

High Speed Rail (Crewe – Manchester)

Background information and data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality
assessment

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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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Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

Contents

1	Introduction	2
2	Relevant policies and guidance	3
2.2	Manchester City Council	3
2.3	Trafford Metropolitan Borough Council	3
2.4	Tameside Metropolitan Borough Council	4
2.5	Oldham Metropolitan Borough Council	5
2.6	Stockport Metropolitan Borough Council	5
2.7	Greater Manchester Clean Air Plan	5
3	Baseline air quality data	7
3.1	Local air quality monitoring data	7
3.2	Industrial emission sources	9
4	Construction traffic data	10
5	Operational traffic data	45
6	References	50

Tables

Table 1: Annual mean pollutant concentrations recorded at continuous monitoring sites	7
Table 2: Annual mean NO ₂ concentrations recorded at diffusion tube monitoring sites	7
Table 3: Annual mean NO ₂ concentrations recorded at HS2 monitoring sites	8
Table 4: Industrial installations with permits for emissions to air	9
Table 5: Traffic data (AADT) used for the construction assessment	11
Table 6: Traffic data (HDV) used for the construction assessment	27
Table 7: Construction traffic flows on the site haul routes	44
Table 8: Traffic data used for the operational assessment	46

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

1 Introduction

1.1.1 This report presents additional data used in the air quality assessment of the Davenport Green to Ardwick area (MA07) and comprises:

- relevant policies and guidance; and
- baseline air quality data.

1.1.2 Volume 5, Appendix: AQ-001-0MA07¹ should be referred to for details of the air quality impact assessment.

¹ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement, Air quality report*, Appendix AQ-001-0MA07. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

2 Relevant policies and guidance

- 2.1.1 The Davenport Green to Ardwick area lies mostly within the administrative area of Manchester City Council (MCC) with Trafford Metropolitan Borough Council (TMBC), Oldham Metropolitan Borough Council (OMBC), Tameside Metropolitan Borough Council (TaMBC) and Stockport Metropolitan Borough Council (SMBC) lying at the edges of the area.

2.2 Manchester City Council

- 2.2.1 The Core Strategy, 2012 – 2027², for MCC sets out the long-term strategic policies for Manchester’s future development and will form the framework that planning applications will be assessed against up to 2027.
- 2.2.2 Policy EN16, air quality, states that MCC will seek to improve the air quality within Manchester, particularly within the AQMAs, located along Manchester’s principal traffic routes and at Manchester Airport. It states, ‘Developers will be expected to take measures to minimise and mitigate the local impact of emissions from traffic generated by the development, as well as emissions created by the use of the development itself, including from combined heat and power and biomass plant. When assessing the appropriateness of locations for new development the Council will consider the impacts on air quality, alongside other plan objectives. This includes cumulative impacts, particularly in AQMAs.’
- 2.2.3 Policy DM1, Development Management, states that all development should have regard for ‘...effects on amenity, including privacy, light, noise, vibration, air quality, odours, litter, vermin, birds, road safety and traffic generation....’

2.3 Trafford Metropolitan Borough Council

- 2.3.1 The Local Plan for TMBC³ sets out an overarching strategy and development principles for Trafford to guide development until at least 2026.
- 2.3.2 Policy L5.15 (Climate Change – Pollution) states, ‘Development that has the potential to cause adverse pollution (of air, light, water, ground), noise or vibration will not be permitted unless it can be demonstrated that adequate mitigation measures can be put in place.’
- 2.3.3 Policy L5.16 (Climate Change – Pollution) states, ‘Within the Borough’s Air Quality Management Zones developers will be required to adopt measures identified in the Greater

² Manchester City Council (2012), *Manchester’s Local Development Framework – Core Strategy Development Plan 2012 – 2027*. Available online at:

https://secure.manchester.gov.uk/downloads/download/5672/core_strategy.

³ Trafford Council (2012), *Trafford Local Plan: Core Strategy*. Available online at:

<https://www.trafford.gov.uk/planning/strategic-planning/docs/core-strategy-adopted-final.pdf>.

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

Manchester Air Quality Action Plan, to ensure that their development would not have an adverse impact on the air quality.'

- 2.3.4 Policy R3 (Green Infrastructure) outlines measures that TMBC will implement to development an integrated network or green infrastructure, which will bring about reductions in air pollution.
- 2.3.5 The TMBC draft Local Plan⁴ was approved for public consultation on 14 December 2020. Policy EP3: Air Quality provides a range of measures aimed at improving air quality within Trafford, including '...measures to minimise air pollution at the design stage and incorporate best practice in the design, construction and operation of the development...' and '...green infrastructure in the design of the development...' The Plan will supersede the existing Plan and is due for adoption by TMBC in 2023.

2.4 Tameside Metropolitan Borough Council

- 2.4.1 Tameside Council is currently in the process of preparing its local plan that will guide future development in the Borough. Until the new local plan is produced, the Unitary Development Plan⁵ (UDP), adopted in 2004, will still be used to make planning decisions.
- 2.4.2 Policy T14 Transport Assessment states, '...applicants will be expected to supply an air quality impact assessment alongside a Transport Assessment, so that the effect of the traffic generation on any Air Quality Management Area that may be declared can be considered.'
- 2.4.3 Policy MW14 Air Quality states, '...when developments are proposed which could have a significant impact on local air quality, the Council will consider the extent to which the development may affect the target levels in any Air Quality Management Areas which are declared or the requirements of related action plans, and weigh this against other material considerations before granting planning permission. When developments are proposed within areas where air quality is likely to exceed the objectives set in the National Air Quality Strategy, the Council will consider the extent to which occupiers could be exposed to health risks from levels of air pollution in excess of national targets, taking into account the effect of action plans introduced to reduce such exceedances, and will weigh this against other material planning considerations before granting planning permission.'

⁴ Trafford Metropolitan Borough Council (2021), *The Trafford Local Plan – Regulation 18 Consultation Draft*. Available online at: <https://www.trafford.gov.uk/planning/strategic-planning/docs/Draft-Local-Plan-Jan-2021.pdf>.

⁵ Tameside Metropolitan Borough Council (2004), *Unitary Development Plan*. Available online at: [https://www.tameside.gov.uk/Planning/Unitary-Development-Plan-\(UDP\)](https://www.tameside.gov.uk/Planning/Unitary-Development-Plan-(UDP)).

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

2.5 Oldham Metropolitan Borough Council

- 2.5.1 Oldham Council's Development Plan Document Joint Core Strategy and Development Management Policies⁶ sets out the long-term vision and objectives for the borough until 2026.
- 2.5.2 Policy 9 on Local Environmental Quality and Amenity states, 'The Council will protect and improve local environmental quality and amenity by ensuring development: ...does not have an unacceptable impact on the environment or human health caused by air quality, odour, noise, vibration or light pollution; and ...does not result in unacceptable level of pollutants or exposure of people in the locality or wider area. Developments identified in the Air Quality Action Plan will required an air quality assessment...'

2.6 Stockport Metropolitan Borough Council

- 2.6.1 The Core Strategy for Stockport provides the overall spatial strategy for the Local Development Framework⁷ (LDF). The Core Strategy covers the period from its adoption to 2026.
- 2.6.2 Air quality is cited within Policy CS10 (An Effective and Sustainable Transport Network), which states, '...The Council will continue to alongside other Greater Manchester Boroughs on implementing Air Quality Management Plans to facilitate improvements in air quality along the Borough's major road corridors, where national and European targets on nitrogen dioxide emissions are currently not being met. The Council will promote the use of cleaner fuels amongst motorists and continue to use cleaner fuels for its own fleet of vehicles.... Modal shift from car to public transport, walking and cycling will also assist in an improvement in air quality....'

2.7 Greater Manchester Clean Air Plan

- 2.7.1 The proposed Greater Manchester Clean Air Plan⁸ (CAP) has been in development since 2018. The aim of the CAP is to bring nitrogen dioxide (NO₂) levels within legal limits in 'the shortest possible time.' This includes launching and operating a Greater Manchester-wide Class C Clean Air Zone (CAZ) which is expected to be introduced from spring 2022. The CAZ

⁶ Oldham Metropolitan Borough Council (2011), *Oldham Development Framework: Development Plan Document – Joint Core Strategy and Development Policies*. Available online at: https://www.oldham.gov.uk/info/200709/documents_in_the_local_plan/978/adoption_of_joint_core_strategy_and_development_management_policies_development_plan_documents_dpds.

⁷ Stockport Metropolitan Borough Council (2011), *Core Strategy DPD*. Available online at: <http://www.marplecivicsociety.org.uk/ldfcorestrategydpd.pdf>.

⁸ Greater Manchester Combined Authority (2020), *Greater Manchester Clean Air Plan: Consultation*. Available online at: <https://democracy.greatermanchester-ca.gov.uk/documents/s12762/GMCA%20Clean%20Air%20Post%20Consultation%20FINAL.pdf>.

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

would require the owners of vehicles which do not meet the necessary emissions standards to pay a daily charge. A public consultation on the CAP took place between 8 October and 3 December 2020. The final CAP is expected to be considered no later than summer 2021.

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

3 Baseline air quality data

3.1 Local air quality monitoring data

3.1.1 Table 1 and Table 2 present the monitoring data from the continuous monitors and diffusion tube sites within the Davenport Green to Ardwick area. No exceedances of the hourly mean NO₂ standard were recorded at the continuous monitoring sites. No exceedances of the daily mean PM₁₀ standard were recorded at the Stockport Cheadle continuous monitoring site. Table 3 also presents the NO₂ measurements from the HS2 monitoring sites in this area.

Table 1: Annual mean pollutant concentrations recorded at continuous monitoring sites

Pollutant ⁹	Annual mean concentrations (µg/m ³)				
	2014	2015	2016	2017	2018
Manchester Sharston, (384181, 386076)					
NO ₂	No data	No data	23.0	24.0	24.0
PM _{2.5}	No data	No data	8.2	7.6	8.1
Stockport Cheadle A34 (385049, 388344)					
NO ₂	No data	No data	No data	43.0	37.0
PM ₁₀	No data	No data	No data	18.0	19.0

Note: Stockport Cheadle A34 is referred to as 'STK7' in the Volume 5 report; this site was used for verification.

Table 2: Annual mean NO₂ concentrations recorded at diffusion tube monitoring sites

Site	Ordnance survey coordinates	Annual mean NO ₂ concentrations (µg/m ³)				
		2014	2015	2016	2017	2018
Stockport - SK 2	384889, 385846	22.1	20.7	24.7	42.5	37.3
Stockport - SK28	385702, 386226	44.6	40.0	43.7	42.4	41.3
Stockport - SK12	385028, 388278	54.7	50.4	54.5	42.4	38.0
Stockport - SK 6	385953, 388534	17.6	16.8	19.1	18.8	16.7
Stockport - SK21	388599, 389412	23.5	21.7	25.3	23.8	22.1
Stockport - SK20	386921, 389528	41.8	44.0	47.9	43.8	41.9
Stockport - SK17	388471, 390093	27.2	27.3	30.2	27.7	28.2
Stockport - SK18	389260, 390407	40.5	39.7	37.6	38.2	37.0
Stockport - SK27	387099, 391385	18.8	17.4	22.4	18.7	16.8
Stockport - SK 3	388558, 391852	27.5	26.8	29.4	29.6	26.0
Stockport - SK 1	389077, 392012	22.9	20.3	23.2	22.5	20.0
Stockport - SK19	389481, 393470	42.0	39.5	42.5	44.4	37.8
Manchester Sharston (90 91 92)	384202, 386121	No data	No data	22.5	22.0	20.1

⁹ Greater Manchester Combined Authority (2019), 2018 Air Quality Annual Status Report (ASR). Available online at: https://www.manchester.gov.uk/downloads/download/4166/air_quality_reports.

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

Site	Ordnance survey coordinates	Annual mean NO ₂ concentrations (µg/m ³)				
		2014	2015	2016	2017	2018
Manchester - St Pauls, Firbank Road (8a)	381384, 387484	29.5	28.0	32.4	29.2	26.6
Manchester - Kingsway (74)	385399, 390093	35.5	35.4	38.0	37.1	35.7
Manchester - Princess Road (37)	382829, 391493	42.1	41.8	46.3	42.6	39.3
Manchester - Alma Road (80)	387358, 393990	30.7	30.8	35.3	34.2	32.2
Manchester - Peaceville Road (81)	386589, 394083	23.8	23.3	25.9	25.2	21.8
Manchester - Stockport Road (75)	387363, 394617	48.0	46.5	51.5	47.7	47.6
Manchester - Victoria Terrace (79)	386875, 395861	29.7	30.5	32.7	31.8	29.9
Manchester - Hyde Road (73)	388601, 396048	39.4	38.6	43.6	39.0	38.7
Manchester - A57 Hyde Road (87a, 87b)	387020, 396561	No data	36.6	37.3	36.7	33.5
A57 Hyde Road and Clowes Street (88a, 88b)	386536, 396699	No data	42.1	49.2	47.7	45.3
Manchester - A6010 Pottery Lane (86a, 86b)	387150, 396808	No data	33.3	37.0	35.7	32.0
Manchester - Wenlock Way (89a, 89b)	386681, 396806	No data	31.2	34.9	34.9	30.6
Manchester - Rostron Avenue (78)	386289, 396828	31.0	31.9	37.0	38.3	33.2
Manchester - Ashton Old Road (28)	387951, 397430	35.7	34.6	41.0	38.5	37.1
Manchester - Clayton Day Nursery (14)	387656, 399016	22.9	21.9	23.3	22.1	18.6
Tameside - T 3	391000, 395130	No data	30.9	31.9	29.3	28.0
Tameside - T 24 (TM24)	390490, 395630	36.0	33.2	39.3	34.4	32.1
Tameside - T 16	391470, 397930	41.3	40.7	46.1	43.5	40.5
Tameside - T 17	389400, 398220	No data	34.8	36.2	36.4	31.1
Tameside T56 (TM56)	392582, 398402	No data	No data	No data	No data	42.8
Tameside T13 (TM13)	392584, 398430	42.3	42.5	42.9	42.5	41.8
Trafford - TR17NO	378004, 391466	27.3	24.5	26.4	18.1	17.3
Trafford - TR5NO	379052, 392043	25.5	24.2	25.5	24.1	24.0
Trafford - TR9NO	380933, 395889	29.2	25.7	25.5	25.0	24.8
Trafford - TR13NO	381221, 396441	32.3	30.9	32.7	38.3	35.9

Table 3: Annual mean NO₂ concentrations recorded at HS2 monitoring sites

Site	Ordnance survey coordinates	Annual mean NO ₂ concentrations (µg/m ³)	
		2018	2019
MA07.1	382475, 390018	45.7	43.0
MA07.2	383879, 391663	34.2	31.9
MA07.3	384942, 392418	30.2	28.6
MA08.4	386298, 397600	41.3	39.9
MA06.7	381315, 386746	32.7	30.0

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

3.2 Industrial emission sources

3.2.1 Table 4 presents the industrial installations (regulated by the Environment Agency) with permits for emissions to air within the Davenport Green to Ardwick area.

Table 4: Industrial installations with permits for emissions to air

Operator	Permit number	Process
Centrica Business Solutions UK Limited	WP3906PP	Medium combustion plant
SUEZ Recycling and Recovery UK Ltd	RP3636QW	Fuel from waste; making solid fuel from waste by using heat (except charcoal)
Vita Liquid Polymers Limited	DP3532DM	Organic chemicals; nitrogen containing compounds e.g. amines
Greyland Ltd	GP3339KP	Organic chemicals; surface-active agents
United Biscuits UK Ltd	TP3438PA	Treatment of Animal and Vegetable Matter and Food Industries
Concept Chemicals & Coatings Ltd	TP3634LH	Organic chemicals; surface-active agents
Urban Reserve (AssetCo) Limited	ZP3807PL	New medium combustion plant
Evonik Chemicals Limited	BL9623IK	Organic chemicals; nitrogen containing compounds e.g. amines
Carbogen Amcis Limited	BM0303IW	Organic chemicals; hydrocarbons e.g. aromatics

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

4 Construction traffic data

- 4.1.1 Table 5 and Table 6 outlines the predicted flows for construction traffic on the highway network. The data presented are split into annual average daily traffic (AADT) and heavy duty vehicles (HDV) in the 'without the Proposed Scheme' and 'with the Proposed Scheme' scenarios.
- 4.1.2 The air quality assessment of construction traffic emissions has used traffic data based on an estimate of the average daily flows in the peak year during the construction period (2025 – 2037). The assessment assumes vehicle emission rates and background pollutant concentrations from year 2025 as a worst case.
- 4.1.3 Table 7 outlines the predicted flows of construction traffic on the site haul routes. The data are presented for the 'with the Proposed Scheme' scenario only split in heavy goods vehicles (HGV) and articulated dump trucks (ADT).

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Table 5: Traffic data (AADT) used for the construction assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1251_1250, 1248_1249	376113, 396576	376633,396353	108,966	111,008	110,487	109,937	
1249_1252, 1254_1251	377447, 395971	376636,396378	136,728	138,298	137,813	137,447	
1255_1254, 1252_1253	377425, 395960	377597,395502	114,986	116,888	116,188	115,952	
1404_1406, 1406_1404	379226, 394577	379192,394899	15,403	16,629	16,473	15,925	
1458_1463, 1463_1458	386560, 393947	386469,393931	30,786	30,530	30,850	30,902	
90028_1472	385879, 397624	385803,397429	2,230	0	0	0	Realignment
1478_1479, 1479_1478	385723, 396789	385777,396921	17,043	18,091	16,818	16,813	
1479_1481, 1481_1479	385675, 396685	385723,396789	16,447	17,621	16,817	16,655	
1476_1494, 1494_1476	387191, 397508	387207,397175	31,876	33,384	33,790	33,620	
1506_1507, 1507_1506	387747, 398546	387954,398502	18,537	17,949	16,723	18,012	
1472_1511, 1511_1472	385998, 397614	385879,397624	27,947	30,496	28,176	27,137	
1604_1605, 1605_1604	385689, 390937	385921,391581	31,680	31,443	31,593	31,613	
1605_1649, 1649_1605	385522, 390468	385689,390937	35,402	34,997	35,363	35,382	
1648_1649, 1649_1648	385522, 390468	385472,390331	44,399	44,092	44,450	44,469	
1604_1651, 1651_1604	386090, 392189	385921,391581	32,482	32,361	32,583	32,631	
1653_1654, 1654_1653	386377, 393330	386277,392844	22,471	22,337	22,615	22,662	
4768_1708	391347, 397864	391464,397914	21,864	22,048	21,666	21,644	
1404_2308, 2308_1404	378936, 394926	379192,394899	16,825	17,913	17,760	17,203	
1509_2325, 2325_1509	386975, 398321	387143,398340	18,954	17,178	16,763	18,288	
2349_2833, 2833_2349	379131, 393317	378904,392760	46,573	47,676	47,339	47,047	
13026_2838, 2840_2837	380591, 392234	380300,392630	82,573	83,948	83,941	83,611	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2838_2839, 2840_2837	380727, 391907	380591,392234	141,919	144,075	143,856	143,480	
2846_2841, 2842_2845	381851, 390854	382952,390713	86,020	88,060	87,696	87,124	
2839_2842, 13031_2840	381854, 390875	380727,391907	157,185	159,030	158,790	158,392	
2843_2847, 2848_1348	382403, 390526	382670,391206	60,168	61,696	61,203	60,960	
2845_2849, 2850_2846	384129, 389261	382872,390775	108,019	109,767	109,575	109,156	
2853_2850	384397, 389123	385023,388821	17,174	18,409	18,055	17,801	
2849_2851	385389, 389015	384129,389261	16,300	17,426	17,045	16,886	
2849_2852, 2854_2850	384783, 389101	384129,389261	74,539	73,927	74,471	74,463	
2430_2853, 2887_2430	385023, 388821	385030,388368	82,210	85,583	85,151	84,072	
12816_2854, 12816_2854	384939, 389104	385141,389142	119,906	114,913	116,041	117,626	
2847_2855, 2844_2848	382350, 390231	382403,390526	133,663	135,308	134,820	134,617	
2855_2856, 2857_2844	382315, 389869	382350,390231	116,445	118,550	117,894	117,629	
2856_2859, 2858_2857	382257, 389439	382315,389869	133,850	136,465	135,677	135,411	
2859_2860, 2861_2858	382235, 388918	382257,389439	107,657	109,802	108,676	108,143	
2860_2863, 12843_2861	382107, 388563	382235,388918	129,163	131,019	129,322	128,775	
12845_2863	382107, 388563	382193,388682	27,941	26,687	26,656	26,853	
12844_2864, 2865_2862	381715, 387500	382017,388387	190,268	191,857	190,172	189,918	
5152_2865, 2864_32867	381719, 387580	381561,387246	105,230	104,074	103,756	104,120	
12817_2882	384540, 389052	384829,389085	38,788	39,321	38,653	38,838	
2881_2882, 2852_13101	384540, 389052	385060,389137	65,405	65,031	65,356	65,257	
2882_2884, 99977_2877	383316, 388784	384540,389052	94,395	93,702	93,403	93,825	
2885_2886, 99978_2880	385537, 389246	386060,389432	169,477	169,255	169,476	169,323	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2851_2887	385039, 388668	385389,389015	27,737	29,400	29,438	28,834	
5020_2956	389950, 390934	390167,391011	19,761	19,185	19,180	19,430	
12818_2962	388177, 390221	388048,390197	68,092	67,719	67,795	67,810	
12856_2964	388227, 390207	388500,390256	56,862	58,033	58,015	57,538	
2956_2965, 2966_2958	388813, 390337	389950,390934	149,225	150,554	150,663	150,065	
2842_3040, 2842_2845	382620, 390749	381854,390875	81,092	82,100	81,905	81,760	
1572_3111, 3111_1572	389928, 403901	389985,404183	28,918	29,956	30,073	29,751	
1253_3116, 3117_1255	377574, 394180	377626,395501	150,056	152,173	151,442	151,236	
13015_3117	377575, 394132	377750,393813	6,195	5,104	5,104	5,407	
1450_3296, 3296_1450	384205, 394090	383872,394068	14,264	15,684	15,980	15,675	
1494_3330, 3330_1494	386622, 397561	387191,397508	25,029	26,855	26,266	24,754	
1476_3331, 3331_1476	386609, 397458	387207,397175	3,162	4,178	3,037	2,834	
1651_3634, 3634_1651	386125, 392300	386090,392189	31,478	31,324	31,512	31,571	
1497_3706, 3706_1497	387240, 397749	387321,397789	12,343	12,132	12,002	11,818	
2430_3710, 3710_2430	385159, 387873	385030,388368	76,071	79,213	78,879	77,736	
1494_3779, 3779_1494	387193, 397579	387191,397508	31,199	33,054	33,749	32,098	
3706_3779, 3779_3706	387193, 397579	387240,397749	31,199	33,055	33,749	32,098	
1700_3856, 3856_1700	393666, 399331	393524,399317	16,890	16,974	16,732	16,708	
3710_3884, 1876_3710	385454, 387181	385159,387873	74,795	77,853	77,599	76,526	
1612_3905, 3905_1612	390184, 398105	390432,398099	20,877	21,118	21,164	20,901	
3819_3912, 3912_3819	389520, 403420	389583,403495	45,773	46,827	46,930	46,620	
1458_3924, 3924_1458	386439, 394078	386469,393931	16,941	16,503	16,392	16,485	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2958_3929, 3932_2956	391454, 391654	389943,390952	110,979	113,272	113,485	112,524	
3930_3932, 2958_3929	390750, 391478	391250,391537	103,979	106,232	106,465	105,523	
12821_3936, 9997_3927	391053, 395268	391603,392898	136,118	138,096	138,436	137,580	
1503_4045, 4045_1503	388859, 398302	389040,398261	17,535	17,277	16,699	17,365	
1621_4077, 4077_1621	378748, 392529	378605,392321	33,793	34,885	34,569	34,317	
2349_4077, 4077_2349	378748, 392529	378904,392760	33,793	34,885	34,569	34,317	
3111_4106, 4106_3111	389851, 403791	389928,403901	40,682	41,732	41,835	41,523	
3913_4106, 4106_3913	389851, 403791	389770,403705	40,682	41,732	41,835	41,523	
1494_4316, 4316_1494	387539, 397479	387191,397508	27,884	28,317	27,685	27,403	
1757_4321, 4321_1757	383811, 393278	383887,393703	56,685	57,931	57,786	57,708	
3441_4342, 4342_3441	385236, 389705	385125,389415	44,025	43,485	43,691	43,634	
1329_4344, 4344_1329	382981, 391874	383019,391947	82,124	83,261	82,991	82,889	
1667_4368, 4368_1667	382325, 392702	382133,392897	23,528	24,596	24,231	24,030	
4316_4386, 4386_4316	387811, 397452	387539,397479	27,884	28,318	27,685	27,403	
4045_4503, 4503_4045	388683, 398340	388859,398302	17,535	17,278	16,700	17,365	
1506_4734, 4734_1506	387976, 398497	387954,398502	18,607	18,489	17,550	18,123	
1508_4754, 4754_1508	387732, 398548	387632,398519	21,670	21,132	20,086	21,211	
4766_4768	391464, 397914	391519,397943	21,864	22,048	21,666	21,643	
1708_4769	391330, 397976	391347,397864	13,007	13,094	12,980	12,813	
4966_4955	376382, 396518	376350,396428	20,700	21,438	21,457	21,494	
4955_4956	376395, 396523	376382,396518	20,700	21,438	21,457	21,494	
1251_4963	376423, 396402	376633,396353	10,961	10,940	10,951	11,003	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
4963_4964	376405, 396393	376423,396402	28,237	28,190	28,287	28,388	
4964_4965	376369, 396402	376405,396393	14,974	15,755	15,764	15,778	
4965_4966	376350, 396428	376369,396402	32,642	33,951	33,962	33,870	
7605_4967	376588, 396907	376605,396856	1,565	1,747	1,738	1,733	
2958_5009	390138, 391094	389943,390952	18,484	18,102	18,105	18,237	
5021_5010	390200, 391128	390139,391161	16,492	15,954	15,999	16,191	
5012_5011	390294, 391062	390269,391103	23,939	23,260	23,284	23,476	
5010_5012	390269, 391103	390200,391128	40,527	39,749	39,804	39,995	
5011_5015	390290, 391031	390294,391062	40,111	39,388	39,479	39,646	
5015_5017	390229, 390994	390290,391031	28,787	28,208	28,256	28,393	
5017_5019	390189, 390998	390229,390994	37,089	36,341	36,436	36,648	
5019_5020	390167, 391011	390189,390998	43,132	42,085	42,166	42,496	
5009_5021	390139, 391161	390138,391094	17,547	16,837	16,916	17,164	
1628_5118, 5118_1628	382151, 389193	381655,389357	33,010	34,218	33,760	33,391	
5124_5125	383000, 388930	382962,388912	23,610	22,427	22,750	22,681	
2864_5130	381639, 387213	381715,387500	11,991	10,716	11,163	11,381	
5674_5677, 5676_5675	390418, 402723	389707,403167	103,597	104,644	105,125	104,486	
5677_5678, 5676_5675	390784, 402417	390418,402723	92,691	93,713	94,194	93,561	
5678_5679, 5680_5676	392451, 398787	390784,402417	127,581	129,008	129,515	128,744	
5679_5681, 5682_5680	392181, 397986	392451,398787	89,925	91,139	91,544	90,543	
5681_5683, 5682_5680	391795, 397665	392181,397986	100,336	101,739	101,932	101,162	
3936_5684, 5685_3937	390932, 396034	391053,395268	96,081	97,698	98,185	97,306	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
5683_5685, 5684_5682	390962, 396034	391795,397665	127,730	129,260	129,729	128,816	
1422_5933, 5933_1422	385584, 395701	385480,395851	19,618	18,928	18,752	19,044	
4348_5963, 5963_4348	386359, 394523	386287,394746	22,366	21,656	21,817	22,003	
2322_6051, 6051_2322	386517, 397570	386431,397576	28,191	30,809	28,722	27,544	
3330_6051, 6051_3330	386517, 397570	386622,397561	25,393	27,185	26,750	25,256	
3331_6051	386517, 397570	386609,397458	2,798	3,849	2,553	2,331	
1648_6108, 6108_1648	385437, 390231	385472,390331	59,303	59,037	59,334	59,315	
2325_6138, 6138_2325	386861, 398349	386975,398321	17,191	15,080	15,344	16,704	
6138_6139, 6139_6138	386733, 398351	386861,398349	17,191	15,080	15,344	16,704	
3625_6152, 6152_3625	391921, 398295	391830,398076	4,715	4,888	4,882	4,770	
6152_6154, 6154_6152	392076, 398624	391921,398295	12,898	12,964	12,933	12,856	
1700_6165, 6165_1700	393368, 399285	393524,399317	19,356	19,592	19,456	19,363	
6153_6165, 6165_6153	393368, 399285	393274,399365	14,704	14,819	14,689	14,643	
1460_6242, 6242_1460	386133, 395102	386234,394897	18,741	18,100	18,274	18,422	
1461_6242, 6242_1461	386133, 395102	386055,395254	18,741	18,100	18,274	18,422	
5021_6254, 6254_5021	390070, 391246	390139,391161	34,040	32,790	32,915	33,355	
1681_6257, 6257_1681	389991, 391364	389407,391364	30,261	28,059	28,230	28,960	
6254_6257, 6257_6254	389991, 391364	390070,391246	30,261	28,060	28,230	28,960	
3625_6306, 6306_3625	391725, 398025	391830,398076	41,337	41,553	41,241	41,081	
4526_6617, 6617_4526	387046, 398056	387017,398150	2,695	4,136	5,172	3,696	
4367_6646, 6646_4367	382827, 392273	382710,392355	20,656	21,805	21,410	21,201	
6147_6646, 6646_6147	382827, 392273	382925,392197	20,656	21,806	21,411	21,203	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2345_6654, 6654_2345	376316, 395949	376371,395704	29,942	30,963	30,999	30,746	
1637_6681, 6681_1637	381454, 390641	381440,390651	20,129	21,225	21,023	20,879	
4321_7124, 7124_4321	383800, 393254	383811,393278	56,685	57,932	57,795	57,706	
4507_7287, 7287_4507	380953, 389349	380930,389347	19,785	21,036	20,650	20,315	
1628_7287, 7287_1628	380953, 389349	381655,389357	19,759	21,011	20,624	20,289	
7606_7604	376650, 396871	376703,396957	18,935	19,270	19,271	19,347	
7604_7605	376605, 396856	376650,396871	21,703	22,128	22,134	22,199	
1503_7625, 7625_1503	389064, 398257	389040,398261	19,570	19,370	19,116	19,460	
3284_8003, 8003_3284	380867, 391281	380892,391137	15,649	16,801	16,558	16,413	
4048_8003, 8003_4048	380867, 391281	380756,391371	15,760	17,029	16,796	16,663	
1622_8004, 8004_1622	380396, 391472	380678,391416	12,387	13,400	13,292	13,147	
1407_8008, 8008_1407	379235, 394508	379253,394371	17,184	18,242	18,151	17,676	
6154_8444, 8444_6154	392239, 398845	392076,398624	12,898	12,964	12,933	12,856	
4023_8454, 8454_4023	389991, 398131	389972,398133	16,569	16,496	16,471	16,472	
3905_8454, 8454_3905	389991, 398131	390184,398105	19,051	19,315	19,381	19,126	
4769_8456, 8456_4769	391120, 398003	391330,397976	22,114	21,941	22,005	21,838	
4387_8573, 8573_4387	386395, 397579	386335,397585	27,638	30,006	27,909	26,894	
2322_8573, 8573_2322	386395, 397579	386431,397576	28,191	30,809	28,722	27,544	
6617_8574, 8574_6617	387149, 397824	387046,398056	6,166	7,599	8,715	7,389	
1497_8575, 8575_1497	387531, 397861	387321,397789	12,344	12,132	12,002	11,818	
6624_8578, 8578_6624	388140, 397422	388063,397429	29,022	29,397	28,688	28,308	
4348_8684, 8684_4348	386257, 394832	386287,394746	22,366	21,656	21,817	22,003	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1460_8684, 8684_1460	386257, 394832	386234,394897	26,280	25,595	25,758	25,908	
3296_8688, 8688_3296	384342, 394108	384205,394090	15,764	16,975	17,164	16,944	
7127_8705, 8705_7127	386416, 394206	386402,394285	20,066	19,560	19,616	19,790	
3634_8718, 8718_3634	386188, 392526	386125,392300	33,691	33,546	33,637	33,743	
6108_8735, 8735_6108	385281, 389825	385437,390231	44,257	43,972	44,182	44,126	
1637_8736, 8736_1637	381235, 390771	381440,390651	20,129	21,225	21,023	20,880	
4515_8736, 8736_4515	381235, 390771	381088,390849	19,918	21,001	20,744	20,613	
4368_8779, 8779_4368	382577, 392451	382325,392702	23,528	24,596	24,231	24,029	
4489_8789, 8789_4489	382879, 391638	382835,391538	82,426	83,656	83,347	83,258	
4344_8789, 8789_4344	382879, 391638	382981,391874	82,124	83,260	82,990	82,889	
6306_8952, 8952_6306	391576, 397961	391725,398025	41,336	41,553	41,241	41,081	
4766_8952, 8952_4766	391576, 397961	391519,397943	40,759	40,983	40,672	40,512	
1509_8966, 8966_1509	387425, 398441	387143,398340	22,397	21,971	21,089	21,841	
4386_8968, 8968_4386	387946, 397440	387811,397452	27,877	28,311	27,679	27,396	
6624_8968, 8968_6624	387946, 397440	388063,397429	27,877	28,311	27,679	27,396	
6158_9006, 9006_6158	393111, 399307	392885,399286	7,457	7,555	7,412	7,382	
3937_9997	391122, 394817	391091,395064	64,924	66,704	66,911	66,128	
2886_12816, 99979_2879	385141, 389142	385537,389246	151,417	151,533	151,556	151,678	
12816_12817	384829, 389085	385141,389142	17,316	19,617	18,780	18,235	
2854_12817	384829, 389085	384939,389104	21,471	19,704	19,873	20,603	
2880_12818, 2964_2885	388048, 390197	385917,389418	146,539	147,054	147,110	146,640	
3929_12820, 3927_3930	391683, 392404	391454,391654	110,080	112,379	112,660	111,673	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2862_12842, 12844_2864	382023, 388484	381960,388340	127,153	128,098	126,988	126,864	
12843_12842	382023, 388484	381979,388379	6,053	5,060	5,660	6,026	
2862_12843	381979, 388379	381960,388340	63,115	63,762	63,185	63,052	
2863_12844, 2862_12842	382017, 388387	382107,388563	120,562	120,843	119,908	119,848	
2884_12845, 12842_2876	382193, 388682	383316,388784	62,101	63,310	62,636	62,728	
1250_12846, 1250_12846	375902, 396677	376113,396576	104,905	107,671	107,242	106,682	
12847_12846, 1250_12846	375902, 396677	376220,396514	64,394	66,349	66,126	65,716	
2965_12856, 2962_2966	388500, 390256	388813,390337	114,794	115,772	115,789	115,297	
5675_12858, 5674_5677	389560, 403300	390081,402846	85,996	87,014	87,505	86,875	
3116_13016, 13017_3117	377939, 393781	377574,394180	130,460	134,491	133,801	133,196	
13016_13030, 2837_13017	380477, 392432	377939,393781	110,819	113,290	112,984	112,507	
2841_13031, 2839_2842	381724, 390874	381851,390854	139,066	140,711	140,502	140,152	
2877_13100	384681, 389112	384513,389154	38,080	37,964	38,156	38,201	
2852_13101	384930, 389121	384783,389101	55,980	56,114	56,466	56,311	
5125_14004, 14004_5125	383001, 388956	383000,388930	15,831	14,734	14,753	14,840	
8782_14004, 14004_8782	383001, 388956	383056,389135	15,831	14,734	14,753	14,840	
8718_14024, 14024_8718	386192, 392541	386188,392526	32,547	32,349	32,519	32,621	
1653_14024, 14024_1653	386192, 392541	386277,392844	32,547	32,349	32,519	32,621	
1859_14054, 14054_1859	389485, 391000	389523,390769	15,386	16,680	16,530	16,165	
8900_14054, 14054_8900	389485, 391000	389485,391006	15,387	16,680	16,530	16,165	
4387_14253, 14253_4387	386234, 397594	386335,397585	27,638	30,006	27,909	26,894	
5933_14334, 14334_5933	385622, 395659	385584,395701	19,618	18,928	18,752	19,044	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
8791_14334, 14334_8791	385622, 395659	385695,395587	19,618	18,928	18,752	19,044	
8791_14335, 14335_8791	385822, 395469	385695,395587	17,712	17,101	16,965	17,192	
4399_14335, 14335_4399	385822, 395469	385872,395423	17,718	17,107	16,971	17,199	
4399_14336, 14336_4399	385887, 395408	385872,395423	17,717	17,106	16,971	17,199	
14336_14337, 14337_14336	385986, 395317	385887,395408	17,717	17,106	16,971	17,199	
1461_14337, 14337_1461	385986, 395317	386055,395254	17,723	17,112	16,978	17,205	
5963_14338, 14338_5963	386372, 394454	386359,394523	21,339	20,746	20,803	21,019	
7127_14338, 14338_7127	386372, 394454	386402,394285	21,339	20,746	20,803	21,019	
8705_14339, 14339_8705	386425, 394147	386416,394206	16,930	16,491	16,378	16,472	
3924_14339, 14339_3924	386425, 394147	386439,394078	16,941	16,503	16,392	16,485	
1463_14340, 14340_1463	386548, 393903	386560,393947	25,227	25,029	25,401	25,413	
4512_14340, 14340_4512	386548, 393903	386529,393842	25,221	25,023	25,395	25,407	
4512_14341, 14341_4512	386386, 393383	386529,393842	25,221	25,023	25,395	25,406	
1654_14341, 14341_1654	386386, 393383	386377,393330	25,221	25,023	25,395	25,406	
1422_14400, 14400_1422	385390, 395980	385480,395851	17,415	16,839	16,648	16,850	
7114_14506, 14506_7114	386398, 398380	386233,398436	15,289	13,914	13,747	15,405	
14506_14507, 14507_14506	386504, 398348	386398,398380	18,986	17,344	17,349	19,018	
6139_14507, 14507_6139	386504, 398348	386733,398351	17,191	15,080	15,344	16,704	
8966_14593, 14593_8966	387591, 398504	387425,398441	22,397	21,971	21,089	21,841	
1508_14593, 14593_1508	387591, 398504	387632,398519	22,397	21,970	21,089	21,841	
4734_14595, 14595_4734	388078, 398475	387976,398497	18,607	18,489	17,550	18,123	
8579_14595, 14595_8579	388078, 398475	388372,398411	18,607	18,490	17,550	18,123	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1501_14596, 14596_1501	389757, 398161	389376,398212	15,325	15,369	15,403	15,361	
8455_14596, 14596_8455	389757, 398161	389796,398157	15,325	15,369	15,404	15,361	
8455_14597, 14597_8455	389921, 398140	389796,398157	16,569	16,496	16,471	16,473	
4023_14597, 14597_4023	389921, 398140	389972,398133	16,569	16,496	16,471	16,472	
6364_14598, 14598_6364	391065, 398010	390715,398057	24,083	24,041	24,135	23,941	
8456_14598, 14598_8456	391065, 398010	391120,398003	24,083	24,041	24,135	23,941	
6156_14600, 14600_6156	392530, 399046	392651,399236	13,723	13,801	13,768	13,690	
8444_14605, 14605_8444	392445, 398956	392239,398845	13,723	13,799	13,768	13,692	
9006_14606, 14606_9006	393170, 399321	393111,399307	7,457	7,555	7,412	7,382	
6153_14606, 14606_6153	393170, 399321	393274,399365	7,457	7,556	7,412	7,382	
7625_14607, 14607_7625	389213, 398237	389064,398257	14,751	14,596	14,515	14,678	
1501_14607, 14607_1501	389213, 398237	389376,398212	14,751	14,596	14,515	14,677	
1612_14608, 14608_1612	390535, 398085	390432,398099	22,958	23,157	23,275	23,000	
6364_14608, 14608_6364	390535, 398085	390715,398057	22,945	23,144	23,262	22,987	
4515_14611, 14611_4515	380992, 390937	381088,390849	19,918	21,001	20,744	20,613	
4507_14613, 14613_4507	380515, 389388	380930,389347	19,785	21,036	20,650	20,315	
1846_14615, 14615_1846	381731, 388228	382023,388115	17,420	18,423	18,352	18,088	
8579_15107, 15107_8579	388443, 398395	388372,398411	17,490	17,254	16,460	17,122	
4503_15107, 15107_4503	388443, 398395	388683,398340	17,535	17,278	16,700	17,365	
8779_15125, 15125_8779	382694, 392367	382577,392451	20,643	21,792	21,396	21,187	
4367_15125, 15125_4367	382694, 392367	382710,392355	20,656	21,806	21,410	21,201	
8735_15134, 15134_8735	385244, 389726	385281,389825	44,624	44,153	44,354	44,267	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
4342_15134, 15134_4342	385244, 389726	385236,389705	44,025	43,485	43,691	43,634	
3042_15348, 15348_3042	382819, 391508	382750,391375	82,413	83,645	83,334	83,246	
4489_15348, 15348_4489	382819, 391508	382835,391538	82,426	83,658	83,347	83,259	
4967_30743, 32743_7603	376487, 396938	376588,396907	5,906	5,900	5,953	5,914	
34112_31269, 34112_31269	383999, 384945	384057,384884	44,458	46,247	46,156	45,557	
31372_31373, 31373_31372	375963, 397124	375679,396963	6,912	6,894	6,955	6,950	
31372_31375, 31375_31372	375767, 396843	375679,396963	18,229	19,305	19,321	19,255	
31373_31377, 31377_31373	376152, 397070	375963,397124	6,912	6,894	6,955	6,950	
31374_31377, 31377_31374	376152, 397070	376341,397017	6,912	6,894	6,955	6,950	
31375_31379, 31379_31375	375977, 396684	375767,396843	18,228	19,305	19,320	19,255	
4956_31379, 31379_4956	375977, 396684	376395,396523	18,229	19,305	19,320	19,255	
31374_32743, 30743_31374	376527, 396980	376341,397017	5,906	5,900	5,953	5,914	
2864_32867, 42841_2865	381299, 386788	381715,387500	167,390	171,398	168,895	168,102	
32866_42841, 32867_35926	381149, 386684	381075,386600	130,939	136,513	132,545	131,327	
31269_43284, 43284_31266	383890, 385040	383999,384945	43,712	45,205	45,099	44,635	
43283_43885, 43885_43283	383882, 384900	383850,384820	11,865	13,620	13,450	12,673	
43284_43885, 43885_43284	383882, 384900	383890,385040	21,345	22,965	22,775	22,091	
3623_90004, 90004_3623	385743, 397339	385741,397366	25,861	27,671	24,078	24,524	
1477_90004, 90004_1477	385743, 397339	385752,397280	25,861	27,671	24,078	24,524	
3623_90028, 90028_3623	385803, 397429	385741,397366	2,369	339	342	344	
1511_90040, 90040_1511	386134, 397600	385998,397614	27,944	30,493	28,173	27,134	
14253_90040, 90040_14253	386134, 397600	386234,397594	27,641	30,010	27,912	26,897	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2876_99977, 2882_2884	383522, 388864	383306,388801	95,653	96,264	95,617	95,833	
2879_99978, 2885_2886	385680, 389327	385462,389244	173,765	174,519	174,744	174,435	
13101_99979, 13101_99979	385043, 389147	384930,389121	148,295	148,137	148,960	148,978	
3874_3877, 3889_3874	385736, 386864	386198,385485	56,151	57,798	57,841	57,205	
3884_3889, 3877_1876	385741, 386876	385454,387181	49,908	51,404	51,350	50,731	
5188_5189	385624, 387033	385599,387074	15,968	17,213	17,192	16,760	
5189_5190	385581, 386983	385624,387033	12,018	13,115	13,060	12,649	
5190_5191	385555, 386972	385581,386983	14,316	15,415	15,421	15,016	
13442_13441	386814, 384392	386825,384501	32,550	33,711	33,959	33,554	
31155_31157, 31158_31156	385163, 384394	384865,384447	43,712	45,205	45,099	44,636	
31288_31281	386861, 384724	386835,384744	37,834	39,069	39,285	38,727	
31281_31282	386863, 384699	386861,384724	22,087	23,348	23,626	23,083	
31282_31283	386844, 384679	386863,384699	39,380	40,852	40,929	40,465	
35305_31284, 31283_13442	386820, 384676	386799,384403	63,148	64,745	64,919	64,357	
31289_31288	386835, 384744	386711,384888	28,231	29,313	29,557	29,065	
3874_31289, 34111_3874	386711, 384888	386198,385485	56,152	57,798	57,841	57,205	
33017_33876, 33882_33019	387074, 384198	386509,384482	26,356	27,919	27,924	27,283	
33019_33933, 33885_33017	385911, 384507	386506,384471	34,777	36,430	36,359	35,579	
13441_35306	386827, 384373	386814,384392	38,882	39,900	40,150	39,675	
35306_35307	386791, 384293	386827,384373	23,547	24,952	25,299	24,699	
1500_2907, 2907_1500	389545, 397351	389510,397351	24,437	24,342	23,460	23,633	
3038_3120, 3120_3038	388351, 397403	388191,397417	29,456	29,241	28,260	28,549	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1476_3825, 3825_1476	387192, 396973	387207,397175	35,038	35,963	36,782	36,452	
1241_3832, 3832_1241	389155, 395877	388912,395948	36,835	37,410	37,938	37,669	
1478_4518, 4518_1478	385776, 397169	385777,396921	18,531	18,855	16,204	16,540	
3625_5655, 5655_3625	391981, 398158	391830,398076	37,819	37,854	37,554	37,507	
5655_5656, 5656_5655	392078, 397967	391981,398158	25,367	25,335	25,376	25,239	
5673_5674, 12858_5672	389707, 403167	388833,403463	70,763	71,468	71,822	71,546	
4052_6243, 6243_4052	389836, 397343	390175,397316	23,050	23,043	22,312	22,506	
3867_6687, 6687_3867	381061, 388414	381126,388424	16,554	17,134	17,573	17,583	
3888_6687, 6687_3888	381061, 388414	380916,388357	16,496	17,075	17,509	17,520	
1499_7117, 7117_1499	388414, 397397	388559,397384	28,622	28,444	27,369	27,708	
3120_7117, 7117_3120	388414, 397397	388351,397403	26,545	26,234	25,086	25,472	
1499_7118, 7118_1499	388760, 397376	388559,397384	26,804	26,420	25,082	25,415	
3287_7118, 7118_3287	388760, 397376	388780,397375	26,629	26,338	24,821	25,196	
6637_7134, 7134_6637	387402, 396020	387325,395986	8,132	8,906	9,161	9,127	
1201_7136, 7136_1201	387203, 396485	387062,396536	24,180	24,522	25,373	24,892	
2319_7137, 7137_2319	387394, 396717	387280,396952	3,501	3,945	4,620	4,230	
6688_7145, 7145_6688	380464, 387836	380393,388164	12,477	12,752	13,546	13,374	
1729_7550, 7550_1729	389283, 397356	389240,397357	24,549	24,193	23,388	23,734	
4052_7554, 7554_4052	390561, 397471	390175,397316	23,050	23,043	22,312	22,506	
1710_7554, 7554_1710	390561, 397471	390628,397494	30,203	30,352	29,500	29,925	
1708_8457, 8457_1708	391211, 397802	391347,397864	18,796	19,161	18,770	18,819	
1710_8457, 8457_1710	391211, 397802	390628,397494	13,699	14,341	14,080	14,138	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1710_8493, 8493_1710	391046, 397441	390628,397494	16,676	16,194	15,600	15,970	
3287_8577, 8577_3287	388937, 397369	388780,397375	26,637	26,352	24,838	25,209	
3038_8578, 8578_3038	388140, 397422	388191,397417	29,456	29,241	28,261	28,550	
6243_8656, 8656_6243	389584, 397351	389836,397343	23,050	23,043	22,312	22,506	
2907_8656, 8656_2907	389584, 397351	389545,397351	24,437	24,342	23,461	23,633	
1487_8660, 8660_1487	387953, 396778	388726,396252	6,619	7,210	7,810	7,624	
6637_8675, 8675_6637	387241, 395950	387325,395986	7,473	8,314	8,529	8,513	
6682_8744, 8744_6682	380634, 388868	380670,388790	7,432	8,087	8,437	8,144	
3867_8747, 8747_3867	381301, 388418	381126,388424	13,491	14,430	14,633	14,434	
1634_8748, 8748_1634	380478, 388427	380824,388530	5,859	6,586	6,902	6,886	
13100_13101	384930, 389121	384681,389112	18,175	18,108	18,043	18,409	
1528_14161, 14161_1528	387012, 400403	387083,400449	20,120	19,540	18,906	19,432	
8659_14167, 14167_8659	388736, 396865	388849,396378	13,302	13,808	14,342	14,148	
1498_14167, 14167_1498	388736, 396865	388669,397100	13,302	13,807	14,342	14,148	
4487_14318, 14318_4487	389139, 397361	389095,397363	24,723	24,428	23,099	23,351	
1729_14318, 14318_1729	389139, 397361	389240,397357	24,730	24,439	23,112	23,361	
8577_14404, 14404_8577	388996, 397368	388937,397369	24,723	24,428	23,099	23,351	
4487_14404, 14404_4487	388996, 397368	389095,397363	24,723	24,428	23,099	23,351	
1506_14594, 14594_1506	387945, 398461	387954,398502	8,323	8,755	9,648	8,772	
1500_15109, 15109_1500	389392, 397354	389510,397351	23,463	23,306	22,418	22,648	
7550_15109, 15109_7550	389392, 397354	389283,397356	23,942	23,605	22,726	22,996	
1477_90015, 90015_1477	385765, 397219	385752,397280	19,161	19,453	16,801	17,151	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		AADT				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
4518_90015, 90015_4518	385765, 397219	385776,397169	18,531	18,855	16,204	16,540	
1478_90016, 90016_1478	385634, 396966	385777,396921	18,978	19,419	20,498	20,084	
31984_31158	385163, 384381	385550,384393	8,614	9,437	9,733	9,407	
35307_35308	386773, 384287	386791,384293	36,526	37,212	37,594	37,356	
13100_2852	384783, 389101	384681,389112	19,905	20,011	20,133	20,051	
1825_7145, 7145_1825	380464, 387836	380717,387199	4,165	3,873	3,173	3,149	
12846_1247, 26792_1248	375368, 397542	375902,396677	129,941	132,459	131,972	131,340	
1517_1502, 1502_1517	386201, 399004	386614,399327	14,347	12,677	11,199	12,784	
7114_1510, 1510_7114	385927, 398456	386233,398436	14,214	12,840	11,920	13,702	
1517_1512, 1512_1517	386410, 399496	386614,399327	25,553	24,298	23,133	24,271	
1472_2939, 2939_1472	385708, 397636	385879,397624	25,882	30,459	28,144	27,094	
1315_3371, 3371_1315	379426, 389126	379536,389279	29,414	30,814	30,221	30,097	
14400_4397, 4397_14400	385190, 396268	385390,395980	17,415	16,839	16,648	16,850	
1481_4855, 4855_1481	385310, 397013	385675,396685	14,712	13,192	13,573	14,193	
7115_7116, 7116_7115	385636, 397839	386078,398212	3,775	2,450	2,399	2,572	
31372_31371, 31371_31372	375448, 397367	375679,396963	25,142	26,201	26,276	26,207	
32867_35926, 32869_32866	380781, 386174	381299,386788	112,179	116,893	113,454	112,280	
43283_43282, 43282_43283	383830, 384630	383850,384820	11,865	13,621	13,450	12,673	
3623_90000, 90000_3623	385724, 397552	385741,397366	23,775	27,808	0	0	Realignment
1477_90021, 90021_1477	385443, 397251	385752,397280	7,249	8,930	8,817	9,037	
31156_31154, 31153_31155	384663, 384453	384872,384434	43,712	45,205	45,099	44,636	
31266_31265, 31264_34112	384367, 384578	384004,384959	43,712	45,205	45,099	44,635	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates	AADT				Notes
		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
3623_90060, 90060_3623	385643, 397524 385741,397366	0	0	24,044	24,489	Realignment
90016_4854, 4854_90016	385353, 397054 385634,396966	19,779	19,941	21,014	20,618	
5672_5671, 5670_5673	386172, 404464 389062,403473	96,983	97,744	98,098	97,803	
7115_6616, 6616_7115	385871, 398350 386078,398212	1,645	2,228	2,784	2,467	
7114_8583, 8583_7114	386174, 398641 386233,398436	4,514	5,375	6,044	4,934	

Table 6: Traffic data (HDV) used for the construction assessment

Road ID	Start and end coordinates	HDV				Notes
		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1251_1250, 1248_1249	376113, 396576 376633,396353	3,906	3,354	3,363	3,189	
1249_1252, 1254_1251	377447, 395971 376636,396378	5,028	5,244	5,264	5,089	
1255_1254, 1252_1253	377425, 395960 377597,395502	3,825	4,083	4,100	3,921	
1404_1406, 1406_1404	379226, 394577 379192,394899	1,069	1,063	1,068	1,069	
1458_1463, 1463_1458	386560, 393947 386469,393931	523	859	561	572	
90028_1472	385879, 397624 385803,397429	39	0	0	0	Realignment
1478_1479, 1479_1478	385723, 396789 385777,396921	216	204	182	214	
1479_1481, 1481_1479	385675, 396685 385723,396789	211	199	190	207	
1476_1494, 1494_1476	387191, 397508 387207,397175	737	761	805	788	
1506_1507, 1507_1506	387747, 398546 387954,398502	532	780	528	536	
1472_1511, 1511_1472	385998, 397614 385879,397624	964	1,390	1,254	1,245	
1604_1605, 1605_1604	385689, 390937 385921,391581	575	926	618	622	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1605_1649, 1649_1605	385522, 390468	385689,390937	616	971	656	662	
1648_1649, 1649_1648	385522, 390468	385472,390331	1,168	1,537	1,219	1,227	
1604_1651, 1651_1604	386090, 392189	385921,391581	539	890	583	587	
1653_1654, 1654_1653	386377, 393330	386277,392844	488	826	516	528	
4768_1708	391347, 397864	391464,397914	623	851	750	740	
1404_2308, 2308_1404	378936, 394926	379192,394899	274	269	271	240	
1509_2325, 2325_1509	386975, 398321	387143,398340	562	779	523	549	
2349_2833, 2833_2349	379131, 393317	378904,392760	1,732	1,741	1,729	1,719	
13026_2838, 2840_2837	380591, 392234	380300,392630	6,024	6,202	6,165	6,099	
2838_2839, 2840_2837	380727, 391907	380591,392234	7,832	8,083	8,017	7,919	
2846_2841, 2842_2845	381851, 390854	382952,390713	6,044	6,311	6,257	6,165	
2839_2842, 13031_2840	381854, 390875	380727,391907	8,630	8,884	8,832	8,735	
2843_2847, 2848_1348	382403, 390526	382670,391206	1,766	1,794	1,776	1,795	
2845_2849, 2850_2846	384129, 389261	382872,390775	7,764	8,009	7,957	7,865	
2853_2850	384397, 389123	385023,388821	1,187	1,208	1,210	1,214	
2849_2851	385389, 389015	384129,389261	900	905	904	900	
2849_2852, 2854_2850	384783, 389101	384129,389261	5,684	5,900	5,848	5,757	
2430_2853, 2887_2430	385023, 388821	385030,388368	3,913	3,908	3,909	3,902	
12816_2854, 12816_2854	384939, 389104	385141,389142	7,559	8,187	8,065	7,955	
2847_2855, 2844_2848	382350, 390231	382403,390526	4,737	4,792	4,748	4,731	
2855_2856, 2857_2844	382315, 389869	382350,390231	3,178	3,219	3,230	3,233	
2856_2859, 2858_2857	382257, 389439	382315,389869	3,997	4,132	4,054	4,051	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2859_2860, 2861_2858	382235, 388918	382257,389439	2,635	2,777	2,691	2,678	
2860_2863, 12843_2861	382107, 388563	382235,388918	3,194	3,351	3,260	3,246	
12845_2863	382107, 388563	382193,388682	1,217	1,588	1,442	1,380	
12844_2864, 2865_2862	381715, 387500	382017,388387	6,339	7,159	6,857	6,727	
5152_2865, 2864_32867	381719, 387580	381561,387246	3,472	3,836	3,770	3,730	
12817_2882	384540, 389052	384829,389085	1,569	1,854	1,793	1,741	
2881_2882, 2852_13101	384540, 389052	385060,389137	3,479	3,932	3,518	3,831	
2882_2884, 99977_2877	383316, 388784	384540,389052	4,619	5,386	5,060	4,941	
2885_2886, 99978_2880	385537, 389246	386060,389432	10,894	11,523	11,431	11,199	
2851_2887	385039, 388668	385389,389015	1,782	1,754	1,753	1,752	
5020_2956	389950, 390934	390167,391011	1,026	1,430	1,369	1,233	
12818_2962	388177, 390221	388048,390197	3,886	4,218	4,173	4,039	
12856_2964	388227, 390207	388500,390256	2,828	3,199	3,145	3,034	
2956_2965, 2966_2958	388813, 390337	389950,390934	5,829	6,586	6,474	6,221	
2842_3040, 2842_2845	382620, 390749	381854,390875	3,811	3,965	3,919	3,855	
1572_3111, 3111_1572	389928, 403901	389985,404183	1,735	1,741	1,756	1,737	
1253_3116, 3117_1255	377574, 394180	377626,395501	5,314	5,553	5,572	5,398	
13015_3117	377575, 394132	377750,393813	68	106	113	68	
1450_3296, 3296_1450	384205, 394090	383872,394068	190	194	200	199	
1494_3330, 3330_1494	386622, 397561	387191,397508	833	1,014	1,086	1,095	
1476_3331, 3331_1476	386609, 397458	387207,397175	64	101	83	85	
1651_3634, 3634_1651	386125, 392300	386090,392189	540	891	584	588	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1497_3706, 3706_1497	387240, 397749	387321,397789	504	285	306	494	
2430_3710, 3710_2430	385159, 387873	385030,388368	2,751	2,738	2,735	2,730	
1494_3779, 3779_1494	387193, 397579	387191,397508	934	683	796	981	
3706_3779, 3779_3706	387193, 397579	387240,397749	934	683	796	981	
1700_3856, 3856_1700	393666, 399331	393524,399317	434	695	436	434	
3710_3884, 1876_3710	385454, 387181	385159,387873	2,698	2,686	2,682	2,678	
1612_3905, 3905_1612	390184, 398105	390432,398099	396	660	403	400	
3819_3912, 3912_3819	389520, 403420	389583,403495	1,999	1,995	1,998	1,993	
1458_3924, 3924_1458	386439, 394078	386469,393931	330	676	366	384	
2958_3929, 3932_2956	391454, 391654	389943,390952	3,656	3,617	3,702	3,744	
3930_3932, 2958_3929	390750, 391478	391250,391537	3,104	3,069	3,149	3,195	
12821_3936, 9997_3927	391053, 395268	391603,392898	3,858	3,947	4,018	4,052	
1503_4045, 4045_1503	388859, 398302	389040,398261	508	765	510	511	
1621_4077, 4077_1621	378748, 392529	378605,392321	1,195	1,204	1,195	1,185	
2349_4077, 4077_2349	378748, 392529	378904,392760	1,195	1,204	1,195	1,185	
3111_4106, 4106_3111	389851, 403791	389928,403901	1,784	1,781	1,784	1,778	
3913_4106, 4106_3913	389851, 403791	389770,403705	1,784	1,781	1,784	1,778	
1494_4316, 4316_1494	387539, 397479	387191,397508	752	1,161	1,222	1,035	
1757_4321, 4321_1757	383811, 393278	383887,393703	998	974	975	977	
3441_4342, 4342_3441	385236, 389705	385125,389415	1,024	1,369	1,058	1,078	
1329_4344, 4344_1329	382981, 391874	383019,391947	2,061	2,075	2,059	2,083	
1667_4368, 4368_1667	382325, 392702	382133,392897	968	999	998	998	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
4316_4386, 4386_4316	387811, 397452	387539,397479	752	1,161	1,222	1,035	
4045_4503, 4503_4045	388683, 398340	388859,398302	508	765	510	511	
1506_4734, 4734_1506	387976, 398497	387954,398502	524	780	524	526	
1508_4754, 4754_1508	387732, 398548	387632,398519	559	810	562	564	
4766_4768	391464, 397914	391519,397943	623	851	750	740	
1708_4769	391330, 397976	391347,397864	300	527	428	421	
4966_4955	376382, 396518	376350,396428	780	1,513	1,504	1,504	
4955_4956	376395, 396523	376382,396518	780	1,513	1,504	1,504	
1251_4963	376423, 396402	376633,396353	474	1,201	1,195	1,188	
4963_4964	376405, 396393	376423,396402	1,483	2,192	2,186	2,180	
4964_4965	376369, 396402	376405,396393	926	1,638	1,632	1,625	
4965_4966	376350, 396428	376369,396402	1,326	2,030	2,022	2,023	
7605_4967	376588, 396907	376605,396856	464	691	684	690	
2958_5009	390138, 391094	389943,390952	1,149	1,547	1,491	1,354	
5021_5010	390200, 391128	390139,391161	506	944	872	731	
5012_5011	390294, 391062	390269,391103	1,345	1,745	1,682	1,549	
5010_5012	390269, 391103	390200,391128	1,798	2,234	2,167	2,025	
5011_5015	390290, 391031	390294,391062	1,639	2,102	2,032	1,888	
5015_5017	390229, 390994	390290,391031	1,404	1,835	1,767	1,625	
5017_5019	390189, 390998	390229,390994	1,321	1,757	1,686	1,545	
5019_5020	390167, 391011	390189,390998	1,507	1,940	1,870	1,729	
5009_5021	390139, 391161	390138,391094	351	787	715	574	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1628_5118, 5118_1628	382151, 389193	381655,389357	1,071	1,116	1,125	1,110	
5124_5125	383000, 388930	382962,388912	1,666	1,597	1,601	1,611	
2864_5130	381639, 387213	381715,387500	364	362	326	328	
5674_5677, 5676_5675	390418, 402723	389707,403167	4,847	4,832	4,838	4,841	
5677_5678, 5676_5675	390784, 402417	390418,402723	4,525	4,510	4,512	4,517	
5678_5679, 5680_5676	392451, 398787	390784,402417	5,408	5,393	5,395	5,399	
5679_5681, 5682_5680	392181, 397986	392451,398787	3,595	3,597	3,523	3,597	
5681_5683, 5682_5680	391795, 397665	392181,397986	3,785	3,787	3,713	3,789	
3936_5684, 5685_3937	390932, 396034	391053,395268	2,577	2,760	2,822	2,812	
5683_5685, 5684_5682	390962, 396034	391795,397665	4,319	4,507	4,494	4,557	
1422_5933, 5933_1422	385584, 395701	385480,395851	425	717	437	444	
4348_5963, 5963_4348	386359, 394523	386287,394746	418	748	450	455	
2322_6051, 6051_2322	386517, 397570	386431,397576	896	1,115	1,168	1,180	
3330_6051, 6051_3330	386517, 397570	386622,397561	845	1,031	1,119	1,130	
3331_6051	386517, 397570	386609,397458	52	84	50	51	
1648_6108, 6108_1648	385437, 390231	385472,390331	790	1,174	849	867	
2325_6138, 6138_2325	386861, 398349	386975,398321	558	788	526	558	
6138_6139, 6139_6138	386733, 398351	386861,398349	558	788	526	558	
3625_6152, 6152_3625	391921, 398295	391830,398076	161	420	164	160	
6152_6154, 6154_6152	392076, 398624	391921,398295	370	623	370	367	
1700_6165, 6165_1700	393368, 399285	393524,399317	322	583	325	322	
6153_6165, 6165_6153	393368, 399285	393274,399365	271	530	274	270	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1460_6242, 6242_1460	386133, 395102	386234,394897	344	664	358	364	
1461_6242, 6242_1461	386133, 395102	386055,395254	344	664	358	364	
5021_6254, 6254_5021	390070, 391246	390139,391161	857	1,731	1,588	1,305	
1681_6257, 6257_1681	389991, 391364	389407,391364	788	783	783	785	
6254_6257, 6257_6254	389991, 391364	390070,391246	788	783	783	785	
3625_6306, 6306_3625	391725, 398025	391830,398076	1,208	1,632	1,431	1,410	
4526_6617, 6617_4526	387046, 398056	387017,398150	174	194	185	189	
4367_6646, 6646_4367	382827, 392273	382710,392355	937	968	967	967	
6147_6646, 6646_6147	382827, 392273	382925,392197	937	968	967	967	
2345_6654, 6654_2345	376316, 395949	376371,395704	907	908	905	912	
1637_6681, 6681_1637	381454, 390641	381440,390651	1,101	1,113	1,112	1,104	
4321_7124, 7124_4321	383800, 393254	383811,393278	998	974	975	977	
4507_7287, 7287_4507	380953, 389349	380930,389347	831	872	882	864	
1628_7287, 7287_1628	380953, 389349	381655,389357	805	846	856	838	
7606_7604	376650, 396871	376703,396957	1,463	1,670	1,663	1,667	
7604_7605	376605, 396856	376650,396871	1,595	1,799	1,792	1,797	
1503_7625, 7625_1503	389064, 398257	389040,398261	530	788	530	531	
3284_8003, 8003_3284	380867, 391281	380892,391137	290	303	302	294	
4048_8003, 8003_4048	380867, 391281	380756,391371	250	264	263	255	
1622_8004, 8004_1622	380396, 391472	380678,391416	132	140	138	133	
1407_8008, 8008_1407	379235, 394508	379253,394371	1,364	1,364	1,371	1,370	
6154_8444, 8444_6154	392239, 398845	392076,398624	370	623	370	367	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
4023_8454, 8454_4023	389991, 398131	389972,398133	360	624	367	364	
3905_8454, 8454_3905	389991, 398131	390184,398105	387	651	395	392	
4769_8456, 8456_4769	391120, 398003	391330,397976	677	913	647	642	
4387_8573, 8573_4387	386395, 397579	386335,397585	924	1,133	1,194	1,207	
2322_8573, 8573_2322	386395, 397579	386431,397576	896	1,115	1,168	1,180	
6617_8574, 8574_6617	387149, 397824	387046,398056	169	201	226	205	
1497_8575, 8575_1497	387531, 397861	387321,397789	504	285	306	494	
6624_8578, 8578_6624	388140, 397422	388063,397429	826	1,235	1,295	1,109	
4348_8684, 8684_4348	386257, 394832	386287,394746	418	748	450	455	
1460_8684, 8684_1460	386257, 394832	386234,394897	447	772	474	479	
3296_8688, 8688_3296	384342, 394108	384205,394090	212	217	223	222	
7127_8705, 8705_7127	386416, 394206	386402,394285	373	706	402	409	
3634_8718, 8718_3634	386188, 392526	386125,392300	547	897	590	594	
6108_8735, 8735_6108	385281, 389825	385437,390231	620	976	656	675	
1637_8736, 8736_1637	381235, 390771	381440,390651	1,101	1,113	1,112	1,104	
4515_8736, 8736_4515	381235, 390771	381088,390849	478	491	490	482	
4368_8779, 8779_4368	382577, 392451	382325,392702	967	999	998	998	
4489_8789, 8789_4489	382879, 391638	382835,391538	3,775	3,785	3,767	3,793	
4344_8789, 8789_4344	382879, 391638	382981,391874	2,061	2,075	2,059	2,083	
6306_8952, 8952_6306	391576, 397961	391725,398025	1,208	1,632	1,431	1,410	
4766_8952, 8952_4766	391576, 397961	391519,397943	1,211	1,636	1,435	1,414	
1509_8966, 8966_1509	387425, 398441	387143,398340	634	881	630	635	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
4386_8968, 8968_4386	387946, 397440	387811,397452	745	1,155	1,216	1,029	
6624_8968, 8968_6624	387946, 397440	388063,397429	745	1,155	1,216	1,029	
6158_9006, 9006_6158	393111, 399307	392885,399286	287	542	289	286	
3937_9997	391122, 394817	391091,395064	1,794	1,840	1,879	1,911	
2886_12816, 99979_2879	385141, 389142	385537,389246	9,433	10,108	10,016	9,784	
12816_12817	384829, 389085	385141,389142	977	988	1,011	972	
2854_12817	384829, 389085	384939,389104	591	866	781	769	
2880_12818, 2964_2885	388048, 390197	385917,389418	9,540	10,228	10,127	9,884	
3929_12820, 3927_3930	391683, 392404	391454,391654	2,690	2,746	2,824	2,855	
2862_12842, 12844_2864	382023, 388484	381960,388340	4,725	5,079	4,934	4,876	
12843_12842	382023, 388484	381979,388379	52	540	360	264	
2862_12843	381979, 388379	381960,388340	1,614	2,080	1,923	1,851	
2863_12844, 2862_12842	382017, 388387	382107,388563	4,443	4,771	4,638	4,571	
2884_12845, 12842_2876	382193, 388682	383316,388784	3,176	4,023	3,676	3,535	
1250_12846, 1250_12846	375902, 396677	376113,396576	4,593	3,242	3,259	3,073	
12847_12846, 1250_12846	375902, 396677	376220,396514	2,842	2,138	2,147	2,055	
2965_12856, 2962_2966	388500, 390256	388813,390337	5,563	6,314	6,202	5,951	
5675_12858, 5674_5677	389560, 403300	390081,402846	4,556	4,546	4,555	4,554	
3116_13016, 13017_3117	377939, 393781	377574,394180	4,881	5,116	5,058	4,986	
13016_13030, 2837_13017	380477, 392432	377939,393781	4,363	4,566	4,502	4,442	
2841_13031, 2839_2842	381724, 390874	381851,390854	7,224	7,542	7,353	7,338	
2877_13100	384681, 389112	384513,389154	2,192	2,421	2,370	2,288	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2852_13101	384930, 389121	384783,389101	3,044	3,309	3,055	3,361	
5125_14004, 14004_5125	383001, 388956	383000,388930	835	650	650	650	
8782_14004, 14004_8782	383001, 388956	383056,389135	835	650	650	650	
8718_14024, 14024_8718	386192, 392541	386188,392526	532	885	576	581	
1653_14024, 14024_1653	386192, 392541	386277,392844	532	885	576	581	
1859_14054, 14054_1859	389485, 391000	389523,390769	590	573	573	581	
8900_14054, 14054_8900	389485, 391000	389485,391006	590	573	573	581	
4387_14253, 14253_4387	386234, 397594	386335,397585	924	1,133	1,194	1,207	
5933_14334, 14334_5933	385622, 395659	385584,395701	425	717	437	444	
8791_14334, 14334_8791	385622, 395659	385695,395587	425	717	437	444	
8791_14335, 14335_8791	385822, 395469	385695,395587	357	679	371	378	
4399_14335, 14335_4399	385822, 395469	385872,395423	358	679	371	378	
4399_14336, 14336_4399	385887, 395408	385872,395423	358	679	371	378	
14336_14337, 14337_14336	385986, 395317	385887,395408	358	679	371	378	
1461_14337, 14337_1461	385986, 395317	386055,395254	358	679	372	378	
5963_14338, 14338_5963	386372, 394454	386359,394523	385	716	413	419	
7127_14338, 14338_7127	386372, 394454	386402,394285	385	716	413	419	
8705_14339, 14339_8705	386425, 394147	386416,394206	330	676	365	383	
3924_14339, 14339_3924	386425, 394147	386439,394078	330	676	366	384	
1463_14340, 14340_1463	386548, 393903	386560,393947	510	843	539	550	
4512_14340, 14340_4512	386548, 393903	386529,393842	510	843	539	550	
4512_14341, 14341_4512	386386, 393383	386529,393842	510	843	539	550	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1654_14341, 14341_1654	386386, 393383	386377,393330	510	843	539	550	
1422_14400, 14400_1422	385390, 395980	385480,395851	536	828	548	555	
7114_14506, 14506_7114	386398, 398380	386233,398436	536	774	497	539	
14506_14507, 14507_14506	386504, 398348	386398,398380	564	797	539	558	
6139_14507, 14507_6139	386504, 398348	386733,398351	558	788	526	558	
8966_14593, 14593_8966	387591, 398504	387425,398441	634	881	630	635	
1508_14593, 14593_1508	387591, 398504	387632,398519	634	881	630	635	
4734_14595, 14595_4734	388078, 398475	387976,398497	524	780	524	526	
8579_14595, 14595_8579	388078, 398475	388372,398411	524	780	524	526	
1501_14596, 14596_1501	389757, 398161	389376,398212	364	627	370	367	
8455_14596, 14596_8455	389757, 398161	389796,398157	364	627	370	367	
8455_14597, 14597_8455	389921, 398140	389796,398157	360	624	367	364	
4023_14597, 14597_4023	389921, 398140	389972,398133	360	624	367	364	
6364_14598, 14598_6364	391065, 398010	390715,398057	490	752	496	494	
8456_14598, 14598_8456	391065, 398010	391120,398003	490	752	496	494	
6156_14600, 14600_6156	392530, 399046	392651,399236	362	615	362	359	
8444_14605, 14605_8444	392445, 398956	392239,398845	362	615	362	359	
9006_14606, 14606_9006	393170, 399321	393111,399307	287	542	289	286	
6153_14606, 14606_6153	393170, 399321	393274,399365	287	542	289	286	
7625_14607, 14607_7625	389213, 398237	389064,398257	453	711	455	456	
1501_14607, 14607_1501	389213, 398237	389376,398212	453	711	455	456	
1612_14608, 14608_1612	390535, 398085	390432,398099	546	807	552	549	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
6364_14608, 14608_6364	390535, 398085	390715,398057	533	794	539	536	
4515_14611, 14611_4515	380992, 390937	381088,390849	478	491	490	482	
4507_14613, 14613_4507	380515, 389388	380930,389347	831	872	882	864	
1846_14615, 14615_1846	381731, 388228	382023,388115	441	440	432	433	
8579_15107, 15107_8579	388443, 398395	388372,398411	540	797	542	543	
4503_15107, 15107_4503	388443, 398395	388683,398340	508	765	510	511	
8779_15125, 15125_8779	382694, 392367	382577,392451	924	956	955	955	
4367_15125, 15125_4367	382694, 392367	382710,392355	937	968	967	967	
8735_15134, 15134_8735	385244, 389726	385281,389825	1,032	1,376	1,066	1,085	
4342_15134, 15134_4342	385244, 389726	385236,389705	1,024	1,369	1,058	1,078	
3042_15348, 15348_3042	382819, 391508	382750,391375	3,762	3,772	3,754	3,781	
4489_15348, 15348_4489	382819, 391508	382835,391538	3,775	3,785	3,767	3,793	
4967_30743, 32743_7603	376487, 396938	376588,396907	676	877	869	876	
34112_31269, 34112_31269	383999, 384945	384057,384884	702	698	693	627	
31372_31373, 31373_31372	375963, 397124	375679,396963	640	840	832	839	
31372_31375, 31375_31372	375767, 396843	375679,396963	919	1,745	1,731	1,706	
31373_31377, 31377_31373	376152, 397070	375963,397124	640	840	832	839	
31374_31377, 31377_31374	376152, 397070	376341,397017	640	840	832	839	
31375_31379, 31379_31375	375977, 396684	375767,396843	919	1,745	1,731	1,706	
4956_31379, 31379_4956	375977, 396684	376395,396523	919	1,745	1,731	1,706	
31374_32743, 30743_31374	376527, 396980	376341,397017	676	877	869	876	
2864_32867, 42841_2865	381299, 386788	381715,387500	5,277	6,154	5,845	5,686	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
32866_42841, 32867_35926	381149, 386684	381075,386600	4,493	5,354	5,037	4,901	
31269_43284, 43284_31266	383890, 385040	383999,384945	729	740	741	706	
43283_43885, 43885_43283	383882, 384900	383850,384820	293	311	310	307	
43284_43885, 43885_43284	383882, 384900	383890,385040	315	333	333	330	
3623_90004, 90004_3623	385743, 397339	385741,397366	367	482	389	437	
1477_90004, 90004_1477	385743, 397339	385752,397280	367	482	389	437	
3623_90028, 90028_3623	385803, 397429	385741,397366	46	19	19	19	
1511_90040, 90040_1511	386134, 397600	385998,397614	964	1,390	1,253	1,244	
14253_90040, 90040_14253	386134, 397600	386234,397594	924	1,133	1,194	1,207	
2876_99977, 2882_2884	383522, 388864	383306,388801	4,714	5,546	5,204	5,075	
2879_99978, 2885_2886	385680, 389327	385462,389244	11,093	11,754	11,665	11,426	
13101_99979, 13101_99979	385043, 389147	384930,389121	9,353	9,992	9,901	9,648	
3874_3877, 3889_3874	385736, 386864	386198,385485	2,083	2,053	2,051	2,044	
3884_3889, 3877_1876	385741, 386876	385454,387181	2,019	1,988	1,986	1,980	
5188_5189	385624, 387033	385599,387074	442	444	443	444	
5189_5190	385581, 386983	385624,387033	426	427	426	428	
5190_5191	385555, 386972	385581,386983	469	472	471	472	
13442_13441	386814, 384392	386825,384501	768	729	729	725	
31155_31157, 31158_31156	385163, 384394	384865,384447	729	740	741	706	
31288_31281	386861, 384724	386835,384744	965	926	926	921	
31281_31282	386863, 384699	386861,384724	680	644	644	639	
31282_31283	386844, 384679	386863,384699	1,057	1,027	1,027	1,023	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
35305_31284, 31283_13442	386820, 384676	386799,384403	1,926	1,887	1,886	1,877	
31289_31288	386835, 384744	386711,384888	799	762	762	758	
3874_31289, 34111_3874	386711, 384888	386198,385485	2,083	2,053	2,051	2,044	
33017_33876, 33882_33019	387074, 384198	386509,384482	475	480	481	484	
33019_33933, 33885_33017	385911, 384507	386506,384471	556	564	568	569	
13441_35306	386827, 384373	386814,384392	782	736	745	741	
35306_35307	386791, 384293	386827,384373	422	385	385	381	
1500_2907, 2907_1500	389545, 397351	389510,397351	693	877	972	974	
3038_3120, 3120_3038	388351, 397403	388191,397417	996	1,149	1,264	1,274	
1476_3825, 3825_1476	387192, 396973	387207,397175	801	862	888	873	
1241_3832, 3832_1241	389155, 395877	388912,395948	1,478	1,475	1,470	1,465	
1478_4518, 4518_1478	385776, 397169	385777,396921	307	282	214	261	
3625_5655, 5655_3625	391981, 398158	391830,398076	1,122	1,291	1,342	1,325	
5655_5656, 5656_5655	392078, 397967	391981,398158	802	986	1,080	1,009	
5673_5674, 12858_5672	389707, 403167	388833,403463	4,033	4,028	4,035	4,034	
4052_6243, 6243_4052	389836, 397343	390175,397316	670	853	949	952	
3867_6687, 6687_3867	381061, 388414	381126,388424	567	576	570	570	
3888_6687, 6687_3888	381061, 388414	380916,388357	504	513	507	507	
1499_7117, 7117_1499	388414, 397397	388559,397384	885	1,074	1,162	1,168	
3120_7117, 7117_3120	388414, 397397	388351,397403	882	1,041	1,156	1,165	
1499_7118, 7118_1499	388760, 397376	388559,397384	831	1,019	1,105	1,113	
3287_7118, 7118_3287	388760, 397376	388780,397375	830	1,016	1,104	1,112	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
6637_7134, 7134_6637	387402, 396020	387325,395986	139	144	140	142	
1201_7136, 7136_1201	387203, 396485	387062,396536	871	862	840	833	
2319_7137, 7137_2319	387394, 396717	387280,396952	81	82	147	145	
6688_7145, 7145_6688	380464, 387836	380393,388164	116	111	114	120	
1729_7550, 7550_1729	389283, 397356	389240,397357	884	1,069	1,166	1,169	
4052_7554, 7554_4052	390561, 397471	390175,397316	670	853	949	952	
1710_7554, 7554_1710	390561, 397471	390628,397494	773	956	1,055	1,057	
1708_8457, 8457_1708	391211, 397802	391347,397864	537	728	790	776	
1710_8457, 8457_1710	391211, 397802	390628,397494	255	447	510	495	
1710_8493, 8493_1710	391046, 397441	390628,397494	519	509	547	563	
3287_8577, 8577_3287	388937, 397369	388780,397375	831	1,017	1,105	1,113	
3038_8578, 8578_3038	388140, 397422	388191,397417	996	1,149	1,264	1,274	
6243_8656, 8656_6243	389584, 397351	389836,397343	670	853	949	952	
2907_8656, 8656_2907	389584, 397351	389545,397351	693	877	972	974	
1487_8660, 8660_1487	387953, 396778	388726,396252	338	341	301	303	
6637_8675, 8675_6637	387241, 395950	387325,395986	161	167	163	164	
6682_8744, 8744_6682	380634, 388868	380670,388790	400	407	403	401	
3867_8747, 8747_3867	381301, 388418	381126,388424	230	233	231	232	
1634_8748, 8748_1634	380478, 388427	380824,388530	353	353	351	352	
13100_13101	384930, 389121	384681,389112	1,625	1,789	1,878	1,623	
1528_14161, 14161_1528	387012, 400403	387083,400449	793	788	776	786	
8659_14167, 14167_8659	388736, 396865	388849,396378	276	269	272	272	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1498_14167, 14167_1498	388736, 396865	388669,397100	276	269	272	272	
4487_14318, 14318_4487	389139, 397361	389095,397363	764	951	1,041	1,046	
1729_14318, 14318_1729	389139, 397361	389240,397357	765	952	1,041	1,046	
8577_14404, 14404_8577	388996, 397368	388937,397369	764	951	1,041	1,046	
4487_14404, 14404_4487	388996, 397368	389095,397363	764	951	1,041	1,046	
1506_14594, 14594_1506	387945, 398461	387954,398502	170	179	177	168	
1500_15109, 15109_1500	389392, 397354	389510,397351	760	947	1,041	1,045	
7550_15109, 15109_7550	389392, 397354	389283,397356	852	1,037	1,132	1,136	
1477_90015, 90015_1477	385765, 397219	385752,397280	350	324	256	304	
4518_90015, 90015_4518	385765, 397219	385776,397169	307	282	214	261	
1478_90016, 90016_1478	385634, 396966	385777,396921	979	954	979	977	
31984_31158	385163, 384381	385550,384393	89	85	80	44	
35307_35308	386773, 384287	386791,384293	889	858	857	853	
13100_2852	384783, 389101	384681,389112	567	749	508	836	
1825_7145, 7145_1825	380464, 387836	380717,387199	32	26	26	27	
12846_1247, 26792_1248	375368, 397542	375902,396677	4,860	4,193	4,205	4,033	
1517_1502, 1502_1517	386201, 399004	386614,399327	395	393	387	381	
7114_1510, 1510_7114	385927, 398456	386233,398436	490	721	438	488	
1517_1512, 1512_1517	386410, 399496	386614,399327	674	707	696	679	
1472_2939, 2939_1472	385708, 397636	385879,397624	936	1,368	1,234	1,218	
1315_3371, 3371_1315	379426, 389126	379536,389279	519	525	526	520	
14400_4397, 4397_14400	385190, 396268	385390,395980	536	828	548	555	

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

Road ID	Start and end coordinates		HDV				Notes
			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1481_4855, 4855_1481	385310, 397013	385675,396685	721	717	721	690	
7115_7116, 7116_7115	385636, 397839	386078,398212	63	56	99	63	
31372_31371, 31371_31372	375448, 397367	375679,396963	1,558	2,583	2,562	2,543	
32867_35926, 32869_32866	380781, 386174	381299,386788	4,143	4,994	4,683	4,558	
43283_43282, 43282_43283	383830, 384630	383850,384820	293	311	310	307	
3623_90000, 90000_3623	385724, 397552	385741,397366	333	591	0	0	Realignment
1477_90021, 90021_1477	385443, 397251	385752,397280	52	200	192	204	
31156_31154, 31153_31155	384663, 384453	384872,384434	729	740	741	706	
31266_31265, 31264_34112	384367, 384578	384004,384959	729	740	741	706	
3623_90060, 90060_3623	385643, 397524	385741,397366	0	0	389	437	Realignment
90016_4854, 4854_90016	385353, 397054	385634,396966	1,023	984	1,009	1,007	
5672_5671, 5670_5673	386172, 404464	389062,403473	4,984	4,979	4,981	4,984	
7115_6616, 6616_7115	385871, 398350	386078,398212	6	17	22	23	
7114_8583, 8583_7114	386174, 398641	386233,398436	46	52	58	51	

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

Table 7: Construction traffic flows on the site haul routes

ID	No. 40 tonne ADT	No. 20 tonne HGV	No. 40 tonne ADT (along the route)
MA06/16	0	347	0
MA07/01	0	53	0
MA07/01 (compound stockpile)	0	27	0
MA07/02	0	21	0
MA07/02 (compound stockpile)	0	11	0
MA07/03	0	51	0
MA07/03 (compound stockpile)	0	21	0
MA07/04	0	61	0
MA07/04 (compound stockpile)	0	31	0
MA07/05	0	352	0
MA07/06	0	217	0
MA07/06 (TN16)	0	211	0
MA08/04	0	39	0
MA08/05	0	39	0

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

5 Operational traffic data

- 5.1.1 Table 8 outlines the predicted flows of traffic on the highway network relating to the operation of the Proposed Scheme in 2038. The data presented are split into AADT and HDV in the 'without the Proposed Scheme' and 'with the Proposed Scheme' scenarios, together with the change between the two scenarios. It also notes whether the road will be closed, diverted or realigned permanently, due to the operation of the Proposed Scheme.

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Table 8: Traffic data used for the operational assessment

Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
90028_1472	385803, 397429 385879,397624	2,358	0	02,358	43	0	043	Realignment
1476_1494, 1494_1476	387207, 397175 387191,397508	32,379	33,774	1,395	761	815	53	
2855_2856, 2857_2844	382350, 390231 382315,389869	118,774	117,732	01,042	3,424	3,428	4	
2856_2859, 2858_2857	382315, 389869 382257,389439	137,395	136,303	01,092	4,237	4,239	3	
2859_2860, 2861_2858	382257, 389439 382235,388918	111,782	110,529	01,253	2,887	2,895	9	
2860_2863, 12843_2861	382235, 388918 382107,388563	135,570	134,528	01,041	3,541	3,545	4	
1476_3825, 3825_1476	387207, 397175 387192,396973	35,705	37,425	1,720	861	904	42	
1634_3888, 3888_1634	380824, 388530 380916,388357	7,522	9,542	2,019	227	211	016	
1478_4518, 4518_1478	385777, 396921 385776,397169	19,197	17,203	01,994	333	241	092	
1634_6682, 6682_1634	380824, 388530 380670,388790	5,125	6,798	1,673	495	501	6	
3867_6687, 6687_3867	381126, 388424 381061,388414	17,587	18,915	1,328	569	560	09	
3888_6687, 6687_3888	380916, 388357 381061,388414	17,526	18,877	1,351	506	497	09	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
3120_7117, 7117_3120	388351, 397403 388414,397397	27,706	26,619	01,087	888	923	35	
1499_7118, 7118_1499	388559, 397384 388760,397376	27,980	26,730	01,250	854	880	25	
3287_7118, 7118_3287	388780, 397375 388760,397376	27,857	26,613	01,244	854	879	26	
6637_7134, 7134_6637	387325, 395986 387402,396020	8,621	9,622	1,002	148	156	8	
1201_7136, 7136_1201	387062, 396536 387203,396485	25,852	26,892	1,040	917	876	041	
1825_7145, 7145_1825	380717, 387199 380464,387836	4,252	3,031	01,221	26	31	5	
6617_8574, 8574_6617	387046, 398056 387149,397824	6,802	7,934	1,132	178	217	39	
3287_8577, 8577_3287	388780, 397375 388937,397369	27,869	26,629	01,240	854	880	26	
6637_8675, 8675_6637	387325, 395986 387241,395950	8,055	9,248	1,192	171	179	8	
6682_8744, 8744_6682	380670, 388790 380634,388868	8,631	10,287	1,656	404	411	6	
3867_8747, 8747_3867	381126, 388424 381301,388418	15,194	16,217	1,023	232	219	013	
6688_8748, 8748_6688	380393, 388164 380478,388427	6,511	7,828	1,317	340	341	2	
2863_12844	382107, 388563 382017,388387	125,719	124,329	01,390	4,942	4,889	053	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
 MA07: Davenport Green to Ardwick
 Additional data used in the air quality assessment

Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
1528_14161, 14161_1528	387083, 400449 387012,400403	21,589	20,386	01,203	797	791	05	
17000_17001, 17001_17000	381809, 385988 381789,386000	16,312	16,953	641	254	518	264	
17003_43846, 43846_17003	382117, 385866 382368,385621	24,569	24,457	0113	265	242	023	
43844_43882, 43882_43844	381520, 386020 381670,386000	15,281	16,215	934	223	489	266	
17001_43882, 43882_17001	381789, 386000 381670,386000	16,312	16,953	641	254	518	264	
3623_90004, 90004_3623	385741, 397366 385743,397339	26,977	25,290	01,687	396	418	22	
1477_90004, 90004_1477	385752, 397280 385743,397339	26,978	25,290	01,688	396	418	22	
1477_90015, 90015_1477	385752, 397280 385765,397219	19,838	17,814	02,024	377	284	094	
4518_90015, 90015_4518	385776, 397169 385765,397219	19,197	17,203	01,993	333	241	092	
1478_90016, 90016_1478	385777, 396921 385634,396966	19,879	21,018	1,139	980	993	13	
3623_90028, 90028_3623	385741, 397366 385803,397429	2,508	356	02,151	49	20	030	
13442_13441	386825, 384501 386814,384392	67,060	68,155	1,096	2,078	2,071	08	
31282_31283	386863, 384699 386844,384679	42,841	44,098	1,257	1,116	1,112	04	

Background Information and Data
 Air quality
 BID AQ-002-0MA07
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 Additional data used in the air quality assessment

Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
35305_31284, 31283_13442	386799, 384403 386820,384676	67,060	68,155	1,096	2,078	2,071	08	
2939_1472, 1472_2939	385708, 397636 385879,397624	26,702	28,024	1,322	998	1,015	16	
90021_1477, 1477_90021	385443, 397251 385752,397280	7,718	9,169	1,450	54	208	153	
1502_1517, 1517_1502	386201, 399004 386614,399327	14,786	12,928	01,858	420	393	027	
1512_1517, 1517_1512	386410, 399496 386614,399327	26,390	24,801	01,588	682	703	21	
7152_1825, 1825_7152	380297, 387273 380717,387199	18,405	19,471	1,066	262	280	18	
90000_3623, 3623_90000	385724, 397552 385741,397366	24,843	0	024,843	360	0	0360	Realignment
8591_14161, 14161_8591	386844, 400314 387012,400403	23,066	21,944	01,122	851	839	011	
17002_17000, 17000_17002	381774, 385835 381809,385988	17,512	17,141	0371	262	551	290	
89982_43844, 43844_89982	381258, 385976 381520,386020	16,192	16,783	591	227	496	269	
90060_3623, 3623_90060	385643, 397524 385741,397366	0	25,254	25,254	0	418	418	Realignment

Background Information and Data

Air quality

BID AQ-002-0MA07

MA07: Davenport Green to Ardwick

Additional data used in the air quality assessment

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