

High Speed Two Phase 2a (West Midlands - Crewe)

Background information and data

Traffic data used for the air quality assessment in the Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement (BID-AQ-002-000)

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Department for Transport

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1 Introduction

1.1 Structure of this report

1.1.1 This document sets out Background Information and Data (BID) that accompanies the High Speed Two (HS2) Phase 2a (West Midlands - Crewe) Supplementary Environmental Statement 2 (SES2) and Additional Provision 2 Environmental Statement (AP2 ES)¹.

1.1.2 This document contains the traffic data that was used in the air quality assessment for the following community areas (CA):

- CA1: Fradley to Colton;
- CA2: Colwich to Yarlet;
- CA3: Stone and Swynnerton;
- CA4: Whitmore Heath to Madeley; and
- CA5: South Cheshire.

1.2 Methodology

1.2.1 Details of the methodology used are provided in the Environmental Impact Assessment Scope and Methodology Report (SMR)² and SMR Addendum³ (which includes Technical note – Air Quality: Guidance on the assessment methodology) of the main ES, and in the SMR Addendum 2 of the SES2 and AP2 ES⁴.

¹ HS2 Ltd (2019), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement*, <https://www.gov.uk/government/organisations/high-speed-two-limited>

² HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Impact Assessment Scope and Methodology Report, Main ES, Volume 5: Appendix CT-001-001*,

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/627187/E23_EIA_SMR_CT-001-001_WEB.pdf

³ HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Impact Assessment Scope and Methodology Report Addendum, Main ES, Volume 5: Appendix CT-001-002*,

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/627188/E24A_CT-001-002_Part_1_WEB.pdf and https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/627189/E24-B_CT-001-002_Part_B_WEB.pdf

⁴ HS2 Ltd (2019), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Impact Assessment Scope and Methodology Report Addendum 2, Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement, Volume 5: Appendix SES2 and AP2 ES Appendix CT-001-000*, <https://www.gov.uk/government/organisations/high-speed-two-limited>

2 Fradley to Colton (CA1)

2.1.1 Table 1 and Table 2 present the traffic flows used in the air quality assessment from construction related vehicles on the highway network, on the haul roads and at areas of construction activities along the route. Vehicles along the route are split into 20 tonne heavy goods vehicles (HGVs) used in the construction of the rail systems and 40 tonne articulated dump trucks (ADTs), which travel along the route.

Table 1: Highway network construction traffic flows in the Fradley to Colton area

Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-001	D3131 Common Lane (east of A0515 Litchfield Road)	65	234	169	6	7	1
AQ-002	A515 Lichfield Road (between Common Lane and the HS2 route)	5,367	5,725	358	395	528	133
AQ-003	C0097 Shaw Lane (between Rugeley Road and the HS2 route)	181	181	0	6	6	0
AQ-004	A513 Rugeley Road (between Shaw Lane and the HS2 route)	6,571	7,204	632	198	569	371
AQ-008	B5014 Uttoxeter Road (between Stoneyford Lane and the HS2 route)	1,559	1,559	0	54	54	0
AQ-010	D3184 Hadley Gate Lane (north of Blithbury Road)	29	29	0	0	0	0
AQ-012	D3185 Newlands Lane (between D3185 Moor Lane and close to D3179 Narrow Lane)	109	109	0	9	9	0
AQ-013	D3185 Moor Lane (south of D3185 Newlands Lane)	123	123	0	10	10	0
AQ-052	A515 Lichfield Road (between Crawley Lane and Rugeley Road)	10,758	10,892	134	552	552	0
AQ-053	D3191 Pipe Lane (north of D3123 Common Lane)	500	500	0	26	26	0
AQ-054	D3178 Sherracope Lane (between Uttoxeter Road and Park Lane)	40	40	0	3	3	0
AQ-055	C0107 Blithbury Road (between Stoneyford Lane and Blithbury Road)	2,010	2,097	87	56	64	8
AQ-069	A513 Alrewas Bypass from Kings Bromley Road to A38 at Croxall Road (between A38 Rykneld Street and Orgreave Hall Lane)	7,672	7,804	132	489	489	0
AQ-073	A513 Kings Bromley Lane (between the HS2 route and Uttoxeter Road)	6,763	7,247	484	230	329	99
AQ-074	B5014 Uttoxeter Road (between	3,249	3,276	28	106	106	0

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Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
	Common Lane and School Lane)						
AQ-075	B5014 Rake End Lane (between School Lane and Stoneyford Lane)	2,253	2,281	28	102	102	0
AQ-076	D3121 Pipe Lane (between Blithbury Road and Pipe Lane/southbound)	53	87	34	2	2	0
AQ-086	B5013 Colton Road (between Co106 Bellamour Way and Co107 Blithbury Road)	5,558	5,710	152	255	318	63
AQ-088	A51 Lichfield Road (between A513 Lichfield Road and Rugeley Eastern Bypass)	21,903	23,344	1,441	918	1,215	297
AQ-131	A51 Western Bypass (between D3376 Abnalls Lane and Co353 The Friary)	23,326	23,475	150	508	508	0
AQ-132	A51 Stafford Road (between Eastern Avenue and Featherbed Lane)	19,944	20,100	156	583	583	0
AQ-133	Wood End Lane (between Nanscawen Road and A0038 Rykneld Street)	9,063	9,508	445	2,157	2,602	445
AQ-134	Co183 Wood End Lane (between D3195 Gorse Lane and Nanscawen Road)	8,395	8,840	445	1,286	1,731	445
AQ-135	Wood End Lane (between D3195 Gorse Lane and Netherstowe Lane)	7,396	7,841	445	838	1,283	445
AQ-136	A51 Stafford Road (between A515 Featherbed Lane and U3610 Cleat Hill lay-by)	19,632	19,969	337	567	885	318
AQ-137	Co183 Wood End Lane (between A0515 Litchfield Road and D3200 Netherstowe Lane)	5,566	5,877	311	236	546	311
AQ-138	A515 Lichfield Road (between Wood End Lane and Common Lane)	6,156	6,918	762	314	860	546
AQ-139	B5014 Uttoxeter Road (between Kings Bromley Lane and Common Lane)	3,716	3,925	209	32	131	99
AQ-140	A51 Brereton Hill (between Brereton Hill Lane and Lea Hall Way)	16,667	17,004	337	637	954	318
AQ-141	A51 Lea Hall Way (between Armitage Road and Brereton Hill)	14,829	15,164	335	634	952	318
AQ-142	A51 Lea Hall Way (between Armitage Road and Wheelhouse Road)	18,606	19,147	541	572	890	318

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Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-143	A51 Lea Hall Way (between Wheelhouse Road and Power Station Road)	18,299	18,840	541	560	878	318
AQ-144	U5093 Power Station Road (between U5093 Tannery Close and U5093 Riverside)	10,648	10,648	0	103	103	0
AQ-145	B5013 Colton Road (between Rugeley Eastern Bypass and Blithbury Road)	8,334	8,675	340	120	185	64
AQ-146	D3226 Stonyford Lane (between B5014 Uttoxeter Road and Co107 Blithbury Road)	765	765	0	9	9	0
AQ-206	A38 Rykneld Street (between Burton Road and Rykneld Street/northbound slip)	5,844	5,854	10	116	116	0
AQ-207	A38 Rykneld Street (between Burton Road and Rykneld Street/northbound slip)	5,534	5,538	4	110	110	0
AQ-208	A5127 Trent Valley Road (between Eastern Avenue and Rykneld Street)	13,206	13,212	6	238	238	0
AQ-209	A5192 Cappers Lane (between Trent Valley Road and Austin Cote Lane)	18,836	18,836	0	407	407	0
AQ-210	A5192 Cappers Lane (between Austin Cote Lane and Rykneld Street)	11,665	11,665	0	310	310	0
AQ-211	A5192 Eastern Avenue (between Trent Valley Road and Netherstowe Lane)	21,976	21,982	6	343	343	0
AQ-212	A51 Western Bypass (between Friary Island and Eastern Avenue)	12,765	12,772	6	329	329	0
AQ-213	A5192 Eastern Avenue (between Netherstone Lane and Grange Lane)	15,111	15,117	6	335	335	0
AQ-214	A51 Stafford Road (between Constitution Island and Brereton Hill Lane)	17,249	17,586	337	614	931	318
AQ-215	Nanscawen Road (south of Wood End Lane)	391	391	0	96	96	0
AQ-216	A51 Rugeley Eastern Bypass (between Colton Road and Lichfield Road)	13,481	14,089	608	475	772	297
AQ-230	D3130 Crawley Lane (between A0515 Litchfield Road and D3131 Common Lane)	112	112	0	15	15	0

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Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-232	D3191 Pipe Lane (between D3123 Common Lane and D3324 Chadwick Crescent)	152	152	0	3	3	0
AQ-250	A515 Tewnalls Lane (between Co183 Wood End Lane and A51 Stafford Road)	8,456	8,911	455	566	884	318
AQ-257	Co183 Wood End Lane (between Wood End Lane/southbound and A38 Rykneld Street)	8,031	8,253	223	2,021	2,243	223
AQ-314	A38 Rykneld Street southbound (between A5192 Cappers Lane and A5206 London Road)	61,310	61,611	301	10,639	10,940	301
AQ-339	A38 Lichfield Road northbound (between A513 Croxall Road and B5016 Station Road)	27,622	27,903	281	3,598	3,760	161
AQ-340	A38 Rykneld Street northbound (between A5127 Burton Road and A513 Croxall Road)	56,076	56,251	175	7,870	8,031	161
AQ-341	A38 Rykneld Street southbound (within the A5127 Burton Road /A5192 Cappers Lane junction)	51,087	51,388	301	9,008	9,309	301
AQ-354	A38 Swinfen roundabout at junction with A5206 southbound	24,993	25,154	161	3,880	4,041	161
AQ-355	A38 Swinfen roundabout at junction with A5206 northbound	24,442	24,722	281	3,618	3,780	161
AQ-358	A5148 (between A38 and A5)	15,033	15,334	301	2,983	3,284	301
AQ-361	A5192 Cappers Lane (between A38 Rykneld Street and slip roads)	7,303	7,303	0	464	464	0
AQ-362	A38 Rykneld Street southbound from A5192 Cappers Lane	4,622	4,622	0	357	357	0
AQ-363	A38 Rykneld Street northbound to A5192 Cappers Lane	4,556	4,556	0	364	364	0
AQ-375	D3185 Newlands Lane (between High Street and the HS2 route)	50	90	40	3	5	1
AQ-376	D3121 Pipe Lane (between Blithbury Road and Woodhouse Farm)	59	59	0	6	6	0
AQ-379	D3121 Pipe Lane (between Quintons Orchard and Dawson Lane)	81	81	0	5	5	0

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Table 2: Haul road and along the route construction traffic flows in the Fradley to Colton area

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
188300	0	22	0
188400	0	45	2
188500	0	46	2
188600	0	24	9
188700	0	44	9
188800	0	43	9
188900	0	279	9
189000	0	279	9
189100	0	153	9
189200	0	153	9
189300	0	153	9
189400	93	153	9
189500	185	153	9
189600	185	179	22
189700	185	99	22
189800	185	99	22
189900	185	99	22
190000	185	99	22
190100	185	99	24
190200	123	99	24
190300	123	103	58
190400	123	39	34
190500	123	49	34
190600	31	173	34
190700	31	173	25
190800	31	42	25
190900	31	50	25
191000	31	308	25
191100	31	303	0
191200	31	208	0

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
191300	31	208	1
191400	31	222	64
191500	31	138	64
191600	31	138	64
191700	31	138	64
191800	31	11	57
191900	31	15	57
192000	31	4	57
192100	31	4	57
192200	31	4	57
192300	31	4	57
192400	31	4	57
192500	31	4	57
192600	93	4	57
192700	93	4	57
192800	93	4	57
192900	93	26	57
193000	93	787	0
193100	93	563	0
193200	93	563	0
193300	93	563	0
193400	93	563	0
193500	93	563	0
193600	93	563	0
193700	93	563	0
193800	93	563	0
193900	93	611	3
194000	93	608	3
194100	93	611	3
194200	93	611	3

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
194300	62	657	3
194400	31	665	7
194500	31	575	7
194600	31	575	7
194700	31	575	8
194800	31	575	8
194900	31	575	10
195000	31	612	10
195100	31	566	20
195200	31	565	20
195300	31	565	20
195400	31	565	20
195500	31	568	23
195600	31	551	23
195700	31	551	23
195800	31	551	23
195900	31	617	23
196000	31	617	24
196100	31	580	24
196200	31	587	38
196300	31	581	44
196400	31	580	44
196500	31	580	44
196600	31	580	46
196700	31	580	46
196800	31	580	48
196900	31	580	48
197000	31	634	63
197100	31	563	63
197200	31	563	66

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
197300	31	563	66
197400	31	563	66
197500	31	563	66
197600	31	564	70
197700	31	563	70
197800	31	594	70
197900	31	594	70
198000	31	535	70
198100	31	469	70
198200	31	469	70
198300	31	469	70
198400	31	470	70
198500	31	482	103
198600	31	304	103
198700	31	304	103
198800	31	304	103
198900	31	308	103
199000	31	287	104
199100	31	289	112
199200	31	289	116
199300	31	297	118
199400	31	272	118
199500	31	272	118
199600	31	272	118
199700	31	275	118
199800	62	271	118
199900	93	271	118
200000	93	273	120
200100	93	273	120
200200	93	273	120

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
200300	93	337	126
200400	31	329	126
200500	31	363	126
200600	31	363	126
200700	31	283	126
200800	31	283	126
200900	31	285	129
201000	31	254	129
201100	31	254	129
201200	31	254	129
201300	31	254	129
201400	31	254	129
201500	31	255	129
201600	31	242	144
201700	31	264	144
201800	-	-	144

3 Colwich to Yarlet (CA2)

3.1.1 Table 3 and Table 4 present the traffic flows used in the air quality assessment from construction related vehicles on the highway network, on the haul roads and at areas of construction activities along the route. Vehicles along the route are split into 20 tonne HGVs used for the construction of the rail systems and 40 tonne ADTs, which travel along the route.

Table 3: Highway network construction traffic flows in the Colwich to Yarlet area

Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-015	D2377 Tolldish Lane (east of A0051 Litchfield Road)	136	136	0	3	3	0
AQ-016	A51 Lichfield Road (between Tolldish Lane and the HS2 route)	14,038	15,232	1,195	875	1,274	399
AQ-017	C0027 Mill Lane (between Hoo Mill Lane and Mill Lane/westbound of Main Road)	4,009	4,040	31	59	59	0
AQ-018	C00027 Great Haywood Road (between Ingestre Park Road and Holdiford Road)	3,841	3,920	79	52	84	32
AQ-019	D2326 Ingestre Park Road (between Hoo Mill Lane and Trent Drive)	1,027	1,137	110	23	55	32
AQ-020	Hoo Mill Lane (between Ingestre Park Road and Hoo Mill Lane/eastbound)	43	43	0	3	3	0
AQ-021	A518 Weston Road (between Within Lane and the HS2 route)	12,446	12,756	310	680	859	179
AQ-022	D2317 Hopton Lane (east of B5066 Sandon Road)	438	438	0	10	10	0
AQ-023	B5066 Sandon Road (between Hopton Lane and the HS2 route)	5,651	5,656	6	223	223	0
AQ-024	D2329 Marston Lane (east of D2312 Yarlet Lane)	132	176	44	6	13	6
AQ-025	D2312 Yarlet Lane (close to D2329 Marston Lane)	103	103	0	6	6	0
AQ-026	A34 Stone Road (between Yarlet Lane and Stone Road/northbound)	22,687	23,325	638	1,275	1,574	299
AQ-058	A51 Lichfield Road (between Little Tixall Lane and Tolldish Lane)	13,369	14,175	806	808	1,105	297
AQ-060	B5066 Sandon Road (between Beaconside and Hopton Lane)	5,982	5,987	6	234	234	0

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Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-063	D2312 Yarlet Lane (close to A0034 Stone Road)	168	168	0	5	5	0
AQ-088	A51 Lichfield Road (between A513 Lichfield Road and Rugeley Eastern Bypass)	21,903	23,344	1,441	918	1,215	297
AQ-089	C0106 Bellamour Lane (between Uttoxeter Road and Main Road)	1,295	1,295	0	39	39	0
AQ-092	A51 London Road (between Uttoxeter Road and Church Lane)	12,780	13,094	315	952	1,068	116
AQ-093	A518 Weston Bank (between Within Lane and Willowmore Banks)	12,162	12,472	310	705	884	179
AQ-094	D2330 Within Lane (between A0518 Weston Road and D2318 Wilmore Hill Lane)	2,396	2,396	0	62	62	0
AQ-095	A518 Weston Road (between the H52 route and Blackheath Lane)	15,491	15,808	318	1,354	1,486	132
AQ-096	A513 Beaconside (between Dyson Way and Sandon Road)	16,284	16,576	291	1,277	1,423	146
AQ-097	A513 Beaconside (between Sandon Road and Marston Lane)	19,492	19,849	357	1,214	1,393	179
AQ-098	D2329 Marston Lane (between D2312 Yarlet Lane and A0513 Beaconside)	260	305	45	12	19	7
AQ-099	A513 Beaconside (between Marston Lane and Redhill roundabout)	18,563	18,956	393	1,231	1,411	181
AQ-100	A34 Stone Road (between Redhill roundabout and Whitgreave Lane)	21,528	22,599	1,071	1,263	1,977	714
AQ-101	A34 from M6 roundabout at Creswell (between Redhill roundabout and Creswell roundabout at junction with M6)	18,546	19,943	1,397	2,124	3,019	895
AQ-148	C0349 Main Road (between A0051 Litchfield Road and C0027 Mill Lane)	4,328	4,328	0	88	88	0
AQ-152	C0252 Blackheath Lane (south of A0518 Weston Road)	12,596	12,684	88	78	119	41
AQ-153	A518 Weston Road (between Blackheath Lane and Hydrant Way)	20,086	20,455	369	450	596	146
AQ-154	A513 Beaconside (between Weston Road and Dyson Way)	17,934	18,225	291	1,211	1,356	146
AQ-198	A513 Lichfield Road (between Tixall Road and Lichfield Road/eastern roundabout)	9,135	9,183	48	82	82	0

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Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-216	A51 Rugeley Eastern Bypass (between Colton Road and Lichfield Road)	13,481	14,089	608	475	772	297
AQ-217	C0149 Whitgreave Lane (between A0034 Stone Road and D2299 Green Lane)	734	746	13	19	19	0
AQ-218	A5013 Creswell Grove (between Creswell roundabout at junction with M6 and Eccleshall Road)	11,102	11,229	127	506	506	0
AQ-226	D2316 Salt Bank (between B5066 Sandon Road and A0518 Weston Bank)	815	815	0	24	24	0
AQ-227	C0349 Main Road (between Lichfield Road and Meadow Lane)	2,971	2,971	0	21	21	0
AQ-228	C0183 Wood End Lane (between A0515 Lichfield Road and D3200 Nethwerstowe Lane)	1,152	1,152	0	10	10	0
AQ-229	A51 Main Road (between Bellamour Lane and Main Road)	14,999	15,823	824	469	766	297
AQ-236	D2378 Little Tixal Lane (between C0349 Main Road and D2384 The Uplands)	1,225	1,256	31	32	32	0
AQ-238	D2317 Hopton Lane (between Wilmore Hill Lane and the HS2 route)	340	340	0	1	1	0
AQ-240	D2317 Hopton Hall Lane (between D2330 Within Lane and D2318 Wilmore Hill Lane)	150	150	0	28	28	0
AQ-258	A513 Beaconside (between B5066 Sandon Road and A513 Beaconside)	19,025	19,316	291	1,288	1,434	146
AQ-259	A51 Main Road (between A513 Lichfield Road and C0106 Bellamour Lane)	15,618	16,442	824	842	1,139	297
AQ-273	M6 junction 14 to junction 15 (between M6 junction 14 to junction 15 off slip and Yarnfield Lane)	129,385	131,929	2,544	22,454	24,228	1,773
AQ-274	M6 (between M6 junction 13 to junction 14 and M6 junction 12 to junction 13 on slip)	136,966	139,434	2,469	21,896	23,338	1,442
AQ-283	A34 Stone southbound	26,342	27,426	1,084	1,654	2,367	714
AQ-284	A51 Stone southbound	16,608	17,217	610	1,077	1,308	231
AQ-285	A34 Stafford	17,333	17,333	0	727	727	0
AQ-289	A518 Stafford	20,953	21,194	241	743	743	0

BID AQ-002-000 SES2 and AP2 ES

Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-290	A5013 Stafford	20,594	20,594	0	626	626	0
AQ-308	A513 Stafford	20,710	21,067	357	1,276	1,456	179
AQ-324	M6 junction 14 southbound exit	4,753	5,133	380	474	700	226
AQ-325	M6 14 junction northbound access	4,826	5,210	383	520	745	226
AQ-326	M6 junction 14 southbound within junction	116,349	117,920	1,571	20,559	21,558	999
AQ-327	M6 junction 14 southbound access	8,490	8,932	443	835	1,057	221
AQ-328	M6 junction 14 northbound exit	9,711	10,194	483	1,457	1,678	221
AQ-380	D3192 Bishton Lane (between Bellamour Lane and A51 Main Road)	1,069	1,069	0	8	8	0
AQ-381	D3192 Bishton Lane (between Bellamour Lane and Bishton Lane Farm)	499	499	0	21	21	0
AQ-557	B5066 (between A51 Lichfield Road and Salt Lane)	5,856	5,856	0	111	111	0
AQ-558	B5066 (between B5027 Uttoxeter Road and Butterhill Lane)	4,753	4,753	0	44	44	0
AQ-625	Temporary construction slip road along the A34 Stone Road	0	1,003	1,003	0	621	621

Table 4: Haul road and along the route construction traffic flows in the Colwich to Yarlet area

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
201700	31	264	-
201800	31	263	144
201900	31	263	144
202000	31	268	144
202100	31	212	144
202200	31	212	144
202300	31	212	144
202400	31	223	144
202500	31	218	144
202600	31	228	144
202700	31	216	144

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
202800	31	216	144
202900	31	216	144
203000	31	216	144
203100	31	216	144
203200	31	375	180
203300	31	376	180
203400	31	343	180
203500	31	355	180
203600	31	355	180
203700	31	335	180
203800	31	335	180
203900	31	335	180
204000	31	335	180
204100	31	354	180
204200	62	347	180
204300	93	347	180
204400	93	347	180
204500	93	348	180
204600	93	348	180
204700	93	351	215
204900	93	148	215
204800	93	148	215
205000	93	148	215
205100	93	155	215
205200	154	153	215
205300	93	158	245
205400	31	5	30
205500	31	5	30
205600	31	5	30
205700	31	13	30

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
205800	31	13	0
205900	31	13	0
206000	31	13	0
206100	31	63	0
206200	31	58	0
206300	31	58	0
206400	31	58	0
206500	31	58	0
206600	31	58	0
206700	31	125	7
206800	31	117	7
206900	31	117	7
207000	31	117	7
207100	31	117	7
207200	31	173	7
207300	31	124	7
207400	31	124	7
207500	31	124	7
207600	31	124	7
207700	31	125	7
207800	31	125	7
207900	31	125	7
208000	31	167	19
208100	31	106	19
208200	31	106	19
208300	31	106	19
208400	31	108	19
208500	93	108	19
208600	154	108	19
208700	154	108	19

BID AQ-002-000 SES2 and AP2 ES

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
208800	154	111	19
208900	154	58	19
209000	154	58	19
209100	154	59	22
209200	123	52	22
209300	93	56	22
209400	93	53	22
209500	93	53	22
209600	93	59	33
209700	93	54	33
209800	93	96	33
209900	93	88	33
210000	93	171	105
210100	93	179	105
210200	93	121	72
210300	31	121	72
210400	31	121	72
210500	31	219	72
210600	31	217	36
210700	31	217	36
210800	31	217	36
210900	31	217	36
211000	31	217	36
211100	31	217	36
211200	31	217	36
211300	31	243	36
211400	31	204	36
211500	31	204	36
211600	31	204	36
211700	31	204	36

BID AQ-002-000 SES2 and AP2 ES

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
211800	31	204	36
211900	31	204	36
212000	31	204	36
212100	93	204	36
212200	123	230	36
212300	31	223	36
212400	31	142	0
212500	31	142	0
212600	31	142	0
212700	31	142	0
212800	31	142	0
212900	31	142	0
213000	31	142	0
213100	31	142	0
213200	31	142	0
213300	31	142	0
213400	31	153	0
213500	31	127	0
213600	31	127	0
213700	31	127	0
213800	31	127	0
213900	31	149	8
214000	31	122	8
214100	31	122	8
214200	31	122	8
214300	31	122	8
214400	31	156	8
214500	31	145	8
214600	31	150	8
214700	31	161	8

BID AQ-002-000 SES2 and AP2 ES

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
214800	31	154	8
214900	31	153	12
215000	31	139	12
215100	31	139	12
215200	31	139	12
215300	31	139	12
215400	31	144	53
215500	64	39	41
215600	98	5	41
215700	98	5	41
215800	98	5	41
215900	98	6	41
216000	33	119	63
216100	33	126	63
216200	33	111	21
216300	33	111	21
216400	33	111	21
216500	33	111	21
216600	33	111	21
216700	33	115	21
216800	33	110	21
216900	-	-	21
YA – Yarlet School	-	-	63
YB – Yarlet School	-	-	41

4 Stone and Swynnerton (CA3)

4.1.1 Table 5 and Table 6 present the traffic flows used in the air quality assessment from construction related vehicles on the highway network, on the haul roads and at areas of construction activities along the route. Vehicles along the route are split into 20 tonne HGVs used in the construction of the rail systems and 40 tonne ADTs, which travel along the route.

Table 5: Highway network construction traffic flows in the Stone and Swynnerton area

Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-026	A34 Stone Road (between Yarlet Lane and Stone Road/nortbound)	22,687	23,325	638	1,275	1,574	299
AQ-028	B5026 Eccleshall Road (between Pirehill Lane and the HS2 route)	4,581	4,839	257	304	350	47
AQ-029	C0088 Yarnfield Lane (between the HS2 route and eastbound of M6 junction 15 to junction 14)	4,331	4,407	76	124	200	76
AQ-030	C0001 Tittensor Road (between C0002 Stab Lane and A51 Stone Road)	2,572	2,855	283	65	84	19
AQ-031	C0002 Stab Lane (between Tittensor Road and the HS2 route)	1,348	1,348	0	61	61	0
AQ-032	A51 Stone Road (between the HS2 route and Tittensor Road)	4,306	4,622	316	233	241	8
AQ-033	A51 Stone Road (between the HS2 route and Newcastle Road)	4,113	4,429	316	220	228	8
AQ-035	A519 Newcastle Road (between Stone Road and the HS2 route)	5,154	6,099	945	493	576	82
AQ-037	C0219 Bent Lane (between A0051 The Rowe and the HS2 route)	670	709	39	19	40	21
AQ-102	A34 Stafford Road (between Aston roundabout at junction with A51 southbound and the HS2 route)	21,991	23,008	1,017	1,218	1,931	714
AQ-103	A34 Stafford Road (between Walton roundabout at junction with A520 and Aston roundabout at junction with A51 southbound)	30,768	31,614	846	1,836	1,980	144
AQ-110	C0045 Chase Lane (between Winghouse Lane and Stone Road)	1,220	1,220	0	32	32	0
AQ-112	C0001 Winghouse Lane (between Chase Lane and Stone Road)	2,436	2,436	0	73	73	0

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Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-114	A500 Queensway (between M6 junction 16 to A500 Hanchurch roundabout and A34 Stone Road)	44,227	45,322	1,095	6,270	6,272	1
AQ-115	A5182 Trentham Road (between Newcastle Road and A53 from A5192 Trentham Road to Bent Lane)	7,508	8,398	890	687	1,160	473
AQ-116	A519 Newcastle Road (between Long Lane and Drayton Road)	6,349	7,109	760	535	648	113
AQ-117	A519 Newcastle Road (between Station Road and Stone Road)	5,553	5,837	284	486	493	7
AQ-156	A51 Bury Bank (between Winghouse Lane and Stone Road)	4,267	4,545	278	138	152	14
AQ-157	A51 Stone Road (between Winghouse Lane and Tittensor Road)	6,737	7,015	278	156	170	14
AQ-158	A51 Stone Road (between Newcastle Road and Common Lane)	3,498	3,579	81	115	153	38
AQ-164	D2088 Hanchurch Lane (between A0519 Newcastle Road and D2083 Peacock Lane)	485	485	0	7	7	0
AQ-165	A519 Newcastle Road (between Drayton Road and Hanchurch Lane)	6,934	7,752	818	272	436	164
AQ-166	A519 Newcastle Road (between Hanchurch Lane and Whitmore Road)	8,350	9,168	818	180	345	164
AQ-167	A519 Newcastle Road (between Whitmore Road and A500 Hanchurch roundabout at junction with A519)	15,172	16,813	1,640	726	1,295	569
AQ-200	C0088 Yarnfield Lane (between D2433 Ashdale Park and Stone Dominoes Soccer Club)	4,158	4,505	347	26	26	0
AQ-204	C0088 Yarnfield Lane (between Moss Lane and Stone Dominoes Soccer Club)	4,168	4,515	347	247	247	0
AQ-205	B5026 Eccleshall Road (between Meece Road and the HS2 route)	4,731	4,731	0	96	96	0
AQ-263	M6 junction 16 to A500 Hanchurch roundabout	35,000	37,079	2,079	4,455	5,025	569
AQ-272	M6 junction 15 to junction 16 at Cheshire boundary	114,073	117,160	3,086	21,559	23,276	1,718

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Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-273	M6 junction 14 to junction 15 (between M6 junction 14 to junction 15 off slip and Yarnfield Lane)	129,385	131,929	2,544	22,454	24,228	1,773
AQ-278	A519 Stoke on Trent	16,718	16,718	0	484	484	0
AQ-283	A34 Stone southbound	26,342	27,426	1,084	1,654	2,367	714
AQ-284	A51 Stone southbound	16,608	17,217	610	1,077	1,308	231
AQ-296	A520 Stoke on Trent	18,435	18,482	47	1,279	1,279	0
AQ-297	A520 Stoke on Trent	14,959	15,014	55	583	583	0
AQ-298	A50 Stoke on Trent	76,700	76,709	9	7,645	7,645	0
AQ-315	A500 Queensway southbound (between A52 and A50)	90,691	90,828	137	10,163	10,163	0
AQ-316	A50 eastbound (between A500 Queensway and A5007 Uttoxeter Road)	79,000	79,281	282	7,823	7,823	0
AQ-321	M6 junction 15 southbound exit	7,374	8,036	662	1,300	1,414	114
AQ-322	M6 junction 15 northbound access	7,814	8,495	682	1,399	1,513	114
AQ-323	M6 junction 15 southbound within junction	101,934	103,770	1,835	22,554	24,044	1,490
AQ-347	A50 Uttoxeter Road westbound (within the A520 Weston Road junction)	60,678	60,688	9	7,272	7,272	0
AQ-348	A50 Uttoxeter Road westbound exit for A520 Weston Road	5,866	5,866	0	711	711	0
AQ-349	A50 Uttoxeter Road eastbound exit for A520 Weston Road	9,654	9,654	0	916	916	0
AQ-350	A500 Queensway northbound (within the A50 junction)	35,019	35,088	68	2,940	2,940	0
AQ-367	Coo88 Yarnfield Lane southbound (south from emergency access road to/from M6)	4,175	4,175	0	147	147	0
AQ-369	Coo88 Yarnfield Lane southbound (across M6 between the emergency access roads)	4,241	4,241	0	172	172	0
AQ-616	Yarnfield Lane realignment (north of M6)	0	742	742	0	542	542
AQ-625	Temporary construction slip road along the A34 Stone Road	0	1,003	1,003	0	621	621

BID AQ-002-000 SES2 and AP2 ES

Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-636	Slip road along the M6 (south of M6 to Yarnfield Lane)	0	352	352	0	352	352
AQ-643	Slip road along the M6 (north of M6 to Yarnfield Lane)	0	522	522	0	352	352
AQ-645	Slip road from Yarnfield Lane to the northern M6 slip road	0	850	850	0	522	522

Table 6: Haul road and along the route construction traffic flows in the Stone and Swynnerton area

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
216400	-	-	21
216500	33	111	21
216600	33	111	21
216700	33	115	21
216800	33	110	21
216900	33	110	21
217000	33	110	21
217100	33	258	21
217200	33	245	9
217300	33	245	9
217400	33	245	9
217500	33	278	9
217600	33	274	9
217700	33	274	9
217800	33	274	9
217900	33	290	9
218000	33	195	0
218100	33	142	0
218200	33	142	0
218300	33	142	0
218400	33	149	0

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
218500	33	117	0
218600	33	116	0
218700	33	116	0
218800	33	116	0
218900	33	116	0
219000	33	116	0
219100	33	116	0
219200	33	116	0
219300	33	116	0
219400	33	338	32
219500	33	292	32
219600	33	292	32
219700	33	292	32
219800	33	292	32
219900	33	292	32
220000	33	628	48
220100	33	503	48
220200	33	501	48
220300	33	501	48
220400	33	506	48
220500	33	500	48
220600	33	544	53
220700	33	545	53
220800	33	570	75
220900	33	568	75
221000	67	843	116
221100	100	580	41
221200	100	580	41
221300	100	580	41
221400	100	580	41

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
221500	100	640	36
221600	167	640	36
221700	167	135	16
221800	167	135	16
221900	167	136	16
222000	100	110	16
222100	33	146	16
222200	33	146	15
222300	33	145	15
222400	33	183	15
222500	33	167	12
222600	33	168	12
222700	33	174	12
222800	33	225	0
222900	33	224	0
223000	33	224	0
223100	33	224	0
223200	33	463	22
223300	33	436	22
223400	33	436	22
223500	33	437	22
223600	33	437	22
223700	33	438	22
223800	33	378	22
223900	33	381	23
224000	33	403	23
224100	33	402	23
224200	33	403	23
224300	33	403	23
224400	33	403	23

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
224500	33	403	23
224600	33	494	27
224700	33	475	27
224800	66	474	27
224900	65	474	27
225000	65	474	27
225100	32	473	27
225200	32	442	27
225300	32	452	27
225400	32	439	27
225500	32	439	27
225600	32	439	27
225700	32	439	27
225800	32	439	27
225900	32	439	27
226000	32	439	27
226100	32	508	63
226200	32	301	159
226300	32	289	95
226400	32	289	95
226500	32	255	95
226600	32	255	95
226700	32	255	95
226800	32	255	95
226900	32	255	95
227000	32	262	95
227100	32	263	95
227200	32	262	95
227300	32	262	95
227400	32	262	95

BID AQ-002-000 SES2 and AP2 ES

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
227500	32	303	95
227600	32	265	67
227700	32	265	67
227800	32	265	67
227900	32	265	67
228000	32	269	67
228100	32	262	67
228200	32	262	67
228300	32	262	67
228400	32	262	67
228500	32	262	67
228600	32	274	67
228700	32	278	67
228800	32	111	57
228900	32	111	57
229000	32	112	57
229100	32	111	57
229200	32	111	57
229300	32	120	57
229400	32	111	57
229500	32	119	57
229600	32	103	57
229700	32	136	57
229800	32	125	37
229900	32	125	37
230000	32	132	37
230100	32	123	37
230200	32	126	37
230300	32	97	19
230400	32	97	-

BID AQ-002-000 SES2 and AP2 ES

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
230500	32	118	-
Railhead	0	290	-

5 Whitmore Heath to Madeley (CA4)

5.1.1 Table 7 and Table 8 present the traffic flows used in the air quality assessment from construction related vehicles on the highway network, on the haul roads and at areas of construction activities along the route. Vehicles along the route are split into 20 tonne HGVs used in the construction of the rail systems) and 40 tonne ADTs, which travel along the route.

Table 7: Highway network construction traffic flows in the Whitmore Heath to Madeley area

Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-037	Co219 Bent Lane (between A0051 The Rowe and the HS2 route)	670	709	39	19	40	21
AQ-038	A53 Newcastle Road (between the HS2 route and Common Lane)	13,475	13,759	283	796	928	132
AQ-039	D2042 Heath Road (between D2097 Common Lane and the HS2 route)	68	68	0	2	2	0
AQ-040	D2042 Heath Road (between D2097 Common Lane and the HS2 route)	26	26	0	1	1	0
AQ-041	Co118 Manor Road (between Bar Hill and the HS2 route)	1,177	1,350	173	37	86	48
AQ-042	A525 Bar Hill lane (between Red Lane and the HS2 route)	3,201	3,366	165	95	207	112
AQ-043	D2031 Bower End Lane (between Moss Lane and the HS2 route)	77	77	0	9	9	0
AQ-115	A5182 Trentham Road (between Newcastle Road and A53 from A5192 Trentham Road to Bent Lane)	7,508	8,398	890	687	1,160	473
AQ-119	A53 from A5192 Trentham Road to Bent Lane (between Trentham Road and Bent Lane)	14,035	14,909	874	815	1,287	473
AQ-120	A53 Newcastle Road (between Holly Bush Lane and Nantwich Road)	10,481	10,638	157	768	901	132
AQ-121	D2039 Holly Bush Lane (between Newcastle Road and Madeley Road)	1,501	1,501	0	51	51	0
AQ-162	A51 Stone Road (between Clayalders Bank and Nantwich Road)	3,640	3,670	29	130	130	0
AQ-163	A51 Nantwich Road (between Newcastle Road and Maerway Lane)	4,791	4,998	207	92	225	132
AQ-172	A525 Bar Hill Lane (between Red Lane and Manor Road)	3,301	3,769	468	44	92	48
AQ-173	Red Lane (south of A525 Bar Hill)	14	14	0	2	2	0

BID AQ-002-000 SES2 and AP2 ES

Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-219	A531 Crewe Road (between Bowsey Wood Road and Newcastle Road)	4,274	4,528	254	40	40	0
AQ-220	A525 Newcastle Road (between New Road and Crewe Road)	6,453	6,734	280	56	56	0
AQ-224	C0119 Three Mile Lane (between A0053 Newcastle Road and Lymes Road)	1,253	1,253	0	19	19	0
AQ-249	A525 Woore Road (between D2213 Isaac Walton Way and D2032 Vicarage Lane)	4,252	4,790	538	57	57	0
AQ-266	A51 Nantwich Road (between A51 Stone Road and A53 Newcastle Road)	14,499	14,706	207	750	882	132
AQ-268	D2097 Common Lane (between A53 Newcastle Road and D2042 Heath Road)	365	498	133	19	19	0
AQ-272	M6 junction 15 to junction 16 at Cheshire boundary	114,073	117,160	3,086	21,559	23,276	1,718
AQ-278	A519 Stoke on Trent	16,718	16,718	0	484	484	0
AQ-279	A525 Madeley	4,345	4,495	150	162	294	132
AQ-321	M6 junction 15 southbound exit	7,374	8,036	662	1,300	1,414	114
AQ-323	M6 junction 15 southbound within junction	101,934	103,770	1,835	22,554	24,044	1,490

Table 8: Haul road and along the route construction traffic flows in the Whitmore Heath to Madeley area

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
230200	32	126	37
230300	32	97	19
230400	32	97	19
230500	32	118	19
230600	32	158	19
230700	32	133	0
230800	32	134	0
230900	32	121	11
231000	32	146	11

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
231100	32	163	13
231200	32	141	13
231300	32	115	13
231400	60	283	15
231500	60	281	15
231600	60	197	26
231700	60	194	-
231800	60	198	-
231900	60	196	-
231900_ALL	-	-	26
232000	60	196	26
232100	0	196	26
232200	0	277	131
232300	0	403	106
232400	0	376	98
232500	0	376	98
232600	0	376	98
232700	0	376	98
232800	0	376	98
232900	0	376	98
233000	0	378	98
233100	28	336	92
233200	28	336	92
233300	28	336	92
233400	28	331	57
233500	28	346	57
233600	28	344	57
233700	28	344	57
233800	28	344	49
233900	28	344	49

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
234000	28	454	49
234100	28	299	42
234200	28	299	42
234300	28	299	-
234300a	-	-	42
234300b	-	-	42
234400	28	300	-
234400a	-	-	42
234400b	-	-	42
234500	28	285	-
234500a	-	-	42
234500b	-	-	42
234600	28	285	-
234600a	-	-	42
234600b	-	-	42
234700	28	285	-
234700a	-	-	42
234700b	-	-	42
234800	28	287	-
234800a	-	-	42
234800b	-	-	42
234900	28	1,219	-
234900a	-	-	42
234900b	-	-	42
235000	28	598	4
235100	28	598	4
235200	28	648	4
235300	28	647	4
235400	28	647	4
235500	28	647	4

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
235600	28	659	4
235700	28	525	0
235800	28	525	0
235900	28	579	12
236000	28	607	12
236100	28	557	12
236200	28	557	12
236300	28	557	12
236400	28	557	12
236500	28	586	23
236600	28	505	24
236700	28	505	24
236800	28	507	33
A526_HGV	-	-	60
236900	55	518	-
237000	55	518	60
237100	55	513	27
237200	28	475	13
237300	0	475	9
237400	0	475	9
237500	0	475	9
237600	0	475	9
237700	0	404	4
237800	0	404	4
237900	0	404	4
238000	0	404	4
238100	0	449	4
238200	0	432	0
238300	0	432	0
238400	0	432	0

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
238500	0	432	0
238600	0	432	0
238700	0	480	11
238800	0	429	11
238900	0	429	11
239000	0	429	11
239100	0	428	11
239200	0	428	11
239300	0	430	11
A53_HGV1	-	-	26
A53_HGV2	-	-	26

6 South Cheshire (CA5)

6.1.1 Table 9 and Table 10 present the traffic flows used in the air quality assessment from construction related vehicles on the highway network, on the haul roads and at areas of construction activities along the route. Vehicles along the route are split into 20 tonne HGVs used in the construction of the rail systems) and 40 tonne ADTs, which travel along the route.

Table 9: Highway network construction traffic flows in the South Cheshire area

Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-044	Co348 Checkley Lane (between the HS2 route and Ao531 Main Road)	1,041	1,041	0	33	33	0
AQ-045	Den Lane (between Mill Lane and Den Lane)	179	487	308	73	81	8
AQ-046	Chorlton Lane (between the HS2 route and Waybutt Lane)	70	72	2	3	3	0
AQ-047	Newcastle Road (between Chorlton Lane and east of the HS2 route)	8,329	8,455	126	359	359	0
AQ-048	Casey lane (between Back lane and the HS2 route)	819	819	0	6	6	0
AQ-049	Weston Lane (between Casey Lane and Larch Avenue)	1,388	1,388	0	16	16	0
AQ-050	A500 Shavington ByPass (between A500 Crewe Green Link roundabout and the HS2 route)	33,364	34,999	1,636	1,725	2,770	1,045
AQ-064	Chorlton Lane (between Waybutt Lane and Newcastle Road)	262	262	0	9	9	0
AQ-065	Weston Lane (between Casey Lane and Cemetery Road)	2,162	2,162	0	24	24	0
AQ-066	Waybutt Lane (south of Chorlton Lane)	25	25	0	2	2	0
AQ-122	Checkley Lane (between A51 London Road and the HS2 route)	994	1,078	83	44	60	16
AQ-128	A500 Shavington ByPass (between A5020 Weston Road and Main Road)	27,406	28,834	1,428	1,489	2,534	1,045
AQ-129	A500 Newcastle Road (between M6 and A500 Meremoor roundabout)	35,449	37,501	2,053	2,689	3,757	1,067
AQ-130	A500 Shavington ByPass (between A500 Shavington ByPass roundabout and Rope Lane)	27,830	27,860	30	1,621	1,652	30
AQ-175	D3084 Mill Lane (between Den Lane and Beech Farm)	164	187	23	1	1	0

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Road ID	Road name	Annual average daily traffic (AADT) flows			Heavy goods vehicle (HGV) flows		
		2020 without the scheme	2020 with the scheme	Change	2020 without the scheme	2020 with the scheme	Change
AQ-176	Wrinehill Road (north of Mill Lane)	168	260	92	38	48	10
AQ-223	A531 Main Road (between Waybutt Lane and Checkley Lane)	6,307	6,737	430	69	69	0
AQ-231	Turnocks Lane halfway from Checkley Lane	116	116	0	8	8	0
AQ-271	M6 (between M6 junction 16 at Cheshire boundary to junction 15 and B5078 Radway Green Road)	131,859	135,150	3,291	25,234	26,675	1,442
AQ-272	M6 junction 15 to junction 16 at Cheshire boundary	114,073	117,160	3,086	21,559	23,276	1,718
AQ-309	A531 Madeley	11,518	12,030	512	231	231	0
AQ-318	M6 junction 16 northbound access	12,756	13,239	483	2,925	3,124	200
AQ-386	M6 junction 15 to junction 16 off slip	9,187	12,273	3,086	613	2,331	1,718
AQ-390	M6 junction 17 to junction 16 off slip	16,640	19,931	3,291	1,906	3,348	1,442
AQ-393	David Whitby Way (between A500 Crewe Green Link roundabout and David Whitby Way roundabout)	20,952	21,134	182	419	425	6
AQ-437	A500 Newcastle Road (between Barthomley Road and Radway Green Road)	32,292	34,345	2,053	2,289	3,356	1,067
AQ-439	A500 Newcastle Road (between Radway Green Road and M6 junction 16 to junction 17)	32,845	34,897	2,053	2,318	3,385	1,067
AQ-507	Main Road (between Snape Lane and Cemetery Road)	9,169	9,212	43	140	140	0
AQ-508	Main Road (between Snape Lane and A531 Weston roundabout)	11,240	11,282	43	146	146	0
AQ-514	Weston Lane (between Holly Mount and Larch Farm)	2,114	2,114	0	20	20	0
AQ-516	Weston Road (between Whites Lane and Cemetery Road)	10,391	10,434	43	146	146	0
AQ-518	Main Road (between Whites Lane and A5020 Weston Road)	12,455	12,504	49	163	163	0
AQ-534	B5071 Link Road (between B5071 Crewe Road and A500 Shavington ByPass roundabout)	5,901	6,732	832	110	630	519
AQ-642	New road between Newcastle Road and Weston Lane (via Casey Lane)	0	850	850	0	522	522

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Table 10: Haul road and along the route construction traffic flows in the South Cheshire area

ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump trucks (along the route)	No. 20 tonne HGVs (on the haul roads)
239000	-	-	11
239100	0	428	11
239200	0	428	11
239300	0	430	11
239400	0	385	11
239500	0	387	11
239600	0	386	11
239700	0	393	21
239800	0	354	29
239900	0	366	32
240000	44	366	41
240100	44	365	41
240200	44	767	44
240300	44	605	44
240400	44	605	44
240500	44	617	50
240600	44	592	50
240700	44	592	50
240800	44	592	50
240900	44	600	50
241000	44	596	52
241100	44	596	52
241200	44	596	52
241300	44	711	54
241400	44	576	54
241500	44	576	54
241600	44	576	54
241700	44	578	77
241800	44	519	77
241900	44	519	77

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
242000	44	519	77
242100	44	519	77
242200	44	519	77
242300	44	526	77
242400	44	525	77
242500	44	522	77
242600	44	562	143
242700	44	347	143
242800	44	347	143
242900	44	347	143
243000	44	555	175
243100	44	519	175
243200	44	526	175
243300	44	516	175
243400	44	511	175
243500	44	514	175
243600	44	516	202
243700	44	516	202
243800	44	527	202
243900	44	523	202
244000	44	523	202
244100	44	523	202
244200	44	523	202
244300	44	523	202
244400	44	523	202
244500	44	523	202
244600	44	553	260
244700	44	536	260
244800	88	536	260
244900	132	536	262

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ID	No. 20 tonne HGVs (along the route)	No. 40 tonne articulated dump tracks (along the route)	No. 20 tonne HGVs (on the haul roads)
245000	88	536	262
245200	44	536	265
245100	44	536	262
245300	44	536	265
245400	44	536	265
245500	44	509	265
245600	44	532	265
245700	0	542	265
245800	0	607	297
245900	0	209	11
246000	0	209	11
246100	0	209	11
246200	0	209	0
246300	0	209	0
246400	0	209	0
246500	0	209	0
246600	0	209	0
246700	0	209	0
246800	0	209	0
246900	-	-	0
247000	-	-	0

7 References

HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2a-environmental-statement>.

HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Background Information and Data to accompany Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2a-environmental-statement#background-information-and-data>.

HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Impact Assessment Scope and Methodology Report, Environmental Statement, Volume 5: Appendix CT-001-001*. Available online at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/627187/E23_EIA_SMR_CT-001-001_WEB.pdf.

HS2 Ltd (2017), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Impact Assessment Scope and Methodology Report Addendum, Environmental Statement, Volume 5: Appendix CT-001-002*. Available online at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/627188/E24A_CT-001-002_Part_1_WEB.pdf and https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/627189/E24-B_CT-001-002_Part_B_WEB.pdf.

HS2 Ltd (2019), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement*. Available online at: <https://www.gov.uk/government/organisations/high-speed-two-limited>.

HS2 Ltd (2019), *High Speed Two (HS2) Phase 2a (West Midlands - Crewe), Environmental Impact Assessment Scope and Methodology Report Addendum 2, Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement, Volume 5: Appendix SES2 and AP2 ES CT-001-000*. Available online at: <https://www.gov.uk/government/organisations/high-speed-two-limited>.

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