

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

**Background information and data  
accompanying SES2 and AP2 ES**

## **Air quality**

BID AQ-002-OR003 SES2 and AP2 ES

Additional data used in the air quality assessment

Off-route works: Annandale depot

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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 accompanying Supplementary Environmental Statement 2 and  
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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) High Speed Rail (Crewe – Manchester) Supplementary Environmental Statement 2 (SES2) and Additional Provision 2 Environmental Statement (AP2 ES)<sup>1</sup> for the off-route works at Annandale depot.
- 1.1.2 This document contains the traffic data that was used in the air quality assessment set out in the SES2 and AP2 ES.
- 1.1.3 This document details supplementary air quality baseline data not reported in the BID document<sup>2</sup> that accompanied the High Speed Two (HS2) High Speed Rail (Crewe – Manchester) Environmental Statement (the main ES)<sup>3</sup> or the Supplementary Environmental Statement 1 (SES1) and Additional Provision 1 Environmental Statement (AP1 ES)<sup>4</sup> both published in 2022.
- 1.1.4 In order to differentiate between the original scheme and the subsequent changes, the following terms are used:
- ‘the original scheme’ – the Bill scheme submitted to Parliament in 2022, which was assessed in the main ES;
  - ‘the SES1 scheme’ – the original scheme with any changes described in SES1 that are within the existing powers of the Bill;
  - ‘the AP1 revised scheme’ – the original scheme as amended by SES1 changes and AP1 amendments;
  - ‘the SES2 scheme’ – the original scheme with any changes described in SES1 (submitted in July 2022) and the SES2; and

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<sup>1</sup> High Speed Two Ltd (2023), High Speed Rail (Crewe – Manchester), *Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement*. Available online at:

<https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-supplementary-environmental-statement-2-and-additional-provision-2-environmental-statement>.

<sup>2</sup> High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Background Information and Data accompanying Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement*. Available online at:

<https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-supplementary-environmental-statement-1-and-additional-provision-1-environmental-statement>

<sup>3</sup> High Speed Two Ltd (2022) High Speed Rail (Crewe – Manchester), *Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

<sup>4</sup> High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement*. Available online

at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-supplementary-environmental-statement-1-and-additional-provision-1-environmental-statement>.

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- 'the AP2 revised scheme' – the original scheme as amended by SES1 and SES2 changes (as relevant) and AP2 amendments.

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## 2 Methodology

- 2.1.1 Details of the methodology used are provided in the Environmental Impact Assessment Scope and Methodology Report (see main ES, Volume 5, Appendix: CT-001-00001)<sup>5</sup>.

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<sup>5</sup> High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement, Environmental Impact Assessment Scope and Methodology Report*, Volume 5, Appendix: CT-001-00001. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

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## **3 Construction traffic data**

- 3.1.1 Table 1 and Table 2 present the traffic flows used in the air quality assessment from construction related vehicles on the highway network (annual average daily traffic (AADT) and heavy duty vehicles (HDV)), on the site haul routes and at areas of construction activities along the route. Vehicles along the haul routes are split into 20 tonne heavy goods vehicles (HGV) used in the construction of the rail systems and 40 tonne articulated dump trucks (ADT), which travel along the route.



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**Table 1: Highway network construction traffic flows in the Off-route works: Annandale depot area**

Road ID	Start and end coordinates	AADT flows		HDV flows		Notes
		2026 without the AP2 revised scheme	2026 Scenario 1 with the AP2 revised scheme	2026 without the AP2 revised scheme	2026 Scenario 1 with the AP2 revised scheme	
3004_3005	328263, 570138 to 328423, 570062	1,116	1,470	155	239	
3005_3004	328263, 570138 to 328423, 570062	1,114	1,468	211	295	
3005_3006	328615, 569971 to 328622, 569926	1,116	1,470	155	239	
3005_3006	328423, 570062 to 328632, 569962	1,116	1,470	155	239	
3005_3006	328622, 569926 to 328950, 569679	1,116	1,470	155	239	
3006_3005	328723, 569764 to 328339, 570039	1,114	1,468	211	295	
3006_3005	328423, 570062 to 328632, 569962	1,114	1,468	211	295	
3006_3007	328632, 569962 to 328759, 569906	1,116	1,470	155	239	
3007_3006	328632, 569962 to 328759, 569906	1,114	1,468	211	295	
3007_3014	328759, 569906 to 329118, 569737	1,116	1,470	155	239	
3008_3009	329525, 569550 to 330286, 569197	817	937	98	181	
3008_3014	329118, 569737 to 329525, 569550	591	711	104	188	
3009_3008	329525, 569550 to 330286, 569197	591	711	104	188	
3009_3010	330286, 569197 to 330654, 569027	1,181	1,302	204	288	
3009_3010	330596, 568967 to 330995, 568762	1,181	1,302	204	288	
3010_3009	330155, 569093 to 330550, 568974	646	766	89	173	
3010_3009	330550, 568974 to 330579, 568981	646	766	89	173	
3010_3009	330286, 569197 to 330654, 569027	646	766	89	173	
3010_3011	330654, 569027 to 330596, 568982	0	110	0	84	
3010_3022	331519, 568628 to 330654, 569027	1,181	1,191	204	204	

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Road ID	Start and end coordinates	AADT flows		HDV flows		Notes
		2026 without the AP2 revised scheme	2026 Scenario 1 with the AP2 revised scheme	2026 without the AP2 revised scheme	2026 Scenario 1 with the AP2 revised scheme	
3011_3010	330654, 569027 to 330596, 568982	0	110	0	84	
3011_3012	330585, 568964 to 330504, 568758	0	110	0	84	
3012_3011	330585, 568964 to 330504, 568758	0	110	0	84	
3013_3014	329704, 569733 to 329133, 569767	0	474	0	168	
3013_3014	329133, 569767 to 329118, 569737	0	474	0	168	
3014_3007	328759, 569906 to 329118, 569737	1,114	1,468	211	295	
3014_3008	329118, 569737 to 329525, 569550	817	937	98	181	
3014_3013	329118, 569737 to 329704, 569733	0	474	0	168	
3015_3016	331489, 568583 to 328341, 570110	18,966	19,374	4,579	4,746	
3016_3015	331499, 568596 to 328350, 570125	18,966	19,374	4,579	4,746	
3022_3010	330654, 569027 to 331519, 568628	646	656	89	89	
3011_R	330579, 568981	323	493	44	170	
3004_3005	328263, 570138 to 328423, 570062	1,116	1,470	155	239	
3005_3004	328263, 570138 to 328423, 570062	1,114	1,468	211	295	

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**Table 2: Site haul route and along the route construction traffic flows in the Off-route works: Annandale depot area**

Road ID	No. 40 tonne ADT	No. 20 tonne HGV (along the route)	No. 40 tonne ADT (along the route)
01-Con	-	73	-
02-Con	-	73	-
03-Con	-	73	-
04-Con	-	73	-
05-Con	-	73	-
06-Con	-	73	-
07-Con	-	73	-
08-Con	-	73	-
09-Con	-	73	-
10-Con_CF	-	7	-
11-Con_CF	-	7	-
Haul-01	168	-	-
Haul-02	168	-	-
Haul-03	168	-	-
Haul-04	168	-	-
Haul-05	168	-	-

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## 4 References

High Speed Two Ltd (2023), High Speed Rail (Crewe – Manchester), *Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-supplementary-environmental-statement-2-and-additional-provision-2-environmental-statement>.

High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement, Environmental Impact Assessment Scope and Methodology Report*, Volume 5, Appendix: CT-001-00001. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

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