In Parliament – Session 2021 - 2022



High Speed Rail (Crewe – Manchester) Environmental Statement

Volume 5: Appendix HA-001-0MA07

Health

MA07: Davenport Green to Ardwick

Health assessment matrix



High Speed Rail (Crewe - Manchester) Environmental Statement

Volume 5: Appendix HA-001-0MA07

Health

MA07: Davenport Green to Ardwick

Health assessment matrix



High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

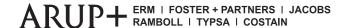
High Speed Two (HS2) Limited Two Snowhill Snow Hill Queensway Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.hs2.org.uk

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





High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard, please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2022, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v3.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/3 **CGL** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



Printed in Great Britain on paper containing at least 75% recycled fibre.

Volume 5: Appendix HA-001-0MA07 Health MA07: Davenport Green to Ardwick Health assessment matrix

Contents

1	Introduction	2
Tal	bles	
Tab	ole 1: Davenport Green to Ardwick (MA07) – Construction health assessment	
	matrix	3
Tak	ole 2: Davenport Green to Ardwick (MA07) – Operational health assessment matrix	7

Volume 5: Appendix HA-001-0MA07 Health MA07: Davenport Green to Ardwick Health assessment matrix

1 Introduction

- 1.1.1 This report presents assessment matrices that have been used to identify the health effects relating to the Davenport Green to Ardwick area (MA07).
- 1.1.2 This appendix should be read in conjunction with:
 - Volume 2, Community Area reports;
 - Volume 3, Route-wide effects; and
 - Volume 5, Appendices.
- 1.1.3 The matrices in this appendix list the impacts on health determinants identified along the route of the Proposed Scheme and apply assessment criteria as set out in the Environmental Impact Assessment (EIA) Scope and Methodology Report (SMR) (see Volume 5: Appendix CT-001-00001) to evaluate the likely health effects arising from these impacts. The assessment matrices for the construction and operational phases of the Proposed Scheme are set out in Table 1 and Table 2 respectively.
- 1.1.4 Impacts that are categorised as having low intensity and a low extent of exposure are not considered to affect the health of the population. For such impacts, no health effects are reported. The last column of the table indicates whether or not a health effect is reported, and in which volume of the Environmental Statement (ES) is discussed.
- 1.1.5 Commentary on the scientific evidence base used in the health assessment is presented in Volume 5, Appendix HA-002-00000.

Volume 5: Appendix HA-001-0MA07
Health
MA07: Davenport Green to Ardwick
Health assessment matrix

Table 1: Davenport Green to Ardwick (MA07) - Construction health assessment matrix

MA07 Davenport	MA07 Davenport Green to Ardwick - Health effects during construction Tommunities Impact Impact pathway Temporary / Repeficial / Health Intensity of Extent of Vulnerable Health effects at Mitigation Reporting													
Communities	lmpact description	Impact pathway	Temporary / permanent	Beneficial / adverse	Health determinant	Intensity of impact (low / moderate / high)	Extent of exposure (low / moderate / high)	Vulnerable groups	Health effects at population level	Mitigation	Reporting			
Wilmslow	The construction of the Wilmslow Road ventilation and intervention shaft (vent shaft) will be visible from street level on the eastern side of the B5093 Wilmslow Road. Construction noise will be noticeable in outdoor areas.	Visual intrusion and changes to the noise environment as a result of construction works leading to reduced levels of satisfaction with the local environment.		Adverse	Neighbourhood quality	Low	Moderate	None identified	Adverse effects on physical and/or mental wellbeing, such as increased stress and reduced satisfaction with quality of life.	Incorporated mitigation as reported in the ES.	Volume 2			
Wilmslow	Construction of the Wilmslow Road vent shaft would permanently require land which forms the Christie Car Park D on the B5093 Wilmslow Road, serving the Christie Hospital. Car Park D currently operates under a temporary planning permission which is expected to be in operation at the commencement of construction of the Proposed Scheme.	Demolition of community facility.	Permanent	Adverse	Access to services, health and social care	Moderate	Moderate	None identified	Effects on quality of life, limiting access to services.	None identified	Volume 2			
A34 Birchfields Road	The A34 Kingsway and the A34 Birchfields Road are designated construction traffic routes. An increase in heavy goods vehicle (HGV) traffic along the A34 Kingsway and the A34 Birchfields Road.	Increase in HGV traffic along the road and changes to the noise environment leading to reduced levels of satisfaction with the local environment.	Temporary (during peak months of construction)	Adverse	Neighbourhood quality	Low	Moderate	None identified	Adverse effects on physical and/or mental wellbeing, such as increased stress and reduced satisfaction with quality of life.	Incorporated mitigation as reported in the ES.	Volume 2			

Volume 5: Appendix HA-001-0MA07 Health

MA07: Davenport Green to Ardwick Health assessment matrix

MA07 Davenport Green to Ardwick - Health effects during construction											
Communities	Impact description	Impact pathway	Temporary / permanent	Beneficial / adverse	Health determinant	Intensity of impact (low / moderate / high)	Extent of exposure (low / moderate / high)	Vulnerable groups	Health effects at population level	Mitigation	Reporting
	Noticeable change in noise environment from the increase in traffic at residential properties along the A34.										
Birchfields Road	The construction of the Birchfields Road vent shaft will be visible from street level for some properties on A34 Birchfields Road, specifically those which lie opposite the Birchfields Road satellite compound. Construction noise will be noticeable in outdoor areas. The A34 Birchfields Road is a designated construction traffic route and there will be an increase in HGV traffic between the B5093 Moseley Road and Old Hall Lane.	Visual intrusion and changes to the noise environment as a result of construction works and HGV traffic leading to reduced levels of satisfaction with the local environment.	Temporary (up to seven months)	Adverse	Neighbourhood quality	Low	Moderate	None identified	Adverse effects on physical and/or mental wellbeing, such as increased stress and reduced satisfaction with quality of life.	Incorporated mitigation as reported in the ES.	Volume 2
A34 Birchfields Road	Construction of the Birchfields Road vent shaft will be visible from Birchfields Primary School, significant noise effects are predicted and one of the main roads used to access the school will be a construction traffic route. There will be an increase in	Visual intrusion and changes to the noise environment as a result of construction works leading to potential for changes in educational attainment.	months)	Adverse	Education	Low	Moderate	Children (under 10 years)	Effects on concentration, behaviour and cognitive impairment.	Incorporated mitigation as reported in the ES.	Volume 2

Volume 5: Appendix HA-001-0MA07 Health

MA07: Davenport Green to Ardwick Health assessment matrix

Communities	Impact	Impact pathway	Temporary /	Beneficial /	Health	Intensity of	Extent of	Vulnerable	Health effects at	Mitigation	Reporting
	description		permanent	adverse	determinant	impact (low / moderate / high)	exposure (low / moderate / high)	groups	population level		
	HGV traffic outside the school. The construction of the Birchfields Road vent shaft will be visible from the school.										
All areas	Presence of construction workforce on worksites and at satellite compounds (Altrincham Road vent shaft satellite compound, Palatine Road vent shaft satellite compound, Wilmslow Road vent shaft satellite compound, Birchfield Road vent shaft satellite compound, Manchester Tunnel north portal satellite compound, Manchester tunnel north portal main compound).	Presence of workers in local communities including in local shops, restaurants and other facilities, leading to changes in levels of community cohesion and trust.	Temporary (up to nine years)	Adverse	Social capital	Low	Moderate	None identified	No health effects at population level.	Incorporated mitigation as reported in the ES.	Volume 2
All areas	Construction of the Proposed Scheme intersecting public rights of way (PRoW).	Changes in the amenity value of PRoW, increased distance due to diversions, and introduction of features such as footbridges and underpasses, deterring the use of PRoW for active travel and recreation.	Temporary and permanent	Adverse	Access to green space, recreation and physical activity	Low	Low	People on low incomes	No health effects at population level.	Incorporated mitigation as reported in the ES.	Commentary in Volume 2
All areas	Presence of construction traffic, including	Amenity impacts and safety concerns, deterring the use	Temporary	Adverse	Access to green space, recreation and physical activity	Low	Low	None identified	No health effects at population level.	Incorporated mitigation as reported in the ES.	Commentary in Volume 2

Volume 5: Appendix HA-001-0MA07 Health

MA07: Davenport Green to Ardwick Health assessment matrix

Communities	Green to Ardwick – He	Impact pathway	Temporary /	Beneficial /	Health	Intensity of	Extent of	Vulnerable	Health effects at	Mitigation	Reporting
Communicies	description	impact pathway	permanent	adverse	determinant	impact (low / moderate / high)	exposure (low / moderate / high)	groups	population level	Wittgation	Keporting
	HGV, on local roads.	of local roads by non-motorised users.									
Route-wide	Demolition of a total of four residential properties.	Residents required to relocate involuntarily, leading to disruption and uncertainty. Changes in connectivity to social networks, schools, employment, services and facilities.	Permanent	Adverse	Housing	Low to high (depends on individual circumstances)	High (route-wide)	Older people, young families, children, people with specific housing needs, people with mental health conditions.	Effects on mental wellbeing including reduced life satisfaction and increased stress.	Incorporated mitigation as reported in the ES.	Volume 3
Route-wide	Presence of construction activities close to residential properties at Wythenshawe, Didsbury, Levenshulme and Ardwick.	Concern and uncertainty about impacts of construction on local environment and property values.	Temporary (throughout planning and construction)	Adverse	Planning blight and uncertainty	Low to high	High (route-wide)	None identified	Effects on mental wellbeing including reduced life satisfaction and increased stress.	Incorporated mitigation as reported in the ES.	Volume 3
Route-wide	Direct effects on businesses affecting business activities and employment.	Loss of employment and earnings for some business owners and employees.	Permanent	Adverse	Employment and income	Moderate to high	Moderate (route- wide)	People on low incomes, people with disabilities.	Effects on mental and physical wellbeing associated with loss of employment and earnings.	Incorporated mitigation as reported in the ES.	Volume 3
Route-wide	Presence of the construction works providing employment opportunities and demand for local goods and services.	Direct construction employment and training, employment within the supply chain, and benefits to local businesses through increased expenditure.	Temporary (throughout construction)	Beneficial	Employment and income	Moderate to high	High (route-wide)	Unemployed people and people on low incomes.	Beneficial effects on wellbeing associated with improved skills, employment status and income.	None identified	Volume 3
oute-wide	Increase in traffic flows and proportion of HGV on local road network.	Increased risk of road traffic accidents and fear of accidents.	Temporary	Adverse	Transport	Low to high	Moderate (route- wide)	Older people, children, people with disabilities.	Adverse effects on mental and physical wellbeing including stress and behavioural changes such as	Incorporated mitigation as reported in the ES.	Volume 3

Volume 5: Appendix HA-001-0MA07 Health

MA07: Davenport Green to Ardwick Health assessment matrix

MA07 Davenport	IA07 Davenport Green to Ardwick - Health effects during construction														
Communities	Impact description	Impact pathway	Temporary / permanent	Beneficial / adverse	Health determinant	Intensity of impact (low / moderate / high)	Extent of exposure (low / moderate / high)	Vulnerable groups	Health effects at population level	Mitigation	Reporting				
									reductions in walking.						
Route-wide	Presence of construction sites, vehicles and plant resulting in increased air emissions.	Increase in exposure of the population to dust, nitrogen oxides and particulates.	Temporary	Adverse	Air quality	Low	Low	Children, older people, people with existing respiratory health conditions.	No health effects at population level.	Incorporated mitigation as reported in the ES.	Not reported				

Table 2: Davenport Green to Ardwick (MA07) – Operational health assessment matrix

MA07 Davenport Green to Ardwick - Health effects during operation													
Communities	Impact description	Impact pathway		Beneficial / adverse	Health determinant	Intensity of impact (low / moderate / high)	Extent of exposure (low / moderate / high)	Vulnerable groups	Health effects at population level	Mitigation	Reporting		
CA-wide	No impacts identified	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		