

A303 Amesbury to Berwick Down

TR010025

6.3 Environmental Statement Appendices

Appendix 5.1 Air Quality Monitoring Data

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

October 2018



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1 Diffusion Tube Monitoring Data

- 1.1.1 A six month NO₂ diffusion tube survey was undertaken at locations in close proximity to the scheme between December 2015 and June 2016. The survey used NO₂ diffusion tubes from Staffordshire Scientific Services prepared using 20% triethanolamine (TEA) in water.
- 1.1.2 The findings of this survey at locations considered within this stage of the assessment are presented in Table 5.1.1 and the locations of the diffusion tubes are shown on Figure 5.2.
- 1.1.3 The data has been adjusted to 2017 to match the year of traffic data used in the baseline scenario.

Table 5.1.1: Highways England diffusion tube monitoring results (µg/m³)

Site ID	OS Grid Ref		Site name	Site type	2017 Annual mean NO ₂ concentration (µg/m ³) ^{a, b}
	X	Y			
AMES_001	415365	142157	Countess Rd	Roadside	18.8
AMES_002	416665	143663	Bulford High St	Roadside	17.6
AMES_003	417800	143035	A3028 Double Hedges	Roadside	8.8
AMES_004	418596	143452	Bulford Barracks	Roadside	16.1
AMES_005	418217	142290	A303 Jnc Allington Track	Roadside	19.9
AMES_006	416625	141621	Maple Way	Roadside	12.7
AMES_007	415976	142114	Ratfyn Road	Kerbside	12.4
AMES_008	415768	141602	Cold Harbour	Roadside	10.2
AMES_009	415285	141308	Church Lane	Kerbside	8.8
AMES_010	411797	141854	A303 Longbarrow	Roadside	20.0
AMES_011	412007	142368	Stonehenge	Roadside	9.3
AMES_012	409966	141347	A303/A360	Roadside	21.6
AMES_013	407625	141021	Brook Close	Kerbside	10.0
AMES_014	407661	140685	Church Street	Kerbside	7.1
AMES_015	407126	139279	Berwick St. James (1)	Roadside	6.8
AMES_016	407188	139548	Berwick St. James (2)	Roadside	7.7
AMES_017	406876	140830	A303 Parsonage Down	Roadside	21.6
AMES_018	401189	138335	A36	Roadside	23.8
AMES_019	400950	138400	Deptford	Roadside	14.4
AMES_020	399997	138534	Fisherton De La Mere	Roadside	10.7
AMES_021	400775	137712	Wylve High Street	Kerbside	8.9
AMES_022	400916	137307	Dinton Road	Roadside	6.5
AMES_023	400410	137617	Dyer Lane	Kerbside	8.6

Site ID	OS Grid Ref		Site name	Site type	2017 Annual mean NO ₂ concentration (µg/m ³) ^{a, b}
	X	Y			
AMES_024	398147	134863	Cow Drive	Roadside	5.8
AMES_025	394168	133978	Unnamed Road	Roadside	8.6
AMES_026	394898	134845	A303	Roadside	15.8
AMES_027	393362	134312	A303 near Chicklade Bottom Farm	Roadside	13.1
AMES_028	391251	134488	A303 near The Old Rectory, Chicklade	Roadside	31.3
AMES_029	390996	134505	A303 near Seymour Farm	Roadside	21.2
AMES_030	391137	132973	B3089, Hindon	Kerbside	16.0
AMES_031	389941	134289	A303 near Knoyle Down Farm	Roadside	16.8
AMES_032	388633	133237	A3089 near junction with A303	Kerbside	11.7
AMES_033	412322	93343	Avonbourne College, Automatic Monitor	Urban Background	12.0
AMES_034	412322	93343	Avonbourne College, Automatic Monitor	Urban Background	11.7
AMES_035	412322	93343	Avonbourne College, Automatic Monitor	Urban Background	11.8

^a Bias-adjustment factors of 0.85 were applied to the diffusion tubes based on the results of triplicate co-location studies undertaken at the Charlton Mackrell and Bournemouth Porchester School Automatic Urban and Rural Monitoring Network (AURN) sites.

^b Seasonal adjustment factor of 0.91 was applied to the diffusion tubes based on the average ratio of the monitoring period mean and the 2017 annual mean at the Bournemouth, Charlton Mackrell, Reading New Town and Southampton Centre AURN sites.

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