number EC-12-505



# HS2

# HS2

<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) <b>Aquatic invertebrate:</b> Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey	
<b>Map Number</b> EC-12-505-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA01:</b> Hough to Walley's Green		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003458-P01</small>	
				<b>Date: 10/08/21</b>	



**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number	EC-12-506
Map Name	Other Protected and Notable Species (2)
Community Area MA01: Hough to Walley's Green	

**HS2**

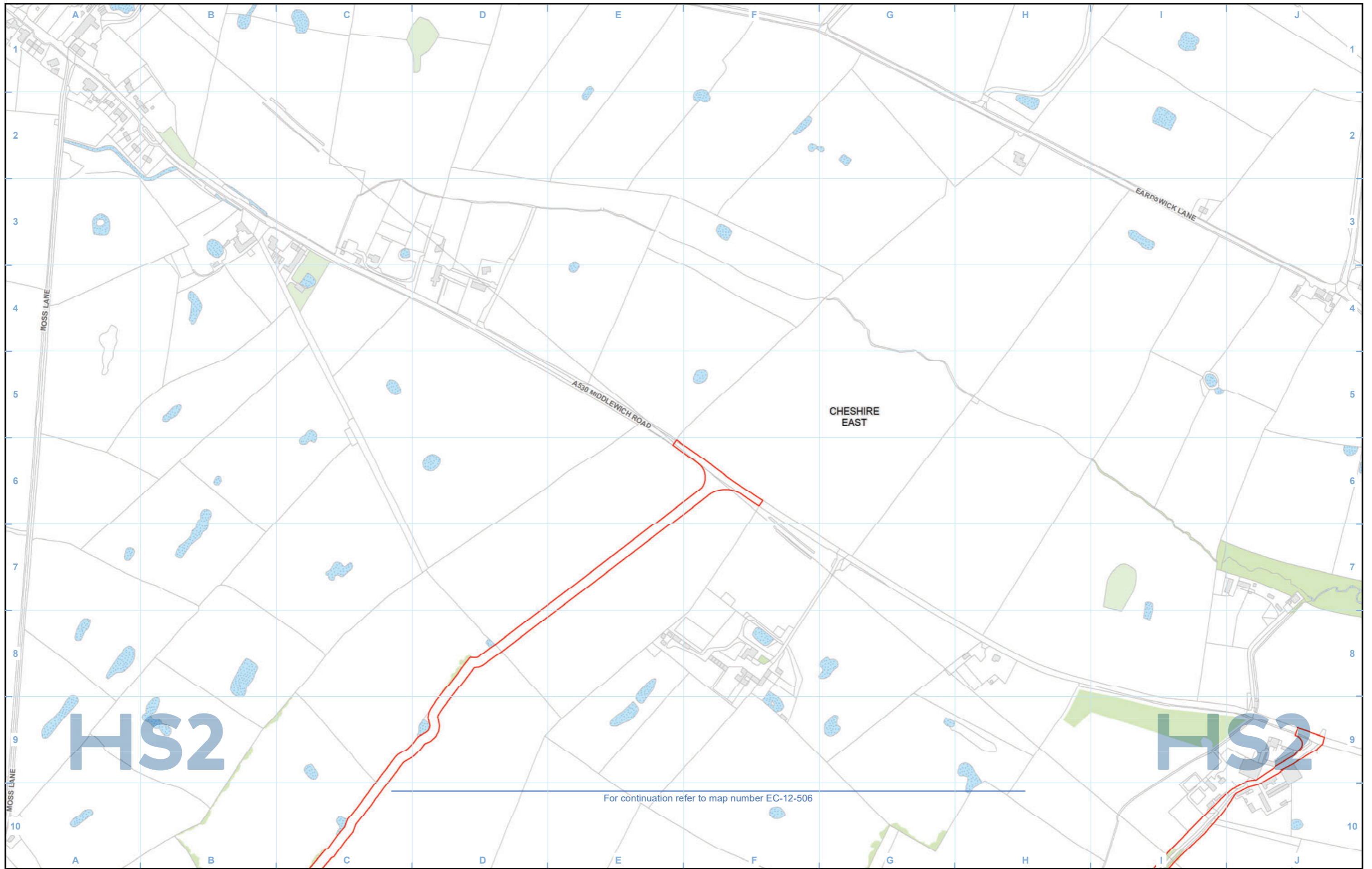
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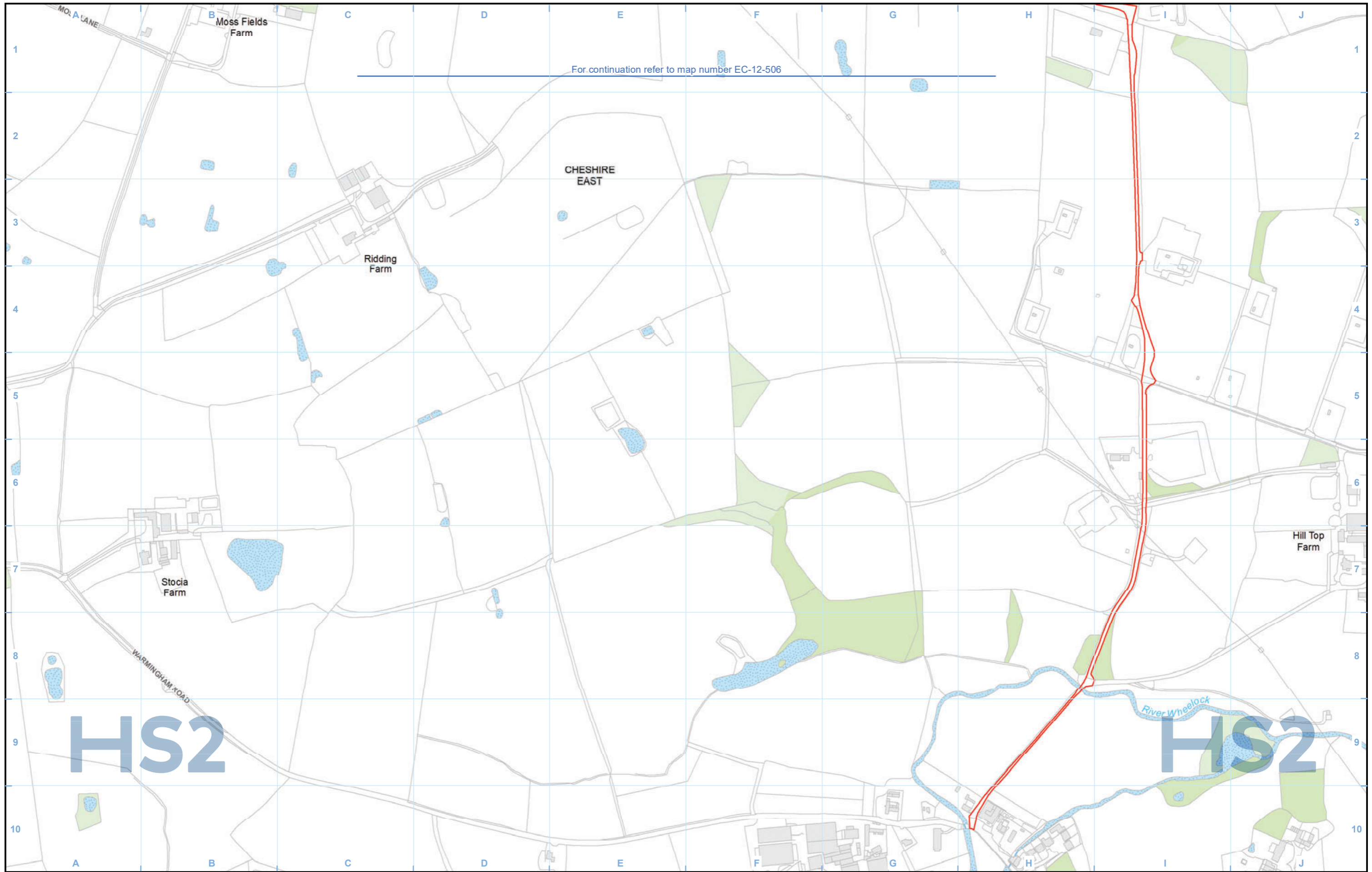
Scale at A3: 1:5,000

Date: 10/08/21



For continuation refer to map number EC-12-506

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-506-L1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA01:</b> Hough to Walley's Green		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003459-P01</small>	
				<b>Date: 10/08/21</b>	



For continuation refer to map number EC-12-506

**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number	EC-12-506-R1
Map Name	Other Protected and Notable Species (2)
Community Area MA01: Hough to Walley's Green	

**HS2**

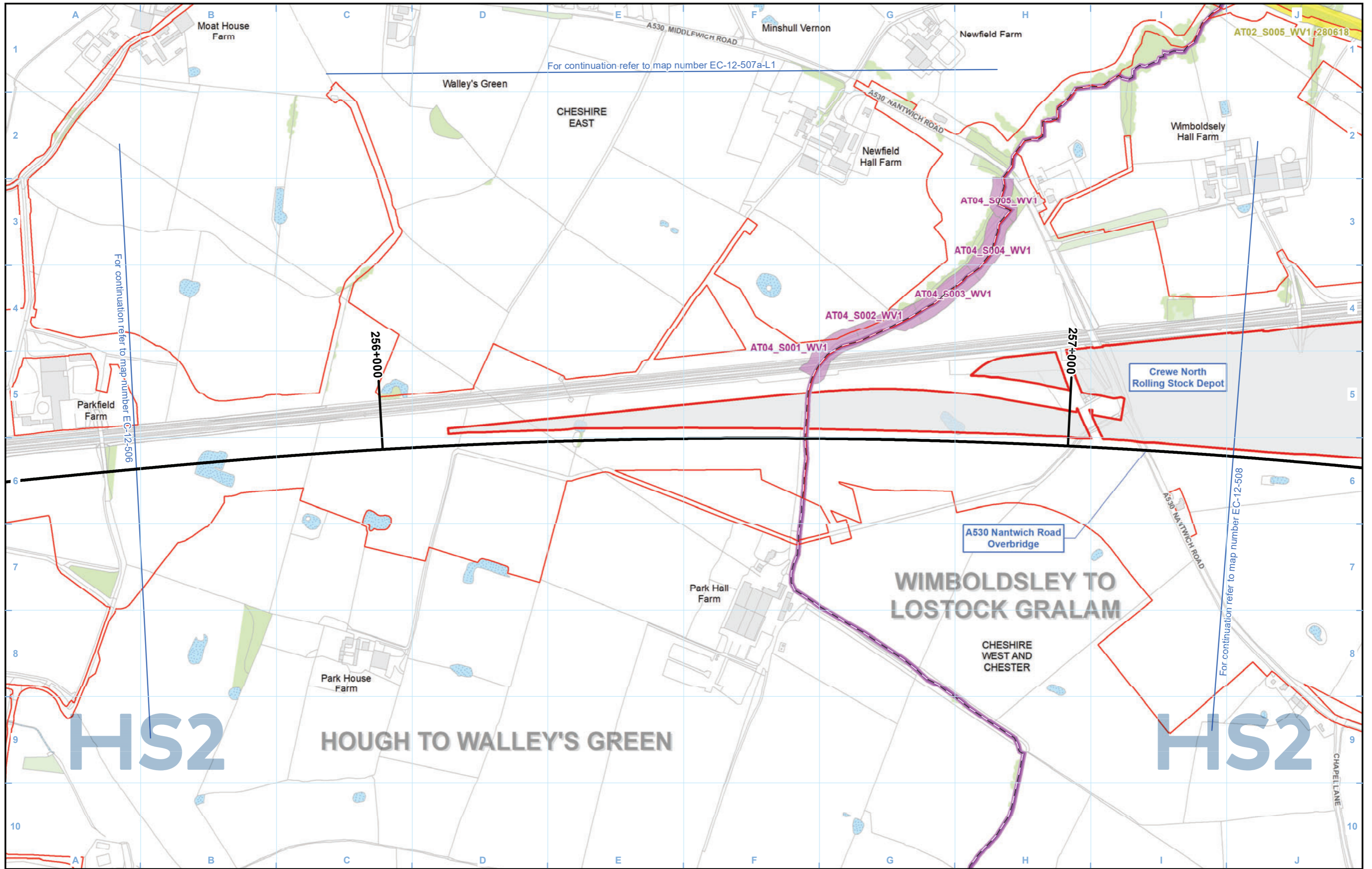
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003460-P01

Date: 10/08/21



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:
- Aquatic invertebrate survey location

**Water vole:**

- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

Map Number: EC-12-507a

Map Name: Other Protected and Notable Species (2)

Community Area MA01: Hough to Walley's Green

**HS2**

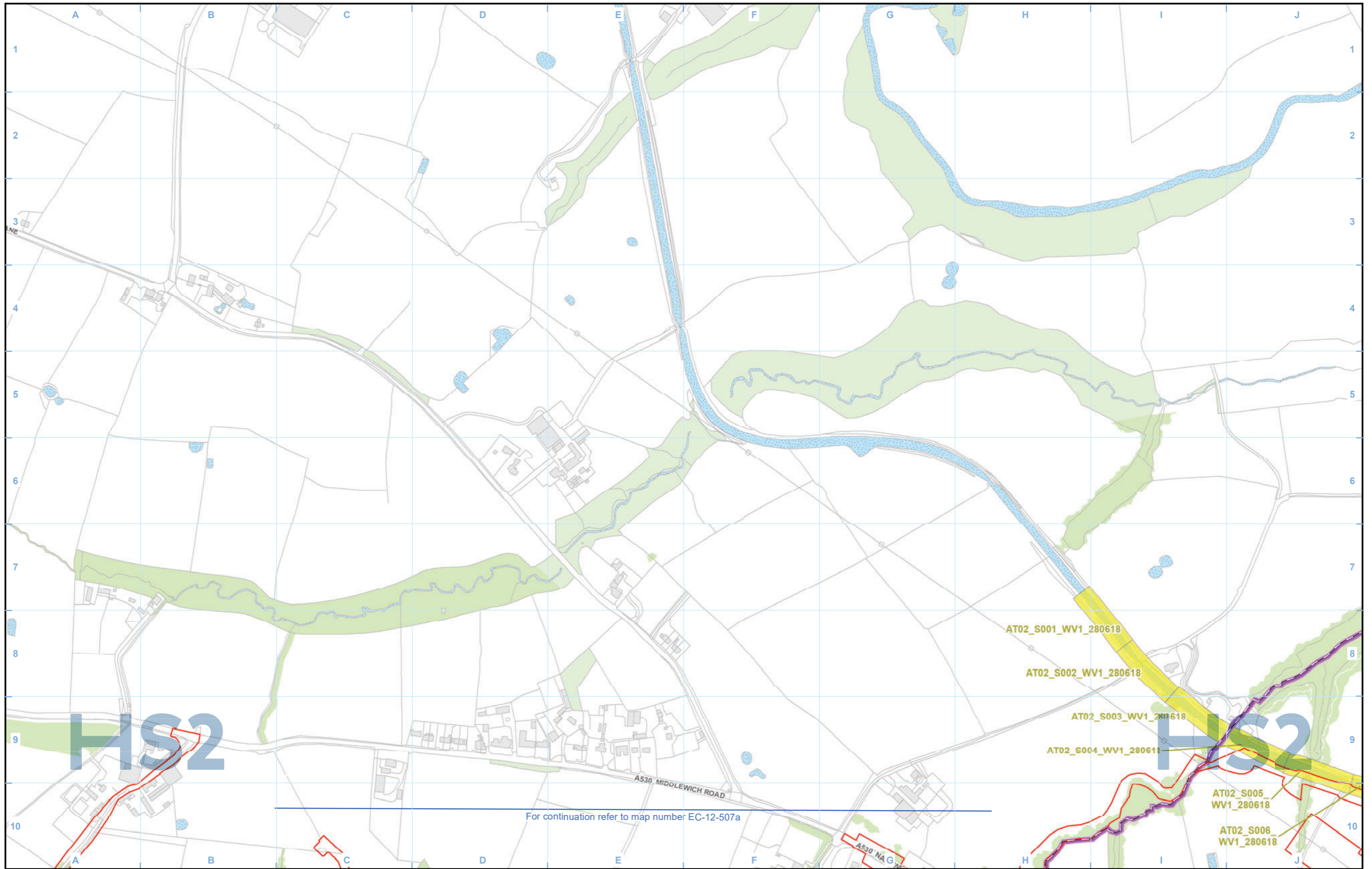
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Scale at A3: 1:5,000

Date: 10/08/21



**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number EC-12-507a-L1

Map Name Other Protected and Notable Species (2)

Community Area MA01:  
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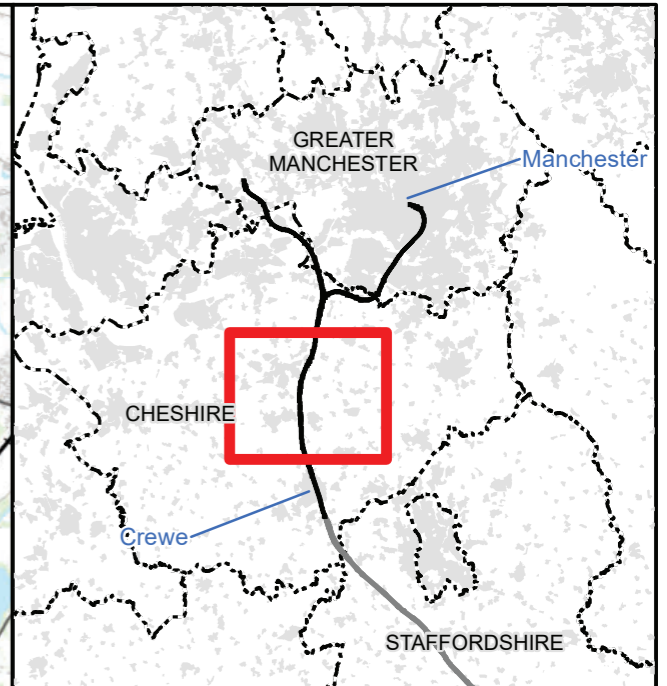
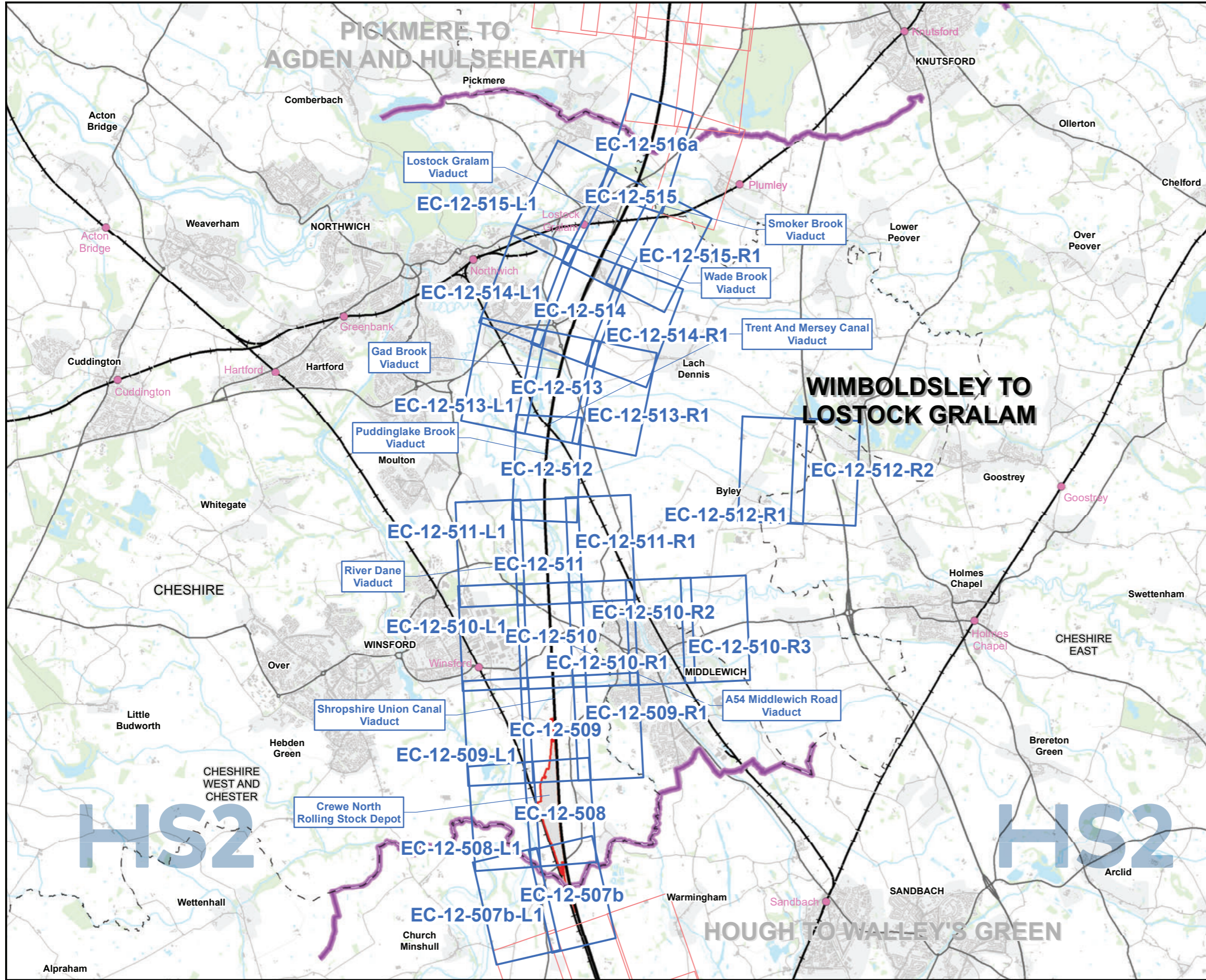
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003963-P01

Date: 10/08/21

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**Map Series Information:**  
 This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

Main Map Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	Existing railway station
	County boundary
	District/Borough boundary
	Map sheets included in this community area
	Map sheets not included in this community area

Map Number	EC-12-INDEX-MA02
Map Name	Index Map of: Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

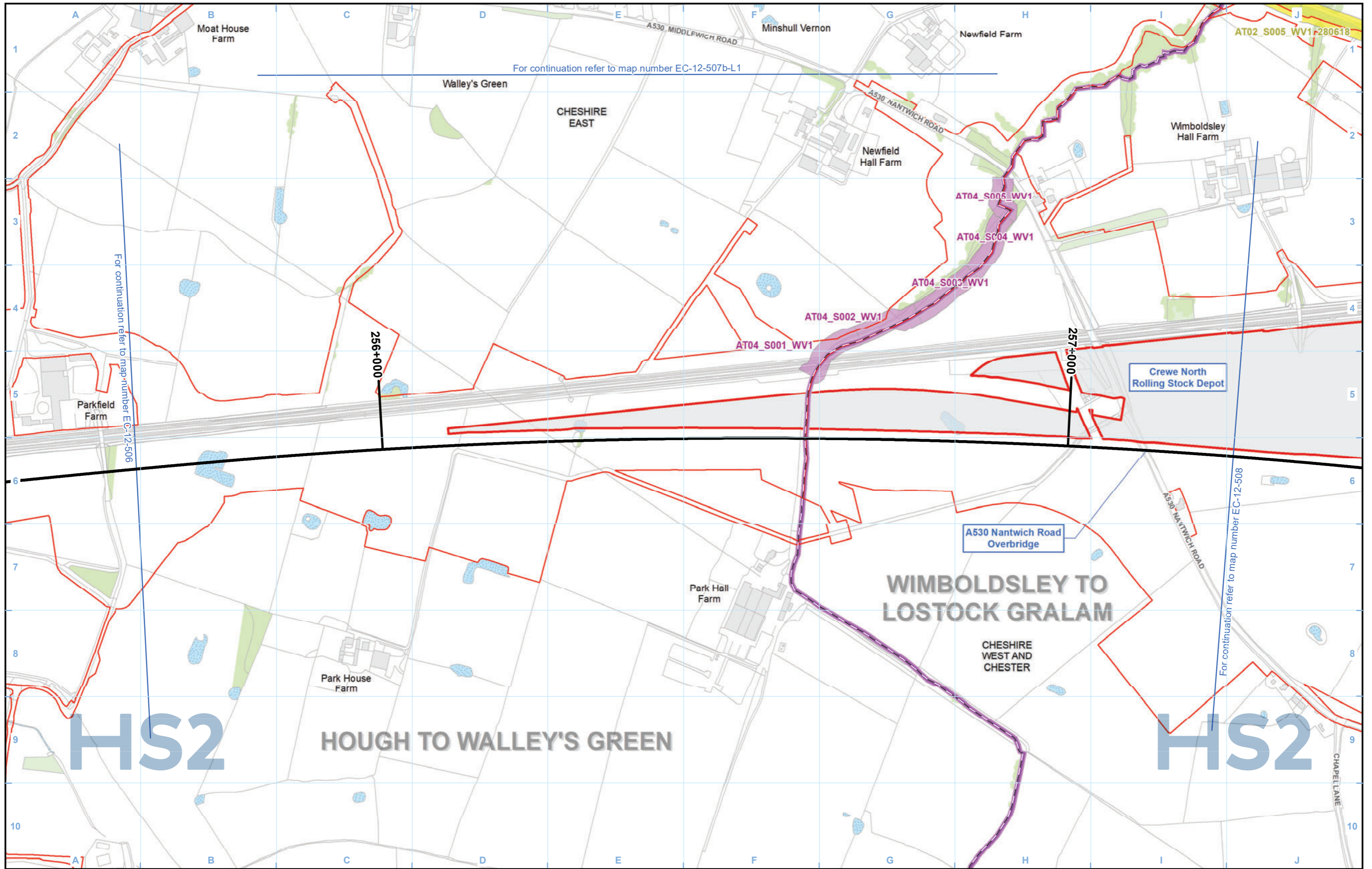
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For continuation refer to map number EC-12-507b-L1

For continuation refer to map number EC-12-506

For continuation refer to map number EC-12-508

Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-507b
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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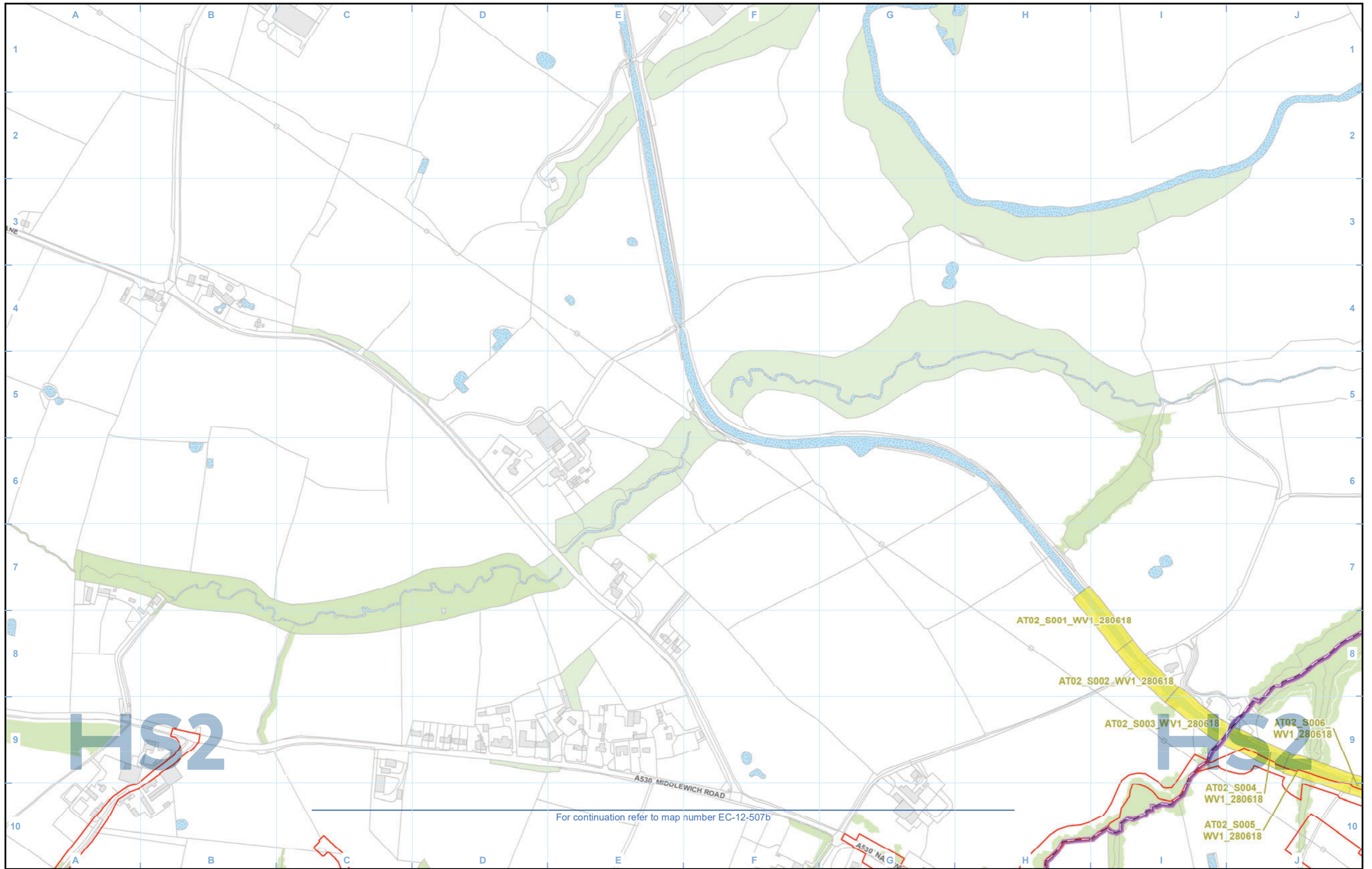
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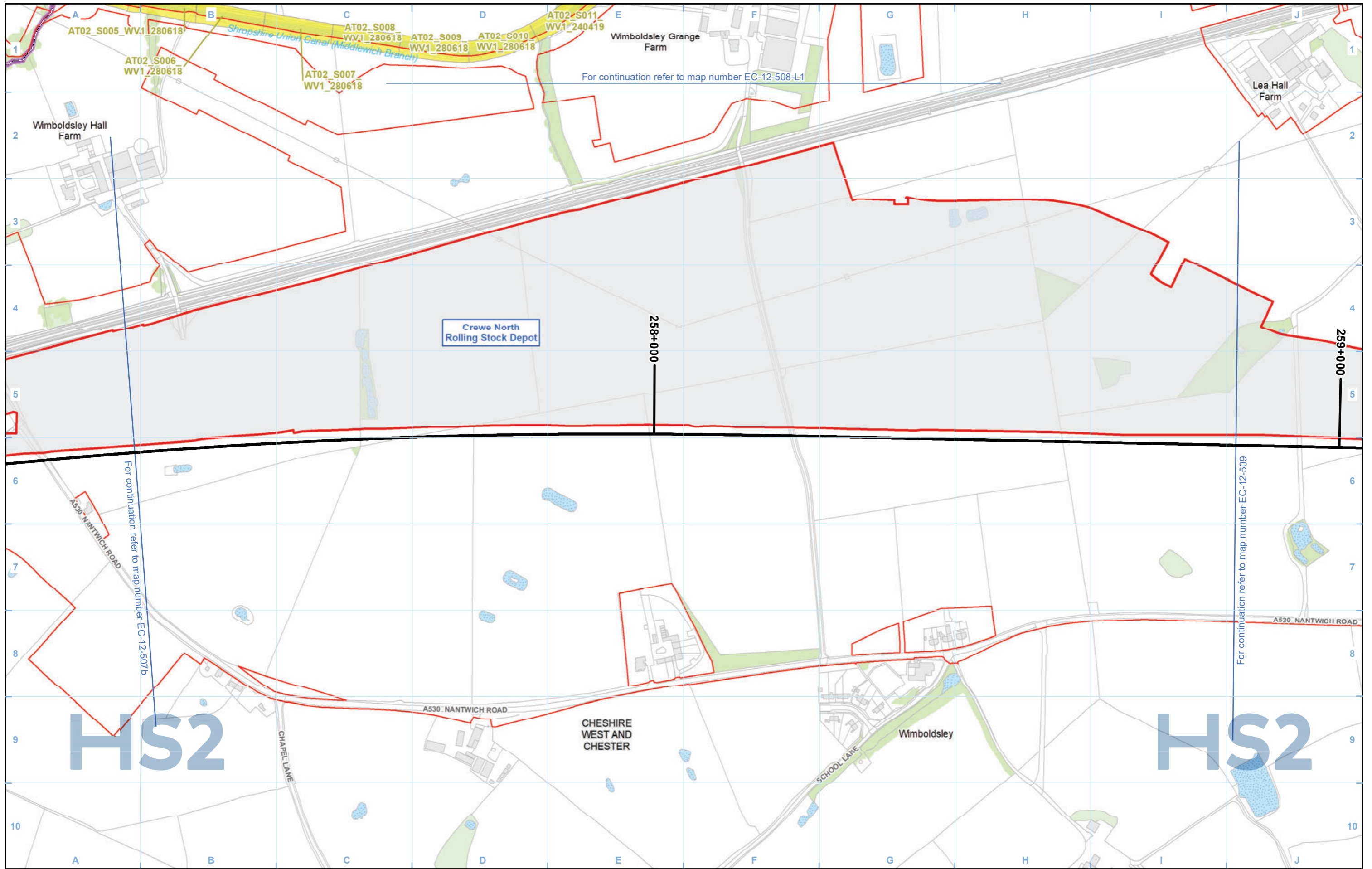
Scale at A3: 1:5,000

Date: 10/08/21



For continuation refer to map number EC-12-507b

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-507b-L1		<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Metres</p>		<b>Map Name</b> <b>Other Protected and Notable Species (2)</b>	
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam				<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003964-P01	



**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number: EC-12-508

Map Name: Other Protected and Notable Species (2)

Community Area MA02: Wimboldsley to Lostock Gralam

**HS2**

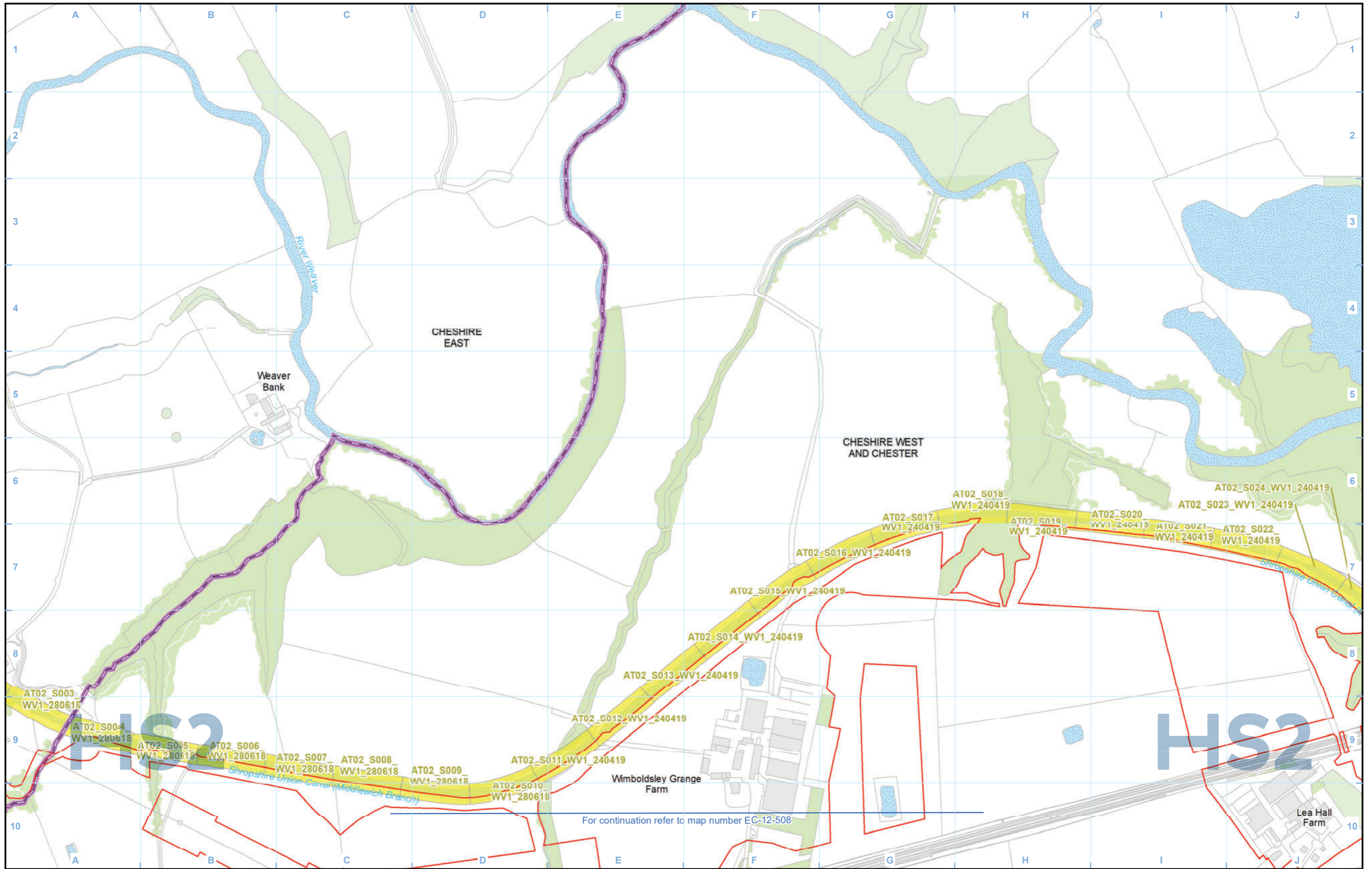
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Date: 10/08/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-508-L1
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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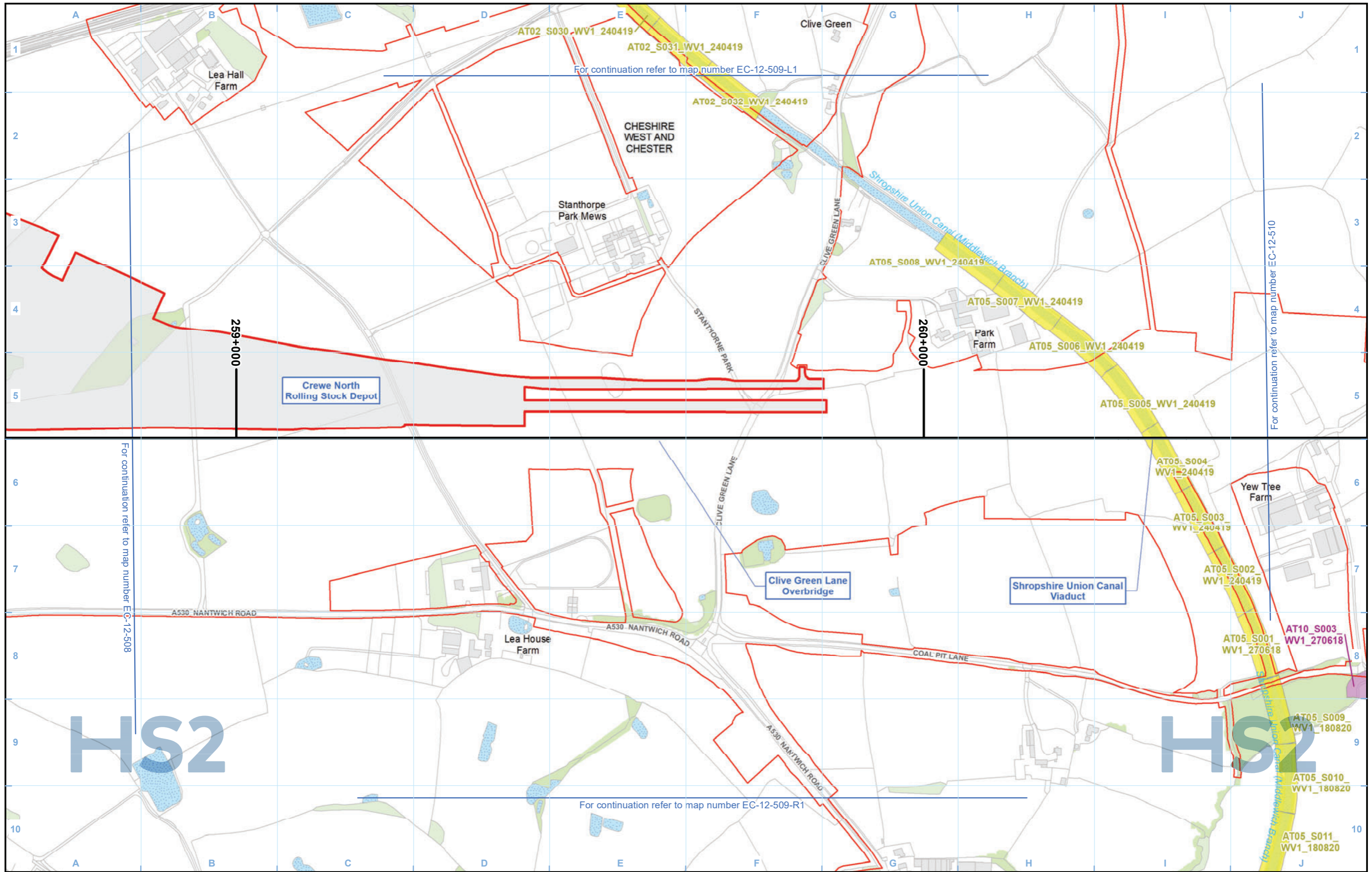
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Scale at A3: 1:5,000

Metres

Date: 10/08/21

For continuation refer to map number EC-12-508



**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number: EC-12-509

Map Name: Other Protected and Notable Species (2)

Community Area MA02: Wimboldsley to Lostock Gralam

**HS2**

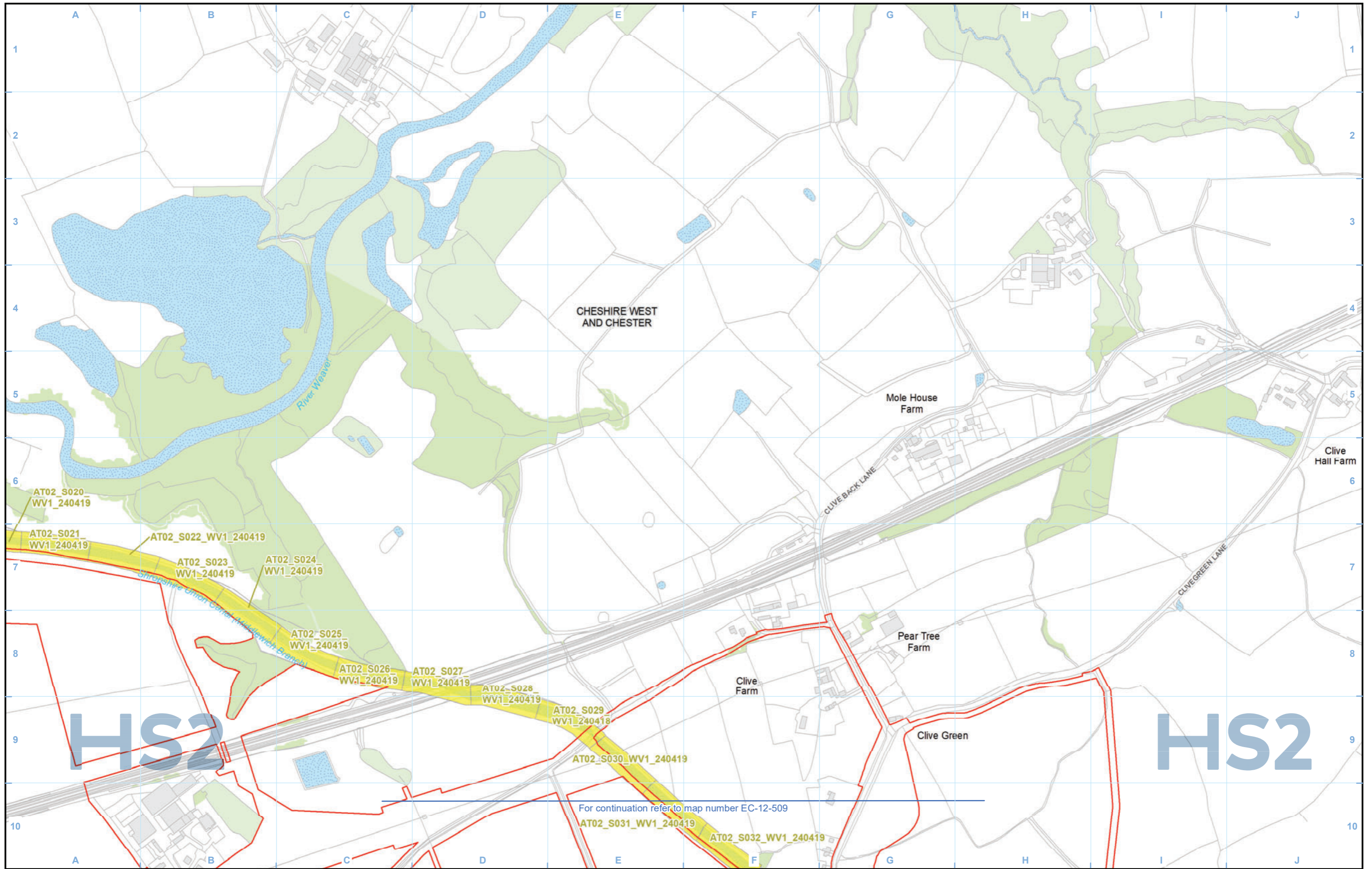
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001521-P01

Date: 10/08/21



**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number: EC-12-509-L1

Map Name: Other Protected and Notable Species (2)

Community Area MA02: Wimboldsley to Lostock Gralam

**HS2**

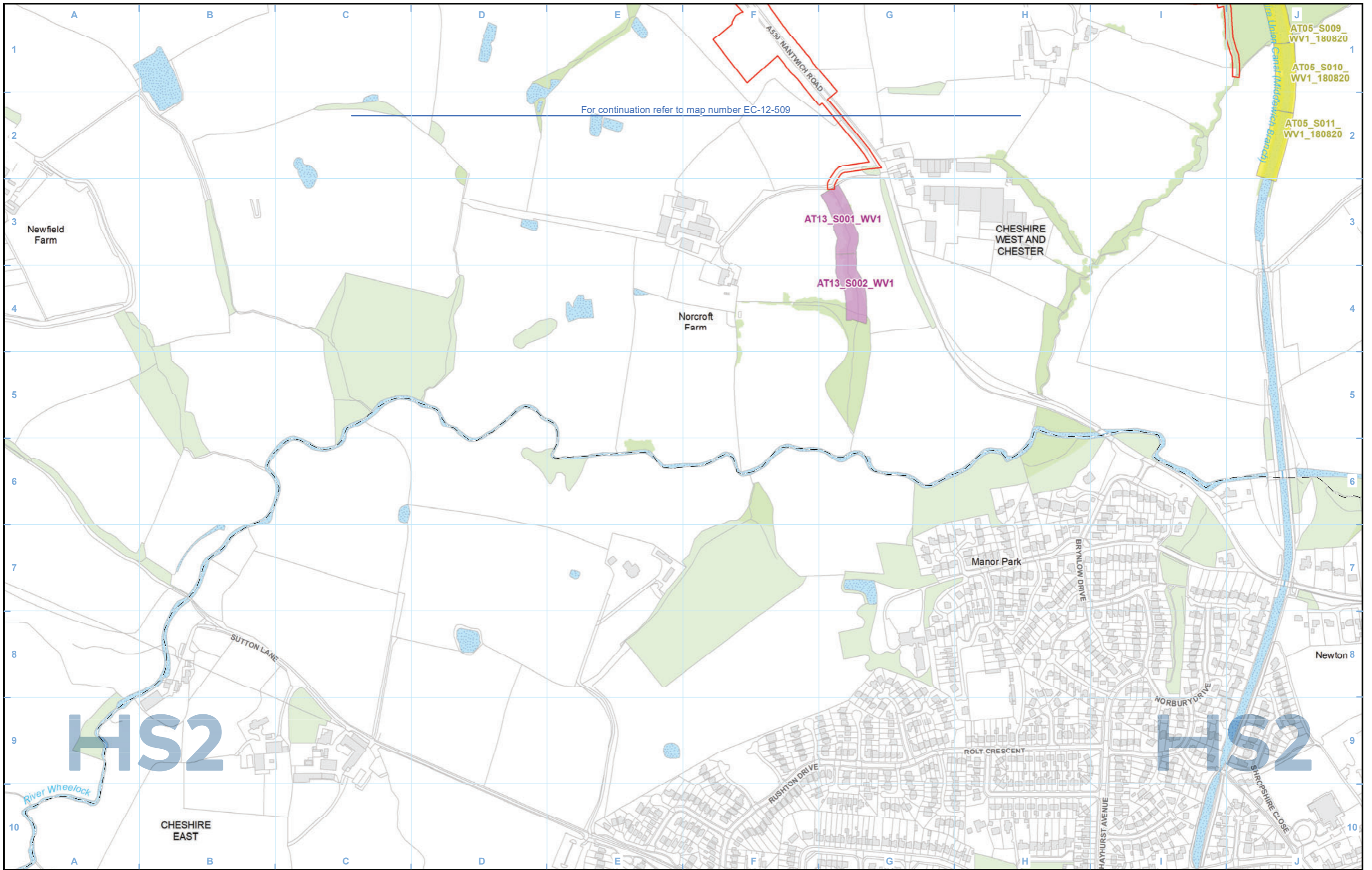
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Date: 10/08/21

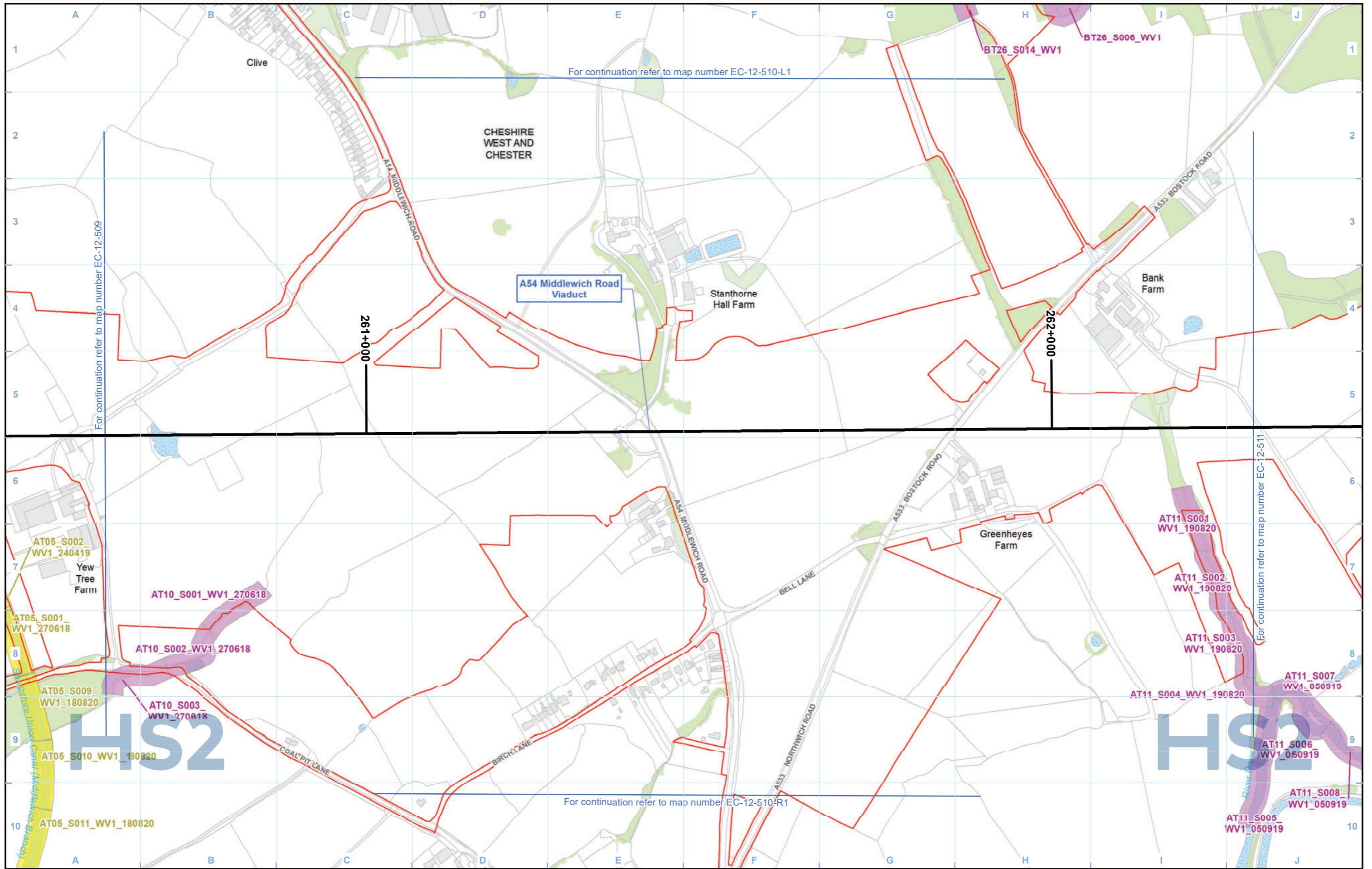


For continuation refer to map number EC-12-509

AT05\_S009\_WV1\_180820  
 AT05\_S010\_WV1\_180820  
 AT05\_S011\_WV1\_180820

<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) <b>Aquatic invertebrate:</b> Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey	
<b>Map Number</b> EC-12-509-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small> 	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686.          Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3:</b> 1:5,000 	
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam		<small>© Crown copyright and database rights 2020          OS 100049190</small>		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003463-P01 <b>Date:</b> 10/08/21	





Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-510
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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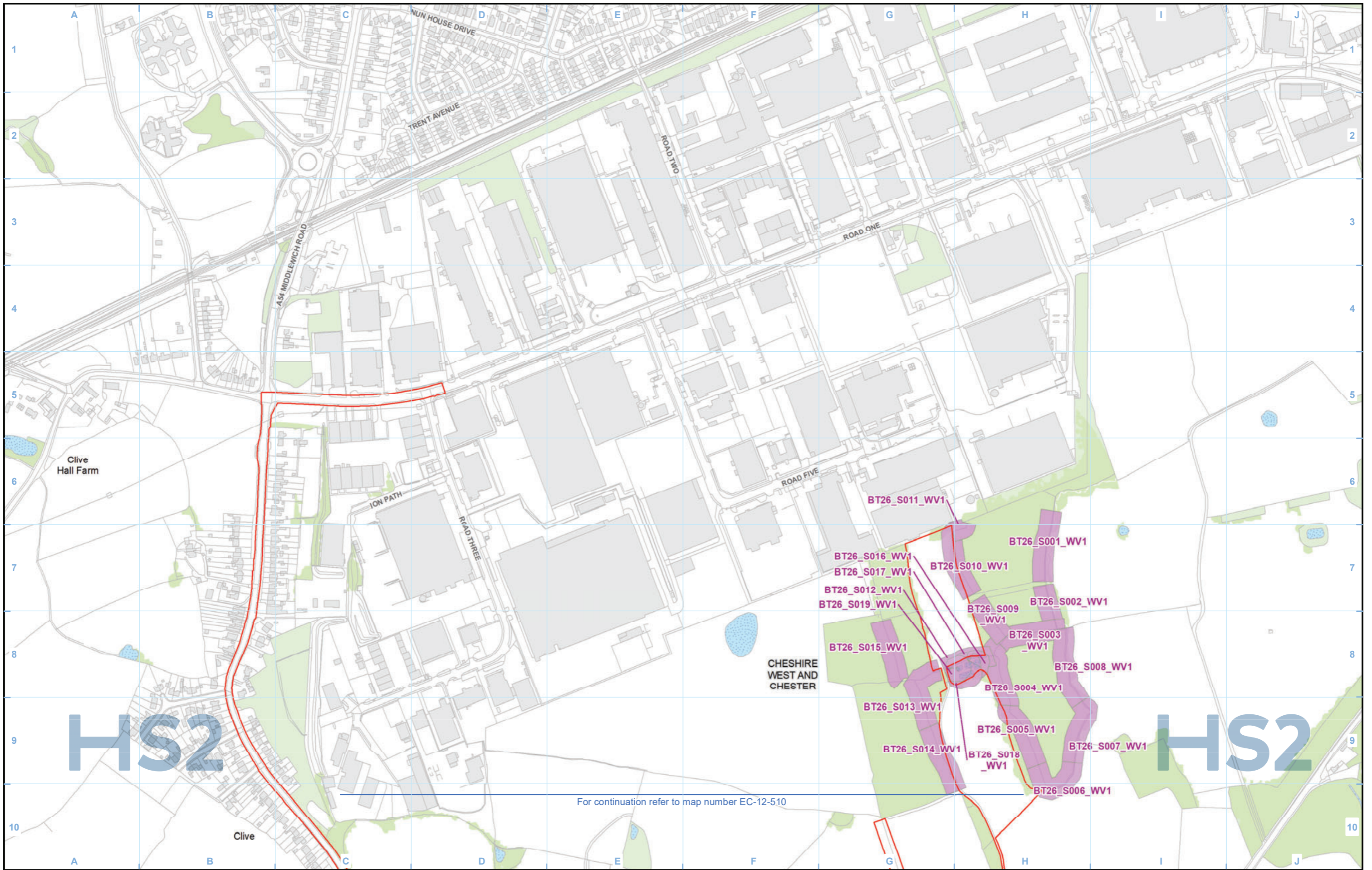
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Scale at A3: 1:5,000

Metres

Date: 10/08/21



For continuation refer to map number EC-12-510

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number EC-12-510-L1

Map Name Other Protected and Notable Species (2)

Community Area MA02: Wimboldsley to Lostock Gralam

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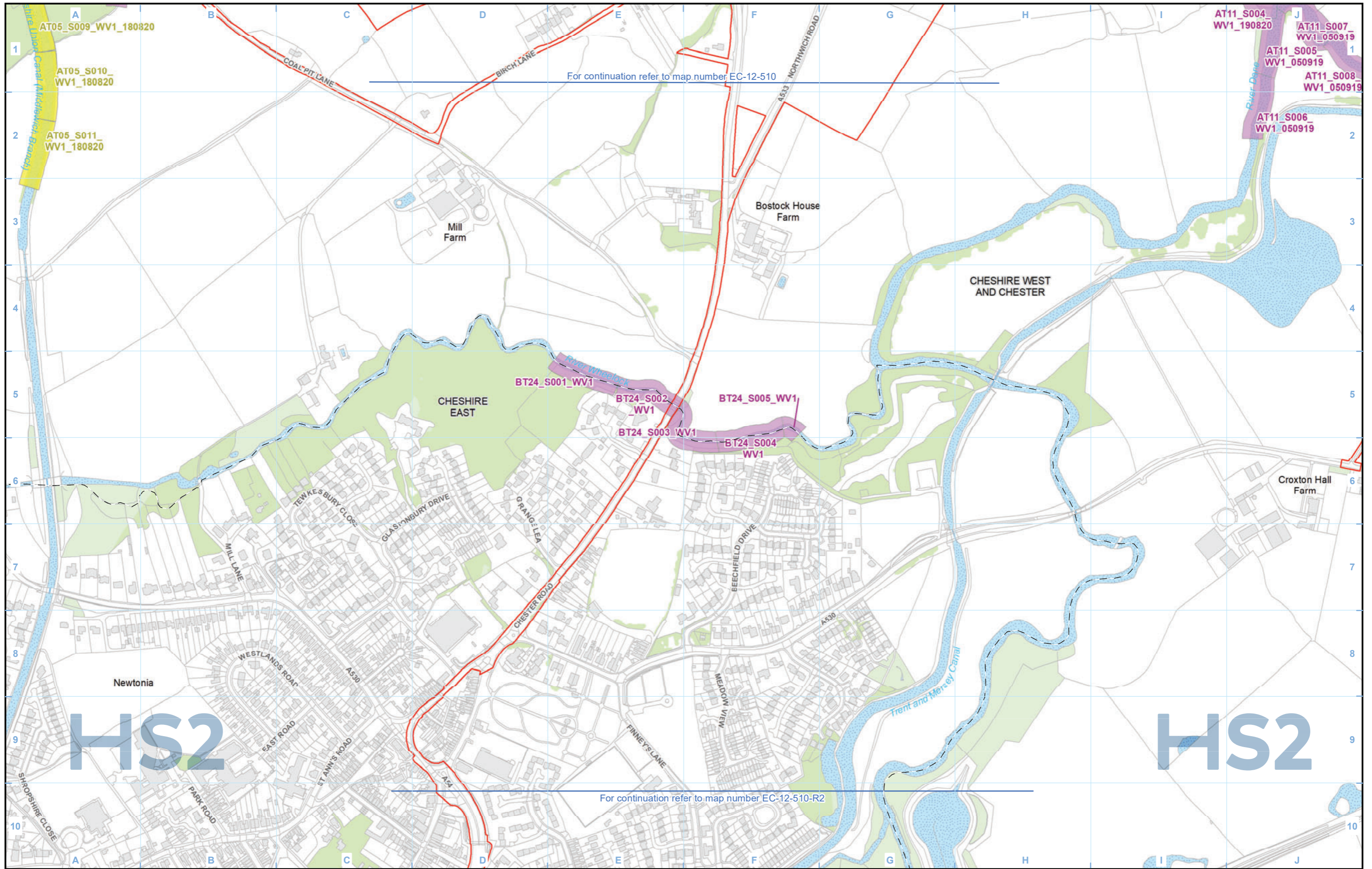
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Date: 10/08/21

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0 50 100 150 200 Metres



For continuation refer to map number EC-12-510

For continuation refer to map number EC-12-510-R2

**Legend**

	<b>Aquatic invertebrate:</b>	

	Watercourse
	Water body
	Woodland (verified by survey)
	Aquatic invertebrate survey location

**Water vole:**

	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-510-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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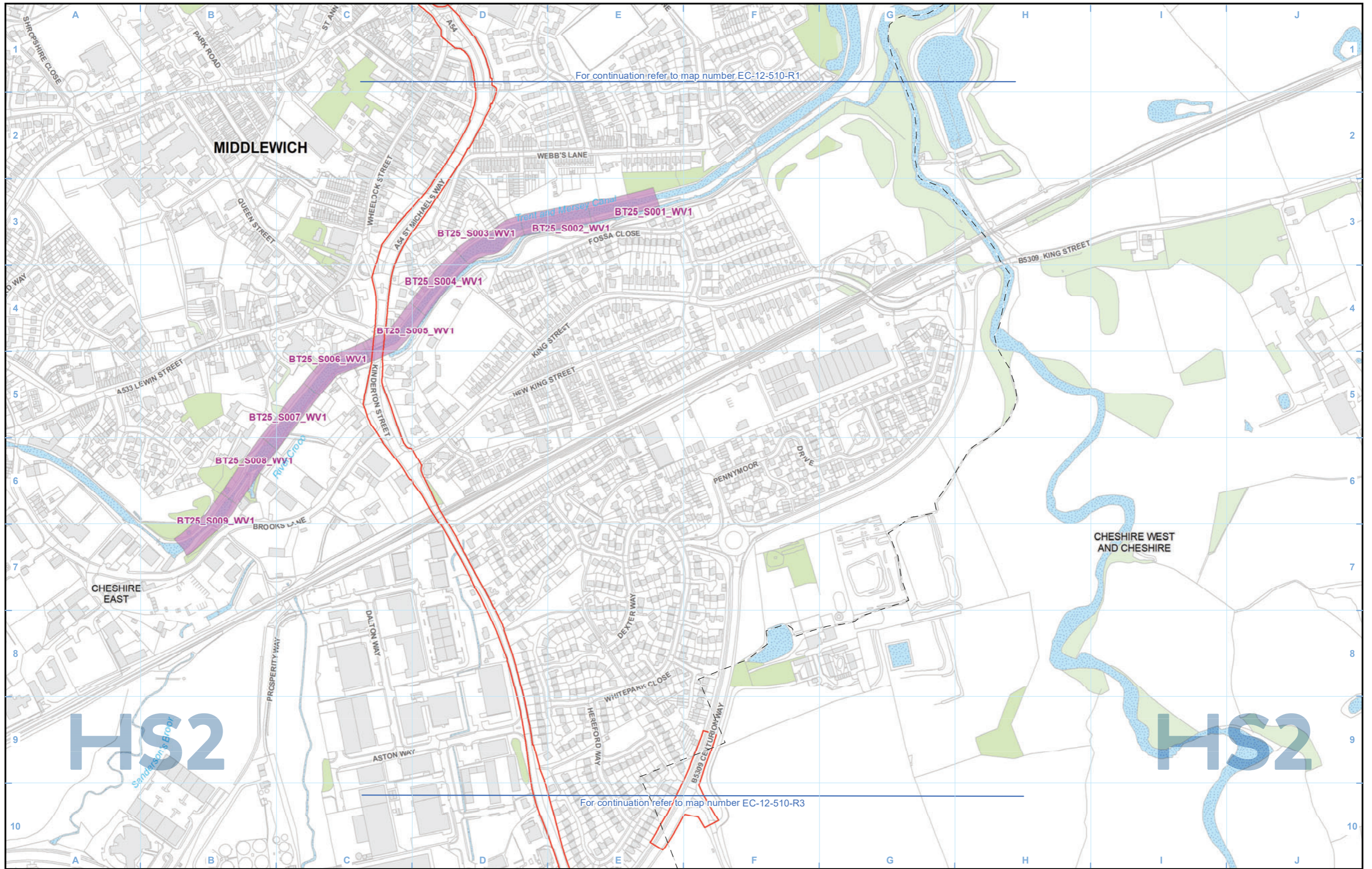
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**HS2**

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For continuation refer to map number EC-12-510-R1

For continuation refer to map number EC-12-510-R3

**Legend**

	<b>Aquatic invertebrate:</b>	

	Water vole:
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

	Water vole:
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-510-R2
Map Name	Other Protected and Notable Species (2)
Community Area MA02: Wimboldsley to Lostock Gralam	

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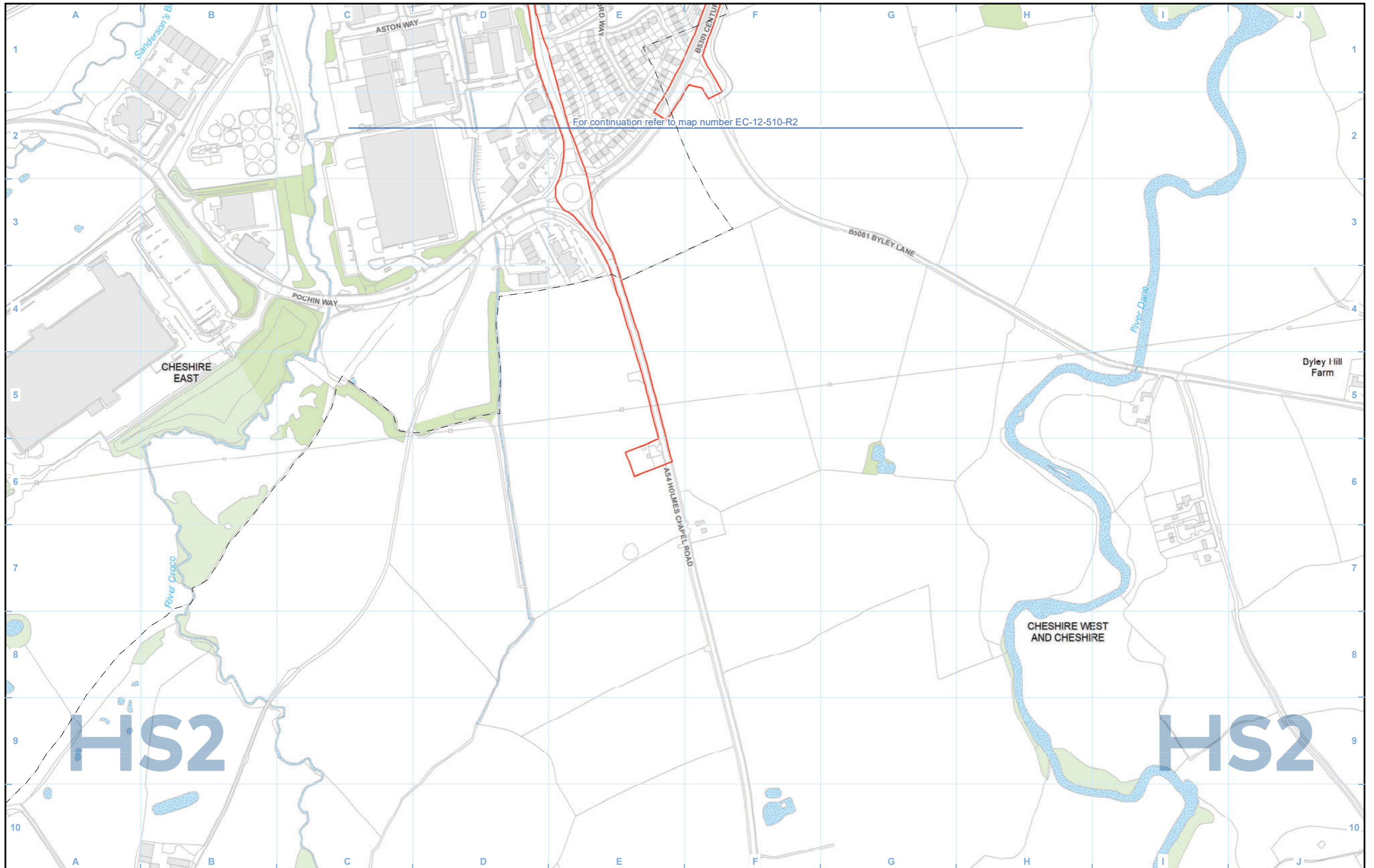
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For continuation refer to map number EC-12-510-R2

**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number **EC-12-510-R3**

Map Name **Other Protected and Notable Species (2)**

Community Area MA02:  
Wimboldsley to Lostock Gralam

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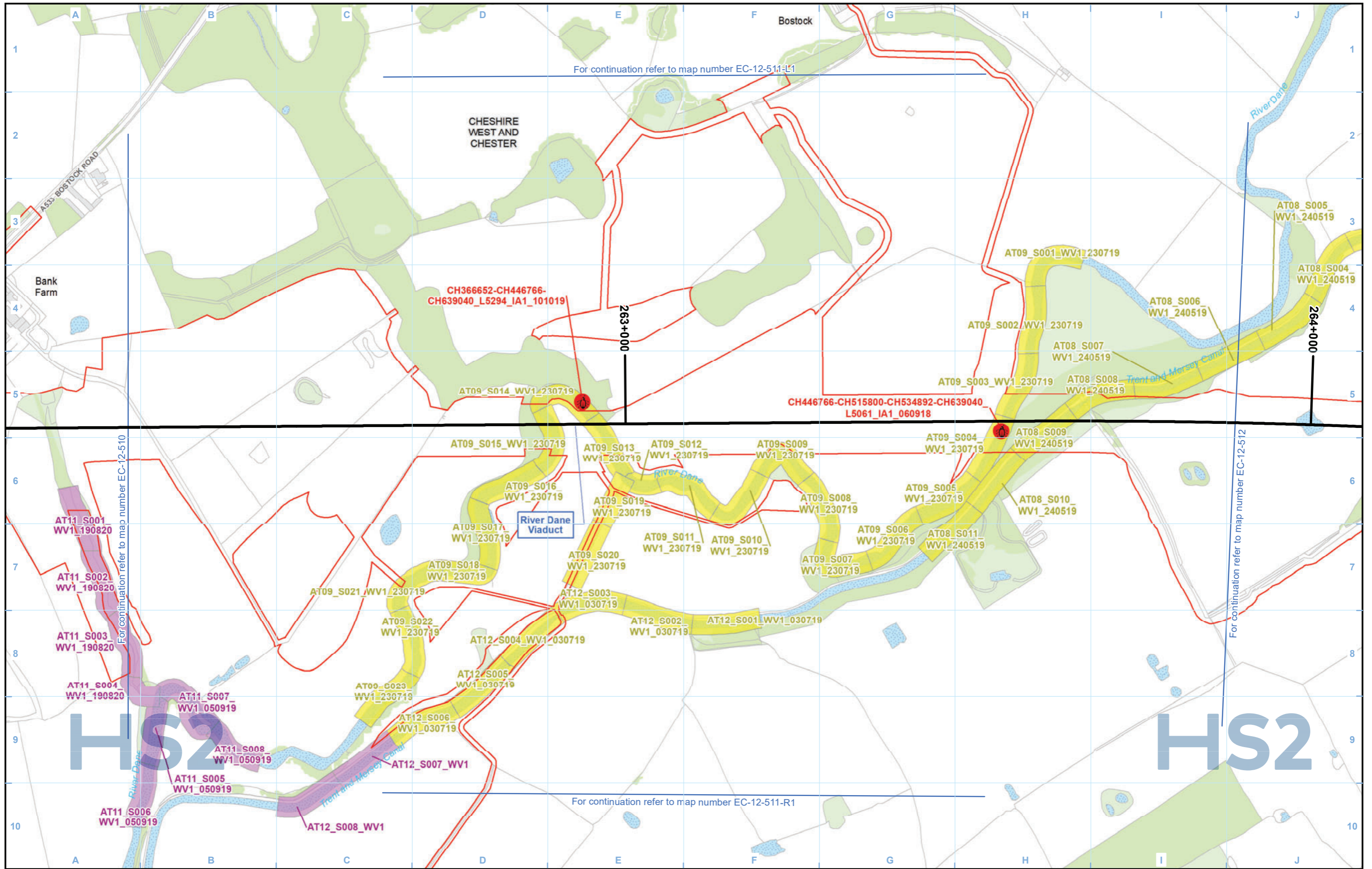
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003467-P01

Date: 10/08/21



**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number	EC-12-511
Map Name	Other Protected and Notable Species (2)
Community Area MA02: Wimboldsley to Lostock Gralam	

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Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-511-L1
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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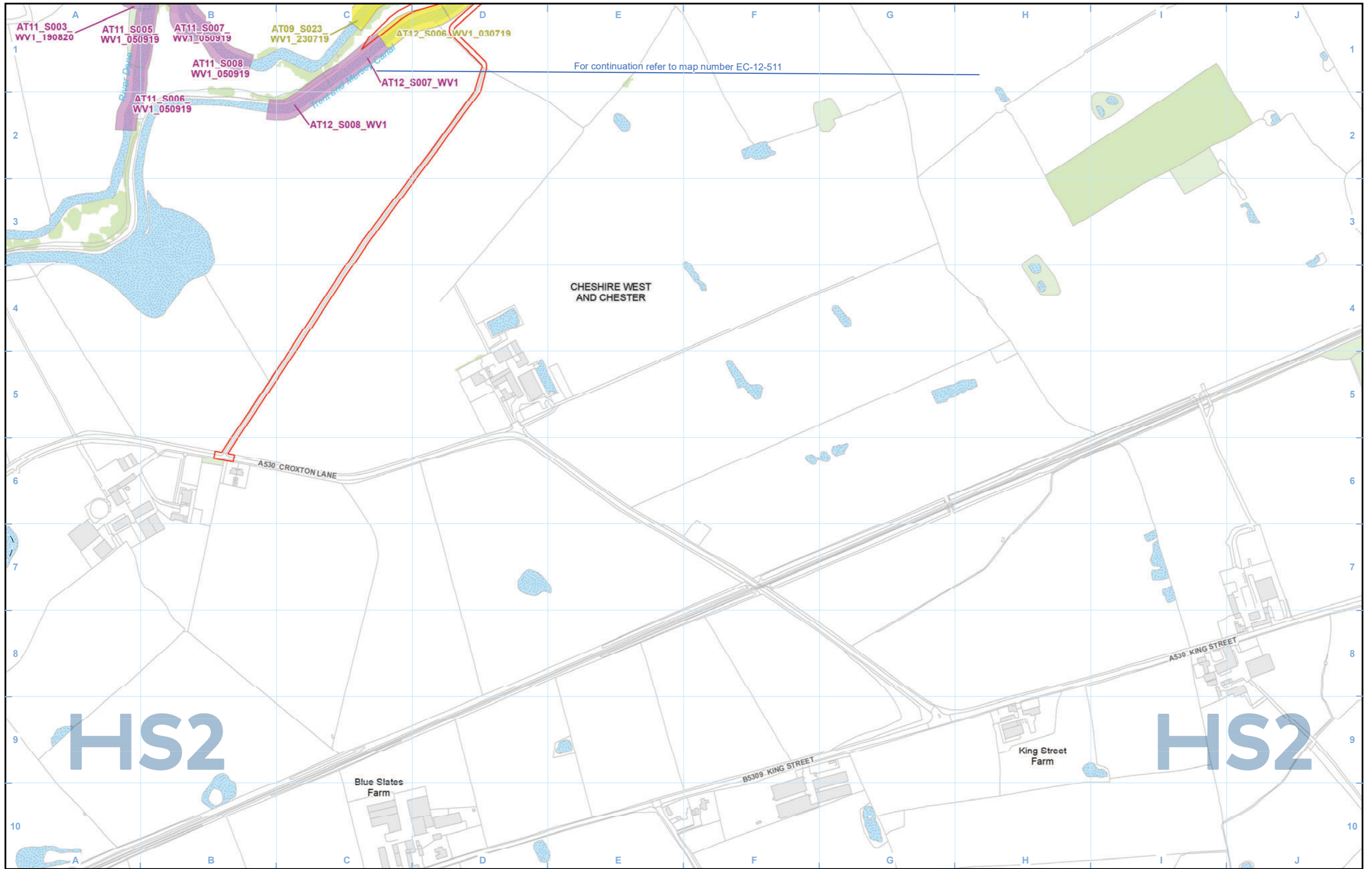
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Date: 10/08/21

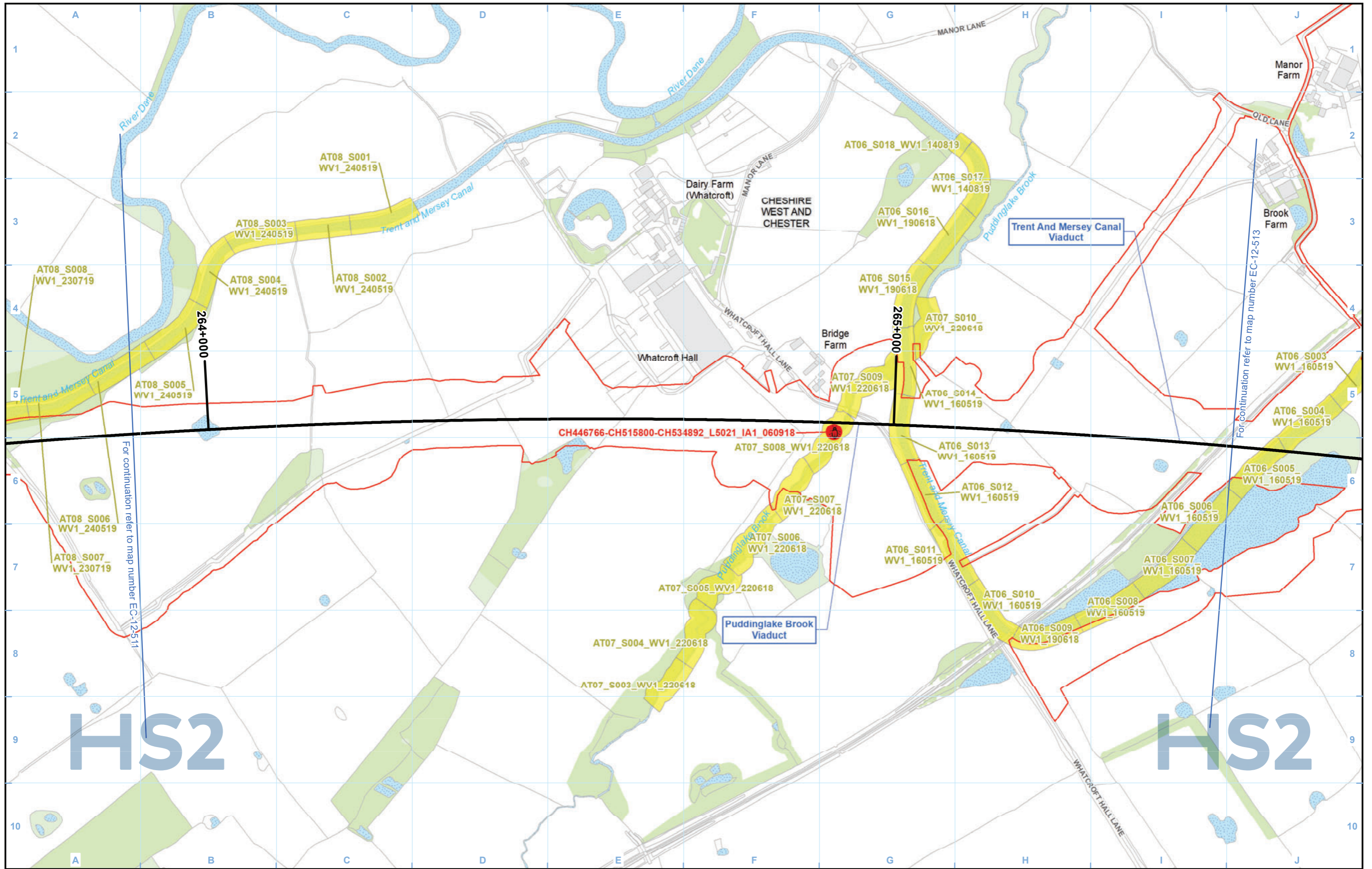
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<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
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<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003469-P01</small>	
				<b>Date: 10/08/21</b>	





Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-512
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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Date: 10/08/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-512-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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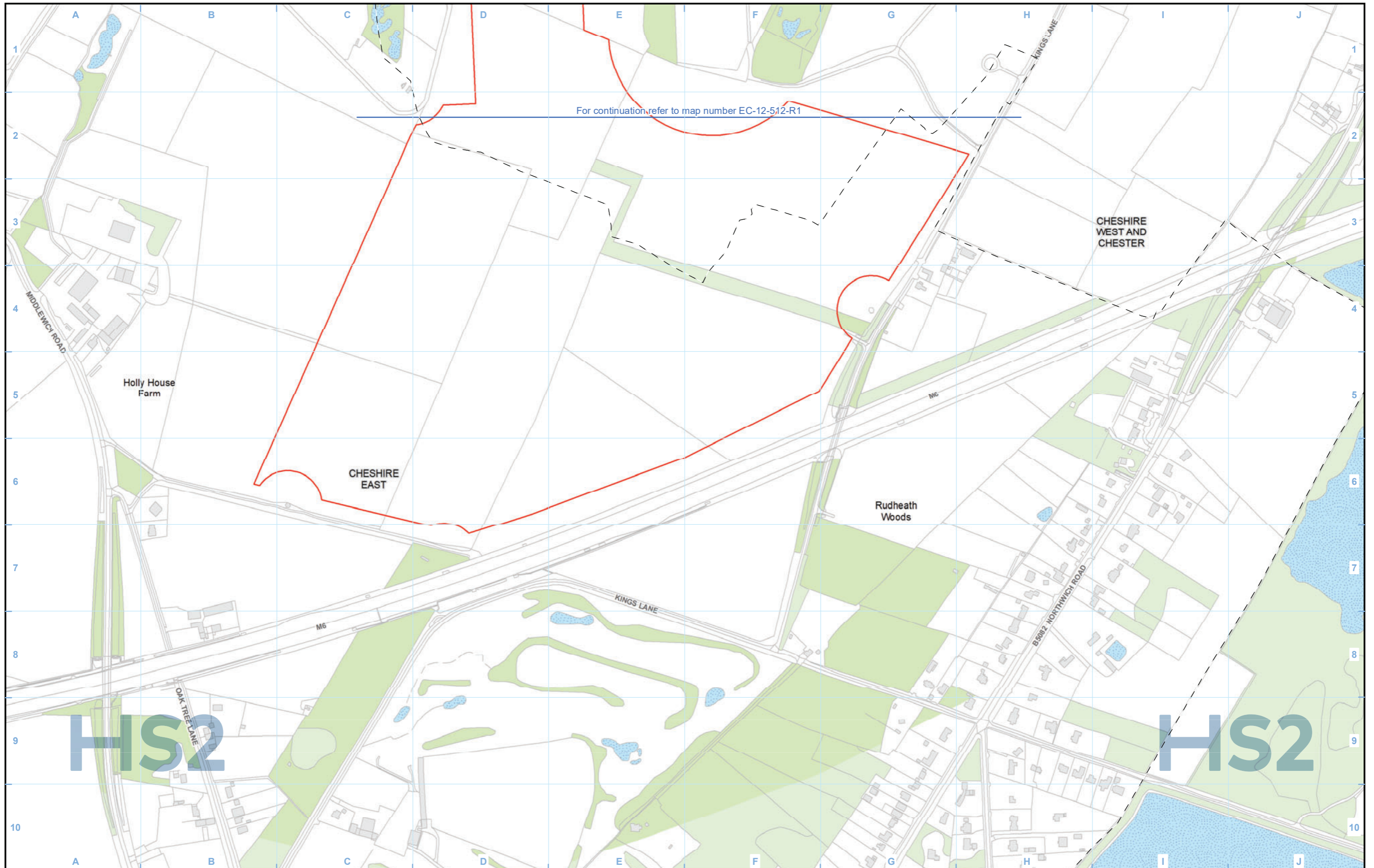
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Scale at A3: 1:5,000

Metres

Date: 10/08/21

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Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-512-R2
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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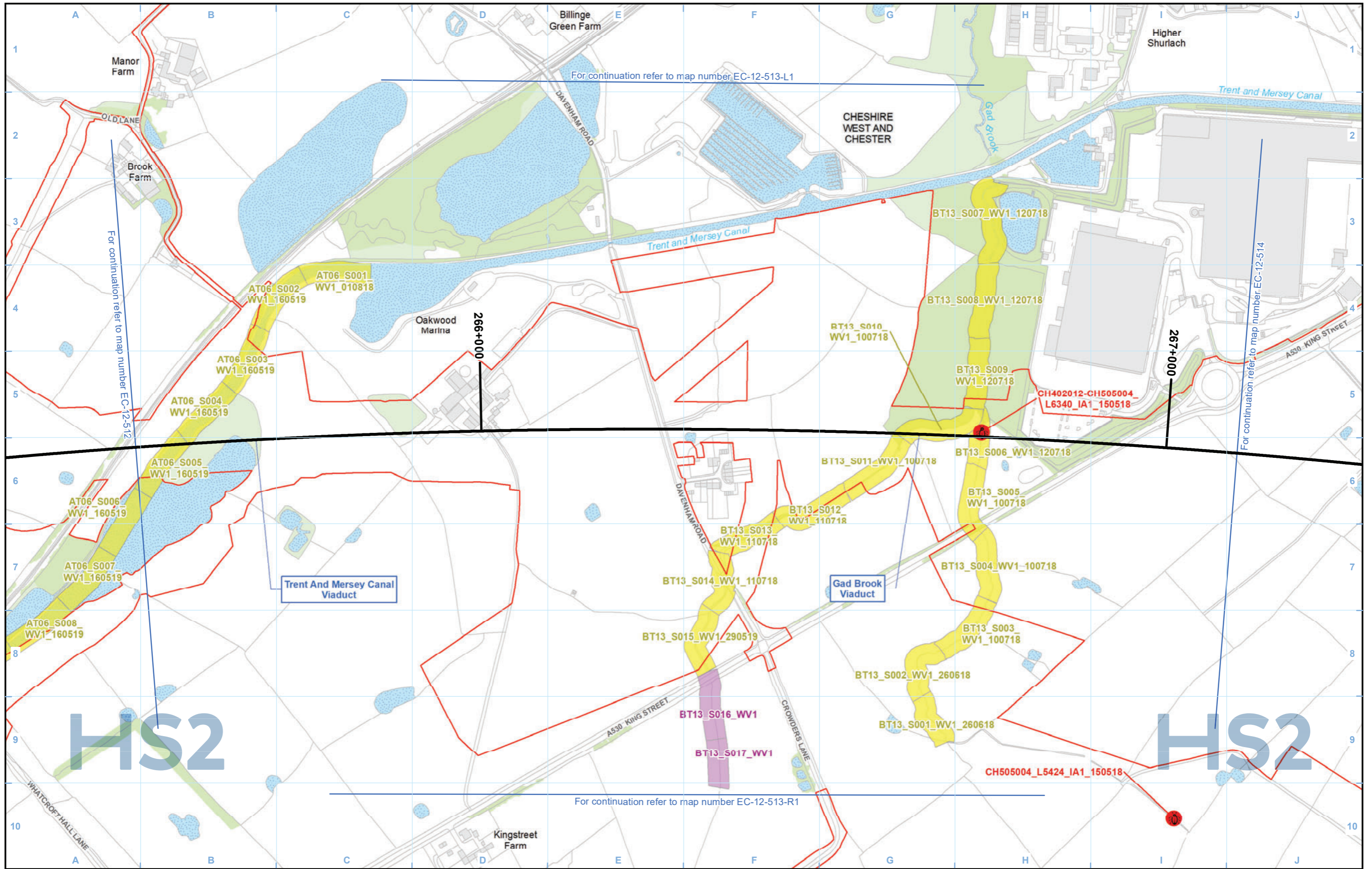
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Scale at A3: 1:5,000

Date: 10/08/21

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**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>	<ul style="list-style-type: none"> <li><b>Water vole:</b></li> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number: EC-12-513

Map Name: Other Protected and Notable Species (2)

Community Area MA02: Wimboldsley to Lostock Gralam

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Doc Number: 2DE01-MWJ-EV-MAP-M000-001525-P01

Scale at A3: 1:5,000

Date: 10/08/21



For continuation refer to map number EC-12-513

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number **EC-12-513-L1**

Map Name **Other Protected and Notable Species (2)**

Community Area MA02:  
Wimboldsley to Lostock Gralam

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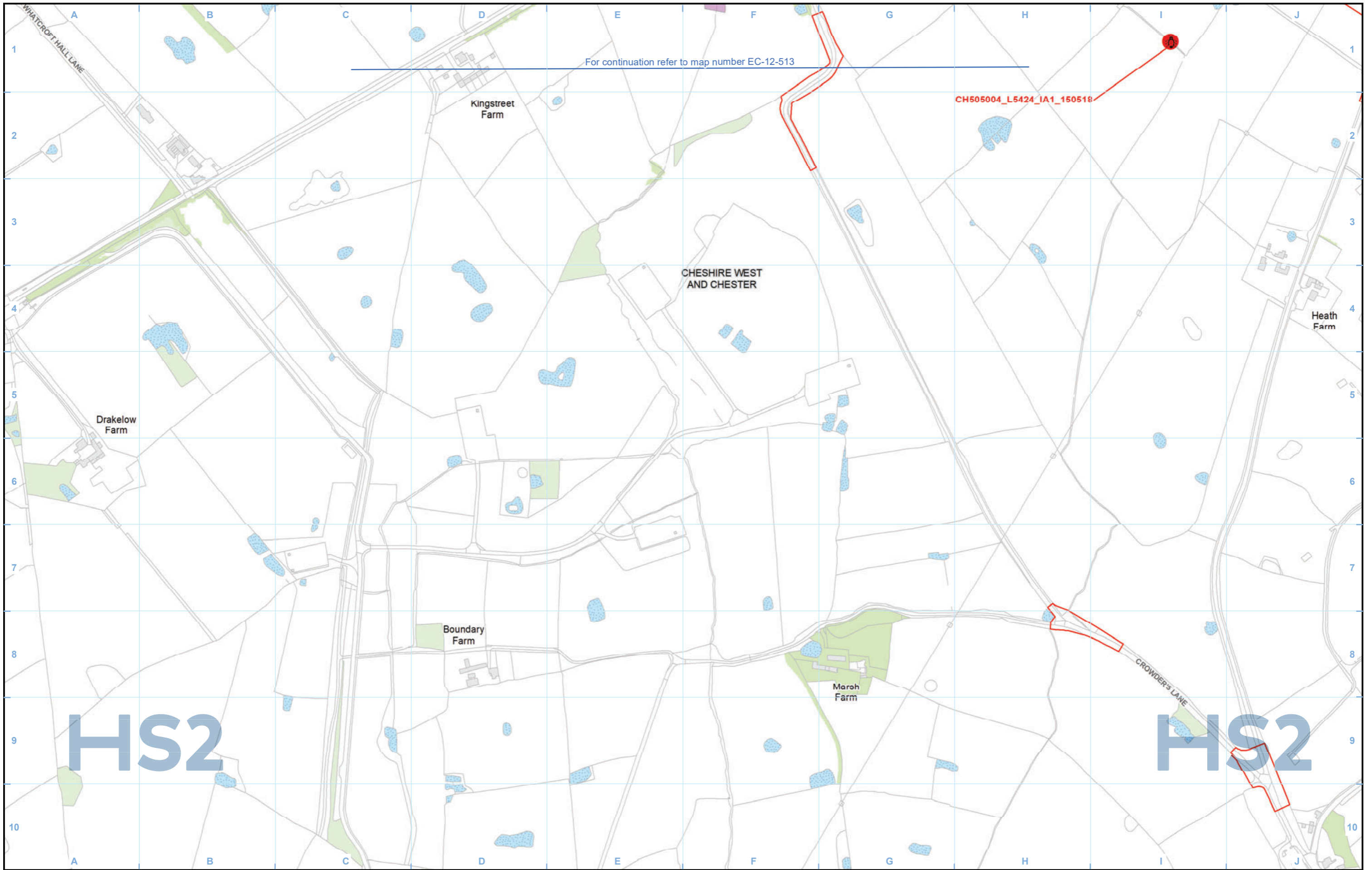
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Scale at A3: 1:5,000

Metres

Date: 10/08/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-513-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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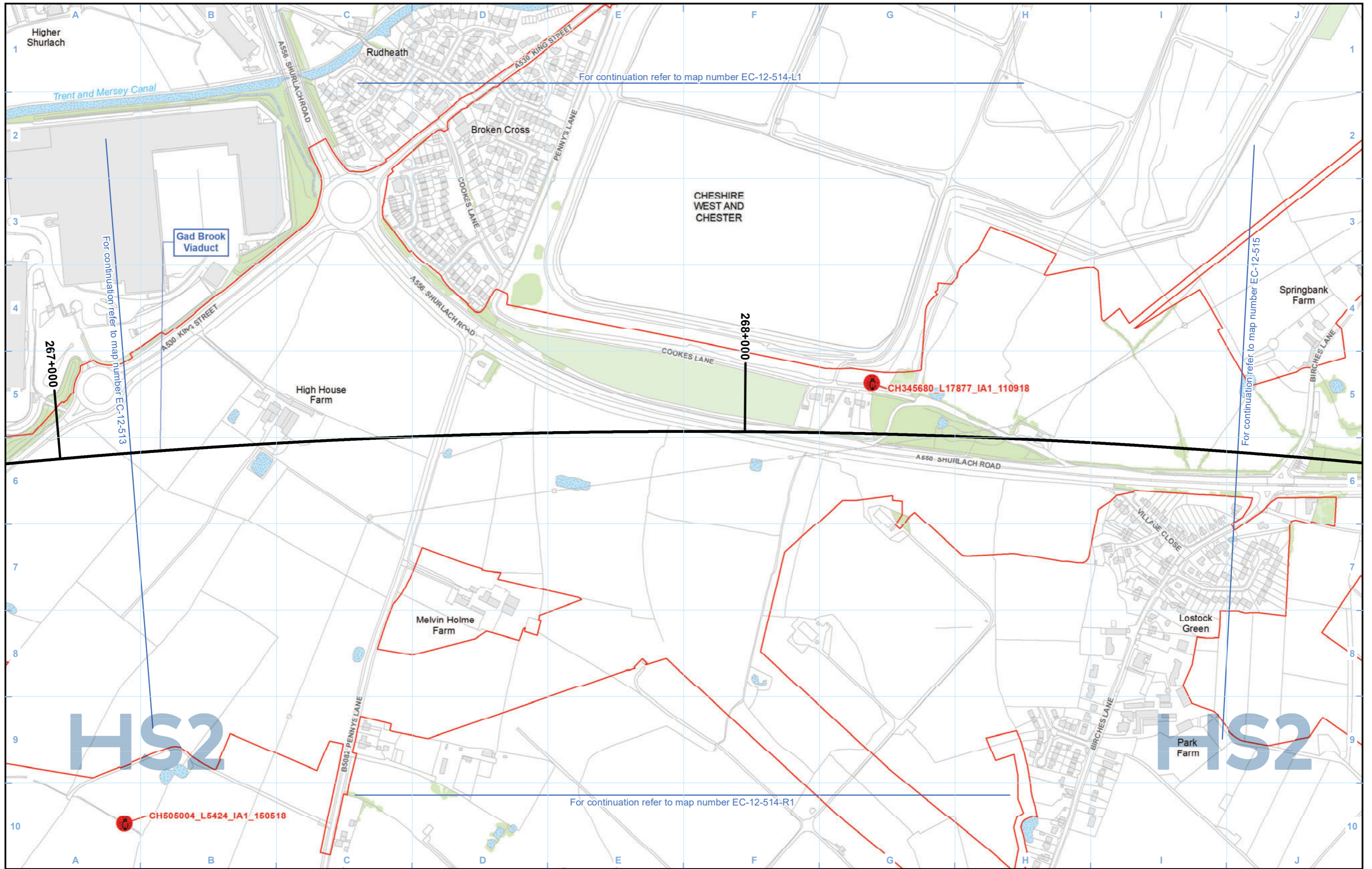
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Scale at A3: 1:5,000

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Date: 10/08/21

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Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-514
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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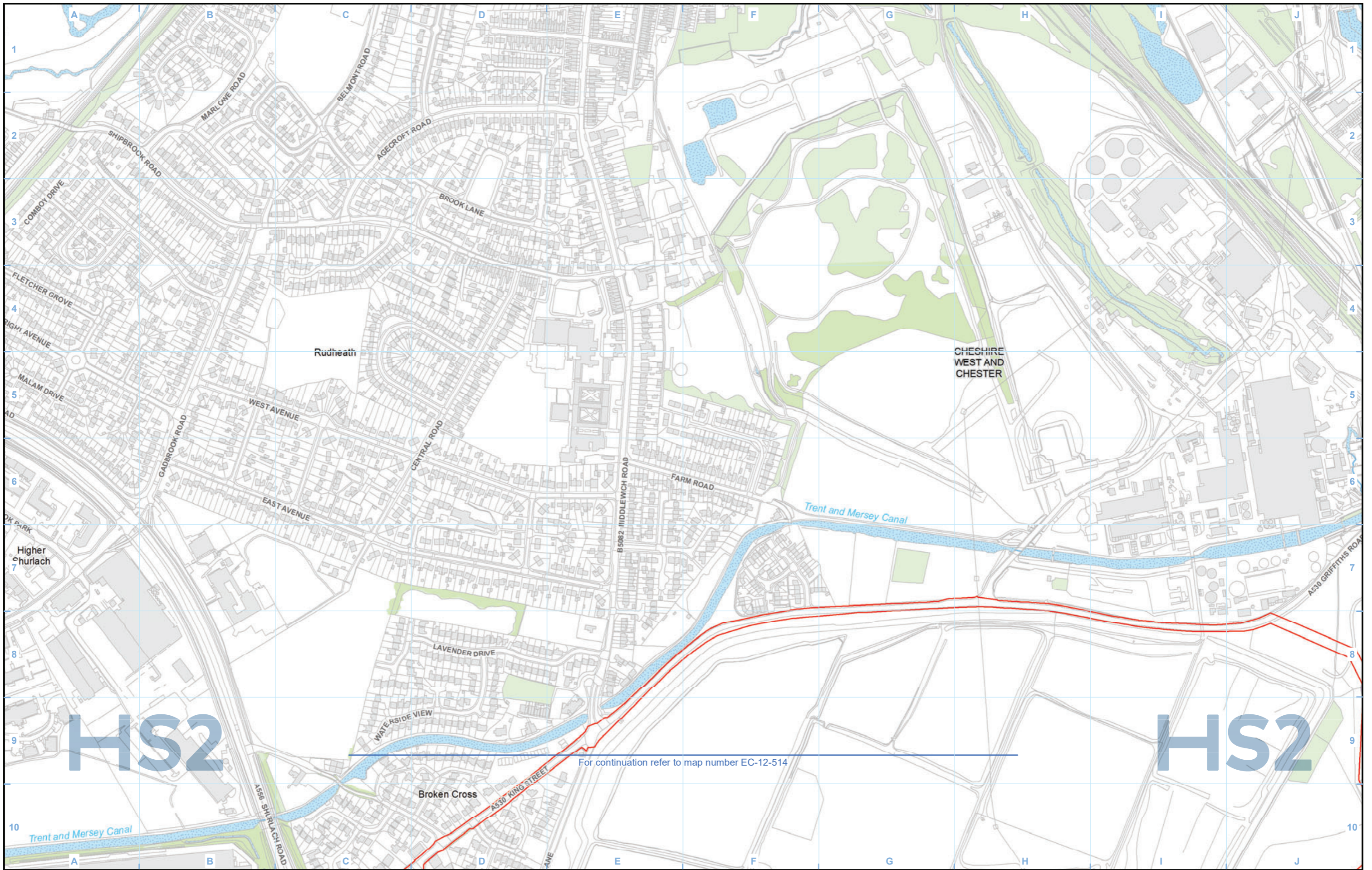
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001526-P01

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Date: 10/08/21

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- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number **EC-12-514-L1**

Map Name **Other Protected and Notable Species (2)**

Community Area MA02:  
Wimboldsley to Lostock Gralam

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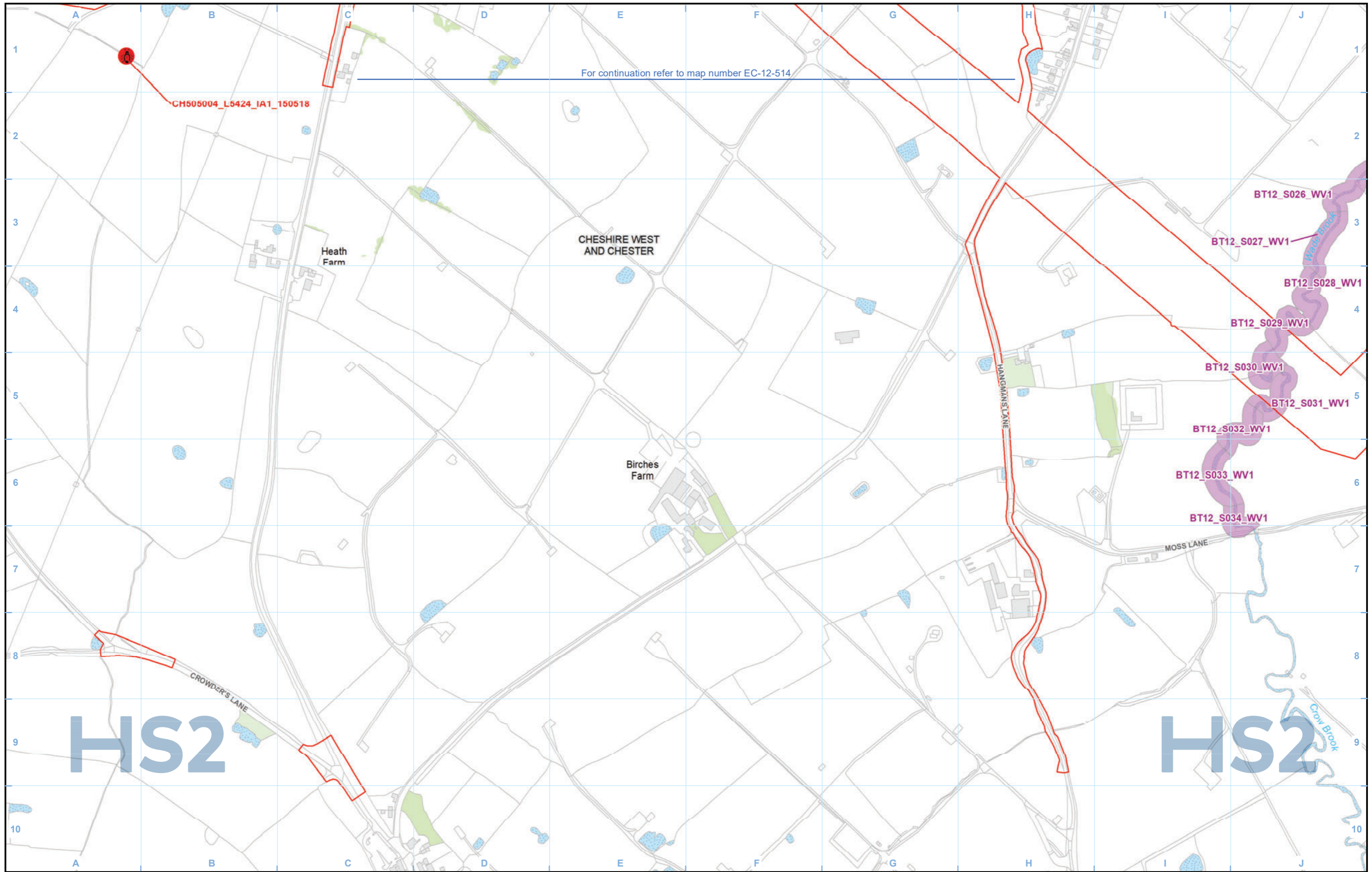
Scale at A3: 1:5,000

Metres

Date: 10/08/21

For continuation refer to map number EC-12-514





For continuation refer to map number EC-12-514

CH505004\_L5424\_IA1\_150518

Heath Farm

CHESHIRE WEST AND CHESTER

Birches Farm

BT12\_S026\_WV1

BT12\_S027\_WV1

BT12\_S028\_WV1

BT12\_S029\_WV1

BT12\_S030\_WV1

BT12\_S031\_WV1

BT12\_S032\_WV1

BT12\_S033\_WV1

BT12\_S034\_WV1

HS2

HS2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number EC-12-514-R1

Map Name Other Protected and Notable Species (2)

Community Area MA02: Wimboldsley to Lostock Gralam

**HS2**

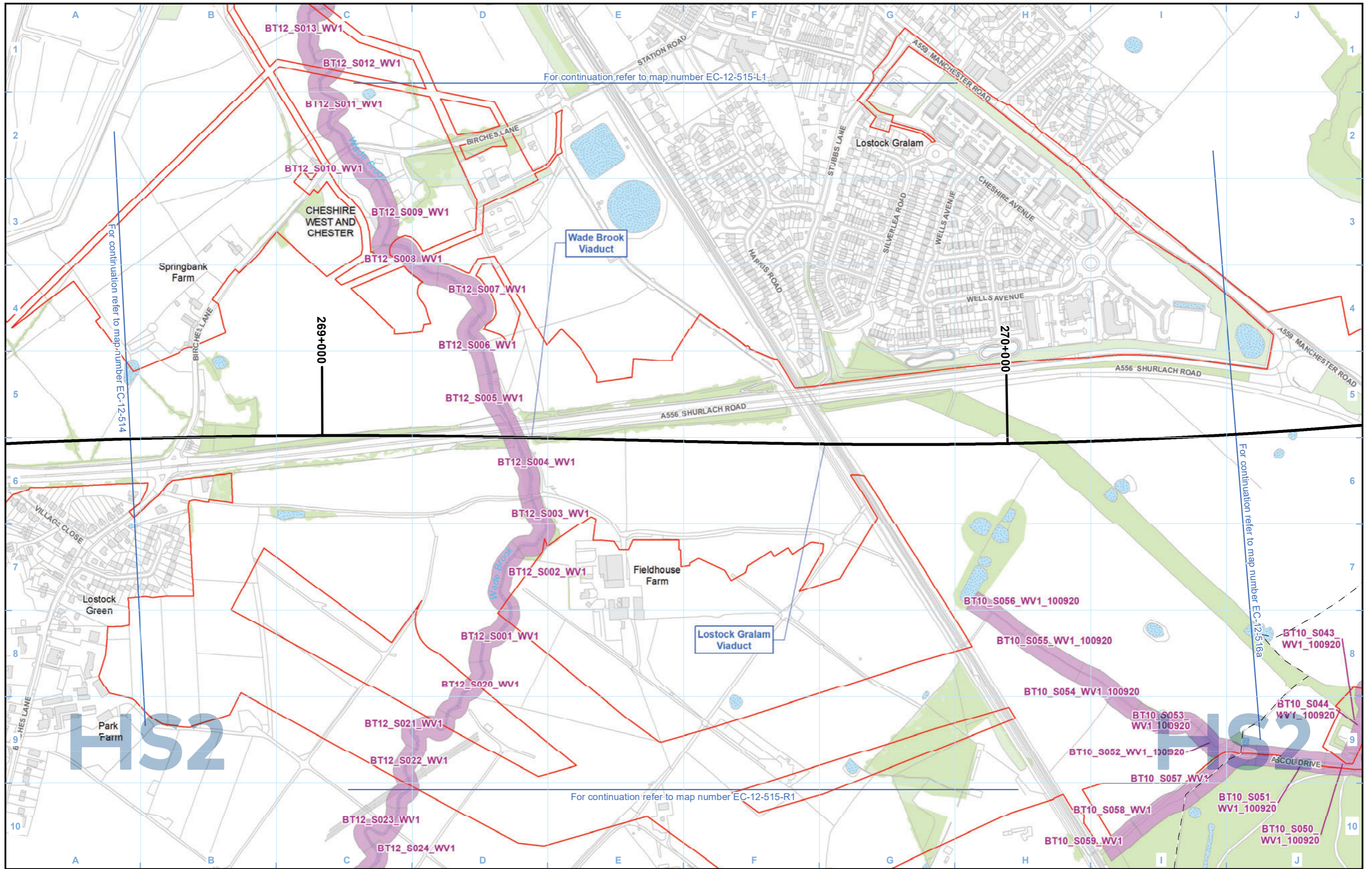
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003475-P01

Date: 10/08/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-515
Map Name	Other Protected and Notable Species (2)
	Community Area MA02: Wimboldsley to Lostock Gralam

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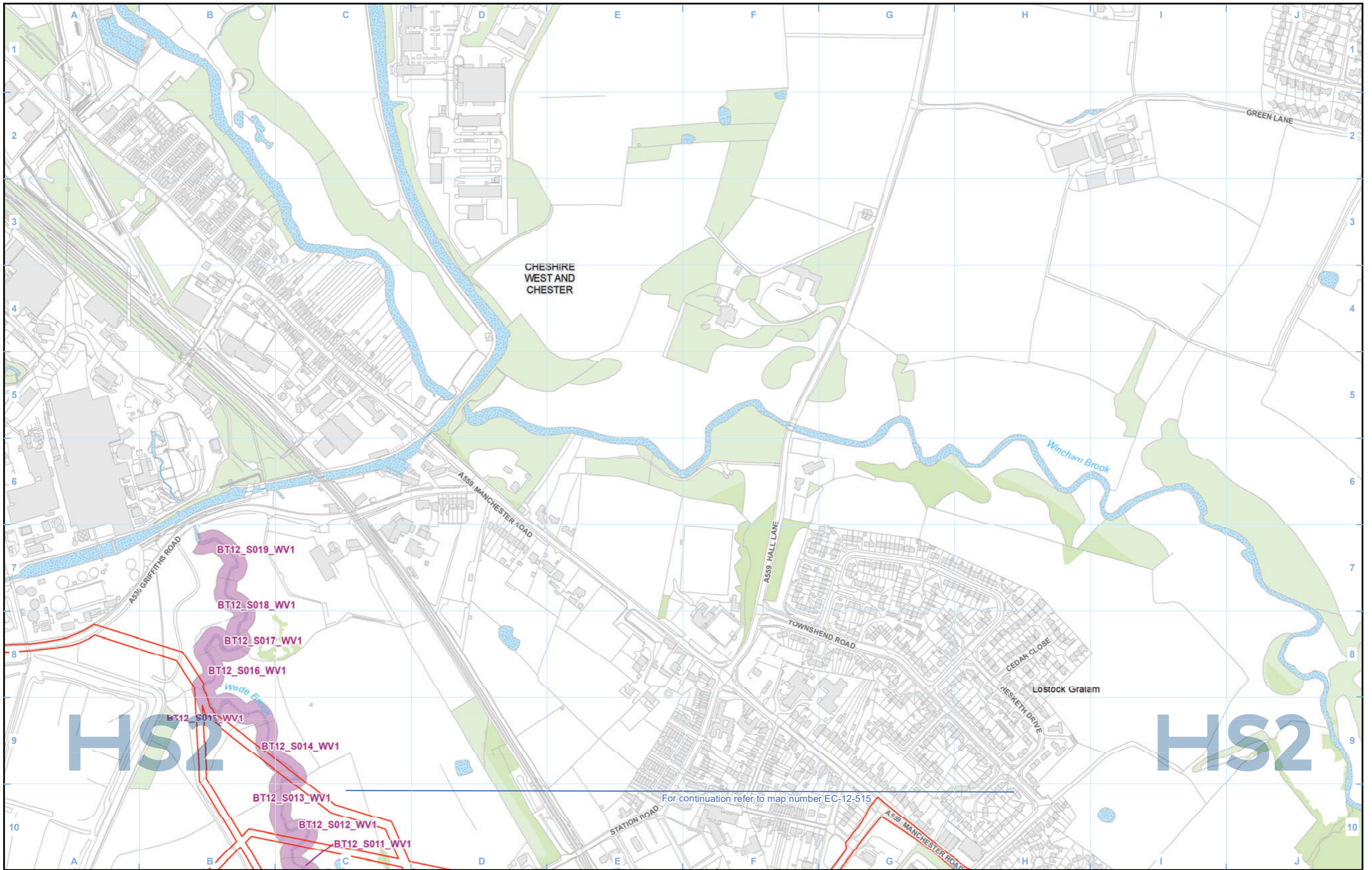
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001527-P01

Scale at A3: 1:5,000

Metres

Date: 10/08/21



**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

For continuation refer to map number EC-12-515

Map Number	EC-12-515-L1
Map Name	Other Protected and Notable Species (2)
Community Area MA02: Wimboldsley to Lostock Gralam	

**HS2**

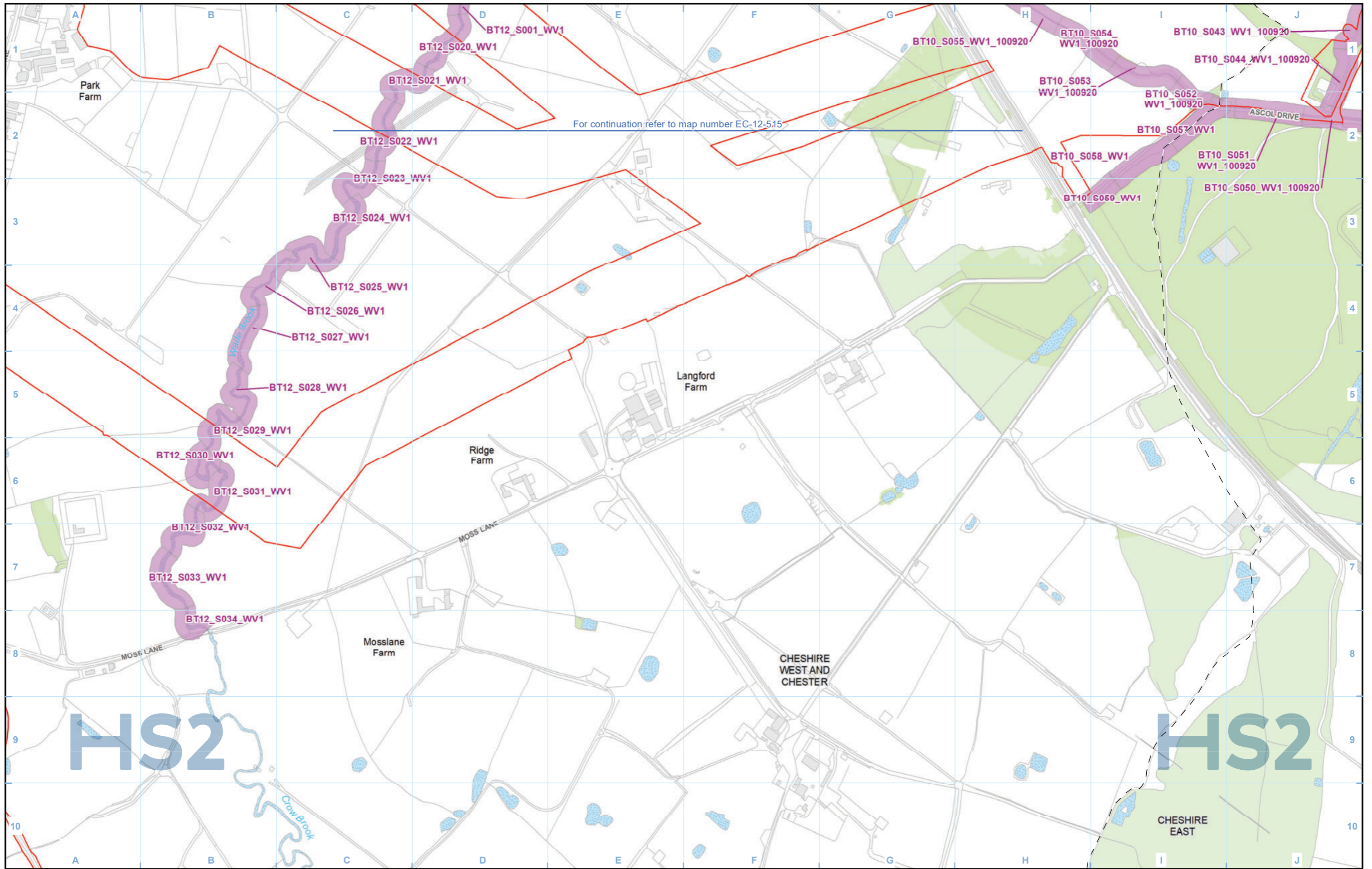
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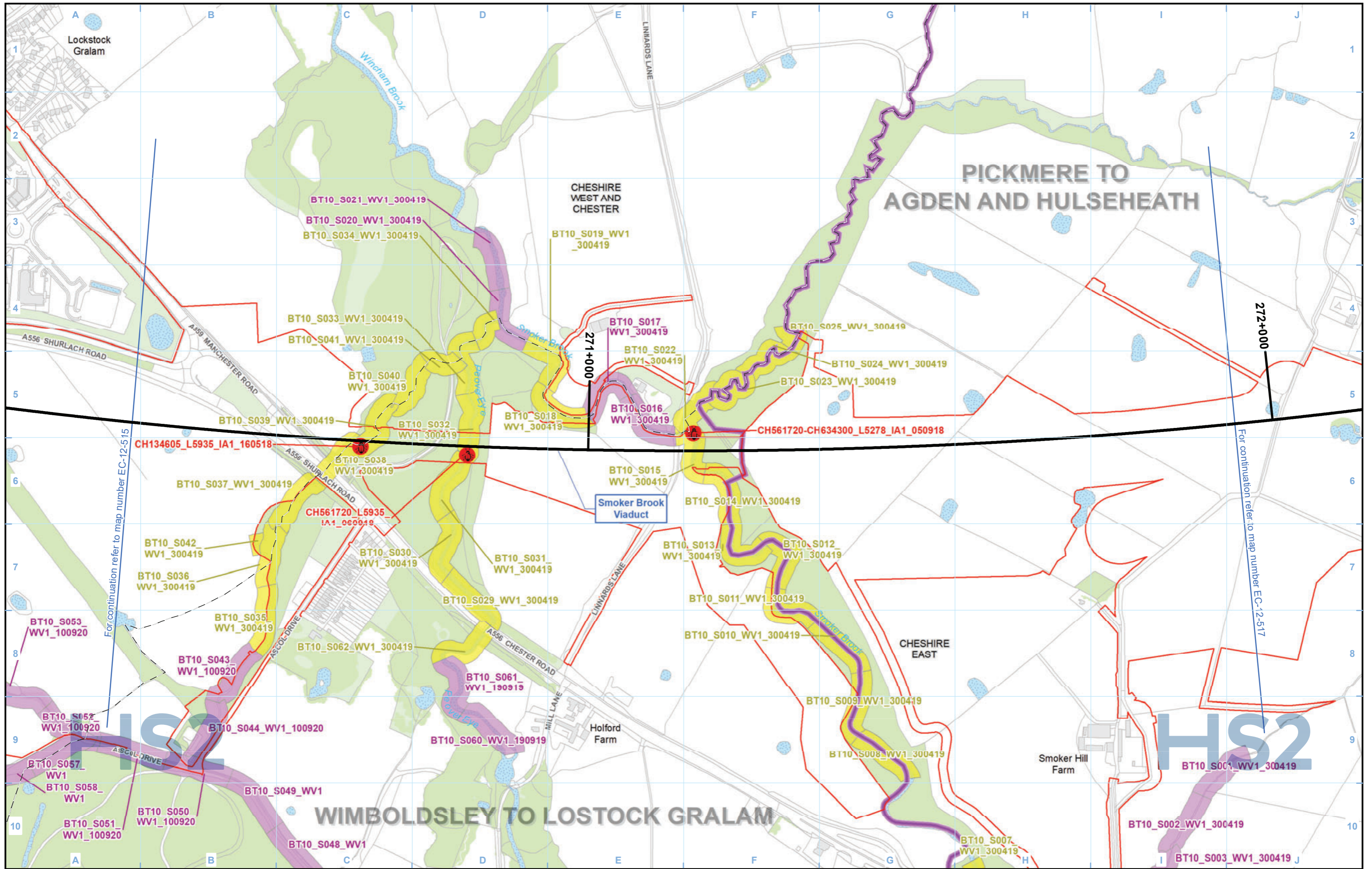
Scale at A3: 1:5,000

Doc Number: 2DE01-MWJ-EV-MAP-M000-003476-P01

Date: 10/08/21



<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) <b>Aquatic invertebrate:</b> Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey		Map Number <b>EC-12-515-R1</b>	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Metres</p>	
<b>Map Name</b> <b>Other Protected and Notable Species (2)</b>		<b>Community Area MA02:</b> Wimboldsley to Lostock Gralam		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003477-P01	<b>Date:</b> 10/08/21			



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>	<ul style="list-style-type: none"> <li><b>Water vole:</b></li> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number: EC-12-516a

Map Name: Other Protected and Notable Species (2)

Community Area MA02: Wimboldsley to Lostock Gralam

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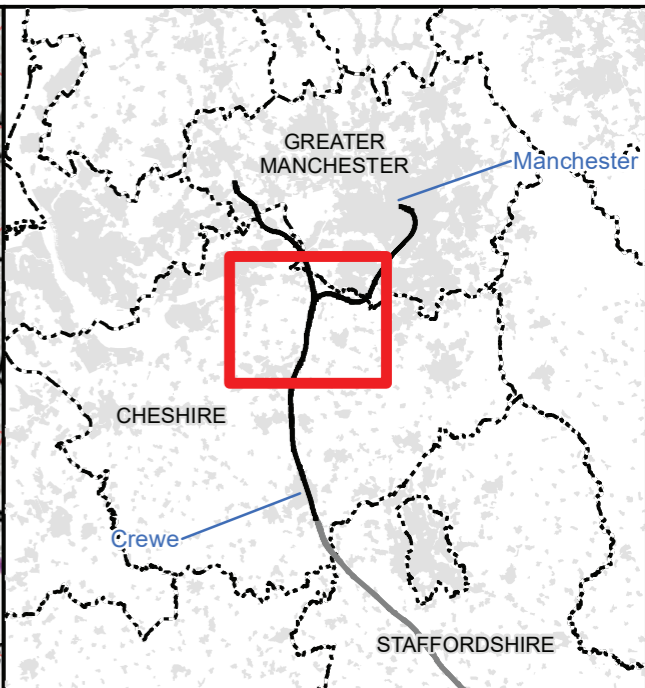
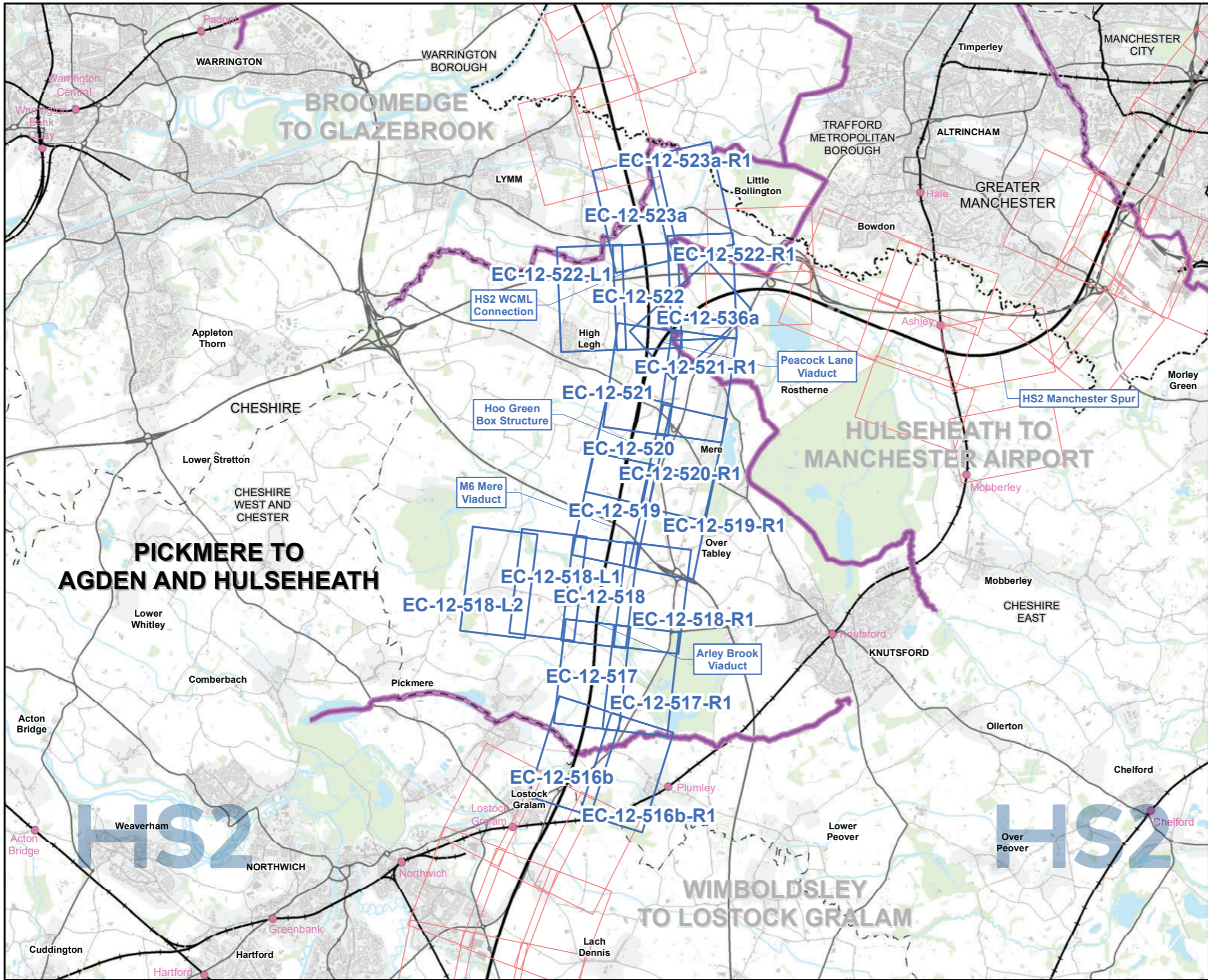
Doc Number: 2DE01-MWJ-EV-MAP-M000-001528-P01

Date: 10/08/21

Scale at A3: 1:5,000

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**Map Series Information:**

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-12-INDEX-MA03
Map Name	Index Map of: Other Protected and Notable Species (2)
	Community Area MA03: Pickmere to Agden and Hulseheath

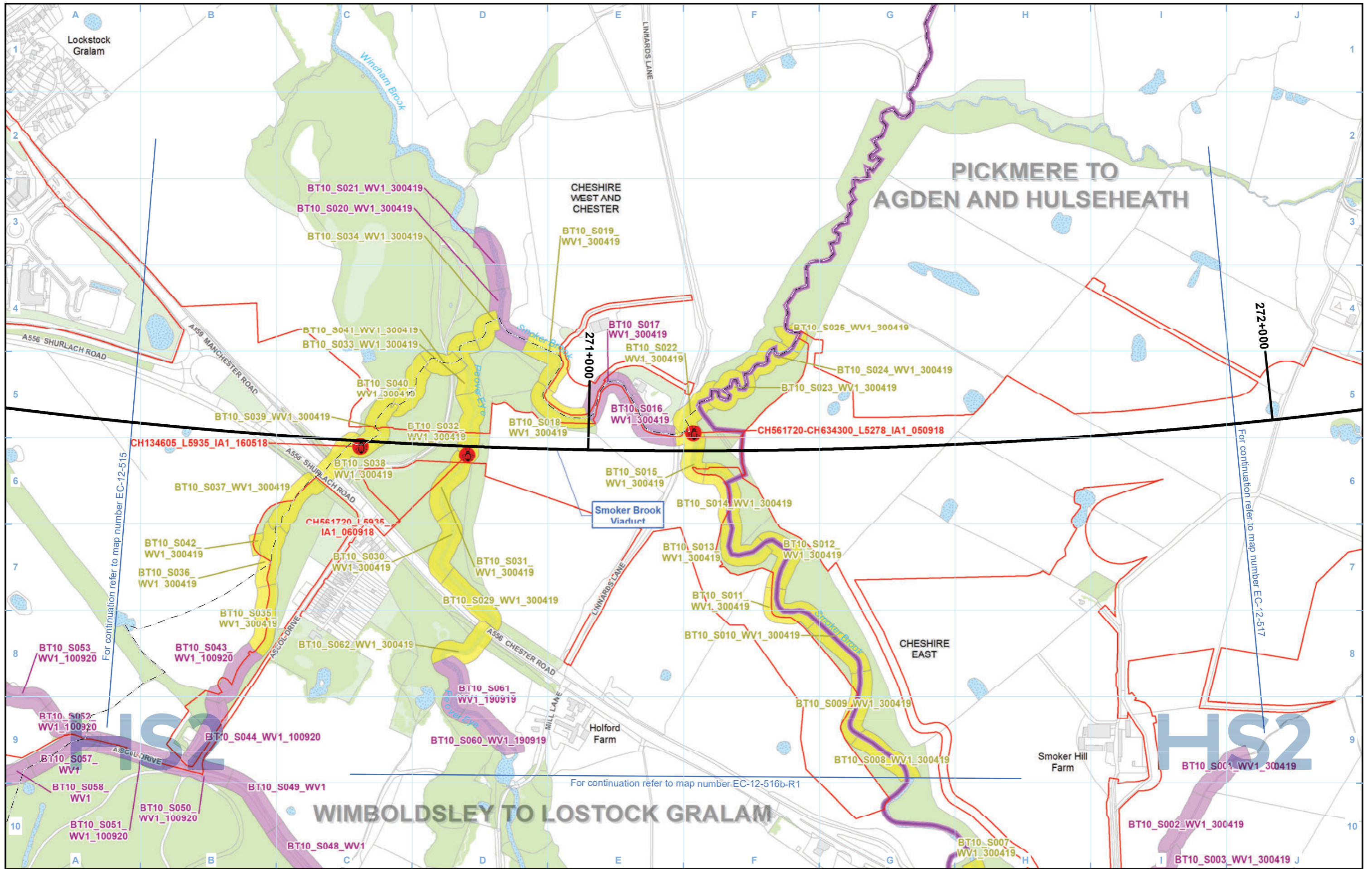
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001587-P01      Date: 09/09/21



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Aquatic invertebrate survey location</li> </ul>	<p>Water vole:</p> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number	EC-12-516b
Map Name	Other Protected and Notable Species (2)
Community Area MA03: Pickmere to Agden and Hulseheath	

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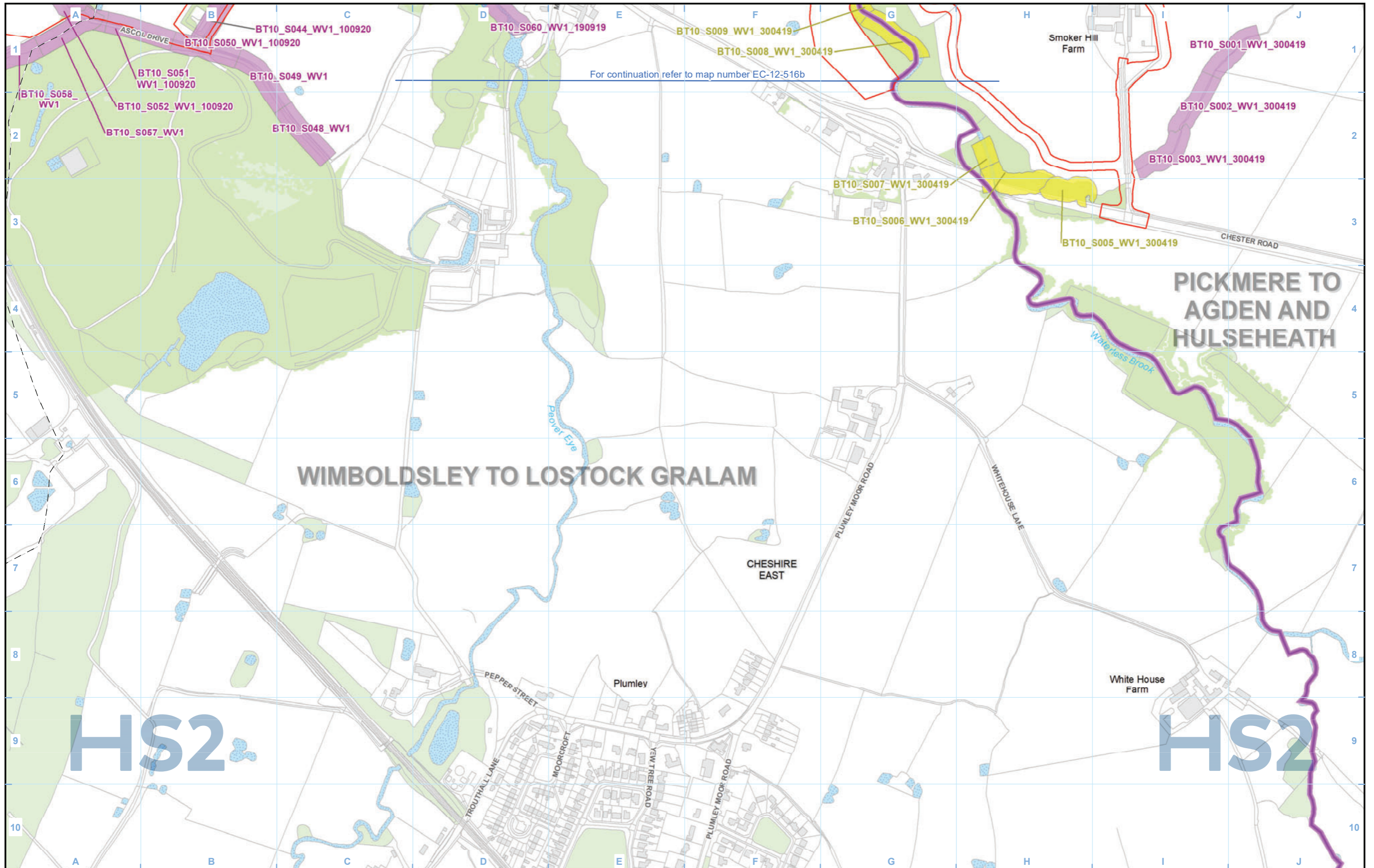
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Date: 09/09/21





For continuation refer to map number EC-12-516b

# WIMBOLDSLEY TO LOSTOCK GRALAM

# PICKMERE TO AGDEN AND HULSEHEATH

# HS2

# HS2

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Aquatic invertebrate survey location

Water vole:	
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-516b-R1
Map Name	Other Protected and Notable Species (2)
Community Area MA03: Pickmere to Agden and Hulseheath	

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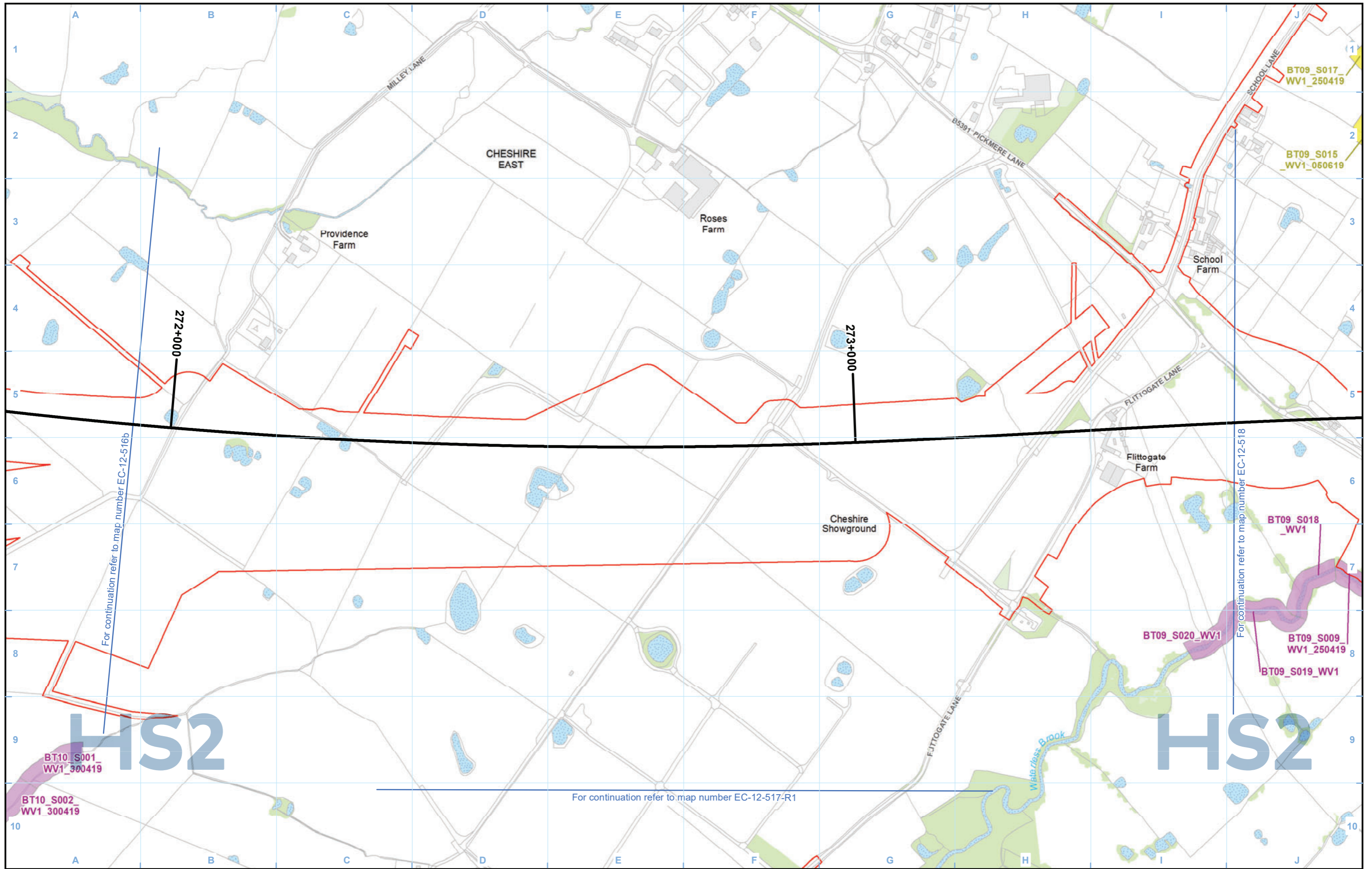
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Scale at A3: 1:5,000

Metres

Date: 09/09/21



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate survey location
- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

**Water vole:**

- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

**Watercourse:**

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate survey location

Map Number: EC-12-517

Map Name: Other Protected and Notable Species (2)

Community Area MA03: Pickmere to Agden and Hulseheath

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Date: 09/09/21

Scale at A3: 1:5,000

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For continuation refer to map number EC-12-517

**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number	EC-12-517-R1
Map Name	Other Protected and Notable Species (2)
Community Area MA03: Pickmere to Agden and Hulseheath	

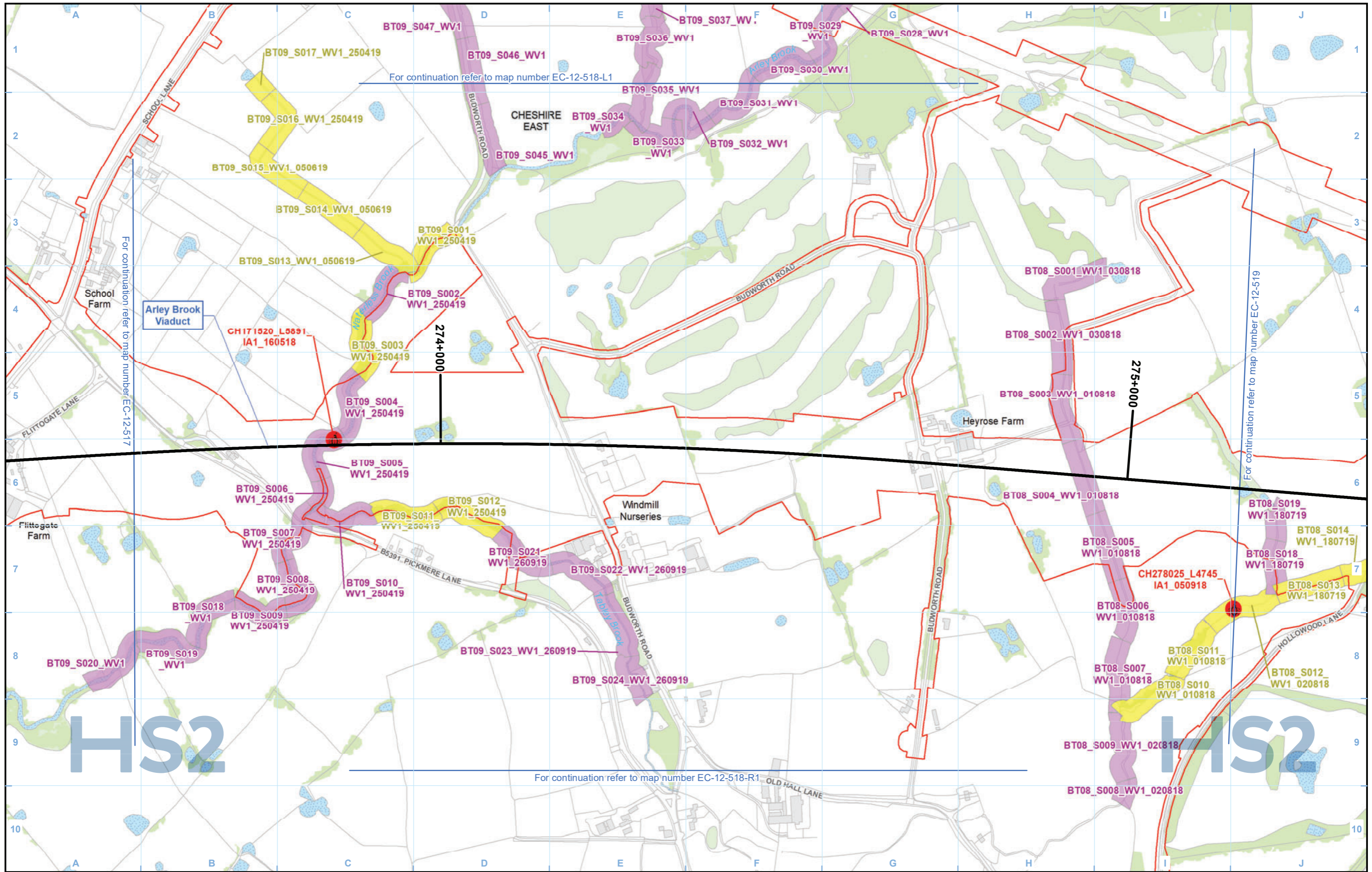
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003479-P01 Date: 09/09/21



**Legend**

		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

	Watercourse
	Water body
	Woodland (verified by survey)
	Aquatic invertebrate:
	Aquatic invertebrate survey location

	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-518
Map Name	Other Protected and Notable Species (2)
Community Area MA03: Pickmere to Agden and Hulseheath	

**HS2**

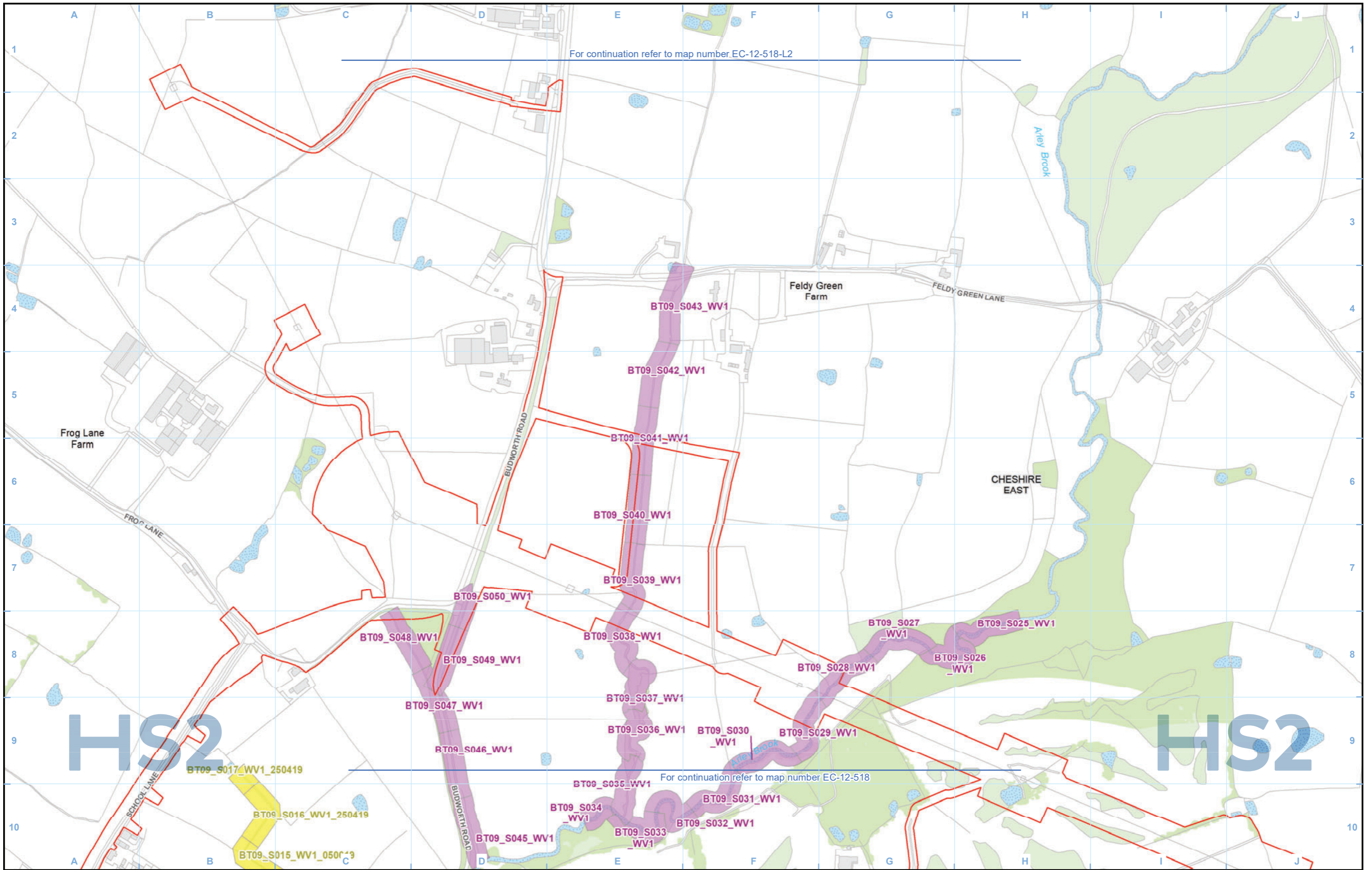
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Date: 09/09/21

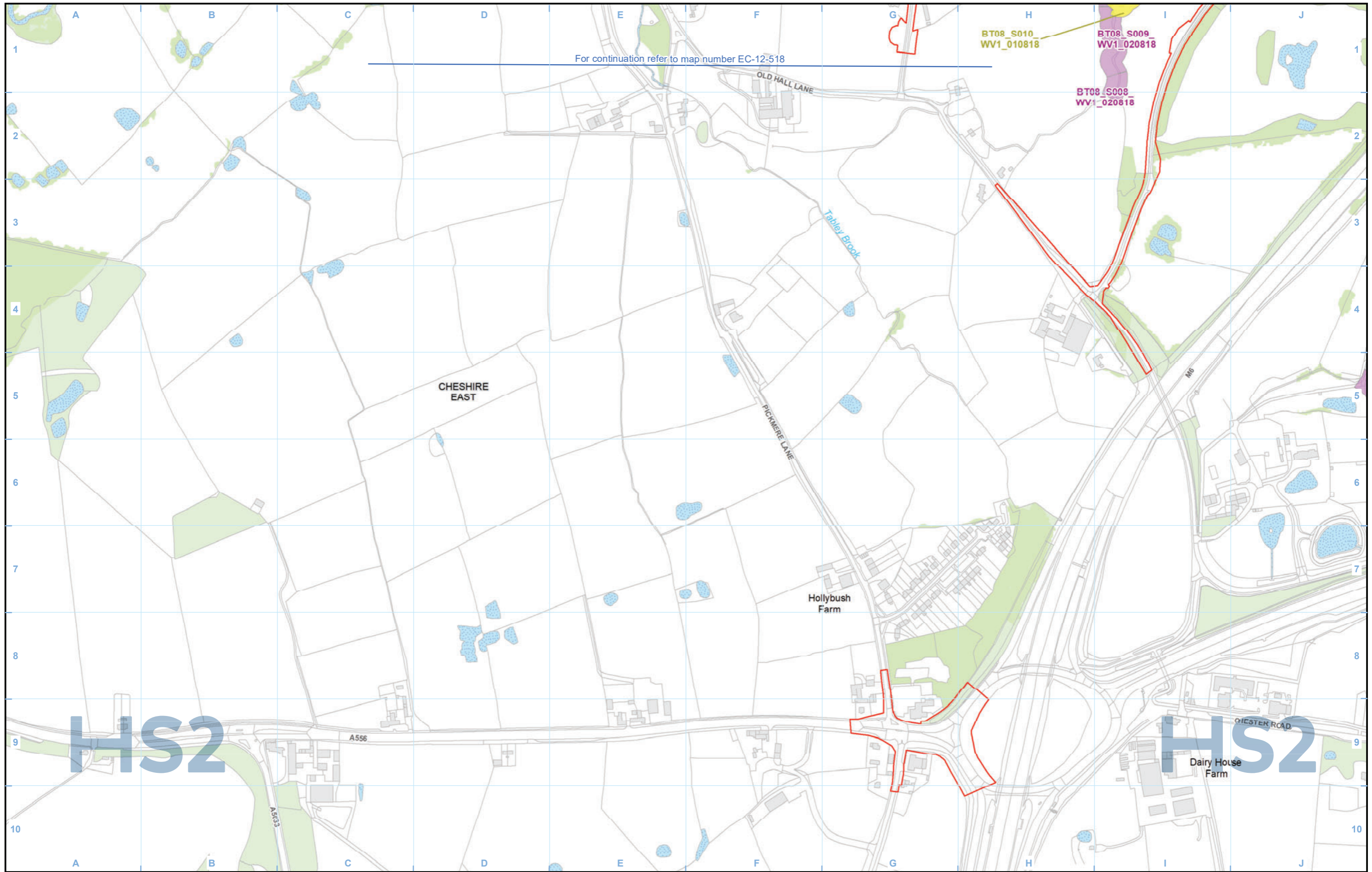


For continuation refer to map number EC-12-518-L2

For continuation refer to map number EC-12-518

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>		Map Number <b>EC-12-518-L1</b>	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Metres</p>	
Map Name <b>Other Protected and Notable Species (2)</b>		Community Area MA03: Pickmere to Agden and Hulseheath		Doc Number: 2DE01-MWJ-EV-MAP-M000-003480-P01		





Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-518-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA03: Pickmere to Agden and Hulseheath

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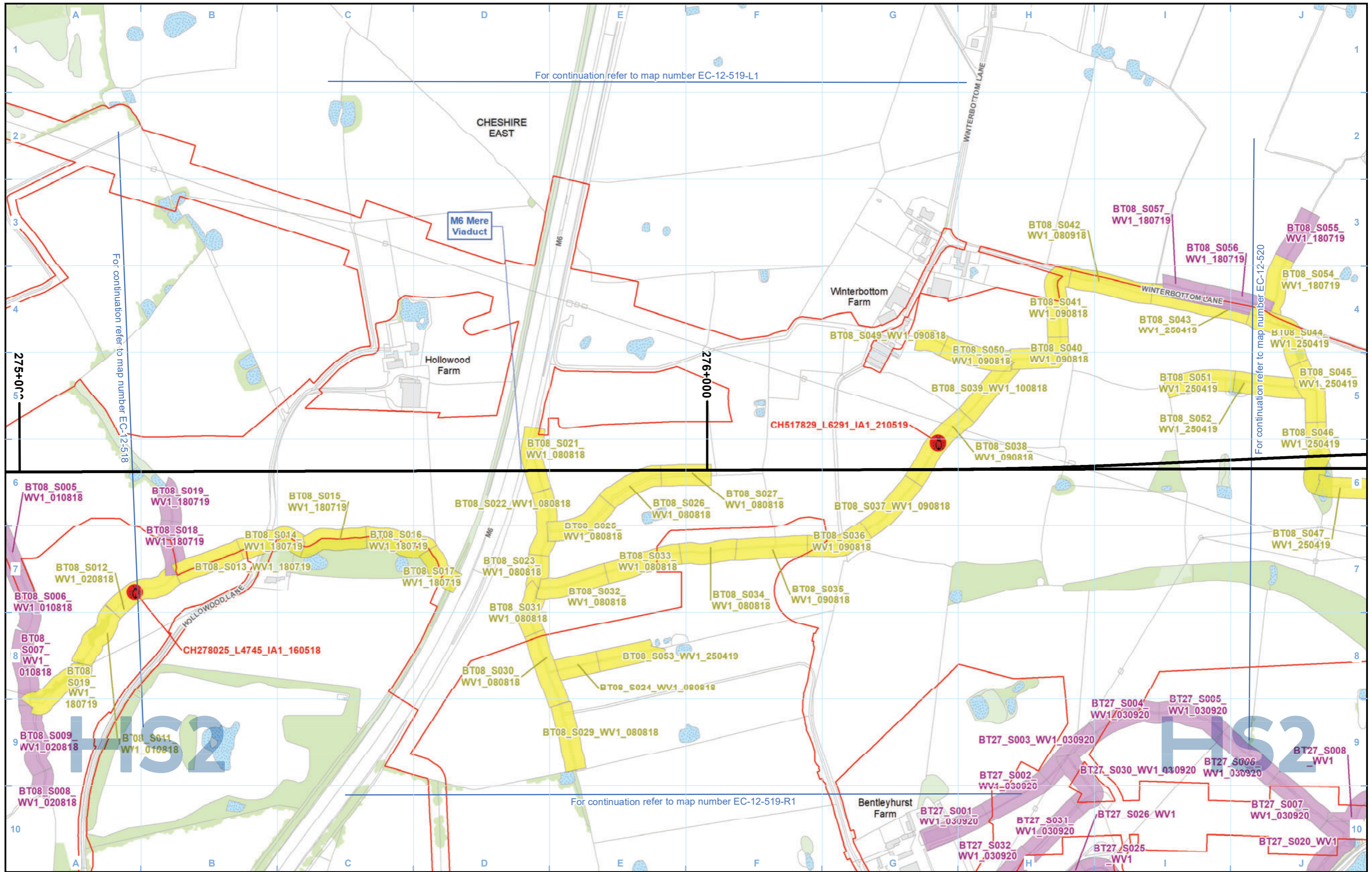
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For continuation refer to map number EC-12-519-L1

For continuation refer to map number EC-12-519-R1



- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Water body
  - Woodland (verified by survey)
  - Aquatic invertebrate:
  - Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number: EC-12-519

Map Name: Other Protected and Notable Species (2)

Community Area MA03: Pickmere to Agden and Hulseheath

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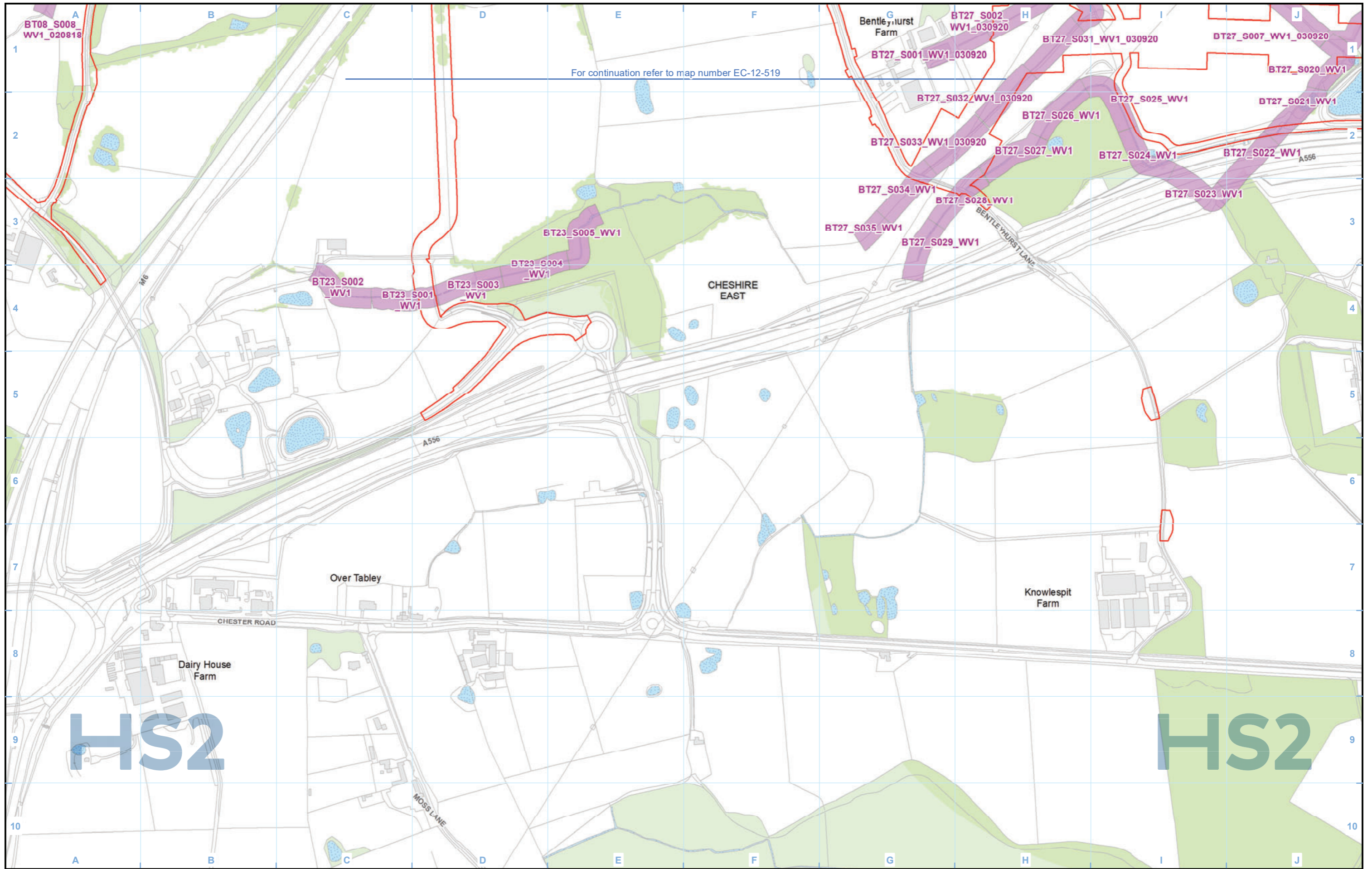
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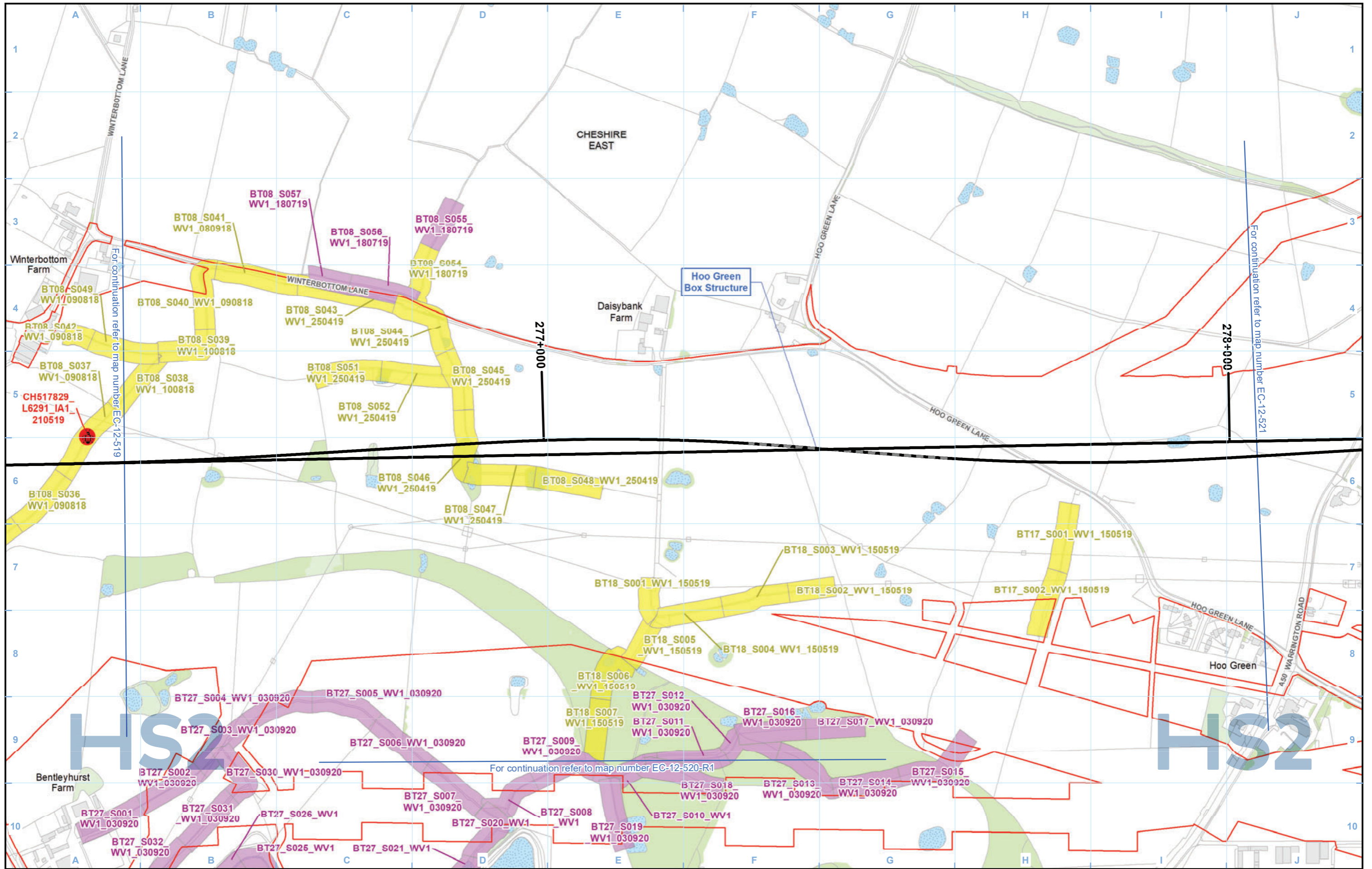
Date: 09/09/21





For continuation refer to map number EC-12-519

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-519-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA03:</b> Pickmere to Agden and Hulse Heath		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003483-P01</small>	
				<b>Date: 09/09/21</b>	



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:
- Aquatic invertebrate survey location

**Water vole:**

- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

For continuation refer to map number EC-12-520-R1

Map Number: EC-12-520

Map Name: Other Protected and Notable Species (2)

Community Area MA03: Pickmere to Agden and Hulseheath

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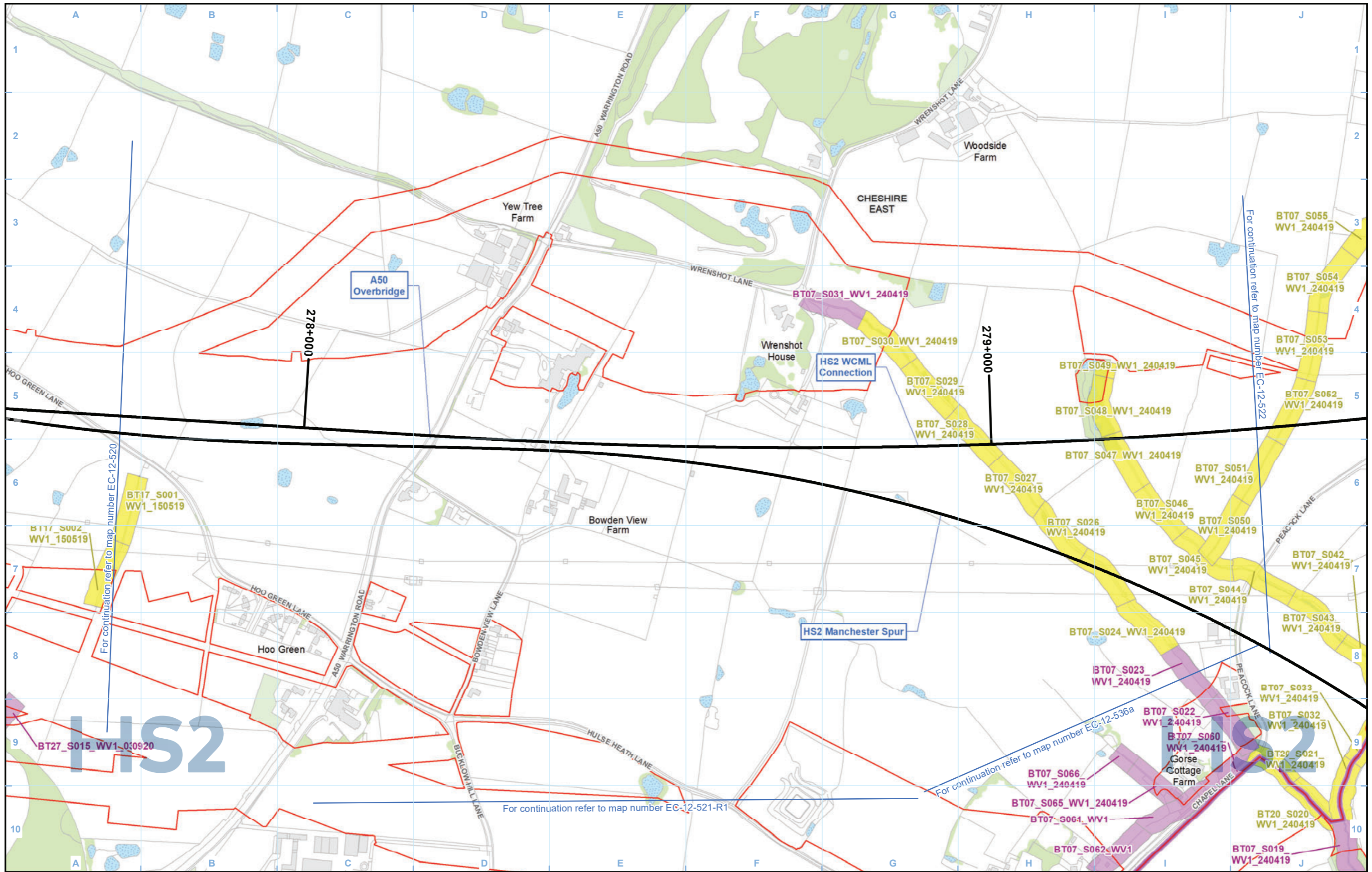
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For continuation refer to map number EC-12-520

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-520-R1		<p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>Scale at A3: 1:5,000</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p><b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003484-P01 <b>Date:</b> 09/09/21</p>	
<b>Map Name</b> Other Protected and Notable Species (2)			
<b>Community Area MA03:</b> Pickmere to Agden and Hulseheath			



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>	<p><b>Water vole:</b></p> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number	EC-12-521
Map Name	Other Protected and Notable Species (2)
Community Area MA03: Pickmere to Agden and Hulseheath	

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For continuation refer to map number EC-12-520

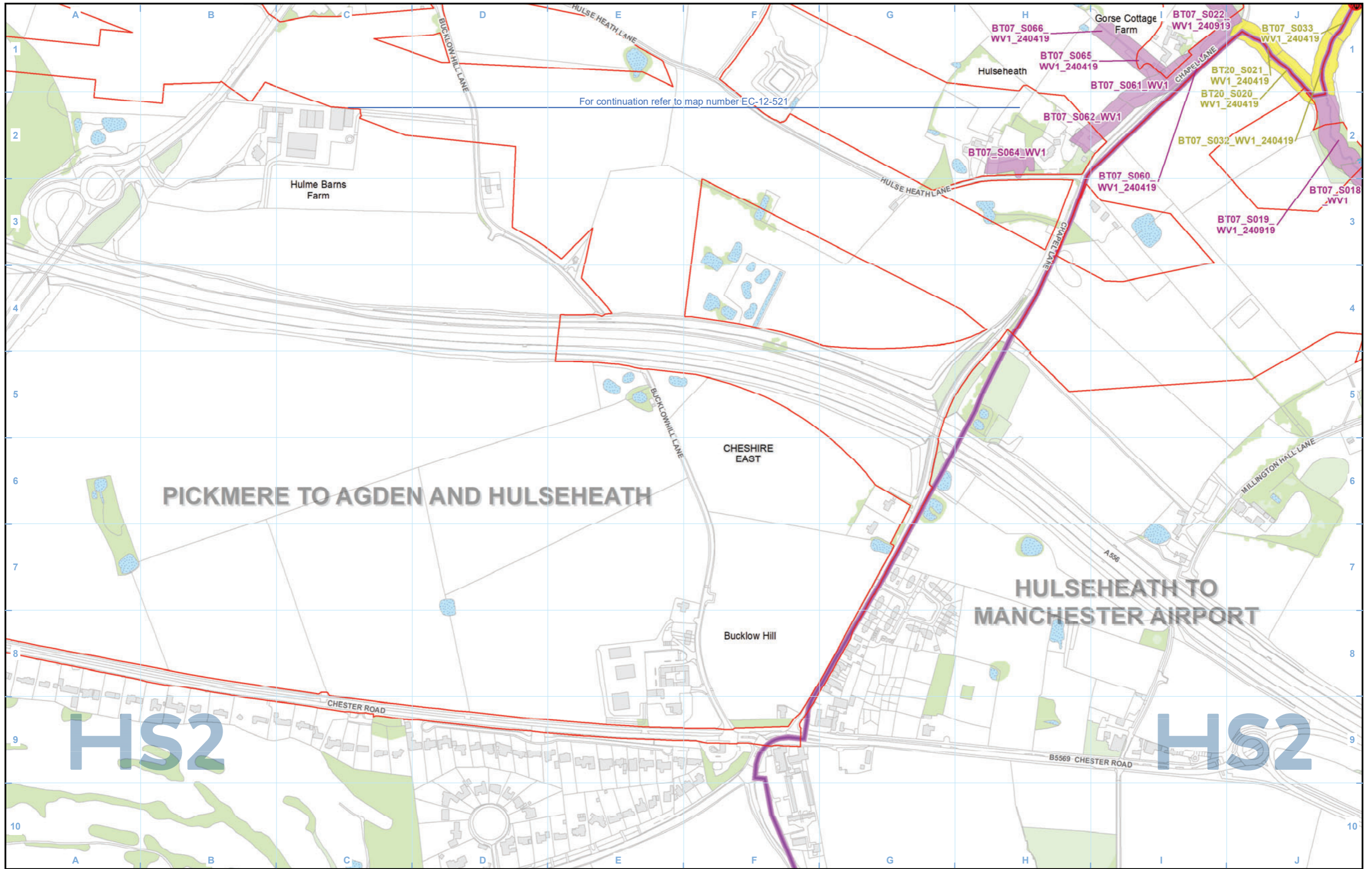
278+000

279+000

For continuation refer to map number EC-12-522

For continuation refer to map number EC-12-536a

For continuation refer to map number EC-12-521-R1



For continuation refer to map number EC-12-521

Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Aquatic invertebrate survey location
	Community area boundary		Water vole survey undertaken - presence confirmed
	County boundary		Water vole survey undertaken - assumed absent
	District/Borough boundary		Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-521-R1
Map Name	Other Protected and Notable Species (2)
Community Area MA03: Pickmere to Agden and Hulseheath	

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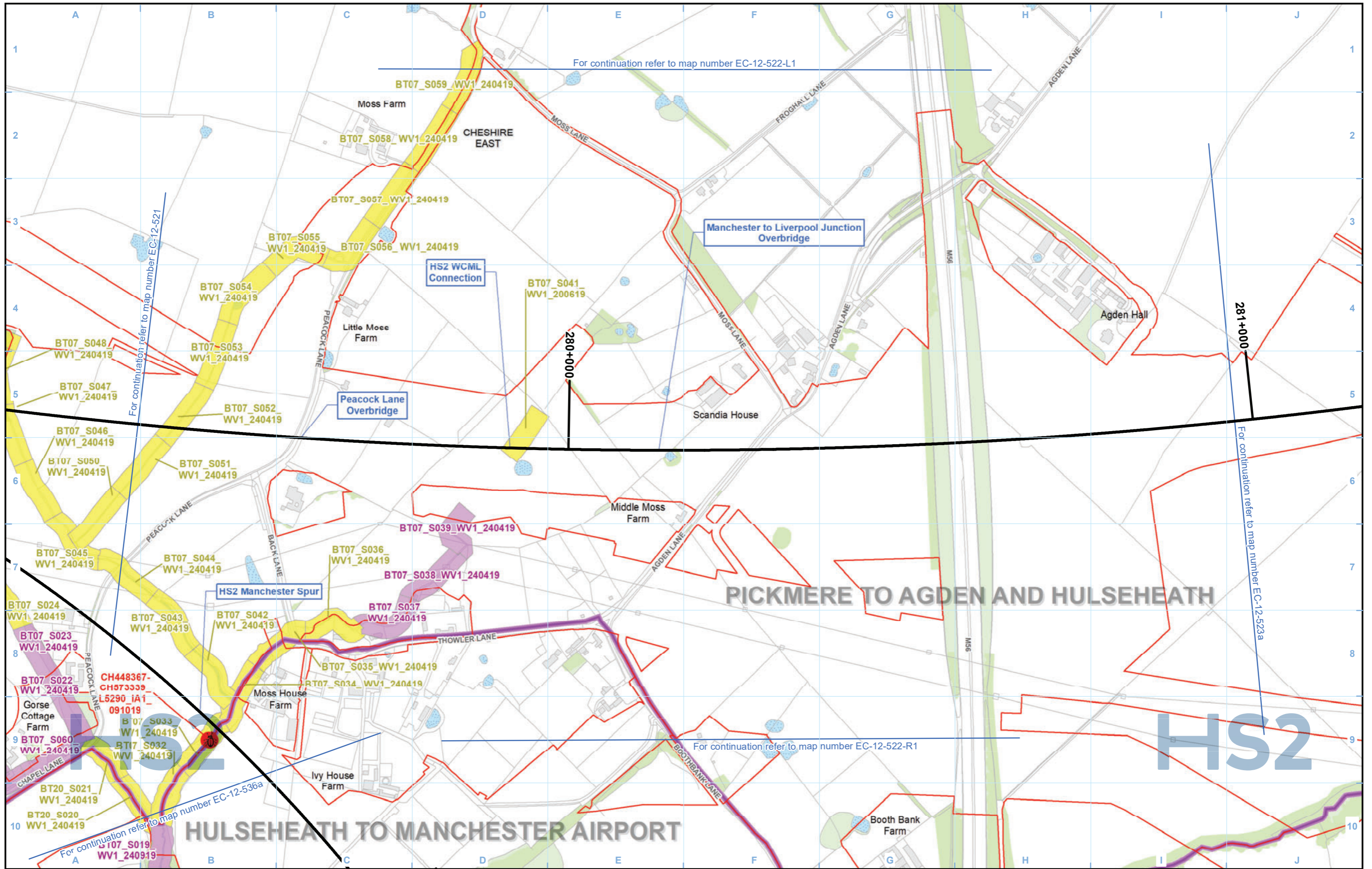
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Scale at A3: 1:5,000

Metres

Date: 09/09/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

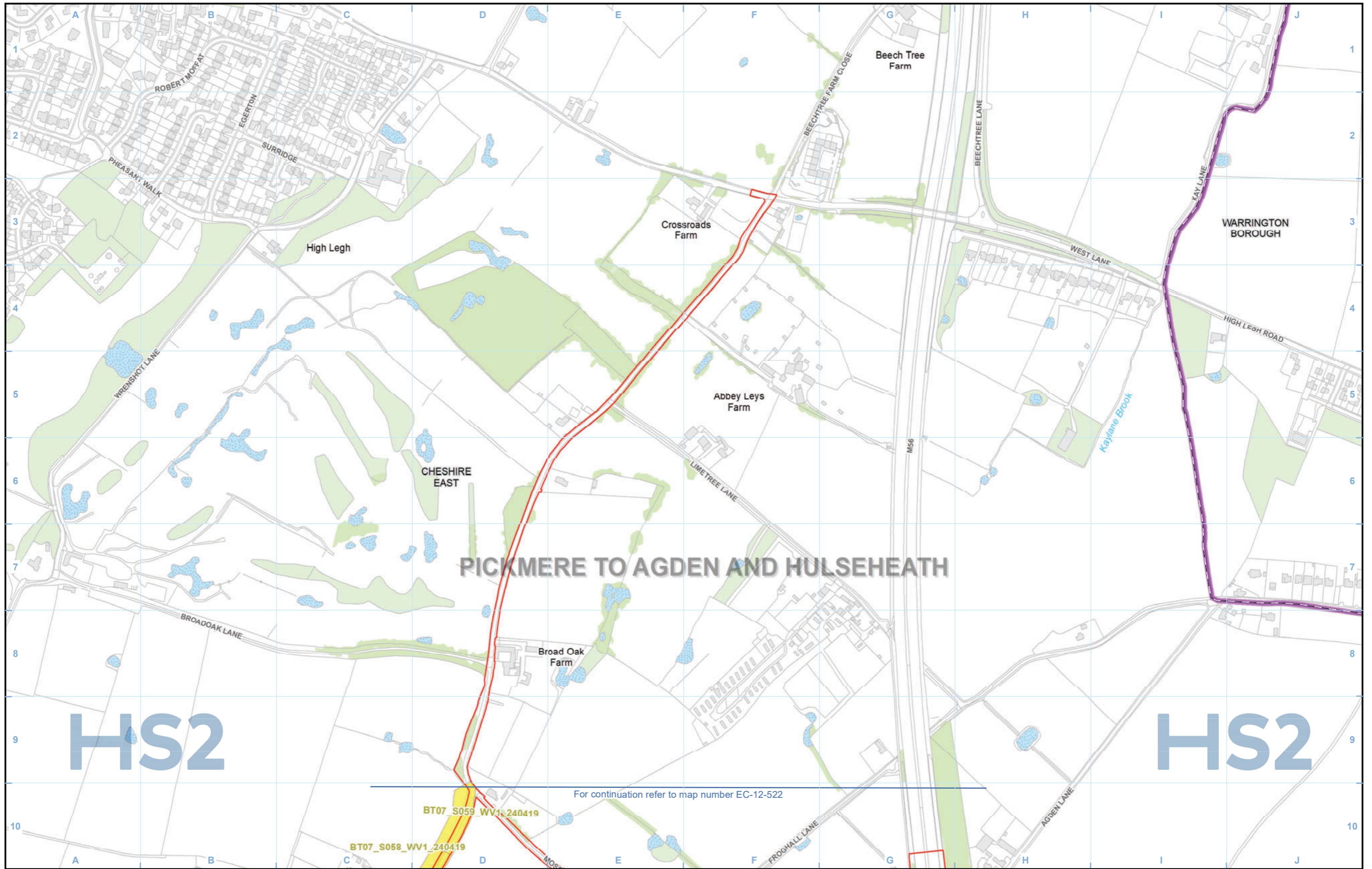
Map Number	EC-12-522
Map Name	Other Protected and Notable Species (2)
	Community Area MA03: Pickmere to Agden and Hulseheath

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Date: 09/09/21



# HS2

# HS2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number **EC-12-522-L1**

Map Name **Other Protected and Notable Species (2)**

Community Area MA03:  
Pickmere to Agden and Hulseheath

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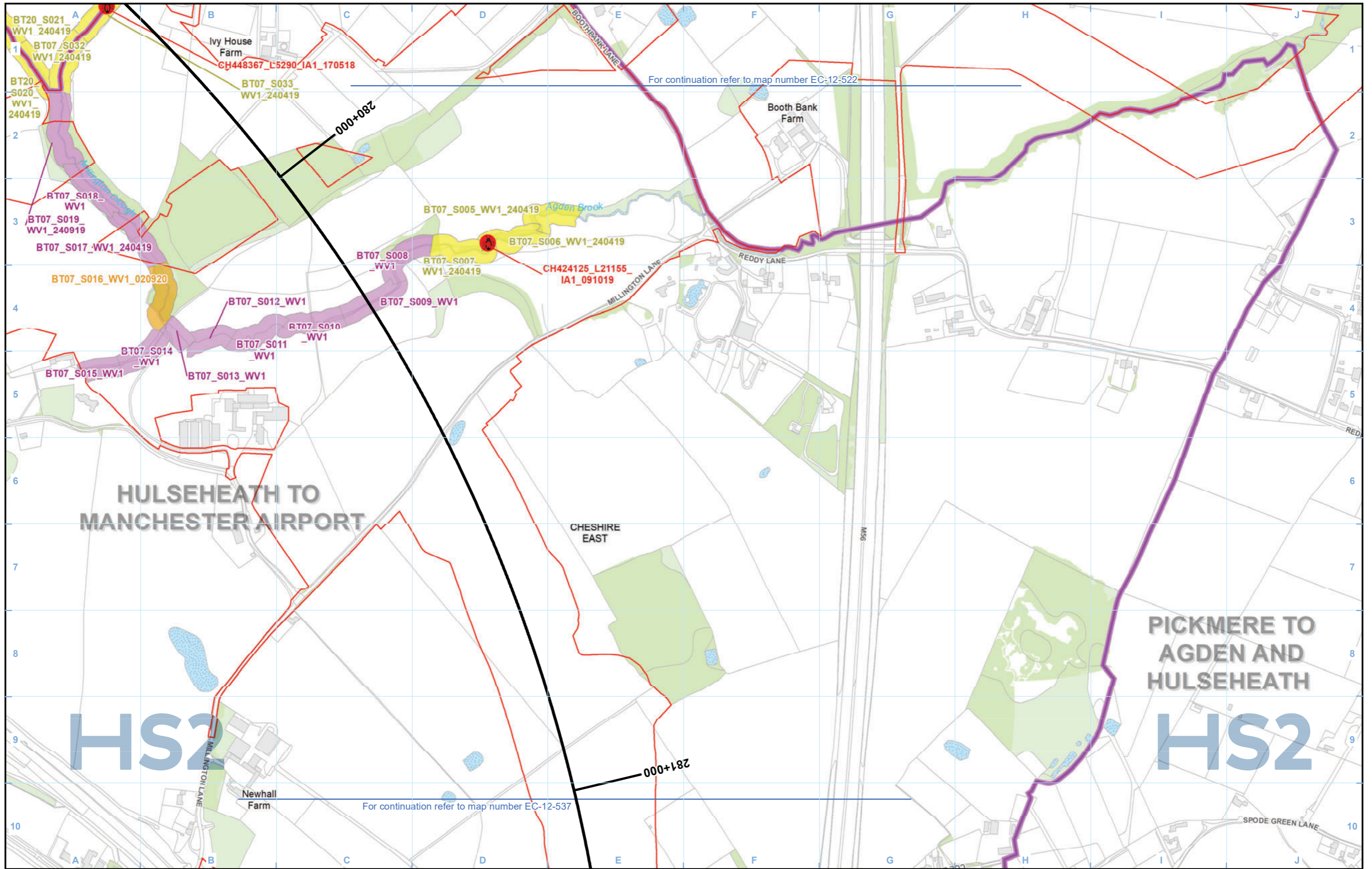
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Date: 09/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-522-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA03: Pickmere to Agden and Hulseheath

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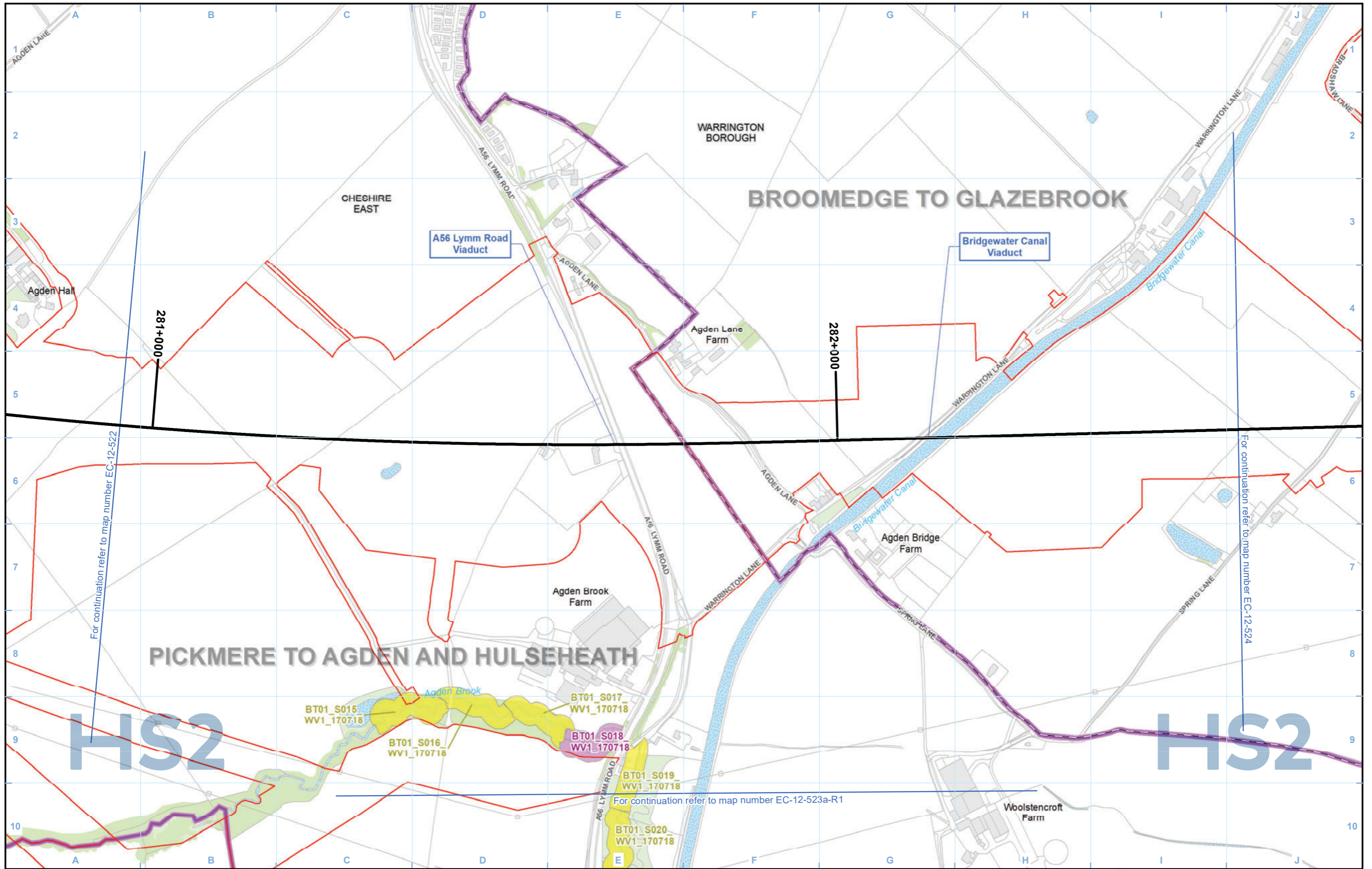
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Scale at A3: 1:5,000

Metres

Date: 09/09/21





Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Aquatic invertebrate survey location
	Community area boundary		Water vole survey undertaken - presence confirmed
	County boundary		Water vole survey undertaken - assumed absent
	District/Borough boundary		Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-523a
Map Name	Other Protected and Notable Species (2)
	Community Area MA03: Pickmere to Agden and Hulseheath

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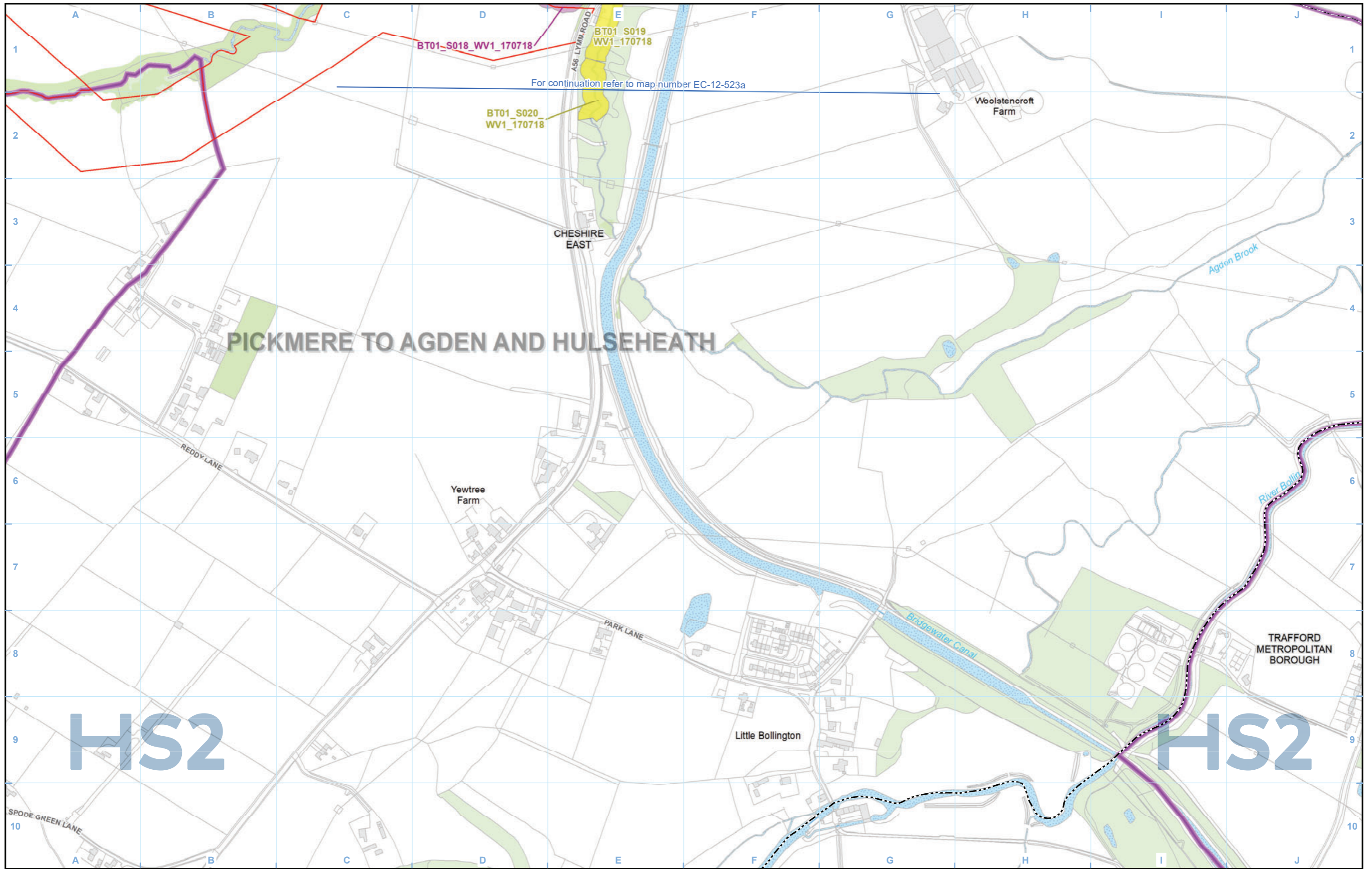
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Date: 09/09/21

Scale at A3: 1:5,000

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Metres

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PICKMERE TO AGDEN AND HULSEHEATH

HS2

HS2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number: EC-12-523a-R1

Map Name: Other Protected and Notable Species (2)

Community Area MA03:  
Pickmere to Agden and Hulseheath

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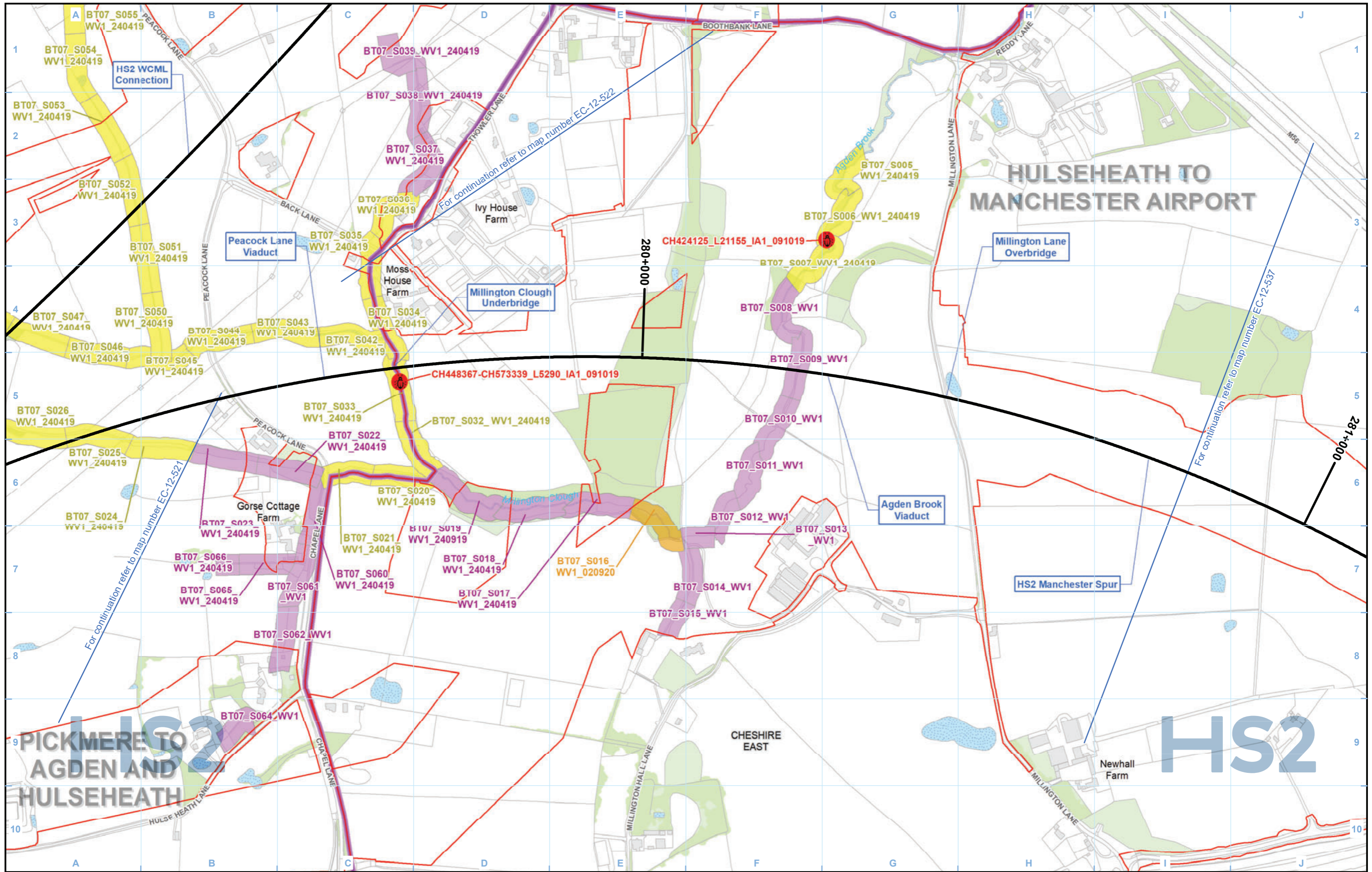
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Date: 09/09/21

Scale at A3: 1:5,000

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For continuation refer to map number EC-12-523a



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>	<ul style="list-style-type: none"> <li><b>Water vole:</b></li> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number: EC-12-536a

Map Name: Other Protected and Notable Species (2)

Community Area MA03:  
Pickmere to Agden and Hulseheath

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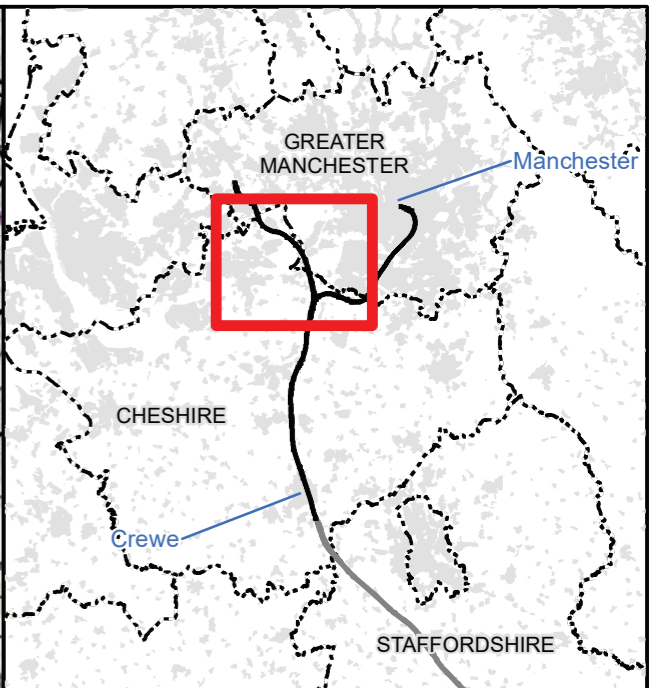
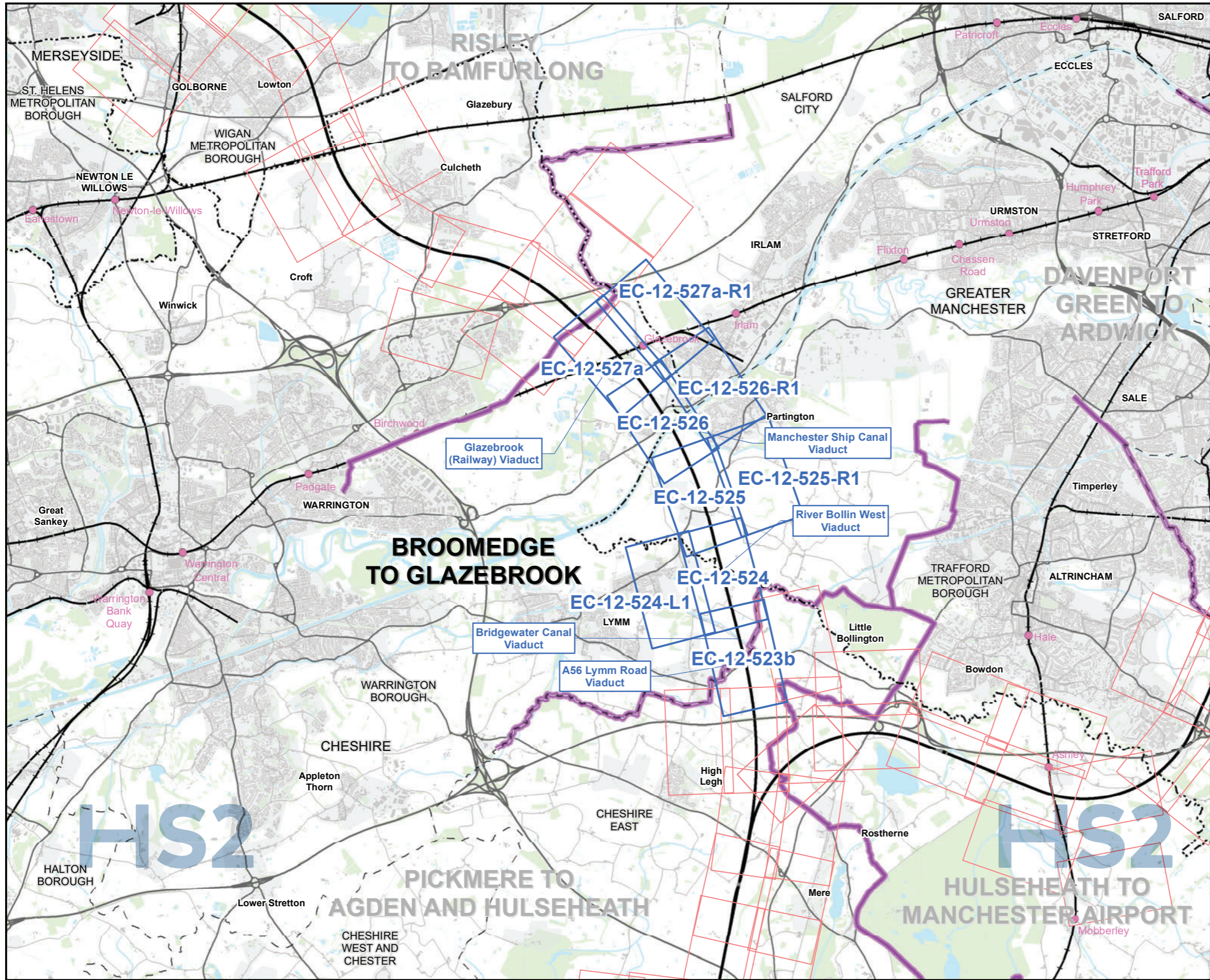
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001551-P01

Date: 09/09/21

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**Map Series Information:**  
 This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-12-INDEX-MA04
Map Name	Index Map of: Other Protected and Notable Species (2)
	Community Area MA04: Broomedge to Glazebrook

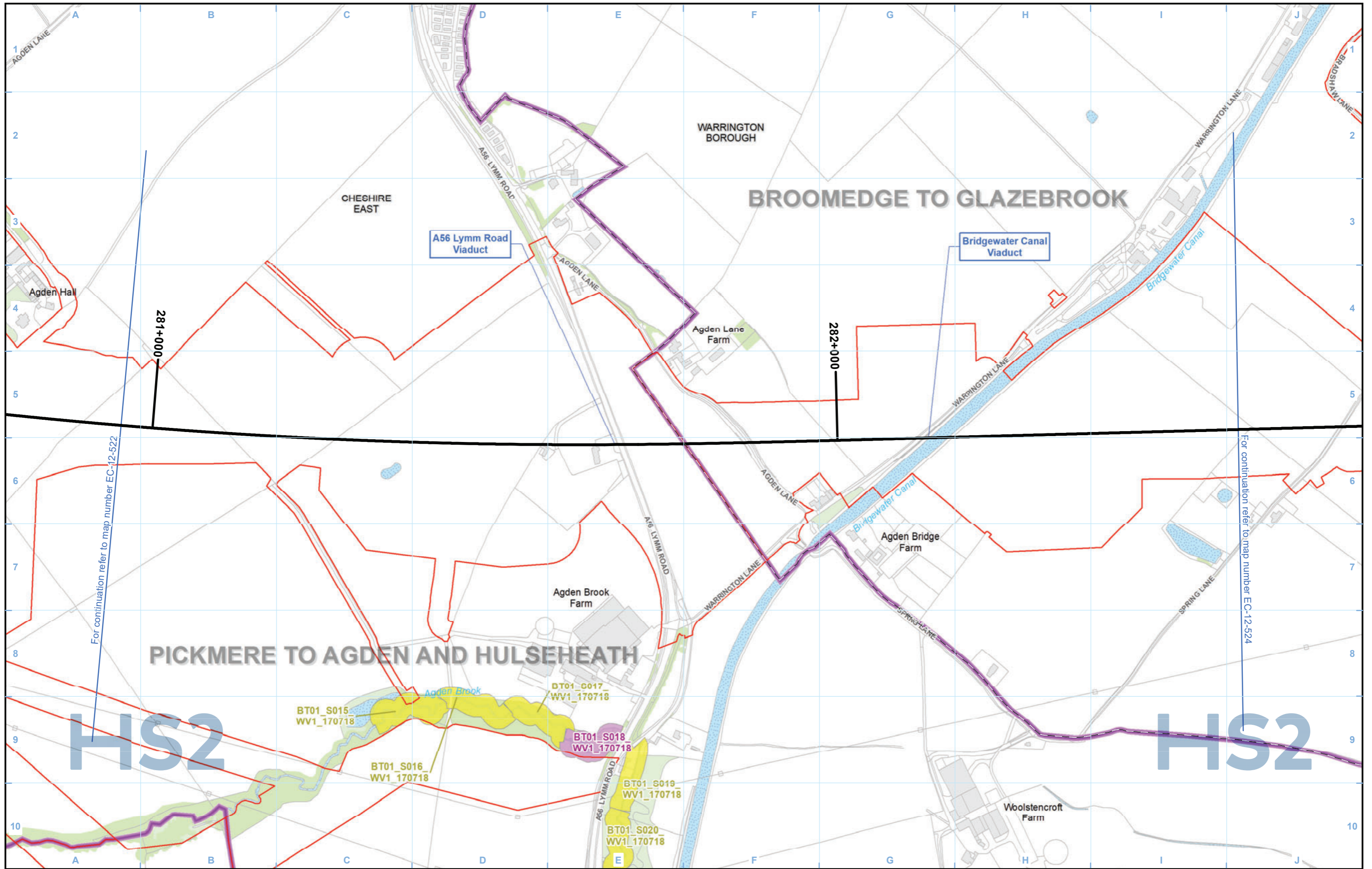
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**Legend**

Route in tunnel	Watercourse	<b>Water vole:</b>
Route on surface	Water body	Water vole survey undertaken - presence confirmed
Depot, station, headhouse or portal building	Woodland (verified by survey)	Water vole survey undertaken - assumed absent
Land potentially required during construction	<b>Aquatic invertebrate:</b>	Watercourse potentially suitable for water vole - no or limited access for survey
Community area boundary	Aquatic invertebrate survey location	
County boundary		
District/Borough boundary		

Map Number: EC-12-523b

Map Name: Other Protected and Notable Species (2)

Community Area MA04:  
Broomedge to Glazebrook

**HS2**

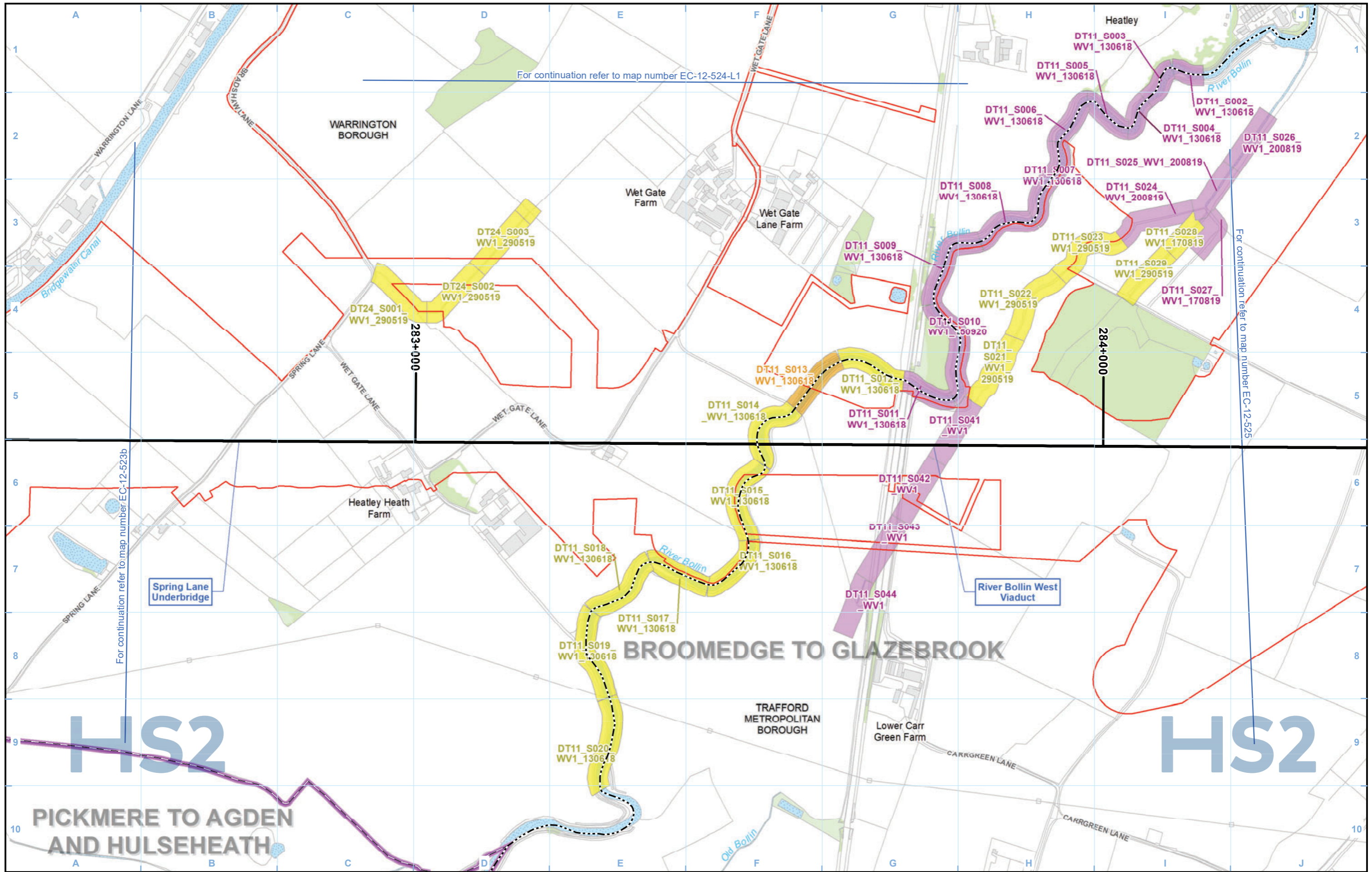
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001537-P01

Date: 09/09/21



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Aquatic invertebrate survey location</li> </ul>	<p><b>Water vole:</b></p> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number: EC-12-524

Map Name: Other Protected and Notable Species (2)

Community Area MA04: Broomedge to Glazebrook

**HS2**

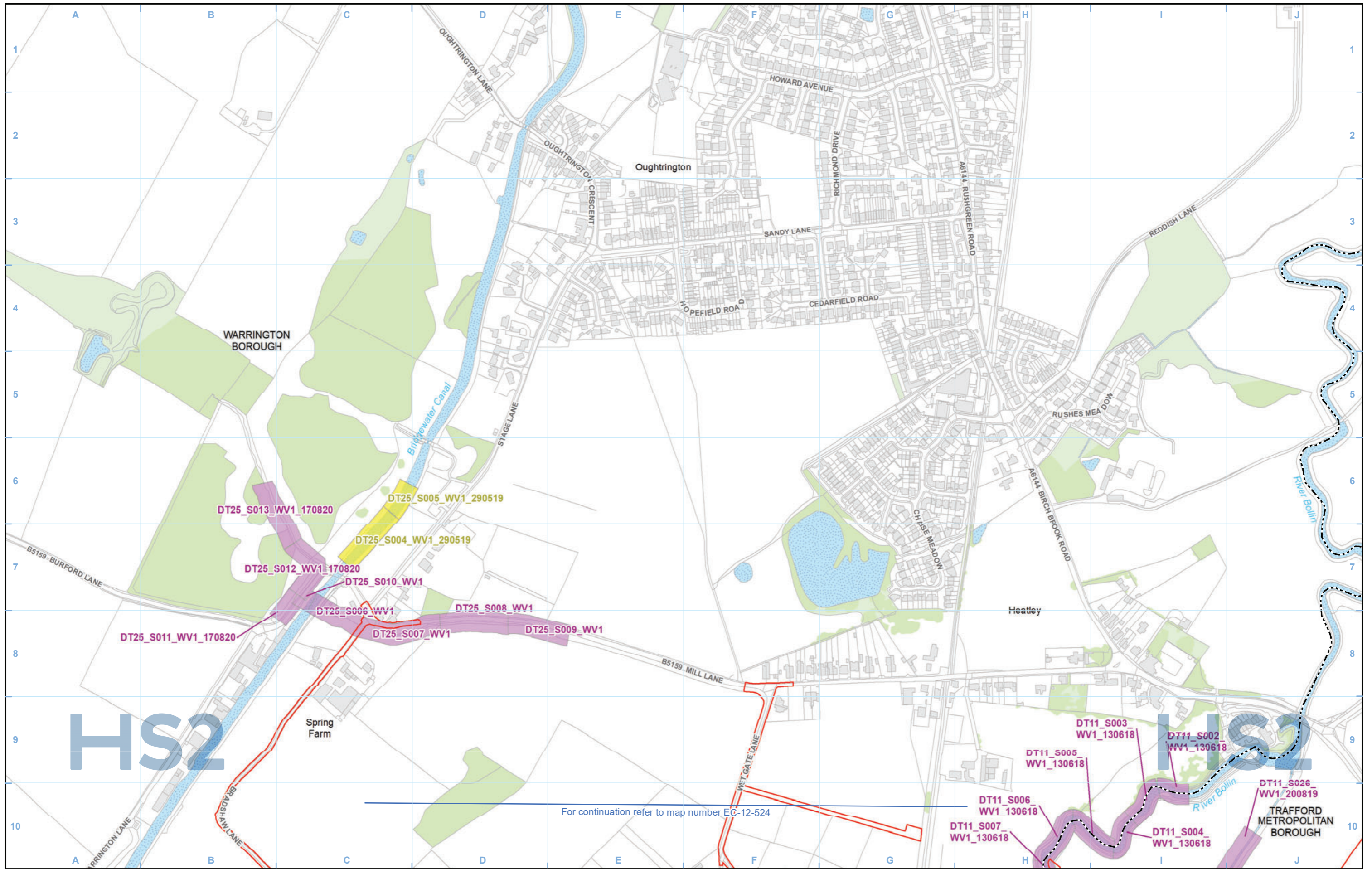
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001538-P01

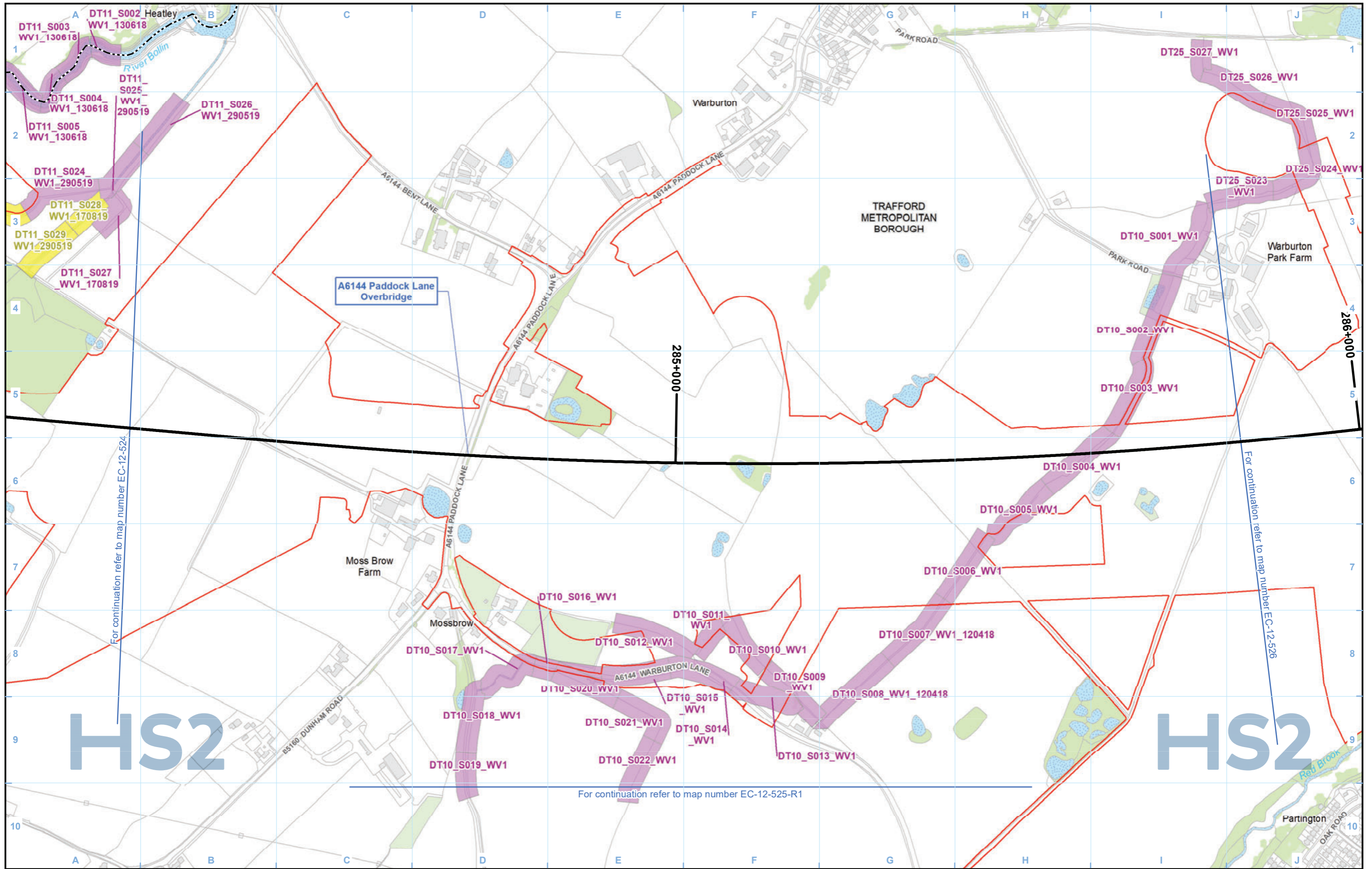
Date: 09/09/21



For continuation refer to map number EC-12-524

<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Route in tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> <li>District/Borough boundary</li> <li>Watercourse</li> <li>Water body</li> <li>Woodland (verified by survey)</li> <li>Aquatic invertebrate survey location</li> </ul>	<p><b>Water vole:</b></p> <ul style="list-style-type: none"> <li>Water vole survey undertaken - presence confirmed</li> <li>Water vole survey undertaken - assumed absent</li> <li>Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	<p>Map Number: EC-12-524-L1</p> <p>Map Name: Other Protected and Notable Species (2)</p> <p>Community Area MA04: Broomedgate to Glazebrook</p>	<p><b>HS2</b></p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-003488-P01</p>	<p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 Metres</p> <p>Date: 09/09/21</p>
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**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Aquatic invertebrate survey location</li> </ul>	<p><b>Water vole:</b></p> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number: EC-12-525

Map Name: Other Protected and Notable Species (2)

Community Area MA04: Broomedged to Glazebrook

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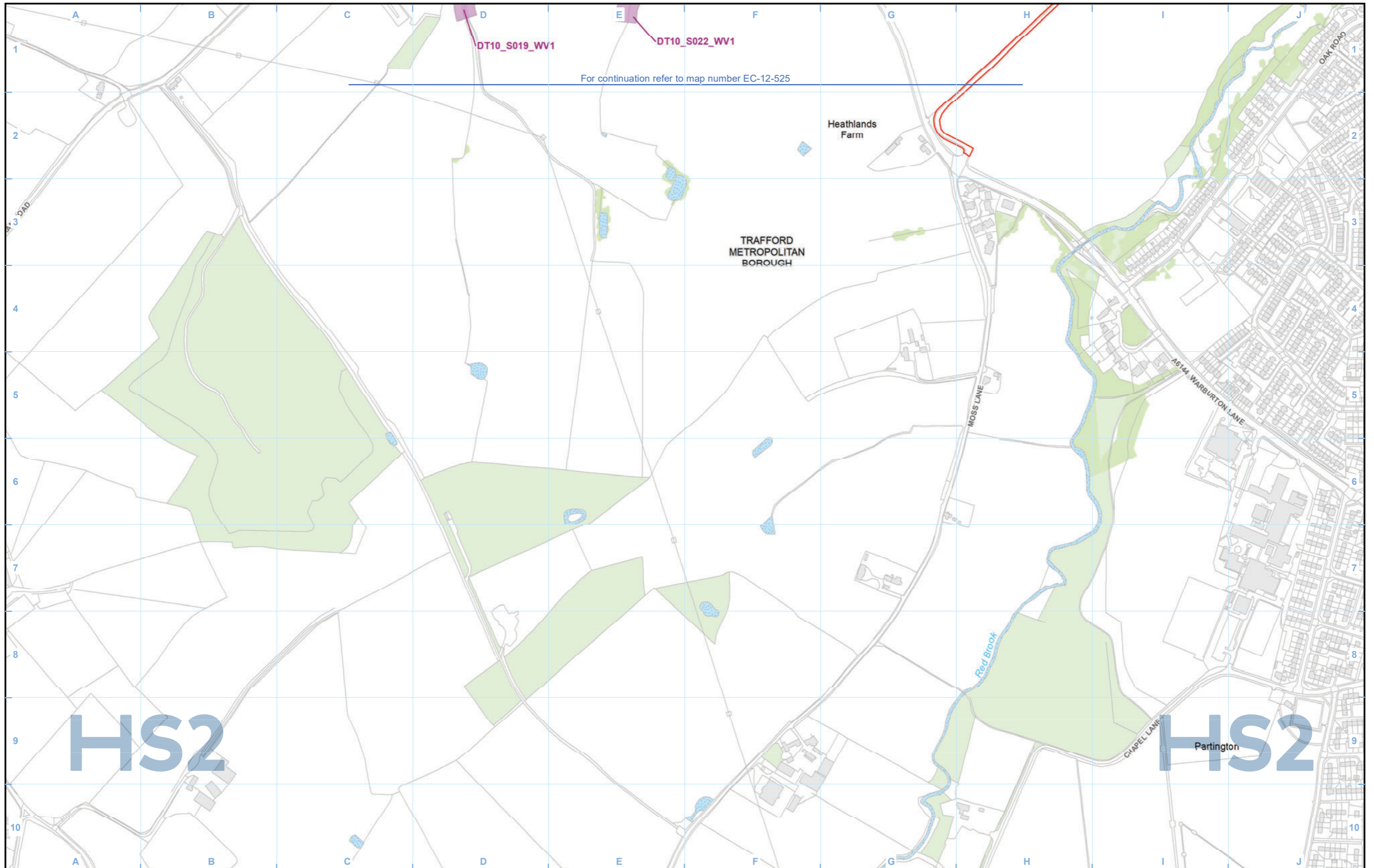
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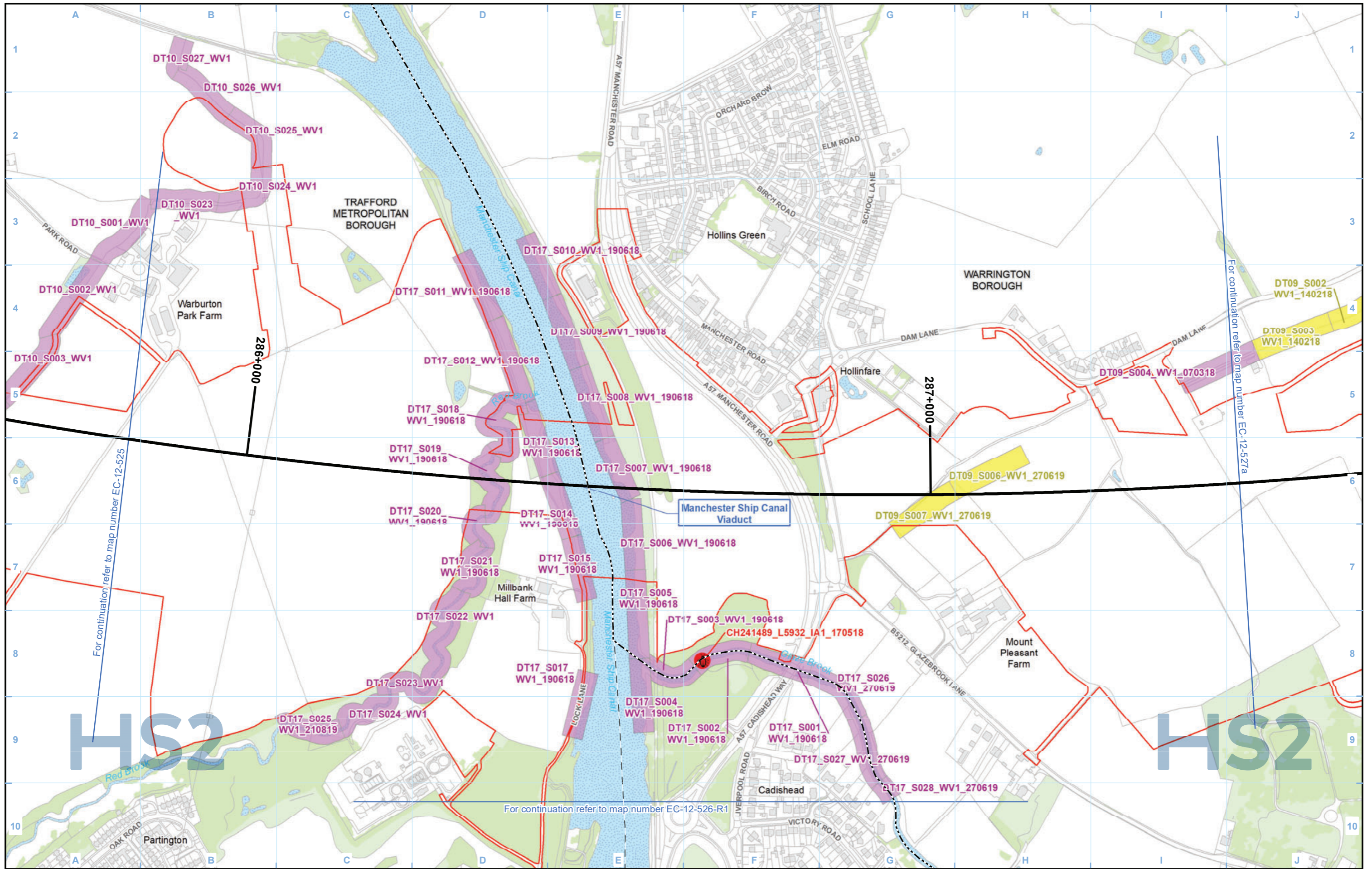
For continuation refer to map number EC-12-525

# HS2

# HS2

Partington

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-525-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA04:</b> Broomedge to Glazebrook		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003489-P01	
				<b>Date:</b> 09/09/21	



For continuation refer to map number EC-12-525

For continuation refer to map number EC-12-527a

For continuation refer to map number EC-12-526-R1

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-526
Map Name	Other Protected and Notable Species (2)
	Community Area MA04: Broomedged to Glazebrook

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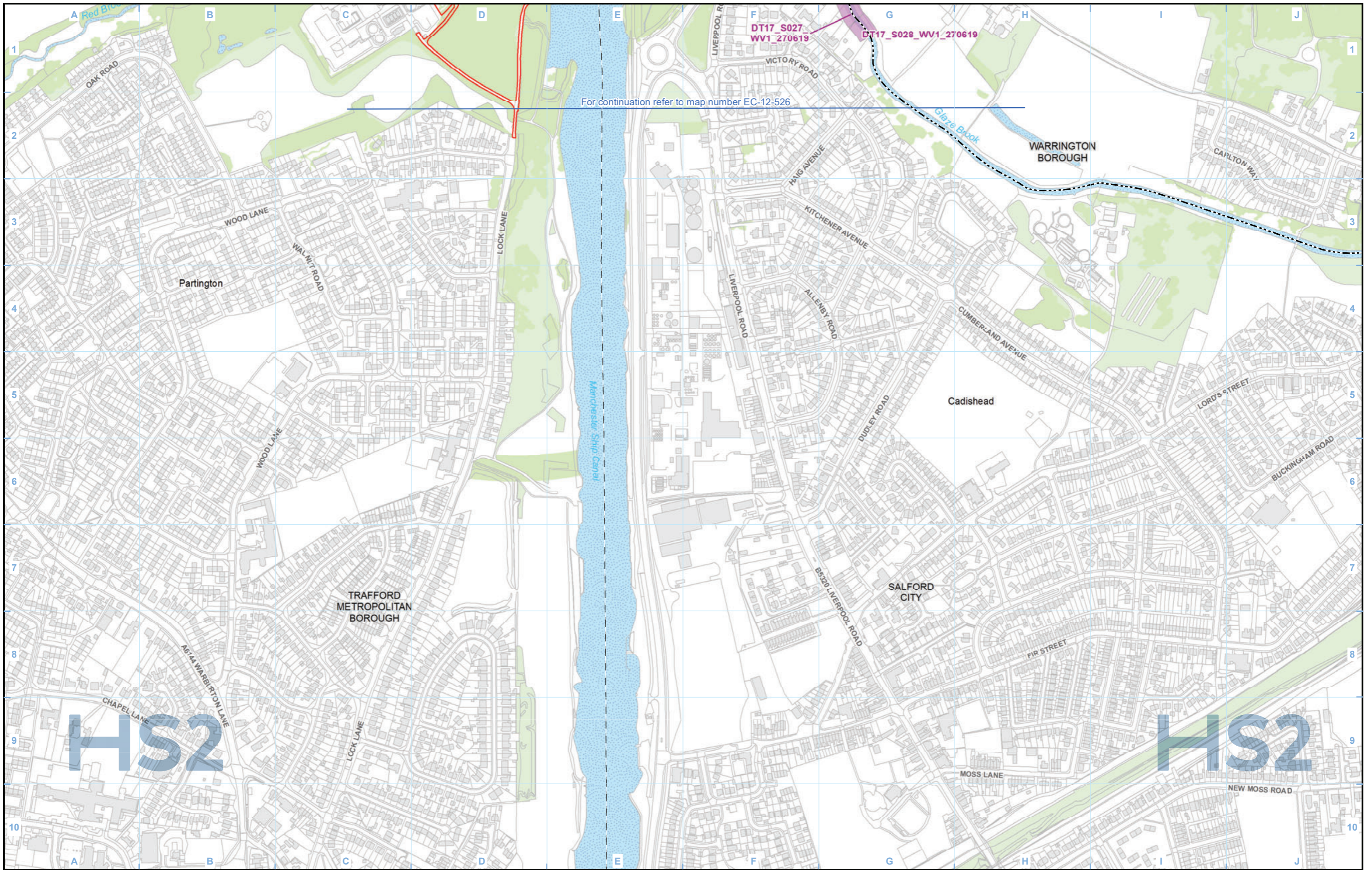
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Metres

Date: 09/09/21



For continuation refer to map number EC-12-526

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Water body
  - Woodland (verified by survey)
  - Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number **EC-12-526-R1**

Map Name **Other Protected and Notable Species (2)**

Community Area MA04:  
Broomedged to Glazebrook

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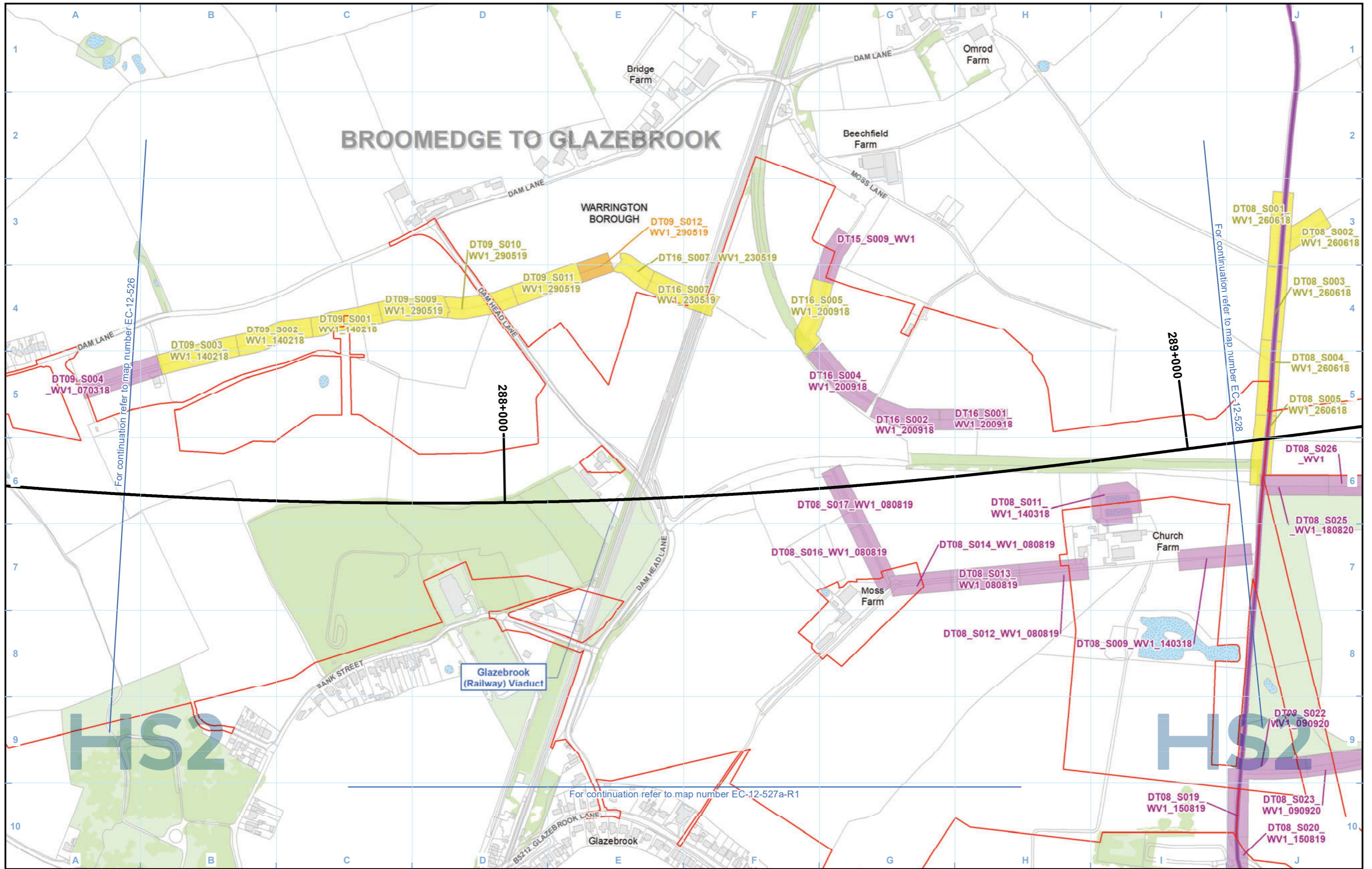
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Scale at A3: 1:5,000

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Metres

Date: 09/09/21



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>	<ul style="list-style-type: none"> <li><b>Water vole:</b></li> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number	EC-12-527a
Map Name	Other Protected and Notable Species (2)
Community Area MA04: Broomedge to Glazebrook	

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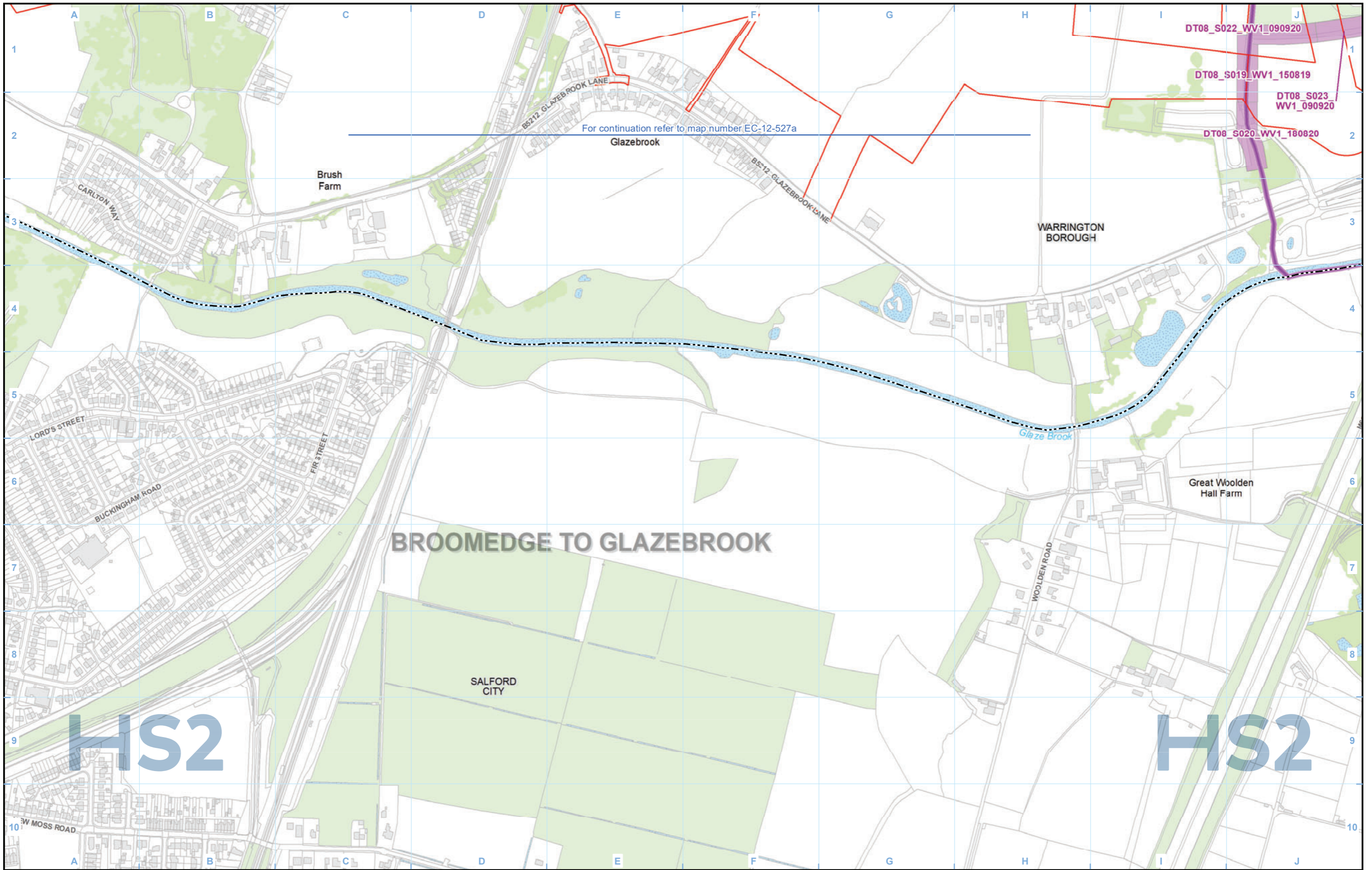
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001541-P01

Scale at A3: 1:5,000

Date: 09/09/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-527a-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA04: Broomedge to Glazebrook

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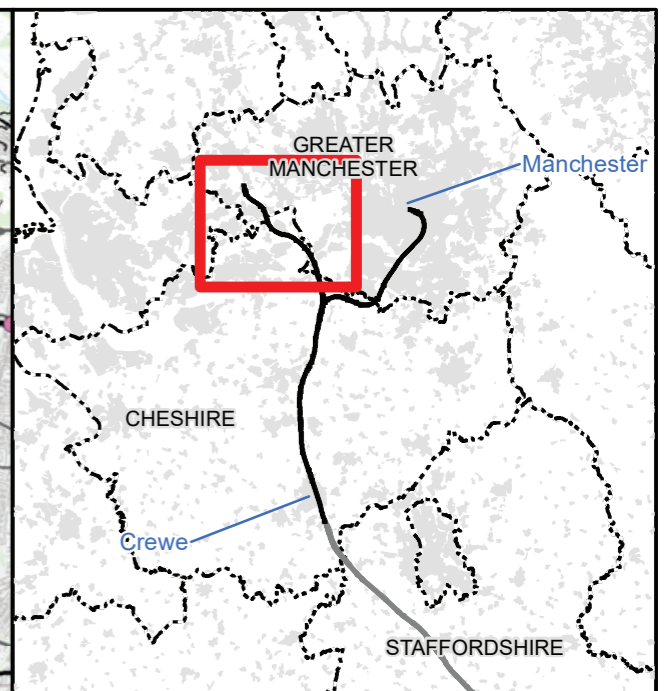
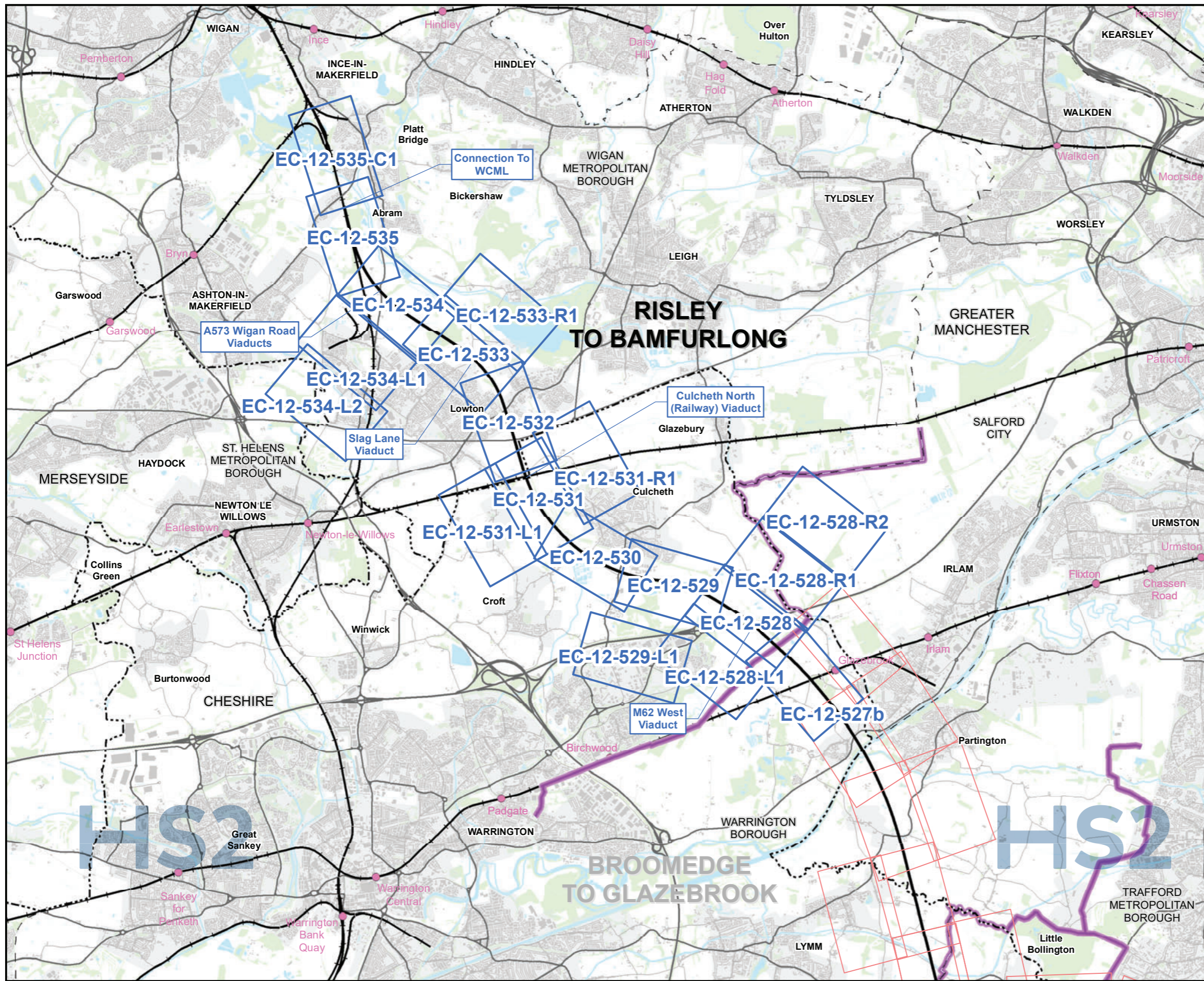
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003491-P01

Scale at A3: 1:5,000

Metres

Date: 09/09/21



**Map Series Information:**

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number EC-12-INDEX-MA05

Map Name Index Map of:  
Other Protected and Notable Species (2)

Community Area MA05:  
Risley to Bamfurlong

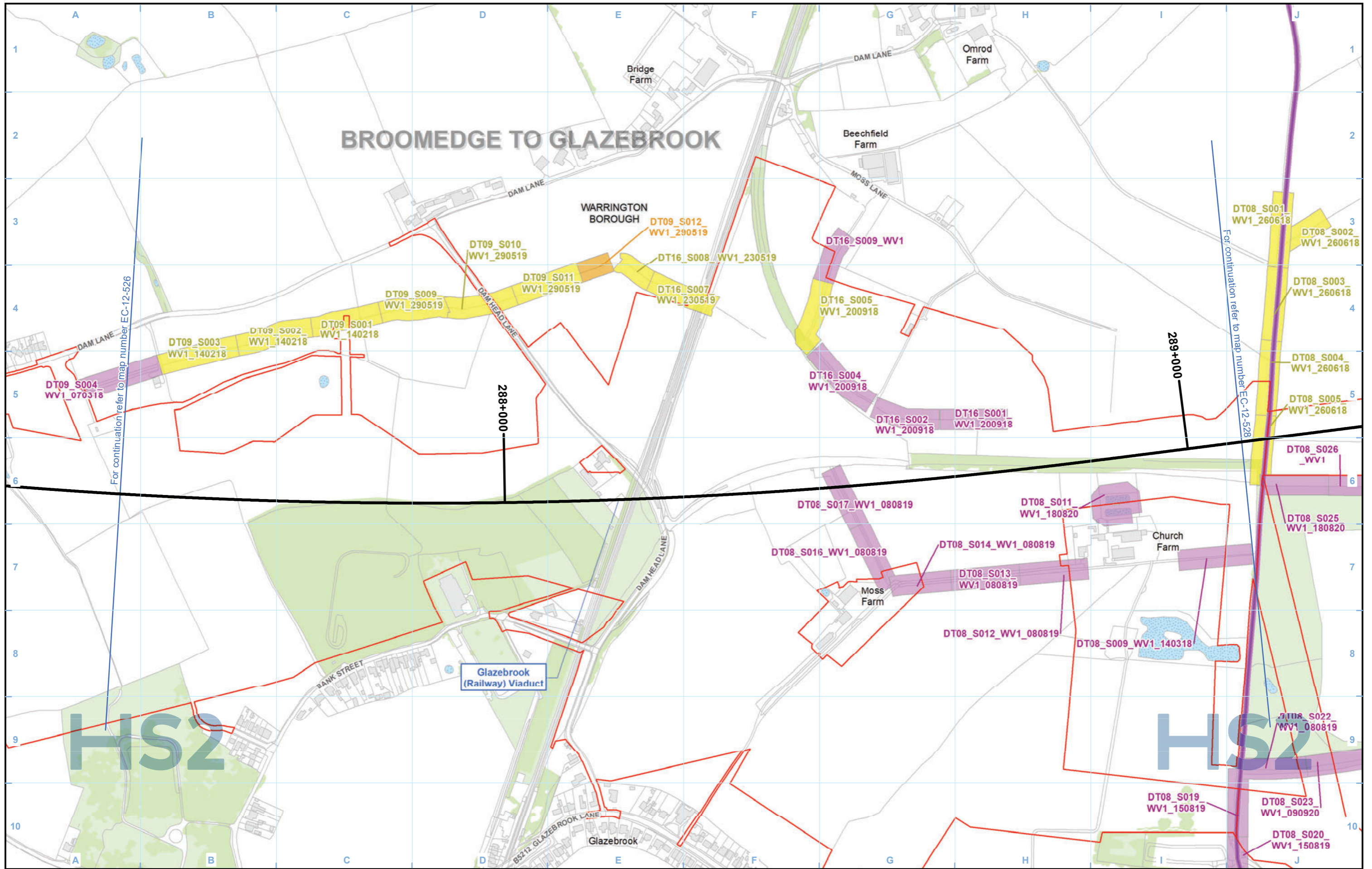
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001589-P01 Date: 09/09/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-527b
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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Scale at A3: 1:5,000

Metres

Date: 09/09/21



# BROOMEDGE TO GLAZEBROOK

For continuation refer to map number EC-12-528-L1

WARRINGTON BOROUGH

# RISLEY TO BAMFURLONG

For continuation refer to map number EC-12-528-R1

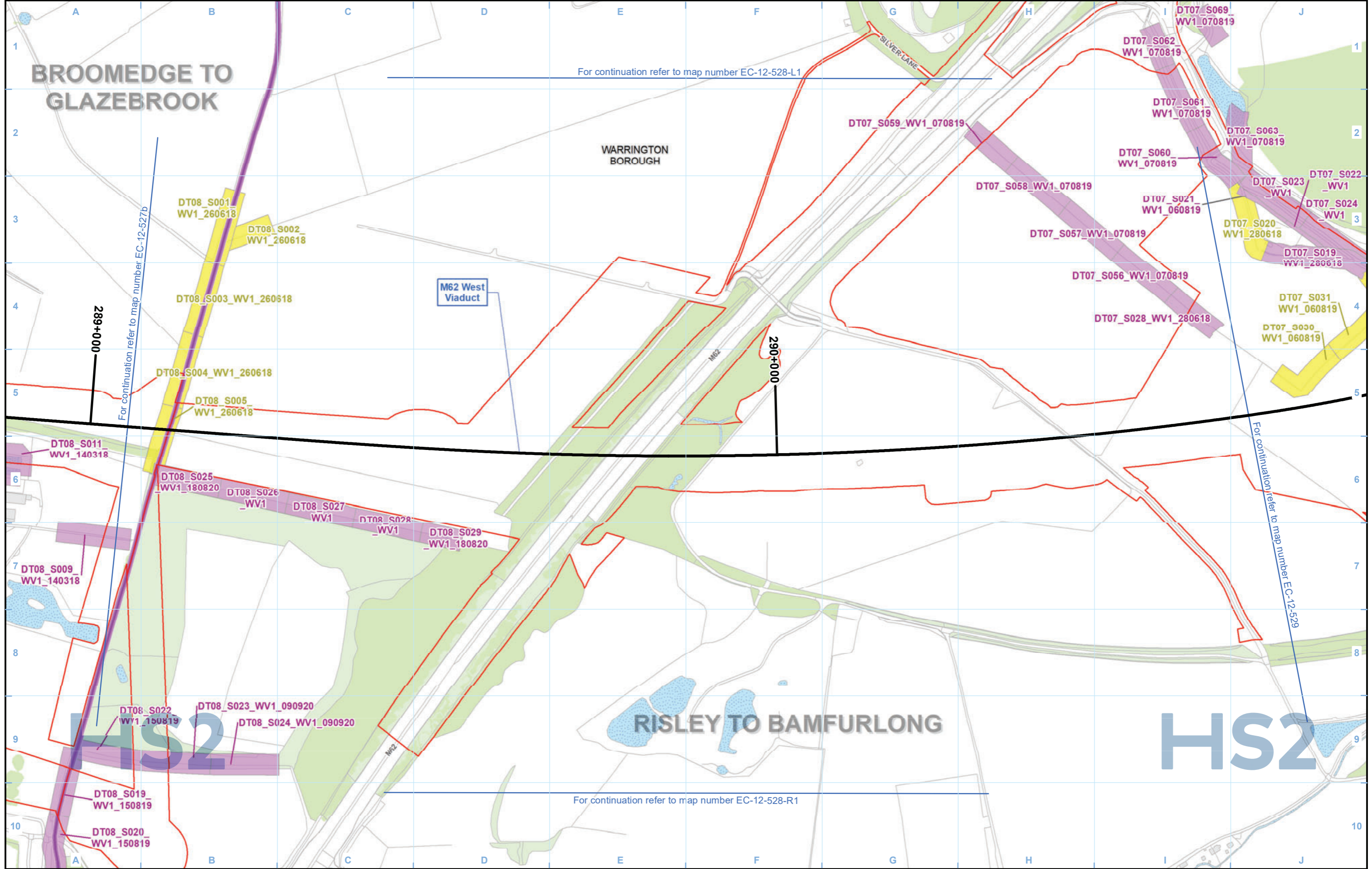
289+000

290+000

M62 West Viaduct

For continuation refer to map number EC-12-527b

For continuation refer to map number EC-12-529



**Legend**

	<b>Aquatic invertebrate:</b>	

	Water vole:
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

	Water vole:
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-528
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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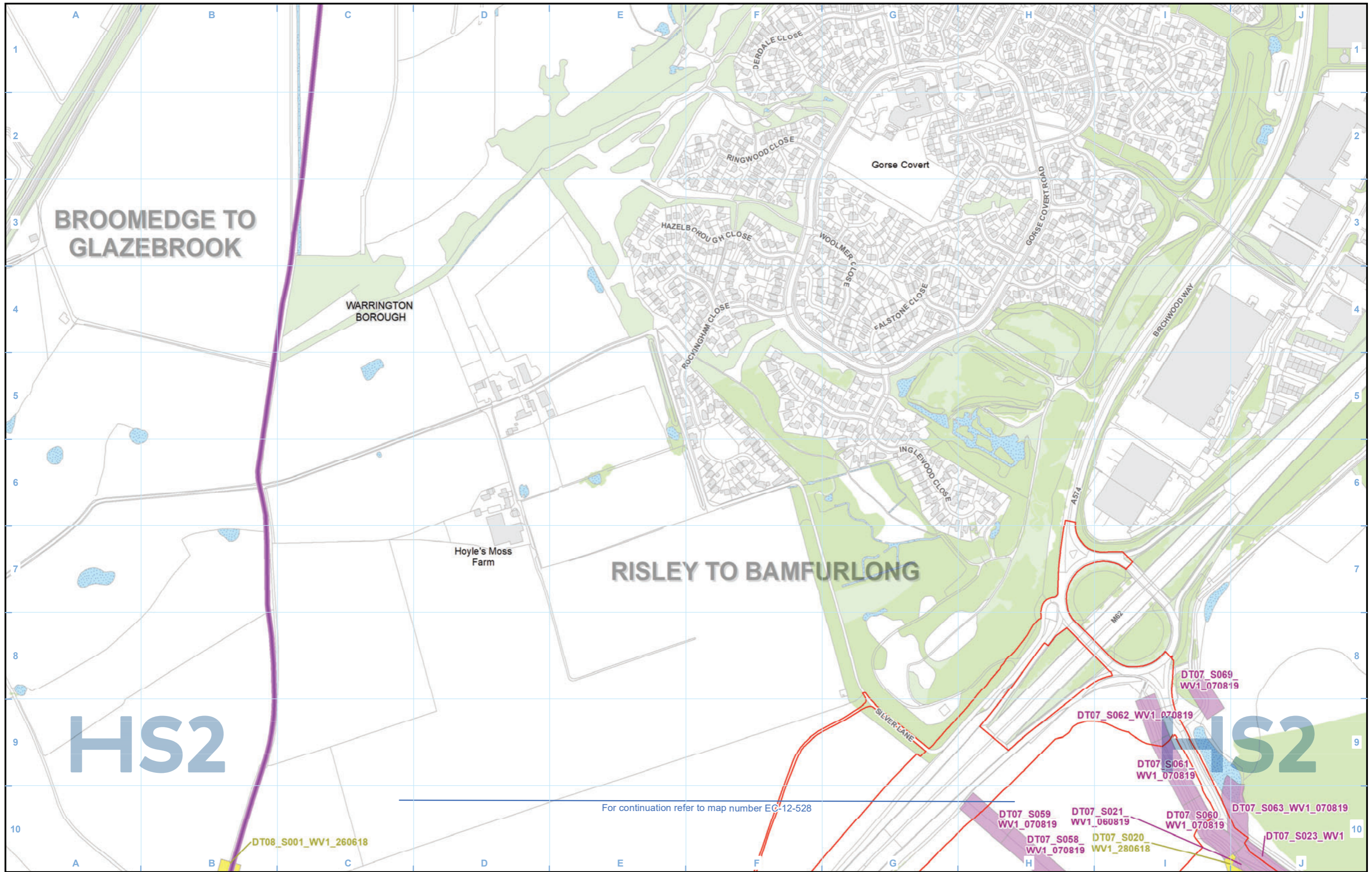
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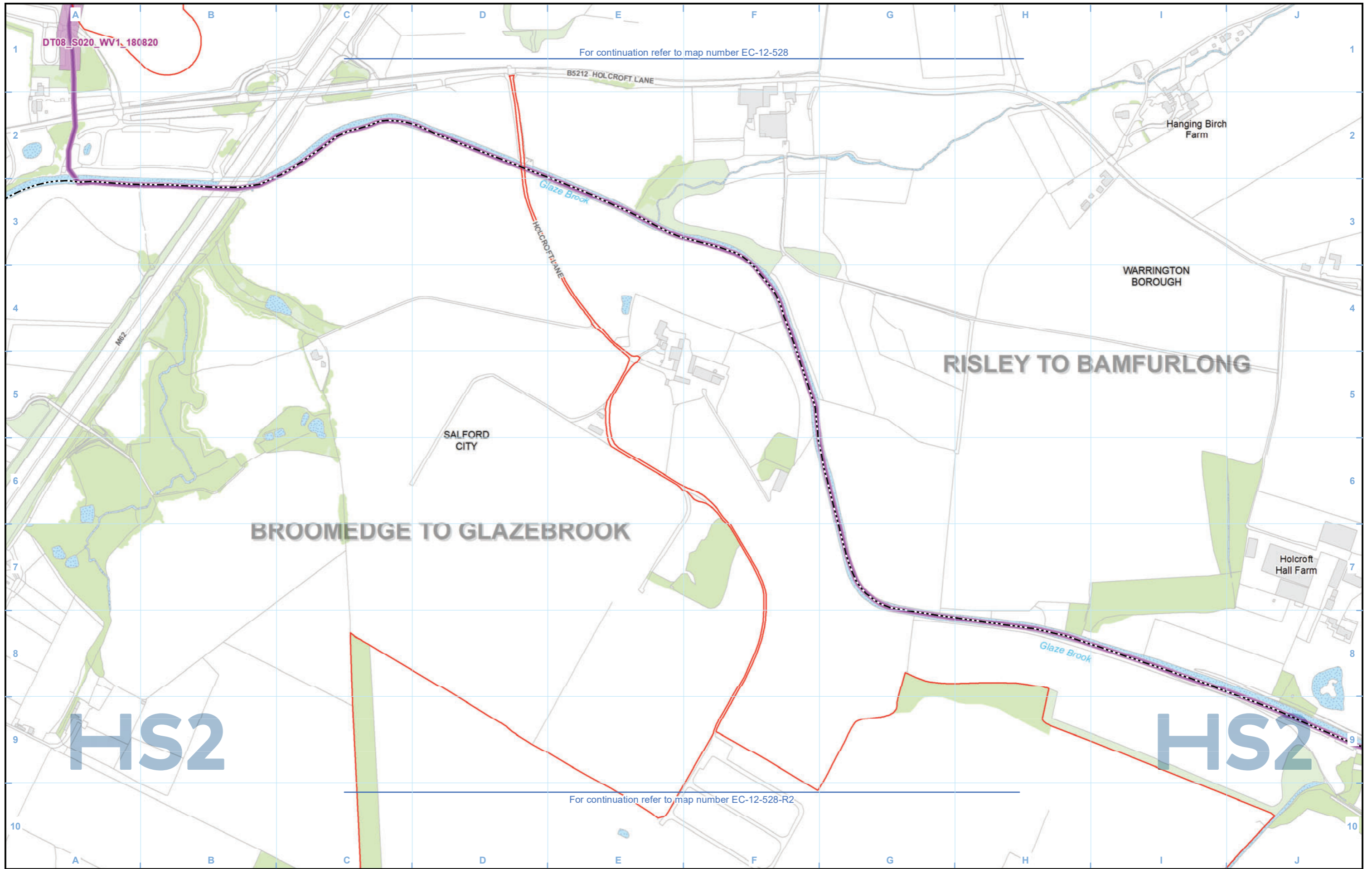
Date: 09/09/21

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For continuation refer to map number EC-12-528

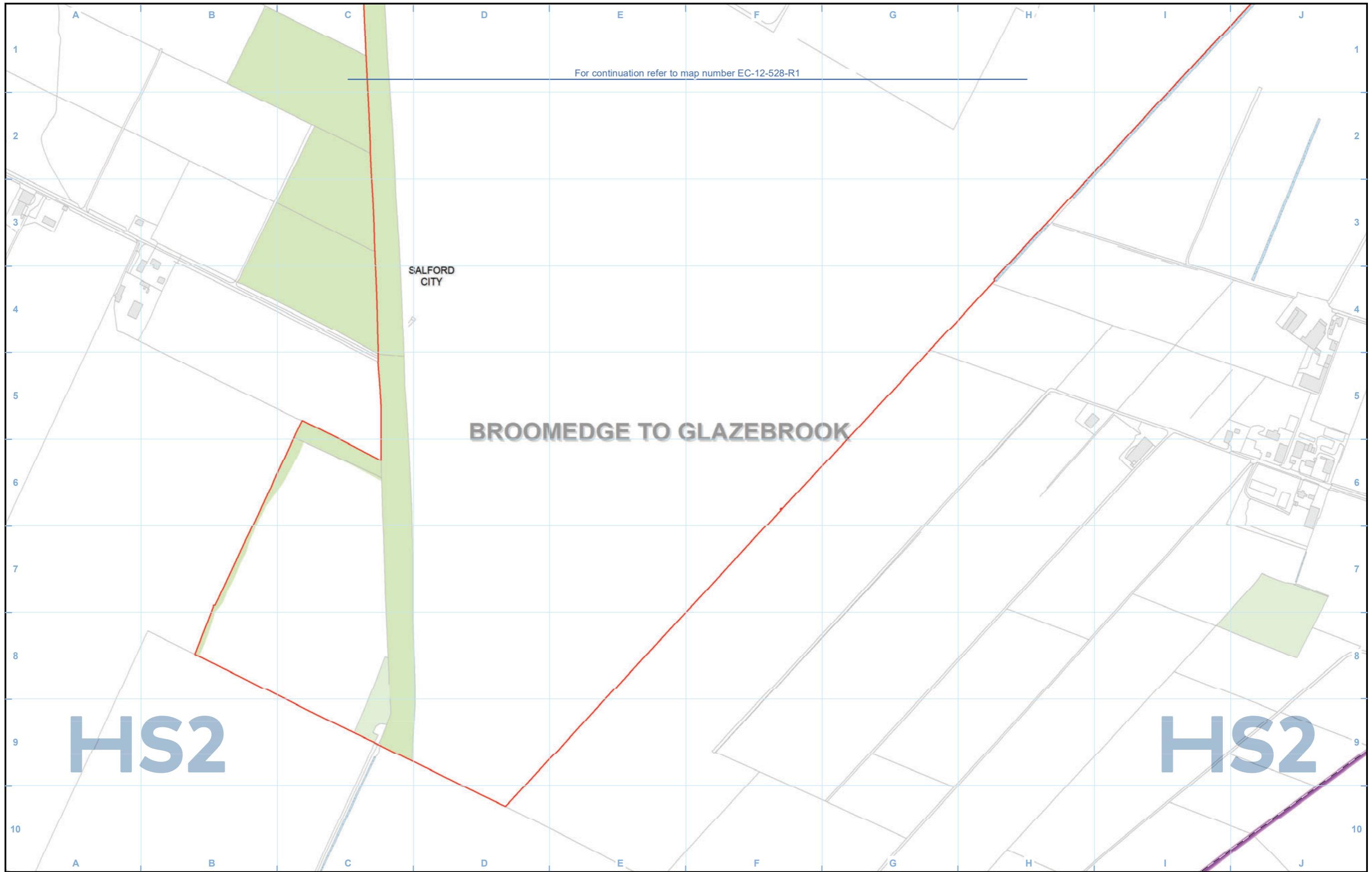
<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-528-L1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA05:</b> Risley to Bamfurlong		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003492-P01</small>	
				<b>Date: 09/09/21</b>	



For continuation refer to map number EC-12-528

For continuation refer to map number EC-12-528-R2

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-528-R1		<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p><b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003493-P01</p>		<b>Map Name</b> <b>Other Protected and Notable Species (2)</b>	
<b>Community Area MA05:</b> Risley to Bamfurlong				<b>Scale at A3: 1:5,000</b> <p>0 50 100 150 200 Metres</p> <p><b>Date:</b> 09/09/21</p>	



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-528-R2
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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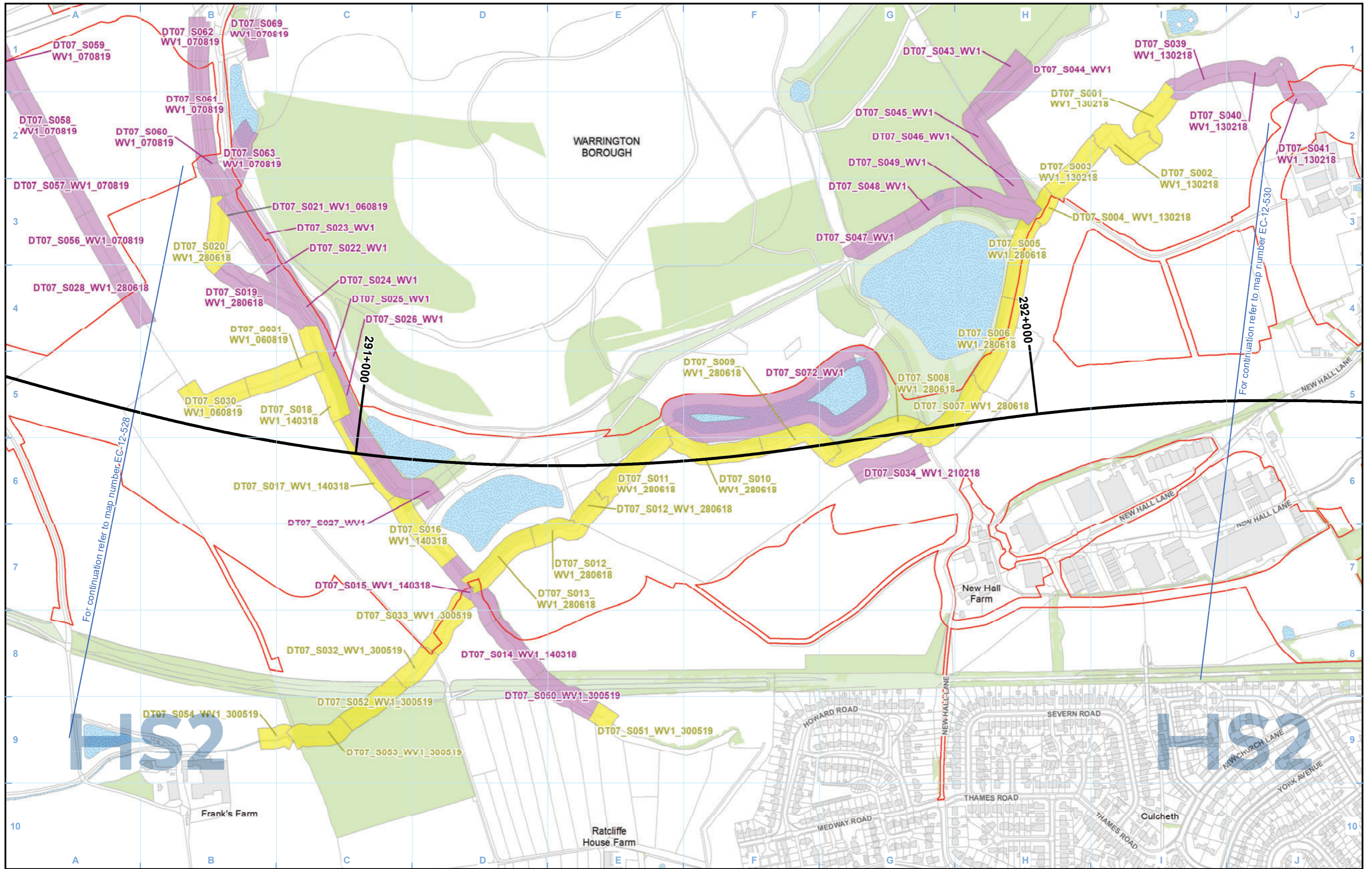
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003494-P01

Scale at A3: 1:5,000

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Date: 09/09/21



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:
- Aquatic invertebrate survey location
- Water vole:
- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

Map Number: EC-12-529

Map Name: Other Protected and Notable Species (2)

Community Area MA05: Risley to Bamfurlong

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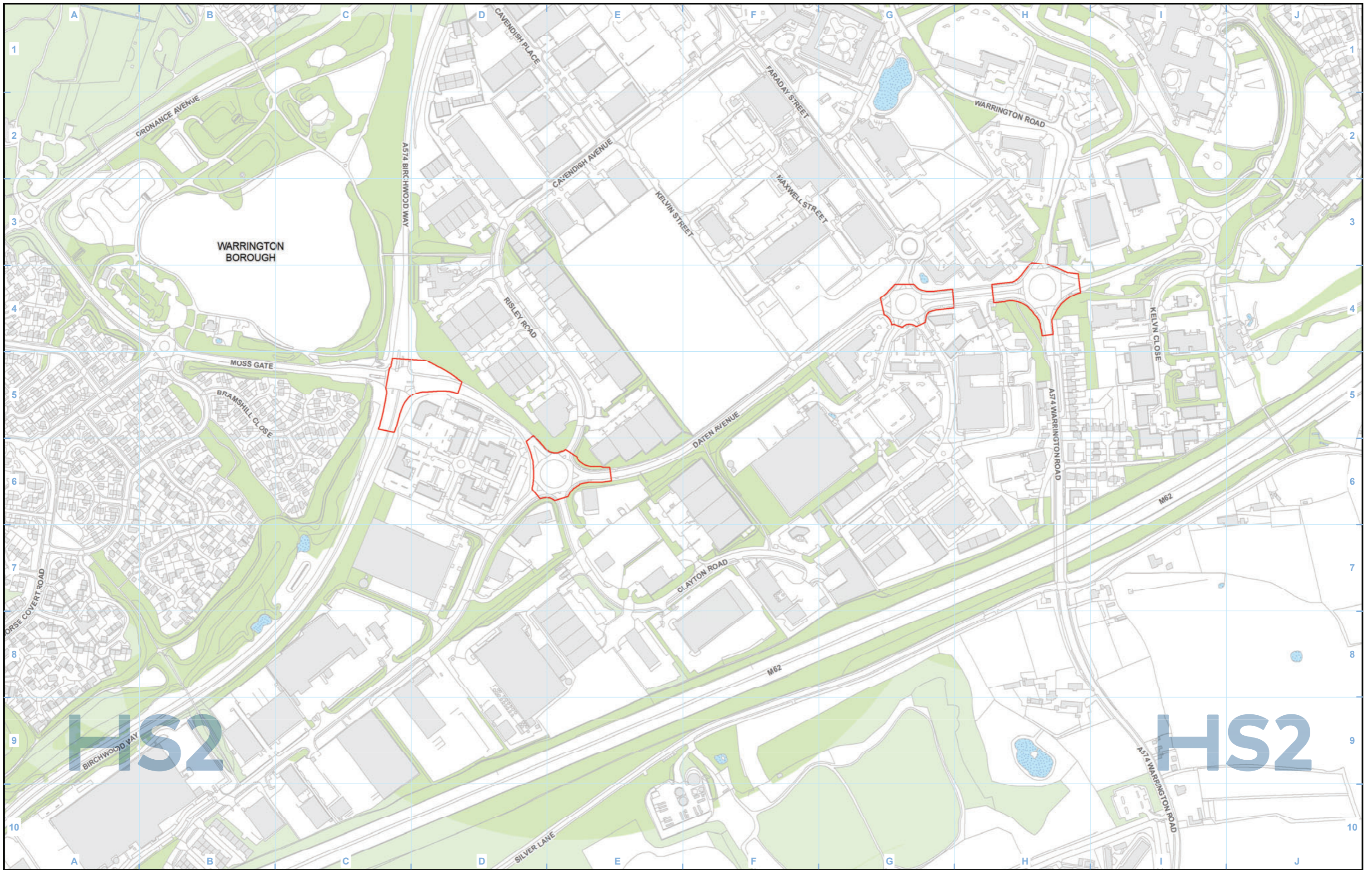
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Date: 09/09/21

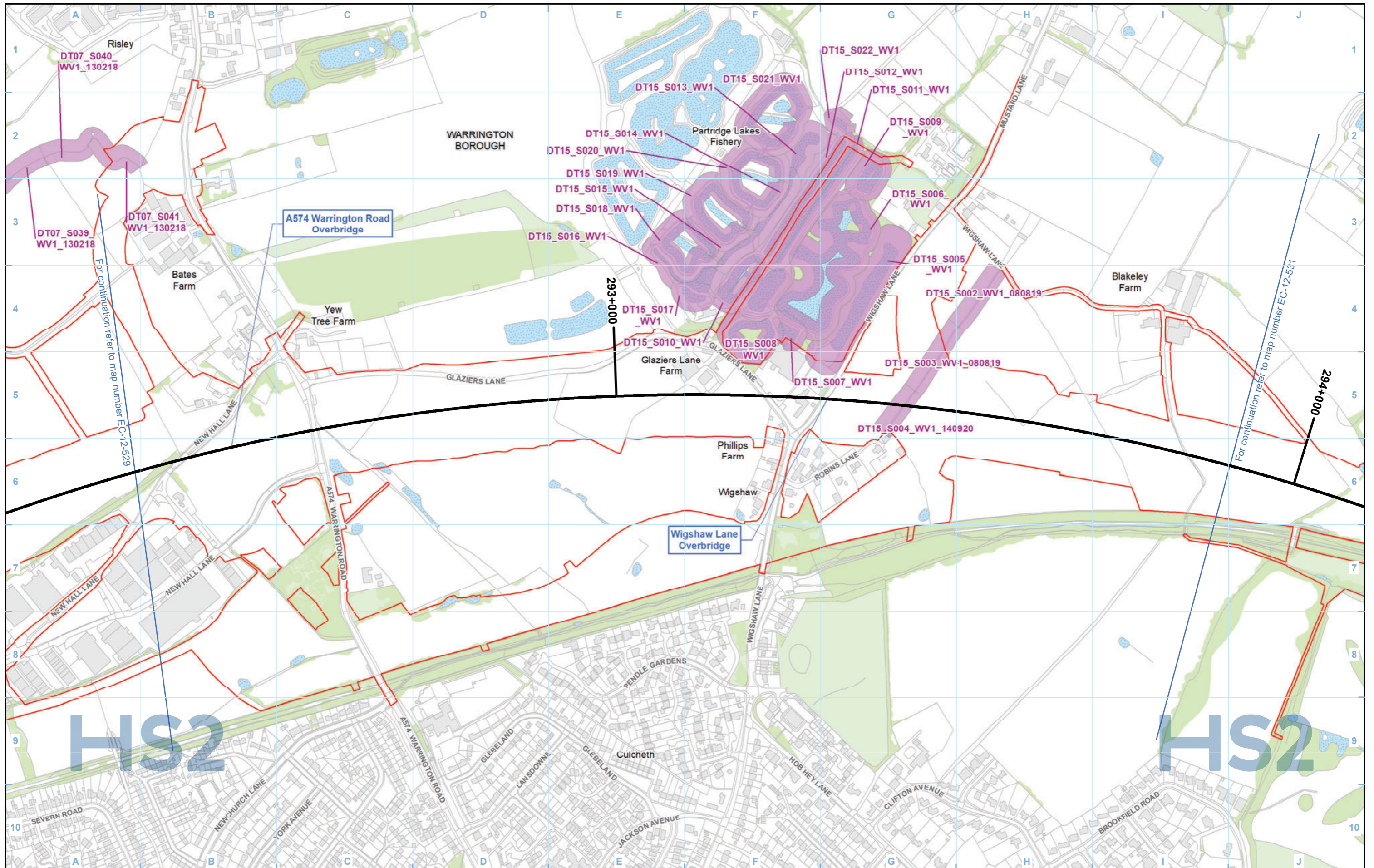
Scale at A3: 1:5,000

Metres

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<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey		Map Number <b>EC-12-529-L1</b>	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p>
Map Name <b>Other Protected and Notable Species (2)</b>		Scale at A3: 1:5,000 		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190 Doc Number: 2DE01-MWJ-EV-MAP-M000-003495-P01		Date: 09/09/21	



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-530
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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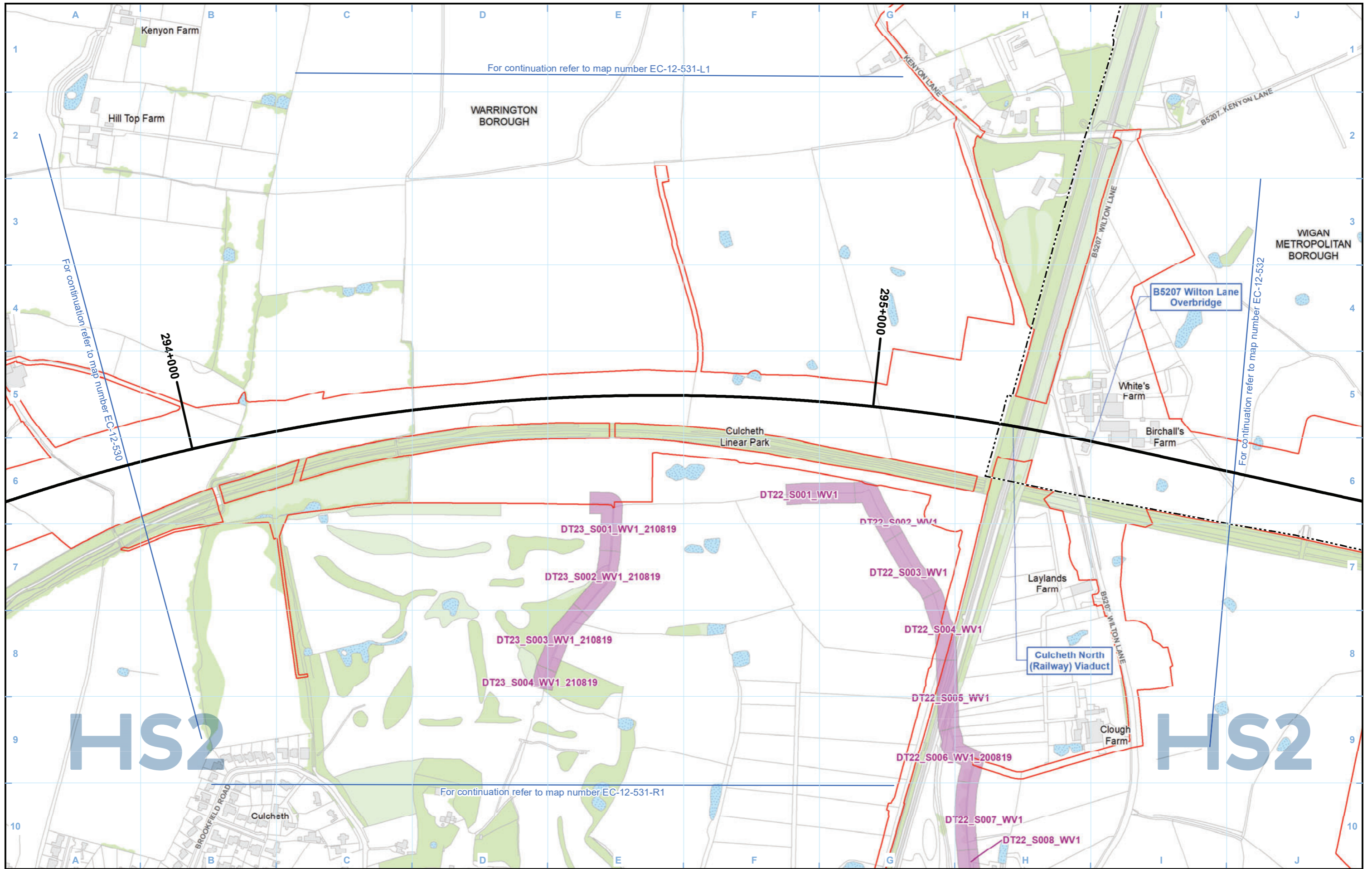
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001545-P01

Date: 09/09/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-531
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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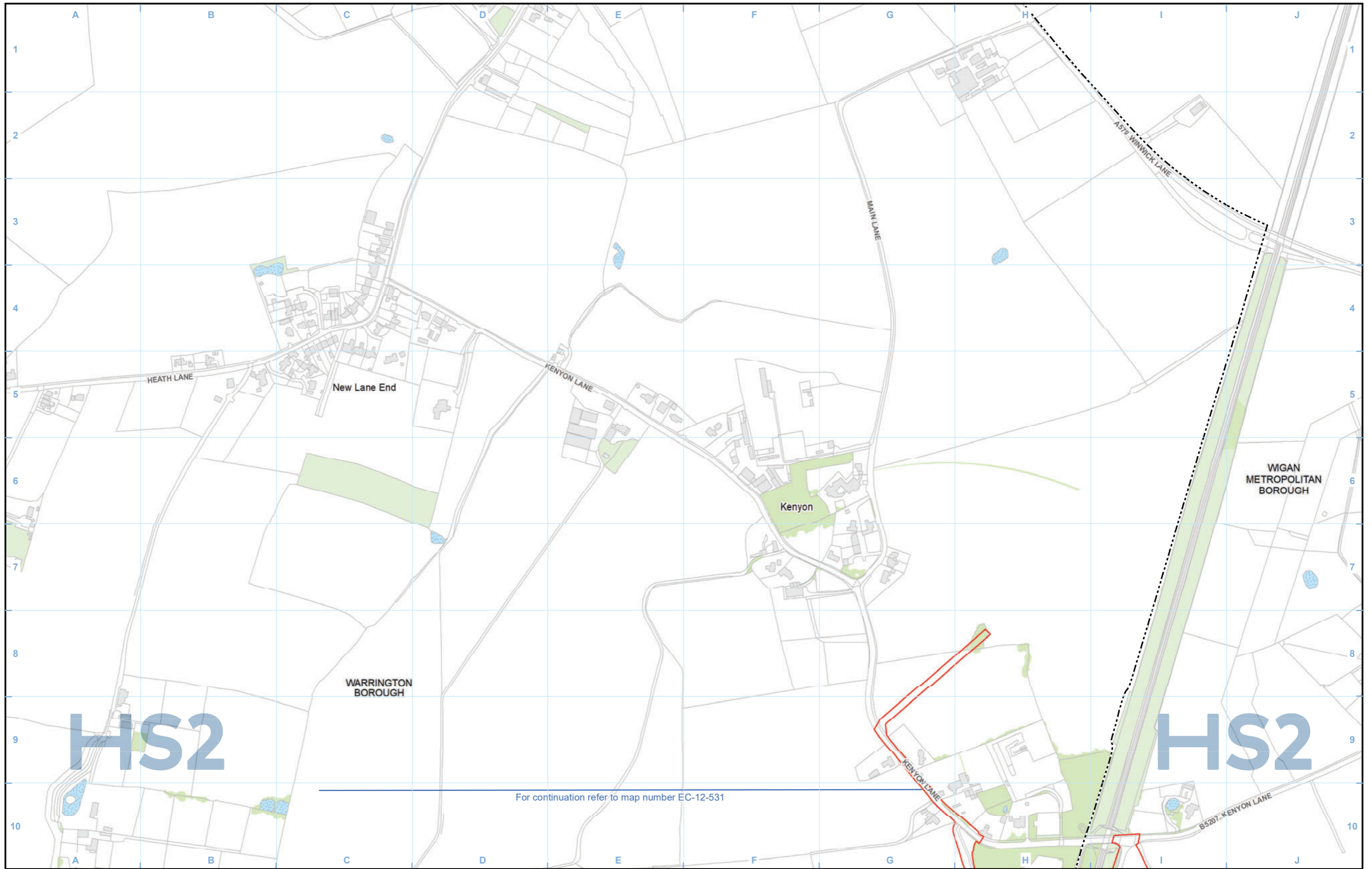
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001546-P01

Date: 09/09/21

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**HS2**

**HS2**

For continuation refer to map number EC-12-531

Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-531-L1
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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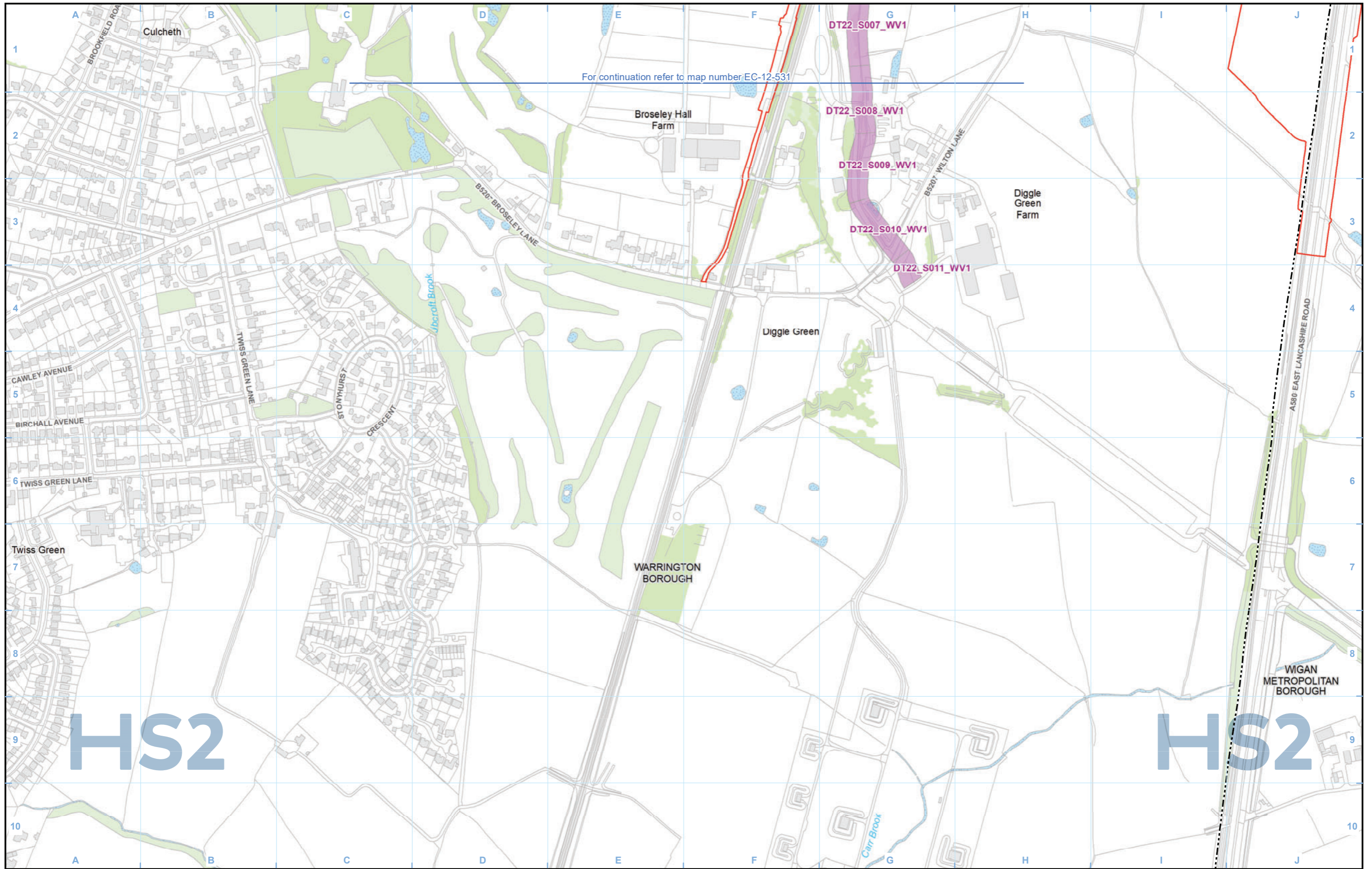
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0 50 100 150 200 Metres

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For continuation refer to map number EC-12-531

Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-531-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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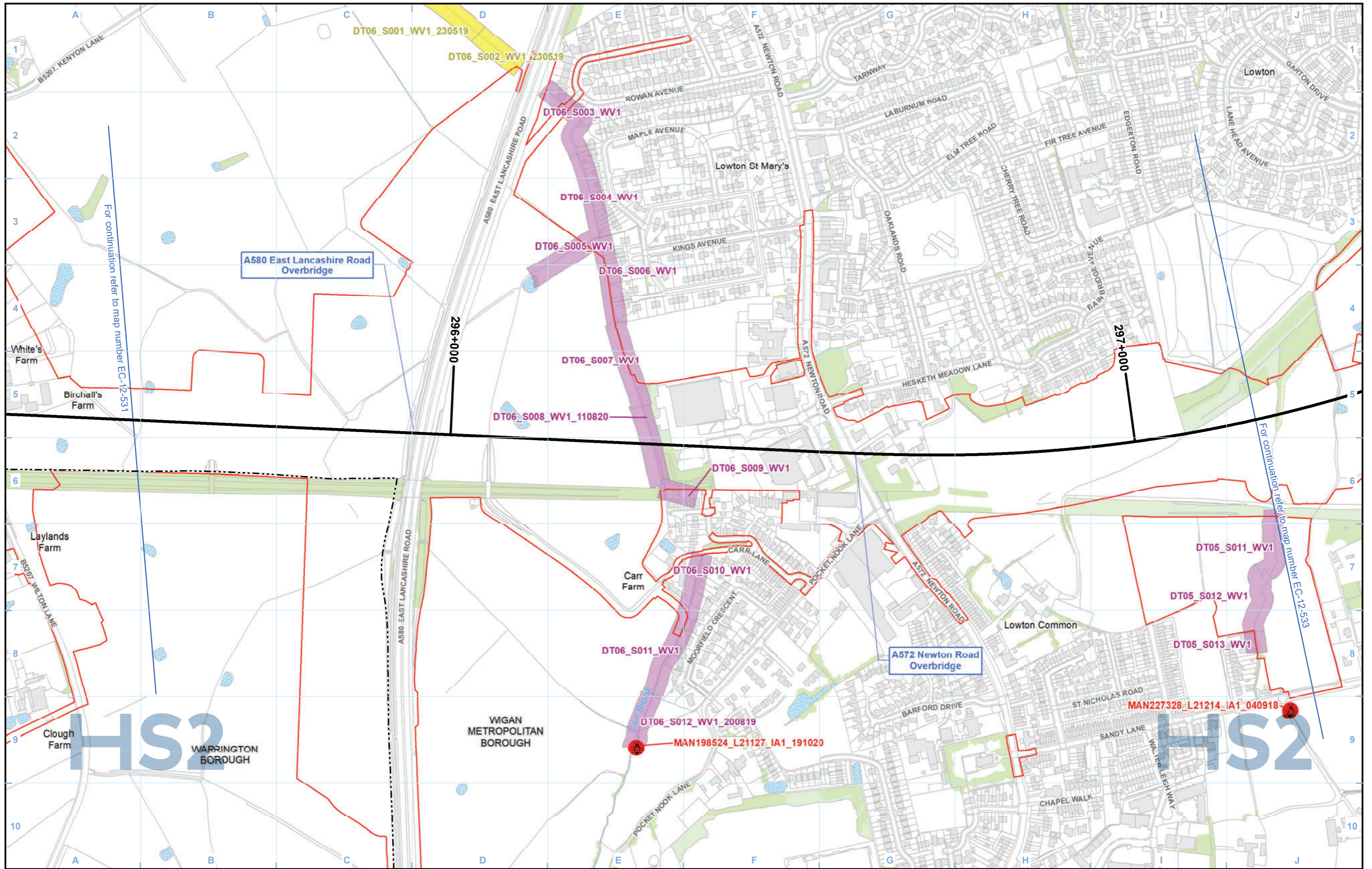
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Scale at A3: 1:5,000

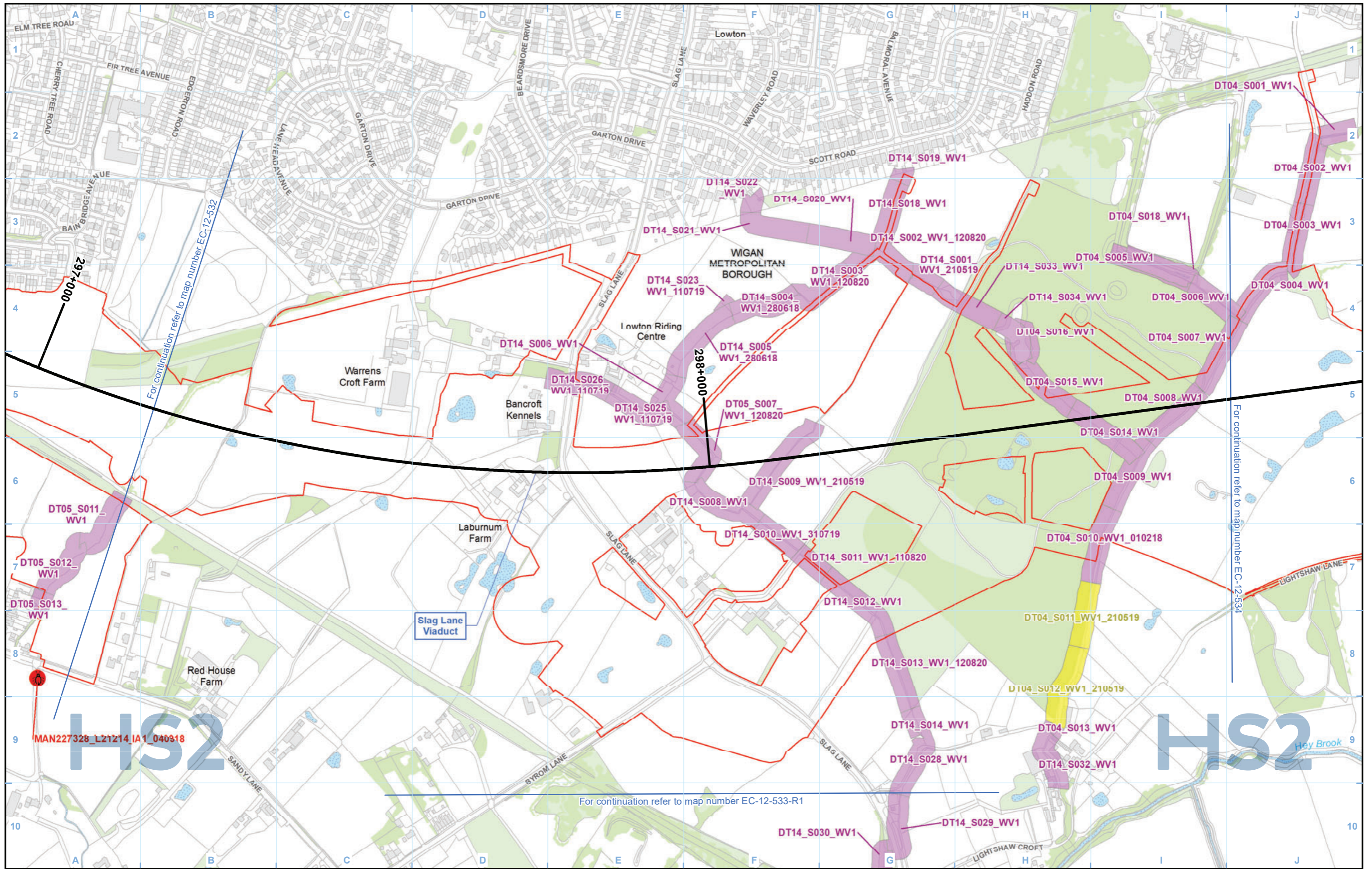
Metres

Date: 09/09/21

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<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) <b>Aquatic invertebrate:</b> Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey	
<b>Map Number</b> EC-12-532				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA05:</b> Risley to Bamfurlong		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-001547-P01</small>	
				<b>Date: 09/09/21</b>	



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate survey location

**Water vole:**

- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

Map Number: EC-12-533

Map Name: Other Protected and Notable Species (2)

Community Area MA05: Risley to Bamfurlong

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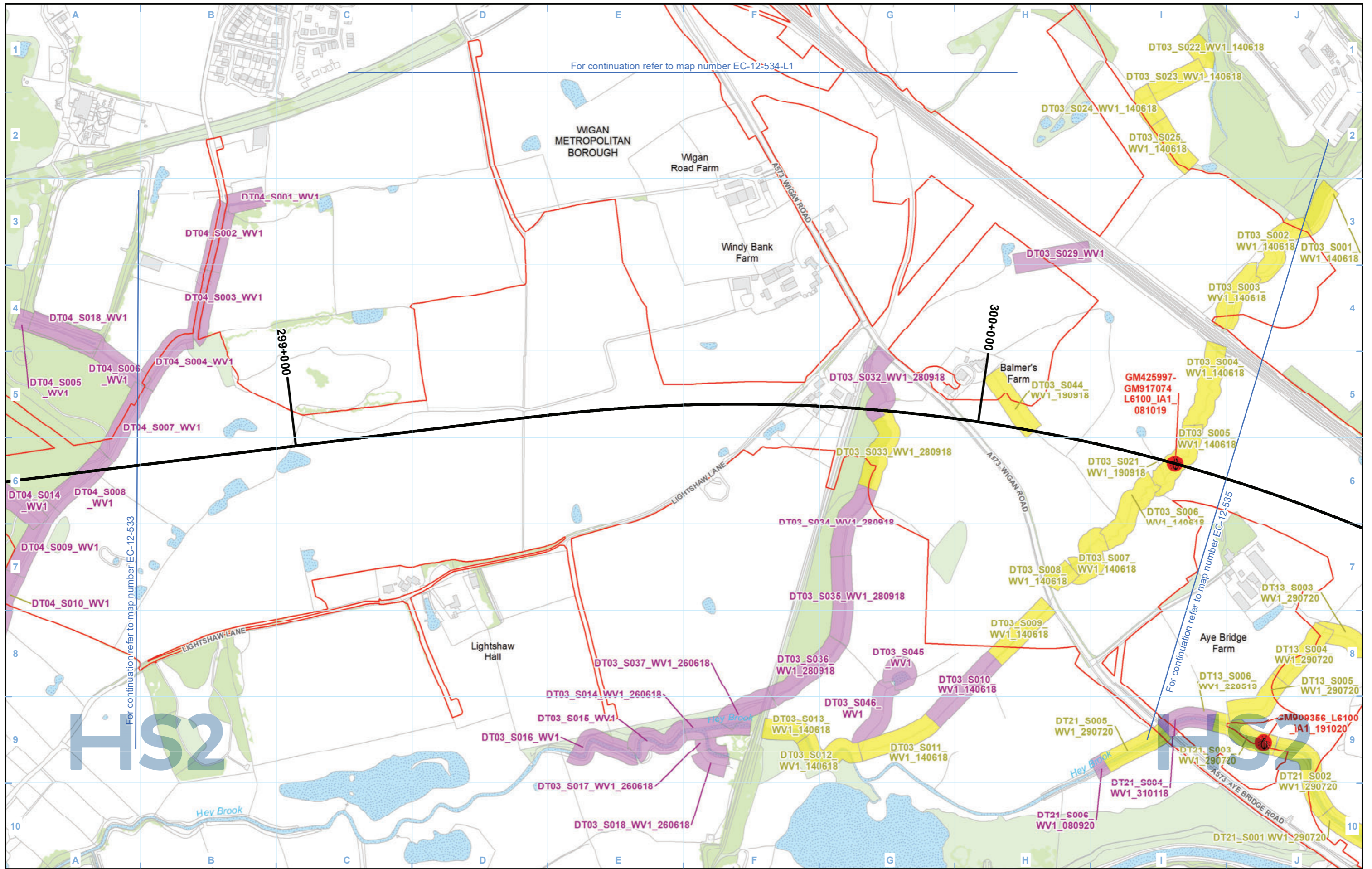
Doc Number: 2DE01-MWJ-EV-MAP-M000-001548-P01

Date: 09/09/21



For continuation refer to map number EC-12-533

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-533-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA05:</b> Risley to Bamfurlong		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003498-P01</small>	
				<b>Date: 09/09/21</b>	



For continuation refer to map number EC-12-534-L1

For continuation refer to map number EC-12-533

For continuation refer to map number EC-12-535

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Aquatic invertebrate survey location

Water vole:	
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-534
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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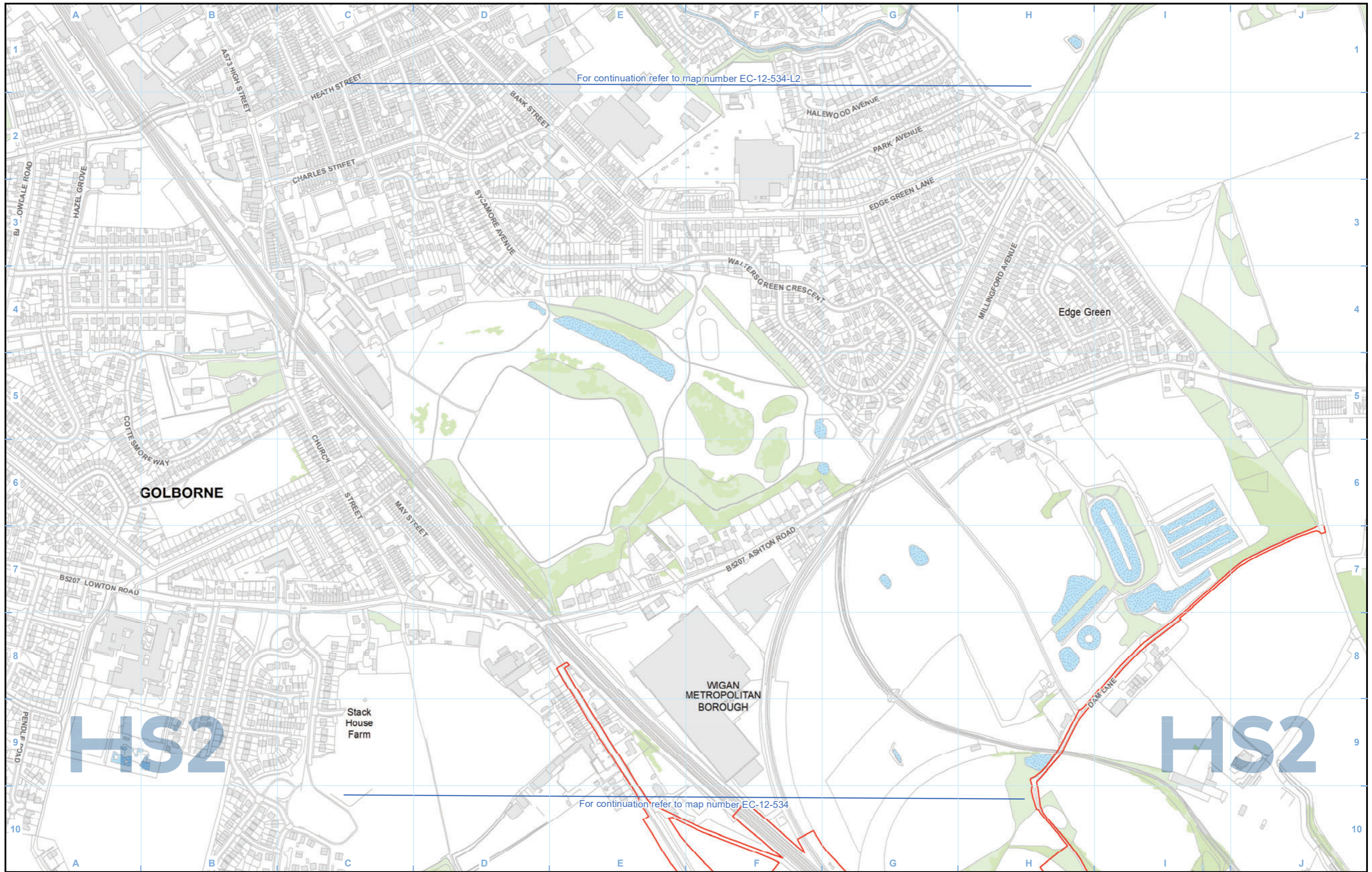
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Scale at A3: 1:5,000

Metres

Date: 09/09/21



For continuation refer to map number EC-12-534-L2

For continuation refer to map number EC-12-534

Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-534-L1
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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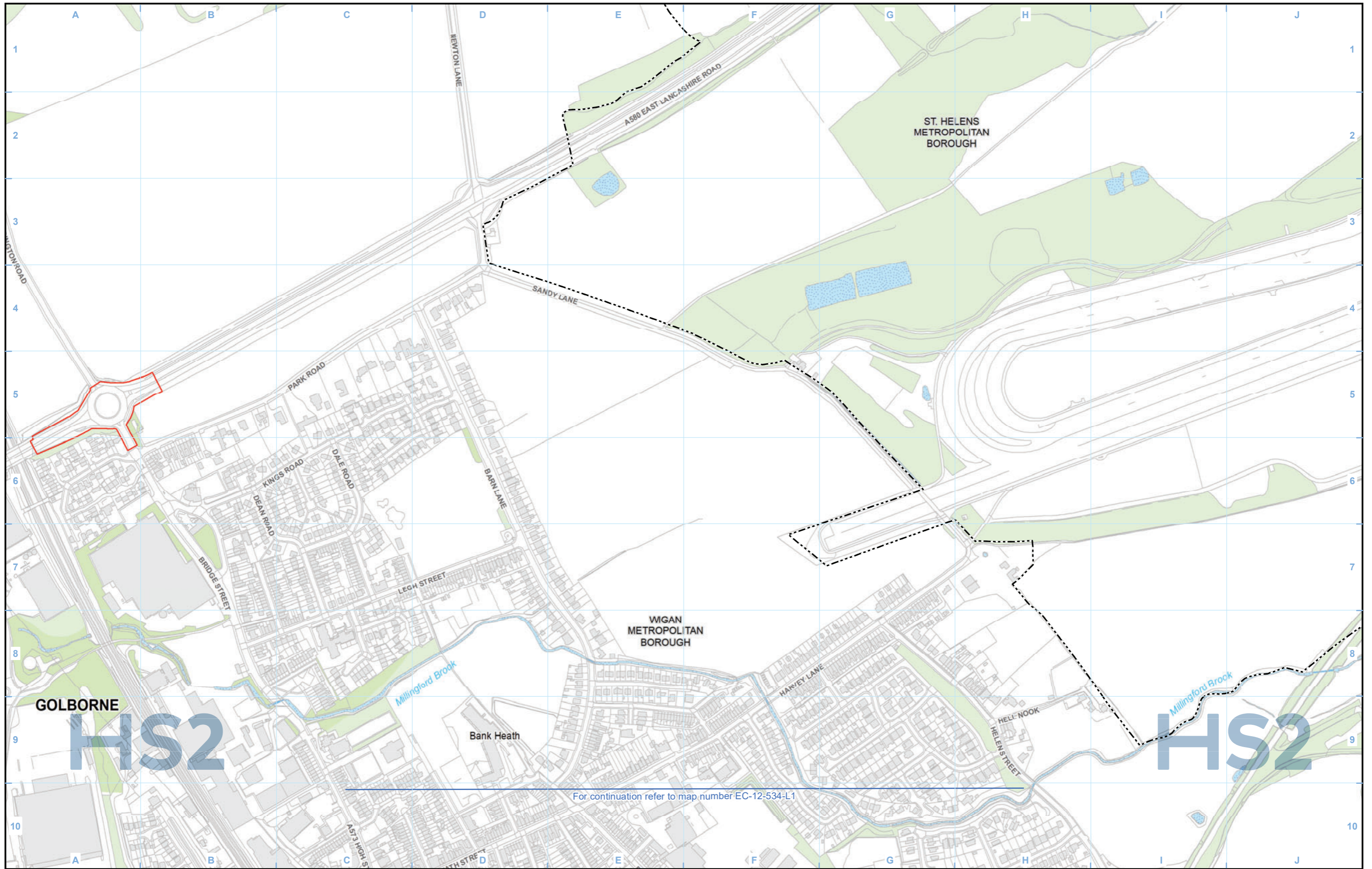
Doc Number: 2DE01-MWJ-EV-MAP-M000-003499-P01

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Metres

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For continuation refer to map number EC-12-534-L1

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number **EC-12-534-L2**

Map Name **Other Protected and Notable Species (2)**

Community Area MA05:  
Risley to Bamfurlong

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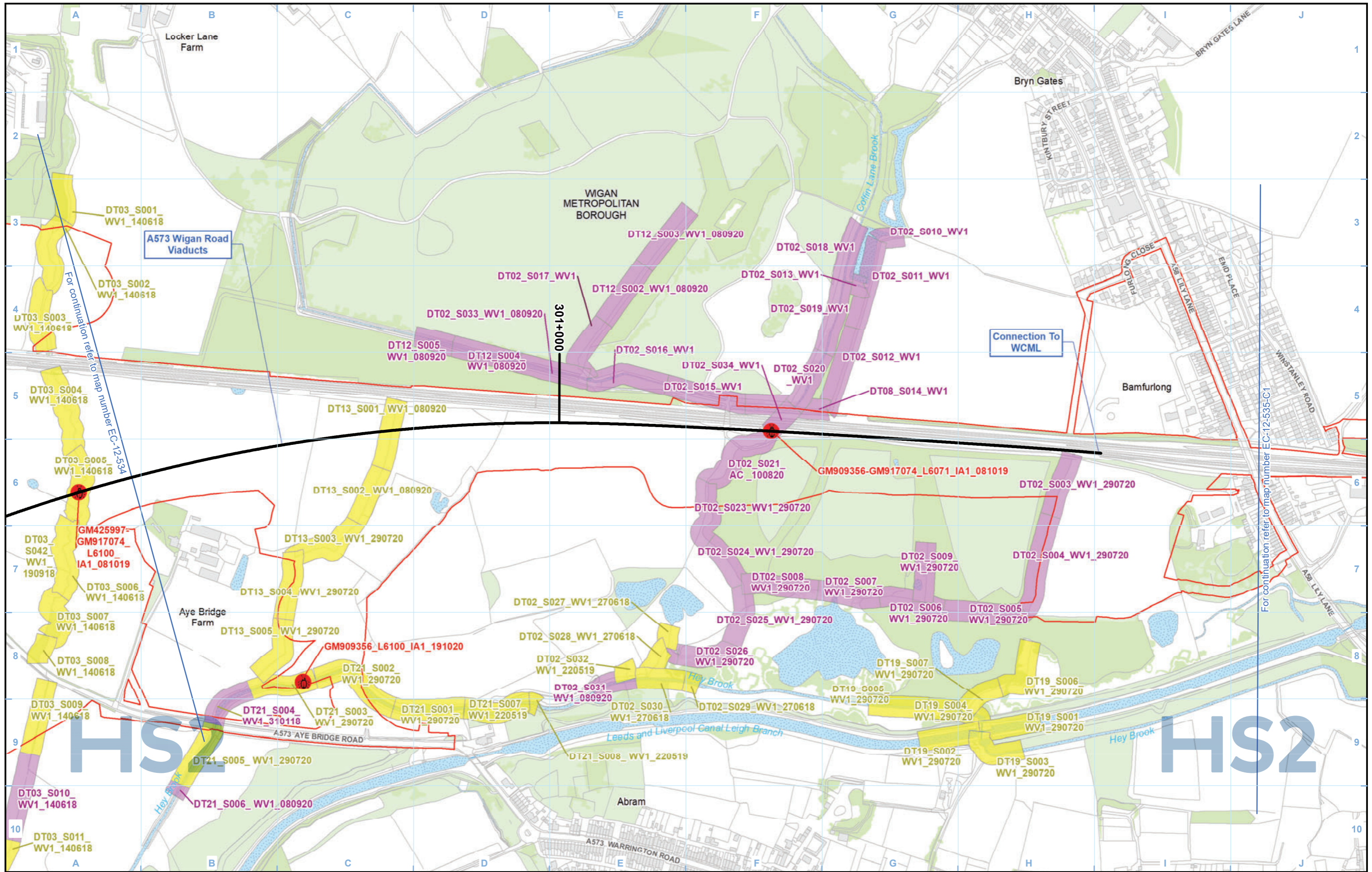
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Scale at A3: 1:5,000

0 50 100 150 200  
Metres

Date: 09/09/21





**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate survey location
- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

**Water vole:**

- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

**Map Number** EC-12-535

**Map Name** Other Protected and Notable Species (2)

Community Area MA05:  
Risley to Bamfurlong

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Scale at A3: 1:5,000

Doc Number: 2DE01-MWJ-EV-MAP-M000-001550-P01

Date: 09/09/21



For continuation refer to map number EC-12-535

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Aquatic invertebrate survey location

Water vole:	
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-535-C1
Map Name	Other Protected and Notable Species (2)
	Community Area MA05: Risley to Bamfurlong

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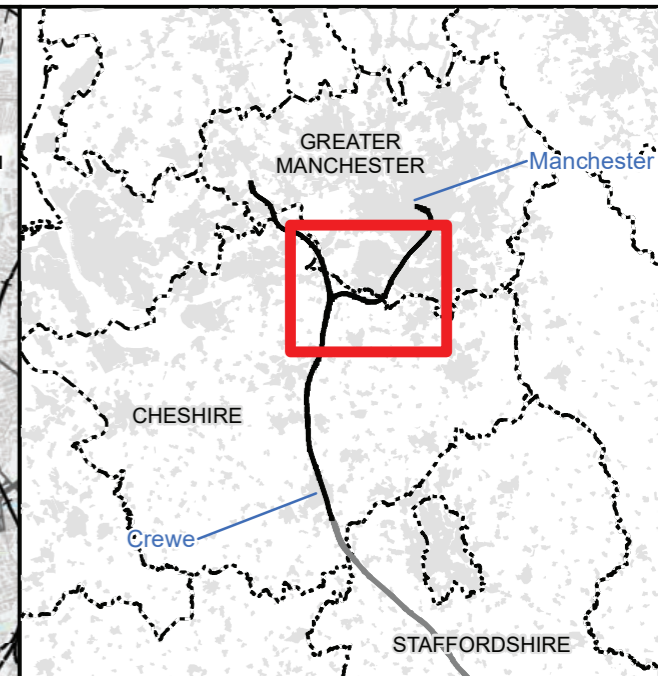
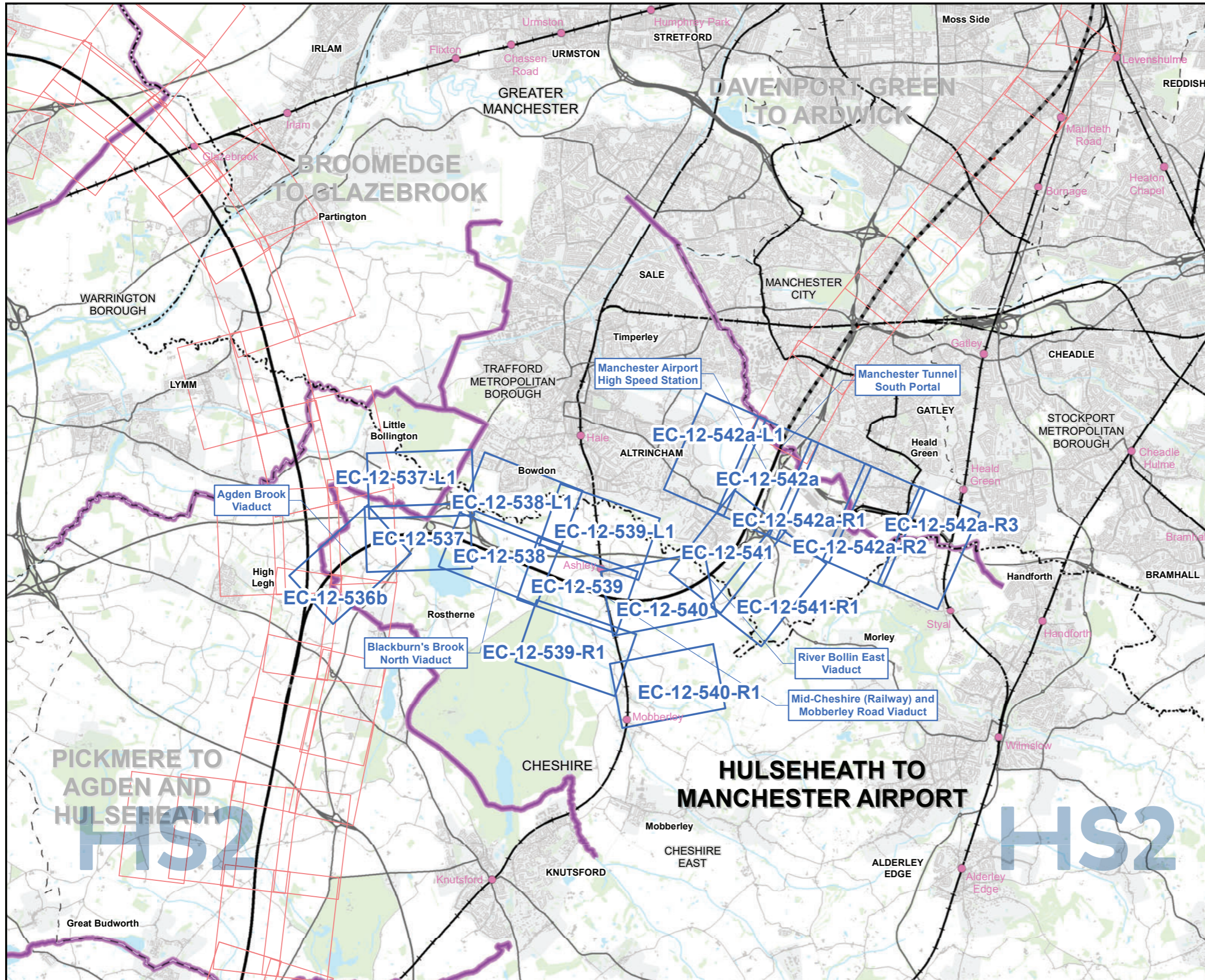
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003501-P01

Scale at A3: 1:5,000

Date: 09/09/21



**Map Series Information:**  
 This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-12-INDEX-MA06
Map Name	Index Map of: Other Protected and Notable Species (2)
	Community Area MA06: Hulseheath to Manchester Airport

**HS2**

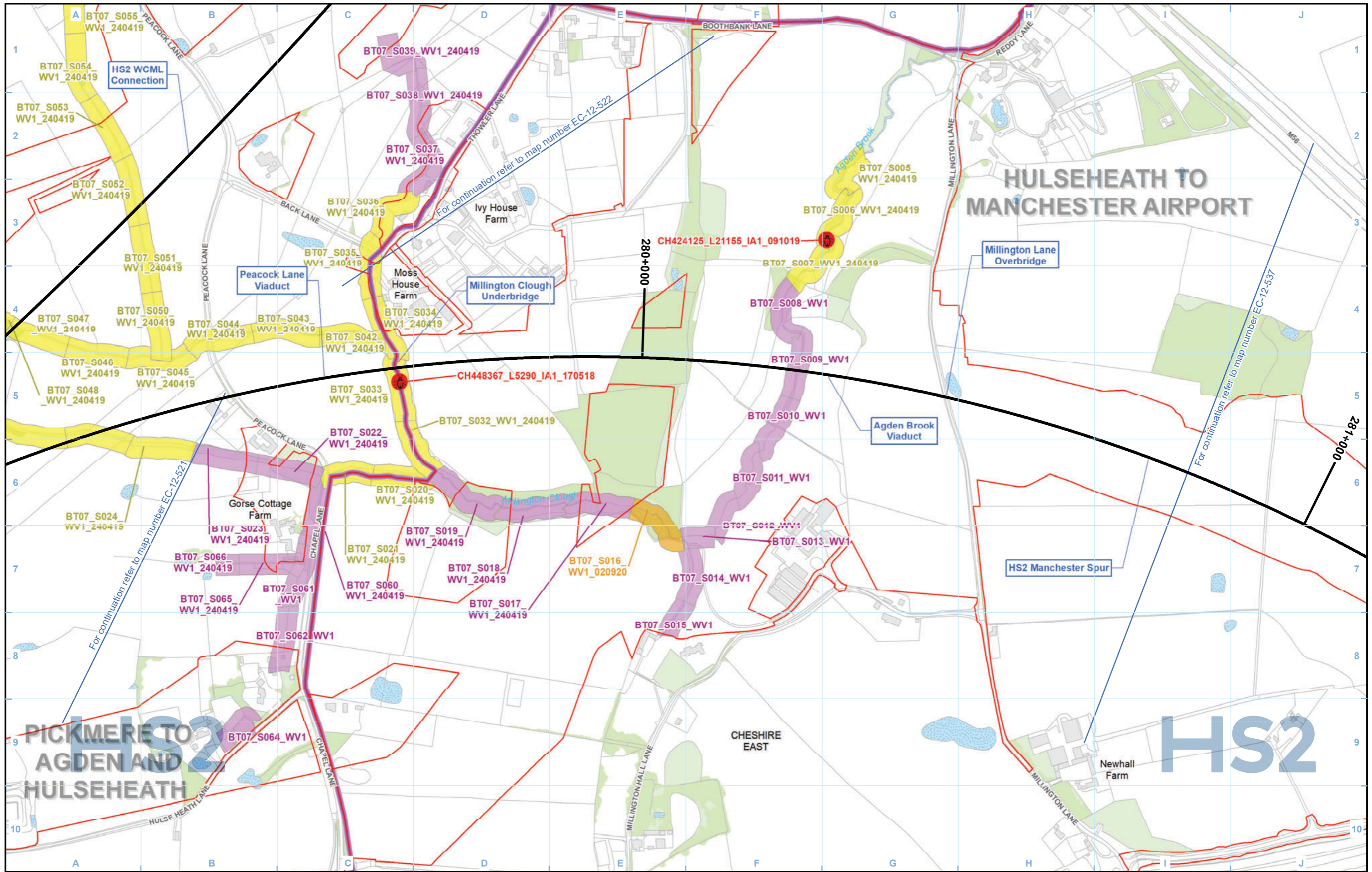
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001590-P01      Date: 09/09/21

Note: Not all data layers in the legend are represented on every map.



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>	<ul style="list-style-type: none"> <li><b>Water vole:</b></li> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number: EC-12-536b

Map Name: Other Protected and Notable Species (2)

Community Area MA06: Hulseheath to Manchester Airport

**HS2**

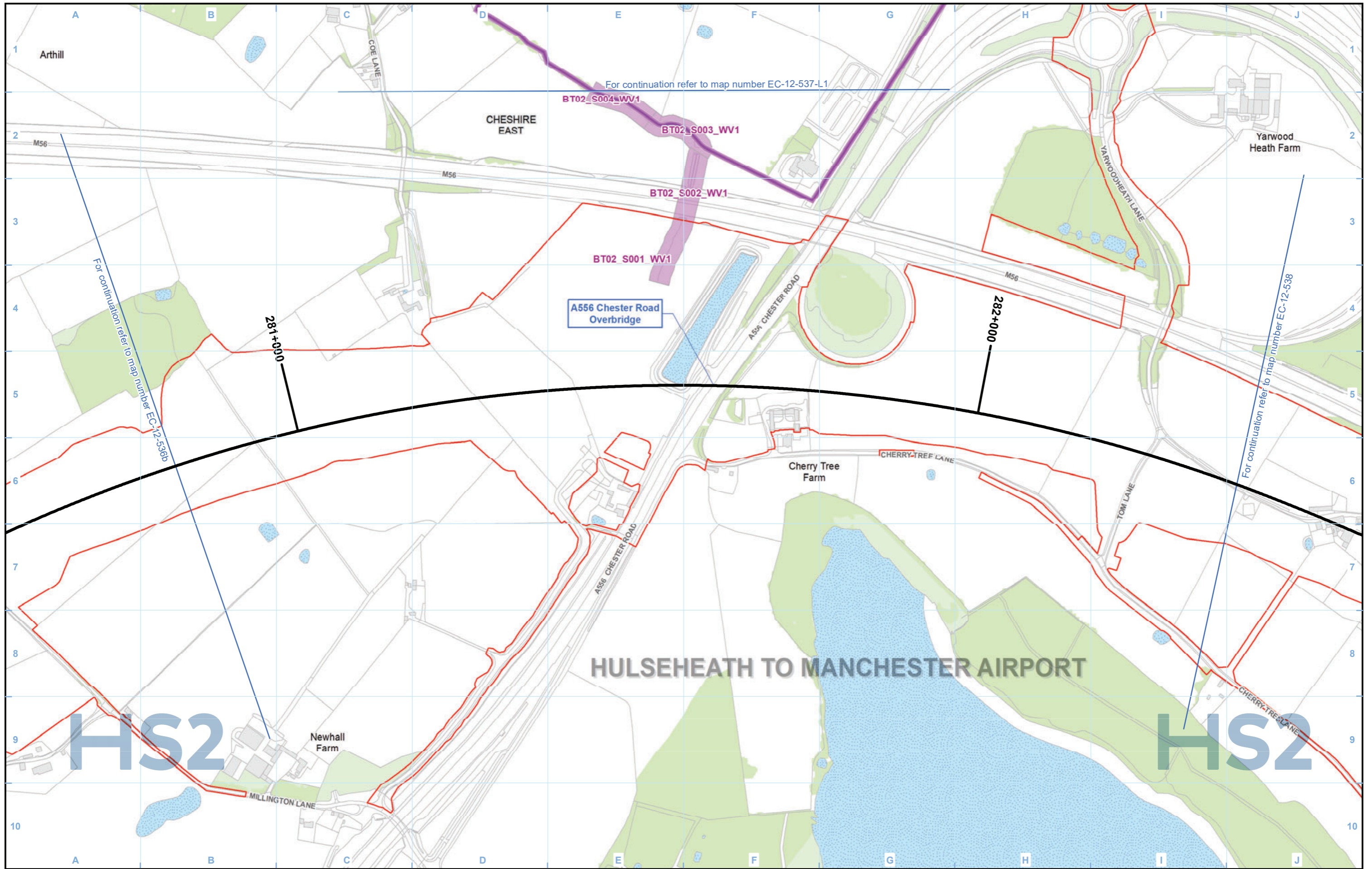
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001552-P01

Date: 09/09/21



Legend		
	Route in tunnel	
	Route on surface	
	Depot, station, headhouse or portal building	
	Land potentially required during construction	
	Community area boundary	
	County boundary	
	District/Borough boundary	
	Watercourse	
	Water body	
	Woodland (verified by survey)	
	Aquatic invertebrate survey location	
	Water vole survey undertaken - presence confirmed	
	Water vole survey undertaken - assumed absent	
	Watercourse potentially suitable for water vole - no or limited access for survey	

Map Number	EC-12-537
Map Name	Other Protected and Notable Species (2)
	Community Area MA06: Hulseheath to Manchester Airport

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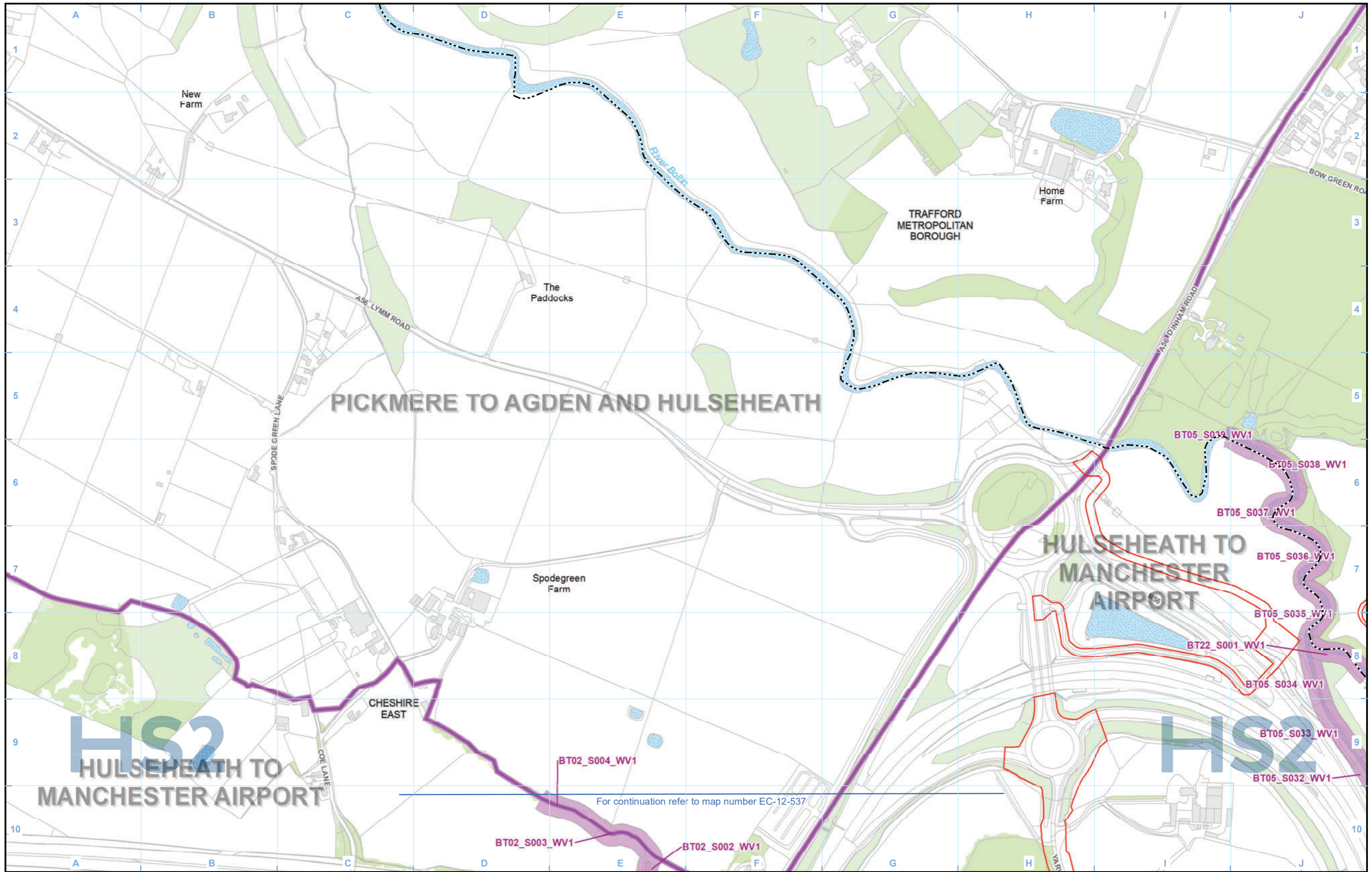
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001553-P01

Scale at A3: 1:5,000

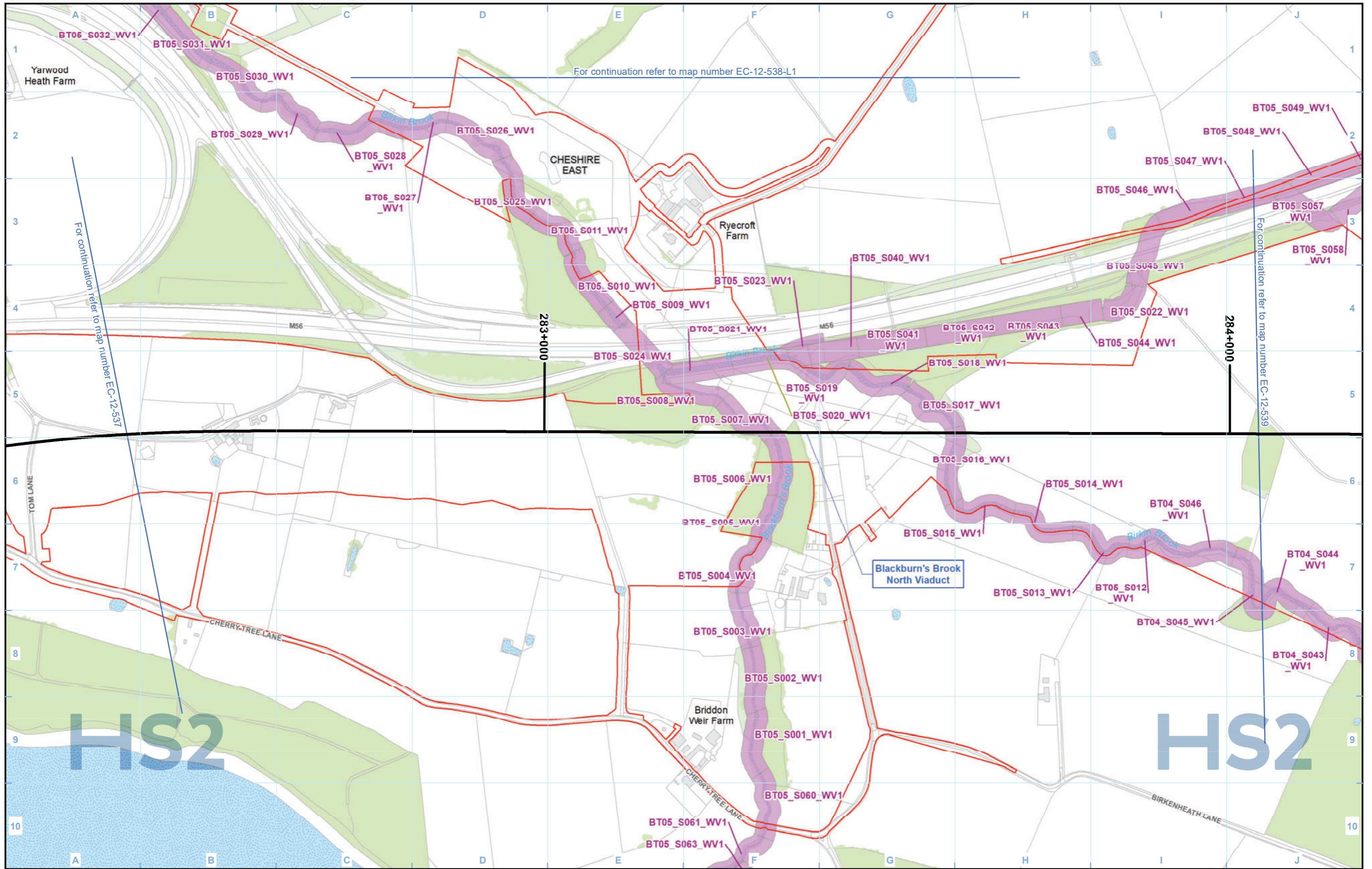
Metres

Date: 09/09/21



For continuation refer to map number EC-12-537

<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) <b>Aquatic invertebrate:</b> Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey	
<b>Map Number</b> EC-12-537-L1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686.          Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		<b>Scale at A3: 1:5,000</b> 	
Community Area MA06: Hulseheath to Manchester Airport		<small>© Crown copyright and database rights 2020          OS 100049190</small>		<b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-003502-P01	
				<b>Date:</b> 09/09/21	



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Aquatic invertebrate:</li> <li> Aquatic invertebrate survey location</li> </ul>	<p><b>Water vole:</b></p> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number	EC-12-538
Map Name	Other Protected and Notable Species (2)
Community Area MA06: Hulseheath to Manchester Airport	

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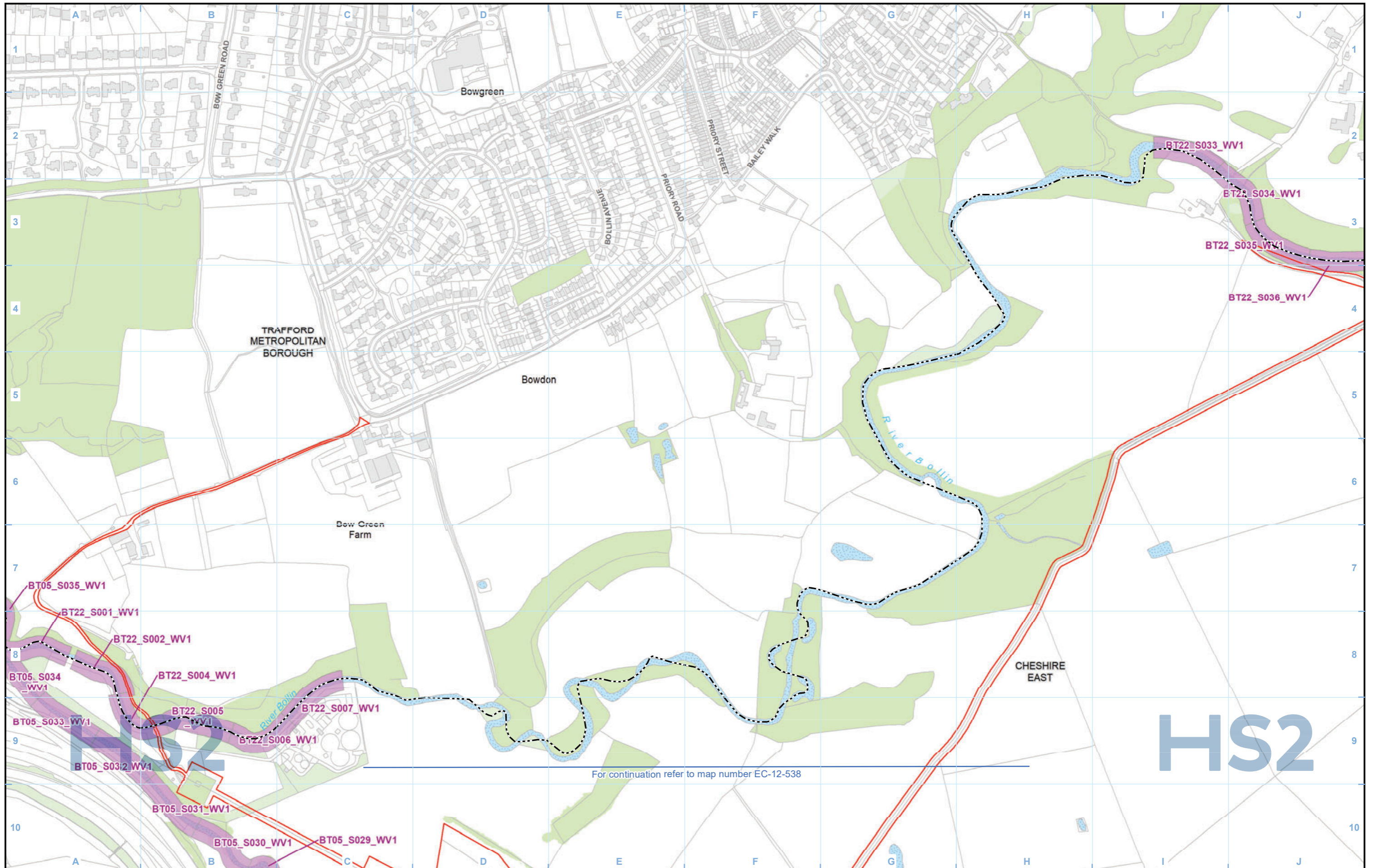
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001554-P01

Date: 09/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres



For continuation refer to map number EC-12-538

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Aquatic invertebrate survey location

Water vole:	
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-538-L1
Map Name	Other Protected and Notable Species (2)
Community Area MA06: Hulseheath to Manchester Airport	

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Doc Number: 2DE01-MWJ-EV-MAP-M000-003503-P01

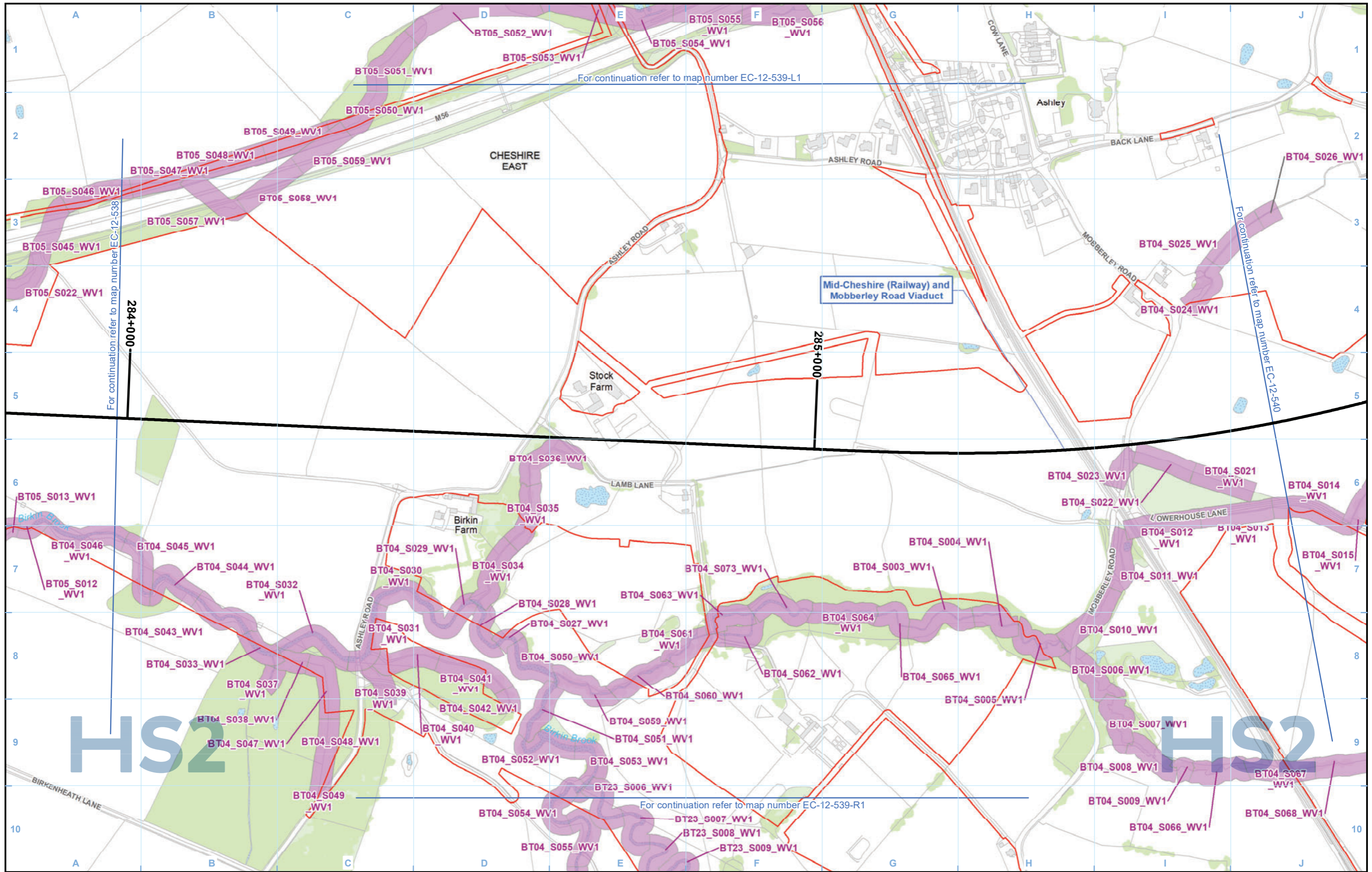
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Metres

Date: 09/09/21

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For continuation refer to map number EC-12-538

For continuation refer to map number EC-12-539-L1

For continuation refer to map number EC-12-540

For continuation refer to map number EC-12-539-R1

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Aquatic invertebrate survey location

Water vole:	
	Water vole survey undertaken - presence confirmed
	Water vole survey undertaken - assumed absent
	Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-539
Map Name	Other Protected and Notable Species (2)
Community Area MA06: Hulseheath to Manchester Airport	

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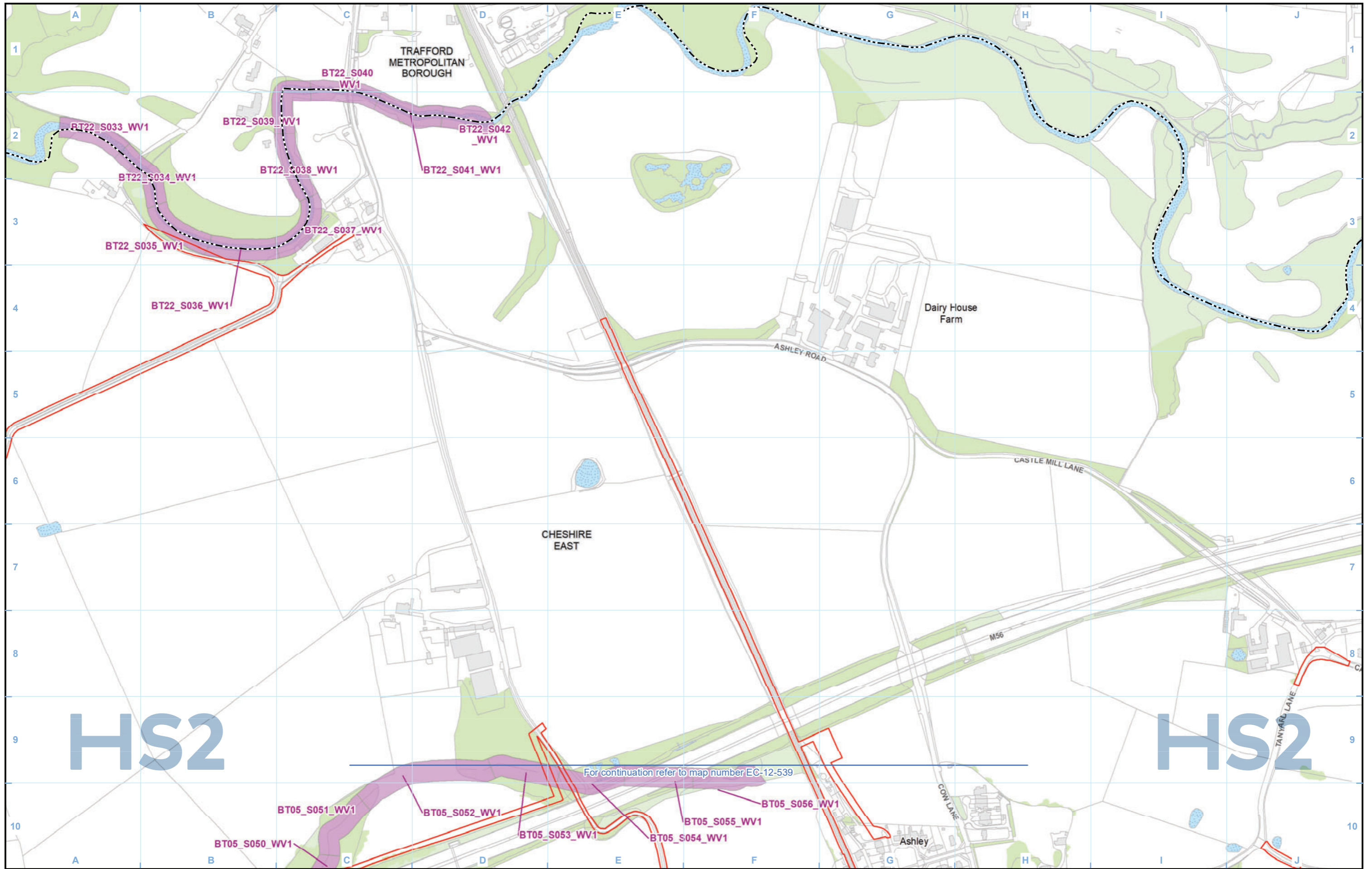
Doc Number: 2DE01-MWJ-EV-MAP-M000-001555-P01

Scale at A3: 1:5,000

Metres

Date: 09/09/21

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**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>	<ul style="list-style-type: none"> <li><b>Water vole:</b></li> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number: EC-12-539-L1

Map Name: Other Protected and Notable Species (2)

Community Area MA06: Hulseheath to Manchester Airport

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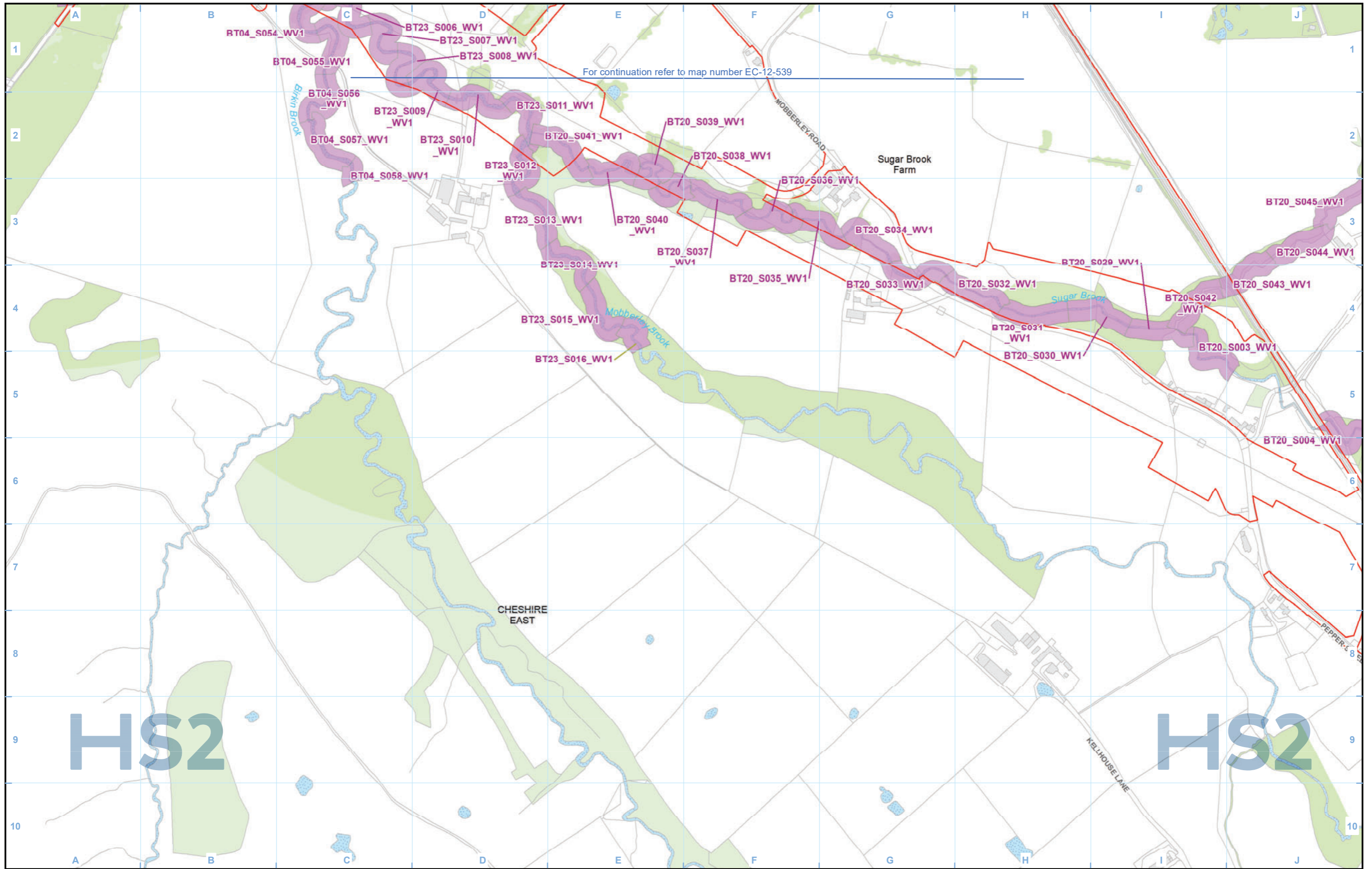
Doc Number: 2DE01-MWJ-EV-MAP-M000-003504-P01

Date: 09/09/21

Scale at A3: 1:5,000

0 50 100 150 200 Metres

For continuation refer to map number EC-12-539

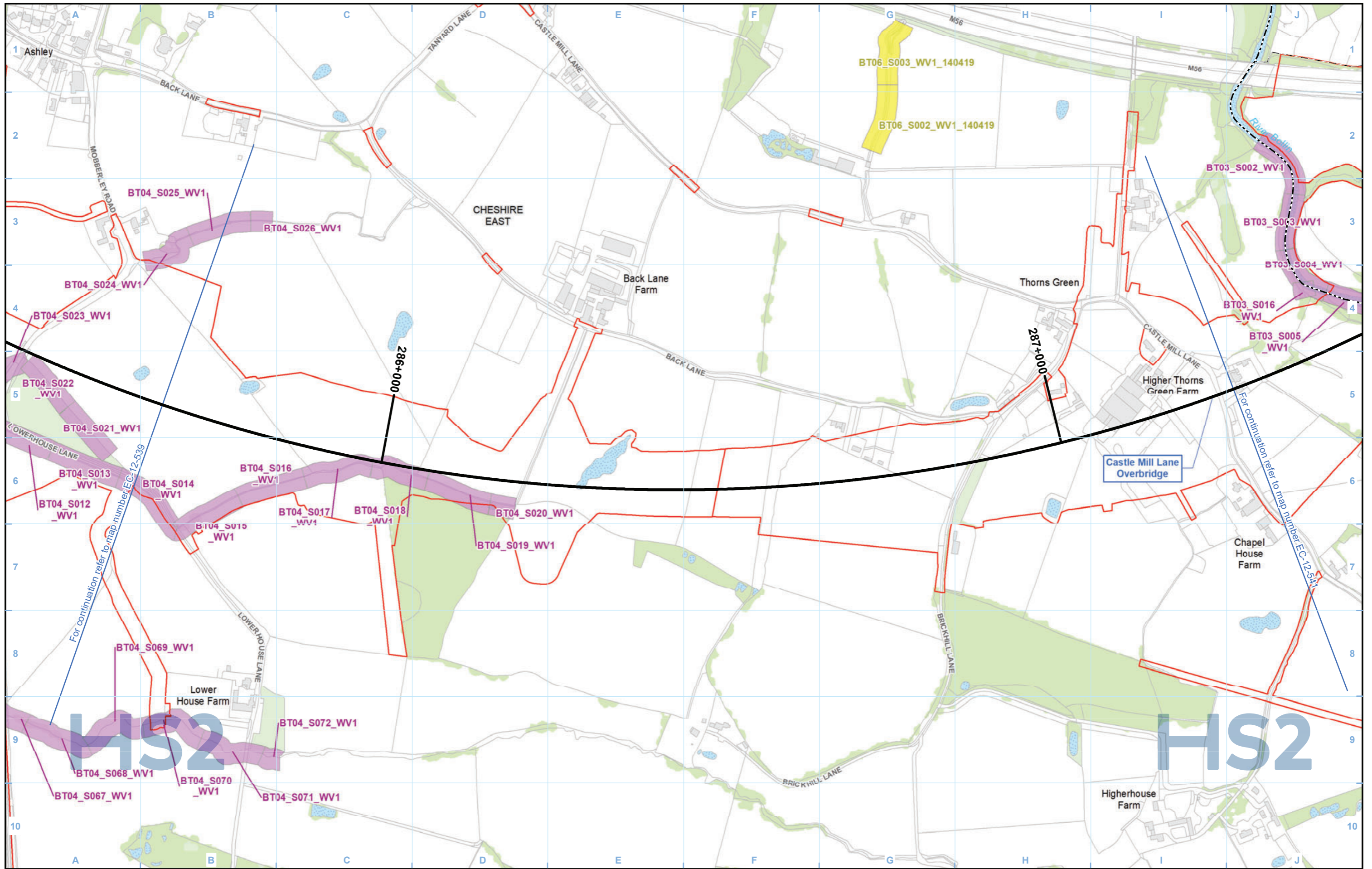


**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>	<ul style="list-style-type: none"> <li><b>Water vole:</b></li> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number	EC-12-539-R1
Map Name	Other Protected and Notable Species (2)
Community Area MA06: Hulseheath to Manchester Airport	

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Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Aquatic invertebrate survey location
	Community area boundary		Water vole survey undertaken - presence confirmed
	County boundary		Water vole survey undertaken - assumed absent
	District/Borough boundary		Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-540
Map Name	Other Protected and Notable Species (2)
Community Area MA06: Hulseheath to Manchester Airport	

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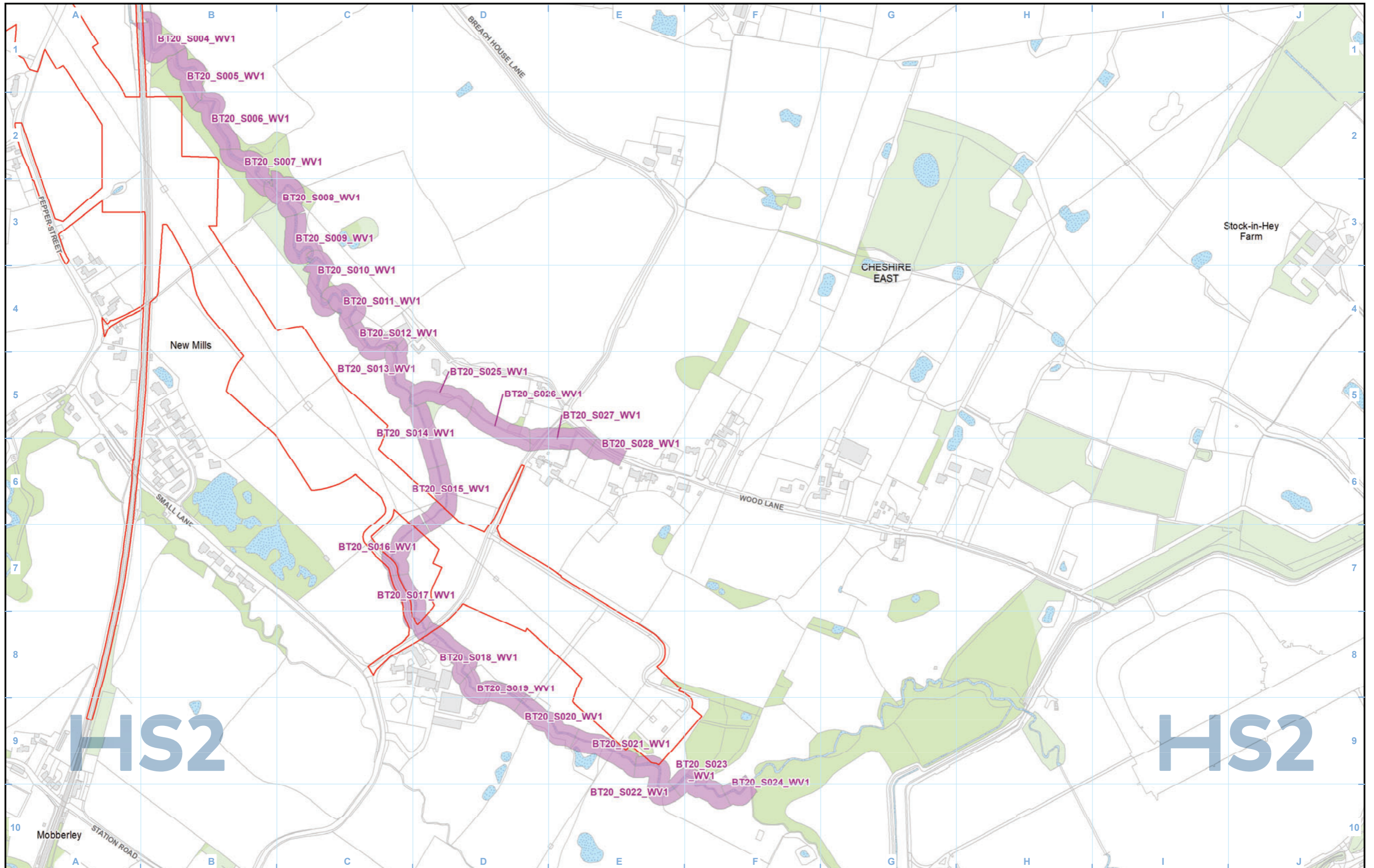
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Scale at A3: 1:5,000

Date: 09/09/21



Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Aquatic invertebrate survey location
	Community area boundary		Water vole survey undertaken - presence confirmed
	County boundary		Water vole survey undertaken - assumed absent
	District/Borough boundary		Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-540-R1
Map Name	Other Protected and Notable Species (2)
Community Area MA06: Hulseheath to Manchester Airport	

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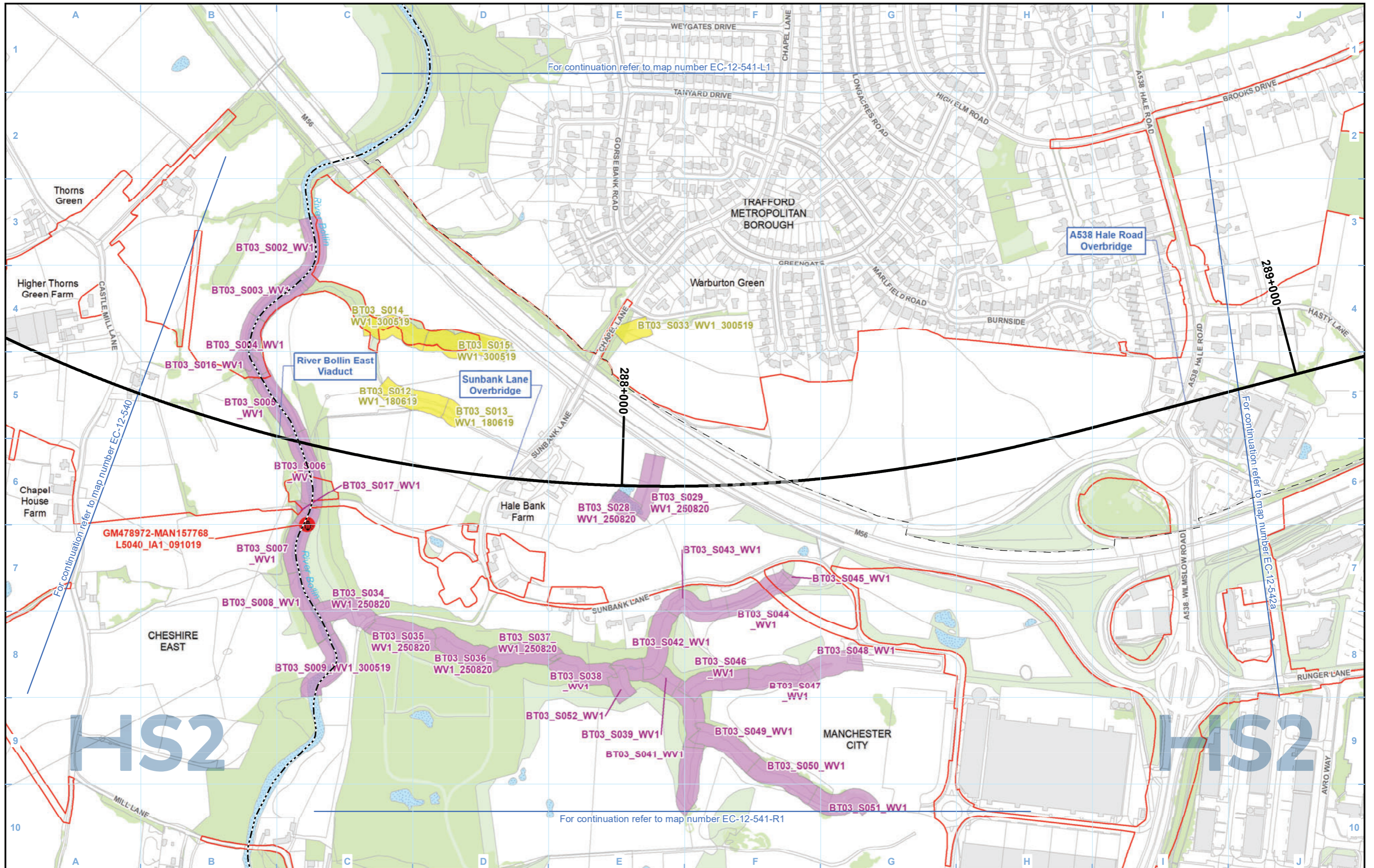
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Scale at A3: 1:5,000

Metres

Date: 09/09/21

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**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:
- Aquatic invertebrate survey location

**Water vole:**

- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

Map Number: EC-12-541

Map Name: Other Protected and Notable Species (2)

Community Area MA06: Hulseheath to Manchester Airport

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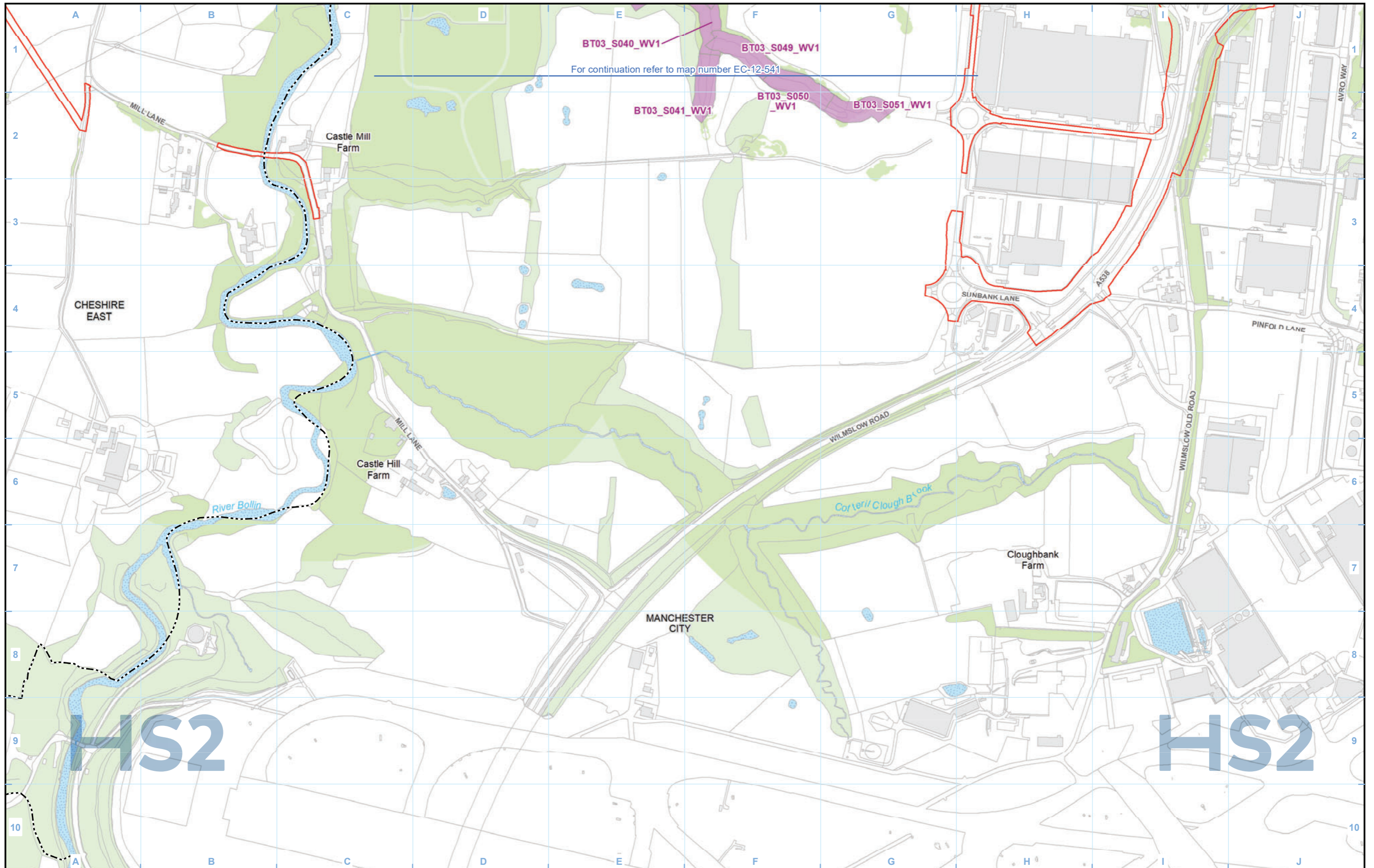
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Date: 09/09/21

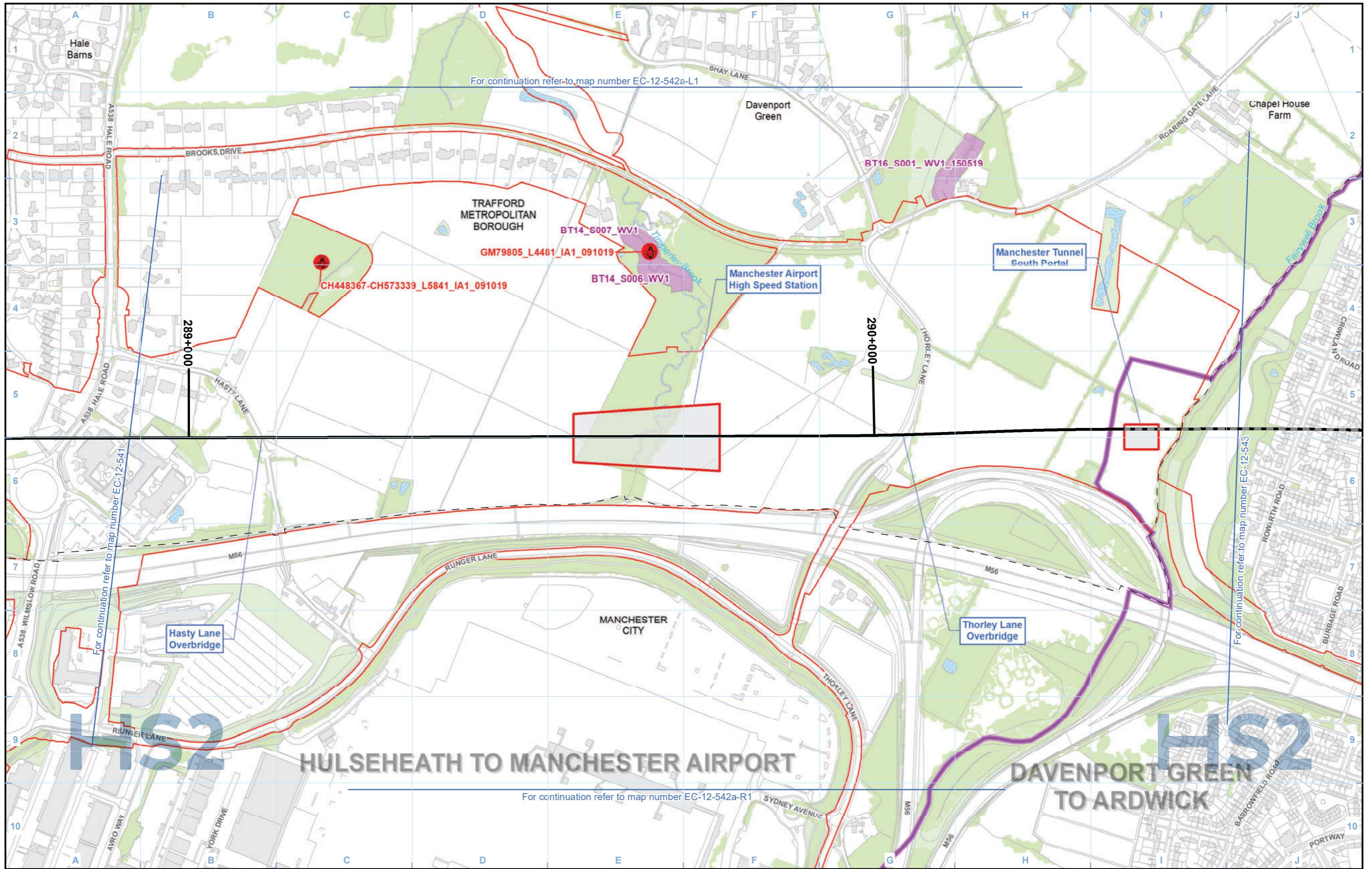
Scale at A3: 1:5,000

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For continuation refer to map number EC-12-541

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-541-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686.            Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
Community Area MA06: Hulseheath to Manchester Airport		<small>© Crown copyright and database rights 2020            OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003507-P01</small>	
				<b>Date: 09/09/21</b>	



**Legend**

<ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Aquatic invertebrate:</li> <li> Aquatic invertebrate survey location</li> </ul>	<p><b>Water vole:</b></p> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>
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Map Number: EC-12-542a

Map Name: Other Protected and Notable Species (2)

Community Area MA06: Hulseheath to Manchester Airport

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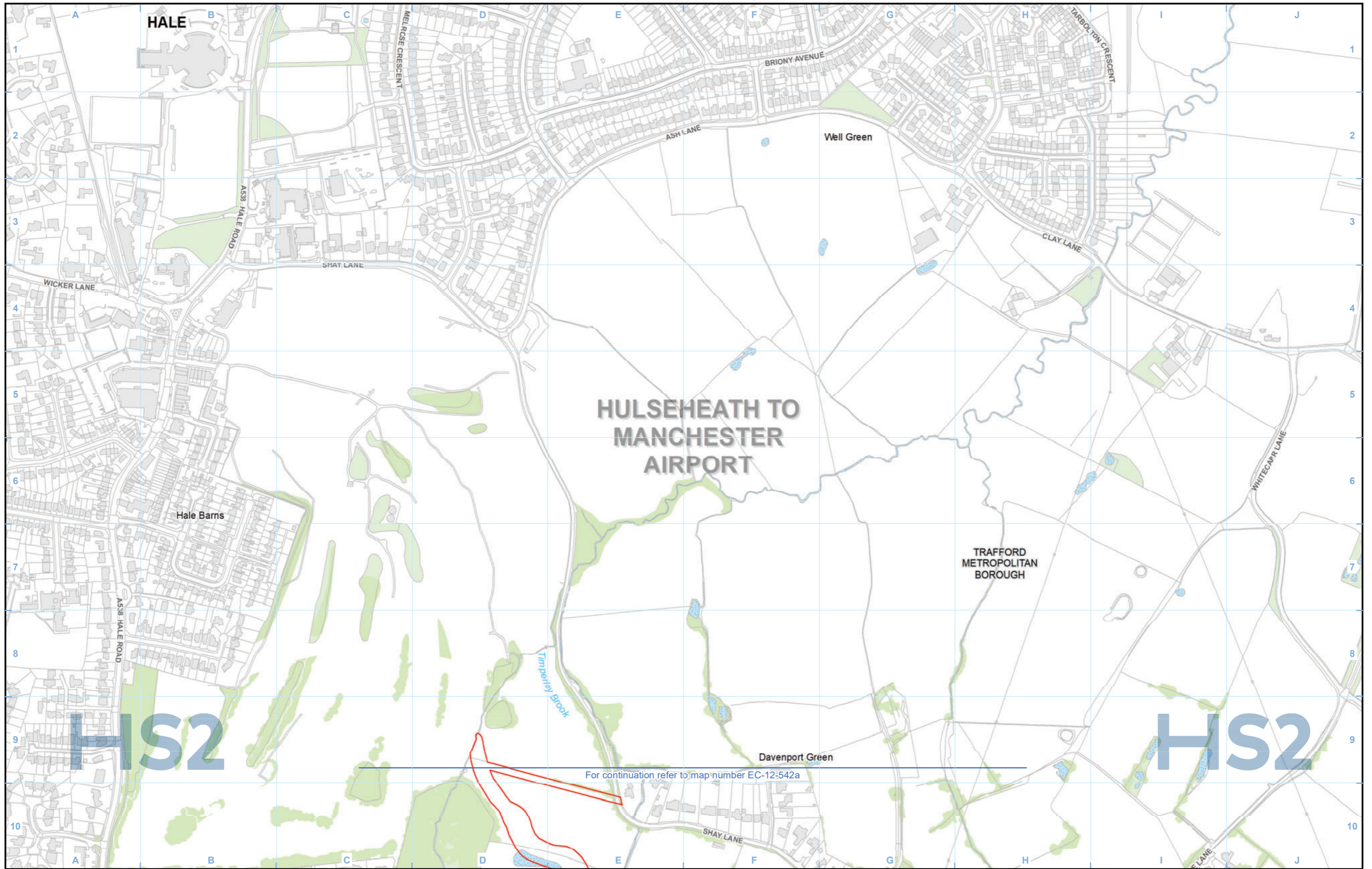
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001558-P01

Scale at A3: 1:5,000

Date: 09/09/21





Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-542a-L1
Map Name	Other Protected and Notable Species (2)
	Community Area MA06: Hulseheath to Manchester Airport

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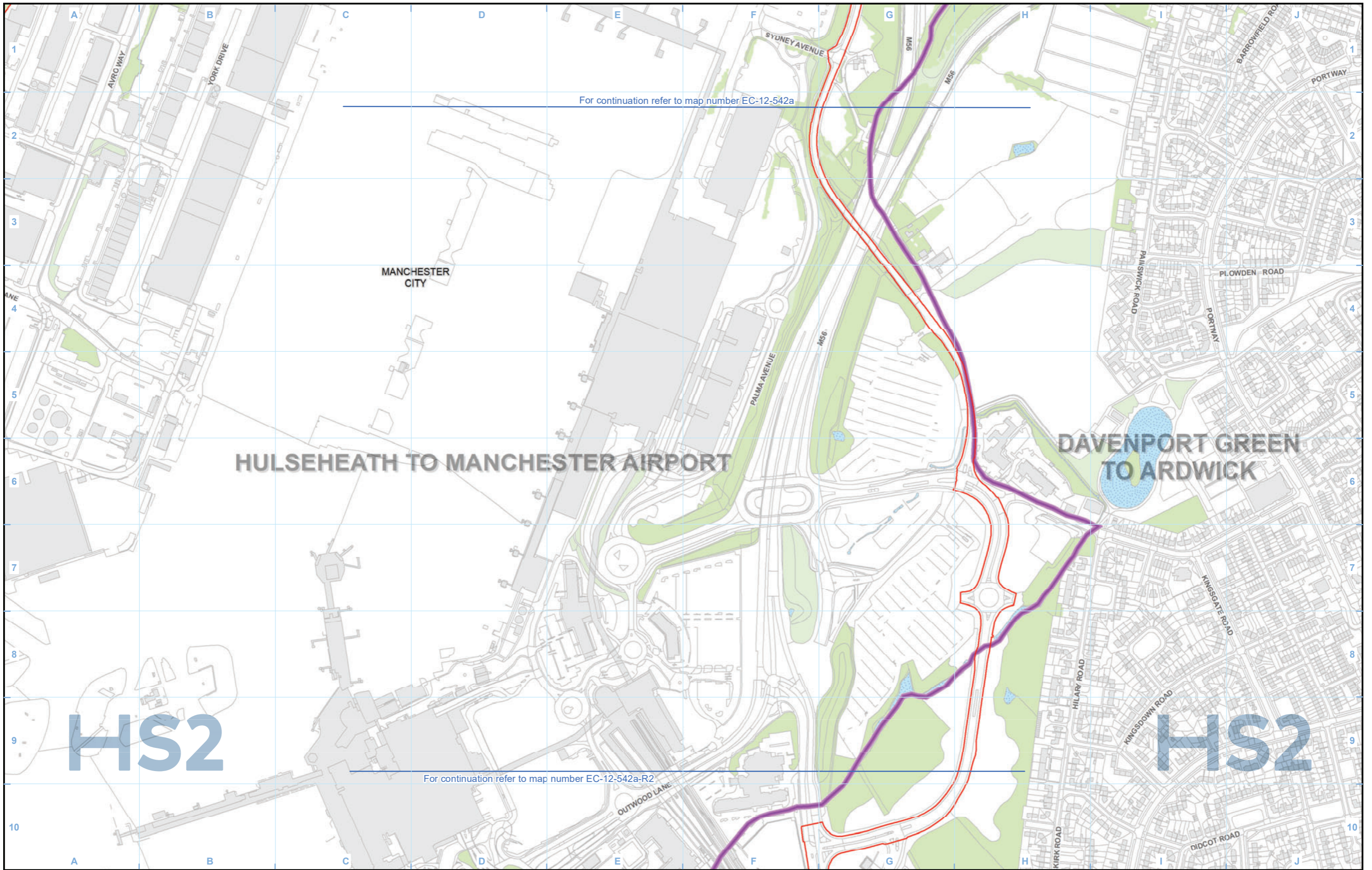
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003508-P01

Scale at A3: 1:5,000

Date: 09/09/21

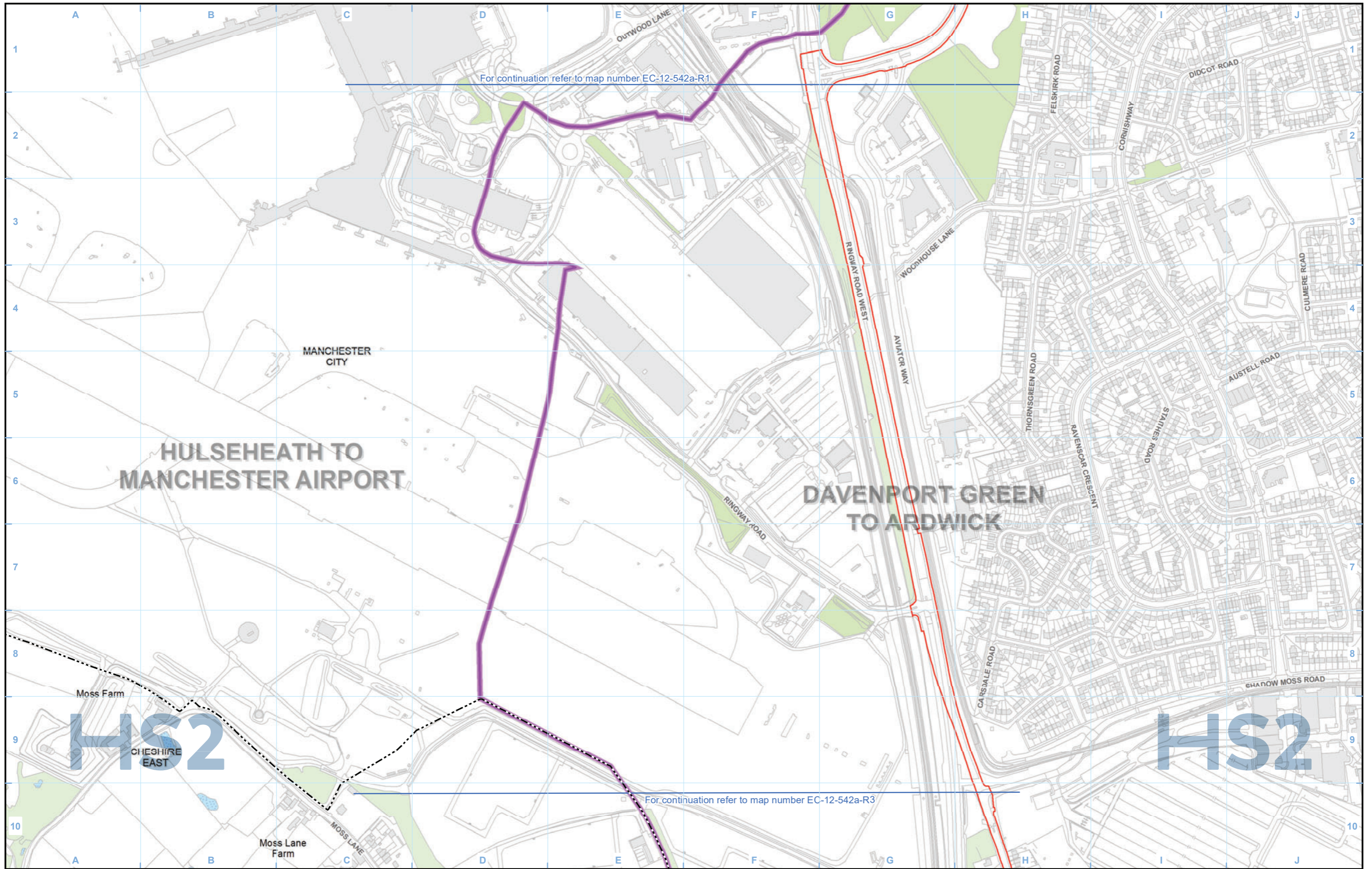
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For continuation refer to map number EC-12-542a

For continuation refer to map number EC-12-542a-R2

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li><b>Aquatic invertebrate:</b></li> <li> Aquatic invertebrate survey location</li> </ul>		<b>Water vole:</b> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	
<b>Map Number</b> EC-12-542a-R1				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small>		<b>Scale at A3: 1:5,000</b> 	
<b>Community Area MA06:</b> Hulseheath to Manchester Airport		<small>© Crown copyright and database rights 2020 OS 100049190</small>		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-003509-P01</small>	
				<b>Date: 09/09/21</b>	



For continuation refer to map number EC-12-542a-R1

For continuation refer to map number EC-12-542a-R3

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary
  - Watercourse
  - Water body
  - Woodland (verified by survey)
  - Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number EC-12-542a-R2

Map Name Other Protected and Notable Species (2)

Community Area MA06:  
Hulseheath to Manchester Airport

**HS2**

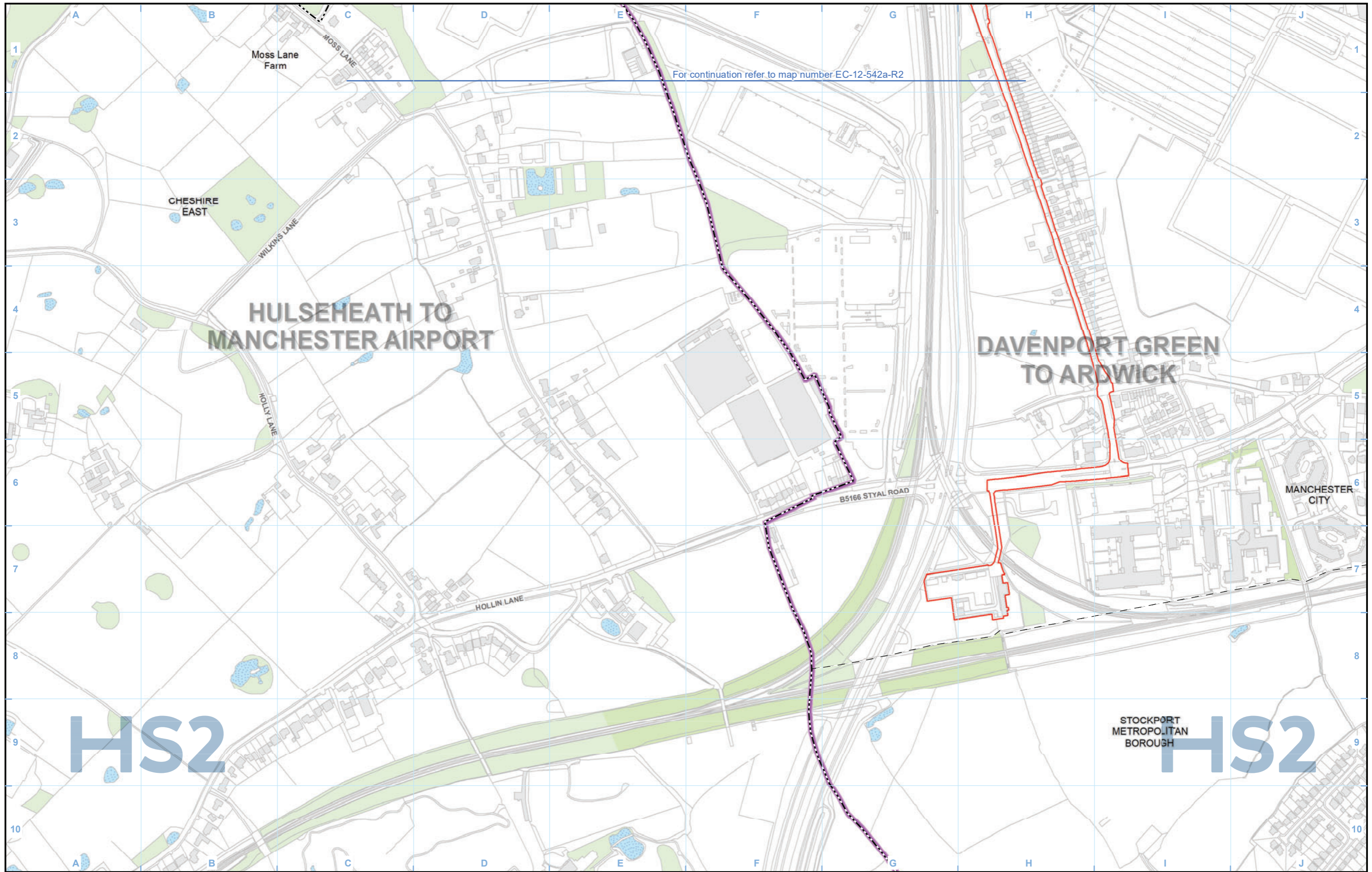
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003510-P01

Date: 09/09/21



For continuation refer to map number EC-12-542a-R2

# HULSEHEATH TO MANCHESTER AIRPORT

# DAVENPORT GREEN TO ARDWICK

# HS2

# HS2

- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number EC-12-542a-R3

Map Name Other Protected and Notable Species (2)

Community Area MA06:  
Hulseheath to Manchester Airport

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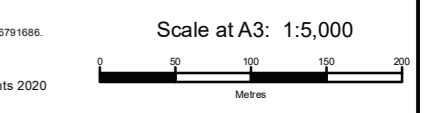
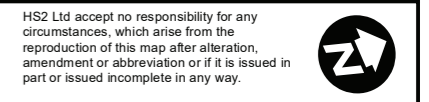
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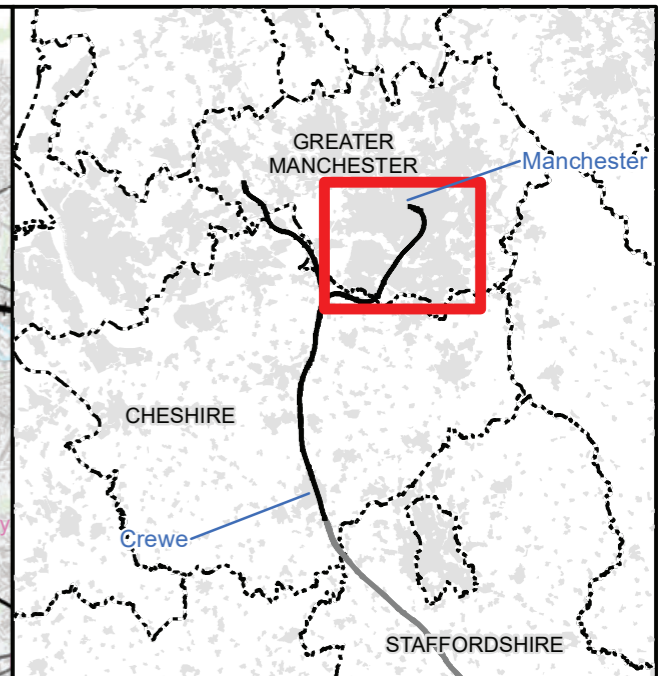
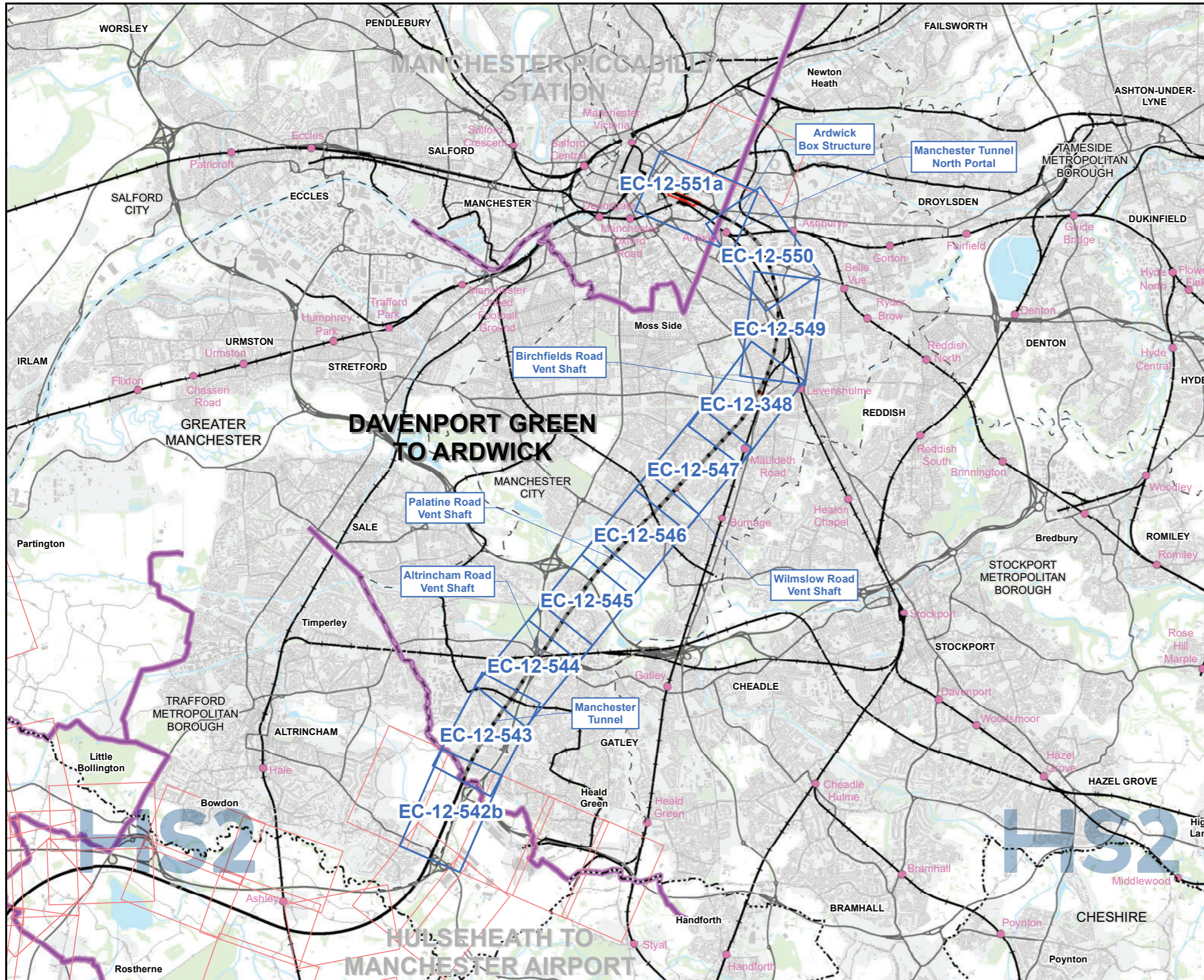
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Scale at A3: 1:5,000

0 50 100 150 200 Metres

Date: 09/09/21





**Map Series Information:**  
 This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.

**Main Map Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-12-INDEX-MA07
Map Name	Index Map of: Other Protected and Notable Species (2)
	Community Area MA07: Davenport Green to Ardwick

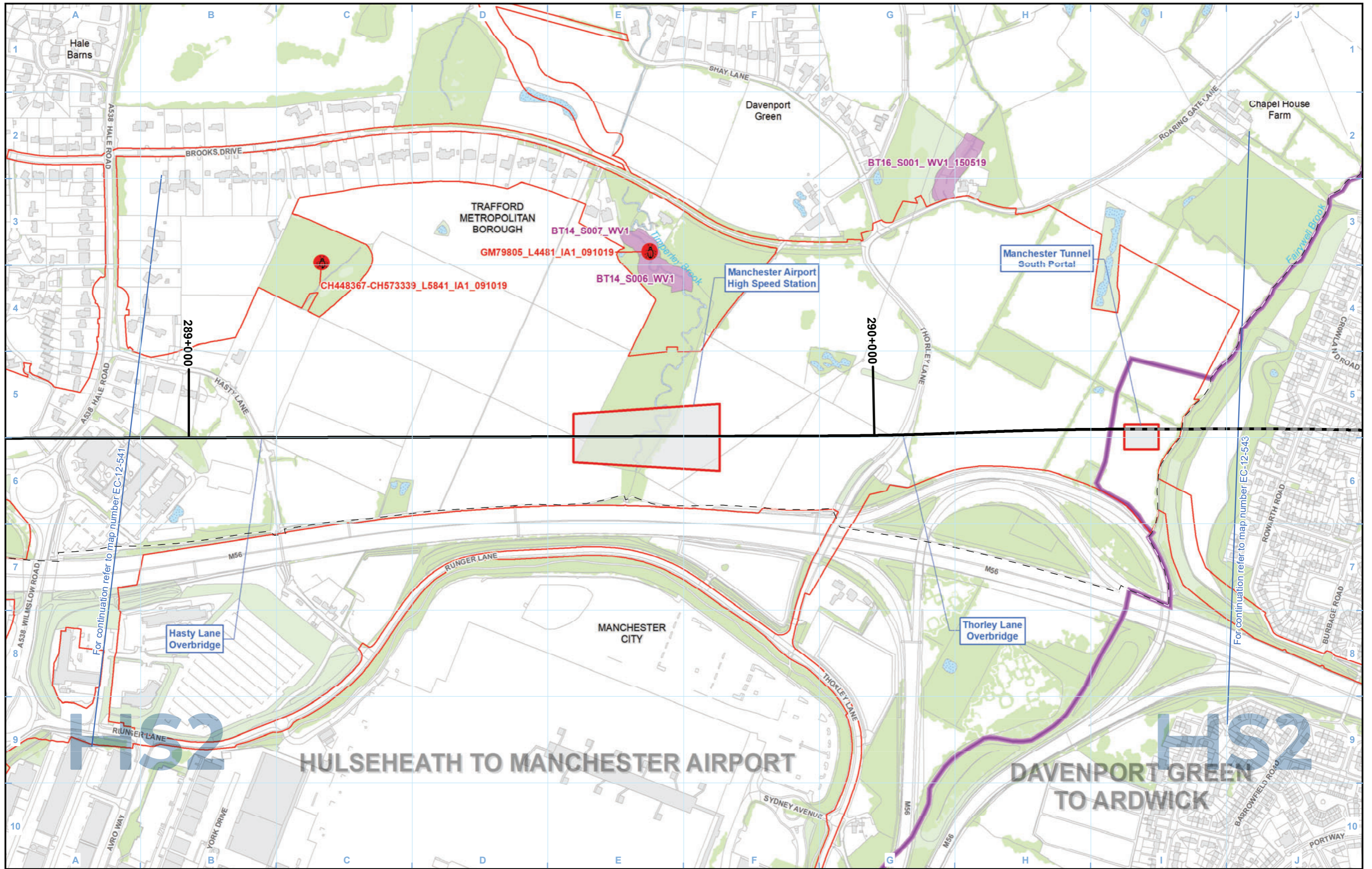
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001591-P01 Date: 05/08/21



Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-542b
Map Name	Other Protected and Notable Species (2)
	Community Area MA07: Davenport Green to Ardwick

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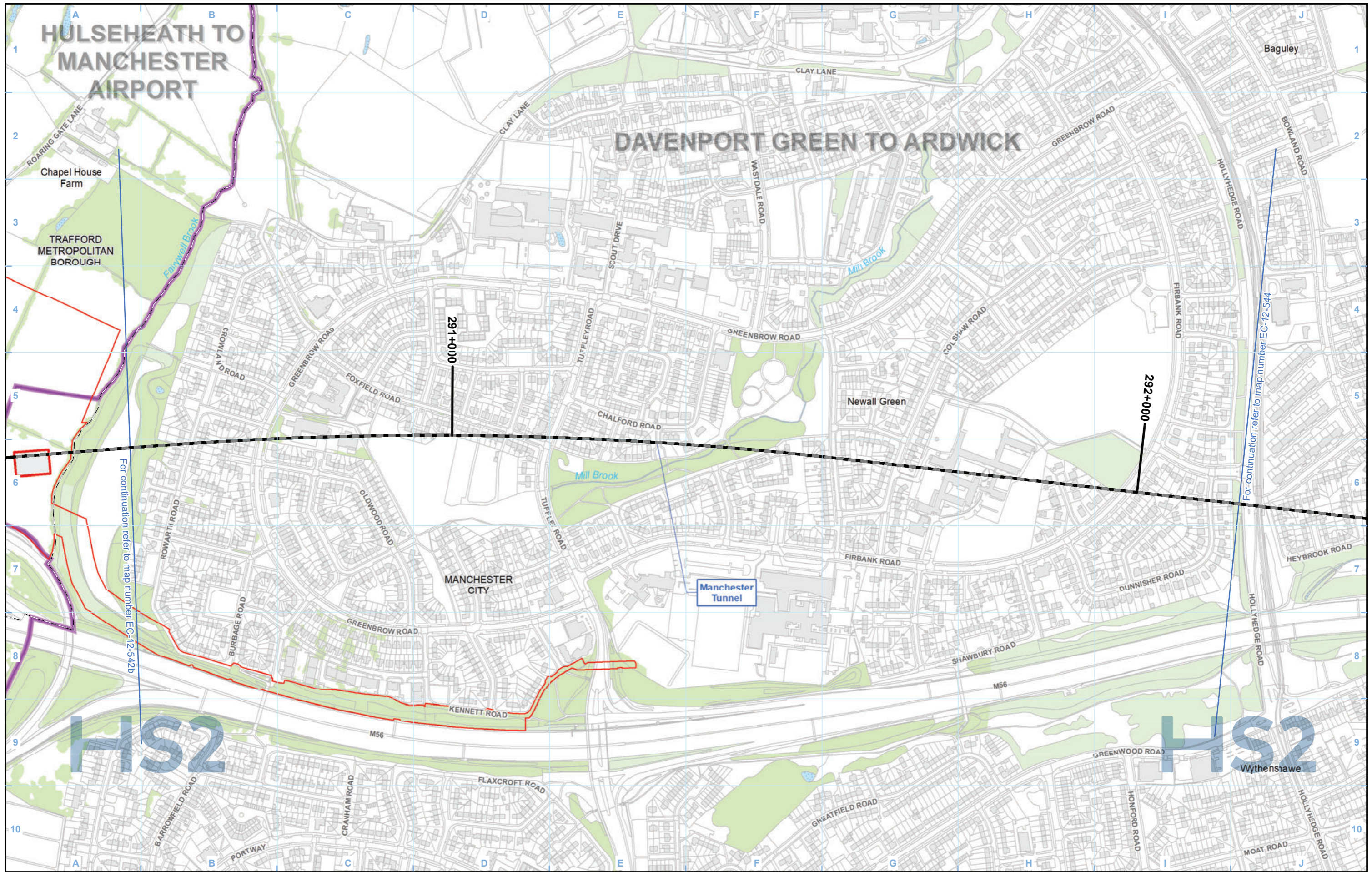
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001559-P01

Scale at A3: 1:5,000

Metres

Date: 10/08/21



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

**Water vole:**

- Water vole survey undertaken - presence confirmed
- Water vole survey undertaken - assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

Map Number: EC-12-543

Map Name: Other Protected and Notable Species (2)

Community Area MA07: Davenport Green to Ardwick

**HS2**

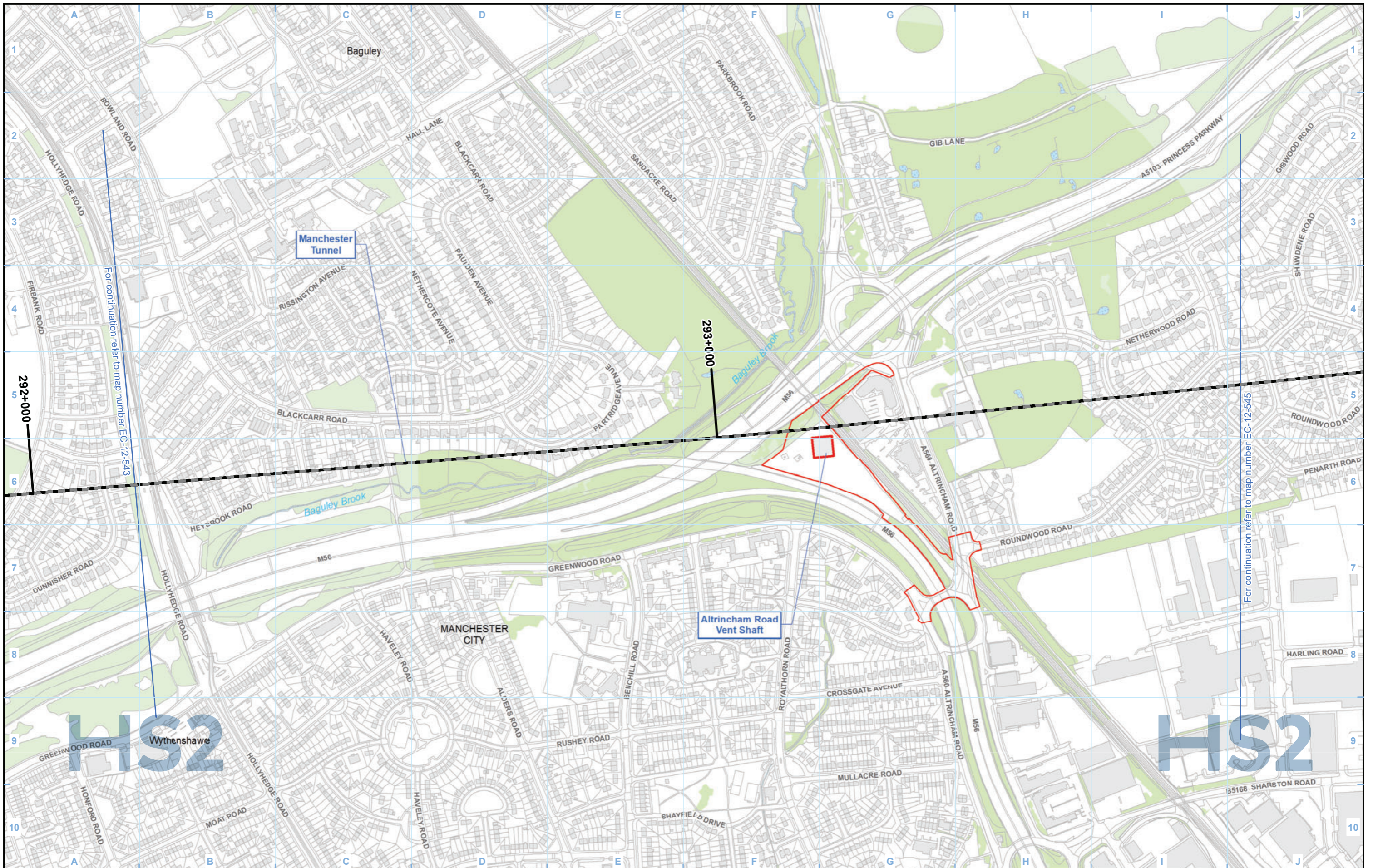
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001560-P01

Date: 10/08/21



- Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - County boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate survey location

- Water vole:**
- Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number  
**EC-12-544**

Map Name  
**Other Protected and Notable Species (2)**

Community Area MA07:  
Davenport Green to Ardwick

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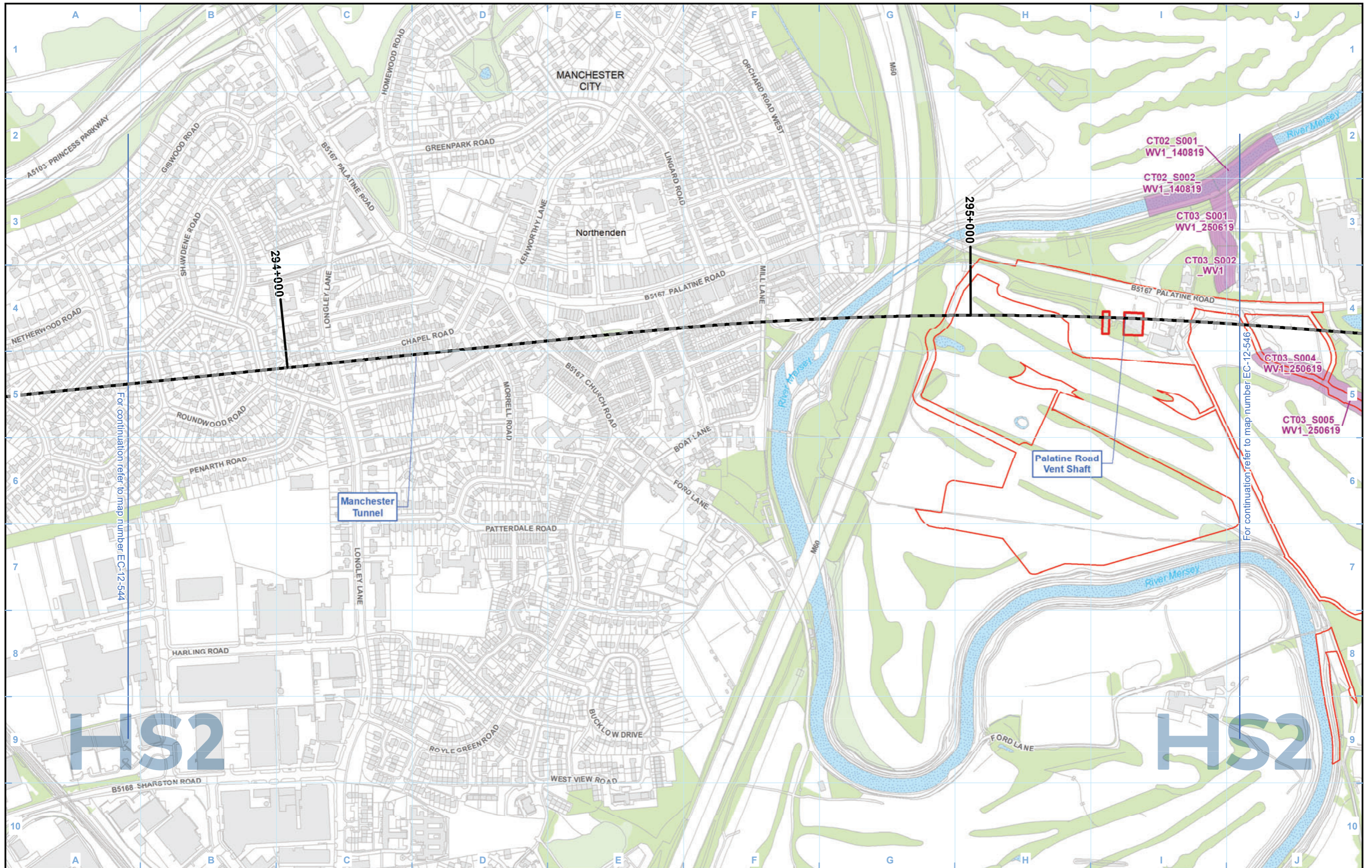
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Date: 10/08/21

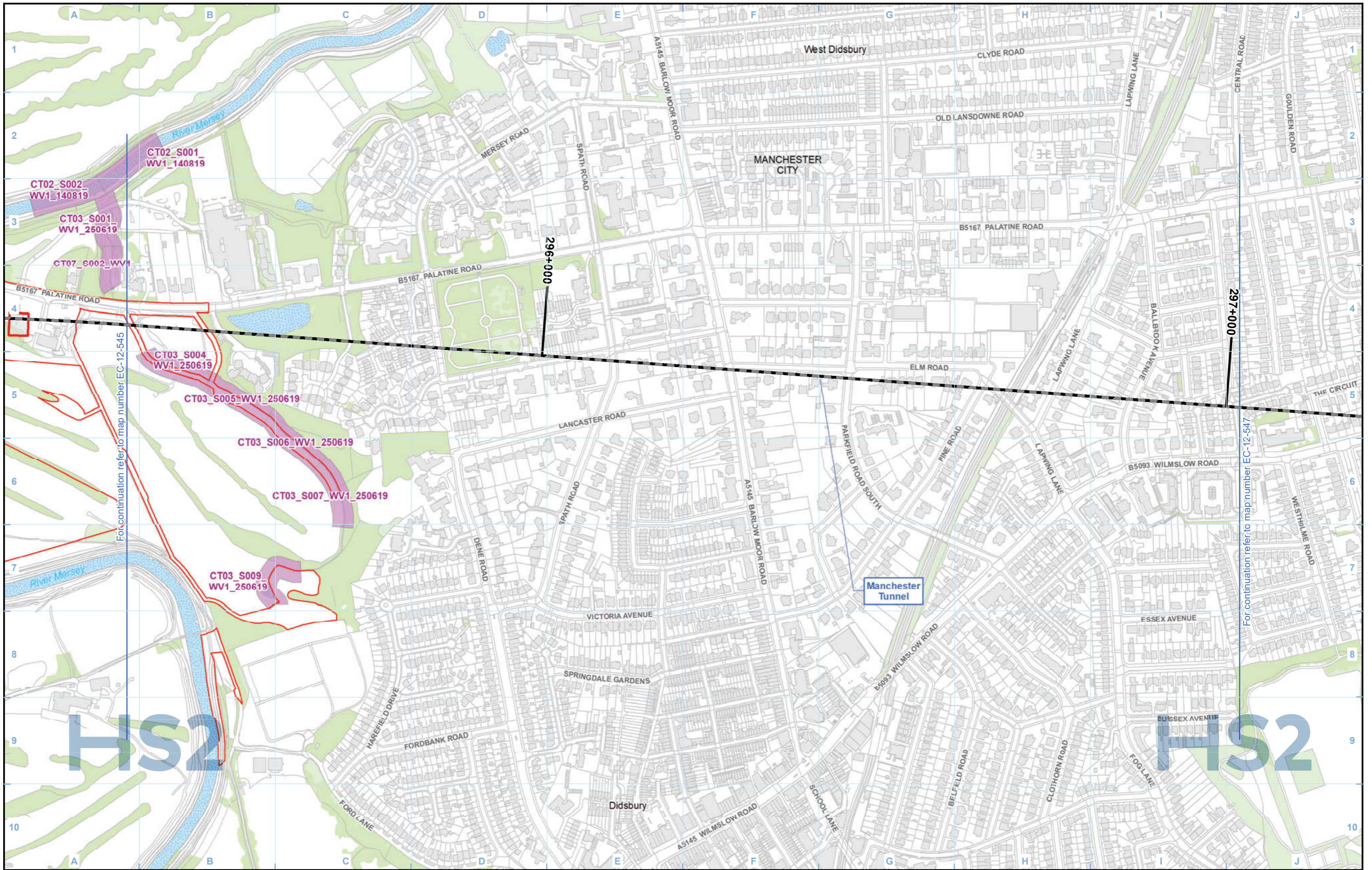
For continuation refer to map number EC-12-543

For continuation refer to map number EC-12-545





<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) <b>Aquatic invertebrate:</b> Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey	
<b>Map Number</b> EC-12-545 <b>Map Name</b> Other Protected and Notable Species (2) Community Area MA07: Davenport Green to Ardwick				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190 <b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-001562-P01 <b>Date:</b> 10/08/21	
		Scale at A3: 1:5,000 			



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Aquatic invertebrate survey location</li> </ul>	<p><b>Water vole:</b></p> <ul style="list-style-type: none"> <li> Water vole survey undertaken - presence confirmed</li> <li> Water vole survey undertaken - assumed absent</li> <li> Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul>	<p>Map Number: EC-12-546</p> <p>Map Name: Other Protected and Notable Species (2)</p> <p>Community Area MA07: Davenport Green to Ardwick</p>	<p><b>HS2</b></p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-001563-P01</p> <p>Date: 10/08/21</p> <p>Scale at A3: 1:5,000</p>
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For continuation refer to map number EC-12-545

For continuation refer to map number EC-12-547

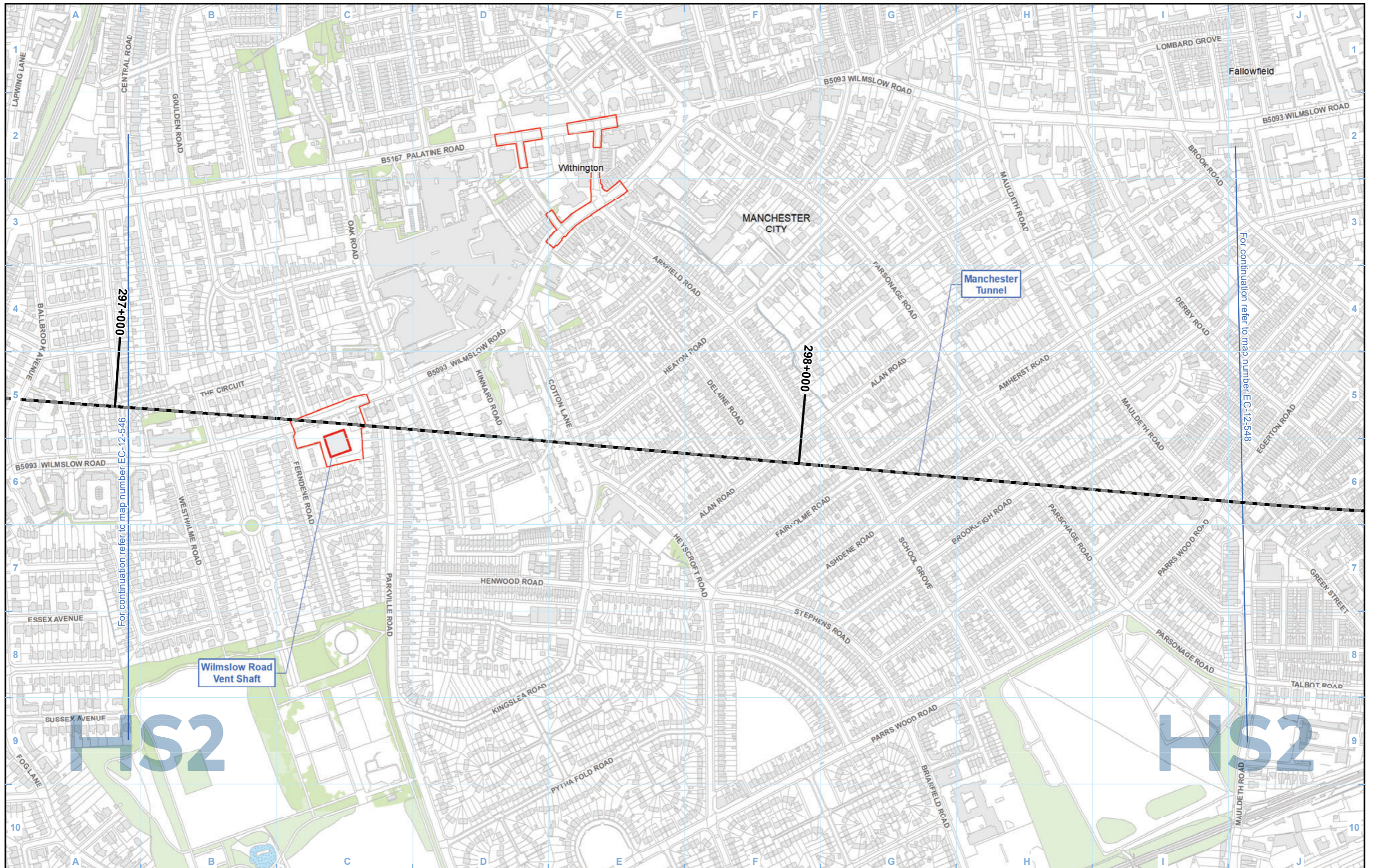
296+000

297+000

Manchester Tunnel

HS2

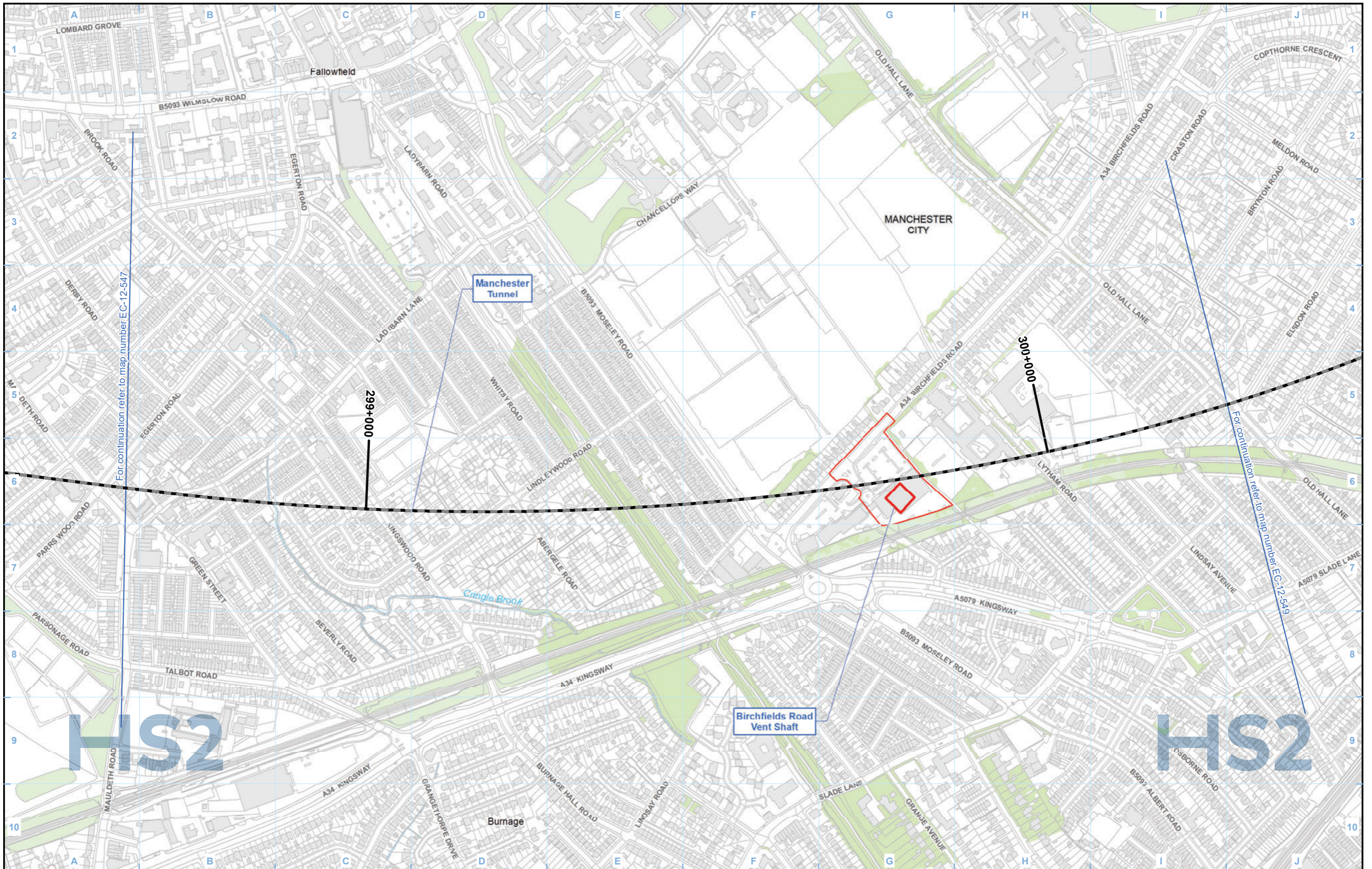
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For continuation refer to map number EC-12-546

For continuation refer to map number EC-12-548

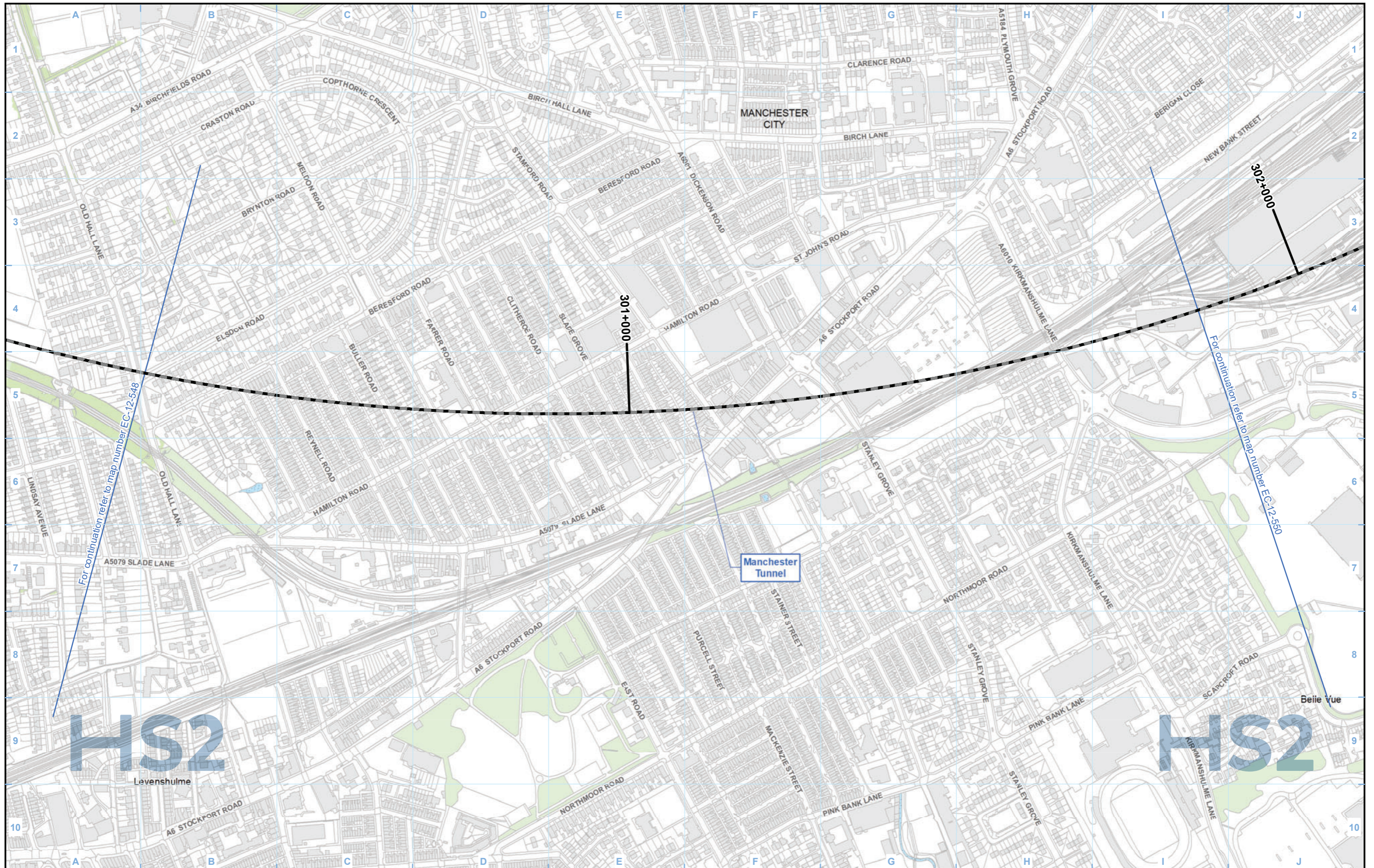
<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) <b>Aquatic invertebrate:</b> Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey	
Map Number <b>EC-12-547</b>				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA. © Crown copyright and database rights 2020 OS 100049190 <b>Doc Number:</b> 2DE01-MWJ-EV-MAP-M000-001564-P01	
Map Name <b>Other Protected and Notable Species (2)</b>		Scale at A3: 1:5,000 			
Community Area MA07: Davenport Green to Ardwick		<b>Date:</b> 10/08/21			



For continuation refer to map number EC-12-547

For continuation refer to map number EC-12-549

<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) <b>Aquatic invertebrate:</b> Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey	
<b>Map Number</b> EC-12-548				<small>Registered in England. Registration number 06791686.          Registered office: 2 Snowhill, Queensway,          Birmingham B4 6QA.</small>	
<b>Map Name</b> Other Protected and Notable Species (2)		<small>Scale at A3: 1:5,000</small> 		<small>© Crown copyright and database rights 2020          OS 100049190</small>	
<b>Community Area MA07:</b> Davenport Green to Ardwick		<small>Doc Number: 2DE01-MWJ-EV-MAP-M000-001565-P01</small>		<small>Date: 10/08/21</small>	



Legend		
	Route in tunnel	
	Route on surface	
	Depot, station, headhouse or portal building	
	Land potentially required during construction	
	Community area boundary	
	County boundary	
	District/Borough boundary	
	Watercourse	
	Water body	
	Woodland (verified by survey)	
	Aquatic invertebrate survey location	
	Water vole survey undertaken - presence confirmed	
	Water vole survey undertaken - assumed absent	
	Watercourse potentially suitable for water vole - no or limited access for survey	

Map Number	EC-12-549
Map Name	Other Protected and Notable Species (2)
	Community Area MA07: Davenport Green to Ardwick

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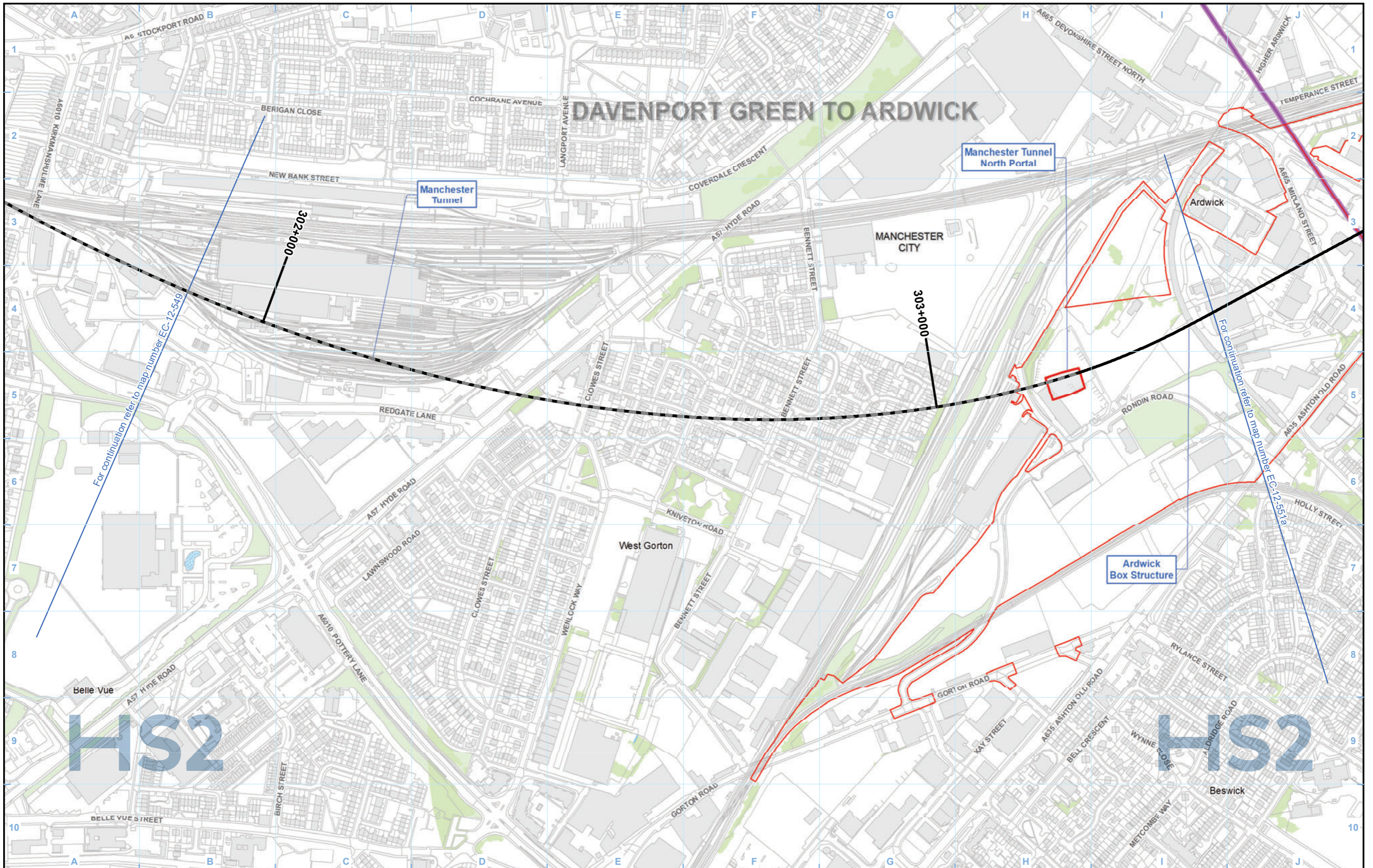
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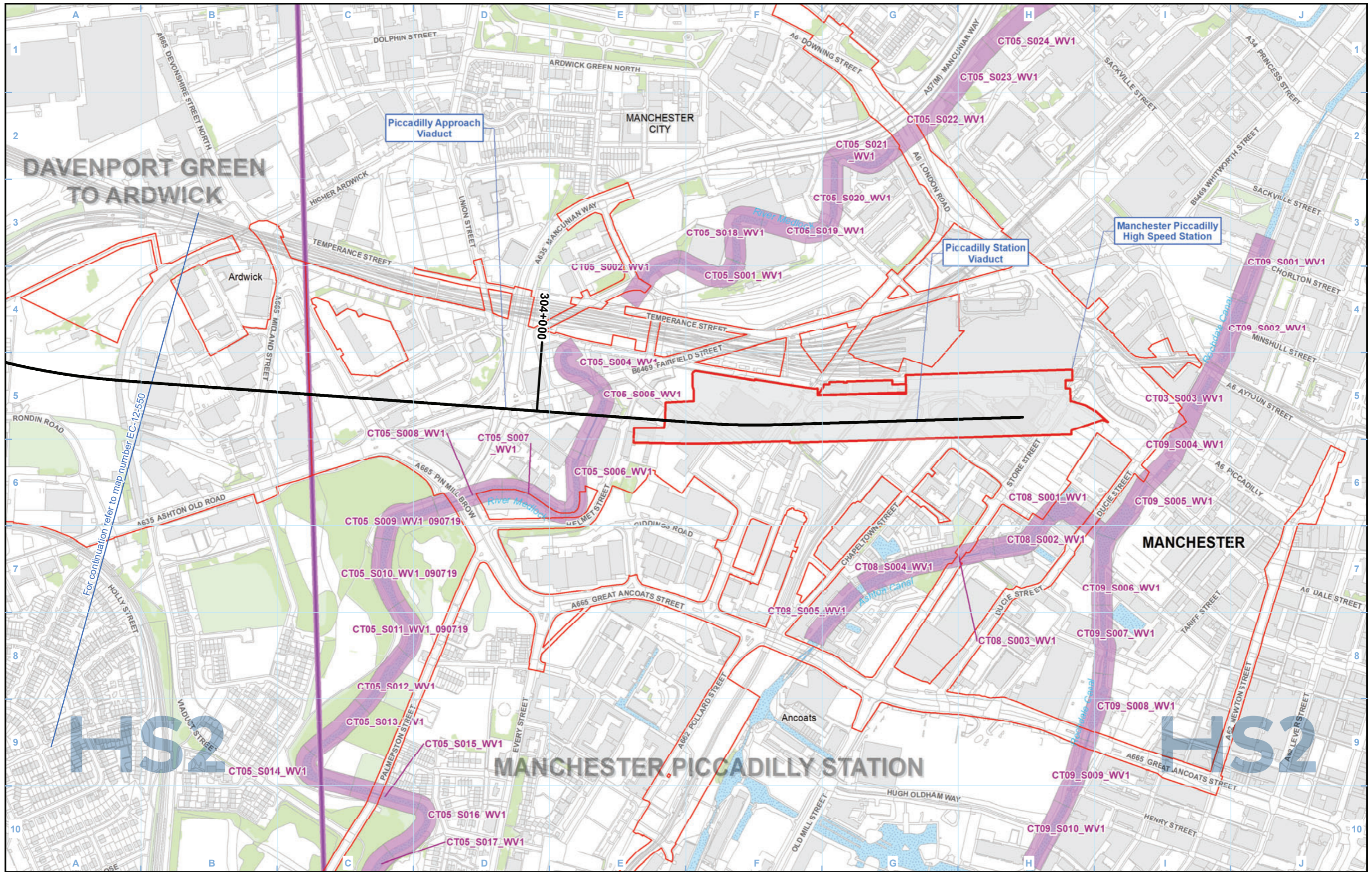
Metres

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<b>Legend</b> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey) Aquatic invertebrate survey location		<b>Water vole:</b> Water vole survey undertaken - presence confirmed Water vole survey undertaken - assumed absent Watercourse potentially suitable for water vole - no or limited access for survey		Map Number <b>EC-12-550</b>	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Scale at A3: 1:5,000</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-001567-P01</p>
<b>Map Name</b> <b>Other Protected and Notable Species (2)</b>		<b>Community Area MA07:</b> <b>Davenport Green to Ardwick</b>		<b>Date:</b> 10/08/21			



**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate survey location
- Aquatic invertebrate
- Water vole:
  - Water vole survey undertaken - presence confirmed
  - Water vole survey undertaken - assumed absent
  - Watercourse potentially suitable for water vole - no or limited access for survey

Map Number: EC-12-551a

Map Name: Other Protected and Notable Species (2)

Community Area MA07: Davenport Green to Ardwick

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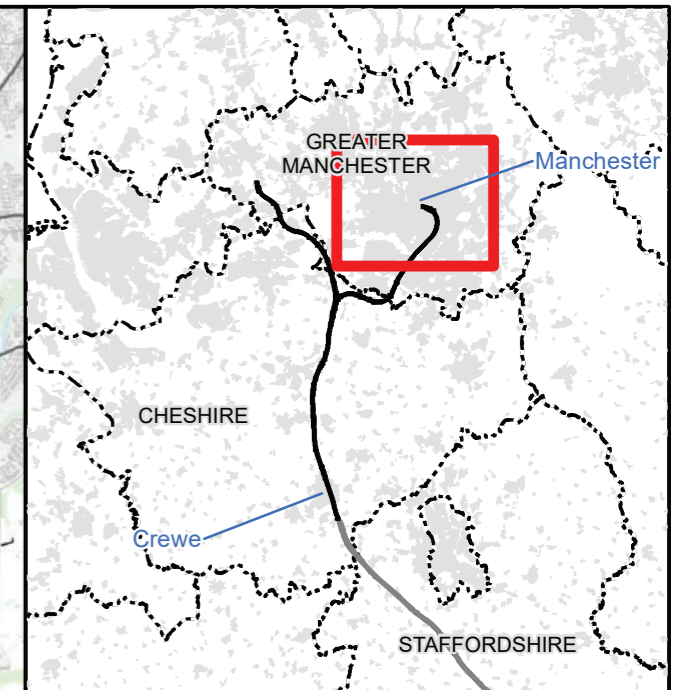
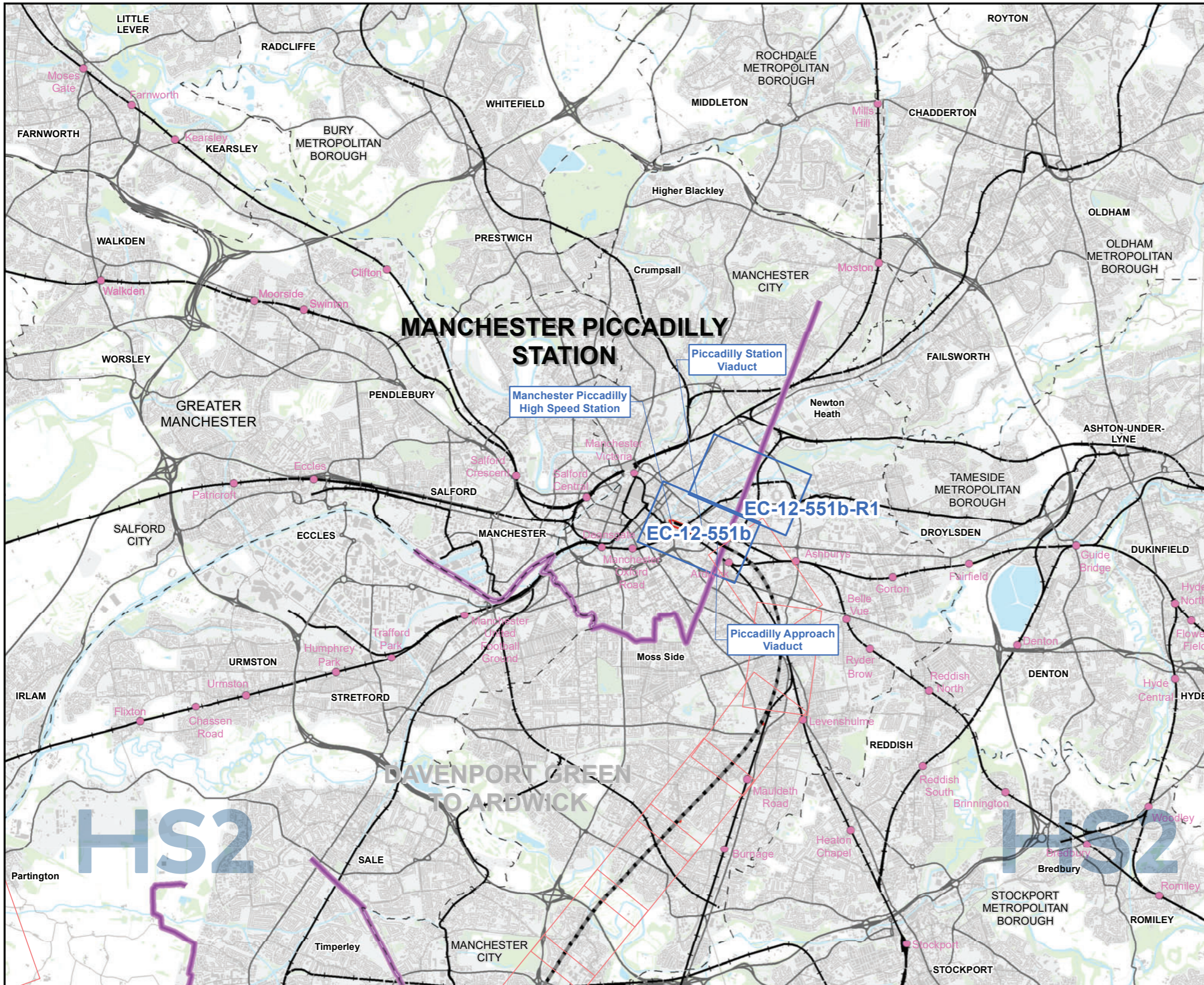
Date: 10/08/21

Scale at A3: 1:5,000

Metres

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### Map Series Information:

This map series shows the extent of various protected species surveys conducted to inform the Environmental Statement.


#### Main Map Legend

-  Route in tunnel
-  Route on surface
-  Depot, station, headhouse or portal building
-  Community area boundary
-  Existing railway station
-  County boundary
-  District/Borough boundary
-  Map sheets included in this community area
-  Map sheets not included in this community area

Map Number **EC-12-INDEX-MA08**

Map Name  
Index Map of:  
Other Protected and Notable Species (2)


Community Area MA08:  
Manchester Piccadilly Station



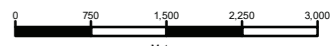
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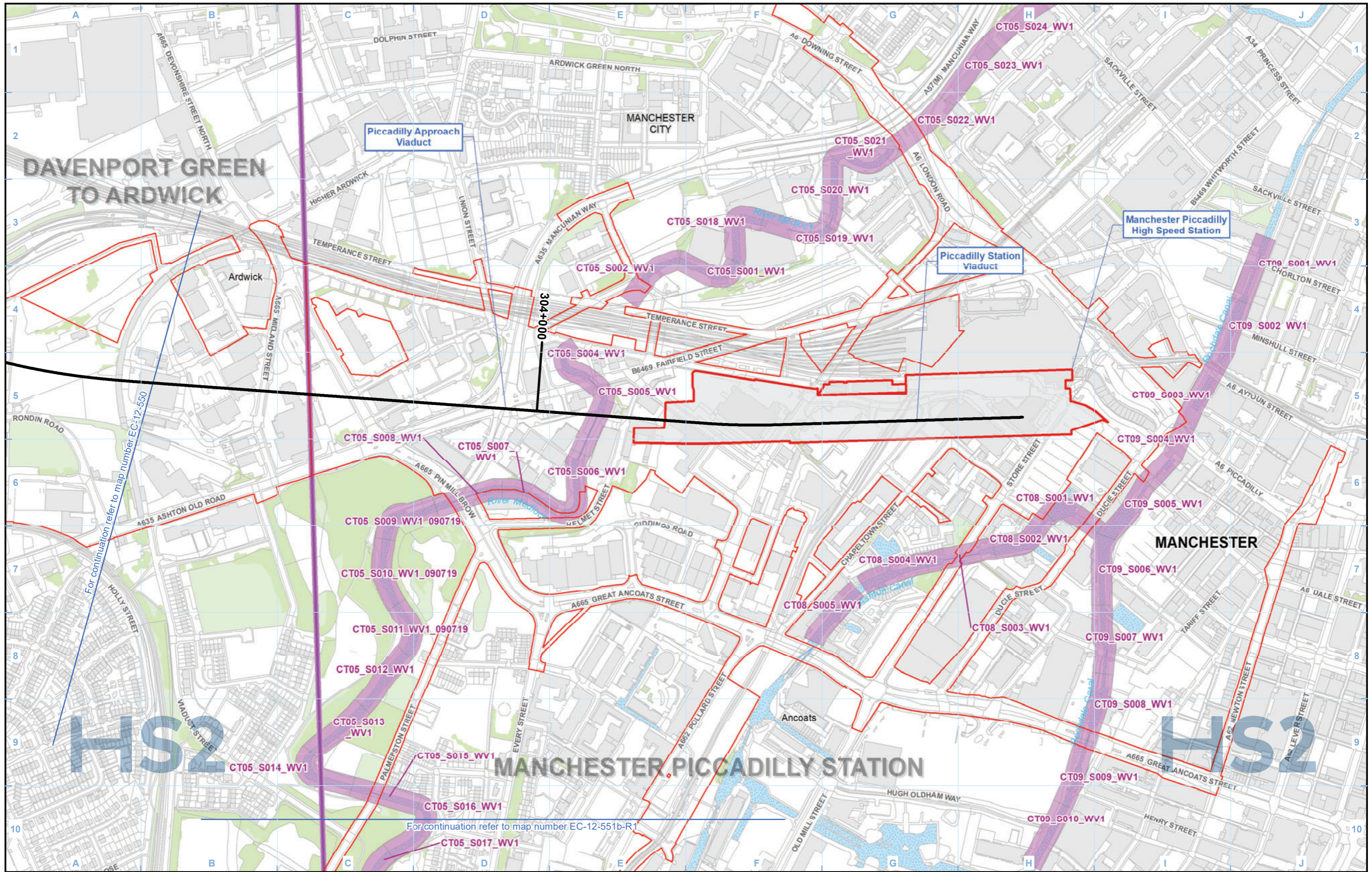


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Note: Not all data layers in the legend are represented on every map.



Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Aquatic invertebrate survey location
	Community area boundary		Water vole survey undertaken - presence confirmed
	County boundary		Water vole survey undertaken - assumed absent
	District/Borough boundary		Watercourse potentially suitable for water vole - no or limited access for survey

Map Number	EC-12-551b
Map Name	Other Protected and Notable Species (2)
	Community Area MA08: Manchester Piccadilly Station

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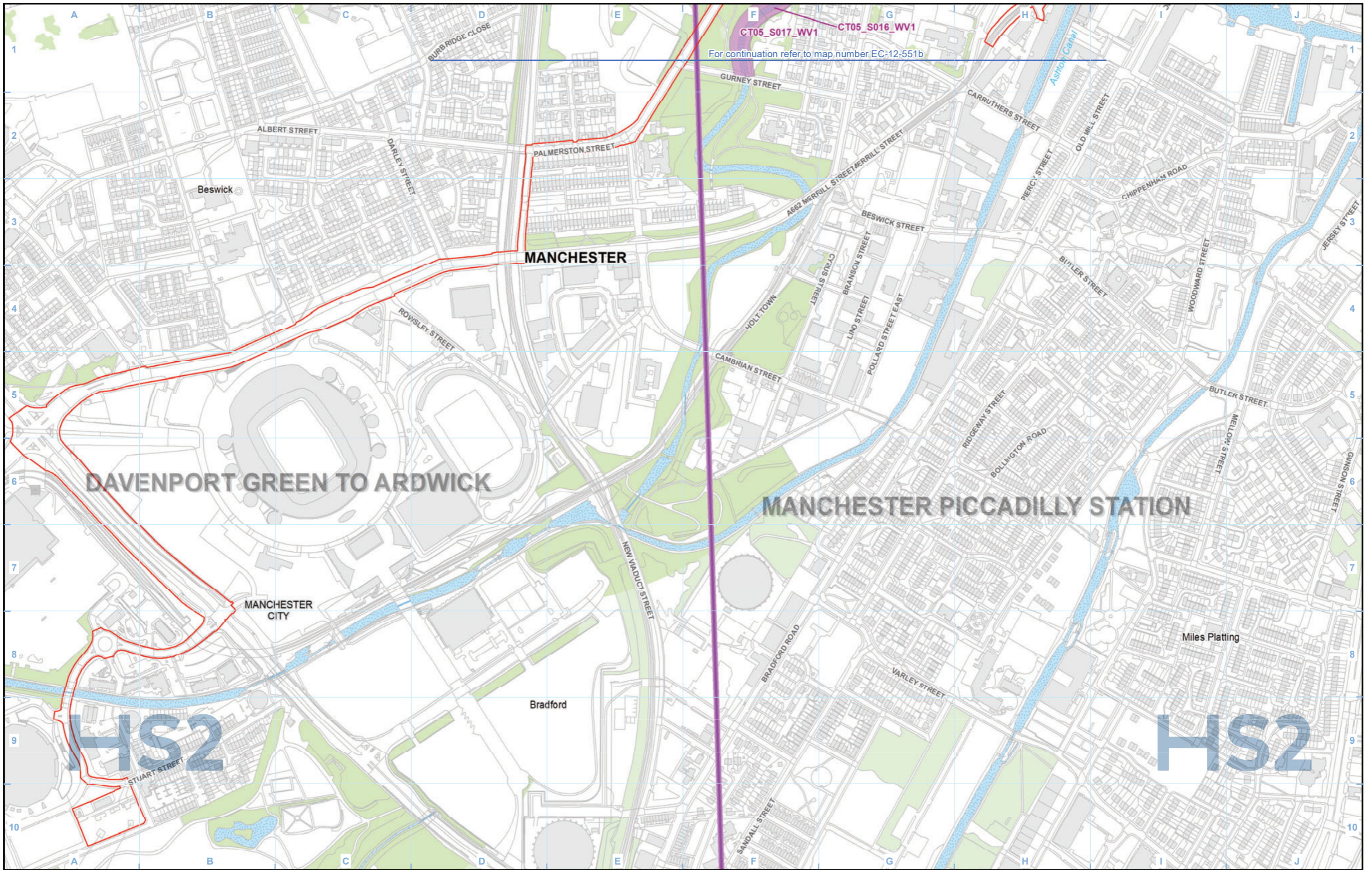
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Date: 10/08/21



CT05\_S017\_WV1 CT05\_S016\_WV1  
 For continuation refer to map number EC-12-551b

Legend		
		<b>Water vole:</b>
	<b>Aquatic invertebrate:</b>	

Map Number	EC-12-551b-R1
Map Name	Other Protected and Notable Species (2)
	Community Area MA08: Manchester Piccadilly Station

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