

APPENDIX D – TRAFFIC DATA

Model Verification (2013)

Road ID	Road Link	Speed (kph)	Annual Average Daily Traffic Flow	%HDVs	NO _x Emission Factors (g/s/km)
1	A44 Oxford Road	67.3	17011	9.5	0.1194
1a	A44 Oxford Road Queue	30.0	17011	9.5	0.1939
3	A44 Woodstock Road	68.4	25691	7.3	0.1620
3a	A44 Woodstock Road Queue	30.0	25691	7.3	0.2575
4	A4095 Upper Campsfield Road	66.2	10568	7.3	0.0674
4a	A4095 Upper Campsfield Road Queue	30.0	10568	7.3	0.1061
5	A4095 Grove Road	48.3	16884	5.1	0.1102
5a	A4095 Grove Road	30.0	16884	5.1	0.1467
7	Hensington Road	40.1	2999	2.6	0.0183
7a	Hensington Road	30.0	2999	2.6	0.0214

Baseline (2014)

Road ID	Road Link	Speed (kph)	Annual Average Daily Traffic Flow	%HDVs	NO _x Emission Factors (g/s/km)	PM ₁₀ Emission Factors (g/s/km)
1	A44 Oxford Road	67.3	17123	9.5	0.1202	0.0075
1a	A44 Oxford Road Queue	30.0	17123	9.5	0.1952	0.0084
2	A44 Manor Road	58.1	13203	8.6	0.0944	0.0057
3	A44 Woodstock Road	68.4	25861	7.3	0.1631	0.0107
3a	A44 Woodstock Road Queue	30.0	25861	7.3	0.2592	0.0188
4	A4095 Upper Campsfield Road	66.2	10638	7.3	0.0678	0.0044
4a	A4095 Upper Campsfield Road Queue	30.0	10638	7.3	0.1068	0.0049
5	A4095 Grove Road	48.3	16995	5.1	0.1109	0.0067
5a	A4095 Grove Road Queue	30.0	16995	5.1	0.1476	0.0072
6	Shipton Road	52.3	1876	7.7	0.0136	0.0008
6a	Shipton Road Queue	30.0	1876	7.7	0.0194	0.0009
7	Hensington Road	40.1	3019	2.6	0.0184	0.0011

7a	Hensington Road Queue	30.0	3019	2.6	0.0216	0.0012
11	A34	112.7	66239	8.5	0.5399	0.0329
12	A40	96.6	42542	11.1	0.3257	0.0209

** When considering queuing traffic at junctions the approach within TG(09) was followed. It is considered that the combined effect of the three typical conditions (traffic pulling away from lights; traffic approaching lights when they are green and traffic approaching lights when red) at junctions is to be a two-way average speed of 20-40kph to be considered over 50m sections. For this assessment on the approach to a junction an average speed of 20kph on the 50m approach to a junction has therefore been modelled as a conservative approach.

Without Development (2033)

Road ID	Road Link	Speed (kph)	Annual Average Daily Traffic Flow	%HDVs	NO _x Emission Factors (g/s/km)	PM ₁₀ Emission Factors (g/s/km)
1	A44 Oxford Road	67.3	22070	9.5	0.1549	0.0097
1a	A44 Oxford Road Queue	30.0	22070	9.5	0.2516	0.0108
2	A44 Manor Road	58.1	17017	8.6	0.1217	0.0073
3	A44 Woodstock Road	68.4	36657	6.6	0.2239	0.0149
3a	A44 Woodstock Road Queue	30.0	36657	6.6	0.3526	0.0164
4	A4095 Upper Campsfield Road	66.2	13711	7.3	0.0874	0.0057
4a	A4095 Upper Campsfield Road Queue	30.0	13711	7.3	0.1376	0.0063
5	A4095 Grove Road	48.3	21905	5.1	0.1430	0.0086
5a	A4095 Grove Road Queue	30.0	21905	5.1	0.1903	0.0093
6	Shipton Road	52.3	2418	7.7	0.0175	0.0010
6a	Shipton Road Queue	30.0	2418	7.7	0.0249	0.0011
7	Hensington Road	40.1	3891	2.6	0.0237	0.0014
7a	Hensington Road Queue	30.0	3891	2.6	0.0278	0.0015
11	A34	112.7	84816	8.5	0.6913	0.0421
12	A40	96.6	60085	10.1	0.4452	0.0289

With Development (2033)

Road ID	Road Link	Speed (kph)	Annual Average Daily Traffic Flow	%HDVs	NO _x Emission Factors (g/s/km)	PM ₁₀ Emission Factors (g/s/km)
1	A44 Oxford Road	67.3	23025	9.1	0.1588	0.0100
1a	A44 Oxford Road Queue	30.0	23025	9.1	0.2569	0.0112
2	A44 Manor Road	58.1	17067	8.5	0.1219	0.0073

3	A44 Woodstock Road	68.4	37071	6.8	0.2290	0.0152
3a	A44 Woodstock Road Queue	30.0	37071	6.8	0.3617	0.0167
4	A4095 Upper Campsfield Road	66.2	14373	7.7	0.0935	0.0060
4a	A4095 Upper Campsfield Road Queue	30.0	14373	7.7	0.1481	0.0067
5	A4095 Grove Road	48.3	22460	4.9	0.1455	0.0088
5a	A4095 Grove Road Queue	30.0	22460	4.9	0.1934	0.0095
6	Shipton Road	52.3	2977	6.3	0.0200	0.0012
6a	Shipton Road Queue	30.0	2977	6.3	0.0281	0.0013
7	Hensington Road	40.1	4450	2.2	0.0264	0.0016
7a	Hensington Road Queue	30.0	4450	2.2	0.0309	0.0017
8	Site Access – Upper Campsfield Road	48.3	662	16.6	0.0074	0.0004
9	Site Access – A44 Oxford Road	48.3	1641	0.0	0.0074	0.0005
11	A34	112.7	84932	8.5	0.6920	0.0422
12	A40	96.6	60085	10.1	0.4452	0.0289

** Traffic data was not provided separately for the Link and Ride so the impact of this could not be assessed in isolation to the rest of the development.