

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Volume 5: Map Book

Air quality (AQ-01)

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Volume 5: Map Book

Air quality (AQ-01)



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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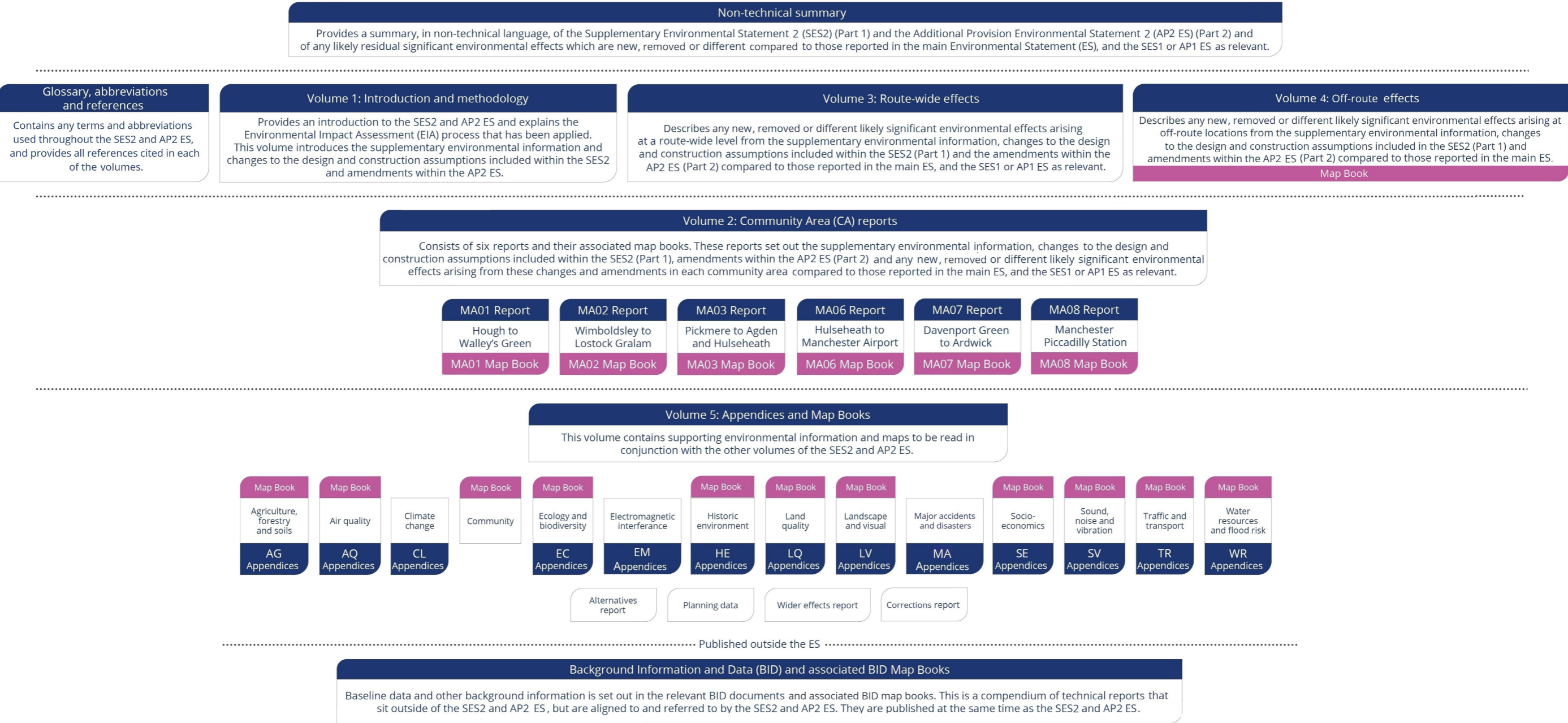
Data dictionary and definitions

Map series name	AQ-01 - Air Quality Monitoring Locations and Receptors
Map series description	These maps show the location of local air quality monitoring locations, management areas and receptors used in the construction/operational traffic assessments in relation to the proposed scheme.
Community Area name	
MA01 Hough to Walley's Green	✓
MA02 Wimboldsley to Lostock Gralam	✓
MA03 Pickmere to Agden and Hulseheath	✓
MA04 Broomedge to Glazebrook	✓
MA05 Risley to Bamfurlong	✓
MA06 Hulseheath to Manchester Airport	✓
MA07 Davenport Green to Ardwick	✓
MA08 Manchester Piccadilly Station	✓
ORW1 Preston Station (PSTN)	
ORW2 Carlisle Station (CSTN)	
ORW3 Annandale Depot (ADEP)	

Mapping explanatory notes

Structure of the Supplementary Environmental Statement 2 and the Additional Provision 2 Environmental Statement

This map book is part of the suite of documents that make up the Supplementary Environmental Statement 2 (SES2) and the Additional Provision 2 Environmental Statement (AP2 ES) for the High Speed Rail (Crewe – Manchester) scheme. The SES2 and the AP2 ES are separate documents; however, they are bound together and presented in a number of volumes shown in the figure below.



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 SES2 and AP2 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 SES2 and AP2 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 dependent 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 sheet layout

Each map in Volume 2 is presented twice, with the main ES map (In Parliament - Session 2021 - 2022) on the left-hand page and the SES2 and the AP2 ES map on the right. For the CT-05 and CT-06 map series, the SES2 and the AP2 ES is shown with different coloured hatching, annotated with labels, which highlights the areas of change. The coloured text box provides a brief description of the design change and amendment, and gives the SES2 and the AP2 ES reference number. In some instances where the effect covers a large area, a box without hatching but with a label, is shown. Only maps which have been amended as a result of the SES2 and the AP2 ES are included within the map books. Other design changes which are within the existing limits of the Bill and do not result in new or different likely significant effects are also shown on the maps, but are not indicated by hatching.

Each Volume 5 map is annotated to describe the change to a receptor or significant effect, and to give the SES2 and the AP2 ES reference number. For more detailed information about the SES2 and the AP2 ES annotation, refer to the map series legend. Only maps which have been amended as a result of the SES2 and the AP2 ES are included within the map book. Changes to receptors or significant effects relating to SES1 or AP1 ES are also provided for reference. Where this is the case they are shown in a faded box.

Where a significant effect has been changed due to a correction to mapping produced in the main ES or previous SES/AP, the significant effect reference is suffixed with a double asterisk (**). The map now shows the correct effect.

Map orientation

The majority of 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 Manchester to the right.

The exception to this, are map series LV-00, LV-02, LV-07 and LV-08, which present the alignment running from bottom to top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and Manchester to the top.

Further details on the approach to mapping is set out in Section 6 of Volume 1 of the SES2 and AP2 ES.

Map books

In total, there are 19 map books included in the SES2 and AP2 ES Volume 2, Volume 4 and Volume 5. A list of the map book titles and map series is provided below for reference.

Map book title (map series)	Map book title (map series)
Volume 2: Map Book – MA01: Hough to Walley’s Green (CT-05, CT-06, CT-10, LV-03, SV-05)	Volume 5: Map Book – Planning Data / Committed Developments (CT-13)
Volume 2: Map Book – MA02: Wimboldsley to Lostock Gralam (CT-05, CT-06, CT-10, LV-03, SV-05)	Volume 5: Map Book – Ecology and biodiversity (EC-01)
Volume 2: Map Book – MA03: Pickmere to Agden and Hulseheath (CT-05, CT-06, CT-10, LV-03, LV-04, SV-05)	Volume 5: Map Book – Historic environment (HE-01, HE-02)
Volume 2: Map Book – MA06: Hulseheath to Manchester Airport (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04, SV-05)	Volume 5: Map Book – Land quality (LQ-01)
Volume 2: Map Book – MA07: Davenport Green to Ardwick (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04)	Volume 5: Map Book – Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map Book – MA08: Manchester Piccadilly Station (CT-05, CT-06, CT-10, LV-03, LV-04, SV-05)	Volume 5: Map Book – Socio-economics (SE-01)
Volume 4: Off-route effects map book	Volume 5: Map Book – Sound, noise and vibration (SV-02, SV-03, SV-08, SV-09)
Volume 5: Map Book – Agriculture, forestry and soils (AG-01, AG-04)	Volume 5: Map Book – Traffic and transport (TR-01, TR-03, TR-04, TR-08)
Volume 5: Map Book – Air quality (AQ-01)	Volume 5: Map Book – Water resources and flood risk (WR-01, WR-03, WR-05, WR-06)
Volume 5: Map Book – Community (CM-01)	

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
Air quality modelling receptors (construction)	Air quality modelled receptors.	High Speed Two (HS2) Ltd	
Air quality modelling receptors (operation)	Air quality modelled receptors.	High Speed Two (HS2) Ltd	
Airport	Airport location derived from Ordnance Survey Vector map data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Community area boundary	The Environmental Statement has been split into sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Continuous monitoring location	Local authority or Defra air quality monitoring location using a continuous monitor.	High Speed Two (HS2) Ltd	
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 2021.
DEFRA Air Quality Management Areas 2022 (AQMA)	<p>Since December 1997 each Local Authority in the UK has been carrying out a review and assessment of air quality in their area. This involves measuring air pollution and trying to predict how it will change in the next few years. The aim of the review is to make sure that the national air quality objectives will be achieved throughout the UK by the relevant deadlines. These objectives have been put in place to protect people's health and the environment.</p> <p>If a Local Authority finds any places where the objectives are not likely to be achieved, it must declare the location as an Air Quality Management Area. This area may extend for one or two streets, or it could be a much wider area.</p>	Department Environment Food and Rural Affairs (Defra)	© Crown 2022 copyright Defra via uk-air.defra.gov.uk .
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	
Diffusion tube monitoring location	Local authority air quality monitoring location using diffusion tubes.	High Speed Two (HS2) Ltd	Licensed under the Open Government Licence (OGL).

Legend features	Definition	Source	Copyright
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Existing railway line	Existing railway stations derived from Ordnance Survey Vector map data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
Existing railway station	Existing railway stations derived from Ordnance Survey Vector map data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
HS2 monitoring location	Air quality monitoring location for the Proposed Scheme using diffusion tubes.	High Speed Two (HS2) Ltd	
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 2022.
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 2022.
Woodland	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2022.

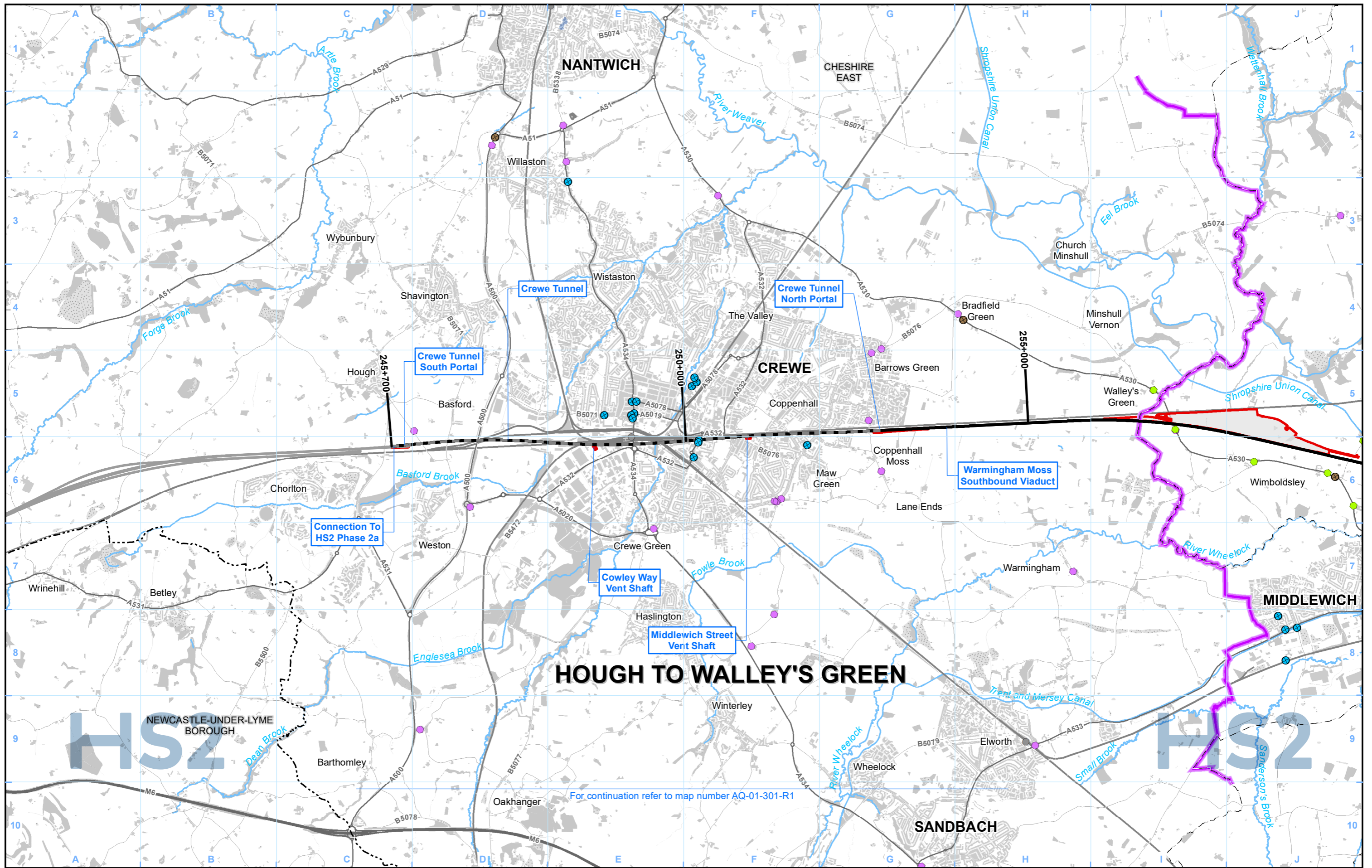
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA01: Hough to Walley's Green

AQ-01 – Air Quality Monitoring Locations and Receptors



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Existing railway station
- Existing rail line tunnel
- Airport
- Defra Air Quality Management Areas 2022 (AQMA)
- Diffusion tube monitoring location
- Continuous monitoring location
- HS2 monitoring location
- Air quality modelling receptors (construction)
- Air quality modelling receptors (operation)

Map Number: **AQ-01-301**

Map Name: **Air Quality Monitoring Locations and Receptors SES2 and AP2 ES**

Community Area MA01: **Hough to Walley's Green**

HS2

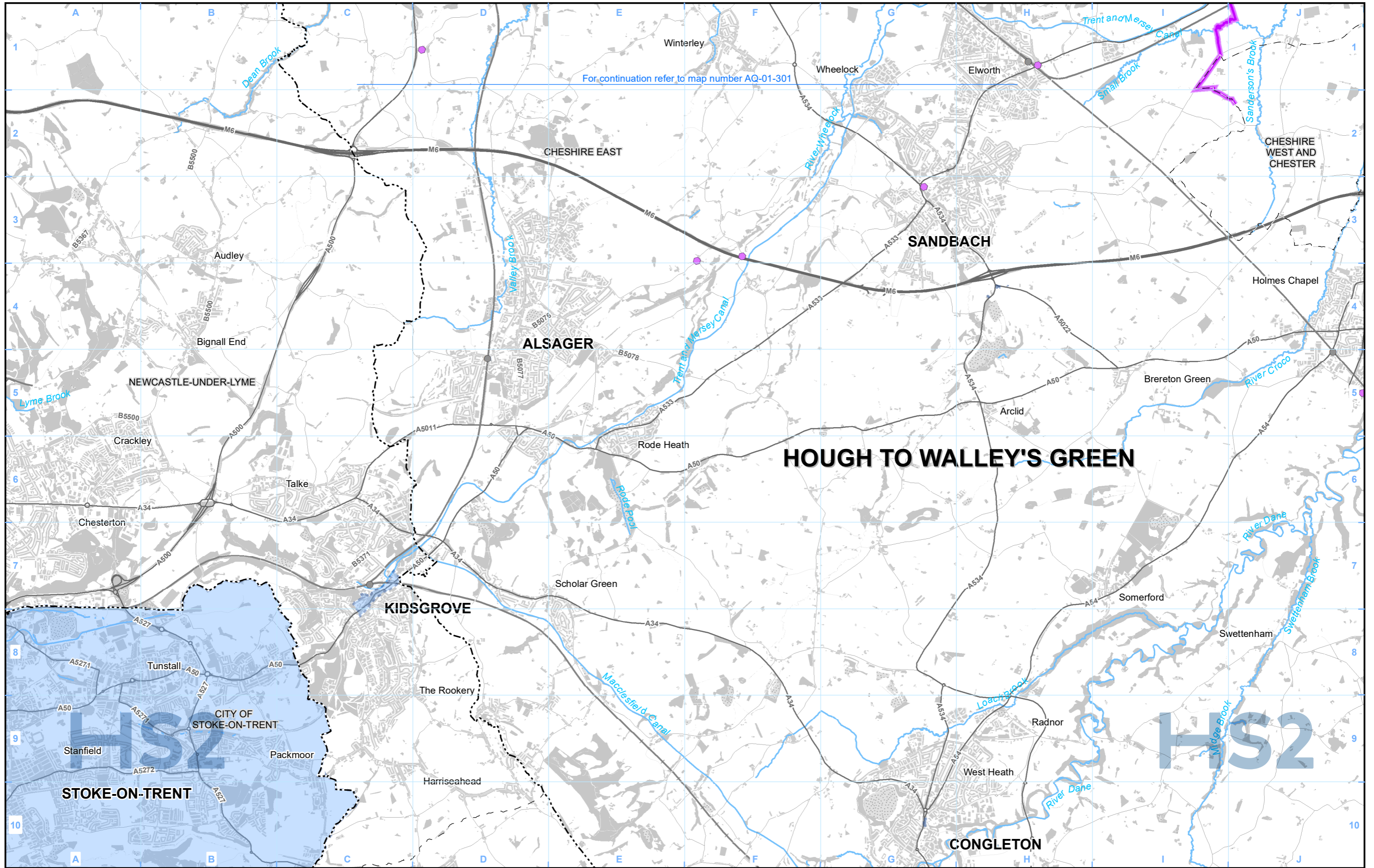
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For continuation refer to map number AQ-01-301

HOUGH TO WALLEY'S GREEN

Legend		

Map Number	AQ-01-301-L1
Map Name	Air Quality Monitoring Locations and Receptors SES2 and AP2 ES
Community Area MA01: Hough to Walley's Green	

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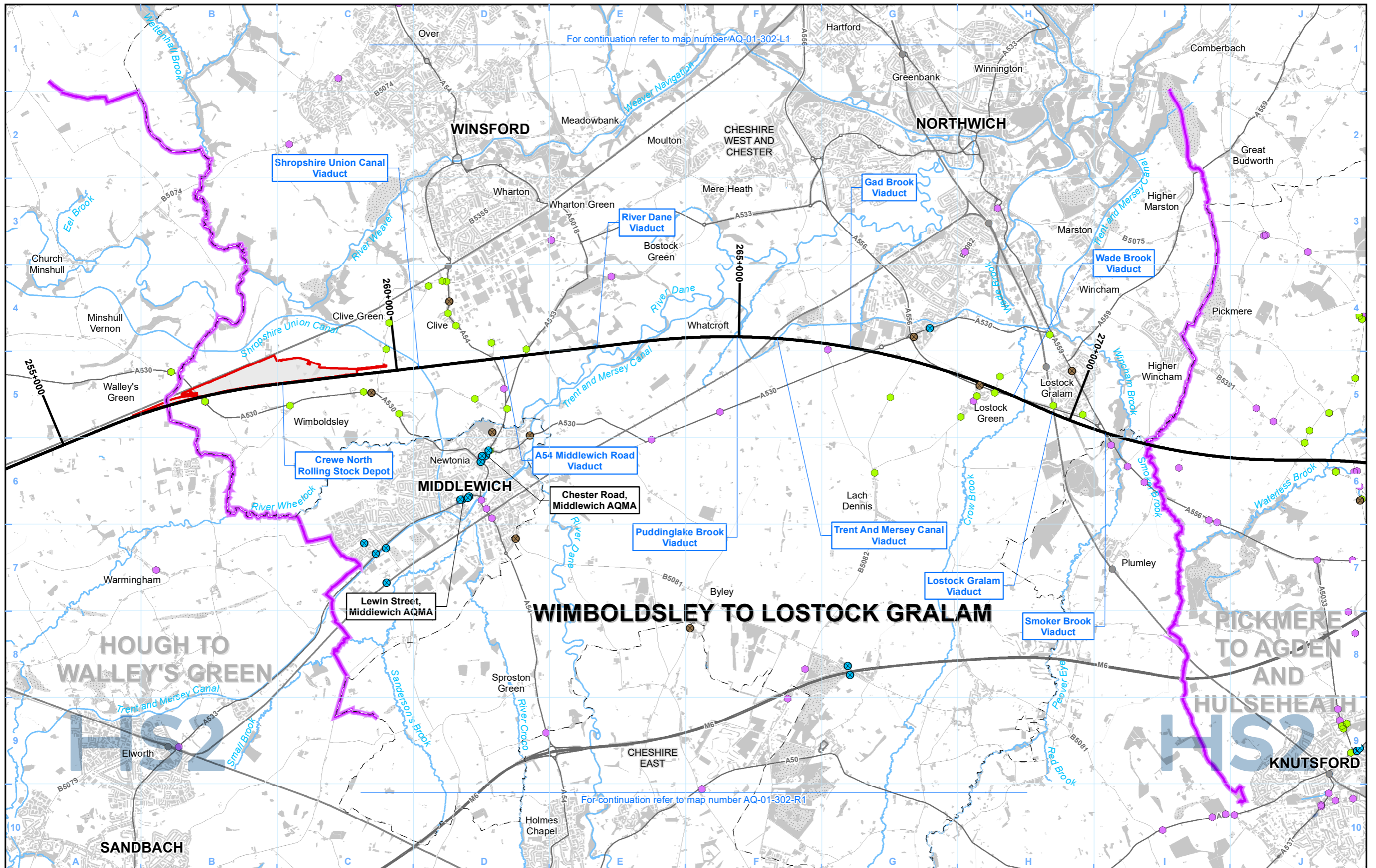
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA02: Wimboldsley to Lostock Gralam

AQ-01 – Air Quality Monitoring Locations and Receptors



Legend			
	Route in tunnel		Watercourse
	Route on surface		Defra Air Quality Management Areas 2022 (AQMA)
	Depot, station, headhouse or portal building		Diffusion tube monitoring location
	Community area boundary		Continuous monitoring location
	County boundary		HS2 monitoring location
	District/Borough boundary		Air quality modelling receptors (construction)
	Water body		Air quality modelling receptors (operation)
	Woodland		Existing railway station
	Existing rail line tunnel		Airport

Map Number	AQ-01-302
Map Name	Air Quality Monitoring Locations and Receptors SES2 and AP2 ES
Community Area MA02: Wimboldsley to Lostock Gralam	

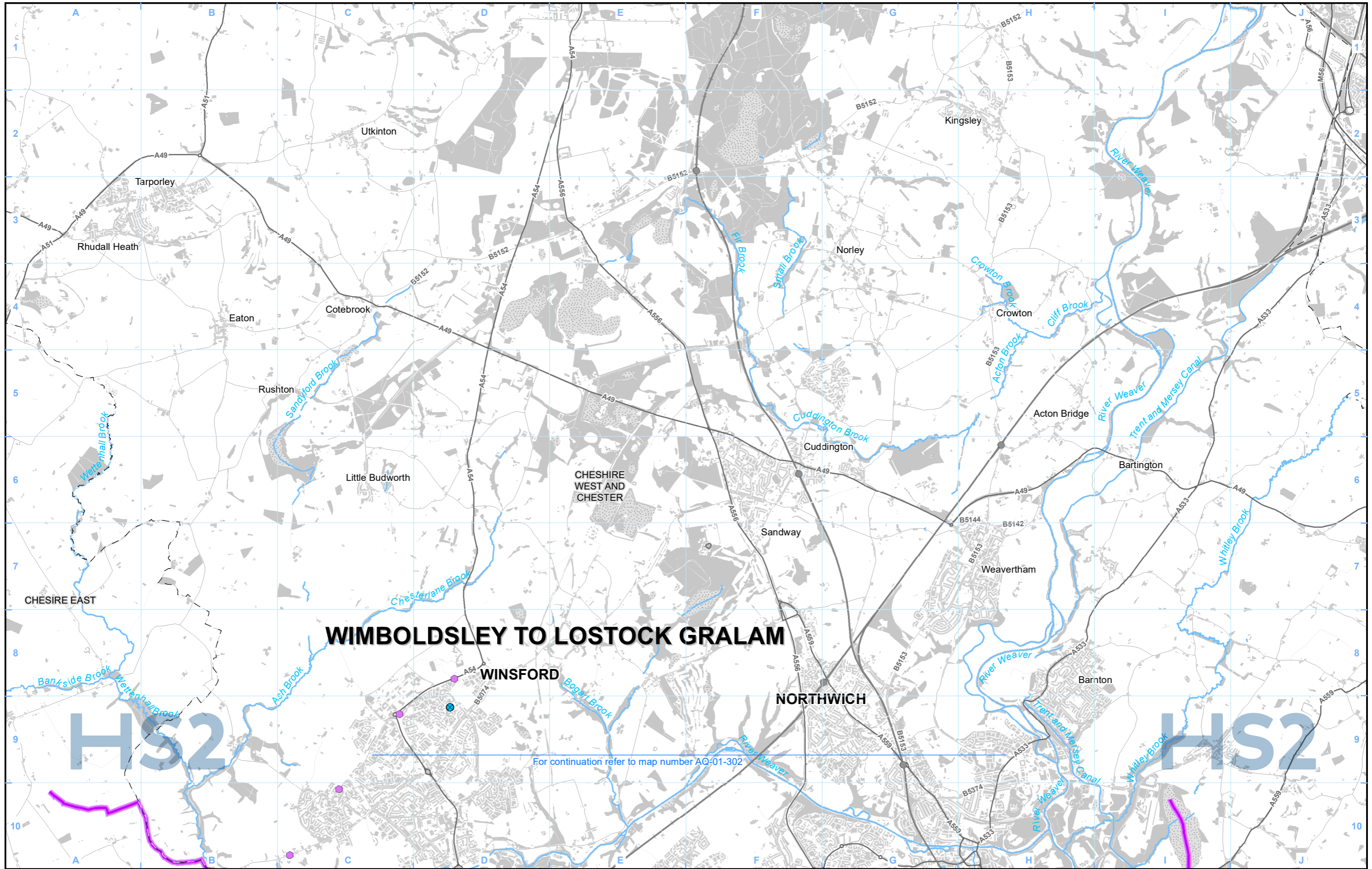
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WIMBOLDSLEY TO LOSTOCK GRALAM

WINSFORD

NORTHWICH

For continuation refer to map number AQ-01-302

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

- Watercourse
- Water body
- Woodland
- Existing railway station
- Existing rail line tunnel
- Airport

- Defra Air Quality Management Areas 2022 (AQMA)
- Diffusion tube monitoring location
- Continuous monitoring location
- HS2 monitoring location
- Air quality modelling receptors (construction)
- Air quality modelling receptors (operation)

Map Number	AQ-01-302-L1
Map Name	Air Quality Monitoring Locations and Receptors SES2 and AP2 ES
Community Area MA02: Wimboldsley to Lostock Gralam	

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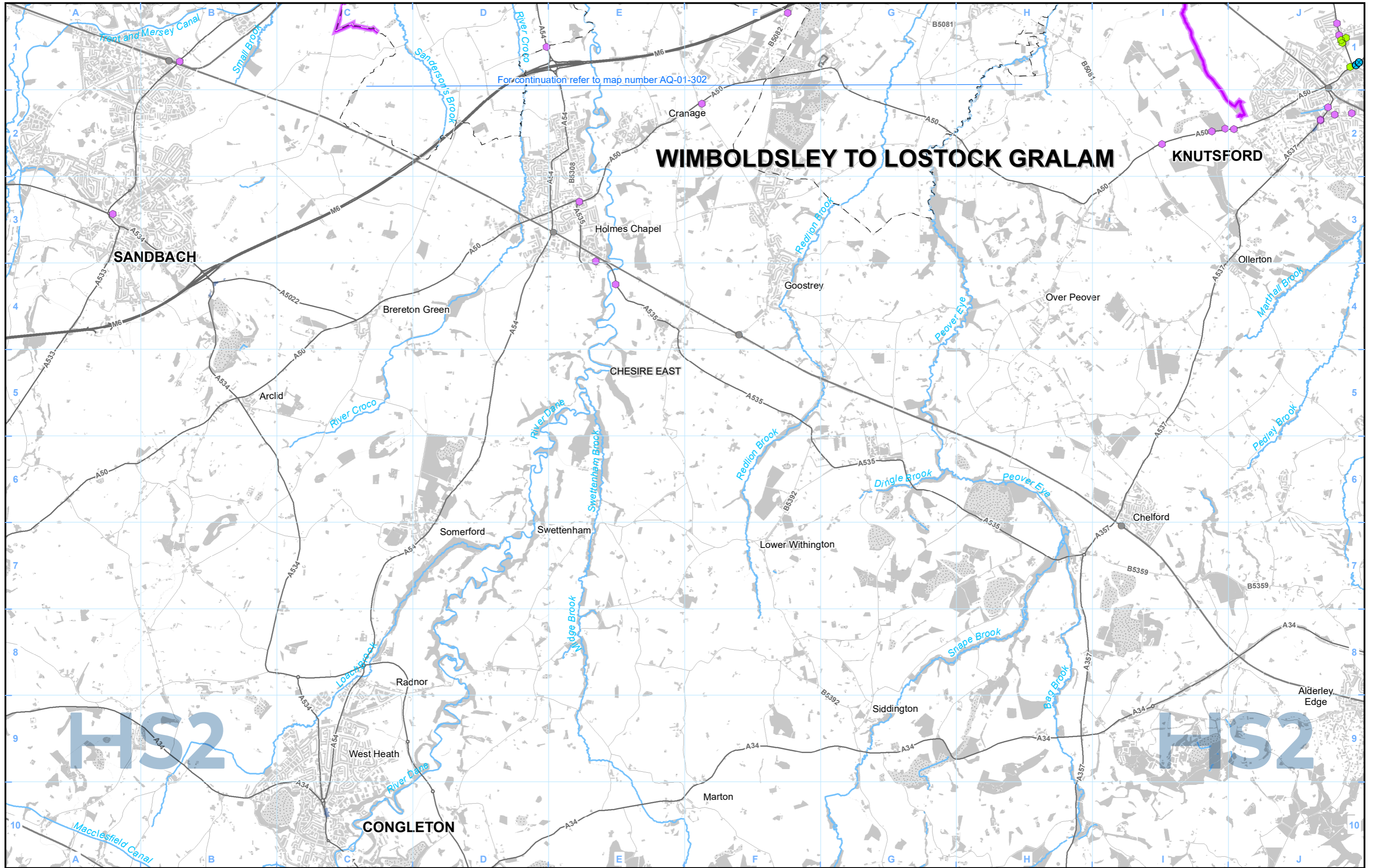
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For continuation refer to map number AQ-01-302

WIMBOLDSLEY TO LOSTOCK GRALAM

KNUTSFORD

SANDBACH

CONGLETON

CHESHIRE EAST

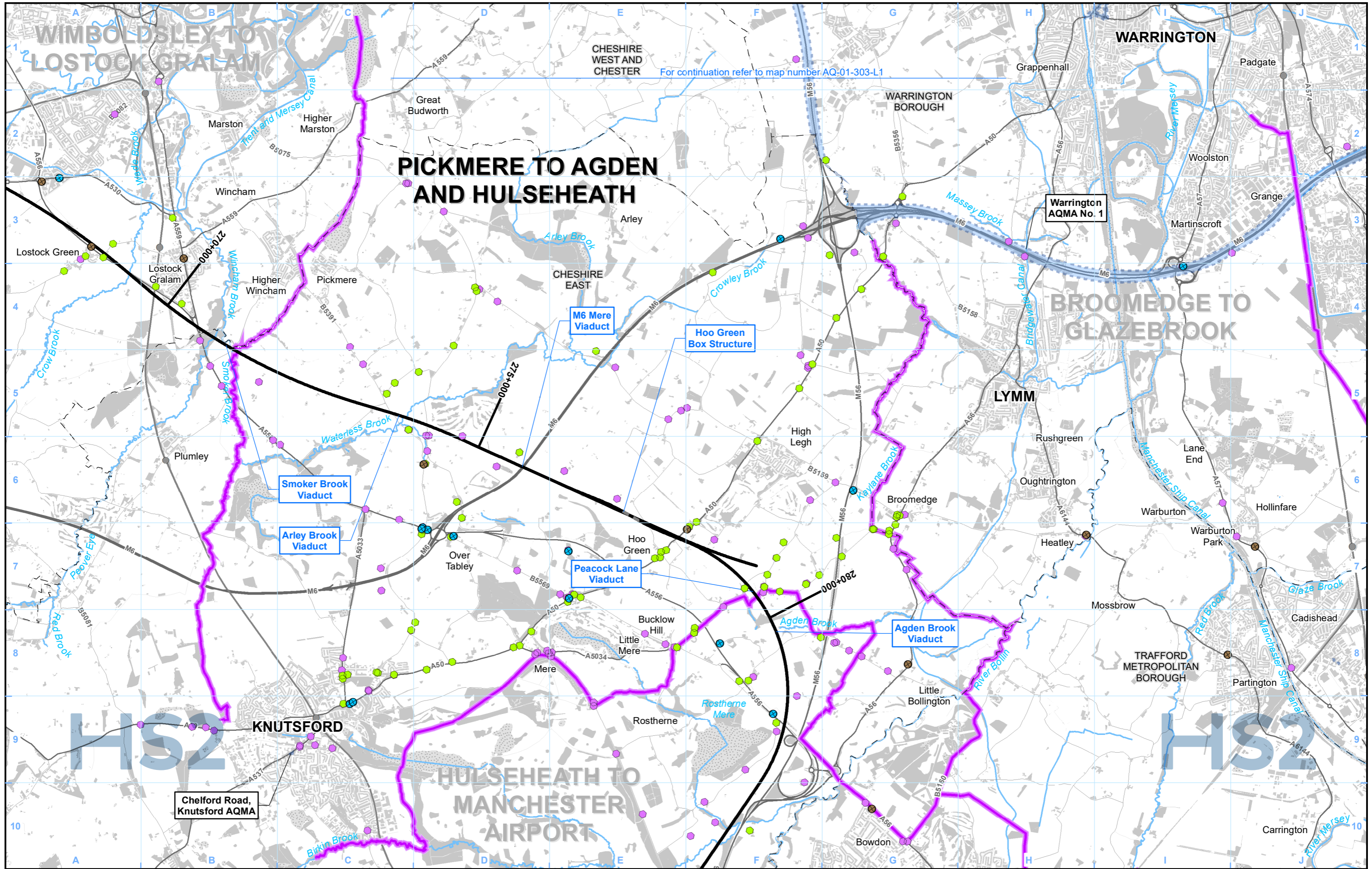
Legend <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland Existing railway station Existing rail line tunnel Airport Defra Air Quality Management Areas 2022 (AQMA) Diffusion tube monitoring location Continuous monitoring location HS2 monitoring location Air quality modelling receptors (construction) Air quality modelling receptors (operation) 		<p>Map Number AQ-01-302-R1</p> <p>Map Name Air Quality Monitoring Locations and Receptors SES2 and AP2 ES</p> <p>Community Area MA02: Wimboldsley to Lostock Gralam</p>	<p>HS2 <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></p> <p><small>Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA.</small></p> <p><small>© Crown copyright and database rights 2022 OS 100049190</small></p> <p>Scale at A3: 1:50,000</p> <p><small>0 500 1,000 1,500 2,000 Metres</small></p> <p>Doc Number: 2PT27-MWJ-EV-MAP-M000-003953-P01</p>
		<p>Date: 31/03/23</p>	

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Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA03: Pickmere to Agden and Hulseheath

AQ-01 – Air Quality Monitoring Locations and Receptors



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Existing railway station
- Existing rail line tunnel
- Airport
- Diffusion tube monitoring location
- Continuous monitoring location
- HS2 monitoring location
- Air quality modelling receptors (construction)
- Air quality modelling receptors (operation)

Map Number: **AQ-01-303**

Map Name: **Air Quality Monitoring Locations and Receptors SES2 and AP2 ES**

Community Area MA03: **Pickmere to Agden and Hulseheath**

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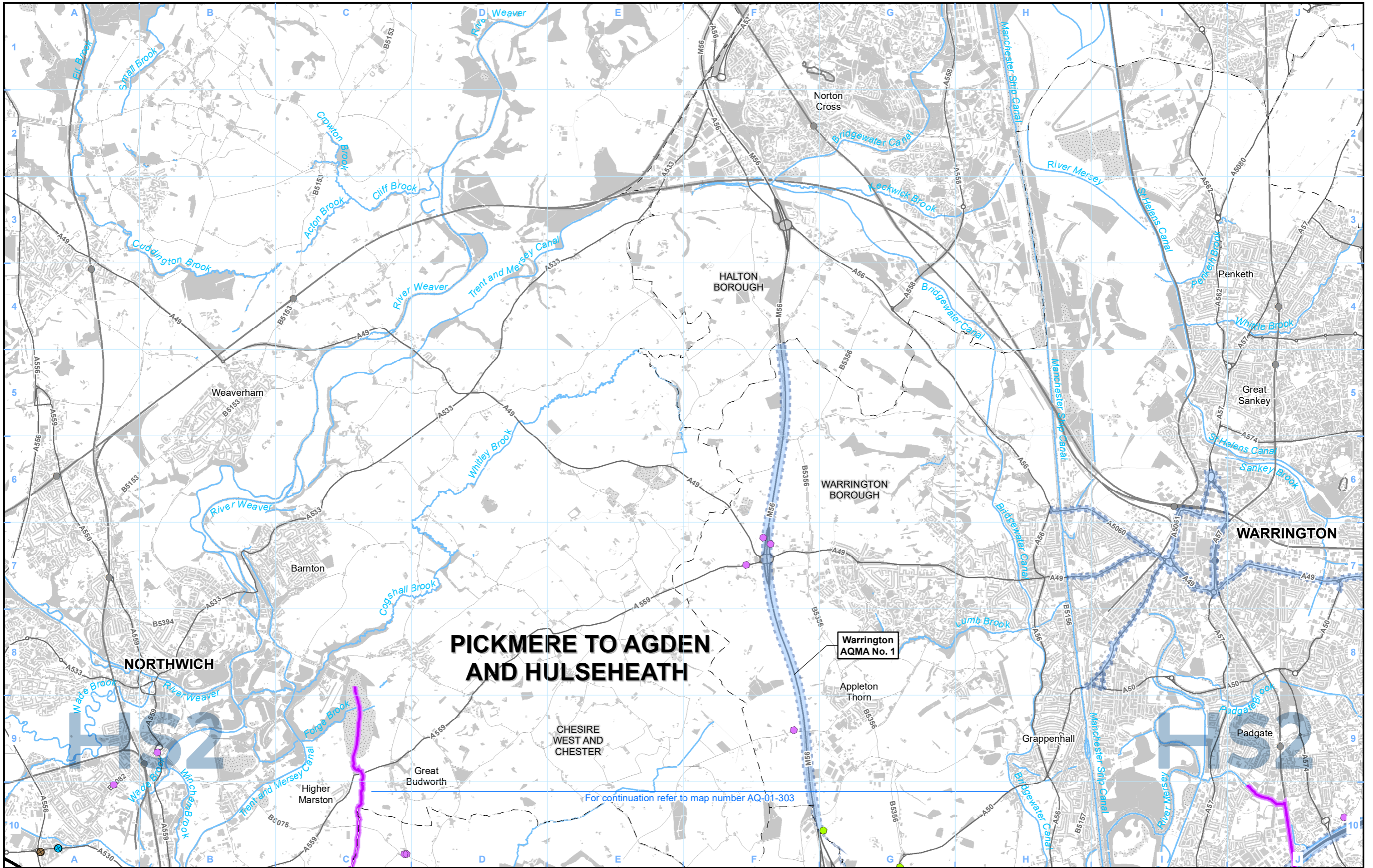
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PICKMERE TO AGDEN AND HULSEHEATH

Warrington AQMA No. 1

For continuation refer to map number AQ-01-303

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Existing railway station
	Existing rail line tunnel
	Airport
	Defra Air Quality Management Areas 2022 (AQMA)
	Diffusion tube monitoring location
	Continuous monitoring location
	HS2 monitoring location
	Air quality modelling receptors (construction)
	Air quality modelling receptors (operation)

Map Number	AQ-01-303-L1
Map Name	Air Quality Monitoring Locations and Receptors SES2 and AP2 ES
Community Area MA03: Pickmere to Agden and Hulseheath	

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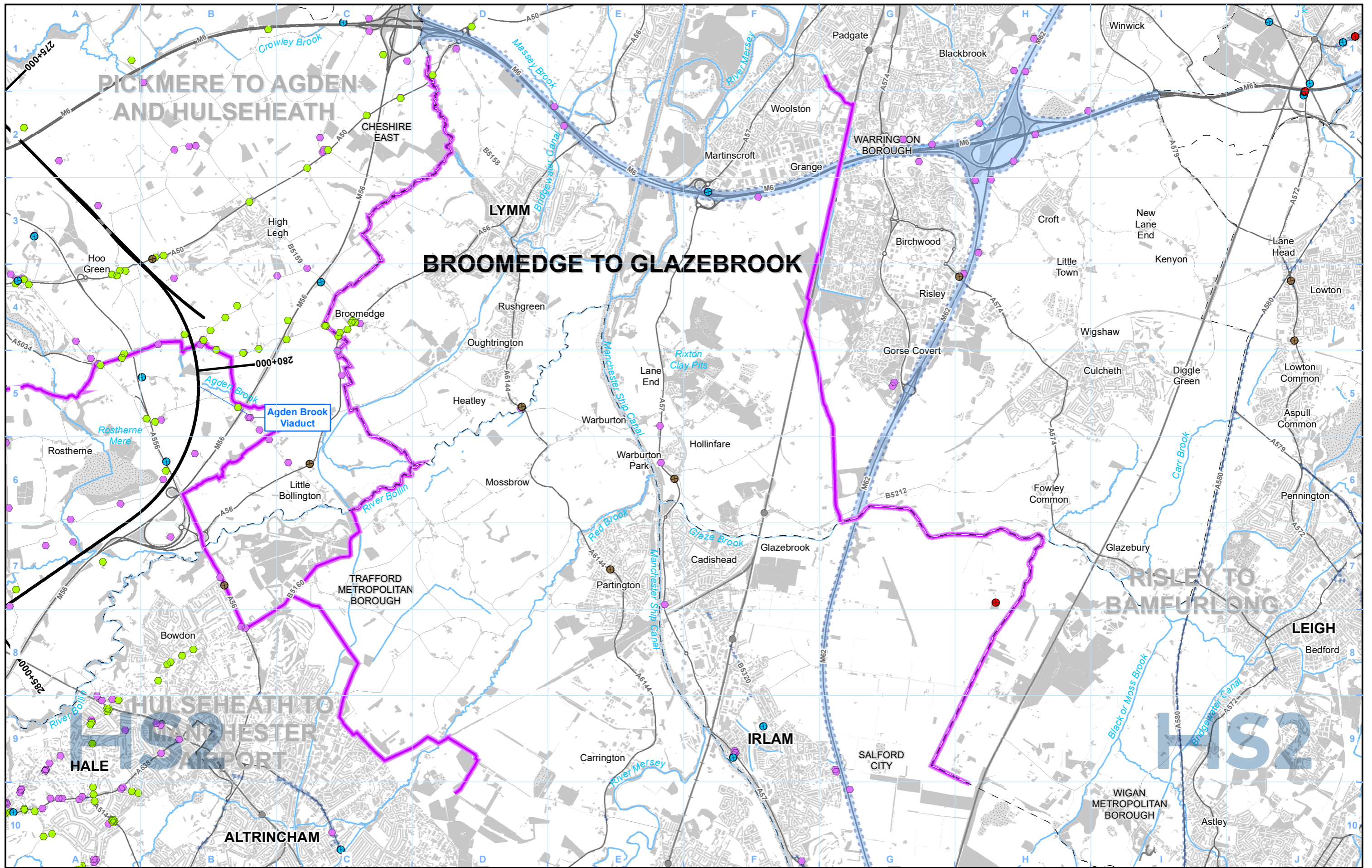
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA04: Broomedge to Glazebrook

AQ-01 - Air Quality Monitoring Locations and Receptors



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Existing railway station
- Existing rail line tunnel
- Airport
- Defra Air Quality Management Areas 2022 (AQMA)
- Diffusion tube monitoring location
- Continuous monitoring location
- HS2 monitoring location
- Air quality modelling receptors (construction)
- Air quality modelling receptors (operation)

Map Number: **AQ-01-304**

Map Name: **Air Quality Monitoring Locations and Receptors SES2 and AP2 ES**

Community Area MA04: **Broomedge to Glazebrook**

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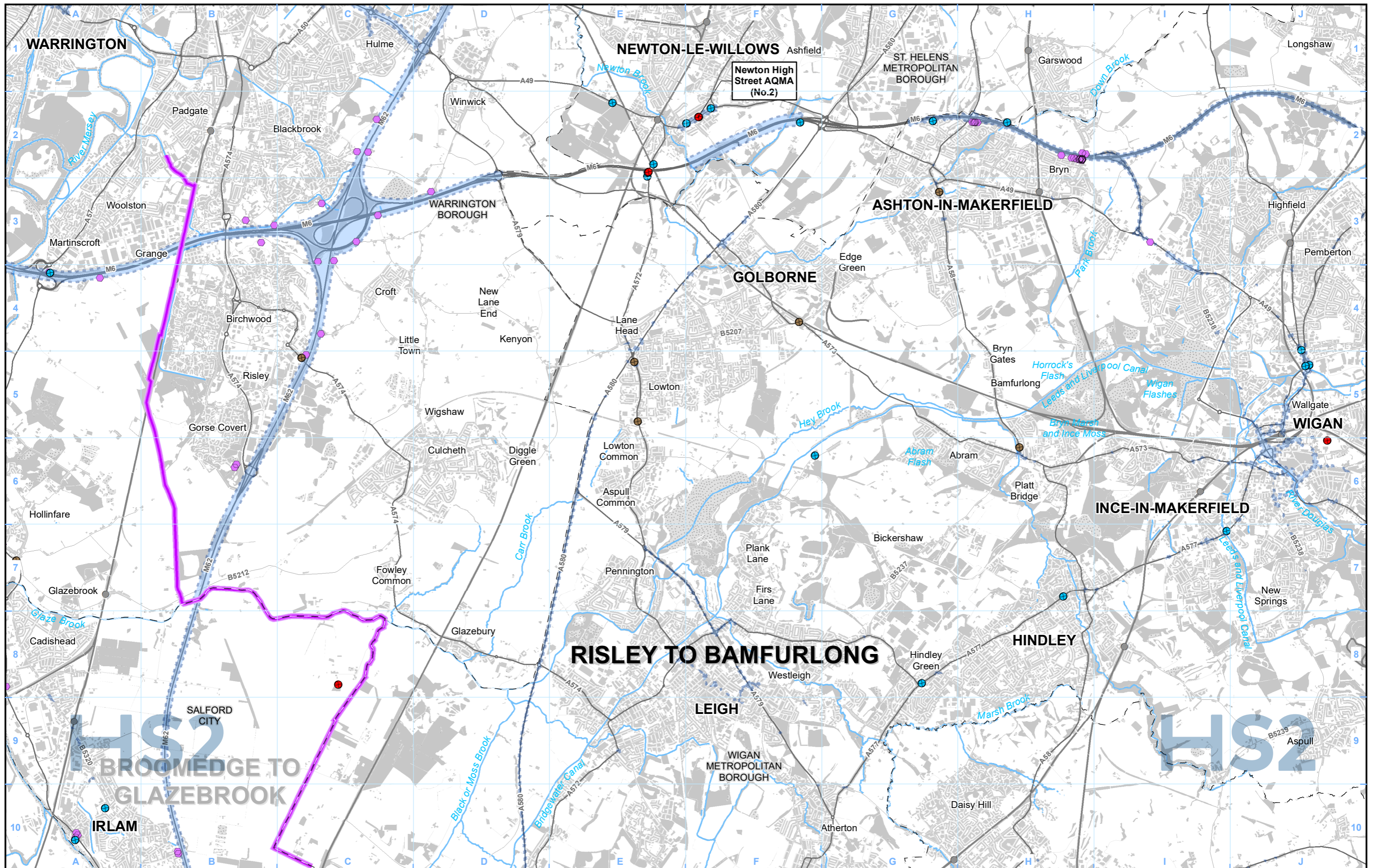
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA05: Risley to Bamfurlong

AQ-01 - Air Quality Monitoring Locations and Receptors



Legend		

Map Number	AQ-01-305
Map Name	Air Quality Monitoring Locations and Receptors SES2 and AP2 ES
Community Area MA05: Risley to Bamfurlong	

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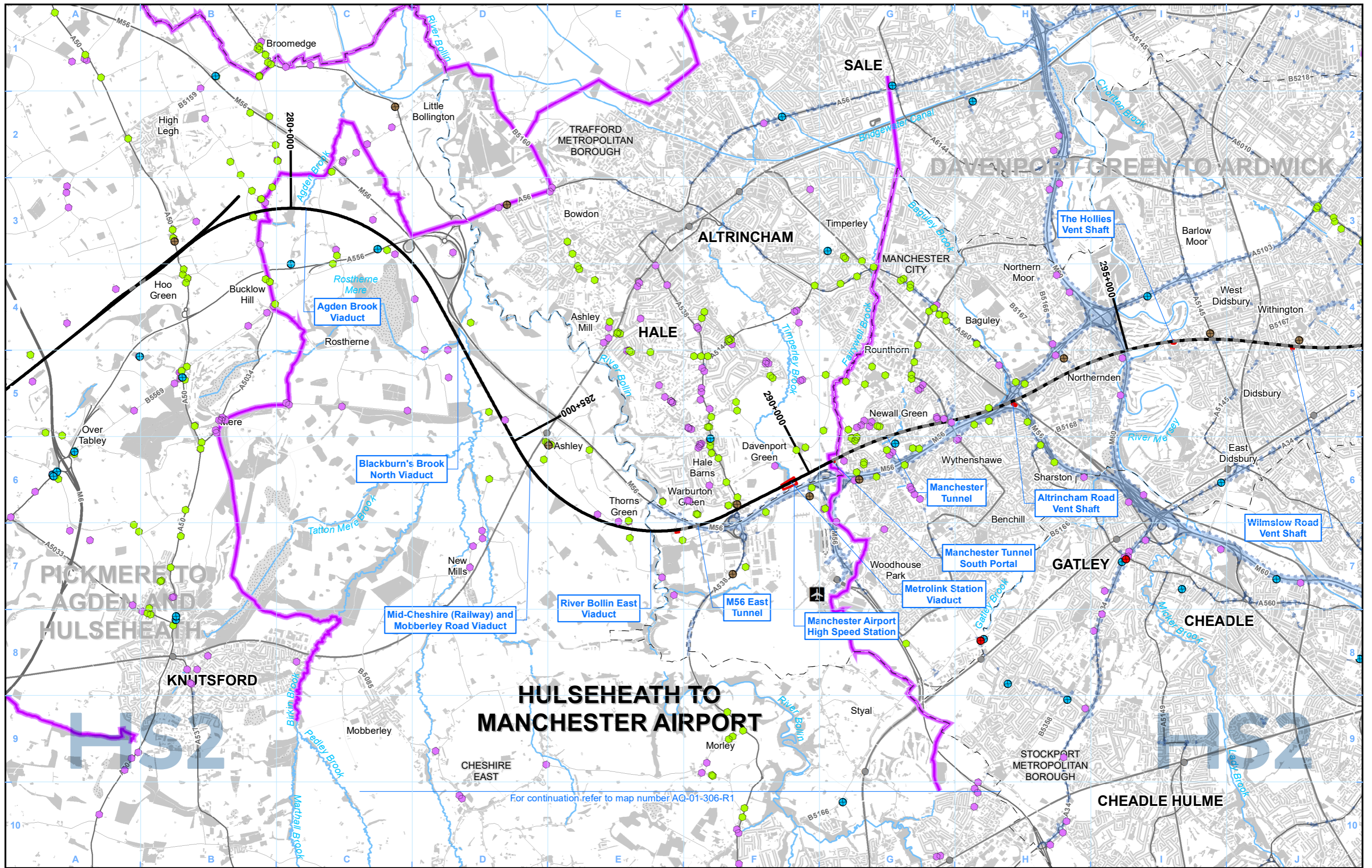
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA06: Hulseheath to Manchester Airport

AQ-01 – Air Quality Monitoring Locations and Receptors



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Existing railway station
- Existing rail line tunnel
- Airport
- Defra Air Quality Management Areas 2022 (AQMA)
- Diffusion tube monitoring location
- Continuous monitoring location
- HS2 monitoring location
- Air quality modelling receptors (construction)
- Air quality modelling receptors (operation)

Map Number: AQ-01-306

Map Name: Air Quality Monitoring Locations and Receptors SES2 and AP2 ES

Community Area MA06: Hulseheath to Manchester Airport

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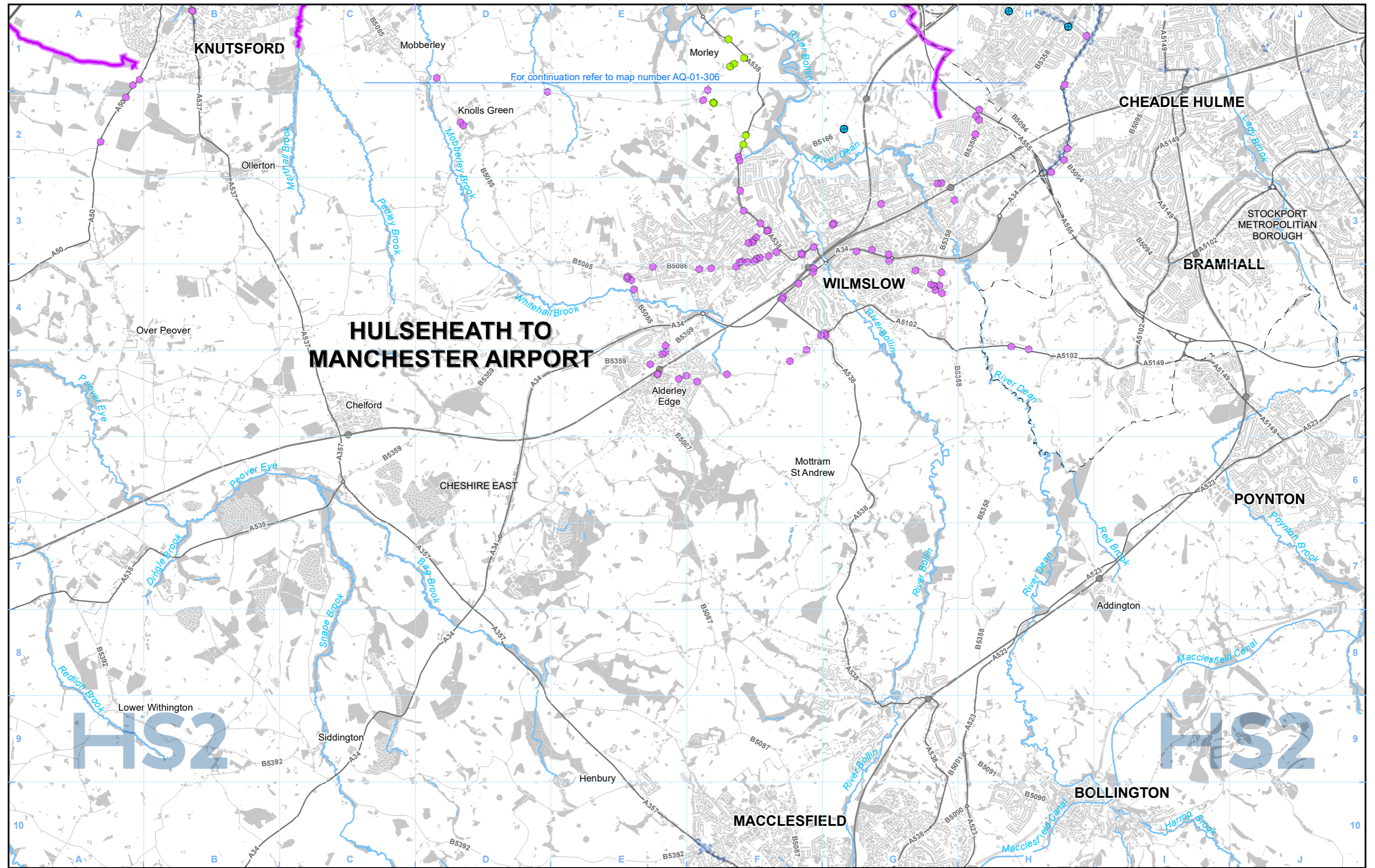
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Date: 31/03/23

Scale at A3: 1:50,000

0 500 1,000 1,500 2,000 Metres



For continuation refer to map number AQ-01-306

HULSEHEATH TO MANCHESTER AIRPORT

Legend		

Map Number	AQ-01-306-R1
Map Name	Air Quality Monitoring Locations and Receptors SES2 and AP2 ES
Community Area MA06: Hulseheath to Manchester Airport	

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Date: 31/03/23

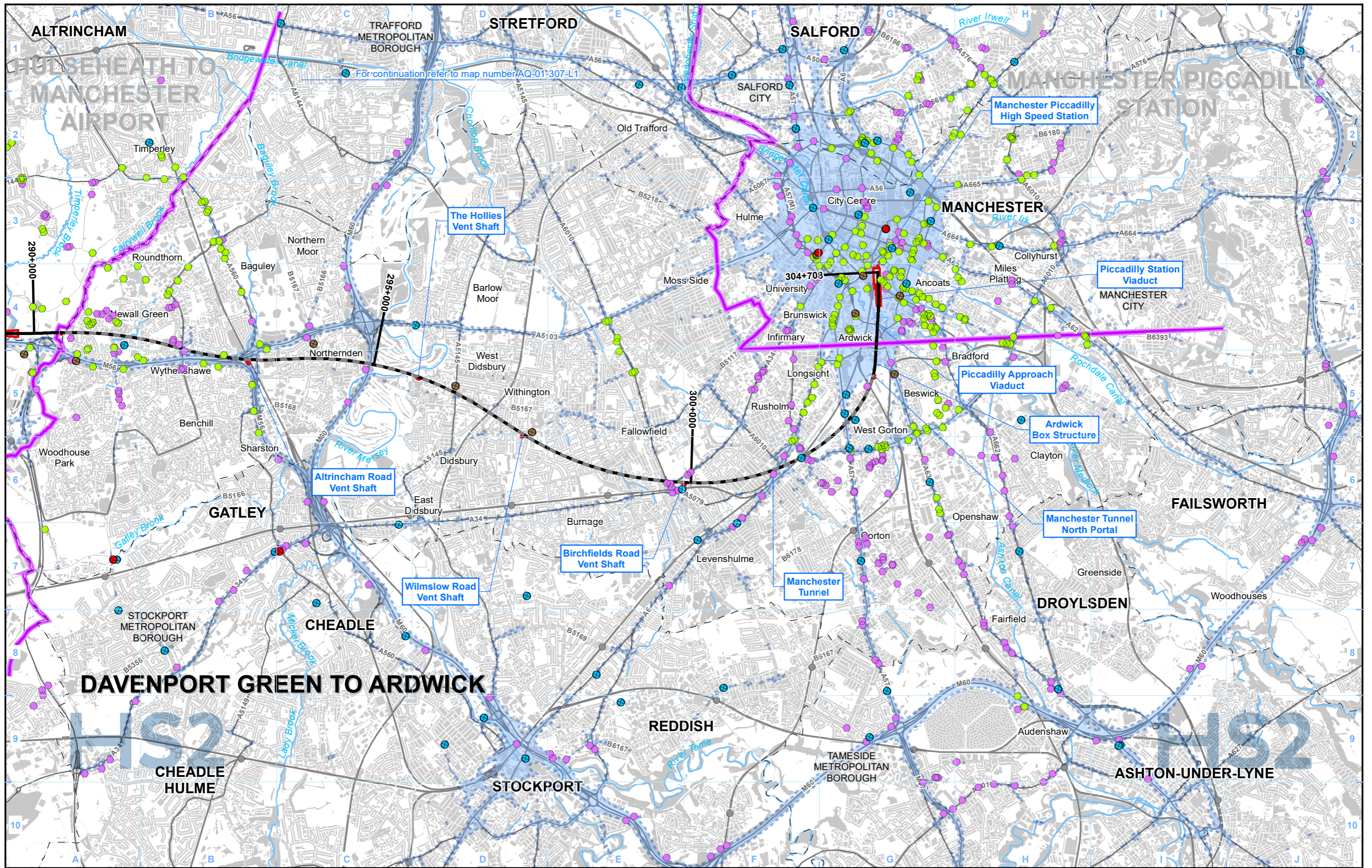
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA07: Davenport Green to Ardwick

AQ-01 – Air Quality Monitoring Locations and Receptors



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Existing railway station
- Existing rail line tunnel
- Airport
- Defra Air Quality Management Areas 2022 (AQMA)
- Diffusion tube monitoring location
- Continuous monitoring location
- HS2 monitoring location
- Air quality modelling receptors (construction)
- Air quality modelling receptors (operation)

Map Number: AQ-01-307

Map Name: Air Quality Monitoring Locations and Receptors SES2 and AP2 ES

Community Area MA07: Davenport Green to Ardwick

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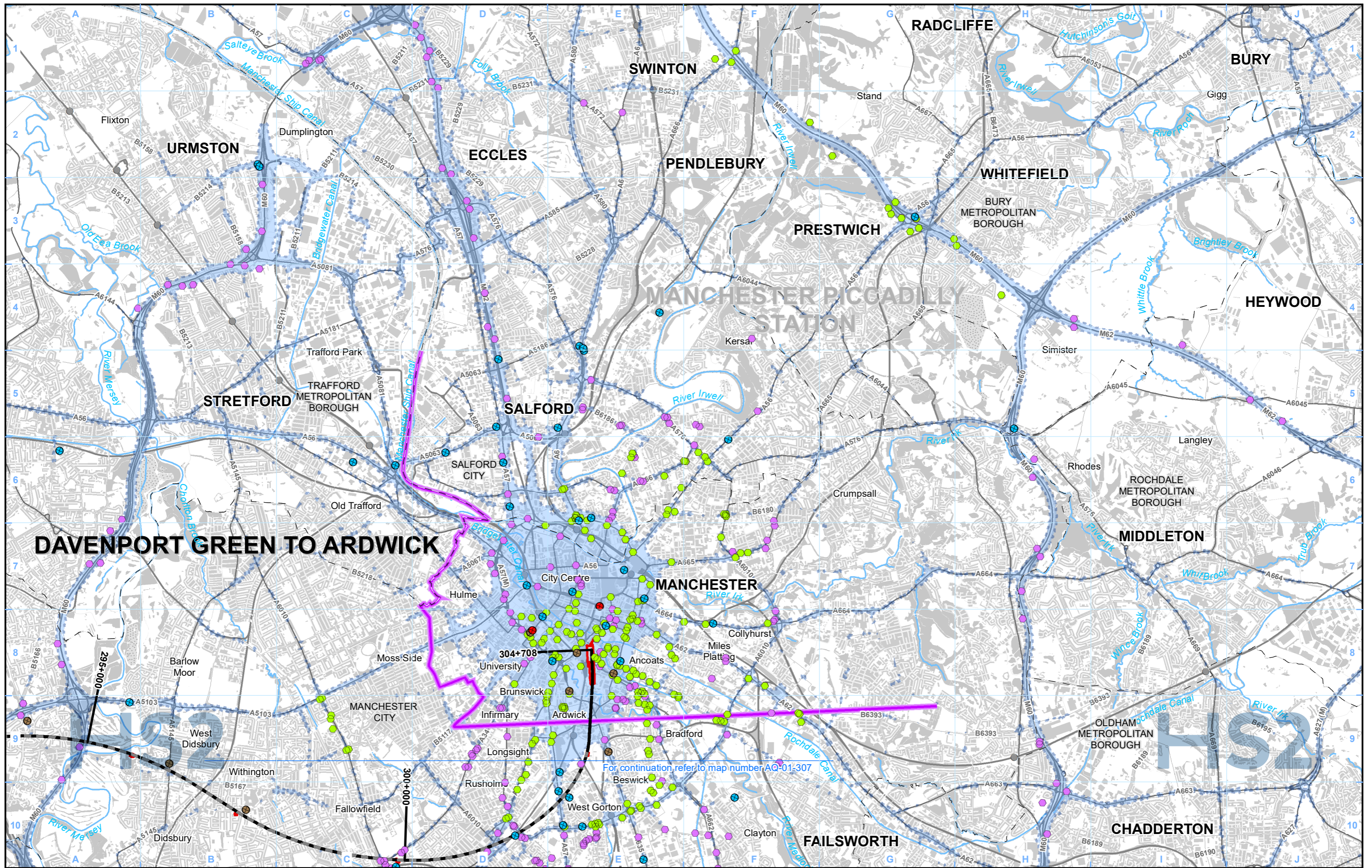
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DAVENPORT GREEN TO ARDWICK

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Existing railway station
- Existing rail line tunnel
- Airport
- Defra Air Quality Management Areas 2022 (AQMA)
- Diffusion tube monitoring location
- Continuous monitoring location
- HS2 monitoring location
- Air quality modelling receptors (construction)
- Air quality modelling receptors (operation)

Map Number: **AQ-01-307-L1**

Map Name: **Air Quality Monitoring Locations and Receptors SES2 and AP2 ES**

Community Area MA07: **Davenport Green to Ardwick**

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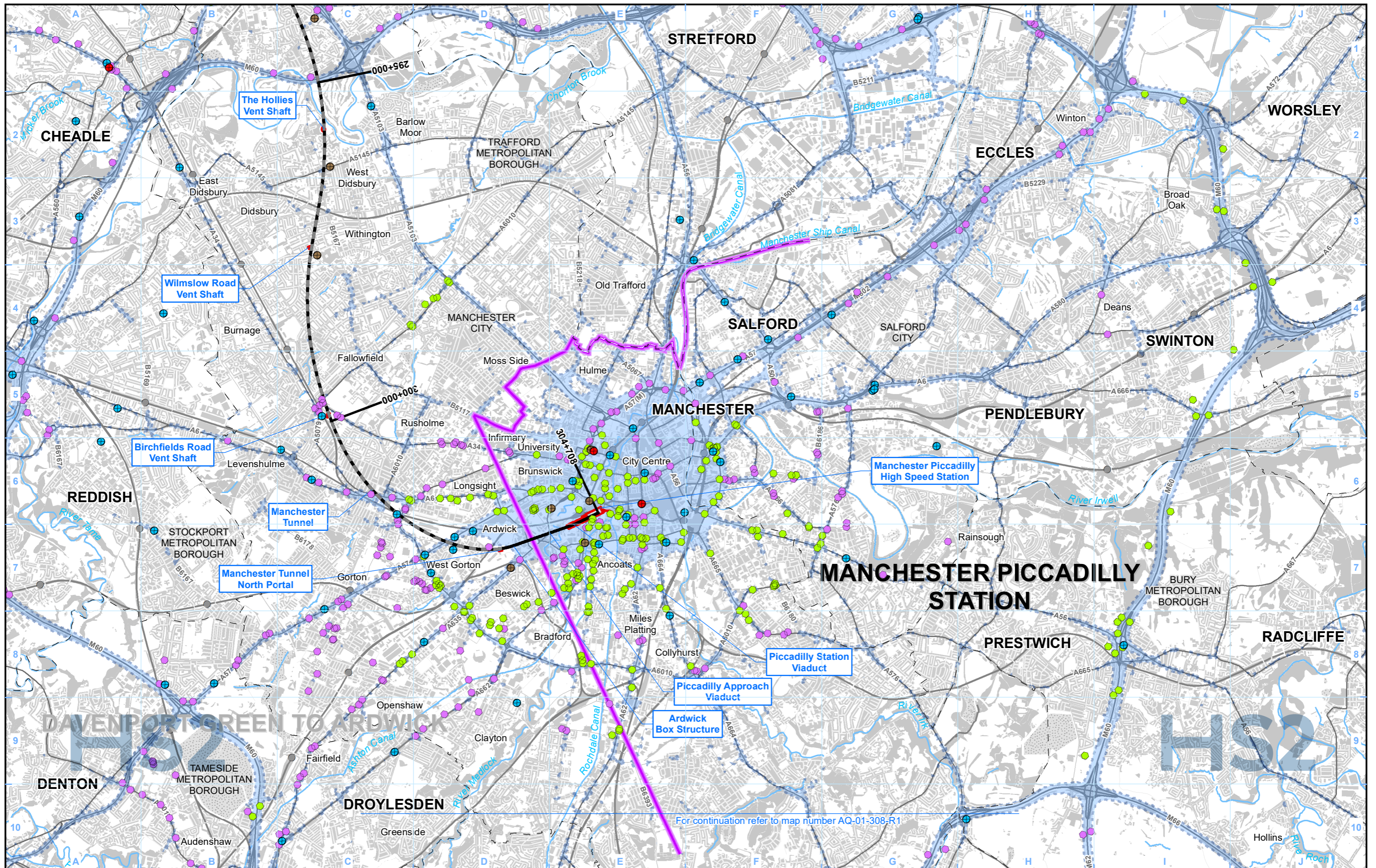
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High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

MA08: Manchester Piccadilly Station

AQ-01 – Air Quality Monitoring Locations and Receptors



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Existing railway station
	Existing rail line tunnel
	Airport
	Defra Air Quality Management Areas 2022 (AQMA)
	Diffusion tube monitoring location
	Continuous monitoring location
	HS2 monitoring location
	Air quality modelling receptors (construction)
	Air quality modelling receptors (operation)

Map Number	AQ-01-308
Map Name	Air Quality Monitoring Locations and Receptors SES2 and AP2 ES
	Community Area MA08: Manchester Piccadilly Station

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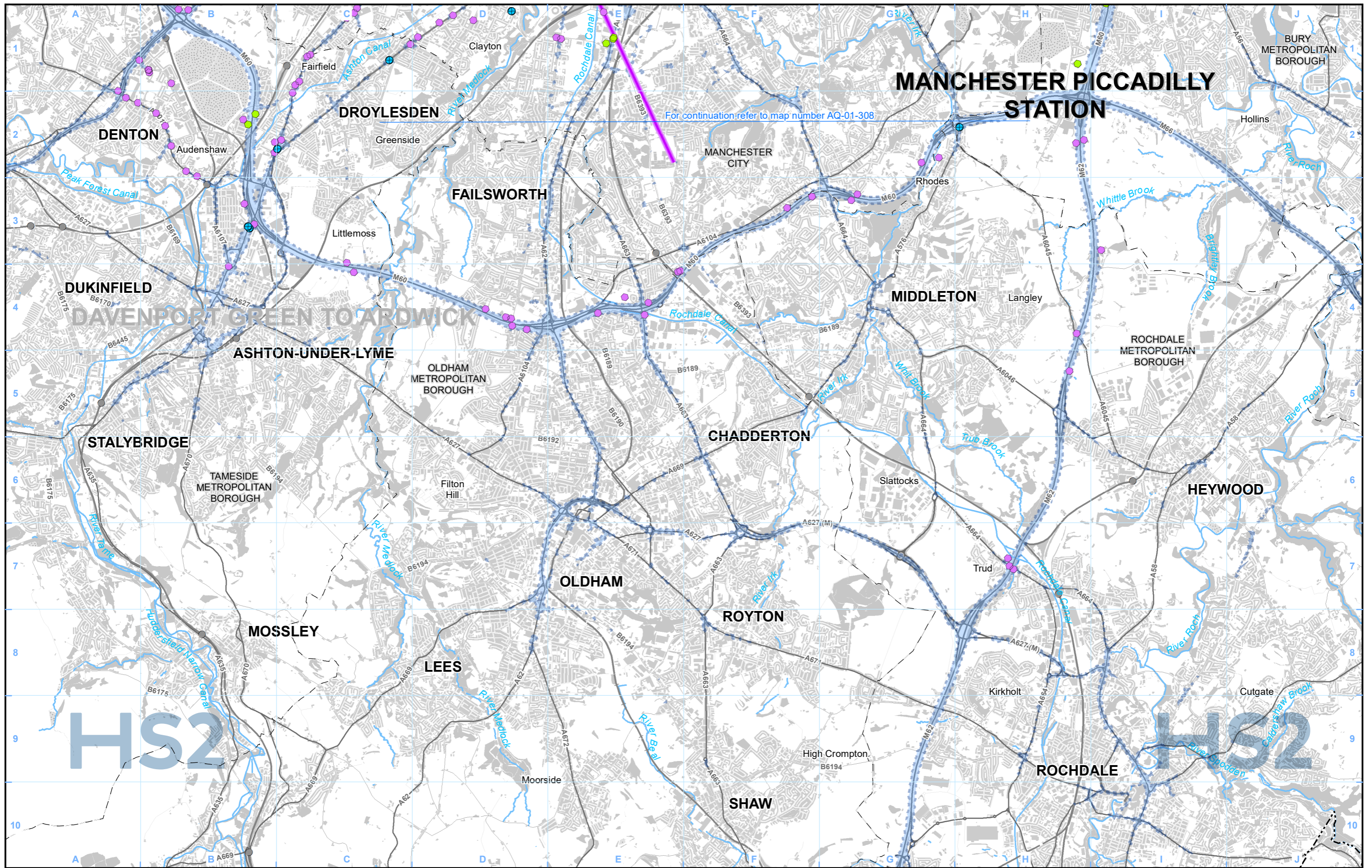
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For continuation refer to map number AQ-01-308-R1



MANCHESTER PICCADILLY STATION

For continuation refer to map number AQ-01-308

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Existing railway station
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- HS2 monitoring location
- Air quality modelling receptors (construction)
- Air quality modelling receptors (operation)

Map Number	AQ-01-308-R1
Map Name	Air Quality Monitoring Locations and Receptors SES2 and AP2 ES
Community Area MA08: Manchester Piccadilly Station	

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