

Appendices to Chapter G

Air Quality

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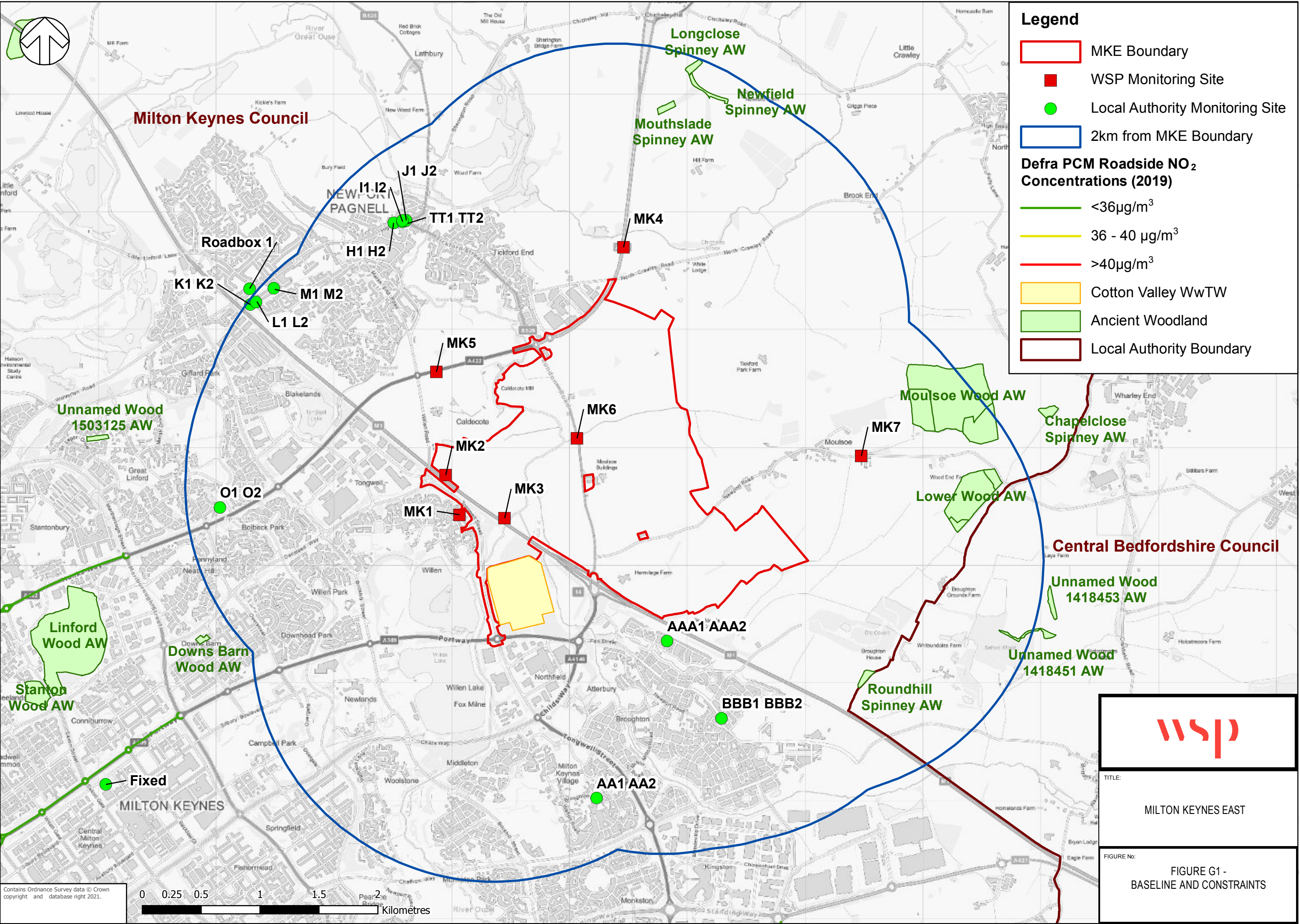
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Figures to Chapter G

Air Quality



Legend

- MKE Boundary
- WSP Monitoring Site
- Local Authority Monitoring Site
- 2km from MKE Boundary

Defra PCM Roadside NO₂ Concentrations (2019)

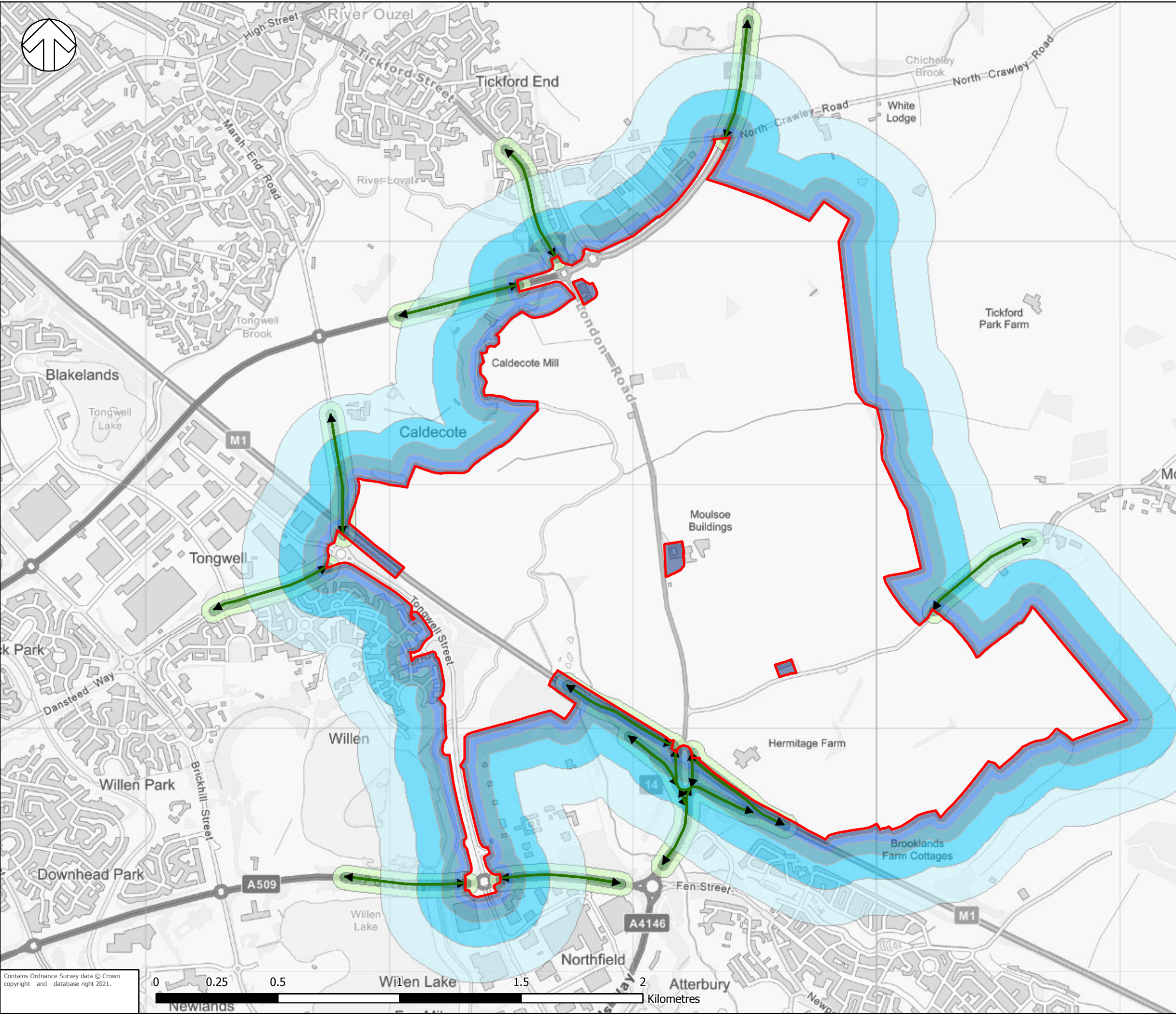
- <math>< 36 \mu\text{g}/\text{m}^3</math>
- $36 - 40 \mu\text{g}/\text{m}^3$
- >math>40 \mu\text{g}/\text{m}^3</math>

- Cotton Valley WwTW
- Ancient Woodland
- Local Authority Boundary

TITLE:
MILTON KEYNES EAST

FIGURE No:
FIGURE G1 -
BASELINE AND CONSTRAINTS

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Legend

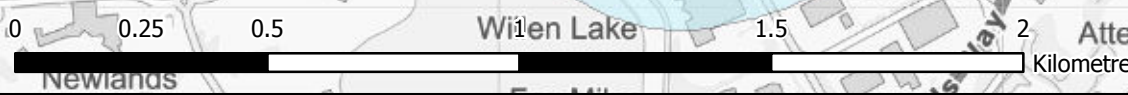
- MKE Boundary
- Dust Impact Zone**
 - 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m
- Haul Routes
- Haul Routes Dust Impact Zone**
 - 0-20m
 - 20-50m

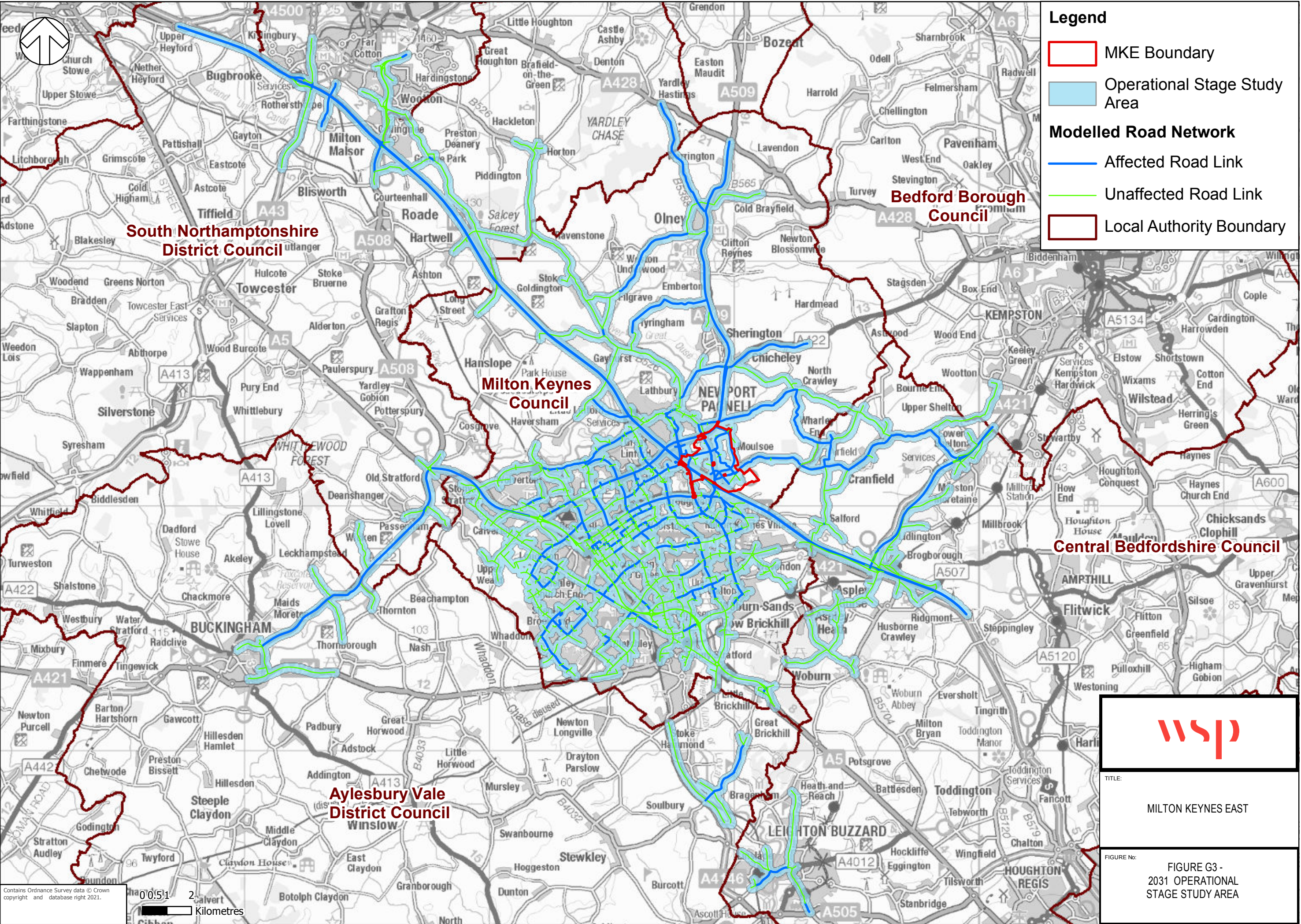



TITLE:
MILTON KEYNES EAST

FIGURE No:
FIGURE G2 - CONSTRUCTION
STAGE DUST ASSESSMENT

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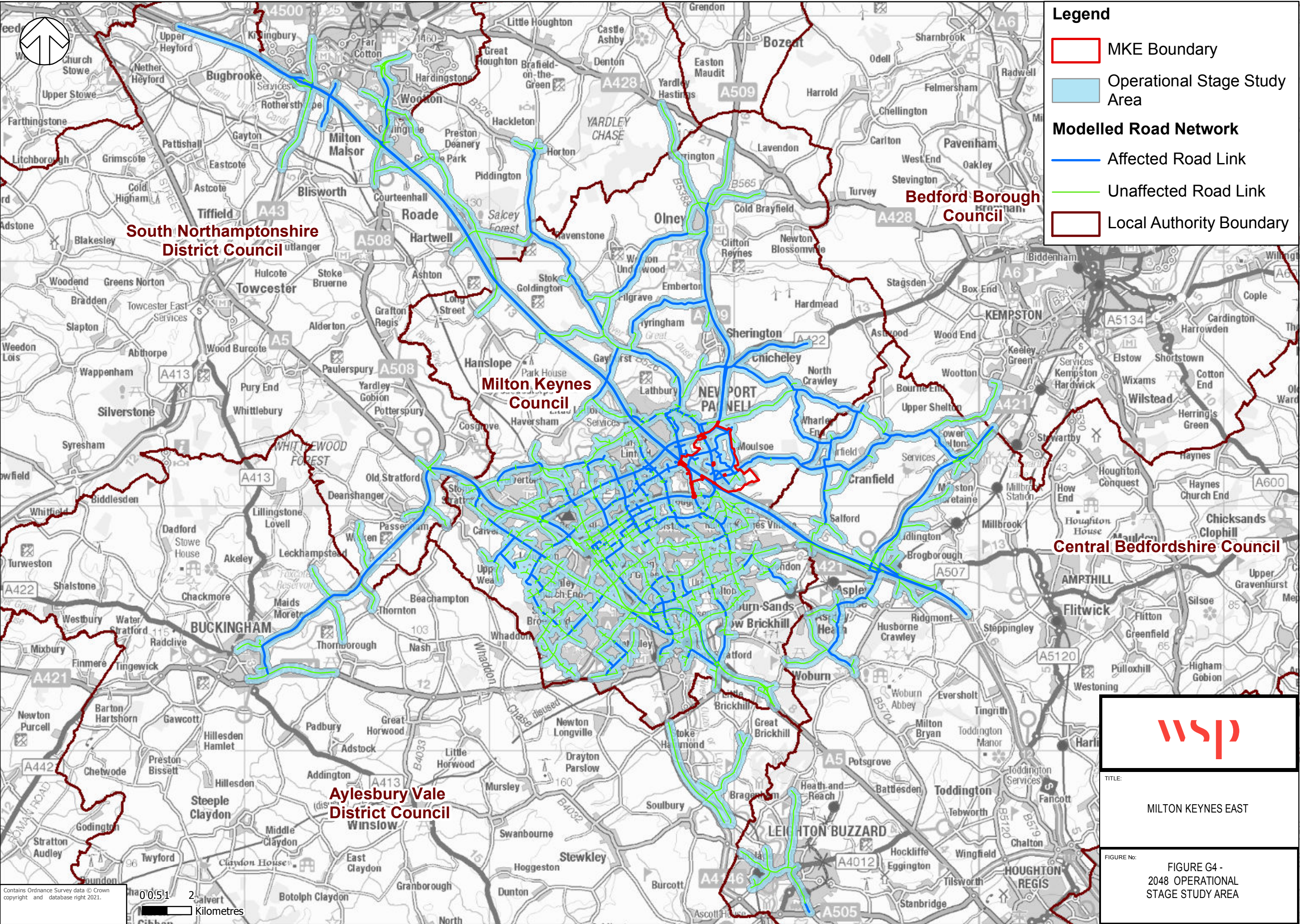







TITLE: MILTON KEYNES EAST

FIGURE No: FIGURE G3 - 2031 OPERATIONAL STAGE STUDY AREA

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Legend

-  MKE Boundary
-  Operational Stage Study Area
- Modelled Road Network**
 -  Affected Road Link
 -  Unaffected Road Link
-  Local Authority Boundary



TITLE
MILTON KEYNES EAST

FIGURE No:
FIGURE G4 -
2048 OPERATIONAL
STAGE STUDY AREA








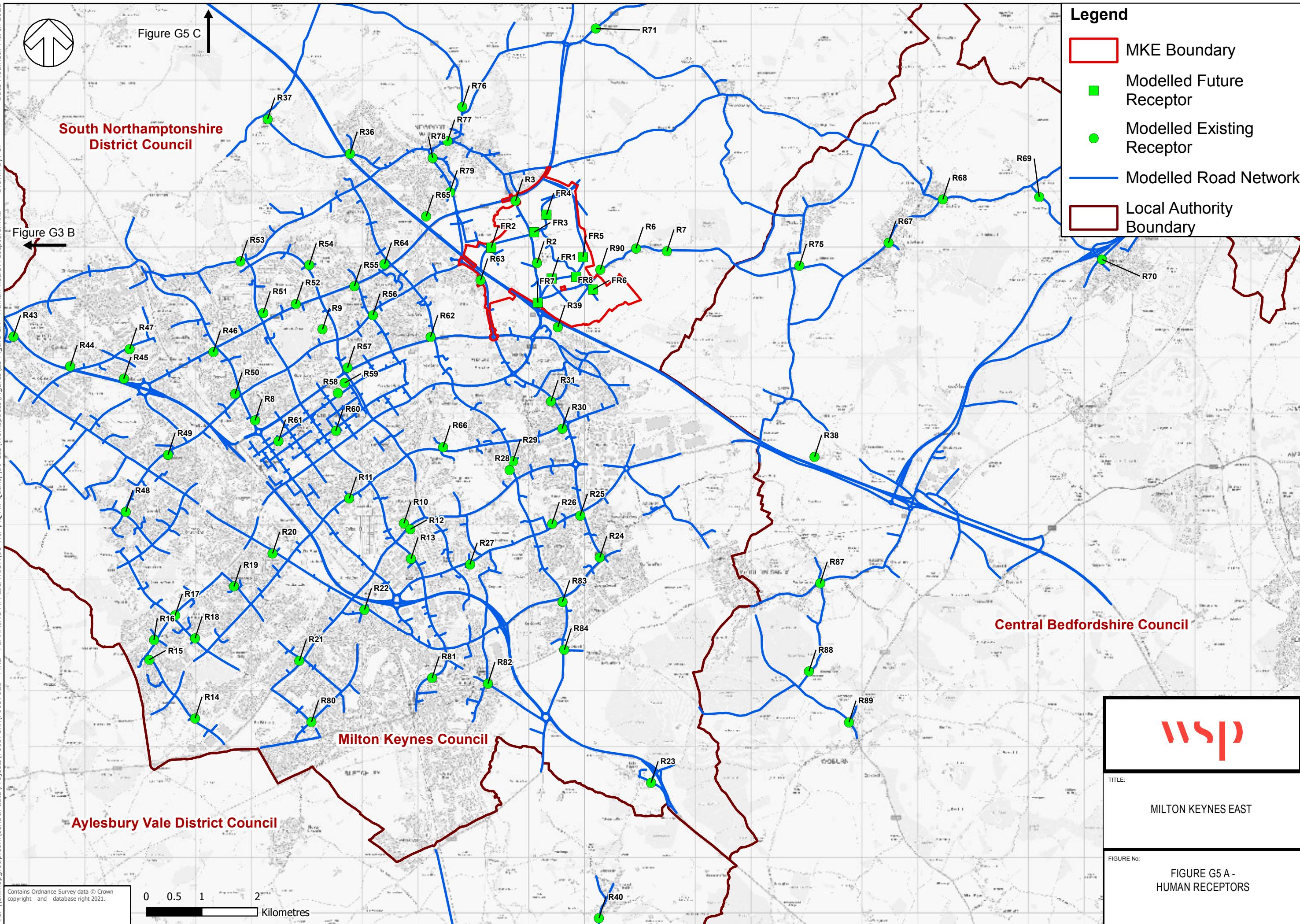
Figure G5 C

South Northamptonshire District Council

Figure G3 B

Legend

-  MKE Boundary
-  Modelled Future Receptor
-  Modelled Existing Receptor
-  Modelled Road Network
-  Local Authority Boundary



Central Bedfordshire Council

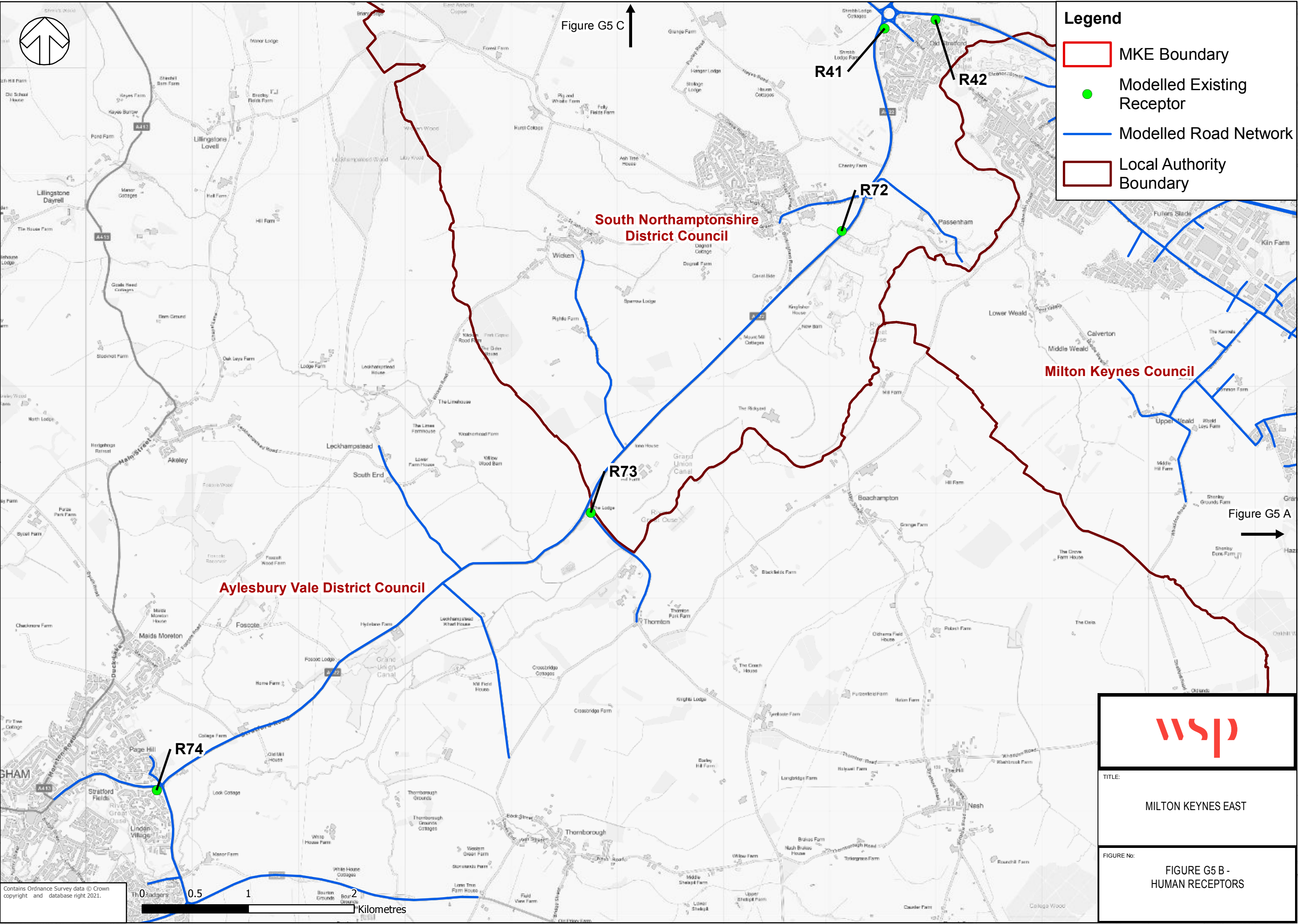
Milton Keynes Council

Aylesbury Vale District Council



TITLE:
MILTON KEYNES EAST

FIGURE No:
FIGURE G5 A -
HUMAN RECEPTORS




Legend

- MKE Boundary
- Modelled Existing Receptor
- Modelled Road Network
- Local Authority Boundary

Figure G5 C

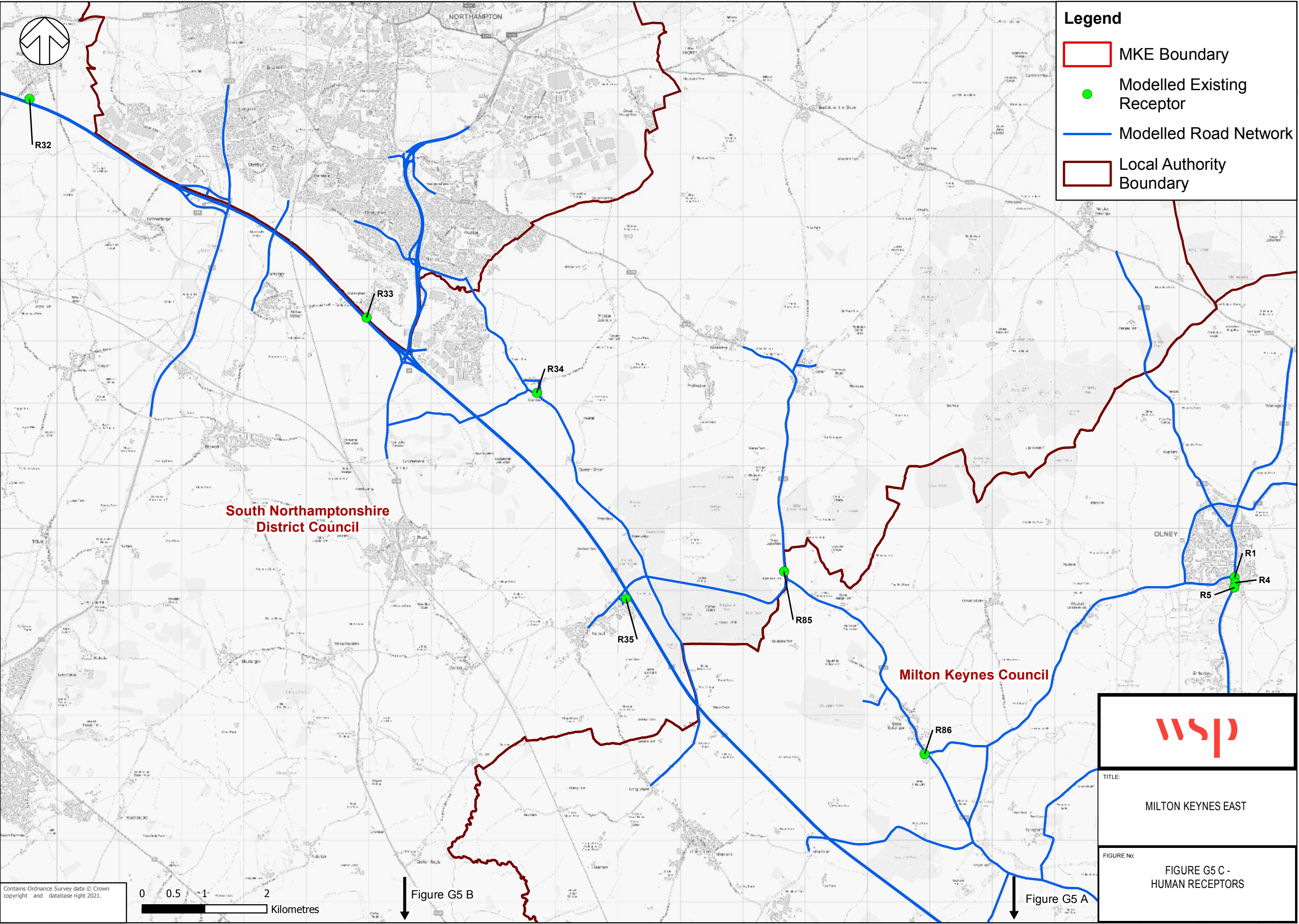
Figure G5 A



TITLE:
MILTON KEYNES EAST

FIGURE No:
FIGURE G5 B - HUMAN RECEPTORS

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Legend

- MKE Boundary
- Modelled Existing Receptor
- Modelled Road Network
- Local Authority Boundary

South Northamptonshire District Council

Milton Keynes Council



TITLE:
MILTON KEYNES EAST

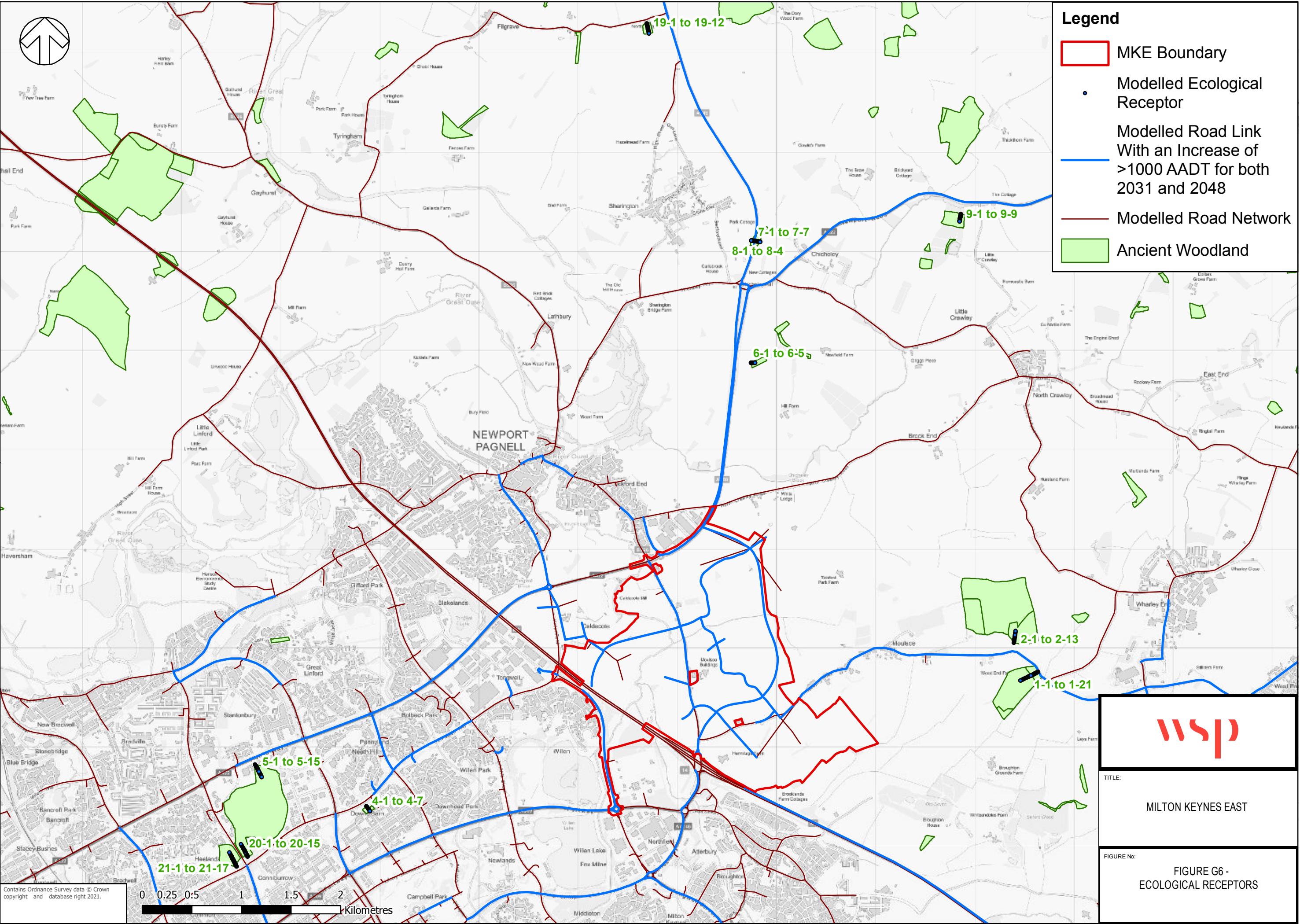
FIGURE No:
FIGURE G5 C - HUMAN RECEPTORS

0 0.5 1 2
Kilometres

Figure G5 B

Figure G5 A

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Legend

- MKE Boundary
- Modelled Ecological Receptor
- Modelled Road Link With an Increase of >1000 AADT for both 2031 and 2048
- Modelled Road Network
- Ancient Woodland



TITLE:
MILTON KEYNES EAST

FIGURE No:
FIGURE G6 -
ECOLOGICAL RECEPTORS

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0 0.25 0.5 1 1.5 2
Kilometres

Appendix G I

IAQM Construction Dust Assessment Methodology

STEP 1 – SCREENING THE NEED FOR A DETAILED ASSESSMENT

An assessment will normally be required where there are:

- ‘Human receptors’ within 350m of the site boundary; or within 50m of the route(s) used by construction vehicles on the public highway, up to 500m from the site entrance(s); and/or
- ‘Ecological receptors’ within 50m of the site boundary; or within 50m of the route(s) used by construction vehicles on the public highway, up to 500m from the site entrance(s).

Where the need for a more detailed assessment is screened out, it can be concluded that the level of risk is “negligible”.

STEP 2A – DEFINE THE POTENTIAL DUST EMISSION MAGNITUDE

The following are examples of how the potential dust emission magnitude for different activities can be defined. (Note that not all the criteria need to be met for a particular class). Other criteria may be used if justified in the assessment.

Table 2A: Examples of Human Receptor Sensitivity to Construction Phase Impacts

Dust Emission Magnitude	Activity
Large	Demolition >50,000m ³ building demolished, dusty material (e.g. concrete), on-site crushing/screening, demolition >20m above ground level
	Earthworks >10,000m ² site area, dusty soil type (e.g. clay), >10 earth moving vehicles active simultaneously, >8m high bunds formed, >100,000 tonnes material moved
	Construction >100,000m ³ building volume, on site concrete batching, sandblasting
	Trackout >50 HDVs out / day, dusty surface material (e.g. clay), >100m unpaved roads
Medium	Demolition 20,000 - 50,000m ³ building demolished, dusty material (e.g. concrete) 10-20m above ground level
	Earthworks 2,500 - 10,000m ² site area, moderately dusty soil (e.g. silt), 5-10 earth moving vehicles active simultaneously, 4m - 8m high bunds, 20,000 -100,000 tonnes material moved
	Construction 25,000 - 100,000m ³ building volume, dusty material e.g. concrete, on site concrete batching

Dust Emission Magnitude	Activity
	Trackout 10 - 50 HDVs out / day, moderately dusty surface material (e.g. clay), 50 -100m unpaved roads
Small	Demolition <20,000m ³ building demolished, non-dusty material (e.g. metal cladding), <10m above ground level, work during wetter months
	Earthworks <2,500m ² site area, soil with large grain size (e.g. sand), <5 earth moving vehicles active simultaneously, <4m high bunds, <20,000 tonnes material moved, earthworks during wetter months
	Construction <25,000m ³ , non-dusty material (e.g. metal cladding or timber)
	Trackout <10 HDVs out / day, non-dusty soil, < 50m unpaved roads

STEP 2B – DEFINE THE SENSITIVITY OF THE AREA

The tables below present the IAQM assessment methodology to determine the sensitivity of the area to dust soiling, human health and ecological impacts respectively. The IAQM guidance provides guidance to allow the sensitivity of individual receptors to dust soiling and health effects to assist in the assessment of the overall sensitivity of the study area.

Table 2Ba: Sensitivity of the Area to Dust Soiling Effects

Receptor Sensitivity	Number of Receptors	Distance from the Source (m)			
		<20	<50	<100	<350
High	>100	High	High	Medium	Low
	10-100	High	Medium	Low	Low
	1-10	Medium	Low	Low	Low
Medium	>1	Medium	Low	Low	Low
Low	>1	Low	Low	Low	Low

Table 2Bb: Sensitivity of the Area to Human Health Impacts

Receptor Sensitivity	Annual Mean PM ₁₀ Concentration (µg/m ³)	Number of Receptors	Distance from the Source (m)				
			<20	<50	<100	<200	<350
High	>32	>100	High	High	High	Medium	Low
		10-100	High	High	Medium	Low	Low
		1-10	High	Medium	Low	Low	Low
	28-32	>100	High	High	Medium	Low	Low
		10-100	High	Medium	Low	Low	Low
		1-10	High	Medium	Low	Low	Low
	24-28	>100	High	Medium	Low	Low	Low
		10-100	High	Medium	Low	Low	Low
		1-10	Medium	Low	Low	Low	Low
	<24	>100	Medium	Low	Low	Low	Low
		10-100	Low	Low	Low	Low	Low
		1-10	Low	Low	Low	Low	Low
Medium	>32	>10	High	Medium	Low	Low	Low
		1-10	Medium	Low	Low	Low	Low
	28-32	>10	Medium	Low	Low	Low	Low
		1-10	Low	Low	Low	Low	Low
	24-28	>10	Low	Low	Low	Low	Low
		1-10	Low	Low	Low	Low	Low
	<24	>10	Low	Low	Low	Low	Low
		1-10	Low	Low	Low	Low	Low
Low	-	>1	Low	Low	Low	Low	Low

Table 2Bc: Sensitivity of the Area to Ecological Impacts

Receptor Sensitivity	Distance from the Sources (m)	
	<20	<50
High	High	Medium
Medium	Medium	Low
Low	Low	Low

STEP 2C – DEFINE THE RISK OF IMPACTS

The dust emissions magnitude determined at Step 2A should be combined with the sensitivity of the area determined at Step 2B to determine the risk of impacts without mitigation applied. For those cases where the risk category is 'negligible' no mitigation measures beyond those required by legislation will be required.

Table 2C: Risk of Dust Impacts

Sensitivity of surrounding area	Dust Emission Magnitude		
	Large	Medium	Small
Demolition			
High	High Risk	Medium Risk	Medium Risk
Medium	High Risk	Medium Risk	Low Risk
Low	Medium Risk	Low Risk	Negligible
Earthworks and Construction			
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Medium Risk	Low Risk
Low	Low Risk	Low Risk	Negligible
Trackout			
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Low Risk	Negligible
Low	Low Risk	Low Risk	Negligible



STEP 3 –SITE SPECIFIC MITIGATION

Having determined the risk categories for each of the four activities it is possible to determine the site-specific measures to be adopted. These measures will be related to whether the site is considered to be a low, medium or high risk site. The IAQM guidance details the mitigation measures required for high, medium and low risk sites as determined in Step 2C.

STEP 4 – DETERMINE SIGNIFICANT EFFECTS

Once the risk of dust impacts has been determined in Step 2C and the appropriate dust mitigation measures identified in Step 3, the final step is to determine whether there are significant effects arising from the construction phase. For almost all construction activities, the application of effective mitigation should prevent any significant effects occurring to sensitive receptors and therefore the residual effect will normally be negligible.

Appendix G2

Operational Traffic Data



Table G-1 – Traffic Data

Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
1225-1009	Wolverton Road	18200	1.1	37.5	21206	1.0	36.7	21000	1.0	36.9	26530	0.5	33.4	26120	0.5	33.5
1226-1009	Wolverton Road	18165	0.9	36.0	21171	0.9	36.0	20965	0.9	35.9	26416	0.4	31.3	25989	0.4	31.6
1236-1235	H2 Millers Way	8798	1.0	75.7	9421	0.9	73.4	9427	0.9	73.4	26492	0.3	66.2	26891	0.4	65.7
1237-1236	H2 Millers Way	10178	1.4	81.2	10952	1.3	81.6	11027	1.3	81.6	26202	0.5	77.3	26339	0.6	77.3
1238-1237	H2 Millers Way	10102	1.7	81.6	11242	1.5	81.2	11173	1.5	81.2	25498	0.6	76.2	25649	0.7	76.3
1241-1238	H2 Millers Way	10106	1.4	73.1	11346	1.2	70.7	11301	1.2	70.6	25158	0.5	66.2	25324	0.6	66.5
1241-1240	V5 Great Monks Street	24097	0.7	68.9	28540	0.6	67.6	28695	0.6	67.6	32521	0.4	60.2	32984	0.4	60.2
1242-1241	H2 Millers Way	15596	1.2	69.3	19294	0.9	68.2	19885	0.9	68.2	22564	0.7	64.1	22972	0.7	64.1
1243-1242	H2 Millers Way	15171	0.5	81.7	18870	0.4	81.1	19456	0.4	81.0	22127	0.2	78.8	22393	0.3	78.7
1247-1245	V6 Grafton Street	17864	0.9	80.0	18612	0.9	79.5	18438	1.0	79.5	15490	0.4	79.1	15525	0.5	79.2
1248-1245	Mathieson Road	4607	2.2	37.2	4565	2.2	37.1	4590	2.2	37.2	10449	0.9	37.1	10132	1.0	37.1
1252-1251	H3 Monks Way	14283	0.9	70.5	20990	0.7	65.5	20701	0.9	65.3	24638	0.7	60.7	25059	0.7	60.1
1253-1241	V5 Great Monks Street	23420	0.7	77.0	30450	0.6	74.3	30198	0.6	74.3	34477	0.4	70.3	34229	0.5	70.4
1256-1255	H3 Monks Way	27492	2.2	91.3	27826	2.1	91.1	27311	2.6	91.2	36416	1.2	89.0	36418	1.7	89.0
1257-1256	H3 Monks Way	27751	2.1	83.9	27383	2.1	80.2	26707	2.6	79.9	34537	1.2	77.1	34766	1.8	77.1
1258-1257	H3 Monks Way	42619	1.4	86.9	42469	1.4	85.3	42739	1.6	84.5	42220	0.9	75.8	42360	1.4	75.8
1259-1250	V7 Saxon Street	13813	0.5	77.0	16675	0.5	76.1	16876	0.5	76.1	22499	0.3	73.3	23370	0.4	73.0
1260-1259	V7 Saxon Street	11457	0.5	78.8	13504	0.5	78.7	13756	0.5	78.5	18423	0.4	77.6	18691	0.4	77.5
1261-1258	H3 Monks Way	41832	1.4	88.0	42101	1.4	87.5	42351	1.6	87.4	42477	0.9	86.0	42673	1.4	85.6
1261-1260	V7 Saxon Street	15148	0.6	64.9	16841	0.5	64.2	16990	0.5	63.8	21051	0.4	61.2	21376	0.4	61.3
1262-1261	H3 Monks Way	39874	1.4	87.4	39002	1.4	87.0	39672	1.6	86.4	37638	1.0	82.3	37717	1.6	82.1



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
1263-1262	H3 Monks Way	35651	1.5	98.6	36470	1.4	98.4	37486	1.7	98.4	32281	1.1	98.4	31911	1.8	98.4
1264-1250	V8 Malborough Street	8275	1.0	80.9	11180	0.9	80.3	12262	0.8	80.0	21913	0.5	77.2	22640	0.5	76.9
1265-1264	V8 Malborough Street	6930	0.8	84.2	9532	0.7	83.9	10665	0.7	83.7	16704	0.4	82.0	16404	0.5	81.9
1266-1263	H3 Monks Way	35744	1.5	85.5	36445	1.4	85.1	37469	1.7	84.4	32066	1.1	79.0	31681	1.8	78.4
1266-1265	V8 Malborough Street	18022	0.8	74.8	19534	0.8	74.1	20200	0.8	73.7	28778	0.5	67.4	27472	0.5	67.1
1268-1225	V10 Brickhill Street	18630	0.9	69.5	20937	0.8	69.0	21409	0.9	68.9	30820	0.6	65.6	31130	0.6	65.5
1269-1268	V10 Brickhill Street	18223	1.6	77.4	20002	1.4	76.6	19763	1.5	76.8	29994	0.8	70.8	29948	0.9	70.8
1270-1269	V10 Brickhill Street	19970	2.1	72.9	20188	2.1	72.7	17778	2.3	72.9	24181	1.5	71.4	23233	1.5	71.7
1279-1035	The High Street	439	0.4	35.2	470	0.3	32.2	482	0.3	32.4	1450	0.1	26.3	1168	0.1	29.4
1279-1251	V4 Watling Street	24043	1.4	73.8	15326	0.9	58.4	15311	1.2	58.4	19509	0.4	55.1	22753	0.4	54.8
1281-1280	H4 Dansteed Way	21986	0.4	76.8	31299	0.5	71.8	32542	0.4	72.0	41232	0.5	64.0	41001	0.5	64.7
1283-1281	H4 Dansteed Way	24762	0.4	72.6	34252	0.6	70.0	35289	0.5	69.6	46059	0.5	59.3	45443	0.5	59.3
1283-1282	V5 Great Monks Street	6016	1.0	60.9	14029	1.0	60.8	14494	0.9	60.8	17712	0.7	59.2	17548	0.7	59.1
1284-1283	H4 Dansteed Way	24898	0.5	73.8	30381	0.4	71.9	31393	0.5	71.6	40058	0.4	65.3	39497	0.5	65.3
1285-1284	H4 Dansteed Way	24959	0.5	80.7	30381	0.4	78.7	31397	0.5	78.4	39965	0.4	73.0	39427	0.5	73.1
1286-1257	V6 Grafton Street	31512	1.1	83.9	34091	1.2	82.5	35256	1.0	82.3	35651	0.8	78.7	36637	0.8	78.4
1287-1285	H4 Dansteed Way	26951	0.6	73.0	30767	0.5	70.3	31474	0.6	70.1	34370	0.5	60.6	33928	0.6	60.7
1287-1286	V6 Grafton Street	31985	1.1	91.2	35863	1.2	90.8	37115	1.0	90.7	40789	0.7	86.9	41010	0.8	86.8
1288-1287	H4 Dansteed Way	18459	1.0	74.3	19691	0.6	72.6	19888	1.1	72.2	21425	0.7	65.6	21620	0.7	65.6
1289-1261	V7 Saxon Street	14154	0.8	73.1	17487	0.6	72.3	18093	0.6	72.0	23012	0.6	67.9	22597	0.6	67.5
1290-1288	H4 Dansteed Way	22587	0.9	75.1	24567	0.6	74.7	24712	0.9	74.6	32335	0.6	70.0	31998	0.6	70.8
1290-1289	V7 Saxon Street	12727	0.5	77.7	16681	0.4	76.9	17396	0.3	76.8	22326	0.4	73.5	21802	0.4	74.4
1291-1290	H4 Dansteed Way	20676	1.0	75.0	23889	0.6	74.2	24143	1.0	73.7	34915	0.5	68.5	34372	0.6	68.8



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
1292-1291	H4 Dansteed Way	18458	1.1	80.2	21710	0.7	79.2	21796	1.1	79.1	30204	0.5	75.3	29503	0.6	75.3
1293-1266	V8 Malborough Street	25722	1.0	87.6	27743	0.8	86.8	27967	0.9	86.4	33436	0.3	80.0	33279	0.8	79.9
1294-1292	H4 Dansteed Way	18527	1.3	74.5	21624	0.8	73.4	21693	1.2	73.4	27574	0.6	66.3	26403	0.7	65.8
1294-1293	V8 Malborough Street	23339	0.9	88.1	25741	0.7	87.4	26479	0.8	87.2	32962	0.3	84.2	33127	0.7	83.0
1295-1294	H4 Dansteed Way	20872	1.3	73.6	23232	1.4	72.8	23991	1.6	71.7	26104	1.2	66.4	26394	0.8	64.9
1297-1295	H4 Dansteed Way	21038	1.3	72.4	23179	1.4	71.5	23968	1.6	71.4	26685	1.2	68.0	28771	0.7	67.5
1297-1296	V9 Overstreet	17507	2.0	75.0	21181	1.7	74.2	23901	1.7	73.0	25602	1.7	70.8	24975	1.2	67.1
1298-1297	H4 Dansteed Way	23124	1.5	70.7	23688	1.5	70.3	25908	1.5	68.7	32991	0.9	65.6	35859	0.9	63.0
1300-1298	H4 Dansteed Way	22965	1.5	77.6	24199	1.5	77.2	27117	1.5	76.6	34299	0.9	70.3	38269	0.9	69.5
1300-1299	V10 Brickhill Street	23364	1.7	71.2	22684	1.8	71.0	21215	2.0	71.7	23770	0.8	65.9	22153	1.2	65.8
1301-1300	H4 Dansteed Way	17954	1.5	77.4	21973	1.3	77.0	17547	2.1	75.5	24625	1.2	74.5	23655	1.7	74.1
1302-1301	H4 Dansteed Way	12082	1.8	76.2	15436	1.6	74.7	8683	2.9	79.8	13492	1.6	65.9	8728	2.7	80.2
1303-1287	V6 Grafton Street	24328	1.4	88.3	32049	1.0	86.0	30910	1.1	85.9	32480	0.7	74.3	32704	0.7	73.9
1306-1294	V8 Malborough Street	31416	1.1	87.4	35593	1.0	86.6	37408	1.0	86.5	41616	0.6	76.8	43989	0.7	74.8
1308-1277	V3 Fulmer Street	21848	1.3	73.4	22271	1.0	73.4	24707	0.9	72.9	26560	0.6	64.2	27427	0.6	64.2
1308-1307	H5 Portway	23115	1.2	72.1	24738	0.8	70.5	25172	0.9	70.5	33720	0.5	61.9	32784	0.5	61.7
1309-1308	H5 Portway	15602	1.4	75.8	25094	0.9	73.4	23582	1.0	73.4	25052	0.7	66.2	24784	0.7	66.5
1310-1309	H5 Portway	18163	1.2	80.1	27453	0.9	77.4	25995	1.0	77.8	27602	0.6	74.6	27325	0.6	74.9
1311-1280	V4 Watling Street	16508	1.3	71.2	21143	0.8	67.5	19948	0.9	67.6	30712	0.7	63.7	31453	0.7	63.6
1312-1310	H5 Portway	20925	1.1	74.5	28157	0.9	72.4	26941	1.0	72.6	29732	0.6	67.3	29548	0.6	67.4
1312-1311	V4 Watling Street	12682	1.4	77.6	17767	0.8	74.4	16356	0.9	74.9	24606	0.7	71.0	25065	0.7	70.4
1313-1312	H5 Portway	22724	1.6	70.8	27941	1.4	69.4	28001	1.4	69.6	32850	1.0	63.5	33086	1.0	63.4
1317-1316	H5 Portway	21804	1.8	39.6	30514	1.3	38.1	30842	1.4	38.0	34789	1.1	35.7	35004	1.1	35.8



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1319-1290	V7 Saxon Street	19728	0.2	82.7	19428	0.3	79.7	21288	0.2	79.6	20110	0.2	71.3	19348	0.2	70.1
1319-1318	H5 Portway	29750	0.8	76.4	37044	0.7	75.2	37489	0.7	75.3	42998	0.5	66.6	43551	0.5	66.5
1320-1319	H5 Portway	25505	0.8	76.8	26573	0.8	73.8	25643	0.8	73.7	27937	0.6	66.7	28807	0.5	66.9
1323-1297	V9 Overstreet	18018	2.8	76.3	23776	2.2	74.7	24063	2.1	74.4	22899	1.9	72.0	23446	1.8	69.5
1324-1323	V9 Overstreet	22695	2.3	70.2	27313	2.0	68.3	26997	1.9	66.8	27196	1.6	61.2	27500	1.5	60.9
1325-1300	V10 Brickhill Street	26810	1.3	64.5	24560	1.5	64.2	24223	1.7	64.1	31549	0.4	61.8	31601	0.7	61.0
1341-1340	Secklow Gate	2220	0.6	23.0	4108	0.3	22.1	4236	0.3	22.1	5334	0.3	19.8	5325	0.4	19.7
1346-1345	V2 Tattenhoe Street	23259	1.3	72.8	28660	1.1	71.2	28911	1.1	70.8	36067	0.7	63.4	36455	0.7	63.0
1347-1346	H6 Childs Way	19628	1.2	66.0	20309	1.1	64.1	21161	1.1	64.4	22777	0.4	58.1	22865	0.5	58.0
1348-1308	V3 Fulmer Street	12163	0.8	75.7	16663	0.6	74.6	16944	0.7	74.2	26310	0.3	66.2	26497	0.2	66.4
1350-1347	H6 Childs Way	19135	1.0	76.8	20199	0.9	75.5	19924	0.9	75.8	25635	0.2	71.7	25865	0.3	73.8
1353-1351	H6 Childs Way	34897	1.0	80.3	35560	0.8	78.2	35192	0.9	77.9	31853	0.5	71.0	31736	0.5	71.0
1353-1352	V4 Watling Street	14885	0.6	74.7	13608	0.5	72.7	13545	0.5	72.5	16676	0.3	66.5	16390	0.3	66.4
1354-1353	H6 Childs Way	40636	0.7	86.8	42093	0.6	86.7	42030	0.7	86.1	51956	0.3	84.4	52353	0.4	84.5
1356-1355	H6 Childs Way	43863	0.7	96.1	45554	0.7	95.3	45979	0.7	95.2	57879	0.3	86.6	58287	0.4	86.8
1358-1068	V6 Grafton Street	22676	1.3	81.3	24893	1.1	78.6	24559	1.1	78.0	33760	0.8	74.7	33209	0.9	75.4
1364-1362	H6 Childs Way	24727	0.8	76.1	26947	0.7	72.4	27062	0.8	72.2	30051	0.5	64.9	30015	0.6	64.7
1365-1364	H6 Childs Way	20531	1.1	75.3	25237	0.9	72.3	24295	1.0	72.1	32262	0.7	67.4	32295	0.7	67.5
1372-1371	V10 Brickhill Street	20089	0.6	63.5	22984	0.7	62.8	21591	0.7	62.8	25315	0.4	57.3	23371	0.4	58.2
1379-1378	H7 Chaffron Way	8813	2.0	79.1	10561	1.7	78.0	10185	1.8	78.1	17161	1.1	76.4	17357	1.0	76.2
1381-1346	V2 Tattenhoe Street	12164	1.6	62.2	14833	1.3	60.8	16115	1.2	61.0	18167	1.0	54.6	18757	1.0	54.3
1382-1381	V2 Tattenhoe Street	9974	1.6	78.2	12066	1.4	77.3	12961	1.3	77.5	13256	1.2	73.1	13686	1.2	73.0
1383-1380	H7 Chaffron Way	17476	1.9	72.2	18556	1.8	72.1	18176	1.8	72.1	29174	1.1	66.5	29191	1.1	66.8



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1383-1382	V2 Tattenhoe Street	7490	2.0	75.6	9435	1.7	76.2	10302	1.5	75.4	9528	1.5	68.8	9758	1.5	68.5
1384-1383	H7 Chaffron Way	19472	0.8	73.5	22468	0.7	72.3	21363	0.8	72.6	33518	0.5	65.1	32997	0.5	65.4
1386-1350	V3 Fulmer Street	22488	0.8	66.8	23663	0.7	66.3	23921	0.7	65.6	30086	0.5	59.5	30327	0.5	58.2
1387-1384	H7 Chaffron Way	15868	0.9	80.3	17974	0.8	79.8	16452	0.9	80.0	25239	0.6	72.7	24634	0.6	73.1
1387-1386	V3 Fulmer Street	19827	1.1	69.0	21577	1.0	68.0	19827	1.2	68.1	27457	0.7	59.8	27548	0.7	60.9
1388-1387	H7 Chaffron Way	17419	0.7	72.2	18923	0.6	71.2	19131	0.6	71.3	32081	0.4	65.6	31737	0.4	65.6
1389-1388	H7 Chaffron Way	13478	0.3	83.2	14842	0.3	82.6	15018	0.3	82.5	24331	0.2	74.8	23794	0.2	74.4
1390-1353	V4 Watling Street	18024	0.8	69.0	18469	0.6	65.8	20145	0.6	66.4	17646	0.2	57.7	17661	0.2	57.9
1391-1390	V4 Watling Street	18024	0.8	81.8	18469	0.6	81.8	20145	0.6	81.5	17646	0.2	82.2	17661	0.2	81.9
1392-1389	H7 Chaffron Way	19171	0.3	69.3	19941	0.3	69.0	19999	0.3	69.0	31063	0.2	63.5	30517	0.2	63.0
1392-1391	V4 Watling Street	18975	0.9	70.9	19831	0.7	71.1	21257	0.6	70.6	22348	0.3	68.3	22367	0.3	67.8
1393-1392	H7 Chaffron Way	27253	0.4	72.2	27206	0.4	71.1	25210	0.4	70.5	18145	0.2	70.0	18292	0.2	69.5
1394-1068	V6 Grafton Street	21861	1.3	95.3	24029	1.1	95.1	23683	1.2	95.3	33911	0.8	94.6	33270	0.8	94.5
1395-1393	H7 Chaffron Way	30405	0.5	72.8	30638	0.5	72.3	28827	0.5	72.6	21397	0.3	62.7	21653	0.3	62.7
1400-1365	V8 Malborough Street	35287	1.1	85.3	35315	1.2	82.1	35920	1.2	82.3	29780	0.8	75.9	29470	1.0	76.1
1401-1399	H7 Chaffron Way	29559	1.0	72.3	28706	0.9	70.7	28365	0.9	70.4	32826	0.5	65.9	32836	0.5	65.9
1401-1400	V8 Malborough Street	36021	1.5	86.3	36645	1.5	83.9	36931	1.5	83.2	33356	1.0	76.2	33066	1.2	75.8
1403-1401	H7 Chaffron Way	23712	1.0	74.8	23908	0.8	71.8	24687	0.9	71.3	30570	0.5	66.2	30619	0.4	65.7
1406-1405	H7 Chaffron Way	19978	0.3	77.2	22286	0.5	75.9	22483	0.6	75.8	34536	0.5	72.2	34762	0.4	72.2



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1411-1378	V1 Snelshall Street	16171	0.9	76.0	21130	1.0	73.6	21664	1.0	73.7	30975	0.6	70.9	30645	0.6	70.8
1412-1411	V1 Snelshall Street	16790	0.9	81.7	19894	1.1	80.4	20424	1.1	80.3	26028	0.7	77.3	25764	0.7	77.4
1413-1412	V1 Snelshall Street	15698	0.9	74.7	19051	1.1	73.5	19529	1.1	73.1	23235	0.8	66.8	23073	0.8	66.7
1416-1383	V2 Tattenhoe Street	18181	0.2	78.3	21981	0.2	77.3	21899	0.2	77.4	34459	0.1	70.4	34581	0.1	70.7
1418-1417	H8 Standing Way	32247	3.4	89.8	36744	2.6	89.4	36392	2.6	89.5	33223	1.0	88.2	32734	1.0	88.1
1419-1387	V3 Fulmer Street	11662	0.3	52.2	12354	0.3	51.8	12427	0.4	52.0	22371	0.1	49.1	22653	0.1	49.3
1421-1418	H8 Standing Way	32814	3.4	84.5	37731	2.6	83.1	37051	2.5	83.2	34314	1.0	76.2	34025	1.0	75.9
1421-1420	V3 Fulmer Street	12403	1.1	73.2	12901	1.1	71.9	13454	1.0	71.8	18565	0.6	63.7	18689	0.6	63.7
1422-1421	H8 Standing Way	49416	2.4	88.2	49517	2.1	87.9	49106	2.0	88.1	55246	0.7	81.9	55401	0.7	80.0
1424-1423	H8 Standing Way	46748	2.6	98.6	47190	2.2	98.4	46772	2.2	98.5	47082	0.8	97.8	47440	0.8	97.7
1426-1424	H8 Standing Way	50080	2.5	80.1	49857	2.3	79.3	49250	2.2	79.2	47287	0.9	76.1	47733	0.9	76.3
1426-1425	V4 Watling Street	17347	0.8	73.2	17371	0.7	73.3	17689	0.6	73.4	15055	0.5	67.2	15018	0.5	67.3
1427-1395	V6 Grafton Street	22697	1.7	89.7	24933	1.4	88.5	24782	1.4	88.6	39945	0.9	85.7	39245	0.9	85.6
1430-1429	H8 Standing Way	28557	4.4	78.0	27736	4.0	76.5	27415	3.9	76.5	24874	2.0	73.6	25000	2.0	73.5
1432-1431	V7 Saxon Street	12861	2.8	49.0	16401	2.3	49.0	16334	2.4	49.0	23667	1.3	48.7	23165	1.4	48.7
1433-1430	H8 Standing Way	29676	4.4	87.8	29381	4.0	86.9	29116	3.9	86.9	28857	2.0	75.5	28935	2.0	74.7



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1434-1433	H8 Standing Way	27779	5.8	76.4	28706	5.1	75.8	28464	5.1	75.8	32826	2.6	70.1	34531	2.6	69.6
1435-1401	V8 Malborough Street	24868	1.6	86.8	30699	1.4	85.2	30679	1.4	85.0	32301	1.1	81.8	32330	1.1	81.9
1437-1434	H8 Standing Way	29536	5.5	76.6	31697	4.7	76.2	31301	4.7	76.2	35318	2.5	71.8	36524	2.5	72.7
1437-1436	V8 Malborough Street	25036	1.8	88.0	30515	1.6	87.2	30486	1.5	87.2	33737	1.1	78.8	33793	1.2	78.7
1442-1441	H8 Standing Way	35307	4.3	86.7	39559	3.3	85.5	39983	3.4	85.6	47436	1.8	80.4	47899	1.8	80.9
1443-1441	H8 Standing Way	33474	4.5	97.1	37662	3.5	96.9	38170	3.6	96.9	44550	1.9	96.0	44873	1.9	96.1
1452-1451	B4034 Buckingham Road	5926	1.0	44.6	7620	0.9	44.6	7694	0.9	44.6	16765	0.3	44.4	16672	0.4	44.4
1453-1417	Tattenhoe Lane	4541	0.7	33.3	5283	0.6	33.1	5270	0.6	33.1	15545	0.2	31.2	15983	0.2	31.2
1454-1453	Tattenhoe Lane	1868	1.8	32.8	2639	1.3	32.9	2635	1.3	32.9	10917	0.3	32.0	11516	0.3	32.0
1455-1454	Whaddon Way	911	13.0	35.7	1470	8.0	35.7	1468	7.9	35.7	11729	1.0	34.4	12655	1.0	33.9
1456-1421	Shenley Road	11946	1.0	32.2	11778	1.0	32.1	11981	1.0	32.1	10963	0.7	28.2	10650	0.7	28.2
1457-1456	Shenley Road	7006	1.4	30.0	7181	1.3	29.9	7371	1.3	30.0	5804	1.0	29.4	5283	1.1	29.3
1458-1457	Shenley Road	7805	0.9	33.9	8188	0.9	33.9	8381	0.9	33.9	9685	0.6	33.2	9150	0.6	33.2
1459-1458	Whaddon Way	4946	3.8	26.8	5627	3.4	26.8	5838	3.2	26.8	13297	1.3	25.4	13607	1.3	25.4
1460-1459	Whaddon Way	1690	6.6	34.0	2025	5.5	34.1	2058	5.4	34.1	7289	1.4	34.0	7260	1.4	34.0
1462-1424	Denbigh Hall Drive	4520	1.4	40.1	4135	1.4	40.0	4069	1.5	39.9	8782	0.5	38.1	9002	0.5	38.0



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1463-1461	Whaddon Way	7193	1.5	28.5	7849	1.4	28.1	7796	1.4	28.0	14319	0.7	26.5	14553	0.6	26.5
1463-1462	Denbigh Hall Drive	4176	1.4	29.3	3812	1.5	29.3	3747	1.5	29.5	8618	0.5	30.3	8830	0.5	30.2
1464-1426	V4 Watling Street	16930	1.0	68.6	17830	0.9	67.2	18526	0.9	67.3	23489	0.6	64.1	22740	0.6	64.0
1464-1463	Whaddon Way	3141	1.8	30.7	4151	1.3	30.6	4163	1.3	30.5	5567	0.9	27.8	5585	0.9	27.8
1465-1429	V6 Grafton Street	28414	1.5	80.8	29183	1.4	79.6	28299	1.4	79.4	26690	1.2	71.2	27224	1.2	71.6
1467-1433	V7 Saxon Street	13557	1.9	45.8	17403	1.7	44.8	17473	1.7	44.9	23642	1.0	41.9	22331	1.1	41.9
1468-1467	V7 Saxon Street	14969	2.0	45.0	17926	1.9	44.5	17756	1.9	44.6	26839	1.1	39.3	25950	1.1	39.2
1469-1468	H9 Groveway	27458	1.6	88.7	28734	1.4	85.9	28634	1.4	85.9	22872	1.3	77.1	21520	1.3	76.6
1471-1469	H9 Groveway	27707	1.6	83.1	28931	1.4	83.6	28826	1.4	83.6	22711	1.3	82.7	21471	1.3	82.8
1471-1470	V8 Marlborough Street	20126	1.9	88.2	24538	1.7	86.7	24760	1.6	86.4	34407	1.0	84.9	33783	1.0	85.4
1472-1471	H9 Groveway	23410	1.7	89.5	24174	1.5	88.6	25236	1.4	88.8	31789	1.1	85.6	32214	1.0	85.4
1473-1439	Newport Road	812	0.6	34.6	2054	2.2	35.5	2318	1.8	35.0	11672	1.3	34.5	12643	1.2	34.1
1474-1473	Newport Road	830	0.2	38.7	2084	2.1	38.0	2350	1.7	37.9	11844	1.2	34.8	12829	1.2	34.7
1477-1475	H9 Groveway	26437	2.2	71.4	26326	1.6	70.4	26846	1.7	70.3	36120	1.0	65.9	36210	0.9	65.7
1477-1476	V10 Brickhill Street	17088	0.9	64.9	21033	1.0	63.9	20692	1.0	64.2	12858	0.5	59.1	12730	0.5	59.2
1480-1478	H9 Groveway	19043	4.6	70.1	19934	3.9	68.6	19971	4.1	68.4	15944	4.1	66.7	15955	3.8	66.7



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1480-1479	V11 Tongwell Street	25491	6.0	88.4	26638	4.6	82.5	26443	5.2	82.3	27576	2.7	77.1	27336	3.0	76.8
1481-1480	H9 Groveway	20991	4.9	70.0	23521	4.3	67.9	23710	4.3	67.9	26198	3.4	64.2	26521	3.2	64.1
1488-1459	Rickley Lane	5761	1.3	33.3	6574	1.2	33.2	6817	1.1	33.2	11707	0.6	32.8	11662	0.6	32.8
1502-1001	V6 Grafton Street	7675	2.4	53.9	9292	2.7	53.3	9202	2.7	53.3	17082	1.9	47.3	16185	2.0	47.6
1503-1464	V4 Watling Street	13184	0.8	82.7	13034	0.8	82.6	13751	0.7	82.5	18055	0.4	80.2	17159	0.4	80.1
1504-1001	V6 Grafton Street	6673	2.5	51.6	8042	2.8	51.3	7963	2.8	51.3	14508	2.1	50.4	13674	2.2	50.4
1504-1503	V4 Watling Street	10958	1.4	72.3	11591	1.3	71.5	12365	1.2	71.5	19039	0.7	68.6	18077	0.7	68.8
1506-1003	H10 Bletcham Way	11557	1.6	51.8	12978	1.8	51.3	13471	1.7	51.2	19618	1.5	47.2	18055	1.7	47.1
1506-1501	V7 Saxon Street	36603	2.3	41.3	40152	2.2	40.9	40248	2.2	40.9	47076	1.6	39.3	46726	1.6	39.4
1508-1507	Bond Avenue	4717	4.7	38.8	8462	2.8	38.3	8332	2.9	38.3	18316	1.4	38.2	18643	1.4	38.2
1510-1506	H10 Bletcham Way	7825	3.8	59.3	9213	3.6	59.0	9662	3.6	58.9	14895	1.9	52.9	14932	2.0	53.0
1513-1477	V10 Brickhill Street	33942	1.3	65.7	35275	1.4	63.4	34046	1.4	63.4	38965	0.8	57.1	38315	0.7	57.3
1515-1514	V10 Brickhill Street	20065	1.5	72.7	19593	1.8	70.0	19351	1.8	70.1	19147	1.1	66.7	18571	1.0	66.8
1516-1515	H10 Bletcham Way	32580	3.9	87.0	38002	3.0	83.2	38123	3.2	83.2	43126	1.5	73.6	42704	1.7	73.6
1518-1480	V11 Tongwell Street	30750	5.1	88.3	35479	3.8	86.8	35577	4.1	86.7	43402	2.0	83.8	43427	2.2	83.5
1518-1517	V11 Tongwell Street	26283	5.4	88.9	31749	3.8	88.8	31852	4.2	88.8	39925	1.9	82.8	39961	2.1	82.6



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1519-1500	Princes Way	7651	1.6	32.8	8017	1.6	32.4	7939	1.6	32.4	15048	0.9	29.8	14944	0.9	29.7
1522-1521	Aylesbury Street	4385	2.6	33.8	7127	1.7	33.7	7292	1.7	33.7	16407	0.9	33.6	15732	0.9	33.5
1524-1511	Simpson Road	2606	2.7	39.8	4252	1.8	39.8	4575	1.7	39.8	11789	1.2	39.8	12083	1.2	39.8
1525-1522	Aylesbury Street	5430	2.1	35.4	8157	1.5	35.2	8323	1.5	35.1	17604	0.8	32.4	16892	0.9	32.3
1527-1515	V10 Brickhill Street	31544	4.3	62.8	23204	3.0	63.8	22837	3.4	63.8	17022	1.8	63.3	17713	2.4	63.1
1529-1528	V10 Brickhill Road	19999	5.3	79.1	20994	2.9	79.0	21191	3.0	79.0	32372	0.6	75.0	32359	0.9	75.0
1546-1255	H3 Monks Way	27963	1.9	86.0	28308	1.8	86.0	27861	2.3	86.0	39228	1.0	87.1	39120	1.5	87.1
1546-1545	H3 Monks Way	14054	1.8	60.0	14132	1.6	60.0	13946	1.8	60.0	16497	0.9	60.0	16454	1.2	60.0
1547-1544	A5	23628	2.1	97.3	28003	1.8	95.8	28202	1.8	95.6	33108	1.6	90.3	33109	1.6	90.3
1548-1254	V5 Great Monks Street	5774	1.7	51.5	10281	1.7	51.0	10612	1.4	51.0	11757	1.4	49.0	11953	1.4	49.0
1548-1282	V5 Great Monks Street	9788	1.7	65.7	17547	1.4	65.9	17912	1.3	65.9	23582	1.0	65.2	23709	1.0	65.2
1552-1550	A5	17569	1.8	98.5	21487	1.6	97.9	21577	1.6	97.9	28494	1.2	95.0	28372	1.2	94.9
1553-1466	H9 Groveway	10670	2.1	60.0	12017	1.9	60.0	12144	2.0	60.0	14994	0.9	60.0	14738	0.9	60.0
1555-1502	V6 Grafton Street	8391	2.5	63.0	9956	2.7	62.9	9880	2.7	62.9	18532	1.9	62.5	17426	2.0	62.5
1555-1554	V6 Grafton Street	1665	3.8	64.0	2075	3.2	64.0	2105	3.1	64.0	5853	2.4	64.0	5529	2.5	64.0
1556-1466	Redmoor Roundabout	6307	2.6	19.2	7802	2.3	18.9	7998	2.2	18.9	15859	1.3	18.2	14724	1.3	18.2



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1558-1512	H10 Bletcham Way	23015	1.7	45.2	25691	2.5	45.0	26043	2.7	45.0	28919	1.5	44.5	28912	1.6	44.5
1558-1515	H10 Bletcham Way	31314	1.4	86.3	38665	1.8	84.7	38969	2.0	84.2	45441	1.3	77.2	45251	1.2	77.8
1558-1557	A5	5276	0.6	68.3	5736	0.4	64.6	5746	0.4	64.3	10168	0.5	49.3	10056	0.5	49.4
1559-1557	A5	15574	2.2	98.7	22401	1.7	97.5	22338	1.7	97.5	28339	1.2	96.2	27665	1.2	96.3
1559-1558	A5	475	7.7	72.1	5875	0.8	71.5	5669	0.9	71.5	3954	2.3	71.1	3967	1.2	71.1
1566-1565	A509 London Road	12015	4.6	28.7	11189	3.9	26.7	10716	7.2	26.7	12791	3.2	23.2	15192	7.4	23.3
1568-1426	H8 Standing Way	43765	3.0	72.5	43465	2.6	71.1	43616	2.6	70.5	45313	1.0	72.8	44961	1.1	72.8
1568-1429	H8 Standing Way	44068	3.0	80.7	43611	2.6	80.2	43727	2.6	80.3	44206	1.1	76.9	43997	1.1	77.0
1569-1362	V7 Saxon Street	23121	1.9	86.9	25554	1.7	83.2	25909	1.7	83.2	31496	1.0	79.8	31108	1.1	79.5
1569-1399	H7 Chaffron Way	31136	0.8	69.8	29992	0.7	67.8	30137	0.8	67.7	31851	0.4	61.5	31556	0.4	61.9
1569-1431	V7 Saxon Street	10437	3.5	45.6	13522	2.8	44.2	13402	2.9	44.1	16064	1.9	41.4	15753	1.9	41.6
1572-1571	A5 Watling Street Roundabout	20698	2.0	29.5	23388	2.0	28.5	23752	2.0	28.6	27284	1.4	25.1	27421	1.5	25.1
1573-1437	H8 Standing Way	39240	3.9	67.3	42505	3.3	65.0	42872	3.2	64.9	43405	1.9	61.5	43903	1.9	60.9
1578-1405	V10 Brickhill Street	30882	1.6	69.6	32326	1.5	67.9	32483	1.3	67.6	31149	0.7	66.4	30752	0.8	66.4
1578-1442	V10 Brickhill Street	31668	1.6	71.5	32873	1.5	67.4	33506	1.3	67.5	30246	0.8	61.1	30011	0.8	61.1
1579-1439	H8 Standing Way	34730	3.8	98.1	36762	3.2	98.1	36982	3.1	98.1	37553	1.7	97.6	37428	1.7	97.7



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1579-1573	H8 Standing Way	34730	3.8	87.9	36762	3.2	84.1	36982	3.1	83.7	37553	1.7	77.0	37428	1.7	76.5
1587-1586	Wolverton Road	2788	3.7	39.1	4268	2.7	39.2	4332	2.7	39.2	9158	1.2	39.1	9050	1.2	39.1
1588-1582	Queen Eleanor Street	15351	2.5	60.5	20089	1.7	60.4	20285	1.9	60.4	21946	1.0	59.4	21961	1.0	59.3
1588-1587	Wolverton Road	4625	2.5	51.4	6513	2.0	50.6	6589	2.0	50.4	11437	1.0	49.8	11275	1.0	49.7
1590-1588	Queen Eleanor Street	7511	3.3	63.4	9113	1.7	63.3	9118	2.0	63.2	16130	0.6	58.3	16793	0.5	58.3
1591-1230	Queen Eleanor Street	12368	3.1	58.1	16680	1.8	57.7	16762	1.9	57.6	26410	1.1	56.0	26798	1.1	55.9
1591-1589	London Road	5889	2.4	37.8	8654	1.7	37.8	8763	1.7	37.8	13628	1.4	35.7	13648	1.5	35.5
1591-1590	Queen Eleanor Street	6616	3.6	64.6	8175	1.8	64.5	8149	2.2	64.5	15100	0.6	64.2	15710	0.6	64.2
1592-1588	Stratford Road	14071	1.8	56.5	19563	1.5	55.7	19916	1.6	55.7	29428	0.8	53.7	29316	0.8	53.9
1593-1234	V5 Great Monks Street	11284	1.4	74.7	16699	1.1	72.9	16910	1.1	72.6	15902	0.9	65.4	15918	0.9	65.3
1593-1592	Stratford Road	13000	1.8	60.0	18457	1.5	60.0	18813	1.6	60.0	27088	0.8	56.8	26867	0.8	56.7
1594-1593	Stratford Road	4127	3.8	38.1	5318	3.1	37.6	5297	3.1	37.6	13440	1.4	33.4	13051	1.5	33.4
1597-1593	Old Wolverton Road	6811	1.2	38.0	11215	1.1	37.8	11641	1.2	37.8	14142	0.5	34.1	14686	0.4	34.4
1599-1597	Old Wolverton Road	7061	1.1	46.7	10542	1.1	45.9	10802	1.2	45.9	11047	0.5	42.0	11576	0.4	42.0
1601-1307	H5 Portway	20132	1.5	74.1	21822	1.1	73.6	22004	1.1	73.5	26969	0.7	68.5	26558	0.7	68.9
1601-1344	V2 Tattenhoe Street	19370	1.3	76.7	25566	1.1	75.3	25842	1.0	75.4	38954	0.6	66.6	39592	0.6	66.9



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1608-1513	V10 Brickhill Street	14434	1.8	81.6	15276	2.0	81.1	14735	2.0	81.1	12633	1.2	81.6	12461	1.0	81.1
1608-1514	V10 Brickhill Street	14434	1.8	82.6	15276	2.0	81.8	14735	2.0	82.0	12633	1.2	82.8	12461	1.0	82.8
1609-1572	A5 Watling Street Roundabout	21419	3.0	29.6	24930	2.5	28.5	25314	2.5	28.3	29603	1.8	27.3	29734	1.9	27.1
1612-1571	A5 Watling Street Roundabout	20014	3.0	30.0	23274	3.2	29.8	23395	3.2	29.7	24050	2.8	26.9	24325	2.8	26.6
1613-1609	A5 Watling Street Roundabout	8609	3.8	28.2	9600	2.8	27.8	9563	2.9	27.8	10832	1.7	27.3	10779	1.7	27.3
1613-1612	A5 Watling Street Roundabout	22300	3.3	29.2	23227	3.8	29.1	23223	3.9	29.1	22587	3.1	27.0	22805	3.4	26.9
1618-1468	H9 Groveway	19173	1.9	78.5	23310	1.7	78.3	23655	1.7	78.3	31508	0.9	73.4	30916	0.9	73.4
1618-1553	H9 Groveway	19188	1.9	98.6	23599	1.7	98.5	23930	1.7	98.5	31898	0.9	98.2	31295	0.9	98.2
1619-1243	McConnell Drive	11486	0.3	81.3	12464	0.4	80.7	12107	0.4	80.7	19080	0.2	78.5	18666	0.3	78.5
1620-1525	V4 Watling Street	9143	1.6	48.6	14105	1.0	47.9	14412	1.0	47.9	16254	1.0	42.8	16567	1.0	43.1
1622-1521	Vicarage Road	4672	5.3	31.6	5662	5.2	31.5	5599	5.3	31.5	8374	2.5	31.2	8117	2.7	31.2
1623-1470	V8 Marlborough Street	19405	1.9	97.7	21530	1.8	97.6	21537	1.7	97.6	29540	1.0	97.1	28833	1.1	97.1
1623-1573	V8 Marlborough Street	24430	1.9	83.9	27390	1.8	82.4	27570	1.7	82.2	36485	1.1	75.8	35945	1.1	76.1
1627-1325	V10 Brickhill Street	25235	1.4	80.6	24075	1.5	80.5	19928	2.0	80.9	28192	0.3	73.3	25021	0.8	72.0
1627-1326	V10 Brickhill Street	25832	1.5	66.5	24601	1.6	66.0	19663	2.2	65.2	26145	0.4	61.2	22252	0.9	60.4



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1629-1565	A509 London Road	21727	5.1	47.2	20078	4.2	47.3	19815	8.8	50.0	21248	3.9	47.6	25488	8.5	50.0
1633-1318	Witan Gate	18084	0.5	27.0	18465	0.6	26.7	18594	0.6	26.7	20635	0.4	26.0	21045	0.4	26.0
1633-1336	Witan Gate	12199	0.5	33.1	12525	0.5	32.3	12736	0.5	32.3	18207	0.4	30.9	18147	0.4	31.1
1634-1319	V7 Saxon Street	12632	0.6	35.0	13774	0.6	34.7	13815	0.6	34.7	17394	0.4	33.6	17194	0.4	33.6
1634-1338	V7 Saxon Street	10850	0.5	31.5	11889	0.5	30.8	11987	0.5	30.7	14316	0.5	29.1	14004	0.4	29.1
1635-1320	Secklow Gate	11959	0.9	49.1	14778	0.6	49.1	14584	0.7	49.2	15303	0.5	49.5	15108	0.5	47.1
1635-1340	Secklow Gate	10273	1.1	32.9	12421	0.7	32.6	12316	0.7	32.5	11881	0.6	30.4	11723	0.6	30.3
1636-1334	Silbury Boulevard	3964	1.1	30.8	3951	1.4	30.8	4450	1.2	31.5	7237	0.7	28.7	8090	0.7	29.8
1636-1336	Silbury Boulevard	5889	0.4	33.0	6455	0.5	33.6	6629	0.4	33.6	8793	0.3	32.0	8829	0.3	32.0
1637-1336	Silbury Boulevard	3766	0.6	33.8	5914	0.5	34.4	5965	0.4	34.4	9123	0.3	31.9	9101	0.3	31.8
1637-1338	Silbury Boulevard	2713	0.6	31.2	4737	0.5	30.3	4861	0.5	30.2	8754	0.4	29.6	8728	0.4	29.8
1638-1338	Silbury Boulevard	3681	0.8	39.9	6977	0.5	41.8	7574	0.5	41.7	11963	0.4	37.4	12392	0.4	37.6
1638-1340	Silbury Boulevard	8035	0.9	37.7	11263	0.7	35.9	11364	0.7	35.9	14669	0.7	34.7	14797	0.7	34.6
1639-1340	Silbury Boulevard	4945	1.6	31.4	8829	1.2	33.2	9154	1.1	33.3	11959	1.1	32.9	12408	1.0	33.0
1639-1570	Silbury Boulevard	5373	1.9	31.7	9701	1.3	30.8	10523	1.2	30.8	15165	1.0	30.2	16132	1.0	30.3
1641-1334	V6 Grafton Gate	24840	0.9	33.1	28851	0.7	32.2	28670	1.1	32.2	31152	0.5	30.8	30267	0.9	30.3



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1641-1335	V6 Grafton Gate	22361	1.2	34.4	27054	0.9	34.4	27257	1.3	34.3	31738	0.6	31.6	31642	1.0	31.7
1642-1336	Witan Gate	5223	0.6	31.9	6954	0.4	31.5	7066	0.5	31.3	10879	0.2	29.5	10841	0.2	29.4
1642-1337	Witan Gate	5642	0.7	25.2	7548	0.5	25.4	7668	0.6	25.6	11962	0.3	25.9	11866	0.3	25.9
1643-1338	V7 Saxon Street	10893	0.6	33.9	12786	0.5	33.4	12839	0.5	33.4	14280	0.3	31.5	14169	0.4	31.5
1643-1339	V7 Saxon Street	9210	0.6	30.8	10694	0.6	30.7	10819	0.5	30.6	12769	0.3	30.6	12829	0.4	29.8
1647-1335	V6 Grafton Gate	24070	1.5	33.7	22936	1.4	33.9	23224	1.4	33.9	22297	1.1	32.7	22006	1.2	32.8
1647-1357	V6 Grafton Gate	22032	1.6	35.2	19731	1.6	35.0	20010	1.6	35.0	18555	1.3	35.6	18326	1.3	35.6
1648-1337	Witan Gate	4005	1.2	30.8	5171	0.9	30.9	5132	3.2	30.9	8087	0.5	29.7	8001	1.7	29.7
1648-1359	Witan Gate	4006	1.2	27.0	5180	0.9	26.5	5148	3.2	26.5	8299	0.5	27.1	8301	1.7	27.1
1649-1339	V7 Saxon Street	4851	21.8	32.7	4467	23.4	31.8	4583	22.7	31.8	8232	11.1	30.6	8339	11.0	30.7
1649-1361	V7 Saxon Street	4575	23.1	29.1	4828	21.8	28.8	4798	21.8	28.9	7680	11.8	27.8	7561	12.1	27.7
1650-1341	Secklow Gate	1928	7.8	30.5	3090	4.8	29.4	3151	4.7	29.5	4711	2.8	28.6	4723	2.8	28.5
1650-1363	Secklow Gate	2769	5.6	25.0	4223	3.6	25.7	3886	3.9	24.7	5977	2.2	24.6	6072	2.2	25.0
1651-1359	Avebury Boulevard	4049	2.1	34.1	8286	1.2	33.9	8080	1.3	33.8	11393	0.8	31.9	11066	0.9	31.7
1652-1359	Avebury Boulevard	5931	2.1	35.5	7084	1.6	35.8	7061	3.2	35.9	9753	1.2	34.0	9751	2.2	34.1
1652-1361	Avebury Boulevard	7947	1.6	33.5	10312	1.4	33.5	10416	2.5	33.4	14056	1.0	32.8	13980	1.7	33.0



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1653-1363	Avebury Boulevard	5926	3.6	32.7	10811	2.0	32.5	11136	1.9	32.5	12684	1.6	32.0	12717	1.6	31.9
1654-1363	Avebury Boulevard	6541	3.3	30.5	9999	2.1	29.0	9908	2.1	29.0	9665	1.8	27.3	9791	1.9	27.4
1654-1611	Avebury Boulevard	3365	0.8	40.2	6351	0.5	40.9	6251	0.5	41.0	7181	0.3	39.7	7167	0.4	39.7
1657-1357	V6 Grafton Gate	26135	1.6	33.9	25107	1.6	34.0	25160	1.6	34.0	20491	1.5	31.1	20435	1.5	31.1
1658-1359	Witan Gate	11106	0.6	36.0	13587	0.4	35.0	13347	0.5	35.0	16936	0.3	32.4	16790	0.3	32.4
1658-1360	Witan Gate	13857	0.6	42.7	19169	0.4	44.6	18801	0.4	44.5	23422	0.3	43.3	22984	0.3	43.4
1659-1361	V7 Saxon Street	10201	2.8	31.5	11807	2.5	31.4	11849	2.5	31.3	12837	1.8	29.3	12419	1.9	29.3
1660-1363	Secklow Gate	8424	2.2	24.9	11501	1.6	23.6	11810	1.5	23.7	14667	1.1	23.4	14630	1.1	23.2
1660-1364	Secklow Gate	12039	1.8	30.5	17736	1.2	30.1	17887	1.2	30.0	21190	0.9	29.8	20941	0.9	29.8
1662-1335	Midsummer Boulevard	2433	52.9	30.0	2730	46.6	30.0	2767	45.9	30.0	6246	18.0	26.6	6258	18.0	26.6
1664-1322	Skeldon Gate	7854	2.6	42.0	16481	1.3	40.8	17072	1.2	40.6	19169	1.2	41.2	20055	1.1	40.6
1664-1640	Skeldon Gate	7496	2.6	42.7	13548	1.5	43.3	14377	1.4	43.3	17612	1.2	42.4	18582	1.2	42.4
1665-1570	Silbury Boulevard	7995	5.5	42.2	14936	3.0	42.2	15869	3.6	42.1	21004	2.2	38.8	21937	2.5	39.0
1665-1640	Silbury Boulevard	7929	5.5	42.3	14331	3.2	41.7	15254	3.8	41.6	20374	2.2	39.8	21243	2.6	39.7
1666-1367	Silbury Boulevard	426	57.6	40.9	705	36.6	40.5	788	48.2	41.5	4196	5.9	39.4	4034	8.6	39.7
1666-1640	Silbury Boulevard	435	56.4	42.3	1047	24.7	42.8	1121	34.0	42.0	4226	5.8	43.3	4066	8.5	43.1



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1667-1611	Avebury Boulevard	6624	5.0	42.2	15519	2.2	41.3	15011	2.2	41.5	17483	1.6	38.9	17156	1.7	39.4
1667-1655	Avebury Boulevard	6531	5.0	38.7	15376	2.2	38.2	14803	2.3	38.2	17503	1.6	37.1	17227	1.7	37.1
1668-1368	Avebury Boulevard	263	57.6	39.2	1832	9.5	37.1	2074	8.0	36.9	6591	2.5	38.3	7624	2.3	38.9
1668-1655	Avebury Boulevard	226	66.8	41.1	1552	11.2	43.5	1783	9.3	43.7	6212	2.6	41.8	7279	2.3	41.2
1669-1366	Enmore Gate	8381	2.3	53.2	16530	1.1	52.1	15941	1.2	52.1	15494	0.9	49.1	14262	1.1	48.5
1669-1655	Enmore Gate	6306	2.8	53.6	13850	1.2	52.5	13182	1.3	52.5	12423	1.1	49.7	11138	1.2	50.7
1671-1247	V6 Grafton Street	17611	0.9	75.3	18422	0.9	74.0	18267	0.9	74.0	15321	0.4	72.0	15356	0.5	72.0
1671-1599	Haversham Road	22315	1.0	68.2	27122	1.1	66.7	27064	1.1	66.8	29837	0.4	62.0	28688	0.5	62.0
1671-1600	Newport Road	9983	3.0	33.8	12705	2.6	33.2	13284	2.7	33.3	20105	1.3	31.5	20484	1.5	31.7
1672-1249	Bradwell Road	3316	2.7	37.8	3850	2.4	37.8	3904	2.4	37.7	8638	1.1	36.7	8441	1.1	36.7
1673-1250	V7 Saxon Street	22414	1.1	56.9	28333	0.9	55.8	29641	0.9	55.6	38687	0.6	51.8	38731	0.7	51.7
1674-1574	Wolverton Road	12835	0.7	48.6	17016	0.7	48.5	17874	0.8	48.6	22149	0.4	48.6	22372	0.5	48.7
1675-1225	Wolverton Road	12192	1.0	42.3	16105	0.9	40.5	16731	1.0	41.0	20777	0.5	37.3	20949	0.6	37.3
1675-1674	Wolverton Road	13046	0.9	46.0	17140	0.9	45.6	17951	1.0	45.4	22186	0.6	43.9	22364	0.7	43.8
1677-1525	V4 Watling Street	9855	1.9	53.1	14986	1.3	52.5	15394	1.2	52.6	21960	1.0	52.4	22781	1.0	52.2
1678-1672	Newport Road	9559	2.2	37.8	12365	2.0	37.4	13040	2.1	37.5	17860	1.1	36.7	18460	1.3	36.7



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1678-1673	Newport Road	9559	2.2	38.0	12365	2.0	37.8	13040	2.1	37.6	17860	1.1	35.9	18460	1.3	35.8
1704-1703	A5	54308	2.5	98.1	60283	2.7	97.2	60865	2.7	97.1	67849	2.1	95.9	68489	2.3	95.9
1705-1277	V3 Fulmer Street	18823	1.1	74.5	19351	0.7	74.4	21957	0.6	74.1	26310	0.4	71.9	27351	0.4	71.5
1705-1278	H4 Danstead Way	19462	1.0	76.5	20024	0.7	75.8	22290	0.6	75.3	27649	0.3	72.5	29484	0.4	72.2
1708-1368	Overgate	515	29.7	35.9	1630	10.7	36.5	1936	8.7	37.4	2961	5.2	36.5	3739	4.3	35.6
1708-1369	Overgate	617	25.2	36.5	1938	9.1	35.1	2241	7.6	33.8	3238	4.8	33.1	4015	4.1	34.4
1709-1324	Overgate	2053	14.0	34.6	3768	7.9	32.1	4296	9.8	32.5	8694	3.1	29.7	8901	4.1	29.9
1709-1367	Overgate	1910	14.7	33.3	3294	8.9	35.0	3488	11.9	34.3	8598	3.1	35.5	8801	4.1	34.6
1710-1243	H2 Millers Way	13542	0.5	78.3	14479	0.4	78.2	14694	0.5	78.3	19063	0.3	76.9	19100	0.3	77.0
1711-1244	H2 Millers Way	15077	0.5	75.8	15678	0.4	75.5	15901	0.4	75.6	20951	0.2	73.8	20996	0.3	74.0
1711-1245	H2 Millers Way	15086	0.5	66.3	15740	0.4	65.5	15990	0.4	65.3	20630	0.2	62.4	20468	0.3	62.5
1712-1245	V6 Grafton Street	34040	1.0	67.2	33980	1.0	65.8	34067	1.1	65.8	31109	0.6	67.2	30424	0.7	65.9
1712-1257	V6 Grafton Street	34244	1.0	64.2	34285	1.0	61.3	34312	1.1	60.9	31141	0.6	56.9	30302	0.7	57.3
1713-1326	V10 Brickhill Street	19987	0.6	64.9	22358	0.7	63.8	21206	0.7	64.0	24890	0.3	59.9	22393	0.4	60.3
1713-1371	V10 Brickhill Street	18161	0.5	67.7	20273	0.6	67.4	18957	0.6	67.5	22044	0.3	66.6	19836	0.3	66.9
1714-1517	H10 Bletcham Way	3028	0.5	70.3	7518	0.4	69.0	7523	0.4	68.9	6409	0.5	64.7	6298	0.5	64.4



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1715-1517	V11 Tongwell Street	8549	1.3	72.7	8619	1.3	71.0	8614	1.3	70.9	13280	0.8	65.2	13247	0.8	65.1
1716-1516	H10 Bletcham Way	32732	4.5	94.8	39474	3.2	94.3	39565	3.5	94.2	47809	1.7	88.0	47832	1.9	87.9
1716-1517	H10 Bletcham Way	30100	4.5	88.3	37023	3.1	86.3	37116	3.4	86.0	41914	1.6	77.2	41850	1.8	76.7
1717-1392	V4 Watling Street	18766	0.5	76.7	18389	0.4	75.1	18923	0.4	74.7	20481	0.3	74.6	20800	0.3	74.0
1717-1425	V4 Watling Street	19347	0.6	73.1	19156	0.5	72.5	19653	0.5	72.5	21301	0.3	71.9	21668	0.4	71.8
1718-1442	V10 Brickhill Street	18236	1.2	65.4	21449	1.3	63.8	20798	1.2	63.5	15678	1.0	61.3	15658	1.0	61.1
1718-1476	V10 Brickhill Street	18806	1.2	72.1	22796	1.2	71.4	22246	1.2	71.5	16319	1.0	71.1	16216	1.0	71.0
1719-1477	H9 Groveway	15141	4.0	73.4	16943	3.0	71.0	17648	3.0	70.5	16499	2.5	64.8	16703	2.2	64.9
1719-1478	H9 Groveway	15107	4.0	81.0	16467	3.1	80.4	17331	3.1	80.2	16353	2.6	80.3	16532	2.2	80.2
1720-1476	St Michael's Drive	1156	3.2	21.9	1975	3.3	21.6	2125	3.1	21.4	2857	2.1	22.0	2892	2.1	22.0
1721-1476	Hammerwood Gate	181	0.4	23.0	307	0.5	22.9	288	0.4	22.9	408	0.8	24.0	405	1.0	24.0
1722-1718	Hawkhurst Gate	918	0.9	40.3	1805	0.4	39.9	1795	0.4	39.7	1513	0.4	40.8	1527	0.4	41.0
1724-1512	H10 Bletcham Way	14280	2.9	49.9	16024	2.8	48.9	16571	2.8	48.8	13508	2.4	44.6	13704	2.6	44.5
1725-1724	Road Off Fenny Lock Roundabout	1435	2.4	27.2	1503	2.4	27.2	1504	2.4	27.2	2377	1.5	26.9	2382	1.5	26.9
1726-1610	Malborough Gate	7052	4.1	30.8	11539	2.5	30.7	11639	2.5	30.7	17039	1.5	29.8	16227	1.7	29.8
1726-1611	Malborough Gate	5968	5.0	34.4	10419	2.9	33.6	10512	2.9	33.5	15391	1.7	32.1	14715	1.9	31.9



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1728-1601	H5 Portway	3866	1.4	75.3	3791	1.5	75.1	3800	1.5	75.1	6808	0.8	70.8	6848	0.9	70.8
1729-1570	Malborough Gate	820	1.3	20.1	1632	0.7	19.7	1587	0.7	19.6	1181	1.0	19.5	1184	1.0	19.9
1731-1570	Malborough Gate	5321	7.7	28.0	8568	4.8	28.2	9027	5.8	28.2	13228	2.8	27.9	13308	3.6	27.8
1731-1610	Malborough Gate	5321	7.7	31.3	8473	4.9	31.2	8981	5.8	31.1	13221	2.8	31.0	13271	3.6	30.9
1731-1730	Marlborough Gate Car Park	0	0.0	0.0	1037	0.0	22.4	1036	0.0	22.3	705	0.0	22.1	697	0.0	22.0
1732-1643	V7 Saxon Gate	4818	0.7	24.2	4585	0.7	24.5	4605	0.7	24.5	6841	0.4	23.8	6597	0.4	23.8
1740-1341	Midsummer Boulevard	1056	100.0	30.3	1040	100.0	30.3	1157	100.0	30.3	940	100.0	30.7	1057	100.0	30.7
1742-1661	Silbury Boulevard	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
1751-1750	Montgomery Crescent	3186	0.6	19.8	3492	0.6	19.8	3327	0.6	19.8	6981	0.5	19.9	6079	0.6	19.9
1752-1751	Lascelles Close	11896	1.0	16.9	12096	1.1	16.9	12077	1.1	16.9	16426	0.8	15.6	16358	0.8	15.9
1780-1653	Lower Tenth Street	3950	0.4	22.7	8873	0.2	22.6	9308	0.2	22.6	4760	0.3	21.4	4637	0.3	21.4
1783-1360	Evans Gate	2263	2.4	18.6	3696	1.6	18.5	3621	1.7	18.4	10545	0.6	17.6	10262	0.6	17.6
1792-1790	Milton Keynes Central Station	158	100.0	27.1	156	100.0	27.1	156	100.0	27.1	143	100.0	27.1	143	100.0	27.1
1795-1364	Pentewan Gate	2945	1.0	34.5	3099	1.0	34.0	3132	1.0	34.1	5147	0.5	32.3	5411	0.5	32.0
1800-1660	Secklow Gate W	1842	0.5	20.9	4399	0.2	20.4	4227	0.2	20.4	4538	0.2	20.4	4447	0.2	20.4



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1801-1650	Secklow Gate	927	0.6	22.4	1254	0.5	22.3	1222	0.5	22.4	1593	0.2	22.3	1581	0.2	22.3
1802-1656	Midsummer Boulevard	2076	0.6	23.9	3004	0.4	23.8	3097	0.4	23.6	5059	0.2	23.6	4904	0.3	23.3
1803-1639	North Twelfth Street	4220	0.8	22.0	6290	0.6	21.9	6216	0.6	22.0	8218	0.4	21.6	8237	0.4	21.8
1804-1639	North Twelfth Street	202	0.2	20.9	376	0.2	20.9	436	0.1	20.7	1097	0.0	20.1	1124	0.0	20.1
1805-1635	Secklow Gate East	614	0.6	24.4	1230	0.3	24.5	1223	0.3	24.5	1259	0.3	24.1	1209	0.3	23.7
1806-1635	Secklow Gate West	2135	1.3	21.7	2675	1.1	21.5	2710	1.0	21.6	4092	0.6	21.2	3972	0.7	21.1
1807-1638	North Tenth Street	747	1.1	21.7	1166	0.7	22.2	1230	0.7	22.2	1824	0.6	21.2	1952	0.5	21.4
1808-1634	V7 Saxon Gate	1621	0.4	26.0	1688	0.4	26.0	1595	0.5	26.0	2476	0.3	26.0	2377	0.3	26.0
1809-1638	North Tenth Street	9231	0.8	32.2	10219	0.8	32.0	10179	0.8	32.0	15209	0.6	30.7	15152	0.6	30.7
1813-1649	V7 Saxon Street	178	2.0	23.3	931	0.4	23.3	802	0.5	23.3	1289	0.2	23.2	1145	0.2	23.2
1814-1650	Secklow Gate	91	1.4	18.9	2084	0.1	22.1	1792	0.1	21.3	3663	0.1	21.9	3805	0.1	22.0
1815-1653	Avebury Boulevard	3116	6.3	38.5	7681	2.6	38.2	7550	2.6	38.2	8508	2.1	35.0	8543	2.1	34.9
1815-1740	Lower Ninth Street	1186	100.0	33.8	1168	100.0	33.8	1285	100.0	33.8	1061	100.0	33.6	1178	100.0	33.6
1816-1653	South Tenth Street	1249	0.8	29.0	1511	0.8	29.0	1535	0.8	29.0	2046	0.6	28.0	2149	0.6	28.2
1817-1659	South Eighth Street	555	0.8	24.4	619	0.8	24.3	609	0.8	24.3	1368	0.4	21.9	1275	0.5	21.9
1818-1660	Secklow Gate E	2054	0.8	26.0	2423	0.7	26.0	2420	0.7	26.0	2879	0.5	25.8	2848	0.5	25.8



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1819-1654	Lower Twelfth Street	806	0.2	23.6	1560	0.1	23.8	1542	0.1	23.8	1066	0.1	23.7	1039	0.0	23.7
1820-1654	Lower Twelfth Street	2374	8.0	21.8	2092	8.8	21.9	2120	8.7	21.8	4501	3.7	20.9	4316	3.9	21.0
1821-1656	Midsummer Boulevard	2672	0.4	22.4	4398	0.3	22.2	4439	0.3	22.2	6329	0.3	22.0	6307	0.3	22.0
1822-1659	South Eighth Street	2812	0.5	25.6	2371	0.6	25.7	2410	0.6	25.7	2823	0.4	24.9	2875	0.4	24.8
1823-1652	South Seventh Street	686	0.8	21.7	1479	0.6	22.6	1447	0.6	22.5	2632	0.3	22.9	2769	0.3	22.9
1824-1658	Witan Gate	4283	0.6	21.8	4610	0.6	21.6	4633	0.6	21.6	7516	0.4	19.9	7403	0.4	19.9
1825-1652	South Seventh Street	12966	0.5	21.7	14308	0.5	21.7	14299	0.5	21.7	19646	0.4	21.6	19384	0.4	21.6
1826-1649	V7 Saxon Street	455	0.0	23.7	570	0.0	23.7	587	0.0	23.7	1844	0.0	23.6	1930	0.0	23.6
1827-1645	Midsummer Boulevard	9415	0.5	21.9	10037	0.5	21.7	10059	0.5	21.7	13497	0.3	21.6	13518	0.4	21.6
1830-1643	V7 Saxon Gate	0	0.0	22.5	0	0.0	25.1	0	0.0	26.0	51	0.1	21.2	8	0.3	22.6
1831-1637	North Sixth Street	3554	0.6	21.8	3796	0.6	21.8	3816	0.6	21.8	5127	0.6	21.6	5139	0.6	21.6
1832-1642	Witan Gate	419	2.5	22.9	592	1.9	22.8	598	1.9	22.8	896	1.2	22.7	972	1.0	22.7
1833-1637	North Sixth Street	283	1.0	20.2	495	1.5	20.0	547	0.6	20.3	1751	0.5	22.5	1512	0.7	22.3
1834-1634	V7 Saxon Gate	787	1.8	23.5	905	1.5	23.5	868	1.6	23.4	3078	0.9	22.2	3245	0.8	22.1
1835-1633	Witan Gate	6647	0.7	24.3	6848	0.7	24.2	6836	0.8	24.2	6571	0.5	23.0	6528	0.5	23.2
1836-1633	Witan Gate	575	0.1	23.2	874	0.1	23.0	871	0.1	23.0	1169	0.1	21.8	1178	0.1	21.9



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
1838-1636	North Third Street	170	0.1	22.7	384	0.1	21.9	382	0.1	21.9	551	0.0	22.5	546	0.0	22.5
1839-1636	Upper Third Street	7302	0.7	21.6	6367	1.0	21.9	7071	1.0	22.0	11819	0.6	21.6	12890	0.5	21.8
1840-1641	V6 Grafton Gate	7439	0.9	24.2	8972	0.7	23.8	8457	0.7	23.7	9434	0.7	23.5	8437	0.8	23.2
1841-1642	Witan Gate	0	0.0	24.3	2	0.0	25.5	4	0.6	25.8	188	0.0	26.0	88	0.1	25.6
1842-1644	Upper Fourth Street	5783	1.1	22.7	5050	1.3	22.3	4860	1.3	22.4	6926	0.8	22.5	6861	0.8	22.5
1843-1644	Lower Fourth Street	3032	0.5	21.0	5622	0.4	20.8	5614	0.4	20.8	8365	0.3	20.6	8280	0.3	20.6
1844-1647	Lower Second Street	2038	0.4	26.0	3207	0.2	26.0	3214	0.2	26.0	3745	0.2	26.0	3685	0.2	26.0
1845-1648	Witan Gate	0	0.0	26.0	9	0.3	26.0	16	0.2	26.0	213	0.0	26.0	301	0.0	26.0
1846-1651	South Fourth Street	6387	0.9	20.9	8745	0.6	21.3	8755	0.6	21.3	8452	0.6	21.2	8413	0.6	21.2
1848-1657	V6 Grafton Gate	0	0.0	0.0	1062	0.0	23.9	1063	0.0	23.9	1015	0.0	21.5	997	0.0	21.5
1849-1658	Witan Gate	0	0.0	0.0	3948	0.0	25.0	3814	0.0	24.9	2604	0.0	24.9	2627	0.0	24.9
1861-1860	A5	9595	1.9	72.7	10762	1.9	72.2	10766	1.9	72.2	11062	1.6	71.1	11536	1.6	71.0
1863-1550	A5	14084	1.6	61.8	16332	1.3	60.1	16517	1.3	60.0	18412	1.2	59.4	18634	1.2	59.2
1863-1862	A5	3110	0.5	60.5	2434	0.8	57.1	2353	0.8	57.1	1702	1.1	52.0	1650	1.2	51.9
1868-1860	A5	14601	2.0	98.6	19066	2.3	98.0	19243	2.2	97.9	30034	1.4	95.1	30102	1.4	94.8
1869-1863	A5	10974	1.9	42.2	13898	1.4	40.1	14164	1.4	40.0	16710	1.2	39.5	16983	1.2	39.3



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1870-1320	H5 Portway	25348	1.1	89.3	24446	1.0	89.5	24766	1.1	89.4	26169	0.8	84.8	26642	0.7	74.7
1870-1321	H5 Portway	23000	1.1	77.6	21100	1.0	77.4	21471	1.0	77.4	20308	0.7	77.5	20308	0.6	77.8
1900-1226	Little Linford Lane	8101	0.7	40.9	9465	0.6	40.2	9648	0.6	40.1	13742	0.6	38.7	12946	0.6	39.2
1903-1226	Wolverton Road	10864	1.0	35.0	13086	1.0	34.4	13345	1.0	34.6	18413	0.5	32.9	18540	0.5	33.1
1904-1900	Little Linford Lane	8261	0.3	44.6	9650	0.3	44.4	9817	0.3	44.3	12802	0.4	43.2	12199	0.4	43.4
1904-1902	Little Linford Lane	3917	0.6	46.1	5502	0.5	45.5	6023	0.5	45.4	10466	0.6	44.2	10789	0.5	44.2
1905-1903	Wolverton Road	10864	1.0	37.5	13086	1.0	37.4	13345	1.0	37.4	18413	0.5	36.7	18540	0.5	36.8
1906-1905	Wolverton Road	9256	1.1	39.4	11716	1.0	39.4	11862	1.0	39.4	17556	0.5	39.2	18289	0.5	39.0
1907-1906	Westbury Lane	5334	3.1	45.7	5583	3.0	46.4	5706	2.9	46.6	12362	1.4	43.2	12641	1.3	42.3
1910-1906	Wolverton Road	13436	1.9	35.5	16090	1.7	35.4	16238	1.7	35.4	24361	1.0	31.3	24652	1.0	30.6
1911-1227	Wolverton Road	13332	2.1	33.1	15710	1.9	33.0	15673	1.9	33.1	21433	1.2	30.3	21756	1.1	29.9
1911-1910	Wolverton Road	12637	2.1	38.3	15095	1.9	38.2	15109	1.9	38.2	21261	1.1	35.6	21450	1.1	35.5
1912-1227	Marsh End Road	11417	2.3	34.0	11941	2.3	33.2	11532	2.2	34.1	10984	1.6	30.1	12675	1.3	30.5
1912-1272	Marsh End Road	13652	1.8	37.6	13914	1.8	37.6	13525	1.8	37.5	14325	1.2	37.0	15923	1.0	36.1
1913-1272	Marsh End Road	11057	2.5	35.9	11220	2.5	35.8	10714	2.4	36.1	11914	1.5	34.1	14326	1.2	35.0
1914-1913	Marsh End Road	11622	2.5	38.5	11769	2.5	38.5	11237	2.4	38.5	12420	1.5	35.4	15279	1.2	35.4



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1915-1914	Willen Road	4101	1.8	37.7	5727	1.2	37.3	3878	1.6	37.6	10353	1.5	35.7	9257	1.2	35.0
1916-1915	Willen Road	4101	1.8	38.7	5727	1.2	38.7	3878	1.6	38.7	10353	1.5	38.9	9257	1.2	38.9
1917-1916	Caldecote Street	3292	1.2	28.6	4983	0.7	28.7	3131	1.3	28.6	10171	1.3	29.0	8825	1.0	29.0
1918-1917	Caldecote Street	1686	0.2	29.9	3441	0.1	29.8	1685	0.6	29.9	7953	1.2	29.8	6878	1.1	29.7
1919-1227	High Street	12702	3.0	26.0	14946	2.8	25.5	13437	2.9	25.5	15131	1.7	23.0	14529	2.1	23.5
1919-1918	Caldecote Street	1686	0.2	25.9	3441	0.1	26.7	1685	0.6	25.9	7953	1.2	23.9	6878	1.1	25.3
1920-1919	High Street	13823	2.7	26.3	17780	2.3	26.0	14556	2.7	26.6	18943	1.9	24.2	19559	1.9	24.3
1921-1920	Queens Avenue	640	0.8	24.2	731	1.4	23.3	727	1.4	23.7	1475	0.4	23.0	2137	0.3	21.5
1922-1228	High Street	13851	2.0	25.8	17801	1.8	25.2	14599	2.0	26.0	19231	1.4	24.1	20506	1.5	24.2
1923-1228	High Street	14215	1.6	26.6	16072	1.6	26.2	15903	1.7	26.4	19417	1.3	25.9	18602	1.4	26.0
1924-1229	B526 Northampton Road	11830	0.9	37.0	13826	1.0	36.8	13866	1.2	37.2	17033	1.0	35.2	15991	1.1	34.9
1924-1923	High Street	13511	1.3	27.1	15445	1.3	27.0	15489	1.5	27.0	19219	1.2	26.5	18106	1.3	26.5
1929-1628	North Crawley Road	8120	0.5	29.1	9176	0.5	28.7	9648	0.5	28.7	13762	0.5	27.1	14571	0.8	26.6
1929-1928	Renny Park Road	3733	5.0	34.1	5076	4.3	33.8	5255	4.3	34.4	6968	3.2	32.8	11240	2.6	33.6
1930-1228	A526 St Johns Street	8407	1.6	31.1	9934	1.6	30.3	9506	1.6	30.6	15108	0.9	29.5	16427	1.3	28.2
1931-1930	A526 St Johns Street	8274	1.6	38.2	9787	1.6	38.1	9357	1.6	38.2	15151	1.0	37.9	16649	1.3	37.8



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1932-1931	B526 Tickford Street	8924	1.7	38.8	10370	1.6	38.8	10035	1.8	38.8	16441	1.0	38.3	17798	1.4	38.4
1933-1274	B526 Tickford Street	10602	1.7	36.6	11366	1.6	36.5	11242	1.7	36.6	18478	1.0	35.9	19314	1.4	35.8
1933-1932	B526 Tickford Street	9587	1.7	38.4	10410	1.6	38.3	10407	1.8	38.4	17228	1.0	37.4	18039	1.4	36.7
1934-1274	B526 Tickford Street	12332	1.8	38.8	13652	1.5	38.6	13980	1.5	38.6	20189	1.1	38.4	21174	1.4	38.4
1934-1628	B526 Tickford Street	12626	1.8	35.7	13906	1.5	35.5	14377	1.5	35.4	20390	1.1	32.5	21520	1.3	33.5
1940-1003	H10 Bletcham Way	10810	1.6	54.2	12029	1.9	54.1	12522	1.8	54.1	17637	1.6	53.0	15898	1.8	53.0
1940-1504	H10 Bletcham Way	12032	1.5	44.2	13223	1.8	44.1	13713	1.7	44.0	18968	1.6	43.0	17199	1.7	43.0
1941-1335	Midsummer Boulevard	8093	13.8	30.5	9812	11.2	28.2	9681	12.6	28.1	14943	6.6	28.9	15113	7.2	28.7
1942-1337	Midsummer Boulevard	8397	13.1	28.5	9619	11.2	28.5	9428	12.7	28.5	14722	6.5	26.6	14578	7.3	26.7
1943-1337	Midsummer Boulevard	6121	17.2	29.8	6764	15.4	29.5	6764	15.4	29.4	11094	8.6	29.9	10959	8.8	29.8
2000-1254	Abbey Hill Roundabout	14613	1.9	41.0	16785	2.2	40.9	16850	2.4	40.9	23315	1.3	32.8	23409	1.7	32.7
2002-1544	A5	5683	3.4	52.0	5465	3.4	51.9	5751	3.4	50.9	5984	2.0	50.0	6189	2.4	49.9
2002-1545	Abbey Hill Roundabout	11138	2.4	28.1	12849	2.0	27.1	12857	2.1	27.0	14105	1.3	24.8	14226	1.4	24.6
2002-2000	Abbey Hill Roundabout	13532	1.0	32.4	17820	0.8	31.1	17556	0.9	30.8	20304	0.6	25.8	20230	0.6	25.7
2003-1545	Abbey Hill Roundabout	9893	1.2	30.6	14321	0.9	28.7	14310	0.9	28.6	15080	0.7	25.8	15001	0.7	25.7
2003-1546	H3 Monks Way	10570	2.0	37.2	10797	2.1	37.0	10589	2.9	37.0	18048	1.0	34.2	17995	1.8	34.1



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2003-1547	A5	8748	0.8	72.1	10643	0.8	71.6	10772	0.8	71.6	15353	0.4	64.1	15520	0.5	64.0
2004-1254	Abbey Hill Roundabout	15793	1.6	43.2	18264	1.6	43.4	18004	2.0	43.3	26618	0.9	42.9	26600	1.3	42.9
2004-1548	V5 Great Monks Street	4014	1.7	72.0	7273	1.1	72.0	7301	1.1	72.0	11824	0.6	72.0	11756	0.6	72.0
2004-2003	Abbey Hill Roundabout	11715	2.2	34.4	14279	1.9	32.5	13899	2.6	32.5	16571	1.3	31.0	16270	2.1	31.1
2005-1332	Broughton Interchange	4010	6.9	25.2	5316	4.5	25.3	5320	9.8	25.3	5455	3.3	25.3	5542	9.7	25.3
2008-1565	A509 London Road	9713	5.8	45.0	8889	4.4	45.0	9099	10.7	44.9	8457	4.9	45.0	10297	10.2	44.7
2008-1566	Broughton Interchange	22691	4.4	42.3	27736	3.7	42.0	27994	3.6	41.9	28521	2.8	41.7	26760	2.8	41.9
2008-2006	M1 Slip Road J14	17723	5.8	30.0	21144	4.4	30.9	20490	6.1	31.0	21776	3.7	29.3	21196	5.9	29.9
2009-2006	M1 Mainline	44622	23.9	107.2	59018	19.5	108.1	59444	19.5	108.1	70144	18.4	106.8	69406	17.9	106.8
2010-1554	Redmoor Roundabout	10251	1.4	23.6	12062	1.3	23.9	11965	1.3	23.9	16538	1.1	24.0	16712	1.0	23.0
2010-1555	V6 Grafton Street	6726	2.1	35.5	7881	2.6	35.4	7775	2.6	35.4	12679	1.7	34.0	11897	1.8	34.1
2010-1556	Redmoor Roundabout	8521	1.7	19.8	8706	1.5	18.2	8628	1.5	18.3	12315	1.2	17.6	11342	1.2	17.5
2011-2007	A5	12576	1.3	98.6	17707	1.0	98.0	17855	1.0	98.0	23616	0.8	96.0	23627	0.8	96.1
2012-1466	Redmoor Roundabout	7865	2.6	22.2	9010	2.4	22.0	8704	2.4	22.0	14390	2.0	20.7	13833	2.0	20.8
2012-1553	H9 Groveway	6227	1.6	36.4	8764	1.4	36.0	8929	1.3	36.0	13096	0.9	35.2	12821	0.8	35.3
2012-1554	Redmoor Roundabout	6173	1.7	21.9	7902	1.7	21.6	7937	1.6	21.6	13167	1.6	19.2	13048	1.5	19.3



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2012-2011	A5	7919	2.5	71.0	9871	2.1	70.5	9695	2.1	70.5	14317	1.4	69.5	13602	1.4	69.6
2013-1723	A509 Portway	37004	3.9	101.4	40656	3.7	100.3	39413	3.9	100.4	43611	2.8	99.4	42848	3.1	99.6
2013-2005	A509 Portway	20832	4.6	24.0	23161	3.9	23.8	22016	4.4	23.8	23747	3.0	23.7	23218	3.5	23.7
2015-1601	V2 Tattenhoe Street	1595	0.5	64.7	5753	1.4	65.8	5954	1.3	65.8	20032	0.6	64.3	20291	0.6	64.1
2016-1378	Hayton Way	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
2017-1512	A5	5114	0.6	74.2	4668	0.4	73.9	4611	0.4	73.9	10086	0.5	73.4	9992	0.5	73.4
2018-1512	A5	7889	0.7	61.8	9409	3.2	60.9	9435	3.5	60.7	8570	1.6	53.8	8660	1.9	53.5
2018-2017	A5	13446	2.2	98.9	20640	1.9	98.2	20833	1.8	98.2	27856	1.3	96.7	27730	1.3	96.7
2019-2000	A5	6973	2.9	71.1	6669	4.3	70.8	6707	4.9	70.8	8972	2.5	70.7	9032	3.4	70.7
2020-2004	A5	8092	0.9	56.1	11258	0.8	55.7	11405	0.8	55.6	21868	0.5	53.4	22079	0.4	53.4
2020-2019	A5	16308	2.5	98.5	18503	3.1	98.0	18517	3.0	97.9	17763	2.9	97.8	18097	2.9	97.8
2021-2010	A5	8457	1.7	71.3	11239	2.0	70.9	11113	2.0	70.9	16291	1.5	69.2	16428	1.4	69.2
2022-2021	A5	12732	1.6	98.7	18862	1.6	98.1	19106	1.6	98.1	28526	1.1	95.3	28490	1.0	95.3
2023-1332	M1 Slip Road J14	14916	5.9	43.6	15622	4.8	40.9	15992	5.7	40.4	16475	3.5	38.9	16422	4.6	38.9
2024-2023	M1 Mainline	38377	27.7	106.6	48681	23.2	103.5	48975	23.1	103.4	53224	20.2	97.7	52944	20.1	98.3
2025-1318	Hampstead Gate	5331	0.7	22.6	4492	0.7	21.5	4481	0.7	21.4	4962	0.1	18.6	4807	0.1	18.5



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2026-1320	Mallow Gate	3904	1.7	21.9	3861	1.8	21.8	3621	1.9	21.8	7231	0.9	21.2	7135	0.9	21.2
2029-1672	Newport Road	8456	3.4	37.7	10805	3.0	37.9	11407	3.1	37.8	16266	1.6	37.4	16476	1.8	37.4
2030-1600	Newport Road	4740	5.7	39.4	7218	4.2	39.3	7801	4.2	39.3	10174	2.3	39.1	10464	2.5	39.1
2030-2029	Newport Road	4740	5.7	39.5	7218	4.2	39.7	7801	4.2	39.6	10174	2.3	39.6	10464	2.5	39.6
2031-1920	High Street	13123	2.4	24.3	17047	2.0	23.5	13770	2.4	23.9	17481	1.7	22.9	19052	1.7	22.6
2031-1922	High Street	13851	2.0	28.4	17801	1.8	28.2	14601	2.0	28.4	19231	1.4	27.9	20506	1.5	27.9
2033-1368	Overgate	478	0.8	32.9	2606	0.2	33.2	2817	0.2	33.0	5791	0.1	32.7	6196	0.1	32.7
2033-1670	Overgate	478	0.8	38.1	2174	0.3	38.9	2375	0.3	38.6	5786	0.1	38.4	6193	0.1	38.3
2034-1367	Overgate	478	0.8	33.2	2174	0.3	31.8	2375	0.3	32.1	5786	0.1	32.3	6193	0.1	32.2
2034-1670	Overgate	478	0.8	38.2	2174	0.3	37.6	2375	0.3	37.8	5786	0.1	37.9	6193	0.1	38.0
2035-1322	Darley Gate	1377	5.8	22.2	1595	5.0	21.4	1549	5.3	21.1	5059	1.6	19.2	4156	1.9	19.3
2036-1366	Kenwood Gate	2535	5.2	24.2	2941	4.5	23.6	3052	4.4	23.6	3334	3.7	22.0	3394	3.6	21.9
2037-1439	Newport Road	870	0.3	34.6	840	0.4	34.3	842	0.4	34.3	2032	0.2	33.2	2022	0.2	33.2
2038-1474	H9 Groveway	23694	1.8	93.4	24315	1.5	92.6	24851	1.4	92.4	38742	0.9	79.1	39873	0.9	78.6
2038-1475	H9 Groveway	27330	2.0	78.2	28082	1.6	77.3	28941	1.6	77.1	39611	0.9	71.3	39708	0.9	71.1
2038-1511	Simpson Drive	3312	2.2	37.6	4702	1.6	37.6	5254	1.5	37.9	10717	1.2	34.7	11136	1.3	34.2



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
2040-1452	Whaddon Way	1954	7.7	36.3	3185	4.8	36.2	3172	4.7	36.2	12558	1.2	35.5	13263	1.2	35.5
2040-1454	Whaddon Way	2475	6.1	33.7	3737	4.1	33.7	3738	4.0	33.7	14385	1.0	33.5	15117	1.0	33.6
2041-1455	Whaddon Way	3533	3.7	30.3	4015	3.3	30.3	4022	3.2	30.3	17188	0.8	28.6	18054	0.7	29.4
2041-1458	Whaddon Way	5165	2.5	26.3	5888	2.2	26.3	5873	2.2	26.2	15032	0.9	24.6	15629	0.8	24.6
2041-1485	Shenley Road	4285	0.0	31.2	4998	0.0	31.2	4949	0.0	31.1	12848	0.0	30.6	12915	0.0	30.4
2047-1499	V7 Saxon Street	24914	1.9	35.8	29860	1.6	35.4	29920	1.6	35.4	38327	1.1	33.8	38452	1.1	33.8
2047-1500	V7 Saxon Street	26801	1.9	44.7	31760	1.7	43.3	31840	1.7	43.2	39790	1.2	35.4	40012	1.2	35.3
2049-1510	Bond Avenue	5927	2.5	36.0	9203	1.5	36.2	9291	1.6	36.3	14748	1.1	35.4	15184	1.2	35.5
2050-1509	Bond Avenue	3516	3.9	38.0	7272	2.2	36.5	7180	2.2	36.6	16310	1.1	35.5	16659	1.2	35.5
2050-1510	H10 Bletcham Way	12345	3.6	28.4	16417	2.8	28.3	16857	2.9	28.3	25744	1.7	26.8	25848	1.8	26.8
2050-1724	H10 Bletcham Way	13876	2.8	59.3	15578	2.7	59.3	16107	2.8	59.2	13544	2.3	58.5	13705	2.4	58.5
2051-1356	H6 Childs Way	44683	0.7	98.9	43149	0.7	98.7	43623	0.8	98.6	46485	0.4	97.8	47154	0.4	97.9
2054-1662	Elder Gate	1757	34.8	24.9	3405	17.8	27.2	3626	16.7	27.3	6600	8.1	27.6	6781	7.9	27.6
2054-1727	Elder Gate	1599	28.3	29.0	3247	13.9	28.4	3585	15.8	28.5	6452	6.1	26.0	6750	7.4	26.1
2054-1792	Milton Keynes Central Station	158	100.0	25.1	156	100.0	25.0	156	100.0	25.0	143	100.0	24.6	143	100.0	24.6
2055-1662	Elder Gate	235	99.9	28.3	1979	11.7	26.6	2165	10.7	26.4	8784	2.6	26.4	8886	2.5	26.4



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2055-1663	Elder Gate	76	99.7	27.4	76	99.2	27.4	76	99.3	27.4	4694	1.5	29.6	4821	1.5	29.6
2055-1790	Milton Keynes Central Station	158	100.0	23.5	1903	8.2	23.2	2089	7.5	23.2	4090	3.7	22.9	4065	3.8	22.9
2057-1272	Green Park Drive	3015	0.6	30.0	3148	0.7	30.0	2875	0.9	30.4	8378	0.6	27.8	8627	0.7	27.3
2058-1912	The Green	2282	1.3	29.1	2020	1.4	29.3	2041	1.5	29.7	4667	0.8	28.8	4717	0.8	28.1
2070-1482	Newport Road	11591	1.2	57.7	13540	0.9	50.5	13592	0.9	50.6	20633	0.7	47.5	20111	0.8	47.7
2078-2072	Stoke Road	1330	6.8	65.2	1505	5.9	65.2	1454	6.0	65.2	2715	3.0	64.6	2874	2.8	64.5
2095-2082	A4146	33357	3.3	96.4	38683	2.6	96.1	38837	2.7	96.1	39718	1.4	96.0	39530	1.5	96.0
2096-2072	Great Brickhill Road	2755	4.2	64.0	5792	3.9	62.7	5837	5.6	62.6	11761	3.0	59.3	11493	3.3	59.2
2118-1332	Broughton Interchange	15558	3.7	26.0	16352	3.2	26.0	17195	4.2	26.0	16968	2.6	26.0	17674	3.3	26.0
2118-2008	Broughton Interchange	15558	3.7	30.3	16352	3.2	27.3	17195	4.2	27.0	16968	2.6	26.3	17674	3.3	24.8
2119-1566	Broughton Interchange	21692	4.6	45.0	23739	4.0	45.0	22892	4.8	45.0	24320	3.1	45.0	24168	4.1	45.0
2119-2005	Broughton Interchange	21692	4.6	31.8	23739	4.0	30.6	22892	4.8	30.7	24320	3.1	30.1	24168	4.1	30.2
2278-1280	H4 Danstead Way	22472	1.1	74.3	25010	0.7	68.3	27167	0.7	68.5	34073	0.4	64.1	36130	0.4	63.6
2301-1318	H5 Portway	16191	0.7	96.0	19817	0.6	95.3	19690	0.6	95.3	22324	0.5	94.3	22153	0.5	94.2
2306-1358	H6 Childs Way	26193	0.9	77.2	23730	0.7	75.6	23975	0.8	75.8	26721	0.5	72.8	27753	0.5	72.8
2306-1360	H6 Childs Way	26193	0.9	86.2	23730	0.7	84.8	23975	0.8	84.7	26721	0.5	84.9	27753	0.5	84.9



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2307-1360	H6 Childs Way	28898	0.7	83.2	33408	0.5	81.4	32798	0.6	81.6	33785	0.4	80.2	34969	0.5	78.0
2307-1362	H6 Childs Way	28898	0.7	82.4	33408	0.5	82.1	32798	0.6	81.9	33785	0.4	78.5	34969	0.5	78.7
2310-1362	V7 Saxon Gate	13072	2.3	33.4	14442	2.2	32.4	14508	2.2	32.5	15021	1.6	29.8	14389	1.7	29.9
2310-1659	V7 Saxon Street	13072	2.3	39.2	14442	2.2	39.2	14508	2.2	39.2	15021	1.6	39.3	14389	1.7	39.3
2311-1321	V8 Malborough Street	38186	0.7	86.9	39808	0.7	87.2	39574	0.7	86.9	38289	0.4	82.4	39120	0.4	81.7
2311-1365	V8 Malborough Street	38186	0.7	88.6	39809	0.7	84.2	39574	0.7	84.2	38289	0.4	78.2	39120	0.4	79.5
2312-2311	Road off V8 Malborough Street	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
2356-1358	H6 Childs Way	36077	0.7	80.3	34423	0.6	79.5	34776	0.7	79.5	40072	0.3	76.7	40385	0.4	76.8
2356-2051	H6 Childs Way	46489	0.7	85.8	44497	0.7	85.4	44938	0.7	84.5	46461	0.4	77.9	47100	0.4	73.3
2601-1404	V10 Brickhill Street	22127	1.1	81.7	27665	1.0	79.8	27054	0.8	79.8	27253	0.5	78.2	27091	0.5	78.0
2601-1405	V10 Brickhill Street	22127	1.1	70.9	27665	1.0	69.7	27054	0.8	70.0	27253	0.5	68.4	27091	0.5	68.2
2602-1372	V10 Brickhill Street	24944	0.9	71.1	31029	0.9	67.6	30475	0.7	67.0	30013	0.5	62.8	28909	0.5	62.5
2602-1404	V10 Brickhill Street	24944	0.9	80.2	31028	0.9	77.9	30476	0.7	77.9	30013	0.5	76.3	28909	0.5	76.4
2603-1405	H7 Chaffron Way	20315	1.2	74.4	20652	1.0	73.3	21340	1.0	73.1	26993	0.6	70.2	27099	0.5	70.3
2604-1403	H7 Chaffron Way	22783	1.1	80.5	23048	0.9	79.9	23878	0.9	79.7	30207	0.6	77.8	30344	0.4	77.9
2604-2603	H7 Chaffron Way	20315	1.2	75.8	20652	1.0	75.2	21340	1.0	75.0	26993	0.6	73.4	27099	0.5	73.4



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2613-2070	Lower End Road	2818	0.0	60.8	1368	0.0	54.6	1335	0.0	55.0	3267	0.0	56.9	3633	0.0	56.7
2701-2005	M1 Slip Road J14	3150	7.5	31.3	4741	4.2	30.7	4451	8.7	30.8	4928	3.2	30.9	4649	7.2	30.6
2701-2013	M1 Slip Road J14	16170	3.1	26.7	17723	3.4	25.0	17627	3.3	25.0	20098	2.4	24.0	19863	2.7	24.2
3012-1356	Elder Gate	4329	0.4	15.9	8697	0.2	16.1	8484	0.2	16.1	11188	0.1	16.2	11170	0.1	16.2
3012-3011	Elder Gate	3412	0.3	28.3	4975	0.2	27.2	4919	0.2	27.2	9378	0.1	26.9	9315	0.1	26.9
3033-1661	Elder Gate	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
3051-2051	Snowdon Drive	2361	0.3	49.8	2041	0.4	48.3	2003	0.4	48.3	2991	0.3	37.3	2909	0.3	37.0
3096-1321	H5 Portway	16334	1.4	80.0	17474	1.2	77.2	18807	1.1	77.6	23932	0.7	75.6	21319	0.7	75.3
3100-1571	A5 Watling Street Roundabout	11429	2.8	25.4	13260	2.3	25.7	13535	2.4	25.7	16259	1.5	24.5	16323	1.7	24.5
3100-1612	A5 Watling Street Roundabout	10315	4.0	88.0	10954	3.6	88.0	11008	4.2	88.0	13925	2.0	88.0	13907	2.6	88.0
3101-1612	A5 Watling Street Roundabout	8028	3.4	28.4	11007	2.2	28.3	11186	2.5	28.3	16176	1.4	27.0	16245	1.5	27.0
3101-1613	A5 Watling Street Roundabout	6918	2.3	48.0	8005	1.9	48.0	8006	1.9	48.0	9583	1.2	48.0	9684	1.2	48.0
3102-1609	A5 Watling Street Roundabout	26491	2.4	97.0	30125	2.1	97.0	30586	2.1	97.0	35140	1.7	97.0	35345	1.7	97.0
3102-1613	A5 Watling Street Roundabout	21334	2.7	40.2	22961	3.4	39.1	23013	3.6	39.0	24609	2.8	37.2	24967	3.1	36.9
3103-1572	A5 Watling Street Roundabout	15299	1.7	81.1	16155	1.9	79.7	16096	1.9	79.7	16476	1.7	78.1	16487	1.6	78.1



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3103-1609	A5 Watling Street Roundabout	13681	2.3	26.4	14794	1.8	26.2	14833	1.8	26.2	16642	1.5	25.9	16662	1.5	25.8
3104-1571	A5 Watling Street Roundabout	10747	4.5	92.0	13148	4.4	92.0	13182	4.5	92.0	12171	4.2	92.0	12129	4.2	92.0
3104-1572	A5 Watling Street Roundabout	12774	3.4	35.2	14559	2.8	34.9	14500	2.8	34.9	16681	2.3	32.7	16700	2.3	32.6
3104-2580	A5	29853	3.9	81.7	35608	3.6	76.8	35600	3.6	76.7	38909	3.1	73.1	38945	3.1	73.0
3105-3103	A508 Northampton Road	32662	2.0	80.9	34931	1.9	79.5	34922	1.9	79.5	37597	1.6	76.9	37634	1.5	76.9
3106-1544	A5	30082	2.4	94.5	34209	2.1	92.5	34733	2.1	92.3	39903	1.7	89.1	40137	1.7	89.2
3106-1703	A5	30082	2.4	97.7	34209	2.1	96.6	34733	2.1	96.5	39903	1.7	94.8	40137	1.7	94.7
3107-1703	A5	24226	2.7	98.7	26074	3.4	98.0	26133	3.6	97.9	27946	2.8	97.5	28352	3.1	97.5
3107-2019	A5	24226	2.7	98.7	26074	3.4	98.0	26133	3.6	97.9	27946	2.8	97.5	28351	3.1	97.5
3108-1547	A5	33562	1.7	92.8	40090	1.5	88.8	40436	1.5	88.6	49960	1.2	80.7	50095	1.2	80.3
3109-2020	A5	25497	1.9	95.8	31288	2.1	94.1	31468	2.1	94.1	42595	1.5	88.1	43202	1.4	86.9
3110-1550	A5	33562	1.7	94.1	40090	1.5	89.5	40436	1.5	88.6	49402	1.2	81.9	49532	1.2	81.8
3110-3108	A5	33562	1.7	97.3	40090	1.5	95.8	40436	1.5	95.7	49402	1.2	91.6	49532	1.2	91.5
3111-1860	A5	25497	1.9	98.6	31288	2.1	97.3	31468	2.1	97.3	42595	1.5	93.6	43202	1.4	93.5
3111-3109	A5	25497	1.9	98.6	31288	2.1	97.3	31468	2.1	97.3	42595	1.5	93.6	43202	1.4	93.5



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3112-1702	A5	26080	1.5	98.8	33744	1.3	97.6	33882	1.3	97.5	46169	0.9	92.7	45940	0.9	92.6
3113-1702	A5	22335	1.6	99.2	31625	1.8	97.9	31727	1.7	97.9	47028	1.2	93.2	47147	1.2	93.2
3114-1702	A5	26080	1.5	98.8	33744	1.3	97.6	33882	1.3	97.5	46169	0.9	92.7	45940	0.9	92.6
3114-2007	A5	26080	1.5	96.6	33744	1.3	95.0	33882	1.3	94.9	46169	0.9	87.3	45940	0.9	87.3
3115-1701	A5	21566	1.8	99.1	28914	1.4	97.8	28862	1.4	97.9	39885	1.0	95.3	39084	1.0	95.3
3115-2011	A5	21566	1.8	99.1	28914	1.4	97.8	28862	1.4	97.9	39885	1.0	88.5	39084	1.0	88.7
3116-1701	A5	19254	1.7	99.4	25943	1.6	98.6	26070	1.5	98.6	39310	1.1	95.9	39078	1.1	95.9
3116-2022	A5	19254	1.7	97.2	25943	1.6	95.7	26070	1.5	95.6	39310	1.1	92.0	39078	1.1	92.0
3117-1557	A5	21566	1.8	96.4	28914	1.4	94.6	28862	1.4	94.7	39885	1.0	90.5	39084	1.0	90.7
3117-1701	A5	21566	1.8	99.1	28914	1.4	97.8	28862	1.4	97.9	39885	1.0	95.3	39084	1.0	95.3
3118-1701	A5	19254	1.7	99.4	25943	1.6	98.6	26070	1.5	98.6	39310	1.1	95.9	39078	1.1	95.9
3118-2017	A5	19254	1.7	99.4	25943	1.6	98.6	26070	1.5	98.6	39310	1.1	95.9	39078	1.1	95.9
3119-1559	A5	16114	2.4	99.5	29072	1.5	97.5	28776	1.5	97.5	32830	1.4	93.6	32169	1.2	94.2
3119-2075	A5	16114	2.4	86.2	29072	1.5	86.6	28776	1.5	86.6	32830	1.4	78.8	32169	1.2	78.3
3120-2018	A5	22404	1.6	96.4	31325	2.3	94.1	31548	2.4	94.0	37588	1.4	91.4	37564	1.4	91.4
3121-1702	A5	22335	1.6	99.2	31625	1.8	97.9	31727	1.7	97.9	47028	1.2	93.2	47147	1.2	93.2



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3121-2021	A5	22335	1.6	99.2	31625	1.8	97.9	31727	1.7	97.9	47028	1.2	81.1	47147	1.2	81.0
3122-1529	V10 Brickhill Road	19999	5.3	83.5	24639	2.5	83.6	24946	2.6	83.5	36959	0.5	79.0	36970	0.8	78.9
3122-2075	V10 Brickhill Road	6308	5.7	65.0	8966	0.6	65.0	9021	0.6	65.0	14245	0.4	65.0	14074	0.4	65.0
3123-2075	Kelly's Kitchen Roundabout	15925	2.6	35.2	16538	2.2	38.5	16580	2.2	38.6	16310	1.7	37.2	16620	1.7	37.0
3123-3122	V10 Brickhill Road	9450	5.1	41.7	10447	4.1	40.8	10635	4.3	40.7	14876	0.7	39.7	15055	1.2	39.6
3124-2075	Kelly's Kitchen Roundabout	0	0.0	0.0	9389	0.8	27.9	9380	0.8	27.9	10177	1.4	26.6	9770	1.0	25.7
3124-3123	Kelly's Kitchen Roundabout	11805	3.7	34.8	9102	3.3	35.6	9273	3.6	35.5	12405	0.5	31.8	12634	1.1	32.1
3125-3123	A5	15410	3.3	99.2	20309	2.7	98.5	20377	2.7	98.5	20908	1.8	97.9	21204	1.7	97.9
3126-3124	Kelly's Kitchen Roundabout	15093	3.0	33.6	12560	1.2	34.7	12953	1.1	34.6	16443	0.8	33.8	17166	0.9	33.3
3127-3124	A4146	11350	3.7	86.8	12953	2.5	49.8	12961	2.7	49.9	14139	1.2	49.9	13921	1.4	49.0
3127-3126	A4146	12842	2.5	56.4	14418	2.1	40.1	14394	2.2	40.1	16358	1.5	38.2	16919	1.6	38.1
3128-1677	V4 Watling Street	9855	1.9	60.0	14986	1.3	60.0	15394	1.2	60.0	21960	1.0	60.0	22781	1.0	60.0
3128-3126	V4 Watling Street	4971	2.3	45.0	8675	1.3	45.0	8780	1.3	45.0	10557	1.4	45.0	11339	1.4	45.0
3129-2075	Kelly's Kitchen Roundabout	8042	5.3	36.8	9293	1.1	38.1	9643	1.0	38.1	12615	0.7	36.0	12920	0.7	36.0
3129-3120	A5	22404	1.6	99.1	31325	2.3	97.4	31548	2.4	97.4	37588	1.4	95.5	37564	1.4	95.4



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3129-3124	Kelly's Kitchen Roundabout	0	0.0	0.0	12336	2.8	26.8	12322	2.7	26.7	12910	2.2	25.5	12891	2.0	25.4
3129-3126	Kelly's Kitchen Roundabout	22967	2.9	38.6	18303	1.8	36.3	18566	1.9	36.2	22215	1.0	33.7	22579	1.1	33.6
3129-3128	V4 Watling Street	4885	1.6	36.7	6311	1.2	35.0	6614	1.1	34.9	11403	0.5	33.0	11442	0.6	33.0
3356-1358	V6 Grafton Gate	17528	2.0	28.2	19863	1.6	27.2	19817	1.6	27.2	16015	1.6	26.9	15689	1.6	26.9
3356-1657	V6 Grafton Gate	26698	1.6	39.3	28733	1.4	39.3	28766	1.4	39.3	20934	1.4	39.4	20895	1.4	39.3
3356-2356	H6 Childs Way	9169	0.9	37.2	8869	1.0	37.1	8949	0.9	37.1	4920	0.8	37.2	5208	0.8	37.2
3580-3100	A422 Stratford Road	27597	3.3	81.9	30731	2.9	80.3	31149	3.2	80.1	38309	1.7	77.1	38366	2.1	76.9
4021-4007	Sheep Tick End	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
4026-4025	Highfield Crescent	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
4027-4007	Bedford Road	1625	3.3	63.4	12715	3.5	63.3	12521	3.4	63.3	16799	4.3	63.2	16398	4.0	63.2
4027-4025	Bedford Road	1625	3.3	60.0	12715	3.5	59.0	12521	3.4	59.0	16799	4.3	58.5	16398	4.0	58.5
4028-4027	Hill Crescent	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
4029-4007	Bedford Road	1625	3.3	63.1	12715	3.5	62.8	12521	3.4	62.8	16799	4.3	62.7	16398	4.0	62.7
4031-4029	Bedford Road	1625	3.3	63.4	12715	3.5	62.5	12521	3.4	62.4	16799	4.3	62.5	16398	4.0	62.5
4034-4033	M1 Slip Road J13	9618	8.7	67.9	12123	7.5	60.0	11843	7.8	61.0	12978	8.3	54.4	12575	7.8	55.0



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4035-4033	M1 Slip Road J13	14268	8.5	74.2	13444	3.8	73.6	13385	3.9	73.6	12086	4.2	72.2	12367	4.2	69.2
4035-4034	M1 Mainline	49537	20.2	106.4	63147	16.7	103.0	64711	16.8	102.7	74425	15.0	91.2	74257	15.6	89.5
4104-4005	Bedford Road	4482	1.4	47.4	4830	1.4	47.3	4861	1.4	47.3	6789	2.4	47.1	6886	2.1	47.1
4104-4016	Bedford Road	4907	1.1	46.1	10152	0.6	45.5	10317	0.6	45.4	14810	0.4	44.9	14785	0.4	44.9
4104-4036	Bedford Road	9388	1.2	63.5	14981	0.9	63.4	15177	0.8	63.4	21595	1.1	62.9	21668	1.0	62.9
4105-4033	Bedford Road	14388	10.8	38.6	23611	7.0	38.6	23470	7.3	36.0	23456	6.4	41.1	22866	6.7	38.4
4108-4025	Bedford Road	1625	3.3	55.8	12715	3.5	58.2	12567	3.4	58.4	16799	4.3	54.3	16398	4.0	54.4
4108-4105	Bedford Road	14319	10.8	53.5	17920	8.6	56.3	17799	8.9	56.4	17120	8.1	57.2	16676	8.6	57.2
4109-4008	Station Road	1521	3.8	70.3	4917	6.6	68.8	4765	6.1	68.5	7418	7.9	68.9	7045	7.6	68.6
4154-1631	Newport Road	8516	4.8	46.0	13410	1.4	45.0	13627	1.6	45.0	16957	1.0	42.8	17272	1.0	42.8
4155-4154	Kingston Roundabout	23210	5.6	37.7	27515	4.3	37.5	27409	4.3	37.5	30834	2.8	34.9	30784	2.9	34.9
4156-2611	Newport Road	14467	0.9	65.0	16912	0.7	50.5	16915	0.7	50.6	23487	0.6	47.5	23220	0.6	47.5
4156-4155	Kingston Roundabout	25725	6.0	44.6	31504	4.2	43.0	31654	4.3	42.9	33435	3.2	43.2	33467	3.1	43.1
4157-4156	Kingston Roundabout	25807	6.1	39.0	33162	4.1	38.4	33102	4.2	38.4	38813	2.8	37.4	38876	2.8	37.4
4158-1446	H8 Standing Way	32632	5.9	86.9	40443	4.4	85.7	40047	4.5	85.9	43622	2.7	85.9	43319	2.8	84.8
4158-4154	Kingston Roundabout	24763	5.4	60.6	33620	3.4	59.7	33360	3.4	59.8	35437	2.4	59.2	35737	2.4	59.2



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4158-4157	Kingston Roundabout	24980	6.4	40.4	35072	3.8	39.1	35015	3.9	39.1	40479	2.7	38.2	40130	2.8	38.1
4159-1481	H9 Groveway	22361	5.2	81.5	26884	4.3	79.2	26885	4.3	79.3	34042	3.3	77.0	34657	3.1	76.8
4159-4157	H9 Groveway	22361	5.2	67.4	26884	4.3	64.2	26885	4.3	64.2	34042	3.3	63.8	34657	3.1	63.9
4160-1630	Newport Road	4235	5.8	45.6	2266	5.4	44.3	1905	6.5	44.3	5515	2.0	43.5	5349	2.1	43.6
4162-1329	Pineham Roundabout	15848	4.1	28.0	16910	4.3	28.0	19526	3.9	27.9	19485	3.0	28.0	22603	3.2	27.9
4163-1328	V11 Tongwell Street	21377	2.2	83.6	25929	2.1	82.7	31989	2.3	80.3	39796	1.3	74.0	41080	2.0	73.1
4164-1329	V11 Tongwell Street	12210	0.8	35.9	13125	0.7	35.2	13433	0.9	33.2	14925	0.5	31.3	14276	0.7	29.9
4164-1373	V11 Tongwell Street	28355	1.1	81.0	29818	1.0	80.4	29037	1.2	80.2	32992	0.7	75.9	30957	0.8	78.0
4164-4162	V11 Tongwell Street	10131	1.5	54.0	10369	1.4	54.0	9446	1.8	54.0	10951	0.9	54.0	10117	1.0	54.0
4165-4162	Pineham Roundabout	10200	1.5	22.7	10548	1.4	22.6	12351	1.9	22.6	11647	0.9	22.3	14123	1.2	22.2
4165-4163	V11 Tongwell Street	10301	2.4	43.1	12687	1.9	41.7	15541	2.3	40.7	19559	1.3	37.5	20583	1.3	35.9
4166-1329	Pineham Roundabout	10890	1.8	27.6	12881	2.1	27.6	14289	1.9	27.5	15904	1.4	27.4	14970	2.1	27.4
4166-4163	V11 Tongwell Street	9063	1.9	51.4	11254	2.2	51.4	16537	2.0	51.4	15547	1.3	51.4	16065	2.2	51.4
4166-4165	Pineham Roundabout	15818	2.6	27.5	15097	2.6	27.4	14130	2.8	27.4	12540	2.0	27.4	14621	2.0	27.4
4167-1501	The Roman Roundabout	19987	1.9	27.9	23627	1.8	27.5	23605	1.8	27.5	27917	1.4	26.1	27692	1.4	26.1
4167-2501	Watling Street	6832	1.8	39.9	7752	1.7	39.6	7750	1.8	39.6	11917	1.1	36.9	12087	1.1	36.8



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4168-1673	Selkirk Drive	6509	1.6	40.2	8302	1.3	39.9	8596	1.2	40.0	10946	0.9	38.2	10972	0.9	38.4
4169-1675	Top Fair Furlong	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
4171-1394	V6 Grafton Street	20894	1.4	96.9	24218	1.1	97.0	23702	1.2	97.0	36534	0.8	95.8	35953	0.8	95.7
4171-1395	V6 Grafton Street	23781	1.4	86.5	27764	1.1	86.6	27291	1.2	86.9	41216	0.8	84.7	40805	0.8	84.3
4304-4016	Arundel Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
4358-4031	Woburn Road	1625	3.3	47.8	12715	3.5	47.5	12521	3.4	47.5	16799	4.3	47.4	16398	4.0	47.4
4404-4017	Lower Shelton Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
4414-4413	Parkway	6640	0.8	45.4	7084	0.8	45.3	7084	0.9	45.3	12383	0.5	44.1	12403	0.5	44.2
4418-4414	Parkway	0	0.0	0.0	197	0.0	48.0	195	0.0	48.0	16	0.0	48.0	17	0.0	48.0
4422-2068	Church Street	725	5.4	38.2	975	5.7	38.1	961	6.0	38.1	4089	2.0	38.2	4067	1.6	38.2
4443-1605	Oakhill Lane	73	0.9	48.0	1589	0.0	30.7	1626	0.0	30.7	1161	0.0	29.4	1196	0.0	29.0
4445-1562	Stratford Road	4369	1.6	64.2	4700	1.7	64.4	4808	2.2	64.3	13517	1.0	61.6	13622	1.1	61.4
4477-4476	Unnamed Road	276	1.1	48.0	99	0.0	48.0	4444	0.0	45.8	185	0.0	48.0	6455	0.0	45.5
4478-4476	Unnamed Road	413	1.1	48.0	149	0.0	48.0	0	0.0	0.0	275	0.0	48.0	0	0.0	0.0
4481-4476	Unnamed Road	413	1.1	48.0	149	0.0	48.0	0	0.0	0.0	275	0.0	48.0	0	0.0	0.0
4482-1932	Severn Drive	1429	1.4	39.8	1408	1.5	39.7	1415	1.5	39.8	2623	0.8	38.9	2677	0.8	38.7



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4494-1235	Vespasian Road	688	0.5	45.0	2868	0.0	35.3	2869	0.0	35.2	1841	0.1	32.8	1921	0.1	32.7
4495-1279	V4 Watling Street	23500	1.5	77.7	15872	0.9	65.7	16033	1.1	65.6	19239	0.4	62.9	22184	0.4	62.8
4495-1280	V4 Watling Street	23328	1.5	70.9	15261	0.9	63.1	15367	1.2	63.2	25306	0.5	62.0	27053	0.5	62.1
4497-1705	Longhorn Drive	8	1.0	43.8	7028	0.0	28.8	7088	0.0	28.8	2757	0.0	28.8	2836	0.0	28.7
4497-4442	Shorthorn Drive	8	1.0	48.0	2662	0.0	29.9	2743	0.0	29.9	1984	0.0	30.5	2011	0.0	30.5
4497-4447	Longhorn Drive	0	0.0	0.0	4502	0.0	31.7	4482	0.0	31.7	812	0.0	31.8	863	0.0	31.8
4498-1278	H4 Dansteed Way	19465	1.0	79.5	20047	0.7	79.4	22312	0.6	78.9	28345	0.3	74.7	30421	0.4	73.9
4499-2278	H4 Dansteed Way	19656	1.0	76.7	22519	0.6	73.6	24736	0.6	73.0	30008	0.3	70.1	32164	0.3	69.2
4499-4498	H4 Dansteed Way Roundabout	19429	1.0	73.1	19712	0.7	72.4	21980	0.6	72.2	28012	0.3	70.4	30192	0.4	68.9
4500-4498	H4 Dansteed Way Roundabout	28	0.5	30.0	264	0.0	29.8	261	0.0	29.8	262	0.0	29.8	180	0.0	29.8
4500-4499	H4 Dansteed Way Roundabout	240	1.2	33.4	3172	0.1	32.5	3201	0.1	34.2	1574	0.1	34.9	1554	0.2	35.4
4501-4500	Randall Avenue	268	1.1	48.0	3436	0.1	48.0	3462	0.1	48.0	1836	0.1	48.0	1734	0.1	48.0
4508-4033	Bedford Road	13123	14.8	40.7	18987	8.7	45.5	18841	9.0	45.5	20851	8.1	44.4	20259	9.0	45.0
4512-1468	V7 Saxon Street	24093	2.0	60.0	25409	1.8	59.1	25044	1.8	59.1	22731	1.3	53.3	24117	1.3	53.4
4513-4512	Stadium Way West	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0



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4514-4336	Salford Road	10665	0.3	37.0	13288	0.4	36.8	12779	0.4	36.8	20381	0.4	36.1	20688	0.3	36.0
4515-1505	V7 Saxon Street	22253	2.0	54.4	23430	1.8	54.0	23047	1.8	54.1	19760	1.4	53.4	21242	1.3	53.2
4515-4512	V7 Saxon Street	24093	2.0	57.5	25409	1.8	56.9	25044	1.8	57.0	22731	1.3	55.3	24117	1.3	55.1
4516-1006	V7 Saxon Street	21258	2.0	62.4	22475	1.8	62.1	22090	1.8	62.1	18405	1.4	61.5	20130	1.3	61.6
4516-1505	V7 Saxon Street	21258	2.0	64.0	22475	1.8	64.0	22090	1.8	64.0	18405	1.4	64.0	20130	1.3	64.0
4517-4516	Stadium Way	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
4518-1006	V7 Saxon Street	22112	2.0	51.9	23475	1.8	51.2	23090	1.8	51.3	19205	1.4	50.5	20880	1.2	50.4
4518-1506	V7 Saxon Street	24506	1.9	50.8	26060	1.8	49.9	25614	1.8	49.9	23805	1.3	42.3	25254	1.2	42.0
4520-4518	Bramley Road	2707	1.1	42.4	2849	1.3	41.5	2886	1.3	42.0	5177	1.0	39.8	4937	1.0	38.8
4522-4521	M1 Slip Road J13	10033	0.1	100.7	14427	0.1	98.4	14449	0.1	98.4	16103	0.1	97.5	15883	0.1	97.6
4526-1528	V10 Brickhill Road	17480	5.1	38.7	16306	2.8	37.9	16168	3.0	37.9	20274	0.7	36.7	19971	1.2	36.8
4527-1524	Simpson Road	2954	2.4	37.1	4706	1.6	35.6	5031	1.6	35.8	12068	1.2	34.9	12377	1.2	35.1
4527-1525	Simpson Road	2954	2.4	33.4	4706	1.6	32.1	5031	1.6	32.1	12068	1.2	30.1	12377	1.2	30.0
4533-4531	Tanfield Lane	451	0.0	29.4	1360	0.0	29.4	963	0.0	29.4	3608	0.0	29.4	3646	0.0	29.4
4536-4535	Warwick Avenue	6141	0.9	34.0	6683	0.0	34.5	6794	0.0	34.6	9131	0.0	34.9	9197	0.0	34.7
4537-1303	V6 Grafton Street	26449	1.4	92.8	34414	1.0	91.4	33394	1.1	91.4	36462	0.7	88.6	36554	0.6	88.4



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4537-1317	V6 Grafton Street	15151	1.9	99.6	20315	1.3	99.0	19819	1.4	99.1	19563	0.9	98.4	19752	0.9	98.4
4538-1341	Midsummer Boulevard	2631	34.9	23.9	4495	20.2	22.1	4619	22.1	22.1	5405	15.0	21.2	5577	16.7	21.3
4539-1610	Midsummer Boulevard	3840	17.6	29.5	7035	9.6	29.6	6804	11.6	29.5	10264	6.1	28.4	9712	7.7	28.1
4540-1644	Midsummer Boulevard	8104	13.8	31.8	9839	11.2	32.1	9711	12.6	32.1	15058	6.5	31.8	15235	7.2	31.8
4540-1941	Midsummer Boulevard	7055	1.2	33.0	8785	0.9	33.0	8538	1.0	33.0	13965	0.5	33.0	14023	0.6	33.0
4541-1644	Midsummer Boulevard	8397	13.1	30.7	9624	11.2	30.7	9434	12.7	30.7	14748	6.5	31.0	14614	7.3	31.0
4541-1942	Midsummer Boulevard	7353	0.8	33.0	8580	0.6	33.0	8272	0.8	33.0	13699	0.4	33.0	13444	0.4	33.0
4542-1943	Midsummer Boulevard	5105	0.7	33.0	5757	0.7	33.0	5758	0.7	33.0	10143	0.3	33.0	10007	0.4	33.0
4545-1656	Midsummer Boulevard	2631	34.9	30.5	4497	20.3	31.1	4623	22.3	31.1	5452	15.5	31.1	5639	17.2	31.1
4545-4538	Midsummer Boulevard	1718	0.4	33.0	3586	0.3	33.0	3594	0.3	33.0	4536	0.2	33.0	4601	0.4	33.0
4546-1656	Midsummer Boulevard	4034	21.3	28.8	7241	11.8	28.7	7013	13.9	28.8	10551	7.6	28.9	10010	9.2	29.0
4546-4539	Midsummer Boulevard	3179	0.5	33.0	6379	0.3	33.0	6032	0.3	33.0	9646	0.2	33.0	8984	0.4	33.0
4547-1361	Avebury Boulevard	4289	31.7	32.3	8860	15.2	32.0	8848	16.5	32.0	9820	12.0	30.7	9995	12.9	30.7
4547-1815	Avebury Boulevard	3619	19.2	36.1	8182	8.4	36.3	8111	9.2	36.3	9057	6.7	36.7	9168	7.3	36.5
4548-1312	V4 Watling Street	17874	1.0	68.0	18601	0.9	68.1	18651	0.9	68.2	27544	0.7	64.1	27267	0.7	64.0
4552-2053	Elder Gate	5370	2.0	33.5	5799	2.5	34.1	5732	2.4	34.1	8942	1.7	33.6	8848	1.6	33.6



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
4553-1527	V10 Brickhill Street	29789	4.3	71.9	19667	3.5	73.6	19218	3.8	73.6	13375	1.9	74.8	13623	2.6	74.7
4553-4526	V10 Brickhill Road	17497	5.2	38.7	16323	2.9	38.0	16186	3.1	38.0	20295	0.8	38.0	19992	1.2	37.9
4554-4553	Caldecotte Lake Drive	11915	1.7	37.1	11853	1.8	36.9	11857	1.8	36.9	19235	1.1	36.1	19192	1.1	36.1
4555-4008	Station Road	1448	2.8	40.3	2398	2.1	38.0	2392	2.1	38.0	2970	2.1	37.8	2980	2.1	37.8
4555-4023	Station Road	1448	2.8	36.7	2398	2.1	35.0	2392	2.1	35.0	2970	2.1	35.0	2980	2.1	35.0
4556-1562	Calverton Road	2499	0.7	39.7	3409	0.5	39.6	3539	0.5	39.6	9404	0.4	39.7	9619	0.4	39.7
4559-4336	Broughton Road	7541	0.2	39.7	10199	0.2	39.7	9743	0.2	39.7	13422	0.2	39.6	13310	0.2	39.5
4562-2069	Wavendon Road	3186	0.4	65.0	3210	0.8	65.1	3164	0.9	65.1	8114	0.6	64.6	8317	0.4	64.6
4562-4336	Wavendon Road	3186	0.4	38.9	3210	0.8	38.9	3164	0.9	38.9	8114	0.6	36.9	8317	0.4	36.6
4564-1676	Bedford Road	5785	2.6	62.0	10967	2.6	61.6	10650	3.5	61.6	14686	2.4	60.1	15321	2.7	60.1
4564-2068	Bedford Road	5785	2.6	39.8	10967	2.6	39.8	10650	3.5	39.8	14686	2.4	39.7	15321	2.7	39.7
4566-4413	Newport Road	6808	1.4	61.8	9176	1.0	61.4	9164	1.0	61.4	16751	0.7	58.9	16448	0.8	59.0
4567-2070	Newport Road	14234	0.9	60.1	14641	0.9	53.5	14654	0.9	53.4	23553	0.6	50.7	23273	0.7	50.8
4567-2611	Newport Road	14234	0.9	78.4	14641	0.9	54.5	14654	0.9	54.6	23553	0.6	50.5	23273	0.7	50.7
4579-2077	A4146	0	0.0	0.0	25852	2.4	67.7	25850	2.6	67.5	27739	1.5	65.0	27390	1.7	65.2
4579-3127	A4146	0	0.0	0.0	27372	2.3	54.5	27354	2.5	54.5	30497	1.4	47.0	30840	1.5	47.1



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		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
4579-4434	Eaton Leys	0	0.0	0.0	1828	0.0	40.4	1822	0.0	40.4	5956	0.0	36.9	6381	0.0	36.5
4581-1929	North Crawley Road	9342	2.2	34.8	10084	2.3	34.6	9456	2.6	35.0	16173	1.5	34.1	16750	1.7	34.2
4581-1935	North Crawley Road	4525	1.2	62.0	5374	1.6	61.6	4685	2.1	62.2	9805	1.4	61.3	9722	1.5	61.3
4582-4581	Howard Way	6021	2.6	36.8	6024	2.7	36.6	6049	2.7	36.8	10449	1.6	33.3	10919	1.6	33.4
4603-4005	Bedford Road	4482	1.4	45.6	4830	1.4	45.7	4861	1.4	45.7	6789	2.4	46.3	6886	2.1	46.3
4603-4010	Beancroft Road	6814	2.3	42.2	4418	0.4	41.3	4367	0.3	41.3	8092	0.2	40.1	8261	0.2	40.3
4603-4106	Unnamed Road	1039	2.4	45.9	2755	9.9	46.4	2842	8.5	46.1	3391	15.4	46.5	3319	14.0	46.3
4604-4203	M1 Mainline	54733	19.5	104.9	69634	16.4	106.4	70029	16.8	106.3	78940	13.5	105.7	79214	13.9	105.7
4604-4521	M1 Mainline	62627	19.4	104.5	78377	16.6	100.5	78630	17.0	100.4	88579	14.1	98.7	88292	14.3	98.8
4604-4522	M1 Slip Road J13	5445	13.5	91.1	6030	13.4	90.8	5932	13.9	90.8	6648	13.7	90.6	6261	13.4	90.8
4605-4203	M1 Mainline	68008	18.0	104.4	82176	15.7	105.8	82107	16.2	105.8	91901	13.2	104.9	91498	13.7	105.0
4606-4035	M1 Mainline	70214	17.7	96.5	82686	13.9	74.5	84163	14.1	73.9	92031	13.1	68.0	92265	13.6	67.9
4607-4022	A421	34277	5.1	96.5	35606	4.6	96.0	34731	4.7	96.1	36314	3.7	90.6	35518	3.3	91.8
4608-4508	A421	12198	10.8	26.6	13501	8.2	25.6	13756	8.6	25.5	13615	6.6	25.0	13490	7.1	24.9
4608-4522	M1 Slip Road J13	15478	4.8	54.1	20457	4.0	52.9	20382	4.1	52.9	22751	4.1	51.5	22144	3.9	51.7
4609-4608	A421	27662	7.5	38.1	33930	5.7	37.9	34109	6.0	37.9	36344	5.1	37.8	35608	5.2	37.8



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4610-4609	A421	26856	7.1	38.0	31709	6.1	38.2	31674	6.3	38.2	33347	5.7	38.0	32605	5.7	38.1
4611-4203	M1 Slip Road J13	9153	8.5	74.1	8643	8.8	74.6	8325	9.5	74.6	8932	8.6	74.3	8468	9.3	74.4
4611-4508	A421	8622	8.0	29.0	14049	7.2	28.4	14222	7.6	28.3	12855	6.4	28.3	13475	6.6	28.1
4611-4610	A421	17775	8.3	37.9	22692	7.8	36.5	22547	8.3	36.5	21787	7.3	36.3	21943	7.7	36.3
4801-4023	Badgers Rise	5268	4.7	45.4	7368	3.6	45.4	7378	3.6	45.4	7892	3.5	45.4	7901	3.5	45.4
4804-4105	Salford Road	0	0.0	68.0	5632	2.1	68.0	5593	2.1	68.0	6336	1.8	68.0	6190	1.8	68.0
4804-4108	Salford Road	0	0.0	44.3	5632	2.1	42.2	5593	2.1	42.3	6336	1.8	41.9	6190	1.8	41.9
4805-4008	A507 Ridgmont Bypass	11899	11.2	56.7	14986	10.5	56.4	14994	10.6	56.4	15186	11.4	56.0	14584	11.8	56.1
4805-4023	Salford Road	3822	5.4	38.0	4972	4.2	37.9	4988	4.3	38.0	4925	4.3	37.9	4924	4.4	37.9
4805-4108	Salford Road	15720	9.8	45.0	19957	8.9	42.5	19982	9.0	42.7	20109	9.7	40.7	19506	9.9	40.8
4820-4042	A421	63610	6.9	96.4	72227	5.1	95.0	71802	5.3	95.0	77562	4.4	93.3	78149	4.3	92.9
4821-4017	Lower Shelton Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
4821-4019	Beancroft Road	5324	3.0	62.5	7422	3.0	61.8	8498	3.2	61.4	11817	3.3	59.7	13091	3.5	58.6
4821-4820	A421	1951	3.5	71.4	2398	4.5	70.6	3158	5.4	70.8	4552	5.1	70.5	5285	5.0	70.5
4822-4603	Beancroft Road	11305	2.1	34.5	10654	3.2	34.3	10791	2.8	34.3	13551	3.6	34.0	13619	3.4	34.0
4822-4820	A421	2962	3.3	63.1	5123	7.1	64.2	5209	6.1	63.9	5927	9.7	62.9	5848	9.9	62.7



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4822-4821	Beacroft Road	8319	3.0	46.1	7680	2.1	46.6	8335	2.1	46.6	11992	1.6	46.2	12632	1.9	46.2
4823-4820	A421	58032	7.2	95.3	63687	5.0	94.3	62299	5.2	94.4	65660	3.8	93.5	65500	3.6	93.3
4823-4821	A421	4751	3.0	60.8	2433	1.2	60.9	2433	1.2	60.9	3667	0.6	60.6	3623	0.8	60.6
4823-4822	A421	4396	1.2	72.2	3780	0.8	72.1	3915	0.8	72.2	4206	0.7	71.6	4141	0.7	71.5
4824-4823	A421	68418	6.4	96.0	70743	4.6	95.7	69509	4.7	95.8	74602	3.4	94.8	74318	3.3	95.0
4825-4824	A421	68418	6.4	96.4	70743	4.6	96.0	69510	4.7	96.2	74602	3.4	95.3	74318	3.3	95.4
4826-4022	A421	34141	7.8	94.2	35136	4.5	94.0	34779	4.8	94.1	38288	3.2	91.8	38800	3.3	91.5
4826-4607	A421	34277	5.1	96.5	35606	4.6	96.0	34731	4.7	96.1	36314	3.7	95.4	35518	3.3	95.8
4826-4825	A421	68418	6.4	96.4	70742	4.6	96.0	69510	4.7	96.2	74602	3.4	95.3	74318	3.3	95.4
4827-4022	A421	5571	6.3	73.0	7031	5.3	72.3	6546	5.9	72.5	7245	6.0	71.6	6891	5.8	72.0
4828-4022	A421	13537	11.1	99.6	9325	2.8	99.8	9244	2.8	99.8	12897	2.2	99.7	12517	2.5	99.8
4829-4022	A421	48548	5.2	89.8	53416	4.8	87.4	52815	4.9	87.7	53462	3.4	87.4	53957	3.1	87.1
4830-4558	Salford Road	4576	4.0	64.8	5198	3.4	62.2	4999	3.5	62.5	9326	2.7	66.2	9441	2.1	66.5
4830-4827	A421	5571	6.3	91.4	7031	5.3	90.6	6546	5.9	90.8	7245	6.0	89.8	6891	5.8	90.2
4832-4610	A421	33132	3.5	74.3	34996	3.5	68.2	34768	3.7	68.3	28842	3.1	64.6	30593	2.8	64.4
4832-4829	A421	21727	5.9	47.8	26648	5.3	47.2	26456	5.5	47.2	25003	4.4	46.6	26154	4.2	46.7



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4833-4829	A421	28193	5.1	19.2	28227	4.6	19.1	27995	4.6	19.1	27388	3.6	19.2	27403	3.3	19.1
4833-4832	A421	30809	5.5	21.3	35394	4.4	21.4	35357	4.5	21.4	35702	3.7	21.4	35798	3.4	21.4
4953-4033	Salford Road	18876	9.8	55.0	15247	5.0	52.1	14955	5.2	52.1	14580	6.1	49.7	14169	6.0	49.9
4953-4828	A421	13537	11.1	86.3	9325	2.8	87.6	9244	2.8	87.7	12897	2.2	86.0	12517	2.5	85.9
4953-4830	Salford Road	8179	6.5	56.0	8337	6.5	55.3	7927	7.0	55.5	10602	6.4	56.0	10611	5.6	56.7
5020-1330	H5 Portway	36523	3.8	80.0	38614	3.8	79.4	37919	3.8	78.9	42731	2.8	74.9	41897	2.9	74.4
5021-5020	Northfield Roundabout	28021	4.4	38.4	28361	3.9	38.0	29730	4.0	37.9	31489	2.8	37.1	32782	2.7	36.1
5022-1447	Northfield Roundabout	38557	4.0	37.7	42162	3.8	34.9	41166	3.9	34.0	45843	2.8	31.2	45854	3.1	30.6
5022-1723	A509 Portway	37013	3.9	69.7	40463	3.7	68.0	39300	3.9	68.0	42422	2.9	66.4	41653	3.2	66.9
5022-5021	Northfield Roundabout	1546	4.5	18.8	1704	3.9	18.8	1871	3.6	18.8	3506	1.7	18.4	4242	1.4	18.4
5023-1447	Northfield Roundabout	36619	4.2	43.5	42645	3.7	43.3	41196	3.9	43.3	44921	2.9	43.2	44862	3.1	43.2
5024-5020	Northfield Roundabout	29275	5.0	24.8	30718	4.8	24.3	30747	4.8	24.3	32901	3.5	23.5	32670	3.7	23.0
5024-5023	Northfield Roundabout	19722	3.7	19.4	22210	3.7	18.8	20432	3.8	19.2	23410	2.7	17.8	23232	3.0	17.9
5025-1375	H6 Childs Way	30228	5.9	97.7	33274	4.9	96.9	35595	4.9	96.9	36061	3.6	96.7	36348	3.8	96.5
5025-5023	H6 Childs Way	19188	4.7	99.2	23205	3.7	98.7	23580	4.0	98.6	24428	3.0	98.5	24563	3.3	98.3
5025-5024	H6 Childs Way	11040	7.8	55.0	10069	7.5	54.3	12016	6.7	54.1	11633	4.9	53.0	11785	5.0	52.9



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		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
5100-4155	H8 Standing Way	34726	8.2	87.4	46635	5.5	86.6	46476	5.5	86.8	47120	4.0	85.9	47073	4.1	85.9
5106-4533	Ambergate	6385	0.0	26.7	6437	0.0	26.8	5248	0.0	26.9	8243	0.0	26.6	8236	0.0	26.7
5108-5106	Newport Road	12617	1.0	38.5	4942	2.4	38.1	5037	2.4	38.2	9426	1.2	38.1	9405	1.2	38.1
5132-4431	Trafalgar Drive	2184	0.5	48.0	2374	0.4	48.0	2384	0.4	48.0	4198	0.3	48.0	4170	0.3	48.0
5132-4433	Broughton Grounds Lane	4354	0.7	48.0	4821	0.0	48.0	4710	0.0	48.0	5323	0.0	48.0	5035	0.0	48.0
5160-1447	Newport Road	12980	1.4	29.7	14184	1.1	29.3	12744	1.3	29.5	16931	0.9	28.2	17023	0.8	28.1
5200-1330	H5 Portway	35901	3.4	97.9	38451	3.4	97.6	38447	3.4	97.5	43399	2.4	92.1	43295	2.5	92.3
5200-4162	H5 Portway	17920	4.1	66.6	19000	4.4	64.6	18878	4.2	62.8	21572	3.1	57.2	21211	3.4	55.4
5200-4165	H5 Portway	18079	3.2	99.4	19551	2.8	99.2	19670	2.9	99.2	21937	2.1	98.7	22194	2.0	98.7
5201-1329	H5 Portway	19491	3.2	99.3	19467	3.3	99.3	21191	3.3	99.1	20805	2.5	98.7	24608	2.4	98.2
5201-4166	H5 Portway	15888	2.8	56.6	15358	2.7	55.4	18756	2.7	54.3	14223	1.9	52.6	18160	2.1	51.8
5202-1326	H5 Portway	35380	3.0	75.2	34825	3.1	74.5	39947	3.0	75.7	35028	2.2	72.2	42768	2.3	73.0
5202-5201	H5 Portway	35379	3.0	99.4	34826	3.1	99.3	39947	3.0	99.1	35028	2.2	99.0	42767	2.3	98.5
5203-1326	H5 Portway	33398	2.3	78.6	36660	2.1	77.9	40089	2.2	76.5	38471	1.8	75.6	40194	1.9	75.8
5204-1324	H5 Portway	33398	2.3	79.2	36660	2.1	79.4	40089	2.2	80.0	38471	1.8	80.0	40195	1.9	79.6
5204-5203	H5 Portway	33398	2.3	99.6	36660	2.1	99.4	40089	2.2	99.3	38471	1.8	98.9	40195	1.9	98.8



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
5205-1324	H5 Portway	23259	1.7	78.5	26600	1.4	77.5	27755	1.3	77.1	27530	1.2	75.9	29207	1.2	76.6
5206-1322	H5 Portway	23258	1.7	79.0	26599	1.4	79.4	27756	1.3	79.8	27530	1.2	79.2	29207	1.2	78.4
5206-5205	H5 Portway	23259	1.7	99.8	26600	1.4	99.7	27755	1.3	99.7	27530	1.2	99.4	29207	1.2	99.2
5207-1322	H5 Portway	16334	1.4	75.0	17475	1.2	77.3	18807	1.1	76.8	23931	0.7	77.6	21319	0.7	77.7
5207-3096	H5 Portway	16334	1.4	99.9	17475	1.2	99.9	18806	1.1	99.9	23932	0.7	99.7	21319	0.7	99.7
5208-5160	Newport Road	12923	0.9	36.5	14348	0.9	32.7	12829	1.0	33.1	18357	0.6	32.7	18486	0.6	32.7
5300-1375	H6 Childs Way	29538	5.9	91.1	32676	4.8	89.7	35029	4.9	89.8	37167	3.4	89.5	37604	3.7	89.3
5302-1372	H6 Childs Way	29938	1.5	90.7	34679	1.4	88.6	38956	1.1	89.1	41912	0.9	81.8	40976	1.1	81.6
5303-1370	H6 Childs Way	30890	1.5	97.9	39740	1.2	96.9	40043	1.2	97.0	47549	0.8	96.0	48625	1.0	95.8
5303-1372	H6 Childs Way	30890	1.5	80.1	39740	1.2	80.8	40043	1.2	80.1	47549	0.8	79.3	48625	1.0	79.2
5304-1369	H6 Childs Way	30373	1.5	77.8	39418	1.2	75.8	39968	1.2	76.2	48213	0.8	74.4	49312	0.9	74.0
5304-1370	H6 Childs Way	30373	1.5	98.5	39418	1.2	97.9	39968	1.2	97.8	48213	0.8	96.8	49312	0.9	96.7
5305-1369	H6 Childs Way	29948	1.0	81.3	38158	0.7	82.1	38701	0.8	82.0	44975	0.5	81.5	45219	0.6	81.1
5306-1366	H6 Childs Way	29948	1.0	77.7	38159	0.7	75.5	38701	0.8	75.6	44975	0.5	73.6	45219	0.6	73.7
5306-5305	H6 Childs Way	29948	1.0	99.7	38159	0.7	99.1	38701	0.8	99.1	44975	0.5	98.6	45219	0.6	98.6
5307-1366	H6 Childs Way	23132	0.9	80.5	26446	0.8	79.9	27693	0.8	79.8	36840	0.5	79.3	38598	0.7	79.7



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5308-1365	H6 Childs Way	23132	0.9	77.6	26447	0.8	76.6	27693	0.8	76.8	36839	0.5	74.9	38598	0.7	74.0
5308-5307	H6 Childs Way	23132	0.9	99.8	26447	0.8	99.6	27693	0.8	99.6	36840	0.5	99.3	38598	0.7	99.2
5310-5301	H6 Childs Way	11703	1.4	65.6	13560	1.4	64.7	16379	0.9	63.9	15827	0.7	56.2	15408	0.8	55.9
5311-5300	H6 Childs Way	10375	8.2	77.3	9496	7.8	77.2	11474	6.9	77.1	12760	4.4	77.0	13062	4.6	77.0
5311-5310	Fox Milne Roundabout	11797	6.7	23.6	13914	5.1	23.4	16641	4.5	23.3	19972	2.7	22.3	20271	2.8	22.2
5312-5300	H6 Childs Way	19191	4.7	76.2	23209	3.7	75.3	23584	4.0	75.1	24440	3.0	73.5	24574	3.3	73.4
5312-5311	Fox Milne Roundabout	12326	2.1	28.2	15529	1.6	28.1	15761	1.8	28.1	20025	0.9	28.0	19551	1.0	28.0
5313-5301	H6 Childs Way	16114	1.6	82.1	19133	1.6	81.7	20211	1.5	81.7	22903	1.1	81.3	22060	1.5	81.3
5313-5310	Fox Milne Roundabout	14626	5.3	28.4	15858	4.2	28.4	16632	4.7	28.4	22572	2.6	28.4	23477	2.6	28.4
5313-5312	Fox Milne Roundabout	12132	1.7	23.8	15476	1.6	23.6	15985	1.6	23.6	15662	1.3	23.6	14882	1.6	23.6
5314-1373	V11 Tongwell Street	30709	1.4	75.2	32345	1.3	73.9	32496	1.5	72.4	37773	0.9	68.0	37385	0.9	67.3
5314-5310	V11 Tongwell Street	14531	1.0	68.0	15508	0.9	68.0	16382	1.0	68.0	18471	0.6	68.0	18656	0.7	68.0
5314-5311	V11 Tongwell Street	9665	2.1	42.5	9977	1.9	41.3	9223	2.4	41.0	11292	1.2	36.8	10800	1.3	36.9
5315-5312	V11 Tongwell Street	17077	5.0	54.0	20470	3.8	54.0	20521	4.3	54.0	25849	2.5	54.0	26269	2.6	54.0
5315-5313	V11 Tongwell Street	16684	4.8	40.0	17229	4.0	39.2	18445	4.4	39.1	27083	2.2	35.1	28025	2.3	33.2
5316-1378	V1 Snelshall Street	12311	1.6	75.2	20276	1.3	74.3	20828	1.3	74.0	31198	0.7	69.8	30877	0.7	69.8



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5316-4003	V1 Snelshall Street	15817	2.5	76.3	20797	1.9	72.4	21398	1.8	72.2	30230	0.8	69.4	29842	0.8	69.2
5317-5316	Guildford Avenue	8564	2.1	33.4	10455	1.3	31.9	10263	1.3	31.8	9430	0.4	28.9	9469	0.4	28.9
5318-5317	Bridgnorth Drive	5219	0.4	36.7	7244	0.3	36.5	7234	0.3	36.5	10561	0.2	36.2	10553	0.2	36.2
5405-1252	H3 Monks Way	16304	1.1	83.8	24706	0.8	81.3	24340	1.0	81.3	27872	0.7	73.9	27965	0.8	74.1
5405-1254	H3 Monks Way	6954	1.1	78.0	11759	0.8	78.0	11763	0.9	78.0	15066	0.7	78.0	15141	0.8	78.0
5405-2000	H3 Monks Way	5893	1.1	66.9	7706	0.8	66.3	7414	1.0	66.3	6896	0.8	53.3	6893	0.7	53.1
5406-1545	V5 Great Monks Street	12810	0.8	32.9	15943	0.7	31.6	15720	0.7	31.6	18331	0.5	28.6	18199	0.5	28.4
5406-2002	V5 Great Monks Street	8078	0.8	50.0	10376	0.8	50.0	10380	0.8	50.0	11254	0.6	50.0	11259	0.6	50.0
5407-1556	A5	11892	1.7	27.6	14123	1.6	27.4	14114	1.6	27.4	19860	1.1	25.9	19649	1.1	25.8
5407-2007	A5	11892	1.7	80.0	14123	1.6	80.0	14114	1.6	80.0	19860	1.1	80.0	19649	1.1	80.0
5408-1554	A5	5743	1.8	48.4	6235	1.4	48.2	6132	1.4	48.2	9497	1.1	48.0	9324	1.1	48.1
5408-2022	A5	5743	1.8	80.0	6235	1.4	80.0	6132	1.4	80.0	9497	1.1	80.0	9324	1.1	80.0
5409-1465	V6 Grafton Street	29573	1.7	97.1	31619	1.6	97.0	30930	1.6	97.0	32602	1.4	96.2	32823	1.3	96.3
5409-1466	V6 Grafton Street	12228	2.2	36.4	13227	2.0	36.3	12851	2.1	36.3	13521	1.7	36.3	13843	1.6	36.3
5409-1556	V6 Grafton Street	13815	1.4	60.0	14618	1.2	60.0	14387	1.2	60.0	15189	1.0	60.0	15061	1.0	60.0
5420-1408	V11 Tongwell Street	37423	5.0	97.0	42496	3.8	96.6	43386	4.3	96.5	59731	2.3	94.5	61529	2.4	94.3



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5515-1628	B526 London Road	13680	1.4	34.3	14436	1.2	32.1	13244	1.3	33.5	15515	1.0	29.2	13731	1.3	30.4
5515-1928	A509	26921	4.2	28.1	26968	3.4	27.7	26801	2.5	27.7	28043	2.1	25.8	26143	2.0	26.9
5715-1270	V10 Brickhill Street	22061	2.4	59.2	20427	2.7	57.8	18343	2.9	57.1	20182	2.1	54.8	19008	2.1	55.3
5715-1299	V10 Brickhill Street	17191	2.1	67.2	16225	2.3	66.3	12404	2.8	62.5	11897	1.6	61.2	9512	1.7	58.1
5815-1266	H3 Monks Way	43058	1.7	81.0	43106	1.6	80.0	44362	1.9	78.8	44361	1.0	73.2	44120	1.9	68.9
5815-1296	V9 Overstreet	17300	1.9	72.8	20705	1.6	71.2	22595	1.7	70.5	25289	1.7	66.5	25052	1.1	65.9
5815-5414	St Leger Drive	4198	3.5	42.6	3880	3.8	42.5	3891	3.8	42.7	7869	1.8	40.4	7481	1.8	40.5
5815-5715	H3 Monks Way	43316	1.6	81.7	44766	1.5	79.8	46756	1.9	78.7	49927	1.1	68.1	55609	1.4	67.5
5936-1316	H5 Portway	17720	1.8	38.9	22493	1.5	38.2	22530	1.5	38.2	29563	1.1	35.4	29413	1.1	35.5
5937-1334	V6 Grafton Gate	29270	2.2	33.0	36070	1.7	32.0	36261	1.7	32.0	39834	1.2	31.4	39964	1.3	31.4
5937-1837	V6 Grafton Gate	427	0.1	31.1	520	0.0	30.2	524	0.0	30.3	661	0.0	30.2	648	0.0	30.2
5937-5935	V6 Grafton Gate	28786	2.1	39.1	37294	1.6	39.0	37514	1.6	39.0	40994	1.2	39.0	41082	1.3	39.0
6006-3125	A5	11556	4.1	98.3	14353	3.5	98.0	14377	3.5	98.0	14239	2.4	97.7	14481	2.3	97.7
6102-1236	Pitfield	4232	2.3	43.5	4333	2.3	43.5	4335	2.3	43.5	8688	1.1	41.8	8690	1.1	41.7
6104-1237	Greenleys Lane	1272	1.9	37.3	1561	1.5	35.2	1468	1.6	35.6	2796	0.8	35.7	2885	0.7	35.5
6105-1238	Hodge Lea Lane	616	7.7	40.5	543	8.8	40.4	530	8.9	40.7	1810	2.5	39.9	1832	2.5	40.0



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6109-1242	Briar Hill	468	17.8	40.7	455	18.2	41.5	423	19.6	41.3	738	10.6	50.6	630	12.4	51.4
6112-1710	White Alder	759	0.1	47.2	693	0.2	47.3	719	0.2	47.4	1175	0.1	49.9	1288	0.1	49.6
6113-1711	Hadrians Drive	461	0.2	40.1	488	0.2	40.8	539	0.2	41.8	901	0.2	45.4	744	0.3	49.4
6118-1252	Fairways	5413	0.5	42.5	5301	0.6	42.3	5304	0.6	42.3	9751	0.3	40.2	9773	0.3	40.2
6119-1252	Pitfield	6524	1.1	43.4	6997	1.1	43.0	6965	1.2	43.0	8853	0.9	44.5	8954	0.8	44.5
6122-1255	Alston Drive	1886	1.2	41.3	1942	1.3	40.9	1946	1.3	41.0	3047	0.8	39.3	3041	0.8	39.2
6123-1255	Erica Road	2547	4.4	40.3	2811	4.0	39.9	2817	4.0	39.9	4329	2.4	38.1	4315	2.4	38.1
6124-1256	Octavian Drive	2036	0.3	40.9	1821	0.3	39.6	1820	0.3	39.7	3455	0.2	36.0	3455	0.1	35.9
6125-1256	Colley Hill	2149	0.6	44.3	2048	0.7	43.0	2088	0.7	42.9	4899	0.4	37.9	4820	0.4	37.8
6126-1258	Mercers Drive	1534	0.7	40.5	1866	0.7	37.8	1888	0.7	37.6	4486	0.4	32.0	4443	0.3	31.9
6127-1259	Temple	1621	0.3	45.4	2250	0.4	43.0	2187	0.4	42.9	3875	0.2	38.4	3836	0.2	39.6
6128-1259	Barry Avenue	453	0.0	53.1	444	0.0	53.4	466	0.0	53.5	1368	0.0	53.1	1372	0.0	53.1
6131-1262	Soskin Drive	4613	0.7	42.3	4912	0.7	41.8	5425	0.6	40.7	9657	0.5	38.1	10010	0.4	37.9
6132-1262	Breckland	882	2.0	45.8	1824	0.9	45.3	1814	0.9	44.3	2176	0.7	40.1	2096	0.8	39.1
6133-1263	Foxhunter Drive	1504	1.5	42.7	2002	1.2	41.6	2012	1.2	41.6	2317	1.0	40.5	2301	1.0	40.4
6134-1264	Ashfield	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0



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6135-1264	St Leger Drive	1060	2.4	44.6	1299	2.0	43.4	1259	2.0	42.5	4105	0.6	46.8	4914	0.6	44.9
6136-1265	Stanton Gate	5038	2.5	53.1	4316	2.9	53.2	3878	3.3	53.5	6263	1.7	51.1	5935	1.8	51.1
6137-1265	Malins Gate	4199	0.8	55.0	4006	0.8	55.0	4072	0.8	54.9	4360	0.7	54.0	3901	0.7	54.1
6138-1268	Horton Gate	3432	0.8	41.3	3184	0.8	41.6	2990	0.8	41.7	4123	0.5	42.8	4078	0.4	42.4
6140-1269	Knebworth Gate	904	0.2	38.2	1100	0.3	38.8	1364	0.6	37.2	895	0.2	54.8	1010	0.8	49.9
6141-1269	Wedgewood Avenue	10555	1.2	36.5	10651	1.3	36.5	10571	1.3	36.5	17420	0.8	35.1	16989	0.8	35.1
6142-1270	Clayton Gate	2289	2.0	50.5	1854	2.5	51.7	1718	2.5	47.7	3229	1.0	44.4	3631	0.6	43.0
6143-1270	Yeomans Drive	5541	1.1	39.4	7287	0.9	39.4	7287	0.9	39.4	10069	0.6	38.7	9933	0.7	38.9
6144-1274	Chicheley Street	4038	1.8	34.5	7430	1.0	34.3	7487	1.0	34.3	7989	1.0	34.3	8143	1.0	34.3
6144-4474	Milton Drive	0	0.0	0.0	1477	0.0	48.0	1490	0.0	48.0	62	0.0	48.0	64	0.0	48.0
6144-4475	Chicheley Street	0	0.0	0.0	1476	0.0	48.0	1489	0.0	48.0	62	0.0	48.0	64	0.0	48.0
6144-4485	Highfield Close	4038	1.8	48.0	4568	1.7	48.0	4596	1.7	48.0	7874	1.0	48.0	8023	1.0	48.0
6145-1277	Hoyton Gate	4296	0.4	42.5	4241	0.4	42.4	4035	0.5	41.8	3862	0.3	51.3	3491	0.4	50.8
6146-1277	Monro Avenue	1410	0.4	31.6	1422	0.4	31.6	1437	0.4	31.6	2052	0.1	31.9	2042	0.1	31.9
6147-1278	Hendrix Drive	2	0.0	56.0	17	0.0	56.0	18	0.0	56.0	548	0.0	21.6	739	0.0	21.2
6149-1281	The High Street	1964	2.6	45.7	1864	2.7	45.2	1843	2.7	45.1	2645	1.8	39.3	3093	1.5	37.4



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6150-1281	Kensington Drive	2696	2.4	41.7	2854	2.4	40.8	2684	2.6	40.7	4898	1.3	39.5	4585	1.4	38.7
6153-1284	Bradwell Road	390	0.6	43.5	389	0.7	42.9	390	0.7	42.8	763	0.3	40.5	762	0.4	40.5
6154-1285	Loughton Road	3631	0.7	43.0	2579	0.7	47.4	2534	0.7	47.2	4649	0.4	44.9	4844	0.4	45.0
6155-1285	Deltic Avenue	2090	1.4	41.8	3514	0.8	41.7	3244	0.9	41.4	4460	0.4	45.9	4578	0.5	46.3
6156-1286	Rawlins Road	1647	0.8	30.4	2474	0.7	31.8	2485	0.7	32.3	4384	0.3	29.8	4240	0.3	28.8
6157-1286	Langcliffe Drive	4032	1.1	30.5	4106	1.1	30.2	4125	1.1	30.2	7673	0.6	28.0	7728	0.5	27.7
6160-1289	East Dales	1308	2.2	32.8	1226	2.4	32.7	1263	2.4	32.7	2382	1.1	32.1	2553	1.1	32.1
6161-1289	Breckland	1703	1.2	42.5	3351	0.7	42.4	3375	0.7	42.9	3476	0.7	43.1	3570	0.7	43.5
6162-1291	Fennel Drive	1884	0.4	42.0	1831	0.5	41.4	1964	0.4	41.8	4014	0.3	41.4	4138	0.2	41.3
6163-1292	Sunrise Parkway	3650	2.2	47.0	3852	2.2	46.7	4042	2.1	46.9	5407	1.3	46.8	5399	1.2	47.1
6164-1293	Sunrise Parkway	2386	0.9	44.6	2350	0.9	44.0	2191	1.1	43.3	4206	0.8	38.0	4182	1.0	37.8
6165-1293	Currier Drive	4143	0.4	30.8	4264	0.4	30.4	4416	0.4	30.1	7849	0.2	29.0	7403	0.2	28.8
6166-1295	Armourer Drive	58	0.0	33.0	42	0.0	32.8	41	0.0	32.8	128	0.0	32.6	1175	0.2	35.4
6167-1295	Capel Drive	1938	0.2	44.2	1694	0.3	43.7	1828	0.3	44.4	3539	0.2	43.3	3594	0.2	43.6
6168-1296	Tower Drive	4305	1.2	32.3	4201	1.2	32.2	4076	1.3	32.4	6561	0.8	31.9	5897	0.9	31.2
6169-1296	Sovereign Drive	1117	0.3	40.2	1197	0.2	38.3	1959	0.2	34.4	3308	0.1	35.0	3566	0.2	33.6



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
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6170-1298	Leopard Drive	2232	0.5	41.0	1982	0.6	42.1	1231	0.9	53.3	2528	0.4	46.4	2264	0.4	52.1
6171-1298	Colesbourne Drive	660	7.4	46.1	603	8.1	44.3	727	7.2	46.7	1164	4.1	43.1	2236	2.6	48.6
6172-1299	Delaware Drive	1495	2.1	45.2	1449	2.4	44.7	1394	2.1	45.0	2598	0.4	47.4	1925	0.1	40.0
6173-1299	Redvers Gate	14417	1.0	29.9	14787	1.0	30.1	14778	1.0	29.7	21378	0.7	24.6	20707	0.8	24.7
6173-1751	Lacy Drive	14463	1.0	17.7	14828	1.0	17.7	14823	1.0	17.7	21269	0.7	16.9	20583	0.8	17.0
6173-1753	St Stephens Drive	46	0.0	19.9	42	0.0	19.9	47	0.0	19.9	162	0.0	19.9	201	0.0	19.9
6174-1301	Delaware Drive	5317	0.7	42.9	5786	0.7	42.2	7238	1.3	41.2	13020	0.7	40.1	12292	1.1	41.8
6175-1301	Hooper Gate	691	0.4	47.4	635	0.5	45.6	255	0.4	49.8	2060	0.2	38.5	532	0.1	49.9
6176-1302	Michigan Drive	5906	3.6	46.2	6694	3.3	45.9	5306	3.4	50.0	5282	3.6	47.4	7444	2.2	47.3
6177-1303	Patriot Drive	1468	0.8	47.9	1621	1.1	48.0	1896	0.9	47.6	2875	0.9	35.3	2768	0.8	34.3
6178-1303	Bradwell Common Boulevard	2480	0.6	54.8	2560	0.7	54.7	2578	0.6	54.7	6315	0.4	39.9	6333	0.3	39.7
6179-1306	Conniburrow Boulevard	2618	2.2	49.5	2510	2.3	49.3	2630	2.3	48.6	4056	1.3	46.5	3955	1.5	46.6
6180-1306	Downs Barn Boulevard	1218	0.1	29.7	959	0.2	29.6	918	0.2	29.5	45	0.0	28.7	915	0.1	28.1
6181-1307	Singleton Drive	347	4.4	54.0	376	4.3	54.3	559	2.8	54.8	3746	0.5	32.2	3672	0.4	35.5
6182-1307	Flamstead Gate	2211	1.5	43.9	2339	1.5	43.0	2397	1.5	42.8	3831	0.9	39.8	3781	0.9	40.0
6183-1309	Lennon Drive	2488	1.2	27.7	2346	1.3	27.5	2381	1.3	27.5	4818	0.7	26.4	4756	0.7	26.4



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6184-1309	Daubeney Gate	470	5.1	32.6	483	4.9	33.2	479	5.0	33.3	1140	2.0	31.2	1157	2.0	31.3
6185-1310	Knapp Gate	1590	0.0	54.3	97	0.2	41.1	385	0.0	52.2	1889	0.0	53.4	1958	0.0	53.4
6186-1310	Presley Way	3168	0.9	41.1	3264	1.0	40.7	3288	1.0	40.6	4975	0.4	40.7	4933	0.4	40.6
6187-1311	Crownhill Crematorium	2251	1.1	44.9	2309	1.0	44.7	2294	1.1	44.9	4929	0.8	41.3	5001	0.8	41.5
6188-1311	Holyrood	922	0.2	42.7	1134	0.1	39.3	1025	0.1	41.0	3502	0.1	39.0	3596	0.1	39.3
6192-1323	Downs Barn Boulevard	1203	8.0	46.9	789	12.0	54.2	756	12.3	54.2	1101	7.6	54.0	1039	8.0	54.0
6193-1323	Fairford Crescent	4626	1.4	41.5	4541	1.5	41.6	4436	1.5	41.2	7939	0.8	39.5	7000	0.8	38.0
6194-1325	Landsborough Gate	4456	0.4	42.1	4566	0.4	42.1	4598	0.4	43.0	7197	0.3	42.5	8349	0.2	41.4
6195-1325	Peterborough Gate	4791	0.3	30.5	4638	0.3	30.5	4623	0.4	30.6	8733	0.2	30.0	8579	0.2	30.2
6195-1754	Willen Park Avenue	4804	0.3	17.7	4649	0.3	17.7	4623	0.4	17.7	8768	0.2	17.4	8604	0.2	17.5
6195-1755	Beaufort Drive	13	0.0	19.7	11	0.0	19.7	0	0.0	19.7	36	0.0	19.7	25	0.0	19.7
6196-1327	Carleton Gate	3197	1.3	44.6	3164	1.4	45.0	3601	1.3	42.4	6102	0.8	40.1	6585	0.8	39.8
6197-1328	Road to Cotton Valley Sewage Works	373	1.1	41.9	1309	0.3	40.4	1213	0.4	39.0	1362	0.3	42.1	1236	0.4	43.8
6198-1330	Road to Cotton Valley Sewage Works	316	5.5	50.9	1055	1.7	51.3	1166	1.6	51.5	1104	1.8	46.4	1207	1.5	45.1
6199-1330	A509	765	10.0	53.8	884	8.8	53.7	1462	5.5	43.9	2200	3.5	39.9	3104	2.9	36.6



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6200-1344	Vernier Crescent	895	0.6	44.1	889	0.7	44.0	880	0.7	43.8	1464	0.6	42.1	1421	0.5	41.7
6201-1344	Woodhill Prison	385	2.4	44.7	395	2.4	44.3	396	2.5	44.3	687	1.4	42.5	684	1.5	42.4
6202-1345	Holden Avenue	12316	0.9	58.4	12372	0.9	57.4	12356	0.9	57.5	16674	0.6	52.6	16910	0.6	52.5
6203-1345	Merlewood Drive	175	0.1	35.8	226	0.1	35.4	233	0.1	35.4	1850	0.5	33.5	1933	0.8	33.0
6204-1347	Tacknell Drive	1546	0.0	52.0	2344	0.0	52.1	380	0.0	45.1	4705	0.1	47.4	4684	0.1	47.2
6205-1347	Chalkdell Drive	962	0.8	44.2	1036	1.0	44.4	1022	1.0	44.1	1440	0.5	38.2	1565	0.4	37.7
6216-1370	Pattison Lane	1274	0.5	31.1	1193	0.6	30.1	1187	0.6	30.0	2278	0.4	27.2	2290	0.3	27.1
6217-1371	Unnamed Road	0	0.0	0.0	185	0.0	43.7	184	0.0	43.6	153	0.0	41.9	151	0.0	41.7
6218-1371	Unnamed Road	1519	1.6	46.6	2115	1.2	46.3	2050	1.2	46.5	2549	0.8	45.1	2726	0.9	44.3
6219-1373	Northfield Drive	3678	1.4	45.9	4457	1.3	44.8	3912	1.4	46.9	5312	0.9	42.8	4547	1.0	44.9
6220-1373	Opal Drive	4562	1.7	45.6	4771	1.8	45.3	4755	1.8	45.3	7665	1.1	43.7	7632	1.1	43.7
6221-1375	Northfield Drive	585	1.9	29.4	506	2.1	29.3	478	2.4	29.2	1300	1.4	52.5	1140	0.5	55.5
6222-1375	Fairbourne Drive	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
6226-1381	Alton Gate	1946	1.2	34.6	2397	1.0	35.1	2136	1.2	35.3	4591	0.5	37.7	4740	0.5	37.3
6227-1381	Garthwaite Crescent	220	0.0	42.9	217	0.0	43.4	781	0.1	47.5	2747	0.1	42.0	2809	0.1	41.3
6228-1382	Barnsdale Drive	1969	0.9	44.1	2091	0.8	43.6	2107	0.9	43.6	3325	0.5	41.9	3110	0.6	42.9



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6229-1384	Wallinger Drive	2182	0.3	42.7	2721	0.3	42.7	2792	0.3	42.3	3802	0.3	45.5	3789	0.2	45.5
6230-1384	Pickering Drive	1497	0.3	45.8	1647	0.4	45.6	1866	0.3	46.9	3471	0.3	43.7	3644	0.2	43.8
6232-1386	Egerton Gate	6674	0.3	42.2	6173	0.4	41.1	7526	0.3	43.4	10092	0.1	39.3	10050	0.2	39.4
6233-1386	Faraday Drive	940	5.0	45.8	1045	4.7	46.7	1091	4.5	47.1	3564	1.4	46.6	3721	1.3	45.8
6234-1388	Redwood Drive	2216	0.5	42.4	2106	0.5	43.3	2107	0.5	43.3	3968	0.3	44.3	3955	0.3	44.5
6235-1388	Loxbeare Drive	965	5.1	40.9	1172	4.2	41.4	1194	4.2	41.4	2339	2.1	43.4	2505	1.9	43.4
6236-1389	Rutherford Gate	1915	0.3	47.1	1733	0.4	46.8	1653	0.4	47.1	2790	0.2	44.5	2817	0.2	44.4
6237-1389	Shirwell Crescent	2570	0.3	40.2	2284	0.3	40.2	2272	0.3	40.4	3546	0.2	34.0	3518	0.2	34.0
6238-1391	Faraday Drive	3599	0.3	28.0	3442	0.3	27.8	3493	0.3	27.8	5557	0.2	27.4	5472	0.2	27.4
6239-1391	Kelvin Drive	1965	1.1	43.0	2308	0.9	42.5	2469	0.9	41.4	4816	0.5	43.1	4758	0.6	43.2
6240-1393	Davy Avenue	1882	1.8	43.3	2241	1.7	43.3	2324	1.6	43.7	2265	1.3	43.3	2356	1.0	43.1
6241-1397	Strudwick Drive	4822	0.5	38.8	3972	0.6	38.9	3786	0.6	38.9	8277	0.3	38.4	8552	0.2	38.3
6245-1400	Fishermead Boulevard	4397	0.4	26.3	5107	0.4	25.7	4869	0.4	25.7	8760	0.2	25.3	8229	0.2	25.5
6245-1798	Helford Place	1763	0.3	29.8	1896	0.3	29.8	1841	0.3	29.8	2332	0.1	29.8	2198	0.2	29.9
6246-1400	Springfield Boulevard	3129	4.0	40.7	3639	3.4	40.1	3541	3.5	39.9	8559	1.4	37.4	8439	1.4	37.3
6247-1403	Pattison Lane	1419	0.6	31.9	1401	0.5	31.8	1400	0.5	31.8	2573	0.2	32.1	2533	0.3	32.0



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6248-1403	Newport Road	1071	0.4	31.5	1006	0.4	31.8	1002	0.4	31.7	1622	0.3	32.0	1631	0.3	32.0
6249-1404	Noon Layer Drive	1995	0.3	39.8	2071	0.3	37.6	2157	0.2	37.0	3660	0.2	36.9	3108	0.2	37.8
6250-1404	Atlas Way	4186	0.4	32.3	7078	0.2	31.7	7054	0.2	31.6	9115	0.2	30.7	9101	0.2	30.6
6251-1406	Claridge Drive	5013	1.0	38.4	5046	0.7	40.3	5103	0.7	40.2	8709	0.4	38.4	8487	0.4	38.8
6252-1406	Flaxley Gate	3153	0.1	43.9	2969	0.1	41.4	2942	0.1	41.0	4627	0.0	40.4	4635	0.0	40.1
6253-4531	Tanfield Lane	310	0.0	29.9	1172	0.0	29.8	705	0.0	29.9	3100	0.0	29.8	3108	0.0	29.8
6254-1408	Oakworth Avenue	1751	0.1	39.6	2034	0.1	38.9	1959	0.1	39.2	3318	0.1	37.2	3257	0.1	37.1
6255-5420	Griffith Gate	656	3.3	55.7	0	0.0	56.0	0	0.0	0.0	537	0.0	27.0	954	0.0	27.0
6257-1412	Andersen Gate	1408	1.1	47.3	1409	1.0	47.0	1414	1.1	46.9	2579	0.4	43.8	2682	0.5	43.2
6258-1412	Pendeen Crescent	2174	1.2	44.3	2849	1.0	43.9	2850	1.0	43.8	4556	0.6	42.6	4570	0.6	42.6
6263-1418	White Horse Drive	1397	0.5	37.6	1882	0.4	35.9	1594	0.5	37.2	4074	0.2	38.9	4254	0.2	38.5
6266-1420	Priors Park	2189	2.0	50.6	1387	3.2	53.9	1707	2.5	51.7	2253	1.8	50.4	2044	2.0	51.2
6267-1420	Blackmoor Gate	1903	3.9	47.9	1987	3.8	48.2	1981	3.8	48.2	6495	1.3	48.9	6634	1.2	48.9
6270-1423	Parkside	1148	1.4	30.0	1136	1.5	29.8	1139	1.5	29.8	4315	0.5	26.0	4222	0.5	26.3
6271-1425	Favell Drive	7530	0.6	40.8	7046	0.6	40.3	7048	0.6	40.3	9797	0.4	39.1	9753	0.4	39.0
6272-1427	Chesney World	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0



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6275-1428	Rochfords	3273	0.6	36.7	3305	0.6	35.2	3302	0.6	35.3	6054	0.3	31.0	6050	0.3	31.0
6278-1431	Golden Drive	1511	1.5	42.9	1961	1.2	42.4	2008	1.2	42.2	4734	0.6	38.7	4707	0.6	38.5
6279-1431	Fulwoods Drive	1098	1.2	44.5	1101	1.5	46.9	1089	1.5	46.4	3811	0.6	39.6	3617	0.6	39.6
6280-1432	Robins Hill	2175	0.4	37.2	2216	0.4	35.7	2192	0.4	35.4	5319	0.2	36.4	5323	0.2	36.4
6281-1432	Robins Hill	469	0.3	39.1	424	0.3	35.4	425	0.3	35.4	827	0.1	37.5	805	0.1	37.8
6282-1434	Fleming Drive	1917	3.8	29.3	2060	3.5	29.2	2053	3.5	29.2	3567	2.0	27.9	3581	2.0	27.8
6283-1434	Farthing Grove	2027	0.5	39.8	3278	0.6	39.5	3148	0.4	39.4	5920	0.2	34.0	5958	0.2	33.4
6288-1441	Leominster Gate	1355	0.1	55.5	1195	0.1	55.5	1185	0.1	55.5	1541	0.1	55.1	1603	0.1	55.1
6289-1441	Durgate	633	1.3	36.7	1111	1.0	36.2	1123	1.0	37.1	1867	0.6	34.1	1860	0.6	33.6
6290-1443	Waltham Drive	675	0.5	28.1	583	0.4	28.1	371	0.5	28.1	1560	0.1	27.6	1441	0.1	27.6
6291-1443	Tunbridge Grove	1812	0.2	26.9	1626	0.2	26.7	1622	0.2	26.6	2790	0.1	25.7	2664	0.1	25.8
6292-1444	Lindisfarne Drive	1723	0.5	36.5	1900	0.5	41.4	1993	0.5	41.1	5048	0.2	39.7	5225	0.2	39.2
6293-1444	Chippenham Drive	11154	1.3	41.2	5933	2.4	32.2	6067	2.4	32.0	9396	1.6	29.9	9155	1.7	29.0
6300-1453	Hunstanton Way	1886	0.2	41.6	1783	0.2	41.0	1773	0.2	41.1	2533	0.1	40.0	2539	0.1	40.0
6301-1453	Hunstanton Way	1017	1.1	43.5	1115	1.2	42.7	1116	1.2	42.7	4663	0.4	38.5	4488	0.5	39.0
6302-1455	Derwent Drive	1380	0.9	44.3	1553	0.8	44.5	1542	0.8	44.6	3726	0.3	46.7	3696	0.3	46.7



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6303-1455	Derwent Drive	1337	0.1	41.9	1073	0.1	43.0	1092	0.1	42.4	1974	0.0	41.1	1945	0.0	41.0
6304-1456	Tweed Drive	4940	0.5	38.4	4597	0.5	38.2	4611	0.5	38.2	5161	0.3	35.4	5369	0.3	35.0
6305-1457	Mersey Way	203	5.8	39.7	178	6.6	39.7	178	6.6	39.7	741	1.6	35.3	727	1.6	35.5
6306-1457	Nottingham Gate	1234	1.8	41.5	1460	1.7	42.3	1441	1.7	42.1	4271	0.2	42.3	4271	0.2	42.4
6309-1462	Denbigh Hall	666	1.2	42.2	688	1.2	41.8	688	1.2	41.8	1153	0.7	39.6	1151	0.7	39.6
6310-1465	Merton Drive	2569	2.5	41.3	2751	2.6	41.1	2781	2.6	41.1	4179	1.8	39.8	4259	1.8	39.3
6311-1465	Melick Road	3447	1.2	38.9	3747	1.3	37.2	3761	1.3	37.4	6716	0.7	35.9	6677	0.7	35.7
6312-1467	Dodkin	1585	0.9	42.6	1292	0.7	46.0	1253	0.8	45.8	3161	0.4	45.0	3191	0.4	45.5
6313-1467	Barnfield Drive	8111	0.7	40.0	9379	0.7	40.5	9186	0.7	40.8	13237	0.5	39.5	12943	0.5	39.6
6314-1470	Barnfield Drive	1205	1.0	43.4	3132	0.4	36.4	3309	0.4	35.8	4864	0.3	35.5	4979	0.4	36.8
6315-1470	Aldenham	1257	0.5	40.3	1290	0.4	40.5	1290	0.4	40.5	2425	0.2	37.0	2392	0.3	36.9
6316-1472	Marshworth	459	1.1	41.7	392	1.6	40.2	391	1.6	40.2	793	0.7	42.7	826	0.7	42.7
6317-1473	Castle Road	809	0.5	40.1	786	0.6	40.0	786	0.6	40.0	1502	0.3	38.1	1501	0.3	38.1
6318-1475	Walton Drive	2784	2.4	41.9	1961	2.1	41.1	1810	2.2	42.8	3873	1.1	36.0	3819	1.1	36.2
6320-1478	Frithwood Crescent	2738	0.9	45.9	3105	0.7	44.6	3223	0.7	44.4	6606	0.3	41.5	6532	0.3	41.7
6321-1478	Highgate Over	5868	4.0	42.5	5758	4.1	45.0	6136	4.0	43.9	8963	2.6	44.1	9143	2.6	44.0



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6322-1479	Pondgate	4284	1.1	41.3	3664	1.4	41.3	3554	1.4	41.3	6598	0.8	38.8	6799	0.8	38.4
6323-1479	Brudenell Drive	4130	2.5	42.9	5006	2.9	37.1	5234	2.8	36.9	7443	1.1	32.1	7428	1.2	32.0
6324-1481	Bransworth Avenue	2534	3.9	45.3	4320	2.2	45.6	4044	2.4	46.0	6531	2.2	42.6	6760	2.1	43.1
6325-1481	Ortensia Drive	2296	3.9	39.8	2307	4.1	45.1	2303	4.2	45.2	4729	2.0	42.7	4695	2.0	42.9
6326-1482	Walton Road	916	0.0	32.2	2705	0.0	32.1	2703	0.0	32.1	2977	0.0	31.6	2998	0.0	31.6
6326-4411	Walton Road	751	0.1	48.0	2458	0.0	48.0	2457	0.0	48.0	2700	0.0	48.0	2706	0.0	48.0
6326-4412	St Mary's Close	165	0.0	48.0	252	0.0	48.0	251	0.0	48.0	281	0.0	48.0	296	0.0	48.0
6336-1502	Peveler Drive	1942	1.7	37.0	2142	1.6	37.6	2142	1.7	37.6	3706	1.0	35.5	3712	1.0	35.6
6337-1503	Sinclair Court	4750	1.4	43.6	4820	1.5	42.8	4832	1.5	42.8	7856	0.9	40.2	7738	0.9	40.6
6338-1505	Dawson Road	996	1.8	55.7	955	1.9	55.7	962	1.7	55.6	1358	1.2	55.4	1635	1.0	52.1
6339-4515	Stadium Way	1840	1.8	42.0	1978	1.8	41.8	1997	1.8	41.7	2970	1.1	40.8	2873	1.2	40.1
6342-1511	Hanmer Road	243	1.6	42.9	398	1.1	43.2	395	1.1	43.3	1140	0.7	45.5	1143	0.7	45.4
6343-1511	Simpson Road	1381	0.4	43.8	1427	0.5	44.1	1661	0.4	45.6	2789	0.3	40.9	2836	0.3	40.5
6344-1513	Walton Road	10242	0.5	41.2	10097	0.5	40.0	9578	0.5	40.8	12662	0.3	40.7	12455	0.3	40.9
6345-1513	Walton Road	8033	1.5	42.2	8897	1.4	41.5	8862	1.4	41.5	13471	0.9	39.0	13449	0.9	38.7
6346-1514	Dunchurch Dale	6053	1.0	43.7	4332	1.5	47.7	4375	1.5	47.5	9693	0.8	40.5	9409	0.8	40.2



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6347-1514	Chase Avenue	2101	1.5	45.2	2022	1.5	44.8	1782	1.8	43.4	3392	0.8	44.6	3316	0.8	44.9
6348-1516	Bourton Low	592	18.0	29.6	2447	4.3	28.6	2493	4.3	28.6	6453	1.6	25.6	6638	1.6	25.4
6349-1516	Bradbourne Drive	5007	2.3	40.3	5580	3.2	38.5	5420	3.0	38.3	8414	1.9	36.3	8225	1.6	36.6
6350-1518	Fyfield Barrow	2746	4.3	40.9	2761	4.3	40.4	2762	4.3	40.3	5449	2.0	36.3	5451	2.0	36.3
6351-1518	Fyfield Barrow	1373	4.3	54.7	722	7.1	54.2	716	7.0	54.2	4362	1.1	35.4	4460	1.1	35.4
6354-1522	George Street	1300	0.0	40.2	1347	0.0	40.2	1347	0.0	40.1	2713	0.0	38.3	2711	0.0	38.4
6357-1527	Sherborne Drive	6258	1.8	42.3	2786	0.7	51.6	2851	1.3	51.1	2872	1.2	49.5	3218	2.0	48.7
6372-1578	Plaistow Crescent	2270	1.0	46.7	2124	1.0	45.9	2124	1.0	43.3	4380	0.5	41.3	4359	0.5	41.5
6376-1587	Woodside	2021	0.7	39.8	2404	0.6	37.8	2415	0.6	37.9	2666	0.3	40.4	2616	0.2	40.4
6379-1590	Galley Hill	1033	0.5	42.8	1089	0.5	42.9	1120	0.5	42.4	2552	0.2	39.1	2630	0.2	38.6
6385-1597	Colts Holm Road	1727	1.2	32.4	2001	1.1	32.3	2002	1.1	32.3	2997	0.7	31.6	2984	0.7	31.5
6386-1600	Newport Road	5244	0.6	40.4	5488	0.5	40.2	5485	0.6	40.2	9942	0.3	35.5	10032	0.3	35.9
6387-1618	Thornbury	35	2.0	43.8	548	0.1	43.2	549	0.1	43.1	549	0.1	41.6	550	0.1	41.5
6390-1623	Buckland Drive	4290	2.2	40.6	5078	1.7	40.1	5237	1.8	40.0	6059	1.4	38.9	6209	1.4	38.7
6391-1623	Passmore	283	0.4	39.5	262	0.5	39.2	262	0.5	39.2	529	0.2	37.2	529	0.2	37.2
6392-1627	Japonica Lane	3023	0.9	41.9	2945	1.0	41.9	2946	1.0	42.1	5519	0.5	39.8	5478	0.5	40.5



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6394-1664	Skeldon Gate	271	2.2	42.3	1567	0.4	40.2	1560	0.4	40.4	1580	0.4	38.9	1496	0.4	39.0
6395-1664	Skeldon Gate	90	0.6	41.0	1391	0.0	36.8	1158	0.1	36.5	155	0.4	39.1	149	0.4	38.8
6396-1665	Blairmont Street	66	0.2	46.0	606	0.0	42.9	617	0.0	42.4	632	0.0	40.2	697	0.0	39.4
6397-1666	Pilgrim Street	9	0.3	47.3	342	0.0	50.3	333	0.0	51.0	31	0.2	43.5	32	0.2	43.7
6398-1667	Dalgin Place	224	0.4	40.6	569	0.2	36.1	498	0.2	37.3	1330	0.1	36.6	1327	0.1	36.7
6399-1668	Taymouth Place	37	0.6	40.4	281	0.1	35.5	291	0.1	36.1	442	0.1	38.8	472	0.1	39.8
6400-1669	Enterprise Lane	1910	0.6	40.8	2072	0.5	40.6	2155	0.5	40.1	2587	0.4	38.1	2562	0.4	38.2
6401-1669	Highbury Lane	195	0.4	37.0	1020	0.1	36.3	1016	0.1	36.1	934	0.1	32.8	892	0.1	31.9
6402-1674	Marsh Drive	672	5.6	43.0	663	5.7	42.6	663	5.7	42.6	1146	3.1	40.4	1141	3.1	40.4
6403-1675	Broadway Avenue	854	0.4	26.8	1034	0.5	26.7	1221	0.5	28.4	3605	0.4	27.4	3546	0.5	28.0
6407-1708	Reliance Lane	103	2.2	56.0	308	0.7	55.9	304	0.8	56.0	278	0.7	56.0	277	0.8	56.0
6408-1709	Eskan Court	148	3.9	44.9	635	1.0	37.1	885	0.7	36.6	275	2.1	42.0	276	2.1	42.0
6409-1712	Stonegate	161	2.2	55.9	240	1.5	55.9	193	1.9	55.9	701	0.5	49.4	844	0.5	45.2
6410-1713	Livingstone Drive	1182	2.0	44.7	1236	2.0	44.5	1224	2.1	44.3	1793	1.3	42.4	1765	1.4	42.2
6411-1716	Elgar Grove	3130	3.7	41.1	2906	4.0	40.9	2904	4.0	40.9	5685	1.8	38.6	5694	1.8	38.6
6412-1717	Road to the National Bowl	992	1.2	43.2	1166	1.1	43.5	1119	1.2	42.9	1728	0.7	39.2	1686	0.7	38.5



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6413-1719	Timbold Drive	432	2.6	44.2	803	1.4	41.5	821	1.4	41.4	669	1.4	38.6	668	1.3	38.3
6414-1723	MK Coachway Park & Ride	22	54.5	24.0	241	12.0	31.8	160	18.1	31.6	1238	2.2	32.1	1244	2.2	32.1
6414-5160	MK Coachway Park & Ride	0	0.0	0.0	263	15.0	26.9	183	21.6	27.3	1263	2.8	25.5	1268	2.7	25.6
6414-5161	MK Coachway Park & Ride	0	0.0	0.0	48	72.3	33.7	48	72.4	33.7	55	59.7	33.0	55	59.8	33.0
6415-1903	Greenfield Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
6416-1905	Manor Road	1608	0.4	36.8	1370	0.6	32.8	1482	0.6	34.6	858	0.4	47.0	1242	1.1	39.6
6417-1910	Park Avenue	2613	0.9	39.4	2846	1.0	38.5	2794	0.9	38.2	4660	0.4	37.9	4721	0.4	39.1
6418-1911	Lakes Lane	1560	1.2	42.2	1599	1.2	42.0	1583	1.3	42.0	2818	0.7	39.4	2836	0.7	39.4
6419-1913	Richmond Way	979	1.4	38.9	929	1.5	39.0	938	1.4	38.8	1395	0.8	38.0	1410	0.8	37.0
6421-1916	Unnamed Road	1826	2.2	39.8	1787	2.3	39.4	1725	2.2	38.9	3335	1.2	39.1	3323	1.2	38.5
6422-1916	Unnamed Road	101	0.9	44.5	129	0.8	43.1	112	1.5	44.9	508	0.8	38.7	516	0.9	39.9
6423-1917	Silver Street	1606	2.3	38.2	1542	2.0	38.2	1446	2.1	38.1	2220	1.5	36.1	1947	0.9	37.2
6424-1922	Union Street	0	0.0	56.0	0	0.0	56.0	0	0.0	56.0	0	0.0	56.0	0	0.0	56.0
6425-1923	Ousebank Street	1348	3.9	37.2	1506	3.9	36.7	1426	3.4	38.9	2498	2.2	37.9	2702	1.7	38.1
6426-1924	North Square	2664	3.1	41.4	2789	3.1	41.1	2789	3.2	41.1	4953	1.8	39.9	5013	1.9	39.8



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6426-4488	Mill Street	118	1.8	48.0	119	1.9	48.0	119	1.9	48.0	224	1.1	48.0	227	1.1	48.0
6426-4489	Union Street	2548	3.1	48.0	2671	3.1	48.0	2672	3.2	48.0	4734	1.9	48.0	4790	1.9	48.0
6427-1930	Silver Street	488	1.7	55.9	545	1.9	55.9	597	2.4	55.9	821	1.6	55.8	890	1.6	55.8
6428-1931	Riverside	660	2.0	47.1	591	1.9	49.0	681	3.5	43.3	1314	1.5	41.8	1171	2.5	41.5
6429-1932	Priory Street	1338	1.5	41.1	1461	1.5	40.7	1471	1.5	40.8	2583	0.8	39.5	2631	0.8	39.6
6430-1933	St Margarets Close	2526	1.4	38.5	2499	1.5	38.2	2519	1.5	38.4	4647	0.8	36.6	4730	0.8	36.5
6431-1934	Street to Middleton Pool & Fitness Centre	821	0.7	33.1	839	0.7	32.5	844	0.7	32.8	1545	0.4	31.0	1561	0.4	31.2
6432-2029	St James Street	3717	0.6	42.9	3588	0.6	42.9	3607	0.6	42.9	6097	0.4	43.5	6018	0.4	43.0
6433-2031	Cedars Way	780	2.0	41.3	806	2.4	42.8	881	2.3	41.9	1792	1.2	40.7	1493	2.6	45.5
6434-2033	Overgate	0	0.0	0.0	1092	0.0	37.8	1092	0.0	37.8	46	0.0	41.3	45	0.0	41.3
6435-2034	Overgate	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
6436-1367	Road off Overgate to Campbell Cricket Ground	2103	1.9	40.8	2329	1.8	40.3	2334	1.8	40.3	3578	1.1	38.3	3548	1.1	38.3
6437-2040	Windmill Hill Drive	974	0.2	41.2	988	0.2	41.7	1001	0.2	41.6	2583	0.1	39.1	2579	0.1	39.1
6438-2040	Caernavron Crescent	814	0.2	38.3	956	0.2	36.2	981	0.2	37.3	1664	0.1	36.4	1681	0.1	36.5
6439-2047	South Terrace	4539	2.9	36.0	4678	2.8	36.0	4677	2.8	36.0	2887	3.5	36.0	2796	3.6	36.0



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6441-2053	Elder Gate	284	0.6	45.1	331	0.5	44.7	332	0.5	44.7	507	0.3	44.5	506	0.3	44.5
6442-1792	Milton Keynes Central Station	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
6443-1727	Elder Gate	4784	0.7	24.8	10473	0.3	24.9	10453	0.3	25.1	6821	0.7	26.6	6845	0.7	26.7
6447-1726	Milton Keynes Theatre	4145	0.6	32.1	5631	0.5	31.7	5609	0.5	31.7	7245	0.4	32.5	7393	0.4	32.4
6450-1407	Mandeville Drive	2120	5.0	37.4	6233	1.7	48.1	6067	1.7	48.5	11391	0.9	43.5	11565	0.9	43.3
6468-1251	Calverton Lane	0	0.0	0.0	6742	1.0	29.0	6763	1.3	29.0	10473	0.8	27.7	9455	1.0	27.7
6470-2601	Atlas Way	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
6471-2602	Road off V10 Brickhill Street	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
6472-2603	Babbage Gate	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
6473-2604	Harvard Way	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
6474-2601	Road to Oakgrove School	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
7001-1344	V2 Tattenhoe Street	20545	1.3	82.1	26722	1.0	80.4	26983	1.0	80.4	40645	0.6	71.1	41084	0.6	71.0
7001-1345	V2 Tattenhoe Street	20546	1.3	76.4	26722	1.0	75.3	26983	1.0	75.1	40699	0.6	65.0	41648	0.6	63.4
7002-1346	H6 Childs Way	19082	1.8	77.4	23236	1.4	75.4	24097	1.4	75.2	29708	0.6	67.3	29661	0.6	66.9
7002-4003	H6 Childs Way	14366	2.7	75.4	19099	2.0	74.4	19673	1.9	74.1	23084	0.9	72.8	22828	0.9	72.9



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7008-1334	Silbury Boulevard	3148	12.2	40.6	8509	4.5	37.6	8805	5.7	37.7	10264	3.3	35.5	10597	4.2	35.6
7008-1661	Silbury Boulevard	3471	2.9	23.3	6308	1.8	22.8	6542	1.7	22.9	7499	1.5	23.1	7449	1.5	23.0
7008-1727	Elder Gate	6341	7.6	26.6	13560	3.6	25.9	13902	4.3	25.9	12971	3.4	25.0	13305	4.1	25.0
7011-6245	Porthleven Place	1427	0.3	34.4	1717	0.3	34.4	1691	0.3	34.2	2816	0.1	34.2	2607	0.2	34.5
7012-1471	V8 Marlborough Street	4929	4.6	38.3	8621	2.8	39.9	8493	2.9	39.9	18098	1.4	37.9	18427	1.4	37.7
7012-1507	V8 Marlborough Street	4717	4.7	49.6	8462	2.8	49.7	8333	2.9	49.7	18316	1.4	48.0	18643	1.4	48.5
7015-2301	H5 Portway	16191	0.7	65.7	19817	0.6	64.9	19691	0.6	64.9	22324	0.5	63.6	22153	0.5	63.5
7015-5935	V6 Grafton Gate	16202	1.9	48.0	20080	1.5	48.0	20242	1.5	48.0	20568	1.2	48.0	20540	1.2	48.0
7016-1317	N Grafton Roundabout	9486	1.5	39.6	12617	1.2	39.0	12510	1.2	39.1	14046	0.8	38.3	14299	0.8	38.3
7016-5935	V6 Grafton Gate	12584	2.5	38.5	17214	1.8	37.9	17271	1.9	37.9	20426	1.3	35.9	20543	1.3	35.8
7016-5936	H5 Portway	17720	1.8	50.0	22493	1.5	50.0	22530	1.5	50.0	29563	1.1	50.0	29413	1.1	50.0
7016-7015	N Grafton Roundabout	14623	1.1	66.5	17897	1.0	66.3	17768	1.0	66.3	23181	0.8	65.7	23167	0.7	65.6
7017-1317	N Grafton Roundabout	17948	1.6	35.5	25242	1.3	35.0	25899	1.3	35.0	31114	1.0	34.1	31422	1.0	34.0
7017-1318	H5 Portway	12989	0.8	77.8	19428	0.7	77.2	19470	0.7	77.2	24052	0.6	72.5	24262	0.6	71.0
7017-4537	V6 Grafton Street	11421	1.7	56.2	14222	1.4	55.6	13702	1.5	55.6	16979	0.9	54.6	16938	0.9	54.6
7017-7015	N Grafton Roundabout	16567	2.2	42.3	20658	1.8	41.2	20789	1.8	41.3	24273	1.3	41.1	24361	1.3	41.2



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
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7060-1574	Wolverton Road	9589	0.8	44.5	12845	0.8	44.2	13987	0.9	44.6	18059	0.5	42.0	18256	0.6	42.1
7060-1673	Wolverton Road	10511	1.6	43.6	13823	1.4	43.4	14902	1.5	43.4	19375	0.8	40.2	19587	0.9	40.4
7060-6469	Selkirk Drive	1816	0.3	25.5	1807	0.3	25.5	1808	0.3	25.5	3138	0.2	24.9	3135	0.2	24.9
8001-1001	Stadium Way	1001	2.2	23.8	1250	1.9	24.2	1240	1.9	24.3	2573	1.0	24.3	2510	1.1	25.0
8002-1940	Asda	1223	0.3	25.1	1194	0.3	24.7	1191	0.3	24.7	1755	0.2	25.0	1834	0.2	25.3
8003-1003	Goslington	748	0.7	19.4	949	0.6	19.4	949	0.6	19.4	1984	0.3	20.5	2160	0.5	20.6
8006-1006	Ikea	854	1.2	48.0	1000	1.1	48.0	999	1.1	48.0	801	1.1	48.0	750	0.4	48.0
8010-1225	Rowditch Furlong	313	45.3	27.4	310	45.6	27.3	310	45.7	27.3	435	30.4	27.0	432	30.7	27.0
8010-4470	Rowditch Furlong	172	0.5	48.0	170	0.5	48.0	169	0.5	48.0	304	0.3	48.0	300	0.3	48.0
82345-9534	M1 Mainline	55917	19.6	107.4	73315	15.9	107.9	74448	16.6	107.8	89140	14.7	106.1	89000	15.5	106.0
82345-9535	M1 Mainline	46909	22.4	107.5	57897	18.7	108.3	58699	18.9	108.2	64013	15.2	107.6	63733	15.6	107.6
83460-9532	A5123	32870	3.4	93.6	40336	3.0	92.9	40318	3.0	92.9	47856	2.7	89.2	47905	2.8	89.2
85006-84015	Bedford Street	13265	7.1	39.1	14686	6.2	37.1	14485	5.9	37.1	16326	7.0	34.5	16294	6.9	34.5
90022-1902	Little Linford Lane	3917	0.6	65.3	5502	0.5	65.2	6024	0.5	65.1	10466	0.6	63.4	10789	0.5	63.3
90025-1925	Unnamed Road	6826	0.7	64.8	8149	0.5	64.2	7979	0.5	64.5	13904	0.6	62.0	13820	0.5	61.6
9002-7002	Hepburn Crescent	83	100.0	26.7	83	100.0	26.4	83	100.0	26.4	83	100.0	26.0	83	100.0	26.0



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90031-90030	Forest Road	4706	1.4	78.6	5960	1.6	77.8	6432	1.7	77.3	8516	1.3	74.2	8618	1.4	73.3
90032-90030	Wotton Road	6453	1.6	65.2	7967	1.6	64.8	7850	1.6	64.8	9578	0.7	63.9	9709	0.8	63.8
9003-4003	H6 Childs Way	1537	0.5	27.5	1668	0.5	27.5	1695	0.5	27.5	8145	0.2	26.8	7954	0.2	26.9
90064-9531	A43	25610	3.3	95.2	32881	2.8	94.9	33030	2.8	94.9	42897	2.4	94.7	43339	2.4	94.7
90070-90022	Unnamed Road	6975	0.5	64.4	8549	0.6	62.6	8519	0.5	62.8	9034	0.6	59.7	8392	0.5	59.4
90071-90070	B526 Horton Road	11388	0.5	78.9	14844	0.7	78.1	14609	0.8	78.2	20522	0.9	76.2	20919	0.8	75.9
90072-4557	Passenham Lane	6355	3.2	40.0	8744	1.9	40.0	8955	1.9	40.0	14174	0.8	40.0	14390	0.8	40.0
90075-1927	A509	24734	3.3	82.6	29051	2.2	81.1	31485	2.3	80.6	36763	1.4	78.4	37786	1.7	78.1
90075-90073	High Street	369	6.9	40.0	403	6.4	40.0	399	6.5	40.0	1070	2.4	40.0	971	2.7	40.0
90075-90074	A509	25202	3.4	82.4	29562	2.2	80.8	31991	2.3	80.4	38121	1.4	77.8	39018	1.7	73.3
90077-90076	Olney Road	1458	0.3	76.7	1642	0.5	76.2	1703	0.7	77.3	4145	0.3	73.9	4038	0.5	74.2
90078-1925	B526 Horton Road	13903	0.8	70.8	16484	0.8	68.6	17049	0.8	68.1	19569	0.7	61.7	20054	0.7	61.3
90078-90076	B526 Horton Road	8911	0.7	80.3	11277	0.8	79.9	11708	0.9	79.8	13998	0.8	75.4	14875	0.8	75.0
90078-90077	Unnamed Road	4992	0.9	64.4	5207	0.7	64.2	5342	0.7	64.1	5835	0.3	61.3	5688	0.3	61.2
90080-90079	Weston Road	1203	5.0	47.8	1231	5.0	47.7	1247	4.8	47.7	3043	2.0	47.3	2975	2.1	47.3
90081-90080	Aspreys	5801	1.8	46.6	6327	1.6	46.3	6512	1.6	46.3	9345	1.0	45.2	9449	1.0	45.2



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90082-90074	A509	27492	3.1	81.9	32849	2.0	80.1	35184	2.1	78.3	41854	1.3	72.2	42714	1.6	71.5
90082-90079	A509	18611	4.3	83.7	22552	2.7	82.4	24520	2.8	82.1	30186	1.7	79.7	30595	2.0	79.5
90088-1935	North Crawley Road	4525	1.2	66.3	5374	1.6	66.1	4685	2.1	66.3	9805	1.4	64.6	9722	1.5	64.8
90090-1937	Moulsoe Road	4643	2.6	63.6	5116	2.7	63.2	7374	2.4	62.7	8200	2.8	62.0	11819	2.7	60.5
90091-90090	Moulsoe Road	3321	3.5	61.3	3730	3.5	61.0	4672	3.6	60.9	4451	5.5	60.7	6208	4.6	60.5
90092-4514	Cranfield Road	8656	1.9	62.8	10841	1.7	62.0	10917	1.7	61.9	15230	1.9	56.6	16372	1.4	56.0
90092-90090	Cranfield Road	5315	2.2	62.5	7363	1.7	62.0	7360	1.7	62.0	10988	2.1	60.8	12514	1.4	60.2
90092-90091	Cranfield Road	3342	1.5	64.9	3478	1.5	64.8	3556	1.5	64.7	4243	1.3	64.4	3859	1.4	64.5
90098-4109	Station Road	535	6.5	64.1	579	6.4	63.8	589	6.4	63.8	732	5.2	63.6	671	5.8	63.7
9010-7012	Newington Gate	400	1.3	23.3	440	1.2	23.8	439	1.2	23.8	1083	0.5	24.8	1177	0.5	24.5
90136-90047	Unnamed Road	2669	4.0	63.6	3061	2.4	62.4	3004	2.4	62.3	3631	1.7	58.1	3597	1.7	58.2
90137-90034	Wicken Park Road	2538	0.6	63.9	2539	0.5	62.4	2449	0.5	62.4	3556	0.5	58.6	3537	0.5	58.7
90138-90042	Ouse Valley Way	994	1.0	63.8	1561	0.8	62.3	1558	0.8	62.1	3740	0.4	58.3	3732	0.4	58.2
90138-90136	A422 Stratford Road	24091	3.0	81.9	27855	2.4	80.3	28157	2.8	80.1	32103	1.7	77.5	32083	2.2	77.4
90138-90137	A422 Stratford Road	24823	3.0	80.8	29009	2.4	79.0	29322	2.7	78.8	34101	1.6	76.3	34157	2.1	76.2
90139-3580	A422 Stratford Road	27612	3.4	79.2	30747	2.9	77.8	31165	3.2	77.6	38837	1.7	72.6	38788	2.1	72.7



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90139-90033	Stratford Road	7530	0.7	39.3	8887	0.6	39.2	9068	0.6	39.1	11413	0.4	36.8	11568	0.4	36.8
90139-90072	Passenham Lane	6355	3.2	50.6	8744	1.9	50.0	8956	1.9	50.1	14174	0.8	48.3	14390	0.8	48.2
90139-90137	A422 Stratford Road	21602	3.3	82.2	25788	2.6	80.8	26216	3.0	80.6	29826	1.8	78.9	29903	2.3	78.8
90144-90143	A508 Northampton Road	21967	2.8	73.6	22739	2.5	72.6	22861	2.4	72.6	24538	2.2	70.3	24623	2.2	70.1
90144-9513	A508 Northampton Road	21295	2.8	74.9	21056	2.6	74.5	21639	2.6	74.4	22407	2.3	73.2	22690	2.3	73.1
90146-90144	Unnamed Road	1541	3.6	64.2	2714	2.2	63.2	2845	2.5	62.9	4399	1.1	58.7	4242	1.1	58.0
90165-80375	A509 Warrington Road	12317	4.9	62.4	14095	3.1	61.2	14891	3.2	61.1	15973	1.9	60.1	16334	2.2	60.0
90165-90081	Drift Way	5580	1.0	46.6	6077	0.8	46.4	6256	0.9	46.4	9424	0.4	45.4	9377	0.5	45.4
90165-90084	B565 Lavendon Road	6296	1.5	65.9	7093	1.3	65.6	7176	1.5	65.6	11919	0.8	63.8	12095	0.8	63.8
90174-9428	Ivy Lane	2398	7.3	51.4	5727	4.9	51.3	5788	6.7	51.3	11897	2.7	49.5	11726	3.0	49.5
90180-4565	Woburn Road	2678	1.0	81.6	4496	0.6	81.3	4305	0.7	81.3	6329	0.9	80.8	6450	0.9	80.8
90180-90179	Church Road	3749	1.1	52.2	7185	1.9	51.0	7225	3.0	51.0	9855	0.7	49.2	9971	0.8	49.2
90239-90081	B5388 Yardley Road	3599	1.9	81.9	4794	1.7	81.8	5457	1.8	81.7	10776	1.2	80.9	10347	1.6	81.0
90248-90079	B565 High Street	14995	4.2	42.7	18096	2.6	41.7	19595	2.8	41.5	24564	1.6	39.8	24734	2.0	39.7
90248-90081	B5388 Yardley	3425	1.9	47.2	4592	1.7	46.9	5265	1.9	46.8	9936	1.3	45.5	9654	1.7	45.5
90248-90165	B565 High Street	13033	5.0	43.5	15111	3.2	42.8	15810	3.4	42.8	18467	2.0	41.8	19052	2.2	41.7



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90256-4008	A507 Ridgmont Bypass	15038	11.3	80.3	17080	10.1	79.8	16948	10.5	79.7	16418	10.0	79.5	16158	10.5	79.6
90258-2073	Old Road	171	24.5	30.4	611	7.2	30.3	560	7.9	30.3	3071	7.9	29.0	3314	6.3	28.8
90258-4483	Soulbury Road	33	70.7	41.3	194	12.1	42.4	352	6.7	39.0	1265	3.2	37.6	1543	4.5	36.7
90260-3125	A5	3394	0.9	79.7	5244	0.6	78.7	5284	0.6	78.6	5873	0.5	76.1	5920	0.5	76.2
90262-90259	Unnamed Road in Little Brickhill	2506	1.1	68.3	5403	3.1	66.8	5493	4.9	67.0	10012	0.8	64.5	9839	1.1	64.4
90262-90260	Unnamed Road in Little Brickhill	6783	0.9	64.5	12142	1.8	61.2	12297	2.6	61.1	17559	0.9	57.3	17463	1.0	57.1
90262-90261	A5	4277	0.8	76.9	6739	0.7	76.3	6803	0.7	76.3	7356	0.9	75.8	7432	0.9	75.8
90264-6006	A5	181	14.5	77.3	229	11.4	77.0	231	11.3	77.0	976	2.5	76.8	954	2.6	76.7
90264-90178	Unnamed Road in Little Brickhill	7765	0.7	61.3	12929	1.4	58.9	13005	2.0	58.9	15345	0.8	55.8	15406	0.9	55.0
90264-90260	Unnamed Road in Little Brickhill	7863	1.0	56.4	12984	1.5	55.9	13058	2.1	55.9	14902	1.0	52.0	14970	1.1	52.0
9068-1068	Cairngorm Gate	780	0.8	19.4	819	0.8	19.2	828	0.8	19.2	1246	0.5	17.2	1193	0.6	17.0
9069-1394	Oldbrook Boulevard	9711	0.5	29.1	8488	0.5	28.8	8747	0.5	28.8	12366	0.3	25.4	12273	0.3	25.0
9069-1797	Oldbrook Boulevard	8929	0.5	35.5	7506	0.6	35.1	7590	0.6	35.3	10862	0.4	33.8	10870	0.3	33.7
9069-3003	Oldbrook Boulevard	782	0.0	37.3	983	0.0	35.3	1157	0.0	34.8	1504	0.0	34.9	1403	0.0	35.0
91007-83930	A422 Stratford Road	24753	3.3	81.7	28974	2.4	80.1	29185	2.8	79.9	33074	1.7	77.7	33069	2.1	77.7



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91007-90043	Unnamed Road	2081	1.4	61.5	1924	2.2	60.2	1936	2.2	61.0	2492	2.1	54.9	2473	2.1	55.5
91007-90136	A422 Stratford Road	27212	3.2	75.3	31415	2.4	72.8	31642	2.8	72.6	36011	1.7	69.2	35977	2.1	69.0
91021-90029	Forest Road	4445	0.9	51.8	5473	1.1	51.6	5336	1.0	51.6	6863	0.7	51.3	6809	0.8	51.3
91021-90030	Forest Road	4880	0.3	67.8	5837	0.6	67.1	5700	0.5	67.1	6932	0.4	64.4	6949	0.5	64.4
9103-1469	Heywood Gate	995	0.7	41.1	1046	0.7	40.4	1047	0.7	40.4	1631	0.4	38.1	1540	0.4	38.7
91031-90022	Little Linford High Street	5113	0.3	65.6	6575	0.5	65.1	6689	0.4	65.1	9259	0.7	63.4	9133	0.6	63.4
91032-1599	Haversham Road	16226	0.7	75.9	20005	0.8	74.7	20044	0.7	74.7	24350	0.5	72.6	24192	0.5	72.7
91037-90069	Towcester Road	11127	9.4	62.8	13825	8.9	62.2	10618	9.4	62.1	19279	8.2	60.6	15331	8.4	60.5
91041-91038	A45 London Road	20488	3.6	95.4	22723	3.2	95.2	22543	3.3	95.3	25242	2.8	95.1	25144	2.8	95.1
91045-91039	B526 Newport Pagnell Road	3907	0.7	40.0	4049	0.8	40.0	4042	0.8	40.0	4654	0.8	40.0	4864	0.7	40.0
91046-91039	B526 Newport Pagnell Road	4643	0.7	26.3	5340	0.6	26.2	5380	0.6	26.2	6614	0.6	26.1	6677	0.6	26.1
91046-91040	A45 London Road	2128	3.1	82.6	1982	3.1	82.1	2007	3.1	82.1	2092	2.5	81.3	2024	2.6	81.3
91046-91045	Queen Eleanor Roundabout	16166	12.9	23.2	18554	12.1	23.0	18605	12.1	23.0	21035	4.2	22.8	20974	4.1	22.8
91047-91041	A45 London Road	2354	12.4	56.8	2945	11.3	56.8	2972	11.3	56.8	4113	7.8	56.7	4134	7.8	56.7
91047-91042	A5076 Mereway	16667	12.2	60.0	19980	11.0	59.0	20093	11.0	58.9	24243	3.6	58.0	24357	3.5	58.0



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91047-91046	Queen Eleanor Roundabout	18680	11.0	29.8	21911	10.1	28.9	21977	10.1	28.9	25557	3.4	27.9	25627	3.3	27.8
91048-91047	Queen Eleanor Roundabout	4364	7.0	26.8	4872	7.1	26.8	4851	7.2	26.8	5406	6.1	26.9	5384	6.1	26.9
91049-91041	A45 London Road	25938	4.5	97.3	29147	4.1	96.6	28975	4.2	96.6	33335	3.5	95.5	33247	3.5	95.5
91051-91049	A45 London Road	18252	5.9	97.3	19332	5.6	96.9	19226	5.7	96.9	20042	5.0	96.4	20046	5.0	96.4
91051-91050	A45 London Road	2884	2.7	32.0	3227	2.8	31.9	3637	2.6	31.9	4312	2.3	31.8	4485	2.5	31.8
91051-9515	A45 London Road	21528	5.4	98.2	22997	5.1	97.8	23357	5.2	97.7	24938	4.5	97.4	25139	4.5	97.3
91052-91040	A45 London Road	28374	4.4	97.0	32343	4.2	96.0	32097	4.3	96.1	36456	4.1	94.5	36508	4.0	94.5
91053-91050	Wooldale Road	11629	1.6	32.0	13969	1.5	31.7	14281	1.5	31.7	17866	1.4	30.9	17999	1.5	30.9
91053-91052	A45 London Road	6048	1.0	34.3	6861	1.2	33.8	6876	1.2	33.7	7811	0.7	31.9	7722	0.7	31.8
91054-91052	A45 London Road	18938	5.5	96.2	21621	5.1	96.1	21388	5.2	96.1	24293	5.2	96.0	24427	5.1	96.0
91054-9516	A45 London Road	21469	5.1	46.8	23678	4.9	43.8	23555	5.0	43.8	26238	5.0	41.0	26384	5.0	40.9
91055-91038	A45 Nene Valley Way	1447	0.0	63.0	1275	0.0	62.7	1258	0.0	62.7	924	0.0	62.1	827	0.0	62.1
91055-91044	A45 Nene Valley Way	14739	10.8	95.8	16127	4.7	95.6	16035	4.9	95.6	16202	5.1	95.5	16036	5.2	95.6
91056-91034	A45 Nene Valley Way	33469	6.4	105.3	36929	3.7	104.8	36668	3.9	104.8	39535	3.6	104.3	39291	3.6	104.3
91056-91038	A45 Nene Valley Way	24909	3.4	92.2	27250	3.0	91.1	27026	3.1	91.2	29710	2.7	90.1	29488	2.7	90.2



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
91056-91055	A45 Nene Valley Way	11532	12.2	74.5	12926	5.1	73.9	12863	5.4	73.9	13344	5.5	73.0	13294	5.5	73.1
91057-91040	A45 London Road	25957	4.5	97.3	30092	4.3	96.4	29817	4.3	96.4	34080	4.2	95.0	34210	4.1	95.0
91060-91044	Queen Eleanor Roundabout	3782	2.2	29.4	4386	1.8	29.4	4406	1.9	29.4	4944	1.5	29.3	5091	1.4	29.3
91060-91045	Queen Eleanor Roundabout	20073	10.5	39.1	22603	10.1	39.1	22646	10.1	39.1	25689	3.5	39.0	25838	3.4	39.0
91060-91057	A45 Nene Valley Way	16288	12.4	61.8	18213	12.0	60.2	18237	12.1	60.1	20743	4.0	58.6	20746	3.9	58.7
91061-91034	A45 Nene Valley Way	33469	6.4	105.3	36929	3.7	104.8	36668	3.9	104.8	39535	3.6	104.3	39291	3.6	104.3
91061-91057	A45 Nene Valley Way	39146	7.8	102.5	44713	7.4	101.0	44495	7.5	101.0	50755	4.2	99.2	50871	4.1	99.2
91061-91058	A45 Nene Valley Way	72616	7.2	104.9	81642	5.8	104.0	81162	5.9	104.1	90291	3.9	103.1	90162	3.9	103.1
91062-91050	Rowtree Road	7781	1.4	34.8	8707	1.3	34.7	8795	1.3	34.7	9847	1.3	34.1	9954	1.4	34.1
91062-91059	Rowtree Road	11211	1.3	39.9	13130	1.1	39.9	13246	1.1	39.9	16079	1.1	39.8	16186	1.1	39.8
91063-91049	A45 London Road	6775	1.1	59.1	8665	1.0	58.9	8605	1.0	58.9	11760	0.9	58.7	11679	0.9	58.7
91063-91050	A45 London Road	3345	1.3	33.9	4242	1.3	33.6	4153	1.3	33.6	5529	1.1	32.8	5449	1.1	32.8
91063-91062	Rowtree Road	3430	1.0	31.7	4423	0.8	31.6	4452	0.8	31.6	6232	0.6	31.3	6232	0.6	31.3
91064-91053	Unnamed Road	1661	3.0	55.6	1350	3.4	55.6	1438	3.5	55.6	1177	4.0	55.6	1165	4.4	55.5
91064-91054	Unnamed Road	2530	2.5	90.6	2056	3.0	90.6	2165	3.0	90.6	1940	3.1	90.6	1952	3.3	90.6



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
91065-90147	Wooldale Road	10395	1.5	60.2	12613	1.6	60.0	12879	1.6	59.9	16624	1.2	59.6	16736	1.3	59.6
91065-91053	Wooldale Road	9526	1.5	51.7	11907	1.6	51.8	12151	1.6	52.2	15862	1.2	52.2	15949	1.3	52.3
91065-91064	Wooldale Road	869	1.7	48.9	706	2.0	48.9	727	2.0	48.9	762	1.6	48.9	787	1.6	48.9
91066-90146	Wotton Road	10592	1.5	58.6	13684	1.4	56.9	13822	1.4	57.0	17642	1.0	54.4	17642	1.0	54.6
91066-90147	Quinton Road	10556	1.3	78.8	13541	1.3	78.2	13696	1.3	78.2	17489	0.9	77.0	17543	1.0	77.0
91067-91066	School Lane	36	79.3	47.3	143	14.5	47.2	126	16.5	46.9	156	9.2	46.1	99	7.2	45.2
91068-90030	Wotton Road	10032	1.4	64.5	12020	1.5	63.7	12523	1.6	63.5	15470	1.1	61.7	15697	1.2	61.5
91068-90146	Wotton Road	10259	1.4	60.2	12193	1.6	59.7	12829	1.6	59.6	16003	1.1	58.4	16215	1.2	58.3
91068-91067	School Lane	227	0.0	48.5	174	5.5	46.9	306	3.1	49.0	536	2.2	48.2	516	3.8	49.3
91071-90160	B526 Horton Road	2320	0.5	63.7	2803	0.6	63.6	2742	0.6	63.6	3296	0.4	63.6	3727	0.5	63.6
91073-90160	Brafield Road	3668	0.7	45.1	5140	0.6	44.5	5161	0.6	44.6	7443	0.4	43.9	7972	0.4	43.8
91073-91072	Brafield Road	2873	0.6	53.2	4087	0.5	52.9	4129	0.6	52.9	5459	0.4	52.6	5907	0.4	52.6
91074-91073	Denton Road	795	1.0	51.4	1053	0.8	51.4	1032	0.8	51.3	1984	0.3	51.7	2066	0.3	51.6
91075-90031	B526 Horton Road	4772	0.7	81.5	6577	0.6	81.2	6534	0.6	81.2	9010	0.4	80.9	10004	0.4	80.7
91075-90160	B526 Horton Road	4772	0.7	51.7	6577	0.6	51.4	6534	0.6	51.4	9010	0.4	50.7	10004	0.4	50.5
91076-90031	B526 Horton Road	8341	0.8	80.9	10857	0.9	80.5	11354	1.0	80.4	13590	0.9	79.8	14341	1.0	79.6



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		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
91076-90076	B526 Horton Road	10369	0.7	51.9	12920	0.8	51.4	13411	0.9	51.2	16864	0.8	50.0	17630	0.8	49.8
91077-70035	A421	24708	6.6	57.1	26679	5.1	55.7	26953	5.2	55.4	19874	3.2	55.7	20055	3.6	55.6
91077-91000	A421	24440	5.7	81.1	26457	4.7	79.9	26521	4.6	79.8	30124	1.6	78.2	30237	1.6	78.2
91079-1904	Pennycress Way	5862	0.6	37.2	6022	0.7	36.7	5726	0.7	36.5	7938	0.4	34.9	7572	0.5	35.2
91080-83930	A422 Stratford Road	4236	2.4	59.8	6327	2.5	59.7	6398	2.8	59.7	12254	1.8	57.6	12224	2.1	57.3
91081-90071	Tyringham Road	2233	0.1	63.5	3187	0.1	62.3	3140	0.1	62.7	3895	0.1	58.5	3873	0.1	58.0
91081-90074	Tyringham Road	2238	0.1	66.8	3224	0.1	66.6	2314	0.1	66.6	4086	0.1	66.5	3108	0.1	66.4
91082-90077	Olney Road	6450	0.8	64.5	6850	0.7	64.2	7045	0.7	64.1	9981	0.3	62.4	9727	0.4	62.5
91082-90080	Olney Road	6159	0.8	65.8	6675	0.7	65.6	3617	0.9	65.9	10616	0.3	64.1	6415	0.4	64.5
91083-1900	Linford Avenue	195	2.8	37.4	221	2.8	37.6	205	2.6	37.8	2357	0.5	34.4	2278	0.5	34.7
91084-1229	Sherington Road	6067	1.3	79.1	7762	1.5	77.8	6925	1.7	78.5	8859	1.7	71.7	8503	1.5	74.0
91085-91084	Sherington Road	1663	0.8	37.2	1798	0.8	37.1	1687	0.9	37.3	3181	0.5	36.8	2881	0.5	37.0
91086-1926	A422 Newport Road	13027	3.1	61.6	14247	2.8	61.0	15602	2.6	60.6	15548	2.4	59.8	16831	2.4	59.3
91087-1926	Chicheley Road	1707	0.9	65.7	2804	0.8	65.4	2479	0.8	65.5	6783	1.7	63.9	4326	0.7	64.9
91087-90088	Chicheley Road	3324	1.0	48.5	4141	0.9	48.6	3793	1.0	49.6	9529	1.3	47.1	6542	0.7	48.2
91088-90088	Crawley Road	4646	1.1	46.6	7010	1.4	45.6	5890	1.8	45.8	15991	1.5	41.0	12388	1.4	44.1



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		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
91089-90089	Crawley Road	2692	1.5	66.5	3766	2.1	66.3	3810	2.4	66.3	7880	1.6	65.2	7313	2.0	65.3
91089-91088	Crawley Road	2692	1.5	53.0	3766	2.1	52.7	3810	2.4	52.9	7880	1.6	52.1	7313	2.0	52.2
91090-90089	Crawley Road	6230	1.7	57.6	8935	1.8	56.2	8767	1.9	56.3	14561	1.5	52.9	13857	1.7	53.3
91091-1937	Cranfield Road	4577	2.4	65.5	4741	2.7	65.4	7121	2.4	64.6	7606	2.8	64.4	10944	2.8	63.2
91092-1629	Moulsoe Road	5370	2.2	64.0	5312	2.5	64.0	0	0.0	0.0	8284	2.6	63.0	0	0.0	0.0
91092-91091	Cranfield Road	5370	2.2	52.8	5312	2.5	52.7	7715	2.2	52.5	8284	2.6	52.1	11882	2.6	51.5
91093-1937	Unnamed Road	118	0.1	65.5	708	1.0	65.2	286	0.0	65.3	4916	0.4	64.3	1196	0.8	65.4
91094-91093	Folly Lane	1877	0.4	44.5	2701	0.6	44.3	1831	0.8	44.5	5680	2.0	43.4	4157	0.5	43.8
91095-90089	College Road	3573	2.8	65.0	5399	2.2	64.4	4992	2.2	64.5	7585	1.6	62.6	6579	1.9	62.6
91096-91090	Astwood Road	1606	0.4	60.6	2703	0.5	60.3	2407	0.4	60.0	4560	0.6	57.5	3936	0.4	59.7
91097-91088	Folly Lane	1954	0.4	50.8	3244	0.5	50.4	2080	0.7	51.2	8113	1.5	48.6	5075	0.5	49.4
91097-91093	Folly Lane	1954	0.4	53.3	3244	0.5	53.0	2080	0.7	53.3	8113	1.5	51.4	5075	0.5	52.5
91098-91087	Orchard Way	2633	0.7	38.2	2675	0.8	38.2	2705	0.8	38.2	5148	0.4	37.9	5194	0.4	38.0
91099-91091	Road off Cranfield Road	981	0.9	37.1	957	0.9	37.0	1004	0.9	36.9	1796	0.5	36.5	1875	0.5	36.4
91100-90090	University Way	9980	2.4	39.0	11348	2.2	39.0	12197	2.1	38.8	12486	2.9	38.9	13183	2.0	38.6
91100-91094	University Way	211	48.7	45.2	759	14.3	45.2	492	21.9	45.1	2099	9.3	44.9	2253	4.9	45.0



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91101-4019	Upper Shelton Road	65	100.0	66.6	65	100.0	66.6	65	100.0	66.6	63	100.0	66.5	401	15.9	66.2
91102-90091	Bedford Road	6663	2.5	44.7	7208	2.6	44.5	8229	2.7	44.2	8697	3.4	44.2	10070	3.3	43.6
91102-90093	Bedford Road	2018	6.6	47.3	2775	5.4	47.2	3410	5.5	47.0	4770	5.6	46.7	5712	5.3	46.5
91103-91102	Court Road	8431	1.2	37.3	9037	1.2	37.1	9107	1.2	37.2	9426	1.2	36.6	9538	1.2	36.6
91105-90093	Crane Way	5093	2.0	44.0	6750	2.2	43.6	6878	2.4	43.3	11359	1.7	41.7	10845	2.1	41.8
91105-91104	Bourne End Road	469	0.6	51.7	519	0.6	51.6	518	0.6	51.6	1355	0.3	52.1	924	0.4	52.3
91106-91090	Crawley Road	4624	2.2	65.3	6231	2.4	64.8	6360	2.5	64.9	10005	1.9	63.6	9922	2.3	63.6
91106-91105	Crawley Road	4624	2.2	46.7	6231	2.4	46.2	6360	2.5	46.1	10005	1.9	45.0	9922	2.3	45.0
91107-4019	Marston Hill	5389	4.2	64.2	7486	3.9	63.6	8563	4.0	63.1	11880	3.8	61.5	13482	3.9	60.3
91107-90093	Marston Hill	5389	4.2	45.9	7486	3.9	45.2	8563	4.0	45.0	11880	3.8	43.8	13482	3.9	43.2
91114-90256	Ridgmont Road	2549	0.2	77.1	3866	0.1	77.0	3937	0.1	77.4	5731	0.1	75.9	5629	0.1	76.5
91114-91112	Ridgmont Road	2549	0.2	52.7	3866	0.1	52.3	3937	0.1	52.4	5731	0.1	52.0	5629	0.1	52.0
91117-9425	Woodside	2093	3.8	37.9	2442	3.5	37.7	2417	3.5	37.7	2676	3.4	37.4	2649	3.4	37.3
91118-84015	Newport Road	5759	1.5	80.4	10811	0.9	79.5	10468	0.9	79.6	14320	1.9	78.3	14845	1.9	78.1
91118-90180	Woburn Road	6099	1.1	71.9	11120	1.4	70.6	10972	2.2	70.6	13555	0.8	69.3	13834	0.9	69.2
91118-9425	Aspley Lane	1644	2.9	65.0	4636	3.7	63.9	4485	5.7	64.0	6652	3.9	62.2	7213	3.9	61.9



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91122-2068	Aspley Hill	3850	1.9	39.3	6189	1.8	39.2	6095	1.8	39.2	6905	1.8	39.1	6983	1.9	39.1
91123-4109	B5704 Mill Road	1004	4.1	81.1	4358	7.0	80.6	4196	6.6	80.6	6695	8.3	80.4	6382	7.9	80.4
91126-84015	B5704 Crawley Road	8582	10.0	47.9	8406	9.8	46.1	8708	8.7	46.2	8530	10.6	44.1	8354	10.3	44.2
91136-90259	Watling Street	2079	1.9	42.0	4329	3.5	42.1	4390	5.3	42.1	8007	1.0	41.3	7878	1.3	41.4
91137-91136	Woburn Road	1385	0.4	37.9	1438	0.4	37.9	1440	0.4	37.9	2715	0.2	37.3	2703	0.2	37.3
91138-90259	Watling Street	204	10.2	72.9	225	8.7	72.6	234	8.4	72.6	418	4.4	72.2	419	4.3	72.2
91138-90261	A5	12317	3.6	99.1	15479	2.8	98.8	15670	2.7	98.8	18225	2.1	98.3	18183	2.1	98.3
91139-90174	Pound Hill	1424	2.0	51.2	3531	4.0	50.3	3617	6.2	50.3	6569	1.2	49.4	6465	1.4	49.3
91141-90174	Lower Way	974	15.0	52.7	2197	6.4	52.4	2172	7.5	52.4	5370	4.6	51.4	5302	4.9	51.4
91145-6006	A5	11761	4.3	99.8	14614	3.7	99.6	14639	3.7	99.6	15342	2.4	99.4	15559	2.3	99.4
91146-3124	A5	16623	3.0	80.7	21977	2.3	79.4	22231	2.2	79.3	26094	1.8	73.7	26187	1.7	73.9
91151-2073	West Street	733	90.4	42.9	846	71.9	42.8	739	68.5	42.5	4507	10.6	42.9	4750	9.9	42.9
91151-90238	Leston Road	4203	11.2	36.0	5994	8.2	35.9	6193	8.7	35.8	11445	4.0	35.3	11534	4.0	35.3
91151-91150	Heath Road	4662	21.5	45.7	6273	14.4	45.5	6374	13.3	45.5	7948	9.4	45.1	7762	9.4	45.2
91154-90238	Hockliffe Street	9105	2.2	40.8	9811	2.2	40.7	9959	2.8	40.6	10308	3.4	40.4	10690	3.7	40.4
91156-2073	Wing Road	796	79.5	43.1	1175	49.0	42.1	1016	46.6	42.6	3023	21.3	40.8	2682	22.3	41.0



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91157-91156	Bunkers Lane	8177	5.4	37.9	9750	5.4	37.2	9791	4.9	37.7	10906	5.2	36.7	10525	4.6	36.8
91159-83955	Billington Road	22012	3.9	42.1	23523	3.9	41.5	18454	4.1	41.5	25538	4.5	41.0	19137	5.2	41.1
91161-91156	Wing Road	8745	12.4	44.5	10680	9.6	43.9	10792	8.9	43.9	12709	9.2	43.4	12801	8.5	43.3
91162-90238	Lake Street	10695	3.1	42.6	12485	2.7	42.1	12749	2.5	42.1	16047	2.3	41.3	16101	2.6	41.3
91162-91159	Billington Road	10646	3.1	43.6	12363	2.7	42.6	12624	2.5	42.6	14559	2.5	41.0	14659	2.8	41.0
91163-90258	Stoke Road	138	13.4	47.0	714	2.9	45.8	821	2.5	46.1	3737	6.3	43.3	3878	6.0	43.1
91185-83930	Page Hill Avenue	7371	0.5	36.8	8614	0.4	36.3	8734	0.4	36.2	10397	0.2	33.7	10384	0.2	33.7
91186-83930	A413	23470	3.2	73.7	24959	2.3	72.7	25191	2.6	72.5	25930	1.3	67.7	25879	1.7	67.6
91186-91077	A413	22085	4.0	60.6	23024	3.1	59.3	23270	3.4	59.0	20684	2.3	54.1	20703	2.8	54.0
91187-91186	Bourton Road	8972	1.3	36.5	10239	1.2	36.3	10194	1.2	36.3	23009	0.5	33.4	22892	0.5	33.3
91195-1229	B526 Northampton Road	9452	0.6	79.8	12048	0.8	79.3	12207	0.9	79.3	17555	1.0	77.7	18321	0.9	77.4
91195-90071	B526 Horton Road	9374	0.6	80.6	12011	0.8	80.2	12168	0.9	80.1	17597	1.0	78.7	18320	0.9	78.5
91196-91195	Church Lane	721	0.3	37.8	1089	0.2	37.7	1087	0.2	37.8	1460	0.2	36.8	1459	0.2	36.6
91197-1925	B526 Horton Road	12945	0.7	44.5	15298	0.8	43.9	15767	0.9	43.9	19733	0.9	42.1	20222	0.9	41.9
91197-90070	B526 Horton Road	13206	0.7	42.7	15547	0.8	41.3	16017	0.9	41.1	20027	0.9	39.3	20527	0.8	39.0
91202-91076	Church Lane	2836	0.3	37.1	2919	0.3	36.8	2917	0.3	36.8	5570	0.2	35.4	5560	0.2	35.1



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91206-91094	College Road	2076	5.1	41.3	3417	3.3	41.3	2298	4.7	42.0	6114	2.0	40.7	5280	2.2	41.5
91206-91095	College Road	3573	2.8	45.3	5399	2.2	44.9	4992	2.2	44.8	7585	1.6	44.4	6579	1.9	44.6
91207-91206	Prince Philip Avenue	5283	1.7	38.7	7269	1.4	38.7	6379	1.6	40.0	8743	1.0	38.6	8313	1.3	39.9
91208-1676	Bedford Road	11489	8.8	61.2	11388	7.3	60.6	11500	7.7	60.5	10735	6.5	59.6	11657	6.5	59.3
91208-4609	Bedford Road	11489	8.8	57.3	11388	7.3	53.6	11500	7.7	53.6	10735	6.5	51.2	11657	6.5	50.8
91209-91208	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
91216-91021	Stoneway	6740	0.6	37.6	7287	0.6	37.5	7287	0.6	37.5	7477	0.6	37.1	7480	0.6	37.1
91217-91039	B526 Newport Pagnell Road	8550	0.7	38.6	9390	0.7	38.7	9422	0.7	38.7	11269	0.6	38.7	11541	0.7	38.7
91226-2072	Stoke Road	1805	1.7	65.2	1806	1.7	65.4	1794	1.8	65.4	2795	3.3	64.9	2947	3.1	64.9
91229-91084	Chicheley Hill	6520	1.1	80.0	8216	1.3	79.7	7504	1.4	79.8	10736	1.4	78.8	9730	1.2	79.0
91230-1927	A509	18930	3.4	77.8	21596	2.2	76.4	24141	2.3	75.8	25579	1.4	74.4	27108	1.7	73.8
91230-91229	Chicheley Hill	1283	0.1	33.2	1261	0.1	32.8	789	0.3	32.4	970	0.3	32.4	427	0.6	32.0
91231-1926	A422 Newport Road	14676	2.8	57.9	17000	2.4	56.3	18063	2.4	56.0	22239	2.2	51.4	21010	2.1	50.6
91232-91231	A422 Newport Road	4328	4.1	58.2	3970	4.1	58.2	4601	4.0	58.1	4391	3.2	58.0	6664	3.1	57.6
91233-91229	Chicheley Hill	3133	1.4	40.0	4443	1.5	40.0	4289	1.5	40.0	5486	1.3	40.0	4181	1.3	40.0
91234-91229	Chicheley Hill	2105	1.2	40.6	2512	1.4	40.0	2425	1.6	39.1	4279	1.8	39.0	5121	1.2	37.8



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91234-91230	A509	7923	3.6	39.6	8725	2.4	39.1	10836	2.6	38.5	9586	1.6	38.7	10856	1.8	38.1
91234-91233	Chicheley Hill Roundabout	12596	3.5	38.7	13206	2.5	38.3	16642	2.5	37.7	13416	1.8	37.9	15288	1.9	37.3
91235-91230	A509	9726	3.6	52.9	11611	2.4	52.2	12516	2.1	52.0	15025	1.3	50.9	15817	1.6	50.6
91235-91234	Chicheley Hill Roundabout	6777	2.7	42.9	6990	2.4	42.8	8229	2.2	42.7	8110	1.9	42.6	9552	1.7	42.4
91236-91231	A422 Newport Road	7142	2.6	48.0	7980	2.2	48.0	8871	2.0	48.0	10270	1.8	48.0	10187	1.7	48.0
91236-91235	Chicheley Hill Roundabout	16507	3.2	41.2	18604	2.4	40.8	20745	2.1	40.2	23125	1.6	39.8	25366	1.6	38.2
91237-91231	A422 Newport Road	3206	1.5	34.8	5050	1.5	34.1	4591	1.5	33.6	7578	2.1	31.6	4137	1.5	31.5
91237-91232	A509	9365	3.7	48.0	10623	2.5	47.3	11874	2.2	46.9	12855	1.4	46.0	15179	1.6	44.7
91237-91233	Chicheley Hill Roundabout	3206	1.5	44.5	5050	1.5	44.3	4591	1.5	44.3	7482	2.1	44.2	3992	1.5	44.3
91237-91236	Chicheley Hill Roundabout	9365	3.7	39.3	10623	2.5	38.8	11874	2.2	38.4	12855	1.4	37.7	15179	1.6	36.4
9332-1332	A509 Portway	26475	4.4	40.2	26657	3.9	39.4	27859	4.0	39.3	27984	3.0	38.3	28540	2.9	38.2
9332-5021	A509 Portway	30064	4.4	97.2	30271	3.9	96.4	31636	4.0	96.2	31777	3.0	94.7	32409	2.9	94.8
9333-1704	A5	54308	2.5	98.1	60283	2.7	97.2	60865	2.7	97.1	67849	2.1	95.9	68489	2.3	95.9
9333-3102	A5	54308	2.5	98.1	60283	2.7	97.2	60865	2.7	97.1	67849	2.1	95.9	68489	2.3	95.9
9334-3101	Towcester Road	14947	2.9	48.0	19012	2.1	48.0	19193	2.3	48.0	25759	1.4	48.0	25929	1.4	48.0



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9336-3012	South Row	1299	0.6	14.7	5042	0.1	13.8	5056	0.2	13.7	3969	0.1	11.9	3962	0.1	11.9
9337-1661	Elder Gate	3471	2.9	37.2	6307	1.8	38.1	6541	1.7	38.0	7457	1.5	37.1	7381	1.5	37.3
9337-2053	Elder Gate	3471	2.9	46.2	6307	1.8	45.5	6541	1.7	45.6	7457	1.5	42.2	7381	1.5	42.1
9339-5937	V6 Grafton Gate	3014	2.2	44.4	2372	1.6	39.7	2451	2.0	39.7	3090	0.9	37.9	3159	1.2	38.0
9340-5108	Halesworth Avenue	3307	0.0	44.1	3166	0.0	42.9	2886	0.0	43.0	5677	0.0	42.8	6043	0.0	42.5
9348-1521	Aylesbury Street	8878	3.5	31.0	12093	3.0	30.7	12193	3.1	30.7	16503	1.7	29.8	16239	1.8	29.7
9348-1535	Manor road	8938	3.5	29.9	12202	3.0	29.3	12305	3.0	29.3	16417	1.7	26.4	16170	1.8	26.4
9349-9348	Manor Road	263	1.6	42.3	371	1.2	42.4	372	1.2	42.3	554	0.7	39.3	541	0.7	39.5
9350-1622	Browne Willis Close	726	1.1	40.3	772	1.1	40.6	772	1.1	40.6	1236	0.7	41.7	1248	0.7	41.6
9354-1523	V4 Watling Street	16309	2.0	54.0	18453	2.1	53.6	18703	2.0	53.6	19339	1.4	53.1	19361	1.5	53.1
9355-9354	V4 Watling Street	1388	0.0	40.3	1495	0.0	39.6	1446	0.0	39.6	2387	0.0	39.7	2263	0.0	40.1
9356-1500	V7 Saxon Street	29525	2.3	87.7	35552	2.0	86.9	35544	2.0	86.9	43793	1.4	79.2	44488	1.4	79.1
9356-1501	The Roman Roundabout	19654	2.4	21.8	20189	2.4	21.7	20276	2.4	21.7	26041	1.5	20.7	25934	1.6	20.7
9356-4167	The Roman Roundabout	20553	1.9	29.2	24387	1.9	28.8	24361	1.9	28.8	28075	1.4	27.6	27664	1.5	27.7
9356-9354	V4 Watling Street	17697	1.8	49.7	19947	1.9	48.4	20149	1.9	48.5	21714	1.3	44.7	21595	1.3	44.9
9357-1464	Drew Court	594	0.5	47.6	486	0.5	47.6	486	0.5	47.6	573	0.2	47.1	586	0.2	47.2



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9358-1423	H8 Standing Way	45444	2.6	97.0	45901	2.3	96.7	45478	2.2	96.7	43745	0.8	90.8	44159	0.8	90.8
9363-1420	V3 Fulmer Street	7636	0.5	61.9	8985	0.5	61.9	9099	0.5	61.8	13786	0.2	61.6	14075	0.2	61.6
9365-1428	V6 Grafton Street	24517	1.6	88.1	26852	1.4	88.3	26780	1.4	88.3	43487	0.9	86.3	42972	0.9	86.3
9365-1429	V6 Grafton Street	23229	1.7	75.4	25542	1.5	74.8	25477	1.5	74.8	40554	0.9	75.7	40006	1.0	75.7
9365-6274	Summerson Road	4109	1.4	40.5	4169	1.4	39.9	4174	1.4	39.8	5920	0.9	35.9	5941	0.9	36.0
9366-1427	V6 Grafton Street	22697	1.7	88.7	24933	1.4	88.8	24782	1.4	88.8	39945	0.9	87.0	39245	0.9	87.1
9366-1428	V6 Grafton Street	23161	1.7	98.1	25064	1.5	98.1	25025	1.4	98.1	39560	0.9	97.4	39034	0.9	97.4
9366-6273	Phoenix Drive	1505	0.7	31.2	2169	0.5	28.4	2213	0.5	29.4	2384	0.1	24.3	2634	0.2	25.4
9367-1393	Road to the National Bowl	825	1.0	35.5	680	1.3	34.9	730	1.2	35.3	1279	0.8	35.8	1322	0.8	36.0
9368-1397	H7 Chaffron Way	23390	0.8	73.2	24877	0.8	71.3	25583	0.7	71.0	26166	0.4	70.3	26616	0.4	70.4
9368-1569	H7 Chaffron Way	25449	0.8	69.2	26909	0.7	67.5	27522	0.7	67.4	29194	0.4	59.1	29591	0.4	59.2
9369-1395	H7 Chaffron Way	22937	0.5	68.4	23389	0.5	66.0	24276	0.4	66.2	22125	0.1	60.4	22158	0.1	60.4
9369-1397	H7 Chaffron Way	21283	0.5	77.2	22537	0.5	75.7	23370	0.4	75.7	21465	0.1	74.9	21432	0.1	75.0
9369-6242	Moorgate	1405	0.2	44.7	753	0.3	54.9	796	0.2	55.0	1381	0.2	44.3	1367	0.2	44.9
9370-9368	Rainbow Drive	1622	0.4	41.5	1601	0.3	40.9	1528	0.4	40.3	2386	0.3	39.6	2343	0.3	39.6
9372-2015	Morland Drive	1219	0.4	35.8	1375	0.4	35.5	1411	0.4	36.9	3154	0.3	31.9	2993	0.3	33.5



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9374-1705	H4 Danstead Way	639	0.0	68.1	729	0.0	67.8	725	0.0	67.6	1464	0.0	67.3	2292	0.0	67.1
9374-9373	Wickstead Avenue	504	0.0	40.0	574	0.0	40.0	571	0.0	40.0	1154	0.0	40.0	1806	0.0	40.0
9375-1574	Unnamed Road off Wolverton Road	3425	0.4	45.7	4364	0.3	45.8	4086	0.4	45.7	7068	0.2	43.2	6931	0.2	43.1
9375-4462	Unnamed Road off Wolverton Road	3305	0.4	48.0	4245	0.3	48.0	3967	0.4	48.0	6861	0.2	48.0	6725	0.2	48.0
9375-4491	Unnamed Road off Wolverton Road	123	0.3	48.0	122	0.3	48.0	122	0.3	48.0	215	0.2	48.0	214	0.2	48.0
9376-1250	Howitt Drive	355	0.6	39.5	456	0.6	39.4	474	0.6	39.4	1330	0.1	38.7	1352	0.1	38.7
9377-1306	V8 Malborough Street	33602	1.0	97.6	37445	0.9	97.3	38962	0.9	97.3	41933	0.6	96.3	44696	0.6	96.0
9377-1321	V8 Malborough Street	31255	1.0	65.7	34098	0.9	64.6	35667	0.8	64.2	36092	0.5	62.1	38465	0.5	61.7
9377-1870	V8 Malborough Street	2067	1.0	23.1	2946	1.5	22.9	2901	1.6	22.9	5141	1.0	22.7	5485	1.1	22.6
9379-1472	Old Groveway	1593	1.1	42.9	2020	0.9	42.5	2025	0.9	42.5	2649	0.5	40.8	2637	0.5	40.7
9380-1472	H9 Groveway	23691	1.8	84.9	24243	1.5	85.1	25285	1.5	84.9	32054	1.1	84.9	32570	1.0	84.8
9380-1474	H9 Groveway	23691	1.8	81.0	24243	1.5	80.5	25285	1.5	80.6	32054	1.1	79.4	32571	1.0	79.3
9381-1432	V7 Saxon Street	10283	3.4	47.8	15004	2.5	47.6	14968	2.5	47.6	19821	1.5	47.2	19832	1.5	47.2
9381-1433	V7 Saxon Street	13719	2.8	41.2	18090	2.3	41.5	18052	2.3	41.5	23228	1.5	37.2	23311	1.5	37.2
9382-9381	Squires Close	3437	1.0	41.3	3086	1.3	43.2	3085	1.3	43.2	3406	1.0	47.3	3478	1.0	47.1



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9383-1439	H8 Standing Way	34664	3.8	98.3	38077	3.2	98.1	38662	3.1	98.1	45876	1.7	97.2	46197	1.7	97.2
9383-1442	H8 Standing Way	36102	3.7	86.5	39465	3.1	86.0	39798	3.1	85.8	48265	1.6	82.2	48681	1.6	81.6
9384-9383	Ladbroke Grove	2402	0.6	40.7	2470	0.8	40.8	2348	0.8	41.2	5196	0.4	38.5	5186	0.4	38.2
9385-1641	V6 Grafton Gate	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
9386-1657	V6 Grafton Gate	876	0.5	46.0	3743	0.1	46.2	3751	0.1	46.2	3351	0.3	41.5	3358	0.3	41.5
9387-1339	Midsummer Boulevard	1332	0.5	38.6	3048	0.3	41.6	3042	0.3	41.7	3870	0.2	44.0	3847	0.2	43.8
9388-1611	Malborough Gate	1782	0.6	44.8	6240	0.2	43.9	6450	0.2	43.6	5961	0.2	43.6	6051	0.2	43.5
9389-2278	Crownhill Crematorium	2223	1.4	41.2	2001	1.6	40.9	1954	1.7	40.8	3315	0.9	39.9	3236	1.0	40.2
9393-1235	V4 Watling Street	19899	1.7	80.6	21125	0.7	78.3	20937	0.9	78.2	35272	0.4	72.6	36187	0.4	72.3
9393-1251	V4 Watling Street	0	0.0	0.0	20955	0.7	75.5	20759	0.9	75.6	35933	0.3	68.8	36926	0.4	68.6
9393-6114	Tilers Road	1388	0.2	47.3	1100	0.0	48.0	1097	0.0	48.0	3754	0.4	41.6	3755	0.4	41.9
9398-1596	Stratford Road	4982	4.7	37.4	6803	3.5	37.4	7103	3.4	37.4	14439	1.8	37.2	14375	1.8	37.2
9398-1671	Stratford Road	7175	3.6	41.9	10017	2.6	41.5	10321	2.5	41.5	17373	1.6	39.6	17342	1.7	39.6
9398-2014	Wolverton Road	2558	1.0	27.8	3954	0.6	27.9	3953	0.6	27.9	4971	0.5	27.6	5084	0.5	27.7
9399-1597	Deans Road	5454	0.6	41.8	9375	0.4	42.0	9381	0.4	42.0	11737	0.3	40.7	11716	0.3	40.6
9402-1713	Willen Lake Car Park	1239	1.0	43.5	1589	0.9	43.6	1623	0.9	43.3	2188	0.8	42.6	1950	0.8	42.9



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9403-1578	Kilwinning Drive	1218	0.1	40.3	1178	0.1	40.0	1311	0.1	40.0	2223	0.1	39.9	2078	0.1	40.0
9404-1716	Hockliffe Brae	1705	0.3	45.2	1934	0.3	44.9	1930	0.3	44.9	2951	0.2	44.7	2938	0.2	44.7
9405-4533	Milton Road	6302	0.0	28.1	5625	0.0	27.8	4830	0.0	28.1	6132	0.0	27.8	6075	0.0	27.9
9405-4534	Watercress Way	3268	1.3	26.8	4724	2.2	26.7	4891	2.2	26.7	9885	1.1	25.7	9405	1.1	25.9
9405-5420	Milton Road	9314	0.4	28.9	10715	1.5	28.7	9785	1.6	28.7	16371	1.0	27.6	15831	1.0	27.6
9405-6256	Shackerstone Close	2926	0.0	44.1	2625	2.1	46.9	2469	2.3	48.0	5322	1.1	46.2	5435	1.1	45.8
9406-1408	V11 Tongwell Street	36274	5.1	92.9	41122	4.0	92.4	42085	4.4	92.2	57343	2.4	89.9	59202	2.5	89.5
9406-5315	V11 Tongwell Street	38290	4.8	99.2	42762	3.8	99.0	44201	4.2	98.9	60055	2.3	97.5	61602	2.4	97.4
9407-5301	H6 Childs Way	29321	1.3	86.1	34448	1.3	84.8	38726	1.0	84.2	40777	0.8	83.1	39460	1.0	82.9
9407-5302	H6 Childs Way	29858	1.2	99.7	34601	1.2	99.4	38879	0.9	99.2	41849	0.7	98.8	40913	0.9	98.7
9408-9406	Noon Layer Drive	1818	1.0	38.1	1485	2.7	38.2	1904	2.2	37.8	2426	1.8	32.8	2150	2.1	32.6
9409-9407	Hensman Gate	3374	0.5	42.9	2867	1.2	42.7	2774	1.2	42.6	5070	0.6	40.6	5687	0.6	40.2
9411-1452	B4034 Buckingham Road	7197	2.6	43.5	8954	2.2	43.5	9012	2.2	43.5	18201	1.0	43.3	18108	1.0	43.3
9412-9411	Tattenhoe Lane	581	2.7	44.1	663	2.5	44.3	660	2.6	44.2	2019	0.9	43.4	2013	0.9	43.4
9415-1411	Bronte Avenue	1582	0.5	44.6	4872	0.2	44.0	4866	0.2	44.0	5544	0.2	43.4	5545	0.2	43.4
9416-1411	Holborn Crescent	1199	0.3	43.1	506	0.8	42.3	498	0.8	42.2	3068	0.1	42.9	3005	0.1	42.9



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9417-7002	Stourhead Gate	4267	0.0	45.8	3698	0.0	46.1	3922	0.0	45.6	6281	0.1	44.1	6446	0.1	44.2
9418-4171	Grampian Gate	2542	1.2	39.7	3122	1.1	40.1	3160	1.0	40.1	4120	0.7	40.0	4271	0.7	39.9
9419-2604	Colindale Street	1944	0.1	44.0	1888	0.1	44.1	1999	0.1	44.3	2534	0.1	44.2	2558	0.1	44.2
9420-1914	Tongwell Lane	4408	2.4	39.7	4277	2.6	39.3	4556	2.4	39.6	4773	1.7	39.5	4786	1.7	40.0
9422-1407	Ulverston Crescent	4093	1.3	44.7	4068	0.0	44.0	4213	0.0	43.9	7250	0.0	40.8	7092	0.0	41.0
9423-1676	School Lane	9705	9.1	46.7	6920	8.9	46.1	7206	8.1	46.1	7653	5.6	44.7	7472	6.0	44.7
9425-2068	Aspley Lane	1989	3.4	51.3	4928	3.9	50.7	4732	5.7	50.8	6380	4.2	50.0	6918	4.3	49.8
9428-2072	Ivy Lane	2398	7.3	66.3	5727	4.9	65.4	5788	6.7	65.3	12368	2.8	60.9	12368	3.0	60.5
9429-4521	M1 Mainline	77174	15.8	95.3	99295	13.2	90.0	99581	13.5	89.5	119045	11.2	72.7	118849	11.4	72.6
9429-4606	M1 Mainline	70214	17.7	96.5	82686	13.9	95.2	84163	14.1	95.1	92031	13.1	93.8	92265	13.6	93.8
9432-4514	Salford Road	5780	2.6	63.1	6319	2.3	62.9	6141	2.3	63.0	10610	2.1	62.2	10798	1.6	62.0
94585-2024	M1 Mainline	0	0.0	0.0	70856	16.8	104.8	71103	17.0	104.7	76350	14.7	95.3	76181	14.8	94.1
94585-4605	M1 Mainline	0	0.0	0.0	82176	15.7	105.7	82107	16.2	105.7	91902	13.2	104.8	91498	13.7	104.8
94586-2024	M1 Slip Road J14	0	0.0	0.0	15293	2.1	63.7	15261	2.5	63.6	15579	1.5	63.2	15441	2.0	63.2
94586-2701	M1 Slip Road J14	0	0.0	0.0	22891	3.6	71.3	22505	4.4	71.3	25458	2.6	64.5	24943	3.5	54.9
94586-94585	M1 Slip Road J14	0	0.0	0.0	7808	6.5	74.0	7590	8.1	73.7	10726	4.3	72.7	10564	6.0	72.5



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9503-4034	M1 Mainline	63483	18.3	105.8	80725	15.3	106.6	81882	15.5	106.5	93241	14.2	104.4	92490	14.6	104.6
9504-2023	M1 Mainline	60089	20.4	105.3	71502	17.6	106.7	71940	18.0	106.6	77480	14.8	105.7	76871	15.2	105.8
9509-2006	M1 Mainline	70926	17.9	104.7	91756	14.7	104.6	91858	15.6	104.1	106963	13.9	100.9	106207	14.7	100.4
9510-9509	M1 Mainline	70926	17.9	105.3	91757	14.7	106.0	91858	15.6	106.0	106963	13.9	98.9	106207	14.7	99.0
9511-9504	M1 Mainline	60089	20.4	105.2	71502	17.6	106.7	71940	18.0	106.6	77480	14.8	105.7	76871	15.2	105.7
9512-9511	M1 Slip Road J15	8147	9.8	29.3	8721	9.5	26.7	8653	9.8	26.7	9468	8.4	25.3	9381	8.5	25.5
9513-9512	Collingtree Junction 15	25073	4.4	39.2	25515	4.4	39.0	25666	4.4	38.9	25859	4.1	38.4	26025	4.1	38.3
9514-9513	Collingtree Junction 15	25660	4.3	42.5	25431	4.3	42.4	25572	4.4	42.4	25384	4.0	42.3	25341	4.0	42.2
9515-9514	Collingtree Junction 15	21568	4.9	43.7	22153	4.8	41.8	22109	4.8	41.8	22348	4.4	40.1	22287	4.4	40.2
9516-4486	Saxon Avenue	5244	1.3	48.0	5535	1.2	48.0	5545	1.2	48.0	5422	1.2	48.0	5407	1.2	48.0
9516-9515	Collingtree Junction 15	5244	1.3	24.6	5535	1.2	24.6	5545	1.2	24.6	5422	1.2	24.6	5407	1.2	24.6
9517-4486	Saxon Avenue	5775	1.1	32.5	6145	1.1	31.8	6148	1.1	31.8	6802	1.1	31.0	6818	1.1	30.9
9517-9510	M1 Slip Road J15	10046	8.3	52.4	11607	7.6	52.2	11381	8.0	52.2	11943	7.7	52.0	11810	7.6	52.0
9517-9512	Collingtree Junction 15	17034	1.8	39.4	17165	1.7	39.4	17365	1.7	39.4	17448	1.7	39.2	17618	1.7	39.2
9517-9516	Collingtree Junction 15	21306	5.1	42.3	22632	4.9	42.2	22603	5.0	42.2	22606	5.0	42.0	22627	4.9	42.0
9518-9510	M1 Mainline	56355	19.7	106.5	74905	15.8	107.2	75335	16.6	107.1	89579	14.7	105.3	88999	15.6	105.3



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9518-9515	M1 Slip Road J15	2952	2.2	37.7	4360	1.9	37.6	4692	1.8	37.6	6188	1.7	37.5	6360	1.9	37.4
9519-9511	M1 Mainline	48276	22.2	106.4	58858	18.6	107.5	59393	18.9	107.4	63752	15.5	106.7	63270	15.9	106.8
9519-9514	M1 Slip Road J15	4092	1.3	54.0	3277	1.5	54.0	3463	1.8	54.0	3036	1.5	54.0	3054	1.7	54.0
9520-9519	M1 Mainline	54206	20.0	106.7	63622	17.4	107.8	64426	17.6	107.7	68175	14.6	107.0	67714	15.0	107.0
9532-9531	A43	30095	3.3	72.5	36140	2.9	71.5	36308	2.9	71.6	43862	2.6	67.5	44167	2.6	67.5
9533-9520	M1 Mainline	54206	20.0	106.4	63622	17.4	107.7	64426	17.6	107.6	68175	14.6	106.8	67714	15.0	106.8
9534-9518	M1 Mainline	60635	18.5	106.8	81226	14.7	107.3	82138	15.5	107.1	98551	13.5	105.1	98220	14.4	105.0
9535-9533	M1 Mainline	46909	22.4	107.5	57897	18.7	108.3	58699	18.9	108.2	64013	15.2	107.6	63733	15.6	107.6
9536-9531	A43	5407	3.0	79.5	4415	3.0	73.1	4415	3.2	73.1	3442	3.9	65.6	3312	4.1	65.5
9536-9533	M1 Slip Road J15A	5407	3.0	46.1	4415	3.0	46.2	4415	3.2	46.2	3442	3.9	46.4	3312	4.1	46.4
9537-9536	Northampton Motorway Services	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
9538-9532	A43	5554	2.8	48.3	7296	2.4	45.1	7196	2.8	45.3	8455	2.3	44.0	8442	2.6	44.2
9538-9534	M1 Slip Road J15A	5554	2.8	41.5	7296	2.4	41.5	7196	2.8	41.5	8455	2.3	37.7	8442	2.6	37.7
9539-9538	M1 Slip Road J15A	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
99001-99000	Brinklow Roundabout	0	0.0	0.0	12813	3.8	18.1	12905	3.6	18.1	14197	1.5	18.4	14265	1.5	18.4
99002-99001	Brinklow Roundabout	0	0.0	0.0	14196	4.5	19.0	14244	5.1	19.0	17418	2.7	19.3	17292	3.1	19.3



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99003-99000	Brinklow Roundabout	0	0.0	0.0	11595	5.0	18.8	11706	5.5	18.8	15834	2.6	18.7	15904	2.9	18.6
99003-99002	Brinklow Roundabout	0	0.0	0.0	15112	4.8	18.4	15252	4.9	18.3	19194	2.8	18.5	19230	2.9	18.5
99004-1443	H8 Standing Way	0	0.0	0.0	36477	3.6	97.9	36751	3.7	97.9	43155	1.9	97.3	43487	1.9	97.3
99004-99000	H8 Standing Way	0	0.0	0.0	18491	3.2	51.3	18626	3.3	51.3	21068	1.5	50.8	21307	1.6	50.7
99004-99003	H8 Standing Way	0	0.0	0.0	17986	4.0	99.3	18125	4.1	99.3	22087	2.3	98.9	22180	2.3	98.9
99005-1444	V11 Tongwell Street	0	0.0	0.0	37912	4.1	98.3	37693	4.8	98.3	45388	2.7	97.3	45497	3.0	97.3
99005-99000	V11 Tongwell Street	0	0.0	0.0	17103	4.0	99.4	17262	4.7	99.4	22625	2.4	98.6	22721	2.6	98.5
99005-99001	V11 Tongwell Street	0	0.0	0.0	20809	4.3	51.1	20432	4.8	51.2	22763	3.0	50.4	22776	3.4	50.4
99006-1707	H8 Standing Way	0	0.0	0.0	39698	4.2	96.5	39223	4.2	96.6	39532	2.6	96.5	39644	2.7	96.4
99006-99001	H8 Standing Way	0	0.0	0.0	19239	3.8	99.1	18911	3.7	99.1	18208	2.0	99.1	18390	2.1	99.0
99006-99002	H8 Standing Way	0	0.0	0.0	20459	4.5	50.9	20312	4.7	50.9	21324	3.0	50.3	21254	3.1	50.3
99007-1479	V11 Tongwell Street	0	0.0	0.0	32162	4.0	97.4	32131	4.5	97.4	35913	2.4	96.9	35837	2.6	96.9
99007-99002	V11 Tongwell Street	0	0.0	0.0	18144	4.0	99.4	18010	4.5	99.4	17608	2.8	99.1	17412	3.1	99.1
99007-99003	V11 Tongwell Street	0	0.0	0.0	14017	4.0	51.6	14121	4.4	51.5	18305	2.0	51.1	18425	2.2	51.2
99009-99008	Monkston Roundabout	0	0.0	0.0	7809	0.5	18.6	7671	0.6	18.6	10377	0.3	18.3	9917	0.4	18.3
99010-99009	Monkston Roundabout	0	0.0	0.0	18535	4.6	23.0	18086	5.2	23.0	23376	3.0	23.0	23240	3.2	23.0



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99011-99008	Monkston Roundabout	0	0.0	0.0	21507	3.1	22.6	21365	3.7	22.5	28987	2.0	21.6	29170	2.1	21.4
99011-99010	Monkston Roundabout	0	0.0	0.0	10664	0.6	18.6	10534	0.7	18.6	14983	0.8	18.6	15269	0.5	18.6
99012-1406	H7 Chaffron Way	0	0.0	0.0	16082	0.6	83.6	16194	0.8	83.5	23390	0.7	81.4	23922	0.5	81.2
99012-99008	H7 Chaffron Way	0	0.0	0.0	7196	0.6	45.0	7105	0.7	45.0	11280	0.4	44.2	11427	0.5	44.2
99012-99011	H7 Chaffron Way	0	0.0	0.0	8886	0.6	85.1	9089	0.8	85.0	12110	0.9	83.4	12495	0.6	83.1
99013-5420	V11 Tongwell Street	0	0.0	0.0	45054	3.7	96.9	44599	4.3	97.1	61051	2.4	95.4	62196	2.5	95.2
99013-99008	V11 Tongwell Street	0	0.0	0.0	21994	3.5	99.1	21908	4.1	99.1	31017	2.1	97.4	31801	2.2	97.3
99013-99009	V11 Tongwell Street	0	0.0	0.0	23060	4.0	53.0	22691	4.5	53.0	30034	2.6	52.1	30395	2.8	51.9
99014-1407	H7 Chaffron Way	0	0.0	0.0	24591	0.1	78.7	24333	0.1	78.7	30002	0.1	75.3	29790	0.1	75.5
99014-99009	H7 Chaffron Way	0	0.0	0.0	12063	0.1	83.8	12009	0.1	83.8	16136	0.0	80.5	15880	0.0	80.6
99014-99010	H7 Chaffron Way	0	0.0	0.0	12527	0.1	45.1	12324	0.1	45.0	13866	0.1	44.2	13910	0.1	44.2
99015-1444	V11 Tongwell Street	0	0.0	0.0	40295	4.1	95.8	39913	4.7	95.8	47991	2.7	94.4	47741	3.1	94.3
99015-99010	V11 Tongwell Street	0	0.0	0.0	20033	4.5	99.2	19482	5.1	99.2	21251	3.2	98.7	20777	3.7	98.6
99015-99011	V11 Tongwell Street	0	0.0	0.0	20262	3.7	53.7	20431	4.3	53.7	26740	2.3	52.6	26964	2.5	52.6
99016-1230	V4 Watling Street	0	0.0	0.0	26281	1.1	69.2	26307	1.3	69.1	43554	0.7	62.2	43991	0.7	61.9
99016-1235	V4 Watling Street	0	0.0	0.0	21050	1.0	64.8	21109	1.2	64.8	30605	0.6	60.7	31278	0.6	60.8



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99019-6468	Oakhill Lane Farm	0	0.0	0.0	3842	1.6	39.5	3827	1.6	39.5	11062	0.9	39.5	11153	0.9	39.5
99021-9393	Unnamed Road	0	0.0	0.0	2137	0.0	30.5	2157	0.0	30.5	1508	0.0	30.2	1533	0.0	30.1
99022-1279	The High Street	0	0.0	0.0	2792	0.0	24.7	2757	0.0	24.6	2941	0.0	25.1	2909	0.0	25.4
99027-99016	Apollo Avenue	0	0.0	0.0	4123	1.5	33.1	4097	1.5	33.0	12322	0.8	31.0	12598	0.8	30.8
99027-99017	Apollo Avenue	0	0.0	0.0	4123	1.5	38.5	4097	1.5	38.5	12322	0.8	39.0	12598	0.8	39.0
99028-1605	Oakhill Lane	0	0.0	0.0	5845	1.1	38.7	5987	1.1	38.7	20305	0.7	38.2	19397	0.7	38.2
99028-99024	Masham Way	0	0.0	0.0	5845	1.1	33.8	5987	1.1	33.6	20305	0.7	34.0	19397	0.7	34.1
99029-4495	Barrosa Way	0	0.0	0.0	1489	0.2	32.3	1424	0.3	32.5	7553	0.4	31.7	7797	0.4	32.6
99029-4496	Barrosa Way	0	0.0	0.0	1489	0.2	39.8	1424	0.3	39.8	7553	0.4	39.8	7797	0.4	39.8
99030-4496	Barrosa Way	0	0.0	0.0	893	0.2	38.7	843	0.4	38.7	7717	0.4	39.1	7730	0.4	39.2
99030-99024	Barrosa Way	0	0.0	0.0	893	0.2	36.9	843	0.4	36.5	7717	0.4	33.5	7730	0.4	32.5
99031-99024	Longhorn Drive	0	0.0	0.0	5199	1.2	36.8	5260	1.1	37.0	18466	0.6	34.6	18440	0.6	34.9
99032-99025	Emperor Drive	0	0.0	0.0	3909	1.6	39.6	4070	1.5	39.6	16868	0.6	39.6	16767	0.6	39.6
99033-1562	Calverton Lane	0	0.0	0.0	5514	1.2	31.0	5711	1.6	31.0	9883	1.1	29.3	10488	1.2	29.3
99033-1605	Oakhill Lane	0	0.0	0.0	6242	1.0	38.8	6396	1.0	38.8	20624	0.7	38.3	19762	0.7	38.3
99033-6468	Calverton Lane	0	0.0	0.0	8012	1.6	37.1	8048	1.8	37.0	20472	0.9	33.1	19533	1.0	33.3



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
99034-99031	Longhorn Drive	0	0.0	0.0	5199	1.2	39.5	5260	1.1	39.5	18466	0.6	39.7	18440	0.6	39.7
99502-1449	A421	0	0.0	0.0	41628	6.5	98.7	41647	6.5	98.7	44608	4.9	98.5	44786	4.9	98.5
99502-4833	A421	0	0.0	0.0	41628	6.5	87.8	41647	6.5	88.0	44608	4.9	85.4	44786	4.9	84.8
99506-1630	V12 Fen Street	0	0.0	0.0	6067	0.1	38.2	5227	0.1	38.4	10992	0.1	37.3	10702	0.1	37.4
99506-5108	Newport Road	0	0.0	0.0	1471	8.2	37.1	950	12.7	37.7	3674	3.1	36.9	3665	3.1	36.9
99507-5132	Broughton Grounds Lane	0	0.0	0.0	7143	0.1	27.0	7042	0.1	27.1	9424	0.1	26.6	9107	0.1	26.6
99507-99506	V12 Fen Street	0	0.0	0.0	4716	0.1	39.3	4396	0.2	39.3	7434	0.1	39.1	7152	0.1	39.2
99508-1407	Countess Way	0	0.0	0.0	13486	0.9	33.9	12742	1.0	33.9	11966	1.0	33.2	11915	1.0	33.1
99508-4535	Countess Way	0	0.0	0.0	13362	0.0	38.6	12619	0.0	38.6	11845	0.0	38.5	11793	0.0	38.6
99509-4535	Countess Way	0	0.0	0.0	12529	0.0	38.5	12292	0.0	38.5	12917	0.0	38.2	12905	0.0	38.2
99517-5106	Newport Road	0	0.0	0.0	5991	2.0	37.0	4975	2.4	37.5	6962	1.6	36.7	7314	1.5	36.6
99517-5208	Newport Road	0	0.0	0.0	14229	0.0	37.0	12710	0.0	37.3	18243	0.0	35.4	18373	0.0	35.4
99518-5108	Broughton Grounds Lane	0	0.0	0.0	2323	0.0	27.6	2403	0.0	27.5	3071	0.0	26.6	3060	0.0	26.8
99518-99507	V12 Fen Street	0	0.0	0.0	10683	0.0	34.5	10265	0.0	34.5	14485	0.0	34.0	13887	0.0	34.0
99518-99517	V12 Fen Street	0	0.0	0.0	8367	0.0	39.6	7862	0.0	39.6	11416	0.0	39.5	11193	0.0	39.5
99519-1630	V12 Fen Street	0	0.0	0.0	3928	0.1	39.6	3450	0.1	39.5	5605	0.1	39.6	5482	0.1	39.6



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
99519-99514	V12 Fen Street	0	0.0	0.0	3928	0.1	32.0	3450	0.1	32.0	5605	0.1	32.0	5481	0.1	32.0
99530-1482	Newport Road	10832	1.2	61.8	11811	1.1	61.7	11864	1.1	61.7	19340	0.8	59.0	18775	0.8	59.2
99531-4413	Newport Road	10832	1.2	61.1	11811	1.1	60.8	11864	1.1	60.7	19340	0.8	58.5	18775	0.8	58.7
99531-99530	Newport Road	10832	1.2	63.0	11811	1.1	62.8	11864	1.1	62.8	19340	0.8	60.5	18775	0.8	60.6
99544-1528	Station Road	11796	1.4	52.7	18929	1.0	51.3	19094	1.0	51.1	24249	0.6	48.7	24187	0.6	48.7
99544-4569	Station Road	11796	1.4	62.9	18929	1.0	60.9	19094	1.0	60.8	24249	0.6	58.3	24187	0.6	58.3
99545-4553	Caldecotte Lake Drive	0	0.0	0.0	3650	1.2	37.3	3758	1.2	37.4	7238	0.6	37.4	7028	0.6	37.3
99546-1928	A509	30736	3.6	87.7	31255	2.7	87.4	32807	1.8	80.6	33143	1.6	84.2	33858	1.7	78.1
99546-4476	Unnamed Road	1101	1.1	36.3	397	0.0	40.6	0	0.0	0.0	732	0.0	39.4	0	0.0	0.0
99546-91232	A509	15549	3.8	99.3	16573	2.9	99.1	18709	2.7	94.0	19588	1.9	98.8	24810	2.0	93.3
99546-91233	A509	14221	3.5	97.2	14307	2.6	96.9	18556	2.6	95.9	12958	1.3	96.7	17574	1.9	96.1
99550-1629	A509 London Road	17703	5.7	74.6	16123	4.4	74.6	0	0.0	0.0	14883	3.9	75.1	0	0.0	0.0
99550-5515	A509 London Road	17703	5.7	72.4	16123	4.4	70.1	0	0.0	0.0	14883	3.9	64.8	0	0.0	0.0
99571-1302	H4 Willen Road	25102	2.7	75.3	27668	2.0	74.1	11432	2.9	66.6	32482	1.2	71.5	10910	2.2	60.0
99575-1327	V11 Tongwell Street	21769	2.2	72.7	26758	2.0	70.8	31633	2.3	67.7	38257	1.3	63.2	40512	1.8	62.3
99575-1328	V11 Tongwell Street	24226	2.2	82.2	29888	2.0	80.8	35706	2.3	79.2	43322	1.3	73.1	45615	1.9	71.1



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
99578-1302	V11 Tongwell Street	20169	2.4	74.8	25872	2.1	72.9	5937	3.1	65.3	39545	1.3	66.3	7270	3.0	67.1
99578-1327	V11 Tongwell Street	17836	2.4	73.5	22983	2.2	72.5	30390	2.4	66.0	35620	1.3	68.2	41581	1.9	55.2
99580-1566	M1 Slip Road J14	0	0.0	0.0	14877	3.4	75.6	15388	4.1	75.5	15630	2.6	75.4	15713	4.6	75.2
99580-2009	M1 Slip Road J14	0	0.0	0.0	13507	1.4	64.6	13506	2.3	64.6	13716	1.6	64.1	13806	3.0	64.1
99581-2009	M1 Mainline	0	0.0	0.0	78748	14.9	105.3	79161	15.2	105.2	90470	14.2	103.1	89754	14.4	103.2
99581-9503	M1 Mainline	0	0.0	0.0	80725	15.3	106.7	81882	15.5	106.6	93241	14.2	104.6	92490	14.6	104.7
99581-99580	M1 Slip Road J14	0	0.0	0.0	1370	22.5	75.9	1882	16.8	75.8	1914	10.5	75.3	1907	15.9	75.3
99587-91100	University Way	9769	1.4	35.7	10589	1.4	35.9	11704	1.2	35.6	10388	1.6	35.9	10932	1.4	35.7
99601-6176	Michigan Drive	5906	3.6	48.0	6694	3.3	48.0	5306	3.4	48.0	5282	3.6	48.0	7444	2.2	48.0
99606-91092	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
99607-1914	Marsh End Road	25300	2.4	79.7	27408	2.2	78.9	24740	2.3	79.8	30725	1.5	75.9	32951	1.3	75.4
99608-99607	Marsh End Road	12315	1.8	82.9	13177	1.6	82.2	11520	1.6	83.0	14393	1.0	80.7	13662	0.9	80.8
99609-99607	Marsh End Road	12985	2.9	47.8	14230	2.7	46.8	13220	2.8	48.1	16332	2.0	44.1	19289	1.5	44.9
99609-99608	A422 to Monks Way Roundabout	14392	2.1	26.6	16302	1.9	26.4	13642	2.3	26.5	18376	1.5	26.1	16406	1.9	26.3
99610-5715	H3 Monks Way	33108	2.0	93.9	36428	1.9	92.3	39289	2.3	91.3	48355	1.4	90.8	50155	1.8	92.0
99610-99608	H3 Monks Way	17445	1.7	58.9	18935	1.7	56.9	20751	1.8	56.6	23965	1.3	53.5	25448	1.4	51.8



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
99611-5515	A422	35814	2.7	89.1	41692	2.1	87.6	34111	2.6	89.3	49361	1.6	83.0	41500	2.1	85.9
99611-99609	A422	17058	2.5	99.5	20727	2.1	99.1	16554	2.5	99.5	24520	1.6	98.4	21258	1.7	98.9
99612-99608	A422 to Monks Way Roundabout	8733	2.4	23.9	10010	1.9	23.9	4502	3.1	23.8	9339	1.4	23.8	5197	2.0	23.6
99612-99610	H3 Monks Way	15663	2.4	99.6	17493	2.1	99.5	18537	2.8	99.3	24389	1.5	98.5	24707	2.2	98.3
99613-99609	A422 to Monks Way Roundabout	9574	2.3	25.0	8948	2.3	25.0	9480	2.7	25.0	8923	1.9	24.9	12310	1.8	24.5
99613-99611	A422	18756	2.9	57.7	20965	2.1	56.9	17555	2.8	55.3	24841	1.7	54.4	20241	2.6	51.5
99613-99612	A422 to Monks Way Roundabout	14275	2.4	26.5	15538	2.2	26.4	17236	2.6	26.3	18394	1.9	26.1	20919	1.6	25.9
99614-99571	H4 Willen Road	25102	2.7	83.1	27668	2.0	82.3	0	0.0	0.0	32482	1.2	79.6	0	0.0	0.0
99614-99612	H4 Willen Road	10473	2.4	48.5	12633	1.8	47.2	4555	4.2	48.8	16739	0.9	44.1	7635	4.0	46.4
99614-99613	H4 Willen Road	14629	3.0	82.4	15035	2.2	81.8	9777	3.1	85.1	15744	1.5	80.3	10253	3.9	83.9
99701-4481	Unnamed Road	0	0.0	0.0	0	0.0	0.0	599	0.0	34.3	0	0.0	0.0	974	0.0	31.2
99701-99571	Unnamed Road	0	0.0	0.0	0	0.0	0.0	15136	5.8	56.0	0	0.0	0.0	16109	3.9	52.2
99701-99614	Unnamed Road	0	0.0	0.0	0	0.0	0.0	14332	3.4	61.9	0	0.0	0.0	17888	3.9	66.0
99702-4480	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	1044	0.0	36.8
99703-1629	Unnamed Road	0	0.0	0.0	0	0.0	0.0	19815	8.8	58.7	0	0.0	0.0	25691	8.5	55.1



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
99703-99606	Unnamed Road	0	0.0	0.0	0	0.0	0.0	2889	13.9	41.3	0	0.0	0.0	4966	15.7	40.8
99704-4476	Unnamed Road	0	0.0	0.0	0	0.0	0.0	2479	0.0	44.4	0	0.0	0.0	5674	0.3	44.1
99704-99546	Unnamed Road	0	0.0	0.0	0	0.0	0.0	12227	3.1	58.0	0	0.0	0.0	20781	2.1	53.5
99705-99703	Unnamed Road	0	0.0	0.0	0	0.0	0.0	9823	4.9	58.5	0	0.0	0.0	14085	3.6	56.7
99705-99704	Unnamed Road	0	0.0	0.0	0	0.0	0.0	10194	3.7	63.8	0	0.0	0.0	15563	2.7	61.7
99707-99578	Unnamed Road	0	0.0	0.0	0	0.0	0.0	21902	2.3	60.5	0	0.0	0.0	30701	1.6	55.3
99707-99700	Unnamed Road	0	0.0	0.0	0	0.0	0.0	22976	2.9	59.1	0	0.0	0.0	26600	2.3	54.6
99708-4479	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	366	0.0	35.5
99708-5515	A509 London Road	0	0.0	0.0	0	0.0	0.0	17150	3.5	54.2	0	0.0	0.0	19684	3.0	50.3
99709-91092	Unnamed Road	0	0.0	0.0	0	0.0	0.0	7715	2.2	61.0	0	0.0	0.0	11882	2.6	60.1
99709-99706	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	48	0.0	65.7
99710-4476	Unnamed Road	0	0.0	0.0	0	0.0	0.0	4344	0.0	46.8	0	0.0	0.0	8199	0.2	45.8
99711-99705	Unnamed Road	0	0.0	0.0	0	0.0	0.0	4643	1.9	44.2	0	0.0	0.0	7569	1.7	43.3
99712-99711	Unnamed Road	0	0.0	0.0	0	0.0	0.0	14	0.0	42.4	0	0.0	0.0	1037	0.0	41.1
99713-99704	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	959	0.0	36.2
99715-99702	Unnamed Road	0	0.0	0.0	0	0.0	0.0	154	0.0	39.8	0	0.0	0.0	3182	0.0	37.9



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
99717-99702	A509 London Road	0	0.0	0.0	0	0.0	0.0	8197	8.8	38.9	0	0.0	0.0	10789	6.8	38.3
99717-99703	Unnamed Road	0	0.0	0.0	0	0.0	0.0	9194	11.2	39.3	0	0.0	0.0	12222	10.8	38.2
99717-99716	Unnamed Road	0	0.0	0.0	0	0.0	0.0	3566	12.2	41.1	0	0.0	0.0	7203	12.4	40.3
99718-99701	Unnamed Road	0	0.0	0.0	0	0.0	0.0	2987	17.9	37.2	0	0.0	0.0	2824	16.6	36.0
99719-99571	Unnamed Road	0	0.0	0.0	0	0.0	0.0	10229	5.6	37.3	0	0.0	0.0	10727	4.5	34.9
99720-99707	Unnamed Road	0	0.0	0.0	0	0.0	0.0	11074	5.2	55.3	0	0.0	0.0	12496	3.9	54.8
99720-99719	Unnamed Road	0	0.0	0.0	0	0.0	0.0	11074	5.2	43.4	0	0.0	0.0	12335	4.0	42.4
99721-99719	Unnamed Road	0	0.0	0.0	0	0.0	0.0	1874	0.0	41.1	0	0.0	0.0	1741	0.0	41.9
99722-99720	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	406	0.0	39.7
99723-99710	Unnamed Road	0	0.0	0.0	0	0.0	0.0	4634	1.9	43.4	0	0.0	0.0	8879	1.5	42.4
99723-99711	Unnamed Road	0	0.0	0.0	0	0.0	0.0	4634	1.9	46.1	0	0.0	0.0	7874	1.6	45.3
99724-99723	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	2971	0.0	41.0
99725-99705	Unnamed Road	0	0.0	0.0	0	0.0	0.0	7985	2.0	58.9	0	0.0	0.0	12661	2.2	57.4
99725-99709	Unnamed Road	0	0.0	0.0	0	0.0	0.0	7715	2.2	67.2	0	0.0	0.0	11834	2.6	65.7
99726-99725	Unnamed Road	0	0.0	0.0	0	0.0	0.0	677	4.7	39.7	0	0.0	0.0	2297	4.9	39.3
99727-4478	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	191	0.0	44.9



Traffic Model Link ID (High Node-Low Node)	Road Name	2019 Base Year			2031 Without Proposed Development			2031 With Proposed Development			2048 Without Proposed Development			2048 With Proposed Development		
		AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)	AADT	% HDV	Speed (kph)
99727-99707	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	823	0.0	39.9
99728-99727	Unnamed Road	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	632	0.0	41.8
99730-99700	A509 London Road	0	0.0	0.0	0	0.0	0.0	17150	3.5	45.9	0	0.0	0.0	19777	3.0	45.0
99730-99708	A509 London Road	0	0.0	0.0	0	0.0	0.0	17149	3.5	62.3	0	0.0	0.0	19777	3.0	57.8
99731-99700	A509 London Road	0	0.0	0.0	0	0.0	0.0	8241	8.9	40.8	0	0.0	0.0	12052	6.3	39.9
99731-99702	A509 London Road	0	0.0	0.0	0	0.0	0.0	8230	8.7	43.5	0	0.0	0.0	12040	6.2	42.0
99732-99700	Unnamed Road	0	0.0	0.0	0	0.0	0.0	8376	3.2	37.8	0	0.0	0.0	15089	2.0	35.7
99732-99710	Unnamed Road	0	0.0	0.0	0	0.0	0.0	8376	3.2	44.6	0	0.0	0.0	15089	2.0	43.0

Appendix G3

Model Inputs and Verification

Table G-2 – Model Inputs

Input	Notes
Traffic data and emissions rates	<p>The traffic data were derived from data provided by WSP Transport Planners.</p> <p>NO_x, PM₁₀ and PM_{2.5} emissions data for 2019 and 2030 were obtained from Defra's Emissions Factors Toolkit (EFT), version 10.1.</p> <p>EFT settings: area = 'England (not London)'; traffic format = 'Basic Split', road type = 'Urban (not London)', 'Rural (not London)', or 'Motorway (not London)'.</p>
Road geometry	<p>All model links aligned to the carriageway centreline, set to true road width (kerb to kerb/edge of travelled lanes) except in street canyons where façade to façade width, road heights set to zero.</p>
Meteorological data	<p>Bedford meteorological station 2019</p> <p>Parameters include hourly sequential format: Julian date, hour, wind speed (m/s), wind direction (degrees from north), cloud cover (oktas), surface temperature (Celcius).</p> <p>Meteorological site roughness length = 0.2m</p> <p>Meteorological site minimum Monin-Obukhov length = 30m</p> <p>Dispersion site latitude = 52.1°</p> <p>Dispersion site roughness length = 1m</p> <p>Dispersion site minimum Monin-Obukhov length = 30m</p> <div data-bbox="405 1070 1222 1973" style="text-align: center;"> <p>0 3 6 10 16 (knots)</p> <p>0 1.5 3.1 5.1 8.2 (m/s)</p> <p>Wind speed</p> </div>

Input	Notes
Background concentrations	From Defra 1 x 1 km mapped datasets for 2019 and 2030. (2018-based background maps for NO _x , NO ₂ , PM ₁₀ and PM _{2.5})
Receptors	Discrete human receptors, transects for ecological receptors - see Appendix G.4 .
Model outputs	Annual mean NO _x , PM ₁₀ and PM _{2.5} concentrations at receptor points.
Post-processing	Verification (discussed below) with adjustment of road source contributions of annual mean NO _x , PM ₁₀ and PM _{2.5} (to address systematic model error).
	NO _x to NO ₂ conversion using Defra's calculator version 8.1 (NO _x _to_NO ₂ _Calculator_v8.1)
	Compliance with the 24-hour mean air quality strategy objective for PM ₁₀ has been determined using the following empirical equation given in LLAQM.TG(16) guidance: <ul style="list-style-type: none"> ■ <i>Number of 24-hour mean exceedances of 50µg/m³ = -18.5 + 0.00145 × (annual mean)² + (206 ÷ annual mean)</i>

MODEL VERIFICATION

1.1.1. The process of model verification involves comparison of modelled and measured pollutant concentrations at monitoring sites, and investigation of the differences which can arise due to inaccuracies and uncertainties in model input data and algorithms, and monitoring data. The process also enables adjustment of model outputs to compensate for systematic under or over estimation of concentrations.

NO₂

1.1.2. Most NO₂ is produced in the atmosphere by the reaction of nitric oxide (NO) with ozone. It is therefore most appropriate to verify the model in terms of the primary pollutant emissions of NO_x, in line with the LLAQM.TG(16) technical guidance.

1.1.3. The model has been run for 2019 to predict the road source contribution to the annual mean NO_x concentration at 19 roadside diffusion tube sites and 2 roadside continuous monitoring sites. As the diffusion tube provides a measurement of NO₂ concentration only, it was necessary to derive an estimate of monitored road-NO_x concentration using Defra's NO_x to NO₂ conversion calculator (version 8.1).

1.1.4. The data examined in the verification process are presented in Table G-3. Two verification groups were assigned to account for two different location types:

- All other (Group 1); and
- Olney (Group 2).

Table G-3 – Data examined in model verification before adjustment

Monitoring Site	2019 Background NO ₂ (µg/m ³)	2019 Monitored NO ₂ (µg/m ³)	2019 Monitored road-NO _x (µg/m ³)	2019 Modelled road-NO _x (µg/m ³)	Ratio Monitored/ Modelled road-NO _x	Group
MK2	16.2	38.4	45.0	52.8	0.9	1
MK3	19.2	38.0	38.0	41.1	0.9	1
MK5	17.8	27.6	19.1	11.8	1.6	1
MK6	12.1	26.5	27.7	9.8	2.8	1
MK7	11.2	14.4	5.9	4.3	1.4	1
Roadbox 1	15.4	27.1	22.6	18.7	1.2	1
H1 H2	13.4	23.1	18.4	11.1	1.7	1
S1 S2 S3	15.4	26.8	22.0	18.2	1.2	1
OO1 OO2	12.0	15.9	7.1	1.3	5.6	1
TT1 TT2	13.4	26.5	25.2	11.4	2.2	1
BB1 BB2	12.0	18.4	11.9	3.6	3.3	1
DD1 DD2	11.0	23.3	23.3	3.8	6.2	1
C1 C2 C3	9.8	36.4	53.3	11.3	4.7	2
D1 D2 D3	9.8	30.9	41.2	7.3	5.6	2
E1 E2 E3	9.8	21.3	21.5	9.0	2.4	2
F1 F2 F3	9.8	25.1	29.1	5.4	5.4	2
FF1 FF2 FF3	9.8	34.6	49.3	7.4	6.7	2
HH1 HH2 HH3	9.8	29.1	37.4	7.5	5.0	2
KK1 KK2 KK3	9.8	35.8	52.0	10.7	4.9	2
LL1 LL2 LL3	9.8	30.6	40.6	9.5	4.3	2
Roadbox 2	9.8	23.9	26.7	13.5	2.0	2
Group 1 verification factor						1.04
Group 2 verification factor						4.05

1.1.5. Comparison of unadjusted modelled total annual mean NO₂ concentrations with monitored concentrations (**Figure G-1** and **Figure G-2**) clearly shows that the unadjusted modelled concentrations are underestimated and should be adjusted to compensate for systematic bias.

Figure G-1 - Comparison of Group 1 measured total NO₂ with modelled total NO₂ (Before adjustment of Road-NO_x)

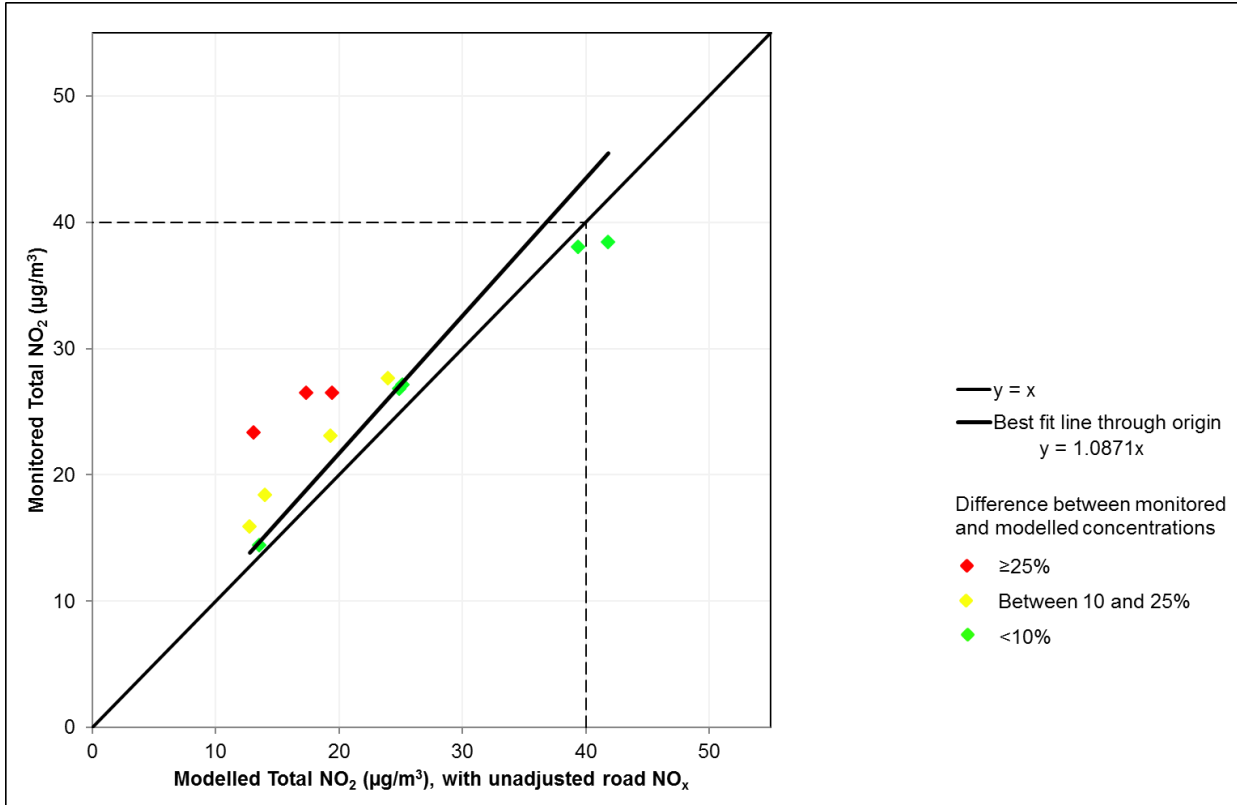
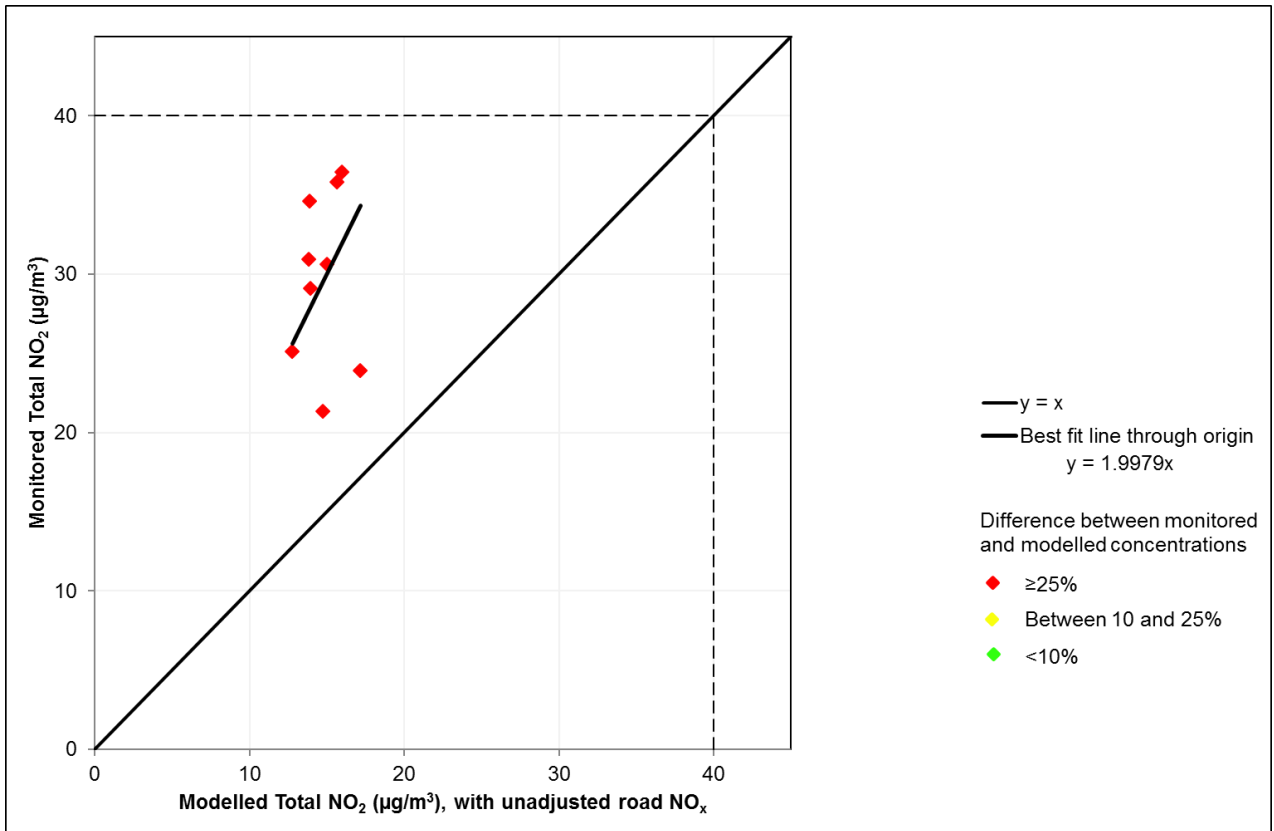


Figure G-2 - Comparison of Group 2 measured total NO₂ with modelled total NO₂ (Before adjustment of Road-NO_x)



1.1.6. The verification (adjustment) factor for each group represents the slope of the best fit line between the monitored road contribution and the model derived road contribution, which has been derived by simple linear regression with the line forced through zero (illustrated in **Figure G-3** and **Figure G-4**). This factor was then applied to the modelled road-NO_x concentration to provide adjusted modelled road-NO_x concentrations (illustrated in **Figure G-5**)



- 1.1.7. Figure G-5 and **Figure G-6**). The total NO₂ concentrations were then determined by inputting the adjusted modelled road-NO_x concentrations and the background NO₂ concentrations into the NO_x to NO₂ calculator.
- 1.1.8. Comparisons of the modelled and monitored annual mean NO₂ concentrations for Group 1 and Group 2 locations are given in **Table G-4**. In the case of Group 1 locations, post-adjustment nine out of twelve modelled concentrations are within ±25% of monitored concentrations, with four being within ±10%. For Group 2 locations, six modelled concentrations are within ±25% of monitored concentrations, with 2 being within ±10%; however, three are greater than ±25% of monitored concentrations.

Figure G-3 - Comparison of Group 1 measured Road-NO_x with unadjusted modelled Road-NO_x

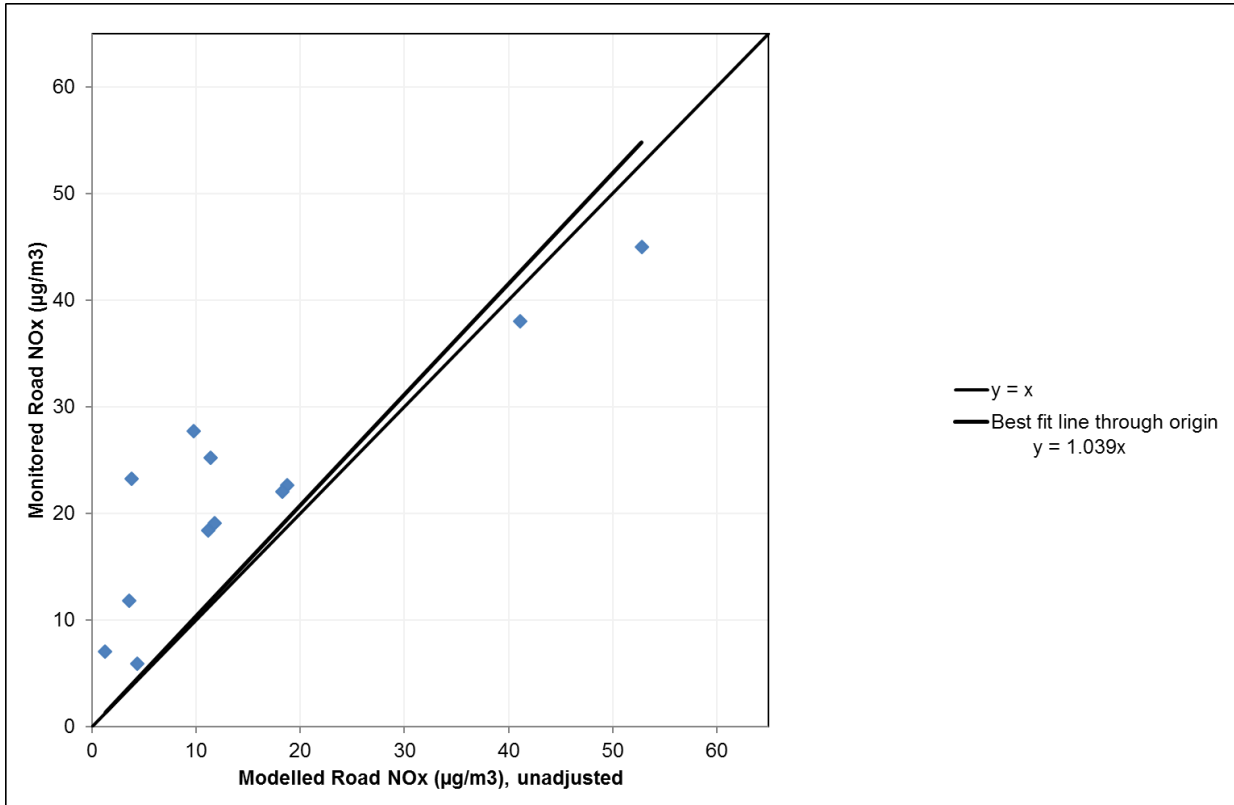


Figure G-4 - Comparison of Group 2 measured Road-NO_x with unadjusted modelled Road-NO_x

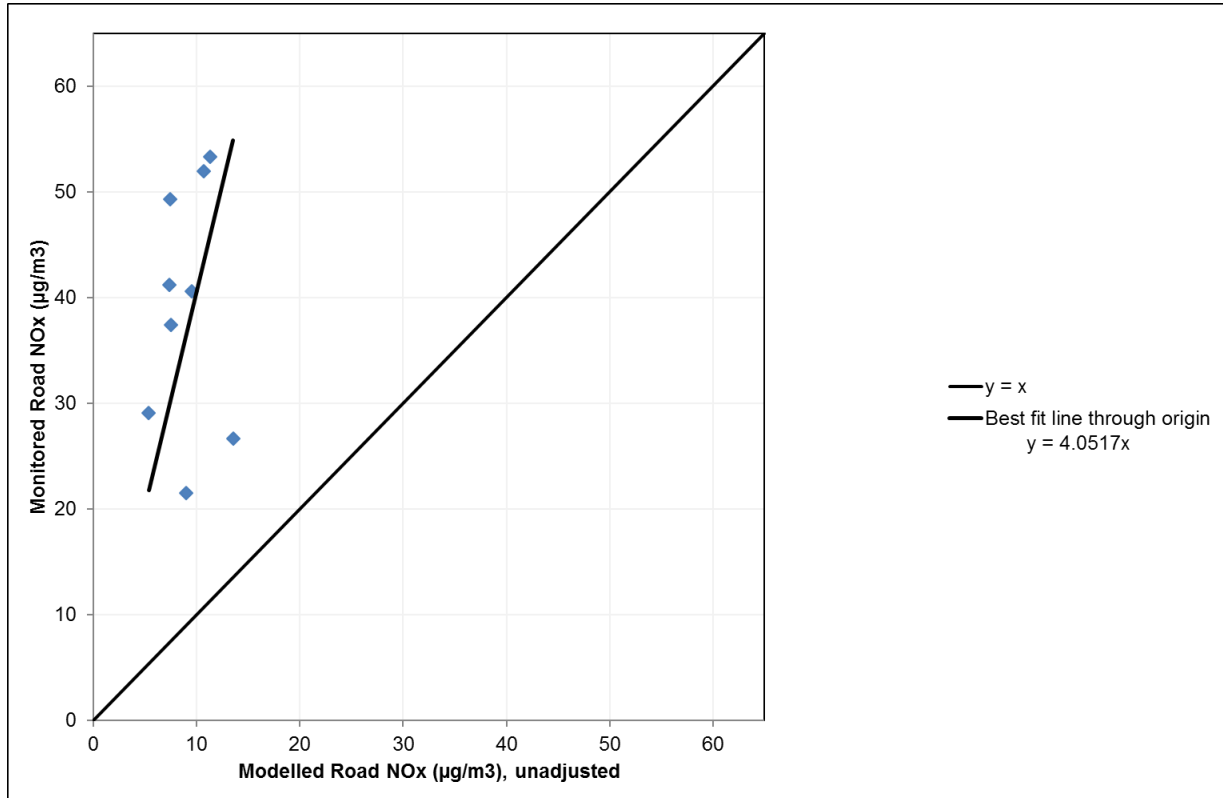


Figure G-5 - Comparison of Group 1 measured total NO₂ with modelled total NO₂ (After adjustment of Road-NO_x)

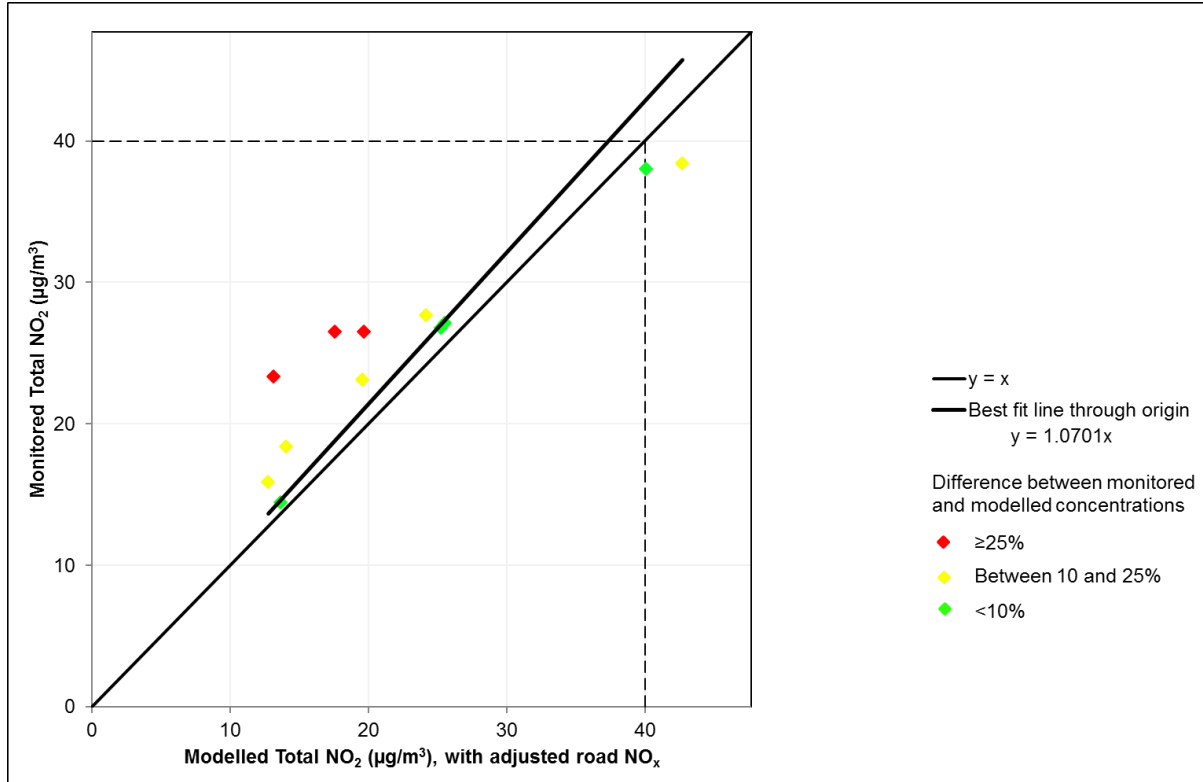


Figure G-5



1.1.9. Figure G-5 shows that concentrations near the annual mean AQS for NO₂ (40µg/m³) are slightly over-estimated by the model post-adjustment.

Figure G-6 - Comparison of Group 2 measured total NO₂ with modelled total NO₂ (After adjustment of Road-NO_x)

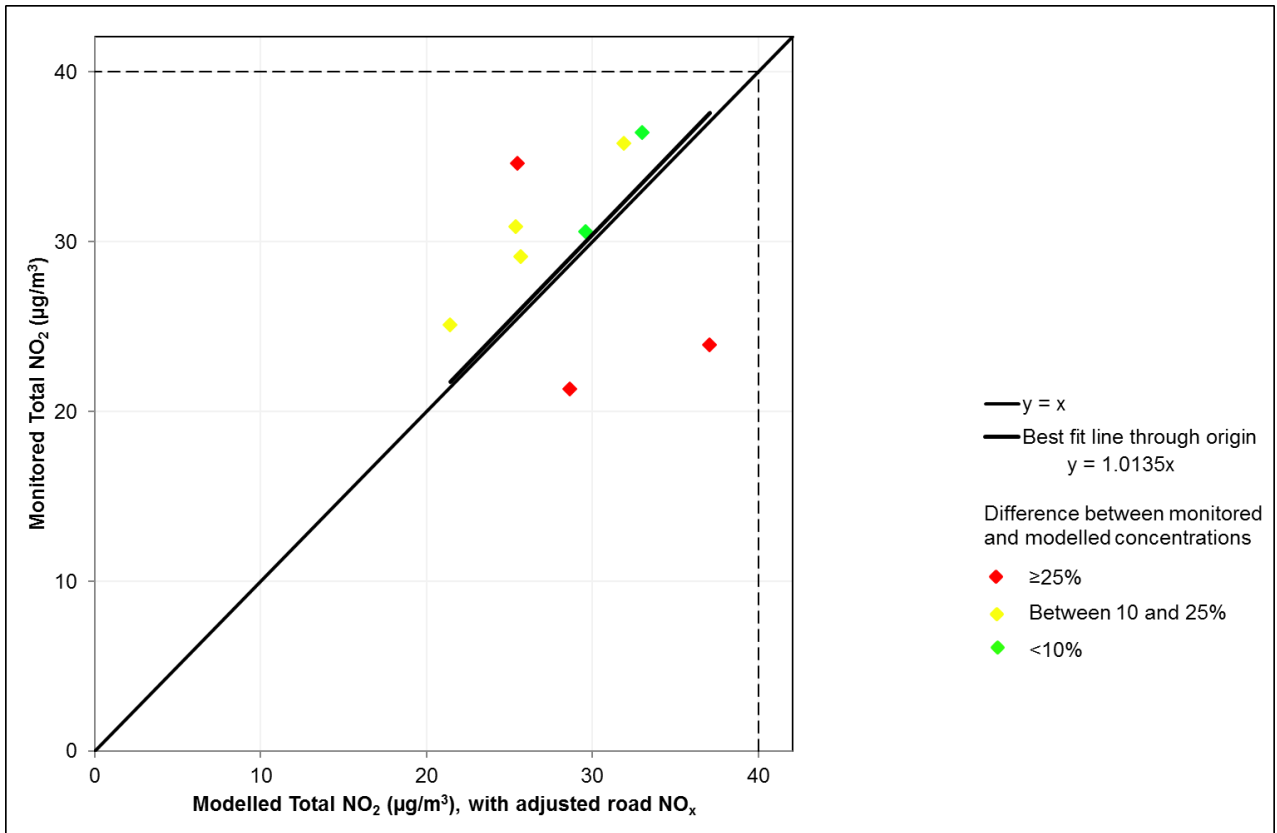


Table G-4 – Differences between modelled and monitored concentrations after adjustment

	Group 1 – All other	Group 2 - Olney
Within +10%	1	0
Within -10%	3	2
Within $\pm 10\%$	4	2
Within +10 to 25%	1	0
Within -10 to 25%	4	4
Within ± 10 to $\pm 25\%$	5	4
Over +25%	0	2
Under -25%	3	1
Greater $\pm 25\%$	3	3
Within $\pm 25\%$	9	6

PM₁₀ AND PM_{2.5}

- 1.1.10. There are no local PM₁₀ and PM_{2.5} monitoring data against which the model could be verified. Consequently, the verification factor determined above for adjusting the road-NO_x contribution has been applied to the predicted road-PM₁₀ and road-PM_{2.5} contributions, consistent with guidance set out in LAQM.TG(16).

MODEL UNCERTAINTY

- 1.1.11. An evaluation of model performance has been undertaken to establish confidence in model results. LAQM.TG(16) identifies a number of statistical procedures that are appropriate to evaluate model performance and assess the uncertainty. These include:
- Root mean square error (RMSE);
 - Fractional bias (FB); and
 - Correlation coefficient (CC).
- 1.1.12. These parameters estimate how the model results agree or diverge from the observations. These calculations can be carried out prior to, and after adjustment, or based on different options for adjustment, and can provide useful information on model improvement. An explanation of each statistic is provided in **Table G-5**.

Table G-5 – Model uncertainty

Statistical Parameter	Comments	Ideal Value
RMSE	<p>RMSE is used to define the average error or uncertainty of the model. The units of RMSE are the same as the quantities compared.</p> <p>If the RMSE values are higher than 25% of the objective being assessed, it is recommended that the model inputs and verification should be revisited in order to make improvements.</p> <p>For example, if the model predictions are for the annual mean NO₂ AQS objective of 40µg/m³, if an RMSE of 10µg/m³ or above is determined for a model it is advised to revisit the model parameters and model verification.</p> <p>Ideally an RMSE within 10% of the AQS objective would be derived, which equates to 4µg/m³ for the annual mean NO₂ AQS objective.</p>	0.01
FB	<p>It is used to identify if the model shows a systematic tendency to over or under predict.</p> <p>FB values vary between +2 and -2 and has an ideal value of zero. Negative values suggest a model over-prediction and positive values suggest a model under-prediction.</p>	0.00
CC	<p>It is used to measure the linear relationship between predicted and observed data. A value of zero means no relationship and a value of 1 means an absolute relationship.</p> <p>This statistic can be particularly useful when comparing a large number of model and observed data points.</p>	1.00

- 1.1.13. To assess the uncertainty of a model, the RMSE is the simplest parameter to calculate providing an estimate of the average error of the model in the same units as the modelled predictions. It is also often easier to interpret the RMSE than the other statistical parameters and therefore it has been calculated in this assessment to understand the model uncertainty.
- 1.1.14. Uncertainty statistics following model adjustment are given in **Table G-6**. The RMSE values are within 12.8% for Group 1 and 16.5% for Group 2 of the AQS and on this basis the model performs reasonably well. The small positive value of the fraction bias of both groups indicates a slight tendency to underestimate concentrations. Correlation coefficients for Group 1 and Group 2 are close to one indicating a close relationship between the adjusted modelled and monitored data.

Table G-6 – Uncertainty statistics after model adjustment

Verification Group	RMSE ($\mu\text{g}/\text{m}^3$)	Fractional Bias	Correlation Coefficient
Group 1	5.1	0.131	1.0701
Group 2	6.6	0.036	1.0135

- 1.1.15. It is notable that the Olney area is outside the model simulation network of the transport model provided (i.e. outside the area within the Milton Keynes Multi-Model Model which has been locally validated and calibrated and is considered the most reliable). Furthermore, there is potential for street canyon effects on the A509 High Street South, Olney that have not been account for in the ADMS-Roads models. This may account for Group 2's RMSE of $6.6\mu\text{g}/\text{m}^3$.

Appendix G4

Receptors

Table G-7 – Human health receptors modelled

Receptor	Location	Grid reference		Height above ground level (m)
		X	Y	
R1	18 High Street South, Olney, MK464AA	488905	251201	1.5
R2	Holiday Inn, London Road, Newport Pagnell, Milton Keynes, MK16 0JA	489155	241698	1.5
R3	19 London Road, Newport Pagnell, MK16 0FG	488769	242814	1.5
R4	1 High Street, Olney, MK46 4AA	488920	251117	1.5
R5	12 Bridge Street, Olney, MK464AB	488902	251039	1.5
R6	Newport Road, Moulsoe,	490943	241962	1.5
R7	5 Cranfield Road, Moulsoe, Newport Pagnell, MK16 0HB	491497	241911	1.5
R8	Central Milton Keynes Medical Centre, 68 Bradwell Common Blvd, Bradwell Common, MK13 8RN	484078	238862	1.5
R9	The Clinic Milton Keynes, 18 Rockingham Drive, Linford Wood, MK14 6LY	485292	240501	1.5
R10	Milton Keynes University Hospital, Standing Way, Eaglestone, MK6 5LD	486758	237008	1.5
R11	Milton Keynes College, Chaffron Way, Leadenhall, MK6 5LP	485774	237457	1.5
R12	The Grove Surgery, Farthing Close, Farthing Grove, Netherfield, MK6 4NG	486875	236899	1.5
R13	Moorland Primary School, Maslin Drive, Beanhill, MK6 4ND	486887	236365	1.5
R14	Giles Brook Primary School, Holborn Crescent, Tattenhoe, MK4 3GB	482995	233494	1.5
R15	26 Tiverton Crescent, Kingsmead, Milton Keynes, MK4 4BY	482169	234547	1.5
R16	Oxley Park Academy, Redgrave Dr, Oxley Park, Milton Keynes MK4	482255	234905	1.5
R17	Long Meadow School, Garthwaite Crescent, Shenley Brook End, MK5 7XX	482636	235347	1.5
R18	Shenley Brook End School, Walbank Grove, Shenley Brook End, MK5 7ZT	482994	234936	1.5

Receptor	Location	Grid reference		Height above ground level (m)
		X	Y	
R19	3 Faraday Drive, Shenley Lodge, Milton Keynes, MK5 7DE	483694	235871	1.5
R20	Shenley Lodge Pre-School, 5 Faraday Drive, Shenley Lodge, MK5 7DE	484391	236462	1.5
R21	41 Quantock Crescent, Emerson Valley, MK4 2AQ	484874	234529	1.5
R22	524 Whaddon Way, Bletchley, MK3 7LD	486046	235451	1.5
R23	Watling Street, Little Brickhill, Milton Keynes, MK17 9LZ	491214	232332	1.5
R24	Walton High Walnut Tree Campus, Fyfield Barrow, Walnut Tree, MK7 7WH	490290	236392	1.5
R25	105 Pomander Crescent, Walnut Tree, MK7 7NL	489937	237147	1.5
R26	20 Groombridge, Kents Hill, MK7 6HA	489429	236999	1.5
R27	Charles Warren Academy, Old Groveway, Simpson, MK6 3AZ	487950	236268	1.5
R28	St Bernadette's Catholic Primary School, Tewkesbury Lane, Monkston Park, MK10 9PH	488663	237969	1.5
R29	1 Kilwinning Drive, Monkston, Milton Keynes, MK10 9HJ	488728	238126	1.5
R30	59 Balmerino Close, Monkston, Milton Keynes, MK10 9DE	489612	238712	1.5
R31	Milton Keynes Village Practice, Griffith Gate, Milton Keynes, MK10 9BQ	489409	239206	1.5
R32	1 Miller's Close, Kislingbury, Northampton, NN7 4BA	469569	258880	1.5
R33	73 High Street, Collingtree, Northampton, NN4 0NE	474977	255369	1.5
R34	Spring Risings, School Lane, Quinton, Northampton	477707	254158	1.5
R35	Willow Lane, Hartwell, Northampton, NN7 2FJ	479140	250860	1.5
R36	5 Pennycress Way, Newport Pagnell, MK16 8TX	485790	243669	1.5
R37	Amen Cottage, Little Linford Lane, Little Linford, MK19 7EA	484303	244289	1.5
R38	Mill Lane, Milton Keynes, MK17 8BP	494159	238207	1.5

Receptor	Location	Grid reference		Height above ground level (m)
		X	Y	
R39	4 Ivernia Avenue, Broughton, Newport Pagnell, MK10 7HR	489534	240545	1.5
R40	Ivy Lane, Great Brickhill, MK17 9AH	490273	229890	1.5
R41	10 Pleasant Mews, Old Stratford, Milton Keynes, MK19 6FG	477524	241366	1.5
R42	9 Wheelwrights Way, Old Stratford, Milton Keynes, MK19 6NY	478004	241448	1.5
R43	22 Essenden Court, Stony Stratford, Milton Keynes, MK11 1NW	479720	240369	1.5
R44	6 Wainers Croft, Greenleys, Milton Keynes, MK12 6AL	480742	239835	1.5
R45	30 Dunvedin Place, Hodge Lea, Milton Keynes, MK12 6JJ	481712	239614	1.5
R46	42 Lenthall Close, Bradwell, Milton Keynes, MK13 9DF	483324	240095	1.5
R47	6 Burtree Close, Stacey Bushes, Milton Keynes, MK12 6LW	481815	240148	1.5
R48	35 Chevalier Grove, Crownhill, Milton Keynes, MK8 0EJ	481745	237213	1.5
R49	Holmwood School, Kensington Drive, Great Holm, MK8 9AB	482507	238243	1.5
R50	32 Craddocks Close, Bradwell, Milton Keynes, MK13 9DX	483718	239338	1.5
R51	Stantonbury International School, Stantonbury, MK14 6BN	484225	240798	1.5
R52	The Webber Independent School, Soskin Drive, Stantonbury Fields, Stantonbury, MK14 6DP	484810	240960	1.5
R53	76 Townsend Grove, New Bradwell, Milton Keynes, MK13 0DS	483813	241725	1.5
R54	28 Gibbwin, Great Linford, Milton Keynes, MK14 5DP	485053	241662	1.5
R55	89 Tower Drive, Neath Hill, Milton Keynes, MK14 6JX	485865	241281	1.5

Receptor	Location	Grid reference		Height above ground level (m)
		X	Y	
R56	16 Windrush Close, Downhead Park, Milton Keynes, MK15 9BN	486200	240754	1.5
R57	105 Mullen Avenue, Downs Barn, Milton Keynes, MK14 7LH	485744	239813	1.5
R58	70 N Twelfth Street, Milton Keynes, MK9 3BT	485571	239355	1.5
R59	8 N Fourteenth Street, Milton Keynes, MK9 3NP	485692	239536	1.5
R60	604 Avebury Boulevard, Milton Keynes, MK9 3DD	485532	238676	1.5
R61	Milton Keynes College, 200 Silbury Blvd, MK9, 1LT	484499	238486	1.5
R62	Lovat Fields Village, Japonica Lane, Milton Keynes	487239	240366	1.5
R63	26 Carteret Close, Willen, Milton Keynes, MK15 9LD	488140	241386	1.5
R64	13 Kimbolton Court, Blakelands, Giffard Park, Milton Keynes, MK14 5PS	486409	241676	1.5
R65	46 Dulwich Close, Newport Pagnell, MK16 0PB	487160	242538	1.5
R66	Horseshoe Cottage, 95 Pattison Lane, Woolstone, Milton Keynes, MK15 0BN	487463	238381	1.5
R67	128B High Street, Cranfield, Bedford, MK43 0BS	495494	242063	1.5
R68	7 Thrift View, Bedford Road, Cranfield, Bedford, MK43 0HA	496472	242847	1.5
R69	Hill House, Beancroft Road, Marston Moretaine, Bedford	498211	242893	1.5
R70	62 Johnson Close, Marston Moretaine, Bedford, MK43 0JT	499343	241765	1.5
R71	Home Farm House, Chicheley, Newport Pagnell, MK16 9JE	490217	245923	1.5
R72	Elizabeth Woodville School, Stratford Road, Deanshanger, MK19 6HN	477120	239457	1.5
R73	Thornton Lodge, Stratford Road, Wicken, MK19 6DE	474758	236805	1.5
R74	29 Greenway Walk, Buckingham, MK18 7BG	470667	234189	1.5
R75	Aerospace Technology Institute, Martell House, University Way, Wharley End, Bedford, MK43 0TR	493885	241652	1.5

Receptor	Location	Grid reference		Height above ground level (m)
		X	Y	
R76	Childbase Partnership, Kingston House, Northampton Road, Newport Pagnell, MK16 8NJ	487812	244510	1.5
R77	75-77 High Street, Newport Pagnell, MK16 8AB	487545	243897	4.5
R78	12 Caldecote Street, Newport Pagnell, MK16 0BX	487276	243590	1.5
R79	26 Gladstone Close, Newport Pagnell, MK16 0EU	487590	242978	1.5
R80	42 Tattenhoe Lane, Bletchley, Milton Keynes, MK3 7AA	485093	233426	1.5
R81	39 The Crescent, Bletchley, Milton Keynes, MK2 2QB	487265	234220	1.5
R82	30 Watling Street, Fenny Stratford, Bletchley, Milton Keynes, MK2 2BL	488274	234116	4.5
R83	13 Tredington Grove, Caldecotte, Milton Keynes, MK7 8LR	489617	235589	1.5
R84	1 Bow Brickhill, Station Road, Milton Keynes	489650	234727	1.5
R85	B526, Hackleton, Hartwell, Northampton	481675	251293	1.5
R86	Town end Crescent, Stoke Goldington, Newport Pagnell, MK16 8NU	483933	248362	1.5
R87	The Square, Aspley Guise, Milton Keynes, MK17 8DF	494261	235925	1.5
R88	Shepherds Cottage, Aspley Lane, Woburn, Milton Keynes, MK17 9HY	494058	234339	1.5
R89	30 Bedford Street, Woburn	494782	233422	1.5
R90	82 Newport Road, Moulsoe, Newport Pagnell, MK16 0HP	490300	241580	1.5
FR1	Proposed Residential Property	489422	241418	1.5
FR2	Proposed Residential Property	488333	241978	1.5
FR3	Proposed School	489105	242258	1.5
FR4	Proposed Residential Property	489329	242570	1.5
FR5	Proposed School	489986	241802	1.5
FR6	Proposed Residential Property	490169	241220	1.5



Receptor	Location	Grid reference		Height above ground level (m)
		X	Y	
FR7	Proposed Employment Use	489173	240984	1.5
FR8	Proposed Employment Use	489864	241446	1.5

Table G-8 – Ecological receptors modelled

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
1-1	Lower Wood	Ancient Woodland	492647.7	241750.8	5.9	1.8
1-2	Lower Wood	Ancient Woodland	492638.7	241746.4	15.9	1.8
1-3	Lower Wood	Ancient Woodland	492629.8	241741.9	25.9	1.7
1-4	Lower Wood	Ancient Woodland	492620.8	241737.4	35.9	1.7
1-5	Lower Wood	Ancient Woodland	492611.9	241733.0	45.9	1.7
1-6	Lower Wood	Ancient Woodland	492602.9	241728.5	55.9	1.7
1-7	Lower Wood	Ancient Woodland	492594.0	241724.0	65.9	1.7
1-8	Lower Wood	Ancient Woodland	492585.0	241719.6	75.9	1.7
1-9	Lower Wood	Ancient Woodland	492576.1	241715.1	85.9	1.7
1-10	Lower Wood	Ancient Woodland	492567.1	241710.6	95.9	1.7
1-11	Lower Wood	Ancient Woodland	492558.2	241706.2	105.9	1.7
1-12	Lower Wood	Ancient Woodland	492549.2	241701.7	115.9	1.7
1-13	Lower Wood	Ancient Woodland	492540.3	241697.2	125.9	1.6
1-14	Lower Wood	Ancient Woodland	492531.3	241692.8	135.9	1.6
1-15	Lower Wood	Ancient Woodland	492522.4	241688.3	145.9	1.6
1-16	Lower Wood	Ancient Woodland	492513.4	241683.9	155.9	1.6
1-17	Lower Wood	Ancient Woodland	492504.5	241679.4	165.9	1.6
1-18	Lower Wood	Ancient Woodland	492495.5	241674.9	175.9	1.6
1-19	Lower Wood	Ancient Woodland	492486.6	241670.5	185.9	1.6
1-20	Lower Wood	Ancient Woodland	492477.6	241666.0	195.9	1.6
1-21	Lower Wood	Ancient Woodland	492470.9	241662.6	203.4	1.6
2-1	Moulsoe Wood	Ancient Woodland	492404.3	242045.3	84.8	1.7
2-2	Moulsoe Wood	Ancient Woodland	492405.9	242055.2	94.8	1.7

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
2-3	Moulsoe Wood	Ancient Woodland	492407.4	242065.0	104.8	1.7
2-4	Moulsoe Wood	Ancient Woodland	492409.0	242074.9	114.8	1.7
2-5	Moulsoe Wood	Ancient Woodland	492410.5	242084.8	124.8	1.7
2-6	Moulsoe Wood	Ancient Woodland	492412.0	242094.7	134.8	1.7
2-7	Moulsoe Wood	Ancient Woodland	492413.6	242104.6	144.8	1.7
2-8	Moulsoe Wood	Ancient Woodland	492415.1	242114.4	154.7	1.8
2-9	Moulsoe Wood	Ancient Woodland	492416.6	242124.3	164.7	1.8
2-10	Moulsoe Wood	Ancient Woodland	492418.2	242134.2	174.7	1.8
2-11	Moulsoe Wood	Ancient Woodland	492419.7	242144.1	184.7	1.8
2-12	Moulsoe Wood	Ancient Woodland	492421.2	242154.0	194.7	1.8
2-13	Moulsoe Wood	Ancient Woodland	492422.5	242162.2	203.1	1.8
3-1	Charle Wood	Ancient Woodland	493865.5	234037.2	3739.1	7.5
3-2	Charle Wood	Ancient Woodland	493858.8	234029.9	3748.7	7.5
3-3	Charle Wood	Ancient Woodland	493852.0	234022.5	3758.3	7.5
3-4	Charle Wood	Ancient Woodland	493845.2	234015.1	3768.0	7.5
3-5	Charle Wood	Ancient Woodland	493838.5	234007.8	3777.6	7.5
3-6	Charle Wood	Ancient Woodland	493831.7	234000.4	3787.3	7.5
3-7	Charle Wood	Ancient Woodland	493825.0	233993.0	3796.9	7.5
3-8	Charle Wood	Ancient Woodland	493818.2	233985.7	3806.6	7.5
3-9	Charle Wood	Ancient Woodland	493811.4	233978.3	3816.2	7.5



Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
3-10	Charle Wood	Ancient Woodland	493804.7	233970.9	3825.9	7.5
3-11	Charle Wood	Ancient Woodland	493797.9	233963.6	3835.5	7.5
3-12	Charle Wood	Ancient Woodland	493791.2	233956.2	3845.2	7.5
3-13	Charle Wood	Ancient Woodland	493784.4	233948.8	3854.8	7.6
3-14	Charle Wood	Ancient Woodland	493777.6	233941.4	3864.5	7.6
3-15	Charle Wood	Ancient Woodland	493770.9	233934.1	3874.1	7.6
3-16	Charle Wood	Ancient Woodland	493764.1	233926.7	3883.8	7.6
3-17	Charle Wood	Ancient Woodland	493757.4	233919.3	3893.5	7.6
3-18	Charle Wood	Ancient Woodland	493750.6	233912.0	3903.1	7.6
3-19	Charle Wood	Ancient Woodland	493743.8	233904.6	3912.8	7.6
3-20	Charle Wood	Ancient Woodland	493736.5	233896.6	3923.3	7.6
4-1	Downs Barn Wood	Ancient Woodland	485870.0	240396.4	143.7	2.3
4-2	Downs Barn Wood	Ancient Woodland	485875.7	240388.1	148.3	2.3
4-3	Downs Barn Wood	Ancient Woodland	485881.4	240379.9	153.3	2.3
4-4	Downs Barn Wood	Ancient Woodland	485887.1	240371.7	158.8	2.3
4-5	Downs Barn Wood	Ancient Woodland	485892.8	240363.5	164.7	2.3
4-6	Downs Barn Wood	Ancient Woodland	485898.6	240355.3	171.0	2.3
4-7	Downs Barn Wood	Ancient Woodland	485904.5	240346.8	178.0	2.3
5-1	Linford Wood North	Ancient Woodland	484748.4	240816.8	70.8	3.1
5-2	Linford Wood North	Ancient Woodland	484753.0	240808.0	80.7	3.1
5-3	Linford Wood North	Ancient Woodland	484757.7	240799.1	90.7	3.1

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
5-4	Linford Wood North	Ancient Woodland	484762.3	240790.3	100.7	3.1
5-5	Linford Wood North	Ancient Woodland	484767.0	240781.4	110.6	3.1
5-6	Linford Wood North	Ancient Woodland	484771.6	240772.6	120.6	3.1
5-7	Linford Wood North	Ancient Woodland	484776.2	240763.7	130.6	3.1
5-8	Linford Wood North	Ancient Woodland	484780.9	240754.8	140.6	3.1
5-9	Linford Wood North	Ancient Woodland	484785.5	240746.0	150.5	3.1
5-10	Linford Wood North	Ancient Woodland	484790.1	240737.1	160.5	3.1
5-11	Linford Wood North	Ancient Woodland	484794.8	240728.3	170.5	3.1
5-12	Linford Wood North	Ancient Woodland	484799.4	240719.4	180.5	3.1
5-13	Linford Wood North	Ancient Woodland	484804.1	240710.5	190.4	3.1
5-14	Linford Wood North	Ancient Woodland	484808.7	240701.7	200.4	3.1
5-15	Linford Wood North	Ancient Woodland	484813.8	240692.0	211.3	3.1
6-1	Mouthslade Spinney	Ancient Woodland	489752.4	244871.3	161.8	1.5
6-2	Mouthslade Spinney	Ancient Woodland	489762.4	244870.8	171.7	1.5
6-3	Mouthslade Spinney	Ancient Woodland	489772.4	244870.3	181.7	1.5
6-4	Mouthslade Spinney	Ancient Woodland	489782.3	244869.8	191.7	1.5
6-5	Mouthslade Spinney	Ancient Woodland	489792.3	244869.3	201.7	1.5

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
7-1	Bedlam Spinney E	Ancient Woodland	489792.4	246098.3	4.9	2.7
7-2	Bedlam Spinney E	Ancient Woodland	489802.3	246096.9	14.9	2.7
7-3	Bedlam Spinney E	Ancient Woodland	489812.2	246095.5	24.9	2.7
7-4	Bedlam Spinney E	Ancient Woodland	489822.1	246094.1	34.9	2.7
7-5	Bedlam Spinney E	Ancient Woodland	489832.0	246092.6	44.9	2.7
7-6	Bedlam Spinney E	Ancient Woodland	489841.9	246091.2	54.9	2.7
7-7	Bedlam Spinney E	Ancient Woodland	489843.9	246090.9	57.0	2.7
8-1	Bedlam Spinney W	Ancient Woodland	489783.5	246099.5	4.0	2.7
8-2	Bedlam Spinney W	Ancient Woodland	489773.7	246101.4	14.0	2.7
8-3	Bedlam Spinney W	Ancient Woodland	489763.8	246103.2	24.0	2.7
8-4	Bedlam Spinney W	Ancient Woodland	489756.2	246104.6	31.8	2.7
9-1	Brandon's Wood	Ancient Woodland	491868.5	246372.2	127.7	3.8
9-2	Brandon's Wood	Ancient Woodland	491866.7	246362.3	137.7	3.8
9-3	Brandon's Wood	Ancient Woodland	491864.8	246352.5	147.7	3.8
9-4	Brandon's Wood	Ancient Woodland	491862.9	246342.7	157.6	3.8
9-5	Brandon's Wood	Ancient Woodland	491861.0	246332.9	167.6	3.8
9-6	Brandon's Wood	Ancient Woodland	491859.1	246323.1	177.6	3.8

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
9-7	Brandon's Wood	Ancient Woodland	491857.3	246313.2	187.6	3.8
9-8	Brandon's Wood	Ancient Woodland	491855.4	246303.4	197.6	3.8
9-9	Brandon's Wood	Ancient Woodland	491854.3	246297.8	203.4	3.8
10-1	Bunsty Wood N	Ancient Woodland	483078.5	246502.0	4389.7	6.6
10-2	Bunsty Wood N	Ancient Woodland	483084.1	246510.3	4395.4	6.6
10-3	Bunsty Wood N	Ancient Woodland	483089.7	246518.5	4401.0	6.6
10-4	Bunsty Wood N	Ancient Woodland	483095.4	246526.8	4406.7	6.6
10-5	Bunsty Wood N	Ancient Woodland	483101.0	246535.1	4412.3	6.6
10-6	Bunsty Wood N	Ancient Woodland	483106.6	246543.3	4418.0	6.6
10-7	Bunsty Wood N	Ancient Woodland	483112.2	246551.6	4423.6	6.6
10-8	Bunsty Wood N	Ancient Woodland	483117.9	246559.9	4429.3	6.6
10-9	Bunsty Wood N	Ancient Woodland	483123.5	246568.1	4435.0	6.6
10-10	Bunsty Wood N	Ancient Woodland	483129.1	246576.4	4440.6	6.6
10-11	Bunsty Wood N	Ancient Woodland	483134.8	246584.7	4446.3	6.6
10-12	Bunsty Wood N	Ancient Woodland	483140.4	246592.9	4451.9	6.6
10-13	Bunsty Wood N	Ancient Woodland	483146.0	246601.2	4457.6	6.6
10-14	Bunsty Wood N	Ancient Woodland	483151.6	246609.5	4463.3	6.6

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
10-15	Bunsty Wood N	Ancient Woodland	483157.3	246617.7	4468.9	6.6
10-16	Bunsty Wood N	Ancient Woodland	483162.9	246626.0	4474.6	6.6
10-17	Bunsty Wood N	Ancient Woodland	483168.5	246634.2	4480.2	6.6
10-18	Bunsty Wood N	Ancient Woodland	483174.2	246642.5	4485.9	6.6
10-19	Bunsty Wood N	Ancient Woodland	483179.8	246650.8	4491.5	6.6
10-20	Bunsty Wood N	Ancient Woodland	483185.4	246659.0	4497.2	6.6
10-21	Bunsty Wood N	Ancient Woodland	483187.8	246662.5	4499.6	6.6
11-1	Bunsty Wood S	Ancient Woodland	483057.6	246475.7	4372.8	6.6
11-2	Bunsty Wood S	Ancient Woodland	483051.7	246467.7	4367.5	6.6
11-3	Bunsty Wood S	Ancient Woodland	483045.7	246459.6	4362.2	6.6
11-4	Bunsty Wood S	Ancient Woodland	483039.8	246451.6	4356.9	6.6
11-5	Bunsty Wood S	Ancient Woodland	483033.9	246443.5	4351.7	6.6
11-6	Bunsty Wood S	Ancient Woodland	483027.9	246435.5	4346.4	6.6
11-7	Bunsty Wood S	Ancient Woodland	483022.0	246427.4	4341.2	6.5
11-8	Bunsty Wood S	Ancient Woodland	483016.1	246419.4	4336.0	6.5
11-9	Bunsty Wood S	Ancient Woodland	483010.1	246411.3	4330.8	6.5
12-1	Salcey Forest E	Ancient Woodland	479356.6	251600.7	9377.7	12.7

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
12-2	Salcey Forest E	Ancient Woodland	479365.0	251606.1	9370.0	12.7
12-3	Salcey Forest E	Ancient Woodland	479373.5	251611.4	9362.3	12.7
12-4	Salcey Forest E	Ancient Woodland	479381.9	251616.7	9354.6	12.7
12-5	Salcey Forest E	Ancient Woodland	479390.4	251622.1	9346.9	12.7
12-6	Salcey Forest E	Ancient Woodland	479398.9	251627.4	9339.2	12.7
12-7	Salcey Forest E	Ancient Woodland	479407.3	251632.7	9331.4	12.7
12-8	Salcey Forest E	Ancient Woodland	479415.8	251638.0	9323.7	12.7
12-9	Salcey Forest E	Ancient Woodland	479424.2	251643.4	9316.1	12.7
12-10	Salcey Forest E	Ancient Woodland	479432.7	251648.7	9308.4	12.7
12-11	Salcey Forest E	Ancient Woodland	479441.2	251654.0	9300.7	12.7
12-12	Salcey Forest E	Ancient Woodland	479449.6	251659.4	9293.0	12.7
12-13	Salcey Forest E	Ancient Woodland	479458.1	251664.7	9285.3	12.7
12-14	Salcey Forest E	Ancient Woodland	479466.6	251670.0	9277.7	12.7
12-15	Salcey Forest E	Ancient Woodland	479475.0	251675.4	9270.0	12.6
12-16	Salcey Forest E	Ancient Woodland	479483.5	251680.7	9262.3	12.6
12-17	Salcey Forest E	Ancient Woodland	479491.9	251686.0	9254.7	12.6
12-18	Salcey Forest E	Ancient Woodland	479500.4	251691.4	9247.0	12.6



Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
12-19	Salcey Forest E	Ancient Woodland	479508.9	251696.7	9239.4	12.6
12-20	Salcey Forest E	Ancient Woodland	479517.6	251702.2	9231.5	12.6
13-1	Salcey Forest W	Ancient Woodland	479338.5	251589.4	9394.3	12.7
13-2	Salcey Forest W	Ancient Woodland	479330.0	251584.1	9402.0	12.7
13-3	Salcey Forest W	Ancient Woodland	479321.6	251578.8	9409.7	12.7
13-4	Salcey Forest W	Ancient Woodland	479313.1	251573.4	9417.5	12.7
13-5	Salcey Forest W	Ancient Woodland	479304.7	251568.1	9425.2	12.7
13-6	Salcey Forest W	Ancient Woodland	479296.2	251562.7	9433.0	12.7
13-7	Salcey Forest W	Ancient Woodland	479287.8	251557.4	9440.7	12.7
13-8	Salcey Forest W	Ancient Woodland	479279.3	251552.1	9448.5	12.7
13-9	Salcey Forest W	Ancient Woodland	479270.9	251546.7	9456.2	12.7
13-10	Salcey Forest W	Ancient Woodland	479262.4	251541.4	9464.0	12.7
13-11	Salcey Forest W	Ancient Woodland	479253.9	251536.0	9471.8	12.7
13-12	Salcey Forest W	Ancient Woodland	479245.5	251530.7	9479.5	12.7
13-13	Salcey Forest W	Ancient Woodland	479237.0	251525.3	9487.3	12.7
13-14	Salcey Forest W	Ancient Woodland	479228.6	251520.0	9495.1	12.7
13-15	Salcey Forest W	Ancient Woodland	479220.1	251514.7	9502.9	12.7

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
13-16	Salcey Forest W	Ancient Woodland	479211.7	251509.3	9510.7	12.7
13-17	Salcey Forest W	Ancient Woodland	479203.2	251504.0	9510.9	12.7
13-18	Salcey Forest W	Ancient Woodland	479194.8	251498.6	9507.7	12.7
13-19	Salcey Forest W	Ancient Woodland	479186.3	251493.3	9504.6	12.7
13-20	Salcey Forest W	Ancient Woodland	479177.9	251488.0	9501.4	12.7
13-21	Salcey Forest W	Ancient Woodland	479172.9	251484.8	9499.6	12.7
14-1	Salcey Forest NE	Ancient Woodland	479018.7	252218.2	8926.8	13.4
14-2	Salcey Forest NE	Ancient Woodland	479025.2	252225.8	8927.5	13.4
14-3	Salcey Forest NE	Ancient Woodland	479031.7	252233.4	8928.3	13.4
14-4	Salcey Forest NE	Ancient Woodland	479038.2	252241.0	8929.0	13.4
14-5	Salcey Forest NE	Ancient Woodland	479044.7	252248.6	8929.7	13.4
14-6	Salcey Forest NE	Ancient Woodland	479051.2	252256.2	8930.5	13.4
14-7	Salcey Forest NE	Ancient Woodland	479057.7	252263.8	8931.3	13.4
14-8	Salcey Forest NE	Ancient Woodland	479064.2	252271.4	8932.0	13.4
14-9	Salcey Forest NE	Ancient Woodland	479070.7	252279.0	8932.8	13.4
14-10	Salcey Forest NE	Ancient Woodland	479077.2	252286.6	8933.6	13.4
14-11	Salcey Forest NE	Ancient Woodland	479083.7	252294.2	8934.4	13.4

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
14-12	Salcey Forest NE	Ancient Woodland	479090.2	252301.8	8935.3	13.4
14-13	Salcey Forest NE	Ancient Woodland	479096.7	252309.4	8936.1	13.4
14-14	Salcey Forest NE	Ancient Woodland	479103.2	252317.0	8936.9	13.4
14-15	Salcey Forest NE	Ancient Woodland	479104.3	252318.3	8937.1	13.4
15-1	Little Horton Wood	Ancient Woodland	481615.2	252283.0	7244.6	11.7
15-2	Little Horton Wood	Ancient Woodland	481625.1	252284.3	7234.8	11.7
15-3	Little Horton Wood	Ancient Woodland	481635.0	252285.7	7224.9	11.7
15-4	Little Horton Wood	Ancient Woodland	481644.9	252287.0	7215.1	11.7
15-5	Little Horton Wood	Ancient Woodland	481654.8	252288.3	7205.2	11.7
15-6	Little Horton Wood	Ancient Woodland	481664.7	252289.7	7195.4	11.7
15-7	Little Horton Wood	Ancient Woodland	481674.6	252291.0	7185.5	11.7
15-8	Little Horton Wood	Ancient Woodland	481684.5	252292.4	7175.6	11.7
15-9	Little Horton Wood	Ancient Woodland	481694.4	252293.7	7165.8	11.7
15-10	Little Horton Wood	Ancient Woodland	481704.4	252295.0	7155.9	11.7
15-11	Little Horton Wood	Ancient Woodland	481714.3	252296.4	7146.1	11.7
15-12	Little Horton Wood	Ancient Woodland	481724.2	252297.7	7136.2	11.7
15-13	Little Horton Wood	Ancient Woodland	481734.1	252299.0	7126.4	11.6

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
15-14	Little Horton Wood	Ancient Woodland	481744.0	252300.4	7116.5	11.6
15-15	Little Horton Wood	Ancient Woodland	481753.9	252301.7	7106.7	11.6
15-16	Little Horton Wood	Ancient Woodland	481763.8	252303.0	7096.8	11.6
15-17	Little Horton Wood	Ancient Woodland	481773.7	252304.4	7086.9	11.6
15-18	Little Horton Wood	Ancient Woodland	481783.6	252305.7	7077.1	11.6
15-19	Little Horton Wood	Ancient Woodland	481793.5	252307.0	7067.2	11.6
15-20	Little Horton Wood	Ancient Woodland	481801.2	252308.1	7059.7	11.6
16-1	Arniss/Sane Copses	Ancient Woodland	487298.4	254422.2	2847.9	11.2
16-2	Arniss/Sane Copses	Ancient Woodland	487289.1	254418.4	2849.8	11.2
16-3	Arniss/Sane Copses	Ancient Woodland	487279.0	254414.3	2852.0	11.2
17-1	Old Pond Close E	Ancient Woodland	487564.0	254950.3	3186.0	11.7
17-2	Old Pond Close E	Ancient Woodland	487574.0	254949.2	3181.0	11.7
17-3	Old Pond Close E	Ancient Woodland	487583.9	254948.2	3176.1	11.7
17-4	Old Pond Close E	Ancient Woodland	487593.8	254947.1	3171.2	11.7
17-5	Old Pond Close E	Ancient Woodland	487603.8	254946.1	3166.3	11.7
17-6	Old Pond Close E	Ancient Woodland	487613.7	254945.0	3161.4	11.7
17-7	Old Pond Close E	Ancient Woodland	487623.7	254944.0	3156.5	11.7

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
17-8	Old Pond Close E	Ancient Woodland	487633.6	254943.0	3151.7	11.7
17-9	Old Pond Close E	Ancient Woodland	487643.6	254941.9	3146.9	11.6
17-10	Old Pond Close E	Ancient Woodland	487653.5	254940.9	3142.1	11.6
17-11	Old Pond Close E	Ancient Woodland	487663.5	254939.8	3137.3	11.6
17-12	Old Pond Close E	Ancient Woodland	487673.4	254938.8	3132.6	11.6
17-13	Old Pond Close E	Ancient Woodland	487683.4	254937.7	3127.9	11.6
17-14	Old Pond Close E	Ancient Woodland	487693.3	254936.7	3123.2	11.6
17-15	Old Pond Close E	Ancient Woodland	487703.2	254935.6	3118.5	11.6
17-16	Old Pond Close E	Ancient Woodland	487713.2	254934.6	3113.9	11.6
17-17	Old Pond Close E	Ancient Woodland	487723.1	254933.5	3109.3	11.6
17-18	Old Pond Close E	Ancient Woodland	487733.1	254932.5	3104.7	11.6
17-19	Old Pond Close E	Ancient Woodland	487743.0	254931.5	3100.2	11.6
17-20	Old Pond Close E	Ancient Woodland	487753.0	254930.4	3095.6	11.6
17-21	Old Pond Close E	Ancient Woodland	487762.9	254929.4	3091.1	11.6
18-1	Old Pond Close W	Ancient Woodland	487558.1	254950.2	3188.3	11.7
18-2	Old Pond Close W	Ancient Woodland	487548.2	254951.4	3193.5	11.7
18-3	Old Pond Close W	Ancient Woodland	487538.3	254952.6	3198.7	11.7

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
18-4	Old Pond Close W	Ancient Woodland	487528.4	254953.9	3203.9	11.7
18-5	Old Pond Close W	Ancient Woodland	487518.4	254955.1	3209.2	11.7
18-6	Old Pond Close W	Ancient Woodland	487508.5	254956.3	3214.4	11.7
18-7	Old Pond Close W	Ancient Woodland	487498.6	254957.6	3219.7	11.7
18-8	Old Pond Close W	Ancient Woodland	487488.7	254958.8	3225.0	11.7
18-9	Old Pond Close W	Ancient Woodland	487478.7	254960.0	3230.3	11.7
18-10	Old Pond Close W	Ancient Woodland	487468.8	254961.2	3235.7	11.7
18-11	Old Pond Close W	Ancient Woodland	487458.9	254962.5	3241.1	11.7
18-12	Old Pond Close W	Ancient Woodland	487449.0	254963.7	3246.5	11.7
18-13	Old Pond Close W	Ancient Woodland	487439.0	254964.9	3251.9	11.7
18-14	Old Pond Close W	Ancient Woodland	487429.1	254966.1	3257.3	11.7
18-15	Old Pond Close W	Ancient Woodland	487419.2	254967.4	3262.8	11.7
18-16	Old Pond Close W	Ancient Woodland	487409.3	254968.6	3268.2	11.7
18-17	Old Pond Close W	Ancient Woodland	487399.3	254969.8	3273.7	11.7
18-18	Old Pond Close W	Ancient Woodland	487389.4	254971.0	3279.3	11.7
18-19	Old Pond Close W	Ancient Woodland	487379.5	254972.3	3284.8	11.7
18-20	Old Pond Close W	Ancient Woodland	487369.6	254973.5	3290.4	11.7

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
18-21	Old Pond Close W	Ancient Woodland	487359.6	254974.7	3296.0	11.7
19-1	Unnamed Wood (ID:1503134)	Ancient Woodland	488699.3	248294.0	222.5	4.9
19-2	Unnamed Wood (ID:1503134)	Ancient Woodland	488701.6	248284.3	223.2	4.9
19-3	Unnamed Wood (ID:1503134)	Ancient Woodland	488703.8	248274.5	223.9	4.9
19-4	Unnamed Wood (ID:1503134)	Ancient Woodland	488706.1	248264.8	224.6	4.9
19-5	Unnamed Wood (ID:1503134)	Ancient Woodland	488708.3	248255.0	225.3	4.9
19-6	Unnamed Wood (ID:1503134)	Ancient Woodland	488710.5	248245.3	225.9	4.9
19-7	Unnamed Wood (ID:1503134)	Ancient Woodland	488712.8	248235.5	226.6	4.9
19-8	Unnamed Wood (ID:1503134)	Ancient Woodland	488715.03	248225.8	227.3	4.8
19-9	Unnamed Wood (ID:1503134)	Ancient Woodland	488717.3	248216.1	228.0	4.8
19-10	Unnamed Wood (ID:1503134)	Ancient Woodland	488719.5	248206.3	228.7	4.8
19-11	Unnamed Wood (ID:1503134)	Ancient Woodland	488721.8	248196.6	229.4	4.8
19-12	Unnamed Wood (ID:1503134)	Ancient Woodland	488722.7	248192.3	229.7	4.8
20-1	Linford Wood South	Ancient Woodland	484672.8	239889.1	92.0	3.5
20-2	Linford Wood South	Ancient Woodland	484668.1	239897.9	100.4	3.5

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
20-3	Linford Wood South	Ancient Woodland	484663.3	239906.6	109.1	3.5
20-4	Linford Wood South	Ancient Woodland	484658.5	239915.4	118.0	3.5
20-5	Linford Wood South	Ancient Woodland	484653.7	239924.2	127.0	3.5
20-6	Linford Wood South	Ancient Woodland	484648.9	239933.0	136.2	3.5
20-7	Linford Wood South	Ancient Woodland	484644.1	239941.8	145.5	3.5
20-8	Linford Wood South	Ancient Woodland	484639.3	239950.5	154.9	3.5
20-9	Linford Wood South	Ancient Woodland	484634.5	239959.3	164.3	3.5
20-10	Linford Wood South	Ancient Woodland	484629.7	239968.1	173.8	3.5
20-11	Linford Wood South	Ancient Woodland	484624.9	239976.9	183.4	3.5
20-12	Linford Wood South	Ancient Woodland	484620.1	239985.7	193.0	3.5
20-13	Linford Wood South	Ancient Woodland	484615.4	239994.4	202.7	3.5
20-14	Linford Wood South	Ancient Woodland	484610.6	240003.2	212.3	3.5
20-15	Linford Wood South	Ancient Woodland	484606.5	240010.6	220.5	3.5
21-1	Stanton Wood	Ancient Woodland	484560.5	239786.4	103.7	3.7
21-2	Stanton Wood	Ancient Woodland	484556.1	239795.4	107.5	3.7
21-3	Stanton Wood	Ancient Woodland	484551.7	239804.4	112.1	3.7
21-4	Stanton Wood	Ancient Woodland	484547.3	239813.4	117.3	3.7
21-5	Stanton Wood	Ancient Woodland	484542.9	239822.4	123.1	3.7

Transect receptor	Name	Designation	Grid reference		Distance to road link (m)	Distance to site boundary (km)
			X	Y		
21-6	Stanton Wood	Ancient Woodland	484538.6	239831.3	129.5	3.7
21-7	Stanton Wood	Ancient Woodland	484534.2	239840.3	136.3	3.7
21-8	Stanton Wood	Ancient Woodland	484529.8	239849.3	143.4	3.7
21-9	Stanton Wood	Ancient Woodland	484525.4	239858.3	150.9	3.7
21-10	Stanton Wood	Ancient Woodland	484521.0	239867.3	158.7	3.7
21-11	Stanton Wood	Ancient Woodland	484516.6	239876.3	166.7	3.7
21-12	Stanton Wood	Ancient Woodland	484512.2	239885.3	174.9	3.7
21-13	Stanton Wood	Ancient Woodland	484507.9	239894.2	183.3	3.7
21-14	Stanton Wood	Ancient Woodland	484503.5	239903.2	191.8	3.7
21-15	Stanton Wood	Ancient Woodland	484499.1	239912.2	200.5	3.7
21-16	Stanton Wood	Ancient Woodland	484494.7	239921.2	209.3	3.7
21-17	Stanton Wood	Ancient Woodland	484490.3	239930.2	218.2	3.7

Appendix G5

Results for Human Receptors



Table G-9 – Impacts on annual mean NO₂ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R1	2	37.8	18.2	19.0	0.8	Negligible	21.5	21.6	0.1	Negligible
R2	1	17.7	10.5	10.4	-0.1	Negligible	10.6	10.7	0.1	Negligible
R3	1	20.1	11.2	11.3	0.1	Negligible	11.3	11.6	0.3	Negligible
R4	2	29.8	14.8	15.4	0.6	Negligible	17.0	17.2	0.2	Negligible
R5	2	36.2	17.5	18.3	0.8	Negligible	20.5	20.6	0.1	Negligible
R6	1	15.1	9.3	9.6	0.3	Negligible	9.7	10.2	0.5	Negligible
R7	1	12.8	8.4	8.5	0.1	Negligible	8.6	8.7	0.1	Negligible
R8	1	19.5	12.7	12.7	<0.1	Negligible	12.9	12.9	<0.1	Negligible
R9	1	15.2	10.2	10.2	<0.1	Negligible	10.3	10.3	<0.1	Negligible
R10	1	15.9	10.9	10.9	<0.1	Negligible	11.0	11.0	<0.1	Negligible
R11	1	17.2	11.0	11.0	<0.1	Negligible	11.1	11.1	<0.1	Negligible
R12	1	17.8	11.1	11.0	-0.1	Negligible	11.4	11.4	<0.1	Negligible
R13	1	16.4	10.6	10.6	<0.1	Negligible	10.8	10.8	<0.1	Negligible
R14	1	11.5	7.7	7.7	<0.1	Negligible	8.1	8.0	-0.1	Negligible



Table G-9 – Impacts on annual mean NO₂ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R15	1	11.8	8.2	8.2	<0.1	Negligible	8.4	8.4	<0.1	Negligible
R16	1	11.8	8.2	8.2	<0.1	Negligible	8.3	8.3	<0.1	Negligible
R17	1	13.9	8.9	8.9	<0.1	Negligible	9.1	9.2	0.1	Negligible
R18	1	12.4	8.4	8.4	<0.1	Negligible	8.5	8.5	<0.1	Negligible
R19	1	13.6	8.9	9.0	0.1	Negligible	9.2	9.2	<0.1	Negligible
R20	1	14.6	9.6	9.6	<0.1	Negligible	9.8	9.8	<0.1	Negligible
R21	1	15.5	9.8	9.8	<0.1	Negligible	9.8	9.8	<0.1	Negligible
R22	1	19.3	12.2	12.2	<0.1	Negligible	12.6	12.6	<0.1	Negligible
R23	1	11.6	7.8	7.8	<0.1	Negligible	7.9	7.9	<0.1	Negligible
R24	1	16.1	10.1	10.1	<0.1	Negligible	10.3	10.3	<0.1	Negligible
R25	1	16.5	10.5	10.5	<0.1	Negligible	10.6	10.6	<0.1	Negligible
R26	1	14.8	9.9	9.9	<0.1	Negligible	10.0	10.0	<0.1	Negligible
R27	1	16.1	10.3	10.4	0.1	Negligible	10.7	10.7	<0.1	Negligible
R28	1	15.4	9.9	9.9	<0.1	Negligible	10.0	10.0	<0.1	Negligible
R29	1	16.3	10.2	10.2	<0.1	Negligible	10.3	10.3	<0.1	Negligible



Table G-9 – Impacts on annual mean NO₂ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R30	1	16.1	11.0	11.0	<0.1	Negligible	11.3	11.3	<0.1	Negligible
R31	1	16.5	10.8	10.8	<0.1	Negligible	11.2	11.2	<0.1	Negligible
R32	1	25.1	12.6	12.6	<0.1	Negligible	13.1	13.1	<0.1	Negligible
R33	1	37.2	17.6	17.7	0.1	Negligible	18.7	18.6	-0.1	Negligible
R34	1	13.4	8.1	8.1	<0.1	Negligible	8.3	8.4	0.1	Negligible
R35	1	21.6	11.1	11.1	<0.1	Negligible	11.3	11.3	<0.1	Negligible
R36	1	29.4	14.6	14.6	<0.1	Negligible	15.4	15.4	<0.1	Negligible
R37	1	13.1	8.2	8.2	<0.1	Negligible	8.5	8.5	<0.1	Negligible
R38	1	16.9	11.0	11.0	<0.1	Negligible	11.3	11.3	<0.1	Negligible
R39	1	23.7	14.6	14.6	<0.1	Negligible	14.8	14.8	<0.1	Negligible
R40	1	9.4	6.9	6.9	<0.1	Negligible	7.3	7.3	<0.1	Negligible
R41	1	14.1	8.4	8.4	<0.1	Negligible	8.6	8.6	<0.1	Negligible
R42	1	14.6	8.5	8.5	<0.1	Negligible	8.7	8.7	<0.1	Negligible
R43	1	14.8	9.0	9.0	<0.1	Negligible	9.2	9.2	<0.1	Negligible
R44	1	17.8	10.4	10.4	<0.1	Negligible	10.8	10.8	<0.1	Negligible



Table G-9 – Impacts on annual mean NO₂ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R45	1	16.8	10.0	10.0	<0.1	Negligible	10.2	10.2	<0.1	Negligible
R46	1	15.8	9.9	9.9	<0.1	Negligible	10.1	10.1	<0.1	Negligible
R47	1	14.3	9.5	9.5	<0.1	Negligible	9.6	9.7	0.1	Negligible
R48	1	12.2	8.0	8.1	0.1	Negligible	8.3	8.3	<0.1	Negligible
R49	1	14.4	9.7	9.8	0.1	Negligible	10.1	10.1	<0.1	Negligible
R50	1	15.3	10.0	10.0	<0.1	Negligible	10.1	10.1	<0.1	Negligible
R51	1	15.1	9.7	9.8	0.1	Negligible	9.9	9.9	<0.1	Negligible
R52	1	17.2	10.4	10.4	<0.1	Negligible	10.4	10.3	-0.1	Negligible
R53	1	13.4	8.8	8.9	0.1	Negligible	9.2	9.2	<0.1	Negligible
R54	1	15.5	9.8	9.9	0.1	Negligible	10.1	10.1	<0.1	Negligible
R55	1	18.0	10.6	10.7	0.1	Negligible	10.8	10.8	<0.1	Negligible
R56	1	17.7	11.0	11.1	0.1	Negligible	11.2	11.3	0.1	Negligible
R57	1	18.6	11.9	12.0	0.1	Negligible	12.2	12.2	<0.1	Negligible
R58	1	17.2	11.6	11.6	<0.1	Negligible	11.8	11.8	<0.1	Negligible
R59	1	17.3	11.5	11.5	<0.1	Negligible	11.7	11.7	<0.1	Negligible



Table G-9 – Impacts on annual mean NO₂ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R60	1	18.0	12.7	12.8	0.1	Negligible	12.9	12.9	<0.1	Negligible
R61	1	18.4	12.2	12.2	<0.1	Negligible	12.5	12.5	<0.1	Negligible
R62	1	17.1	10.5	10.5	<0.1	Negligible	10.6	10.6	<0.1	Negligible
R63	1	23.4	13.2	13.2	<0.1	Negligible	13.5	13.5	<0.1	Negligible
R64	1	17.5	10.8	10.8	<0.1	Negligible	10.9	11.0	0.1	Negligible
R65	1	24.5	13.3	13.3	<0.1	Negligible	13.6	13.6	<0.1	Negligible
R66	1	14.7	9.7	9.7	<0.1	Negligible	9.9	9.9	<0.1	Negligible
R67	1	12.4	8.4	8.5	0.1	Negligible	8.6	8.7	0.1	Negligible
R68	1	11.7	8.1	8.1	<0.1	Negligible	8.4	8.5	0.1	Negligible
R69	1	11.2	7.8	7.8	<0.1	Negligible	7.9	8.0	0.1	Negligible
R70	1	15.7	9.6	9.6	<0.1	Negligible	9.8	9.8	<0.1	Negligible
R71	1	14.8	8.7	8.9	0.2	Negligible	8.9	9.1	0.2	Negligible
R72	1	12.0	7.5	7.5	<0.1	Negligible	7.7	7.7	<0.1	Negligible
R73	1	10.5	6.9	6.9	<0.1	Negligible	7.2	7.2	<0.1	Negligible
R74	1	10.9	7.4	7.4	<0.1	Negligible	7.6	7.6	<0.1	Negligible



Table G-9 – Impacts on annual mean NO₂ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R75	1	11.7	8.0	8.0	<0.1	Negligible	8.1	8.2	0.1	Negligible
R76	1	13.5	8.5	8.5	<0.1	Negligible	8.9	8.9	<0.1	Negligible
R77	1	16.8	10.5	10.3	-0.2	Negligible	10.6	10.7	0.1	Negligible
R78	1	17.9	10.7	10.6	-0.1	Negligible	11.0	11.1	0.1	Negligible
R79	1	21.0	12.1	12.0	-0.1	Negligible	12.3	12.3	<0.1	Negligible
R80	1	13.1	9.0	9.0	<0.1	Negligible	9.9	10.0	0.1	Negligible
R81	1	18.1	11.8	11.8	<0.1	Negligible	12.1	12.1	<0.1	Negligible
R82	1	15.7	10.4	10.4	<0.1	Negligible	10.9	10.9	<0.1	Negligible
R83	1	15.8	10.1	10.1	<0.1	Negligible	10.2	10.2	<0.1	Negligible
R84	1	18.1	10.5	10.5	<0.1	Negligible	11.1	11.1	<0.1	Negligible
R85	1	10.2	6.7	6.7	<0.1	Negligible	6.8	6.8	<0.1	Negligible
R86	1	11.0	7.1	7.1	<0.1	Negligible	7.2	7.2	<0.1	Negligible
R87	1	11.7	8.2	8.2	<0.1	Negligible	8.5	8.6	0.1	Negligible
R88	1	10.2	7.3	7.3	<0.1	Negligible	7.4	7.4	<0.1	Negligible
R89	1	12.7	8.2	8.2	<0.1	Negligible	8.4	8.4	<0.1	Negligible



Table G-9 – Impacts on annual mean NO₂ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R90	1	14.2	9.1	9.2	0.1	Negligible	9.3	9.5	0.2	Negligible
FR1	1	-	-	10.6	-	N/A	-	10.8	-	N/A
FR2	1	-	-	13.3	-	N/A	-	13.6	-	N/A
FR3	1	-	-	9.6	-	N/A	-	10.0	-	N/A
FR4	1	-	-	9.1	-	N/A	-	9.3	-	N/A
FR5	1	-	-	10.1	-	N/A	-	10.4	-	N/A
FR6	1	-	-	9.0	-	N/A	-	9.2	-	N/A
FR7	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FR8	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Concentrations rounded to 1 decimal place.

N/A = not applicable.



Table G-10 – Impacts on annual mean PM₁₀ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R1	2	21.1	20.2	20.7	0.5	Negligible	21.7	21.9	0.2	Negligible
R2	1	18.1	16.9	16.9	<0.1	Negligible	16.9	17.0	0.1	Negligible
R3	1	17.7	16.4	16.6	0.2	Negligible	16.4	16.7	0.3	Negligible
R4	2	19.7	18.7	19.0	0.3	Negligible	19.7	19.8	0.1	Negligible
R5	2	20.8	20.0	20.4	0.4	Negligible	21.3	21.4	0.1	Negligible
R6	1	16.9	15.8	15.9	0.1	Negligible	15.9	16.1	0.2	Negligible
R7	1	15.9	14.8	14.8	<0.1	Negligible	14.9	14.9	<0.1	Negligible
R8	1	16.8	15.6	15.6	<0.1	Negligible	15.7	15.7	<0.1	Negligible
R9	1	17.0	15.8	15.8	<0.1	Negligible	15.9	15.9	<0.1	Negligible
R10	1	16.7	15.5	15.5	<0.1	Negligible	15.5	15.5	<0.1	Negligible
R11	1	18.2	16.9	17.0	0.1	Negligible	17.0	17.0	<0.1	Negligible
R12	1	17.0	15.8	15.8	<0.1	Negligible	16.0	16.0	<0.1	Negligible
R13	1	16.7	15.5	15.5	<0.1	Negligible	15.6	15.6	<0.1	Negligible
R14	1	15.6	14.4	14.4	<0.1	Negligible	14.7	14.6	-0.1	Negligible
R15	1	15.9	14.7	14.7	<0.1	Negligible	14.8	14.8	<0.1	Negligible



Table G-10 – Impacts on annual mean PM₁₀ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R16	1	15.9	14.7	14.7	<0.1	Negligible	14.8	14.8	<0.1	Negligible
R17	1	15.6	14.5	14.5	<0.1	Negligible	14.6	14.6	<0.1	Negligible
R18	1	16.0	14.8	14.8	<0.1	Negligible	14.9	14.9	<0.1	Negligible
R19	1	15.9	14.7	14.7	<0.1	Negligible	14.8	14.8	<0.1	Negligible
R20	1	16.1	14.9	14.9	<0.1	Negligible	15.0	15.0	<0.1	Negligible
R21	1	16.5	15.3	15.3	<0.1	Negligible	15.3	15.3	<0.1	Negligible
R22	1	16.3	15.1	15.1	<0.1	Negligible	15.3	15.3	<0.1	Negligible
R23	1	14.5	13.4	13.4	<0.1	Negligible	13.5	13.5	<0.1	Negligible
R24	1	16.3	15.1	15.1	<0.1	Negligible	15.2	15.2	<0.1	Negligible
R25	1	16.0	14.8	14.8	<0.1	Negligible	14.8	14.8	<0.1	Negligible
R26	1	15.7	14.5	14.5	<0.1	Negligible	14.5	14.5	<0.1	Negligible
R27	1	15.8	14.6	14.6	<0.1	Negligible	14.8	14.8	<0.1	Negligible
R28	1	15.8	14.6	14.6	<0.1	Negligible	14.6	14.6	<0.1	Negligible
R29	1	16.4	15.2	15.2	<0.1	Negligible	15.2	15.2	<0.1	Negligible
R30	1	17.1	16.2	16.2	<0.1	Negligible	16.4	16.4	<0.1	Negligible



Table G-10 – Impacts on annual mean PM₁₀ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R31	1	16.6	15.7	15.7	<0.1	Negligible	15.9	15.9	<0.1	Negligible
R32	1	19.0	17.9	17.9	<0.1	Negligible	18.0	18.0	<0.1	Negligible
R33	1	19.6	18.6	18.7	0.1	Negligible	18.9	19.0	0.1	Negligible
R34	1	16.1	15.0	15.0	<0.1	Negligible	15.1	15.1	<0.1	Negligible
R35	1	17.2	16.0	16.0	<0.1	Negligible	16.1	16.1	<0.1	Negligible
R36	1	19.9	18.7	18.8	0.1	Negligible	19.1	19.1	<0.1	Negligible
R37	1	15.8	14.7	14.7	<0.1	Negligible	14.9	14.9	<0.1	Negligible
R38	1	17.1	16.4	16.4	<0.1	Negligible	16.5	16.5	<0.1	Negligible
R39	1	19.3	18.6	18.6	<0.1	Negligible	18.7	18.7	<0.1	Negligible
R40	1	13.9	12.9	12.9	<0.1	Negligible	13.1	13.1	<0.1	Negligible
R41	1	15.6	14.5	14.5	<0.1	Negligible	14.6	14.6	<0.1	Negligible
R42	1	15.1	13.9	13.9	<0.1	Negligible	14.0	14.0	<0.1	Negligible
R43	1	15.3	14.1	14.1	<0.1	Negligible	14.2	14.2	<0.1	Negligible
R44	1	15.9	14.7	14.7	<0.1	Negligible	14.8	14.8	<0.1	Negligible
R45	1	16.5	15.3	15.3	<0.1	Negligible	15.3	15.4	0.1	Negligible



Table G-10 – Impacts on annual mean PM₁₀ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R46	1	17.9	16.7	16.7	<0.1	Negligible	16.8	16.8	<0.1	Negligible
R47	1	17.0	15.8	15.8	<0.1	Negligible	15.9	15.9	<0.1	Negligible
R48	1	15.0	13.8	13.9	0.1	Negligible	14.0	14.0	<0.1	Negligible
R49	1	16.9	15.8	15.8	<0.1	Negligible	16.0	16.0	<0.1	Negligible
R50	1	18.0	16.8	16.8	<0.1	Negligible	16.9	16.9	<0.1	Negligible
R51	1	17.4	16.2	16.2	<0.1	Negligible	16.3	16.3	<0.1	Negligible
R52	1	17.8	16.5	16.5	<0.1	Negligible	16.5	16.5	<0.1	Negligible
R53	1	16.6	15.5	15.5	<0.1	Negligible	15.7	15.7	<0.1	Negligible
R54	1	18.0	16.9	16.9	<0.1	Negligible	17.0	17.0	<0.1	Negligible
R55	1	18.6	17.4	17.4	<0.1	Negligible	17.4	17.5	0.1	Negligible
R56	1	17.5	16.4	16.4	<0.1	Negligible	16.5	16.5	<0.1	Negligible
R57	1	17.4	16.2	16.2	<0.1	Negligible	16.3	16.3	<0.1	Negligible
R58	1	17.1	16.0	16.0	<0.1	Negligible	16.1	16.1	<0.1	Negligible
R59	1	17.2	16.0	16.0	<0.1	Negligible	16.1	16.1	<0.1	Negligible
R60	1	17.1	16.0	16.0	<0.1	Negligible	16.0	16.0	<0.1	Negligible



Table G-10 – Impacts on annual mean PM₁₀ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R61	1	16.5	15.3	15.3	<0.1	Negligible	15.4	15.4	<0.1	Negligible
R62	1	17.0	15.9	15.9	<0.1	Negligible	16.0	16.0	<0.1	Negligible
R63	1	18.7	17.6	17.6	<0.1	Negligible	17.7	17.8	0.1	Negligible
R64	1	18.1	16.9	16.9	<0.1	Negligible	17.0	17.0	<0.1	Negligible
R65	1	19.6	18.4	18.4	<0.1	Negligible	18.5	18.5	<0.1	Negligible
R66	1	15.5	14.4	14.4	<0.1	Negligible	14.5	14.5	<0.1	Negligible
R67	1	14.9	13.8	13.8	<0.1	Negligible	13.9	13.9	<0.1	Negligible
R68	1	15.2	14.1	14.1	<0.1	Negligible	14.2	14.3	0.1	Negligible
R69	1	15.8	14.7	14.7	<0.1	Negligible	14.7	14.8	0.1	Negligible
R70	1	16.8	15.5	15.5	<0.1	Negligible	15.6	15.6	<0.1	Negligible
R71	1	16.3	15.1	15.2	0.1	Negligible	15.2	15.3	0.1	Negligible
R72	1	15.4	14.1	14.1	<0.1	Negligible	14.2	14.2	<0.1	Negligible
R73	1	14.6	13.5	13.5	<0.1	Negligible	13.7	13.7	<0.1	Negligible
R74	1	16.2	15.0	15.0	<0.1	Negligible	15.1	15.1	<0.1	Negligible
R75	1	16.2	15.0	15.1	0.1	Negligible	15.1	15.1	<0.1	Negligible



Table G-10 – Impacts on annual mean PM₁₀ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R76	1	15.7	14.6	14.6	<0.1	Negligible	14.7	14.8	0.1	Negligible
R77	1	18.4	17.3	17.2	-0.1	Negligible	17.4	17.4	<0.1	Negligible
R78	1	18.6	17.4	17.4	<0.1	Negligible	17.6	17.6	<0.1	Negligible
R79	1	19.2	18.0	18.0	<0.1	Negligible	18.0	18.1	0.1	Negligible
R80	1	16.1	14.9	14.9	<0.1	Negligible	15.3	15.4	0.1	Negligible
R81	1	15.5	14.3	14.3	<0.1	Negligible	14.5	14.5	<0.1	Negligible
R82	1	15.7	14.6	14.6	<0.1	Negligible	14.9	14.9	<0.1	Negligible
R83	1	15.7	14.5	14.5	<0.1	Negligible	14.5	14.5	<0.1	Negligible
R84	1	16.6	15.4	15.4	<0.1	Negligible	15.7	15.7	<0.1	Negligible
R85	1	14.5	13.4	13.4	<0.1	Negligible	13.5	13.5	<0.1	Negligible
R86	1	15.0	13.8	13.9	0.1	Negligible	13.9	13.9	<0.1	Negligible
R87	1	15.5	14.4	14.4	<0.1	Negligible	14.5	14.5	<0.1	Negligible
R88	1	15.2	14.0	14.0	<0.1	Negligible	14.1	14.1	<0.1	Negligible
R89	1	15.3	14.2	14.2	<0.1	Negligible	14.3	14.3	<0.1	Negligible
R90	1	16.8	15.7	15.7	<0.1	Negligible	15.7	15.9	0.2	Negligible



Table G-10 – Impacts on annual mean PM₁₀ concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
FR1	1	-	-	17.0	-	N/A	-	17.1	-	N/A
FR2	1	-	-	17.7	-	N/A	-	17.9	-	N/A
FR3	1	-	-	16.5	-	N/A	-	16.7	-	N/A
FR4	1	-	-	16.1	-	N/A	-	16.3	-	N/A
FR5	1	-	-	16.8	-	N/A	-	16.9	-	N/A
FR6	1	-	-	15.7	-	N/A	-	15.7	-	N/A
FR7	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FR8	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Concentrations rounded to 1 decimal place.

N/A = not applicable.



Table G-11 – Impacts on 24-hour mean PM₁₀ concentrations (number of days exceeding 50µg/m³, where up to 35 are allowed)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2048 Without Proposed Development	2048 With Proposed Development	2048 Change
R1	2	5	4	4	0	6	6	0
R2	1	1	1	1	0	1	1	0
R3	1	1	0	1	1	0	1	1
R4	2	3	2	2	0	3	3	0
R5	2	4	3	4	1	5	5	0
R6	1	1	0	0	0	0	0	0
R7	1	0	0	0	0	0	0	0
R8	1	1	0	0	0	0	0	0
R9	1	1	0	0	0	0	0	0
R10	1	1	0	0	0	0	0	0
R11	1	2	1	1	0	1	1	0
R12	1	1	0	0	0	0	0	0
R13	1	1	0	0	0	0	0	0
R14	1	0	0	0	0	0	0	0
R15	1	0	0	0	0	0	0	0



Table G-11 – Impacts on 24-hour mean PM₁₀ concentrations (number of days exceeding 50µg/m³, where up to 35 are allowed)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2048 Without Proposed Development	2048 With Proposed Development	2048 Change
R16	1	0	0	0	0	0	0	0
R17	1	0	0	0	0	0	0	0
R18	1	0	0	0	0	0	0	0
R19	1	0	0	0	0	0	0	0
R20	1	0	0	0	0	0	0	0
R21	1	1	0	0	0	0	0	0
R22	1	0	0	0	0	0	0	0
R23	1	0	0	0	0	0	0	0
R24	1	0	0	0	0	0	0	0
R25	1	0	0	0	0	0	0	0
R26	1	0	0	0	0	0	0	0
R27	1	0	0	0	0	0	0	0
R28	1	0	0	0	0	0	0	0
R29	1	0	0	0	0	0	0	0
R30	1	1	0	0	0	0	0	0



Table G-11 – Impacts on 24-hour mean PM₁₀ concentrations (number of days exceeding 50µg/m³, where up to 35 are allowed)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2048 Without Proposed Development	2048 With Proposed Development	2048 Change
R31	1	1	0	0	0	0	0	0
R32	1	2	1	1	0	1	1	0
R33	1	3	2	2	0	2	2	0
R34	1	0	0	0	0	0	0	0
R35	1	1	0	0	0	0	0	0
R36	1	3	2	2	0	2	2	0
R37	1	0	0	0	0	0	0	0
R38	1	1	0	0	0	0	0	0
R39	1	3	2	2	0	2	2	0
R40	1	0	1	1	0	1	1	0
R41	1	0	0	0	0	0	0	0
R42	1	0	0	0	0	0	0	0
R43	1	0	0	0	0	0	0	0
R44	1	0	0	0	0	0	0	0
R45	1	0	0	0	0	0	0	0



Table G-11 – Impacts on 24-hour mean PM₁₀ concentrations (number of days exceeding 50µg/m³, where up to 35 are allowed)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2048 Without Proposed Development	2048 With Proposed Development	2048 Change
R46	1	1	1	1	0	1	1	0
R47	1	1	0	0	0	0	0	0
R48	1	0	0	0	0	0	0	0
R49	1	1	0	0	0	0	0	0
R50	1	1	1	1	0	1	1	0
R51	1	1	0	0	0	0	0	0
R52	1	1	1	1	0	1	1	0
R53	1	1	0	0	0	0	0	0
R54	1	1	1	1	0	1	1	0
R55	1	2	1	1	0	1	1	0
R56	1	1	0	0	0	0	1	1
R57	1	1	0	0	0	0	0	0
R58	1	1	0	0	0	0	0	0
R59	1	1	0	0	0	0	0	0
R60	1	1	0	0	0	0	0	0



Table G-11 – Impacts on 24-hour mean PM₁₀ concentrations (number of days exceeding 50µg/m³, where up to 35 are allowed)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2048 Without Proposed Development	2048 With Proposed Development	2048 Change
R61	1	1	0	0	0	0	0	0
R62	1	1	0	0	0	0	0	0
R63	1	2	1	1	0	1	1	0
R64	1	1	1	1	0	1	1	0
R65	1	3	2	2	0	2	2	0
R66	1	0	0	0	0	0	0	0
R67	1	0	0	0	0	0	0	0
R68	1	0	0	0	0	0	0	0
R69	1	0	0	0	0	0	0	0
R70	1	1	0	0	0	0	0	0
R71	1	0	0	0	0	0	0	0
R72	1	0	0	0	0	0	0	0
R73	1	0	0	0	0	0	0	0
R74	1	0	0	0	0	0	0	0
R75	1	0	0	0	0	0	0	0



Table G-11 – Impacts on 24-hour mean PM₁₀ concentrations (number of days exceeding 50µg/m³, where up to 35 are allowed)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2048 Without Proposed Development	2048 With Proposed Development	2048 Change
R76	1	0	0	0	0	0	0	0
R77	1	2	1	1	0	1	1	0
R78	1	2	1	1	0	1	1	0
R79	1	2	1	1	0	1	1	0
R80	1	0	0	0	0	0	0	0
R81	1	0	0	0	0	0	0	0
R82	1	0	0	0	0	0	0	0
R83	1	0	0	0	0	0	0	0
R84	1	1	0	0	0	0	0	0
R85	1	0	0	0	0	0	0	0
R86	1	0	0	0	0	0	0	0
R87	1	0	0	0	0	0	0	0
R88	1	0	0	0	0	0	0	0
R89	1	0	0	0	0	0	0	0
R90	1	1	0	0	0	0	0	0



Table G-11 – Impacts on 24-hour mean PM₁₀ concentrations (number of days exceeding 50µg/m³, where up to 35 are allowed)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2048 Without Proposed Development	2048 With Proposed Development	2048 Change
FR1	1	-	-	1	-	-	1	-
FR2	1	-	-	1	-	-	1	-
FR3	1	-	-	0	-	-	1	-
FR4	1	-	-	0	-	-	0	-
FR5	1	-	-	1	-	-	1	-
FR6	1	-	-	0	-	-	0	-
FR7	1	-	-	3	-	-	3	-
FR8	1	-	-	1	-	-	1	-



Table G-12 – Impacts on annual mean PM_{2.5} concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R1	2	13.3	12.4	12.6	0.2	Negligible	13.2	13.3	0.1	Negligible
R2	1	11.1	10.1	10.1	<0.1	Negligible	10.1	10.2	0.1	Negligible
R3	1	11.2	10.2	10.3	0.1	Negligible	10.2	10.4	0.2	Negligible
R4	2	12.4	11.5	11.6	0.1	Negligible	12.0	12.1	0.1	Negligible
R5	2	13.1	12.2	12.4	0.2	Negligible	13.0	13.1	0.1	Negligible
R6	1	10.5	9.6	9.6	<0.1	Negligible	9.7	9.8	0.1	Negligible
R7	1	10.1	9.1	9.1	<0.1	Negligible	9.2	9.2	<0.1	Negligible
R8	1	10.9	9.9	9.9	<0.1	Negligible	10.0	10.0	<0.1	Negligible
R9	1	11.0	10.1	10.1	<0.1	Negligible	10.1	10.1	<0.1	Negligible
R10	1	11.1	10.1	10.1	<0.1	Negligible	10.2	10.2	<0.1	Negligible
R11	1	11.7	10.7	10.7	<0.1	Negligible	10.8	10.8	<0.1	Negligible
R12	1	11.5	10.5	10.5	<0.1	Negligible	10.6	10.6	<0.1	Negligible
R13	1	11.3	10.4	10.4	<0.1	Negligible	10.4	10.4	<0.1	Negligible
R14	1	10.0	9.0	9.0	<0.1	Negligible	9.2	9.2	<0.1	Negligible
R15	1	10.5	9.5	9.5	<0.1	Negligible	9.6	9.6	<0.1	Negligible



Table G-12 – Impacts on annual mean PM_{2.5} concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R16	1	10.5	9.5	9.5	<0.1	Negligible	9.6	9.6	<0.1	Negligible
R17	1	10.4	9.4	9.4	<0.1	Negligible	9.5	9.5	<0.1	Negligible
R18	1	10.5	9.6	9.6	<0.1	Negligible	9.6	9.6	<0.1	Negligible
R19	1	10.9	9.9	9.9	<0.1	Negligible	10.0	10.0	<0.1	Negligible
R20	1	10.8	9.8	9.8	<0.1	Negligible	9.8	9.8	<0.1	Negligible
R21	1	11.4	10.4	10.4	<0.1	Negligible	10.4	10.4	<0.1	Negligible
R22	1	11.2	10.2	10.2	<0.1	Negligible	10.3	10.3	<0.1	Negligible
R23	1	9.6	8.6	8.6	<0.1	Negligible	8.7	8.7	<0.1	Negligible
R24	1	11.1	10.1	10.1	<0.1	Negligible	10.2	10.2	<0.1	Negligible
R25	1	10.9	10.0	10.0	<0.1	Negligible	10.0	10.0	<0.1	Negligible
R26	1	10.9	9.9	9.9	<0.1	Negligible	9.9	9.9	<0.1	Negligible
R27	1	10.9	9.9	9.9	<0.1	Negligible	10.0	10.0	<0.1	Negligible
R28	1	10.6	9.6	9.6	<0.1	Negligible	9.7	9.7	<0.1	Negligible
R29	1	10.9	9.9	9.9	<0.1	Negligible	9.9	9.9	<0.1	Negligible
R30	1	11.4	10.6	10.6	<0.1	Negligible	10.7	10.7	<0.1	Negligible



Table G-12 – Impacts on annual mean PM_{2.5} concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R31	1	11.0	10.2	10.2	<0.1	Negligible	10.3	10.3	<0.1	Negligible
R32	1	11.3	10.3	10.4	0.1	Negligible	10.4	10.4	<0.1	Negligible
R33	1	12.2	11.2	11.2	<0.1	Negligible	11.4	11.4	<0.1	Negligible
R34	1	9.8	8.9	8.9	<0.1	Negligible	9.0	9.0	<0.1	Negligible
R35	1	10.7	9.7	9.7	<0.1	Negligible	9.8	9.8	<0.1	Negligible
R36	1	12.6	11.6	11.6	<0.1	Negligible	11.7	11.8	0.1	Negligible
R37	1	10.1	9.2	9.2	<0.1	Negligible	9.3	9.3	<0.1	Negligible
R38	1	10.8	10.1	10.1	<0.1	Negligible	10.2	10.2	<0.1	Negligible
R39	1	11.9	11.1	11.2	0.1	Negligible	11.2	11.2	<0.1	Negligible
R40	1	9.2	8.3	8.3	<0.1	Negligible	8.4	8.4	<0.1	Negligible
R41	1	9.8	8.9	8.9	<0.1	Negligible	8.9	8.9	<0.1	Negligible
R42	1	9.7	8.7	8.7	<0.1	Negligible	8.8	8.8	<0.1	Negligible
R43	1	10.3	9.4	9.4	<0.1	Negligible	9.4	9.4	<0.1	Negligible
R44	1	10.5	9.5	9.5	<0.1	Negligible	9.6	9.6	<0.1	Negligible
R45	1	10.8	9.8	9.8	<0.1	Negligible	9.8	9.8	<0.1	Negligible



Table G-12 – Impacts on annual mean PM_{2.5} concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R46	1	11.7	10.7	10.7	<0.1	Negligible	10.8	10.8	<0.1	Negligible
R47	1	11.3	10.3	10.3	<0.1	Negligible	10.4	10.4	<0.1	Negligible
R48	1	10.0	9.0	9.1	0.1	Negligible	9.1	9.2	0.1	Negligible
R49	1	11.3	10.4	10.4	<0.1	Negligible	10.5	10.5	<0.1	Negligible
R50	1	11.6	10.6	10.6	<0.1	Negligible	10.7	10.7	<0.1	Negligible
R51	1	11.1	10.1	10.1	<0.1	Negligible	10.2	10.2	<0.1	Negligible
R52	1	11.3	10.3	10.3	<0.1	Negligible	10.3	10.3	<0.1	Negligible
R53	1	10.8	9.9	9.9	<0.1	Negligible	10.0	10.0	<0.1	Negligible
R54	1	11.5	10.5	10.5	<0.1	Negligible	10.6	10.6	<0.1	Negligible
R55	1	11.8	10.8	10.8	<0.1	Negligible	10.8	10.9	0.1	Negligible
R56	1	11.4	10.5	10.5	<0.1	Negligible	10.6	10.6	<0.1	Negligible
R57	1	11.2	10.2	10.3	0.1	Negligible	10.3	10.3	<0.1	Negligible
R58	1	11.0	10.1	10.1	<0.1	Negligible	10.2	10.2	<0.1	Negligible
R59	1	11.1	10.1	10.1	<0.1	Negligible	10.2	10.2	<0.1	Negligible
R60	1	11.0	10.0	10.0	<0.1	Negligible	10.1	10.1	<0.1	Negligible



Table G-12 – Impacts on annual mean PM_{2.5} concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R61	1	10.7	9.7	9.7	<0.1	Negligible	9.8	9.8	<0.1	Negligible
R62	1	10.8	9.9	9.9	<0.1	Negligible	9.9	9.9	<0.1	Negligible
R63	1	11.8	10.8	10.8	<0.1	Negligible	10.9	10.9	<0.1	Negligible
R64	1	11.7	10.7	10.7	<0.1	Negligible	10.7	10.7	<0.1	Negligible
R65	1	12.4	11.3	11.4	0.1	Negligible	11.4	11.4	<0.1	Negligible
R66	1	10.5	9.5	9.5	<0.1	Negligible	9.6	9.6	<0.1	Negligible
R67	1	9.8	8.8	8.8	<0.1	Negligible	8.9	8.9	<0.1	Negligible
R68	1	9.8	8.9	8.9	<0.1	Negligible	9.0	9.0	<0.1	Negligible
R69	1	9.9	8.9	8.9	<0.1	Negligible	9.0	9.0	<0.1	Negligible
R70	1	10.7	9.7	9.7	<0.1	Negligible	9.7	9.7	<0.1	Negligible
R71	1	10.1	9.2	9.2	<0.1	Negligible	9.2	9.3	0.1	Negligible
R72	1	9.6	8.6	8.6	<0.1	Negligible	8.7	8.7	<0.1	Negligible
R73	1	9.4	8.5	8.5	<0.1	Negligible	8.6	8.6	<0.1	Negligible
R74	1	10.3	9.4	9.4	<0.1	Negligible	9.4	9.4	<0.1	Negligible
R75	1	10.0	9.0	9.0	<0.1	Negligible	9.1	9.1	<0.1	Negligible



Table G-12 – Impacts on annual mean PM_{2.5} concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
R76	1	10.2	9.2	9.3	0.1	Negligible	9.4	9.4	<0.1	Negligible
R77	1	11.8	10.8	10.8	<0.1	Negligible	10.9	10.9	<0.1	Negligible
R78	1	11.9	10.9	10.9	<0.1	Negligible	11.0	11.0	<0.1	Negligible
R79	1	12.1	11.1	11.1	<0.1	Negligible	11.1	11.1	<0.1	Negligible
R80	1	11.1	10.1	10.1	<0.1	Negligible	10.3	10.4	0.1	Negligible
R81	1	10.6	9.7	9.7	<0.1	Negligible	9.8	9.8	<0.1	Negligible
R82	1	10.5	9.6	9.6	<0.1	Negligible	9.7	9.7	<0.1	Negligible
R83	1	10.6	9.6	9.6	<0.1	Negligible	9.6	9.6	<0.1	Negligible
R84	1	10.7	9.7	9.7	<0.1	Negligible	9.9	9.9	<0.1	Negligible
R85	1	9.1	8.2	8.2	<0.1	Negligible	8.3	8.3	<0.1	Negligible
R86	1	9.5	8.6	8.6	<0.1	Negligible	8.6	8.6	<0.1	Negligible
R87	1	9.8	8.9	8.9	<0.1	Negligible	9.0	9.0	<0.1	Negligible
R88	1	9.6	8.6	8.6	<0.1	Negligible	8.7	8.7	<0.1	Negligible
R89	1	9.8	8.8	8.8	<0.1	Negligible	8.9	8.9	<0.1	Negligible
R90	1	10.4	9.5	9.5	<0.1	Negligible	9.5	9.6	0.1	Negligible



Table G-12 – Impacts on annual mean PM_{2.5} concentration (µg/m³)

Receptor	Verification Factor Group	2019 Base Year	2031 Without Proposed Development	2031 With Proposed Development	2031 Change	2031 Impact Magnitude	2048 Without Proposed Development	2048 With Proposed Development	2048 Change	2048 Impact Magnitude
FR1	1	10.9	-	10.2	-	N/A	-	10.2	-	N/A
FR2	1	11.7	-	10.9	-	N/A	-	11.0	-	N/A
FR3	1	10.6	-	9.8	-	N/A	-	9.9	-	N/A
FR4	1	10.5	-	9.6	-	N/A	-	9.7	-	N/A
FR5	1	10.9	-	10.0	-	N/A	-	10.1	-	N/A
FR6	1	10.4	-	9.5	-	N/A	-	9.5	-	N/A
FR7	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FR8	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Concentrations rounded to 1 decimal place.

N/A = not applicable.

Appendix G6

Results for Ecological Receptors



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
1-1	Lower Wood	Ancient Woodland	5.9	17.3	10.9	11.3	0.2	0.7%
1-2	Lower Wood	Ancient Woodland	15.9	16.2	10.5	10.7	0.1	0.3%
1-3	Lower Wood	Ancient Woodland	25.9	15.8	10.4	10.5	0.1	0.2%
1-4	Lower Wood	Ancient Woodland	35.9	15.7	10.4	10.4	<0.1	0.1%
1-5	Lower Wood	Ancient Woodland	45.9	15.6	10.3	10.4	<0.1	0.1%
1-6	Lower Wood	Ancient Woodland	55.9	15.5	10.3	10.4	<0.1	0.1%
1-7	Lower Wood	Ancient Woodland	65.9	15.5	10.3	10.3	<0.1	0.1%
1-8	Lower Wood	Ancient Woodland	75.9	15.5	10.3	10.3	<0.1	0.1%
1-9	Lower Wood	Ancient Woodland	85.9	15.4	10.3	10.3	<0.1	0.1%
1-10	Lower Wood	Ancient Woodland	95.9	15.4	10.3	10.3	<0.1	0.1%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
1-11	Lower Wood	Ancient Woodland	105.9	15.4	10.3	10.3	<0.1	0.1%
1-12	Lower Wood	Ancient Woodland	115.9	15.4	10.3	10.3	<0.1	0.1%
1-13	Lower Wood	Ancient Woodland	125.9	15.4	10.3	10.3	<0.1	0.1%
1-14	Lower Wood	Ancient Woodland	135.9	15.4	10.3	10.3	<0.1	0.1%
1-15	Lower Wood	Ancient Woodland	145.9	15.4	10.3	10.3	<0.1	0.1%
1-16	Lower Wood	Ancient Woodland	155.9	15.4	10.3	10.3	<0.1	<0.1%
1-17	Lower Wood	Ancient Woodland	165.9	15.4	10.3	10.3	<0.1	<0.1%
1-18	Lower Wood	Ancient Woodland	175.9	15.4	10.3	10.3	<0.1	<0.1%
1-19	Lower Wood	Ancient Woodland	185.9	15.4	10.3	10.3	<0.1	<0.1%
1-20	Lower Wood	Ancient Woodland	195.9	15.4	10.3	10.3	<0.1	<0.1%

Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
1-21	Lower Wood	Ancient Woodland	203.4	15.4	10.3	10.3	<0.1	<0.1%
2-1	Moulsoe Wood	Ancient Woodland	84.8	14.7	9.9	9.9	<0.1	0.1%
2-2	Moulsoe Wood	Ancient Woodland	94.8	14.7	9.8	9.9	<0.1	0.1%
2-3	Moulsoe Wood	Ancient Woodland	104.8	14.6	9.8	9.9	<0.1	0.1%
2-4	Moulsoe Wood	Ancient Woodland	114.8	14.6	9.8	9.9	<0.1	0.1%
2-5	Moulsoe Wood	Ancient Woodland	124.8	14.6	9.8	9.9	<0.1	0.1%
2-6	Moulsoe Wood	Ancient Woodland	134.8	14.6	9.8	9.9	<0.1	0.1%
2-7	Moulsoe Wood	Ancient Woodland	144.8	14.6	9.8	9.8	<0.1	0.1%
2-8	Moulsoe Wood	Ancient Woodland	154.7	14.6	9.8	9.8	<0.1	0.1%
2-9	Moulsoe Wood	Ancient Woodland	164.7	14.5	9.8	9.8	<0.1	0.1%

Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
2-10	Moulsoe Wood	Ancient Woodland	174.7	14.5	9.8	9.8	<0.1	0.1%
2-11	Moulsoe Wood	Ancient Woodland	184.7	14.5	9.8	9.8	<0.1	0.1%
2-12	Moulsoe Wood	Ancient Woodland	194.7	14.5	9.8	9.8	<0.1	<0.1%
2-13	Moulsoe Wood	Ancient Woodland	203.1	14.5	9.8	9.8	<0.1	0.1%
5-1	Linford Wood	Ancient Woodland	70.8	21.9	13.2	13.3	-0.5	-1.7%
5-2	Linford Wood	Ancient Woodland	80.7	21.6	13.1	13.2	-0.5	-1.5%
5-3	Linford Wood	Ancient Woodland	90.7	21.3	13.0	13.1	0.2	0.5%
5-4	Linford Wood	Ancient Woodland	100.7	21.1	13.0	13.0	0.1	0.4%
5-5	Linford Wood	Ancient Woodland	110.6	20.9	12.9	12.9	0.1	0.3%
5-6	Linford Wood	Ancient Woodland	120.6	20.8	12.9	12.9	0.1	0.3%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
5-7	Linford Wood	Ancient Woodland	130.6	20.6	12.8	12.9	0.1	0.2%
5-8	Linford Wood	Ancient Woodland	140.6	20.5	12.8	12.8	0.1	0.2%
5-9	Linford Wood	Ancient Woodland	150.5	20.4	12.8	12.8	0.1	0.2%
5-10	Linford Wood	Ancient Woodland	160.5	20.4	12.7	12.8	0.1	0.2%
5-11	Linford Wood	Ancient Woodland	170.5	20.3	12.7	12.7	0.1	0.2%
5-12	Linford Wood	Ancient Woodland	180.5	20.2	12.7	12.7	0.1	0.2%
5-13	Linford Wood	Ancient Woodland	190.4	20.2	12.7	12.7	<0.1	0.1%
5-14	Linford Wood	Ancient Woodland	200.4	20.1	12.7	12.7	<0.1	0.1%
5-15	Linford Wood	Ancient Woodland	211.3	20.1	12.7	12.7	<0.1	0.1%
6-1	Mouthslade Spinney	Ancient Woodland	161.8	17.9	11.0	11.1	<0.1	0.1%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
6-2	Mouthslade Spinney	Ancient Woodland	171.7	17.8	11.0	11.1	<0.1	0.2%
6-3	Mouthslade Spinney	Ancient Woodland	181.7	17.8	11.0	11.0	<0.1	0.1%
6-4	Mouthslade Spinney	Ancient Woodland	191.7	17.7	10.9	11.0	<0.1	0.1%
6-5	Mouthslade Spinney	Ancient Woodland	201.7	17.6	10.9	11.0	<0.1	0.1%
7-1	Bedlam Spinney E	Ancient Woodland	4.9	32.1	15.7	16.5	0.4	1.4%
7-2	Bedlam Spinney E	Ancient Woodland	14.9	21.7	12.0	12.3	0.2	0.6%
7-3	Bedlam Spinney E	Ancient Woodland	24.9	19.0	11.0	11.2	0.1	0.4%
7-4	Bedlam Spinney E	Ancient Woodland	34.9	17.7	10.6	10.7	0.1	0.3%
7-5	Bedlam Spinney E	Ancient Woodland	44.9	17.0	10.3	10.5	0.1	0.2%
7-6	Bedlam Spinney E	Ancient Woodland	54.9	16.5	10.2	10.3	0.1	0.2%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
7-7	Bedlam Spinney E	Ancient Woodland	57.0	16.4	10.1	10.2	0.1	0.2%
8-1	Bedlam Spinney W	Ancient Woodland	4.0	28.4	14.4	15.0	0.3	1.1%
8-2	Bedlam Spinney W	Ancient Woodland	14.0	19.2	11.1	11.3	0.1	0.4%
8-3	Bedlam Spinney W	Ancient Woodland	24.0	17.3	10.4	10.6	0.1	0.2%
8-4	Bedlam Spinney W	Ancient Woodland	31.8	16.6	10.2	10.3	0.1	0.2%
9-1	Brandon's Wood	Ancient Woodland	127.7	13.5	9.0	9.0	<0.1	<0.1%
9-2	Brandon's Wood	Ancient Woodland	137.7	13.5	9.0	9.0	<0.1	<0.1%
9-3	Brandon's Wood	Ancient Woodland	147.7	13.5	9.0	9.0	<0.1	<0.1%
9-4	Brandon's Wood	Ancient Woodland	157.6	13.5	9.0	9.0	<0.1	<0.1%
9-5	Brandon's Wood	Ancient Woodland	167.6	13.4	9.0	9.0	<0.1	<0.1%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
9-6	Brandon's Wood	Ancient Woodland	177.6	13.4	9.0	9.0	<0.1	<0.1%
9-7	Brandon's Wood	Ancient Woodland	187.6	13.4	9.0	9.0	<0.1	<0.1%
9-8	Brandon's Wood	Ancient Woodland	197.6	13.4	8.9	9.0	<0.1	<0.1%
9-9	Brandon's Wood	Ancient Woodland	203.4	13.4	8.9	9.0	<0.1	<0.1%
19-1	Unnamed Wood (ID:1503134)	Ancient Woodland	39.1	13.2	8.7	8.7	<0.1	<0.1%
19-2	Unnamed Wood (ID:1503134)	Ancient Woodland	49.1	13.2	8.7	8.7	<0.1	<0.1%
19-3	Unnamed Wood (ID:1503134)	Ancient Woodland	59.1	13.1	8.7	8.7	<0.1	<0.1%
19-4	Unnamed Wood (ID:1503134)	Ancient Woodland	69.1	13.1	8.7	8.7	<0.1	<0.1%
19-5	Unnamed Wood (ID:1503134)	Ancient Woodland	79.1	13.1	8.7	8.7	<0.1	<0.1%
19-6	Unnamed Wood (ID:1503134)	Ancient Woodland	89.1	13.1	8.7	8.7	<0.1	<0.1%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
19-7	Unnamed Wood (ID:1503134)	Ancient Woodland	99.1	13.1	8.6	8.7	<0.1	<0.1%
19-8	Unnamed Wood (ID:1503134)	Ancient Woodland	109.1	13.1	8.6	8.6	<0.1	<0.1%
19-9	Unnamed Wood (ID:1503134)	Ancient Woodland	119.1	13.1	8.6	8.6	<0.1	<0.1%
19-10	Unnamed Wood (ID:1503134)	Ancient Woodland	129.1	13.0	8.6	8.6	<0.1	<0.1%
19-11	Unnamed Wood (ID:1503134)	Ancient Woodland	139.1	13.0	8.6	8.6	<0.1	<0.1%
19-12	Unnamed Wood (ID:1503134)	Ancient Woodland	143.5	13.0	8.6	8.6	<0.1	<0.1%
20-1	Linford Wood South	Ancient Woodland	56.0	23.1	14.3	14.4	<0.1	0.1%
20-2	Linford Wood South	Ancient Woodland	56.5	22.9	14.3	14.3	<0.1	0.1%
20-3	Linford Wood South	Ancient Woodland	57.0	22.7	14.2	14.2	<0.1	0.1%
20-4	Linford Wood South	Ancient Woodland	57.6	22.6	14.1	14.2	<0.1	0.1%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
20-5	Linford Wood South	Ancient Woodland	58.1	22.4	14.1	14.1	<0.1	0.1%
20-6	Linford Wood South	Ancient Woodland	58.6	22.3	14.1	14.1	<0.1	0.1%
20-7	Linford Wood South	Ancient Woodland	59.2	22.3	14.0	14.1	<0.1	0.1%
20-8	Linford Wood South	Ancient Woodland	59.7	22.2	14.0	14.0	<0.1	0.1%
20-9	Linford Wood South	Ancient Woodland	60.2	22.1	14.0	14.0	<0.1	0.1%
20-10	Linford Wood South	Ancient Woodland	60.8	22.0	13.9	14.0	<0.1	0.1%
20-11	Linford Wood South	Ancient Woodland	61.3	22.0	13.9	14.0	<0.1	0.1%
20-12	Linford Wood South	Ancient Woodland	61.8	21.9	13.9	13.9	<0.1	0.1%
20-13	Linford Wood South	Ancient Woodland	62.3	21.9	13.9	13.9	<0.1	0.1%
20-14	Linford Wood South	Ancient Woodland	62.9	21.1	13.1	13.2	<0.1	0.1%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
20-15	Linford Wood South	Ancient Woodland	63.6	21.0	13.1	13.1	<0.1	<0.1%
21-1	Stanton Wood	Ancient Woodland	41.5	23.3	14.3	14.4	<0.1	<0.1%
21-2	Stanton Wood	Ancient Woodland	51.5	22.8	14.1	14.2	<0.1	<0.1%
21-3	Stanton Wood	Ancient Woodland	61.5	22.4	14.0	14.0	<0.1	<0.1%
21-4	Stanton Wood	Ancient Woodland	71.5	22.2	13.9	13.9	<0.1	<0.1%
21-5	Stanton Wood	Ancient Woodland	81.5	22.0	13.8	13.9	<0.1	<0.1%
21-6	Stanton Wood	Ancient Woodland	88.7	21.8	13.8	13.8	<0.1	<0.1%
21-7	Stanton Wood	Ancient Woodland	87.7	21.7	13.7	13.8	<0.1	0.1%
21-8	Stanton Wood	Ancient Woodland	86.7	21.6	13.7	13.7	<0.1	0.1%
21-9	Stanton Wood	Ancient Woodland	85.7	21.5	13.7	13.7	<0.1	<0.1%



Table G-13 – Impacts on annual mean NO_x concentration (µg/m³) in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2031 without Proposed Development (µg/m ³)	2031 with Proposed Development (µg/m ³)	2031 change (µg/m ³)	2031 change relative to critical level of 30µg/m ³
21-10	Stanton Wood	Ancient Woodland	84.7	21.4	13.7	13.7	<0.1	<0.1%
21-11	Stanton Wood	Ancient Woodland	83.7	21.3	13.6	13.7	<0.1	<0.1%
21-12	Stanton Wood	Ancient Woodland	82.7	21.3	13.6	13.6	<0.1	<0.1%
21-13	Stanton Wood	Ancient Woodland	81.7	21.2	13.6	13.6	<0.1	<0.1%
21-14	Stanton Wood	Ancient Woodland	80.8	21.2	13.6	13.6	<0.1	<0.1%
21-15	Stanton Wood	Ancient Woodland	79.8	21.1	13.6	13.6	<0.1	<0.1%
21-16	Stanton Wood	Ancient Woodland	78.8	21.1	13.6	13.6	<0.1	<0.1%
21-17	Stanton Wood	Ancient Woodland	77.7	21.1	13.5	13.6	<0.1	<0.1%

Bold text indicates an exceedance of the critical level for NO_x.

Results rounded to 1 decimal place.



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
1-1	Lower Wood	Ancient Woodland	5.9	10	31.8	31.3	31.4	<0.1	0.2%	No
1-2	Lower Wood	Ancient Woodland	15.9	10	31.6	31.3	31.3	<0.1	0.1%	No
1-3	Lower Wood	Ancient Woodland	25.9	10	31.6	31.3	31.3	<0.1	0.1%	No
1-4	Lower Wood	Ancient Woodland	35.9	10	31.5	31.3	31.3	<0.1	0.1%	No
1-5	Lower Wood	Ancient Woodland	45.9	10	31.5	31.3	31.3	<0.1	0.1%	No
1-6	Lower Wood	Ancient Woodland	55.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-7	Lower Wood	Ancient Woodland	65.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-8	Lower Wood	Ancient Woodland	75.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-9	Lower Wood	Ancient Woodland	85.9	10	31.5	31.3	31.3	<0.1	<0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
1-10	Lower Wood	Ancient Woodland	95.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-11	Lower Wood	Ancient Woodland	105.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-12	Lower Wood	Ancient Woodland	115.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-13	Lower Wood	Ancient Woodland	125.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-14	Lower Wood	Ancient Woodland	135.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-15	Lower Wood	Ancient Woodland	145.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-16	Lower Wood	Ancient Woodland	155.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-17	Lower Wood	Ancient Woodland	165.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-18	Lower Wood	Ancient Woodland	175.9	10	31.5	31.3	31.3	<0.1	<0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
1-19	Lower Wood	Ancient Woodland	185.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-20	Lower Wood	Ancient Woodland	195.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-21	Lower Wood	Ancient Woodland	203.4	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-1	Moulsoe Wood	Ancient Woodland	84.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-2	Moulsoe Wood	Ancient Woodland	94.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-3	Moulsoe Wood	Ancient Woodland	104.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-4	Moulsoe Wood	Ancient Woodland	114.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-5	Moulsoe Wood	Ancient Woodland	124.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-6	Moulsoe Wood	Ancient Woodland	134.8	10	31.5	31.3	31.3	<0.1	<0.1%	No

Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
2-7	Moulsoe Wood	Ancient Woodland	144.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-8	Moulsoe Wood	Ancient Woodland	154.7	10	31.5	31.3	31.3	<0.1	0.1%	No
2-9	Moulsoe Wood	Ancient Woodland	164.7	10	31.5	31.3	31.3	<0.1	0.1%	No
2-10	Moulsoe Wood	Ancient Woodland	174.7	10	31.5	31.3	31.3	<0.1	0.1%	No
2-11	Moulsoe Wood	Ancient Woodland	184.7	10	31.5	31.3	31.3	<0.1	0.1%	No
2-12	Moulsoe Wood	Ancient Woodland	194.7	10	31.5	31.3	31.3	<0.1	0.1%	No
2-13	Moulsoe Wood	Ancient Woodland	203.1	10	31.5	31.3	31.3	<0.1	0.1%	No
5-1	Linford Wood	Ancient Woodland	70.8	10	32.1	31.5	31.5	<0.1	<0.1%	No
5-2	Linford Wood	Ancient Woodland	80.7	10	32.1	31.5	31.5	<0.1	<0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
5-3	Linford Wood	Ancient Woodland	90.7	10	32.0	31.5	31.5	<0.1	0.1%	No
5-4	Linford Wood	Ancient Woodland	100.7	10	32.0	31.5	31.5	<0.1	<0.1%	No
5-5	Linford Wood	Ancient Woodland	110.6	10	32.0	31.5	31.5	<0.1	0.1%	No
5-6	Linford Wood	Ancient Woodland	120.6	10	31.9	31.5	31.5	<0.1	<0.1%	No
5-7	Linford Wood	Ancient Woodland	130.6	10	31.9	31.5	31.5	<0.1	<0.1%	No
5-8	Linford Wood	Ancient Woodland	140.6	10	31.9	31.5	31.5	<0.1	0.1%	No
5-9	Linford Wood	Ancient Woodland	150.5	10	31.9	31.5	31.5	<0.1	<0.1%	No
5-10	Linford Wood	Ancient Woodland	160.5	10	31.9	31.5	31.5	<0.1	<0.1%	No
5-11	Linford Wood	Ancient Woodland	170.5	10	31.9	31.5	31.5	<0.1	<0.1%	No

Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
5-12	Linford Wood	Ancient Woodland	180.5	10	31.9	31.5	31.5	<0.1	<0.1%	No
5-13	Linford Wood	Ancient Woodland	190.4	10	31.9	31.5	31.5	<0.1	<0.1%	No
5-14	Linford Wood	Ancient Woodland	200.4	10	31.8	31.4	31.5	<0.1	0.1%	No
5-15	Linford Wood	Ancient Woodland	211.3	10	31.8	31.4	31.4	<0.1	<0.1%	No
6-1	Mouthslade Spinney	Ancient Woodland	161.8	10	32.5	32.1	32.2	<0.1	0.1%	No
6-2	Mouthslade Spinney	Ancient Woodland	171.7	10	32.5	32.1	32.2	<0.1	0.1%	No
6-3	Mouthslade Spinney	Ancient Woodland	181.7	10	32.5	32.1	32.1	<0.1	<0.1%	No
6-4	Mouthslade Spinney	Ancient Woodland	191.7	10	32.5	32.1	32.1	<0.1	<0.1%	No
6-5	Mouthslade Spinney	Ancient Woodland	201.7	10	32.5	32.1	32.1	<0.1	<0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
7-1	Bedlam Spinney E	Ancient Woodland	4.9	10	36.7	34.3	34.3	<0.1	0.6%	No
7-2	Bedlam Spinney E	Ancient Woodland	14.9	10	35.2	34.0	34.0	<0.1	0.3%	No
7-3	Bedlam Spinney E	Ancient Woodland	24.9	10	34.7	33.9	33.9	<0.1	0.1%	No
7-4	Bedlam Spinney E	Ancient Woodland	34.9	10	34.5	33.9	33.9	<0.1	0.2%	No
7-5	Bedlam Spinney E	Ancient Woodland	44.9	10	34.4	33.9	33.9	<0.1	0.1%	No
7-6	Bedlam Spinney E	Ancient Woodland	54.9	10	34.4	33.9	33.9	<0.1	0.1%	No
7-7	Bedlam Spinney E	Ancient Woodland	57.0	10	34.3	33.9	33.9	<0.1	0.1%	No
8-1	Bedlam Spinney W	Ancient Woodland	4.0	10	36.2	34.2	34.2	<0.1	0.5%	No
8-2	Bedlam Spinney W	Ancient Woodland	14.0	10	34.8	33.9	33.9	<0.1	0.2%	No

Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
8-3	Bedlam Spinney W	Ancient Woodland	24.0	10	34.5	33.9	33.9	<0.1	0.1%	No
8-4	Bedlam Spinney W	Ancient Woodland	31.8	10	34.4	33.9	33.9	<0.1	0.1%	No
9-1	Brandon's Wood	Ancient Woodland	127.7	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-2	Brandon's Wood	Ancient Woodland	137.7	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-3	Brandon's Wood	Ancient Woodland	147.7	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-4	Brandon's Wood	Ancient Woodland	157.6	10	30.1	29.9	29.9	<0.1	0.1%	No
9-5	Brandon's Wood	Ancient Woodland	167.6	10	30.1	29.9	29.9	<0.1	0.1%	No
9-6	Brandon's Wood	Ancient Woodland	177.6	10	30.1	29.9	29.9	<0.1	0.1%	No
9-7	Brandon's Wood	Ancient Woodland	187.6	10	30.1	29.9	29.9	<0.1	<0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
9-8	Brandon's Wood	Ancient Woodland	197.6	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-9	Brandon's Wood	Ancient Woodland	203.4	10	30.1	29.9	29.9	<0.1	<0.1%	No
19-1	Unnamed Wood (ID:1503134)	Ancient Woodland	39.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-2	Unnamed Wood (ID:1503134)	Ancient Woodland	49.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-3	Unnamed Wood (ID:1503134)	Ancient Woodland	59.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-4	Unnamed Wood (ID:1503134)	Ancient Woodland	69.1	10	34.0	33.8	33.8	<0.1	<0.1%	No

Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
19-5	Unnamed Wood (ID:1503134)	Ancient Woodland	79.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-6	Unnamed Wood (ID:1503134)	Ancient Woodland	89.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-7	Unnamed Wood (ID:1503134)	Ancient Woodland	99.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-8	Unnamed Wood (ID:1503134)	Ancient Woodland	109.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-9	Unnamed Wood (ID:1503134)	Ancient Woodland	119.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-10	Unnamed Wood	Ancient Woodland	129.1	10	34.0	33.8	33.8	<0.1	<0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
	(ID:1503134)									
19-11	Unnamed Wood (ID:1503134)	Ancient Woodland	139.1	10	34.0	33.8	33.8	<0.1	<0.1%	No
19-12	Unnamed Wood (ID:1503134)	Ancient Woodland	143.5	10	34.0	33.8	33.8	<0.1	<0.1%	No
20-1	Linford Wood South	Ancient Woodland	56.0	10	33.6	32.9	32.9	<0.1	<0.1%	No
20-2	Linford Wood South	Ancient Woodland	56.5	10	33.6	32.9	32.9	<0.1	<0.1%	No
20-3	Linford Wood South	Ancient Woodland	57.0	10	33.5	32.9	32.9	<0.1	0.1%	No
20-4	Linford Wood South	Ancient Woodland	57.6	10	33.5	32.9	32.9	<0.1	<0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
20-5	Linford Wood South	Ancient Woodland	58.1	10	33.5	32.9	32.9	<0.1	<0.1%	No
20-6	Linford Wood South	Ancient Woodland	58.6	10	33.5	32.9	32.9	<0.1	0.1%	No
20-7	Linford Wood South	Ancient Woodland	59.2	10	33.5	32.9	32.9	<0.1	<0.1%	No
20-8	Linford Wood South	Ancient Woodland	59.7	10	33.4	32.9	32.9	<0.1	<0.1%	No
20-9	Linford Wood South	Ancient Woodland	60.2	10	33.4	32.9	32.9	<0.1	<0.1%	No
20-10	Linford Wood South	Ancient Woodland	60.8	10	33.4	32.9	32.9	<0.1	<0.1%	No
20-11	Linford Wood South	Ancient Woodland	61.3	10	33.4	32.9	32.9	<0.1	0.1%	No

Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
20-12	Linford Wood South	Ancient Woodland	61.8	10	33.4	32.9	32.9	<0.1	0.1%	No
20-13	Linford Wood South	Ancient Woodland	62.3	10	33.4	32.9	32.9	<0.1	<0.1%	No
20-14	Linford Wood South	Ancient Woodland	62.9	10	32.0	31.5	31.5	<0.1	<0.1%	No
20-15	Linford Wood South	Ancient Woodland	63.6	10	32.0	31.5	31.5	<0.1	<0.1%	No
21-1	Stanton Wood	Ancient Woodland	41.5	10	33.6	32.9	32.9	<0.1	<0.1%	No
21-2	Stanton Wood	Ancient Woodland	51.5	10	33.5	32.9	32.9	<0.1	<0.1%	No
21-3	Stanton Wood	Ancient Woodland	61.5	10	33.5	32.9	32.9	<0.1	<0.1%	No
21-4	Stanton Wood	Ancient Woodland	71.5	10	33.4	32.9	32.9	<0.1	0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
21-5	Stanton Wood	Ancient Woodland	81.5	10	33.4	32.9	32.9	<0.1	<0.1%	No
21-6	Stanton Wood	Ancient Woodland	88.7	10	33.4	32.9	32.9	<0.1	0.1%	No
21-7	Stanton Wood	Ancient Woodland	87.7	10	33.4	32.9	32.9	<0.1	<0.1%	No
21-8	Stanton Wood	Ancient Woodland	86.7	10	33.3	32.9	32.9	<0.1	<0.1%	No
21-9	Stanton Wood	Ancient Woodland	85.7	10	33.3	32.9	32.9	<0.1	<0.1%	No
21-10	Stanton Wood	Ancient Woodland	84.7	10	33.3	32.9	32.9	<0.1	<0.1%	No
21-11	Stanton Wood	Ancient Woodland	83.7	10	33.3	32.9	32.9	<0.1	<0.1%	No
21-12	Stanton Wood	Ancient Woodland	82.7	10	33.3	32.9	32.9	<0.1	<0.1%	No
21-13	Stanton Wood	Ancient Woodland	81.7	10	33.3	32.9	32.9	<0.1	<0.1%	No



Table G-14 – Impacts on nitrogen deposition in 2031

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2031 without Proposed Development (kg N/ha/yr)	2031 with Proposed Development (kg N/ha/yr)	2031 change (kg N/ha/yr)	2031 change relative to lower critical load	2031 change >0.4kg N/ha/yr
21-14	Stanton Wood	Ancient Woodland	80.8	10	33.3	32.9	32.9	<0.1	<0.1%	No
21-15	Stanton Wood	Ancient Woodland	79.8	10	33.3	32.9	32.9	<0.1	<0.1%	No
21-16	Stanton Wood	Ancient Woodland	78.8	10	33.3	32.9	32.9	<0.1	0.1%	No
21-17	Stanton Wood	Ancient Woodland	77.7	10	33.3	32.9	32.9	<0.1	0.1%	No



Table G-15 – Impacts on annual mean NO_x concentration (µg/m³) in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2048 without Proposed Development (µg/m ³)	2048 with Proposed Development (µg/m ³)	2048 change (µg/m ³)	2048 change relative to critical level of 30µg/m ³
1-1	Lower Wood	Ancient Woodland	5.9	17.3	11.4	11.9	0.3	0.9%
1-2	Lower Wood	Ancient Woodland	15.9	16.2	10.8	11.0	0.1	0.4%
1-3	Lower Wood	Ancient Woodland	25.9	15.8	10.7	10.8	0.1	0.3%
1-4	Lower Wood	Ancient Woodland	35.9	15.7	10.6	10.7	<0.1	0.2%
1-5	Lower Wood	Ancient Woodland	45.9	15.6	10.5	10.6	<0.1	0.2%
1-6	Lower Wood	Ancient Woodland	55.9	15.5	10.5	10.6	<0.1	0.1%
1-7	Lower Wood	Ancient Woodland	65.9	15.5	10.5	10.5	<0.1	0.1%
1-8	Lower Wood	Ancient Woodland	75.9	15.5	10.5	10.5	<0.1	0.1%
1-9	Lower Wood	Ancient Woodland	85.9	15.4	10.4	10.5	<0.1	0.1%
1-10	Lower Wood	Ancient Woodland	95.9	15.4	10.4	10.5	<0.1	0.1%



Table G-15 – Impacts on annual mean NO_x concentration (µg/m³) in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2048 without Proposed Development (µg/m ³)	2048 with Proposed Development (µg/m ³)	2048 change (µg/m ³)	2048 change relative to critical level of 30µg/m ³
1-11	Lower Wood	Ancient Woodland	105.9	15.4	10.4	10.5	<0.1	0.1%
1-12	Lower Wood	Ancient Woodland	115.9	15.4	10.4	10.5	<0.1	0.1%
1-13	Lower Wood	Ancient Woodland	125.9	15.4	10.4	10.5	<0.1	0.1%
1-14	Lower Wood	Ancient Woodland	135.9	15.4	10.4	10.5	<0.1	0.1%
1-15	Lower Wood	Ancient Woodland	145.9	15.4	10.4	10.4	<0.1	0.1%
1-16	Lower Wood	Ancient Woodland	155.9	15.4	10.4	10.4	<0.1	0.1%
1-17	Lower Wood	Ancient Woodland	165.9	15.4	10.4	10.4	<0.1	0.1%
1-18	Lower Wood	Ancient Woodland	175.9	15.4	10.4	10.4	<0.1	<0.1%
1-19	Lower Wood	Ancient Woodland	185.9	15.4	10.4	10.4	<0.1	<0.1%
1-20	Lower Wood	Ancient Woodland	195.9	15.4	10.4	10.4	<0.1	<0.1%

Table G-15 – Impacts on annual mean NO_x concentration (µg/m³) in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2048 without Proposed Development (µg/m ³)	2048 with Proposed Development (µg/m ³)	2048 change (µg/m ³)	2048 change relative to critical level of 30µg/m ³
1-21	Lower Wood	Ancient Woodland	203.4	15.4	10.4	10.4	<0.1	0.0%
2-1	Moulsoe Wood	Ancient Woodland	84.8	14.7	10.0	10.1	0.1	0.2%
2-2	Moulsoe Wood	Ancient Woodland	94.8	14.7	10.0	10.1	0.1	0.2%
2-3	Moulsoe Wood	Ancient Woodland	104.8	14.6	10.0	10.1	<0.1	0.1%
2-4	Moulsoe Wood	Ancient Woodland	114.8	14.6	10.0	10.1	<0.1	0.1%
2-5	Moulsoe Wood	Ancient Woodland	124.8	14.6	10.0	10.0	<0.1	0.1%
2-6	Moulsoe Wood	Ancient Woodland	134.8	14.6	10.0	10.0	<0.1	0.1%
2-7	Moulsoe Wood	Ancient Woodland	144.8	14.6	10.0	10.0	<0.1	0.1%
2-8	Moulsoe Wood	Ancient Woodland	154.7	14.6	9.9	10.0	<0.1	0.1%
2-9	Moulsoe Wood	Ancient Woodland	164.7	14.5	9.9	10.0	<0.1	0.1%

Table G-15 – Impacts on annual mean NO_x concentration (µg/m³) in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2048 without Proposed Development (µg/m ³)	2048 with Proposed Development (µg/m ³)	2048 change (µg/m ³)	2048 change relative to critical level of 30µg/m ³
2-10	Moulsoe Wood	Ancient Woodland	174.7	14.5	9.9	10.0	<0.1	0.1%
2-11	Moulsoe Wood	Ancient Woodland	184.7	14.5	9.9	10.0	<0.1	0.1%
2-12	Moulsoe Wood	Ancient Woodland	194.7	14.5	9.9	10.0	<0.1	0.1%
2-13	Moulsoe Wood	Ancient Woodland	203.1	14.5	9.9	10.0	<0.1	0.1%
4-1	Downs Barn Wood	Ancient Woodland	52.1	23.1	14.6	14.6	<0.1	<0.1%
4-2	Downs Barn Wood	Ancient Woodland	62.1	22.8	14.5	14.5	<0.1	0.1%
4-3	Downs Barn Wood	Ancient Woodland	72.1	22.6	14.4	14.4	<0.1	0.1%
4-4	Downs Barn Wood	Ancient Woodland	82.0	22.4	14.3	14.3	<0.1	<0.1%
4-5	Downs Barn Wood	Ancient Woodland	91.5	22.3	14.2	14.3	<0.1	<0.1%
4-6	Downs Barn Wood	Ancient Woodland	91.8	22.1	14.2	14.2	<0.1	<0.1%



Table G-15 – Impacts on annual mean NO_x concentration (µg/m³) in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2048 without Proposed Development (µg/m ³)	2048 with Proposed Development (µg/m ³)	2048 change (µg/m ³)	2048 change relative to critical level of 30µg/m ³
4-7	Downs Barn Wood	Ancient Woodland	92.1	22.1	14.2	14.2	<0.1	0.0%
6-1	Mouthslade Spinney	Ancient Woodland	161.8	17.9	11.2	11.3	0.1	0.3%
6-2	Mouthslade Spinney	Ancient Woodland	171.7	17.8	11.1	11.3	0.1	0.2%
6-3	Mouthslade Spinney	Ancient Woodland	181.7	17.8	11.1	11.2	0.1	0.2%
6-4	Mouthslade Spinney	Ancient Woodland	191.7	17.7	11.1	11.2	0.1	0.2%
6-5	Mouthslade Spinney	Ancient Woodland	201.7	17.6	11.1	11.2	0.1	0.2%
7-1	Bedlam Spinney E	Ancient Woodland	4.9	32.1	17.0	17.4	0.3	0.8%
7-2	Bedlam Spinney E	Ancient Woodland	14.9	21.7	12.6	12.8	0.1	0.4%
7-3	Bedlam Spinney E	Ancient Woodland	24.9	19.0	11.4	11.6	0.1	0.3%
7-4	Bedlam Spinney E	Ancient Woodland	34.9	17.7	10.9	11.0	0.1	0.2%



Table G-15 – Impacts on annual mean NO_x concentration (µg/m³) in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2048 without Proposed Development (µg/m ³)	2048 with Proposed Development (µg/m ³)	2048 change (µg/m ³)	2048 change relative to critical level of 30µg/m ³
7-5	Bedlam Spinney E	Ancient Woodland	44.9	17.0	10.6	10.7	<0.1	0.1%
7-6	Bedlam Spinney E	Ancient Woodland	54.9	16.5	10.4	10.5	<0.1	0.1%
7-7	Bedlam Spinney E	Ancient Woodland	57.0	16.4	10.4	10.4	<0.1	0.1%
8-1	Bedlam Spinney W	Ancient Woodland	4.0	28.4	15.4	15.8	0.2	0.7%
8-2	Bedlam Spinney W	Ancient Woodland	14.0	19.2	11.5	11.7	0.1	0.2%
8-3	Bedlam Spinney W	Ancient Woodland	24.0	17.3	10.7	10.8	0.1	0.2%
8-4	Bedlam Spinney W	Ancient Woodland	31.8	16.6	10.4	10.5	<0.1	0.1%
9-1	Brandon's Wood	Ancient Woodland	127.7	13.5	9.1	9.1	<0.1	<0.1%
9-2	Brandon's Wood	Ancient Woodland	137.7	13.5	9.1	9.1	<0.1	<0.1%
9-3	Brandon's Wood	Ancient Woodland	147.7	13.5	9.1	9.1	<0.1	<0.1%



Table G-15 – Impacts on annual mean NO_x concentration (µg/m³) in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	2019 Base year (µg/m ³)	2048 without Proposed Development (µg/m ³)	2048 with Proposed Development (µg/m ³)	2048 change (µg/m ³)	2048 change relative to critical level of 30µg/m ³
9-4	Brandon's Wood	Ancient Woodland	157.6	13.5	9.1	9.1	<0.1	<0.1%
9-5	Brandon's Wood	Ancient Woodland	167.6	13.4	9.1	9.1	<0.1	<0.1%
9-6	Brandon's Wood	Ancient Woodland	177.6	13.4	9.1	9.1	<0.1	<0.1%
9-7	Brandon's Wood	Ancient Woodland	187.6	13.4	9.1	9.1	<0.1	<0.1%
9-8	Brandon's Wood	Ancient Woodland	197.6	13.4	9.0	9.1	<0.1	<0.1%
9-9	Brandon's Wood	Ancient Woodland	203.4	13.4	9.0	9.1	<0.1	<0.1%

Bold text indicates an exceedance of the critical level for NO_x.

Results rounded to 1 decimal place.



Table G-16 – Impacts on nitrogen deposition in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2048 without Proposed Development (kg N/ha/yr)	2048 with Proposed Development (kg N/ha/yr)	2048 change (kg N/ha/yr)	2048 change relative to lower critical load	2048 change >0.4kg N/ha/yr
1-1	Lower Wood	Ancient Woodland	5.9	10	31.8	31.4	31.4	<0.1	0.4%	No
1-2	Lower Wood	Ancient Woodland	15.9	10	31.6	31.3	31.3	<0.1	0.2%	No
1-3	Lower Wood	Ancient Woodland	25.9	10	31.6	31.3	31.3	<0.1	0.1%	No
1-4	Lower Wood	Ancient Woodland	35.9	10	31.5	31.3	31.3	<0.1	0.1%	No
1-5	Lower Wood	Ancient Woodland	45.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-6	Lower Wood	Ancient Woodland	55.9	10	31.5	31.3	31.3	<0.1	0.1%	No
1-7	Lower Wood	Ancient Woodland	65.9	10	31.5	31.3	31.3	<0.1	0.1%	No
1-8	Lower Wood	Ancient Woodland	75.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-9	Lower Wood	Ancient Woodland	85.9	10	31.5	31.3	31.3	<0.1	<0.1%	No



Table G-16 – Impacts on nitrogen deposition in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2048 without Proposed Development (kg N/ha/yr)	2048 with Proposed Development (kg N/ha/yr)	2048 change (kg N/ha/yr)	2048 change relative to lower critical load	2048 change >0.4kg N/ha/yr
1-10	Lower Wood	Ancient Woodland	95.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-11	Lower Wood	Ancient Woodland	105.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-12	Lower Wood	Ancient Woodland	115.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-13	Lower Wood	Ancient Woodland	125.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-14	Lower Wood	Ancient Woodland	135.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-15	Lower Wood	Ancient Woodland	145.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-16	Lower Wood	Ancient Woodland	155.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-17	Lower Wood	Ancient Woodland	165.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-18	Lower Wood	Ancient Woodland	175.9	10	31.5	31.3	31.3	<0.1	<0.1%	No



Table G-16 – Impacts on nitrogen deposition in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2048 without Proposed Development (kg N/ha/yr)	2048 with Proposed Development (kg N/ha/yr)	2048 change (kg N/ha/yr)	2048 change relative to lower critical load	2048 change >0.4kg N/ha/yr
1-19	Lower Wood	Ancient Woodland	185.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-20	Lower Wood	Ancient Woodland	195.9	10	31.5	31.3	31.3	<0.1	<0.1%	No
1-21	Lower Wood	Ancient Woodland	203.4	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-1	Moulsoe Wood	Ancient Woodland	84.8	10	31.5	31.3	31.3	<0.1	0.1%	No
2-2	Moulsoe Wood	Ancient Woodland	94.8	10	31.5	31.3	31.3	<0.1	0.1%	No
2-3	Moulsoe Wood	Ancient Woodland	104.8	10	31.5	31.3	31.3	<0.1	0.1%	No
2-4	Moulsoe Wood	Ancient Woodland	114.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-5	Moulsoe Wood	Ancient Woodland	124.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-6	Moulsoe Wood	Ancient Woodland	134.8	10	31.5	31.3	31.3	<0.1	<0.1%	No



Table G-16 – Impacts on nitrogen deposition in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2048 without Proposed Development (kg N/ha/yr)	2048 with Proposed Development (kg N/ha/yr)	2048 change (kg N/ha/yr)	2048 change relative to lower critical load	2048 change >0.4kg N/ha/yr
2-7	Moulsoe Wood	Ancient Woodland	144.8	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-8	Moulsoe Wood	Ancient Woodland	154.7	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-9	Moulsoe Wood	Ancient Woodland	164.7	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-10	Moulsoe Wood	Ancient Woodland	174.7	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-11	Moulsoe Wood	Ancient Woodland	184.7	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-12	Moulsoe Wood	Ancient Woodland	194.7	10	31.5	31.3	31.3	<0.1	<0.1%	No
2-13	Moulsoe Wood	Ancient Woodland	203.1	10	31.5	31.3	31.3	<0.1	0.1%	No
4-1	Downs Barn Wood	Ancient Woodland	52.1	10	32.8	32.2	32.2	<0.1	<0.1%	No
4-2	Downs Barn Wood	Ancient Woodland	62.1	10	32.8	32.2	32.2	<0.1	<0.1%	No



Table G-16 – Impacts on nitrogen deposition in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2048 without Proposed Development (kg N/ha/yr)	2048 with Proposed Development (kg N/ha/yr)	2048 change (kg N/ha/yr)	2048 change relative to lower critical load	2048 change >0.4kg N/ha/yr
4-3	Downs Barn Wood	Ancient Woodland	72.1	10	32.7	32.2	32.2	<0.1	<0.1%	No
4-4	Downs Barn Wood	Ancient Woodland	82.0	10	32.7	32.2	32.2	<0.1	<0.1%	No
4-5	Downs Barn Wood	Ancient Woodland	91.5	10	32.7	32.2	32.2	<0.1	<0.1%	No
4-6	Downs Barn Wood	Ancient Woodland	91.8	10	32.7	32.2	32.2	<0.1	<0.1%	No
4-7	Downs Barn Wood	Ancient Woodland	92.1	10	32.6	32.2	32.2	<0.1	<0.1%	No
6-1	Mouthslade Spinney	Ancient Woodland	161.8	10	32.5	32.2	32.2	<0.1	0.2%	No
6-2	Mouthslade Spinney	Ancient Woodland	171.7	10	32.5	32.2	32.2	<0.1	0.1%	No
6-3	Mouthslade Spinney	Ancient Woodland	181.7	10	32.5	32.2	32.2	<0.1	0.1%	No
6-4	Mouthslade Spinney	Ancient Woodland	191.7	10	32.5	32.2	32.2	<0.1	0.1%	No



Table G-16 – Impacts on nitrogen deposition in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2048 without Proposed Development (kg N/ha/yr)	2048 with Proposed Development (kg N/ha/yr)	2048 change (kg N/ha/yr)	2048 change relative to lower critical load	2048 change >0.4kg N/ha/yr
6-5	Mouthslade Spinney	Ancient Woodland	201.7	10	32.5	32.2	32.2	<0.1	0.0%	No
7-1	Bedlam Spinney E	Ancient Woodland	4.9	10	36.7	34.4	34.4	<0.1	0.3%	No
7-2	Bedlam Spinney E	Ancient Woodland	14.9	10	35.2	34.0	34.1	<0.1	0.2%	No
7-3	Bedlam Spinney E	Ancient Woodland	24.9	10	34.7	34.0	34.0	<0.1	0.1%	No
7-4	Bedlam Spinney E	Ancient Woodland	34.9	10	34.5	33.9	33.9	<0.1	0.1%	No
7-5	Bedlam Spinney E	Ancient Woodland	44.9	10	34.4	33.9	33.9	<0.1	<0.1%	No
7-6	Bedlam Spinney E	Ancient Woodland	54.9	10	34.4	33.9	33.9	<0.1	0.1%	No
7-7	Bedlam Spinney E	Ancient Woodland	57.0	10	34.3	33.9	33.9	<0.1	<0.1%	No
8-1	Bedlam Spinney W	Ancient Woodland	4.0	10	36.2	34.3	34.3	<0.1	0.3%	No



Table G-16 – Impacts on nitrogen deposition in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2048 without Proposed Development (kg N/ha/yr)	2048 with Proposed Development (kg N/ha/yr)	2048 change (kg N/ha/yr)	2048 change relative to lower critical load	2048 change >0.4kg N/ha/yr
8-2	Bedlam Spinney W	Ancient Woodland	14.0	10	34.8	34.0	34.0	<0.1	0.1%	No
8-3	Bedlam Spinney W	Ancient Woodland	24.0	10	34.5	33.9	33.9	<0.1	0.1%	No
8-4	Bedlam Spinney W	Ancient Woodland	31.8	10	34.4	33.9	33.9	<0.1	0.1%	No
9-1	Brandon's Wood	Ancient Woodland	127.7	10	30.1	29.9	29.9	<0.1	0.1%	No
9-2	Brandon's Wood	Ancient Woodland	137.7	10	30.1	29.9	29.9	<0.1	0.1%	No
9-3	Brandon's Wood	Ancient Woodland	147.7	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-4	Brandon's Wood	Ancient Woodland	157.6	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-5	Brandon's Wood	Ancient Woodland	167.6	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-6	Brandon's Wood	Ancient Woodland	177.6	10	30.1	29.9	29.9	<0.1	<0.1%	No



Table G-16 – Impacts on nitrogen deposition in 2048

Transect Receptor	Site	Designation	Distance from nearest model link (m)	Lower critical load (kg N/ha/yr)	2019 Base year (kg N/ha/yr)	2048 without Proposed Development (kg N/ha/yr)	2048 with Proposed Development (kg N/ha/yr)	2048 change (kg N/ha/yr)	2048 change relative to lower critical load	2048 change >0.4kg N/ha/yr
9-7	Brandon's Wood	Ancient Woodland	187.6	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-8	Brandon's Wood	Ancient Woodland	197.6	10	30.1	29.9	29.9	<0.1	<0.1%	No
9-9	Brandon's Wood	Ancient Woodland	203.4	10	30.1	29.9	29.9	<0.1	<0.1%	No

Appendix G7

Anglian Water Odour Assessment



Title **Odour Assessment Report**
Site **COTTON VALLEY WRC**
Purpose of report **Milton Keynes East Development**

Project Personnel and Contacts

ROLE	NAME	LOCATION
Client	Berkeley Group (Works Manager)	Cotton Valley WRC MK15 9PA
Author	Omid Shafibeik (Senior Modeller)	Thorpe Wood House, Peterborough, PE3 6WT
Checked by	Richard Lyon (Senior pre-development Engineer)	Thorpe Wood House, Peterborough, PE3 6WT

Version Control

VERSION	DATE	BY	AMENDMENT	REASON
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1 Executive summary

Anglian Water was commissioned by Berkeley Group Ltd to undertake an odour dispersion modelling assessment of the emissions associated with Cotton Valley Water Recycling Centre (WRC). The purpose of this assessment was to appraise the potential for odour impacts due to emissions from the Cotton Valley WRC across the proposed Milton Keynes East (MKE) development site.

A desktop odour impact assessment using AERMOD (9.9.0) was undertaken to determine the odour exposure levels across the areas surrounding the WRC.

The modelling methods used are based on assessment techniques that are presented within guidance published by the Environment Agency, Department of Environment, Food and Rural Affairs (DEFRA) and the Institute of Air Quality Management (IAQM).

An odour concentration of 3 Odour Units per Cubic Metre (OU_E/m^3) has been taken as the benchmark level at which nuisance and potential loss of amenity would be anticipated. This assessment criterion for the protection of public nuisance/amenity is in line with the IAQM Guidance on Assessment of Odour (version 1.1 - 2018). The guidance is for assessing odour Impact for planning purposes.

The odour emission rates used for the modelling study were mainly based on the olfactometric samples collected and analysed by Silsoe Odour Consultants in October 2013 and H&M Environmental consultants in October 2011 and 2014.

Certified processed meteorological data (2018-2020) from Bedford meteorological station, representative of Cotton Valley WRC was obtained from Atmospheric Dispersion Modelling Ltd (ADM Ltd) for the modelling study.

The atmospheric dispersion model AERMOD was used to predict the dispersion of odour from the works, utilising meteorological data and the odour sources details. A model run was completed with each year of meteorological data to determine the odour impacts from Cotton Valley WRC on the surrounding area.

The results from the modelling study indicate that no encroachment should be permitted within 488m from site centre.



The zone occupied between 488m and 620m from the site centre is only suitable for less sensitive receptors such as industrial units.

2 Introduction

Cotton Valley WRC is located to the north east of the city of Milton Keynes, West of the junction 14 of M1 motorway. The WRC coordinates are given in Figure 1. The site approximate centre point is at X= 488610 E, Y= 240727 N.



Figure 1: Cotton Valley WRC-Coordinates

The site address is as follows:

Cotton valley WRC (Site short code = COTVST)

Pinham, Milton Keynes, Buckinghamshire, MK15 9PA

Grid reference: SP88474055.

The WRC location map is provided in Figure 2.

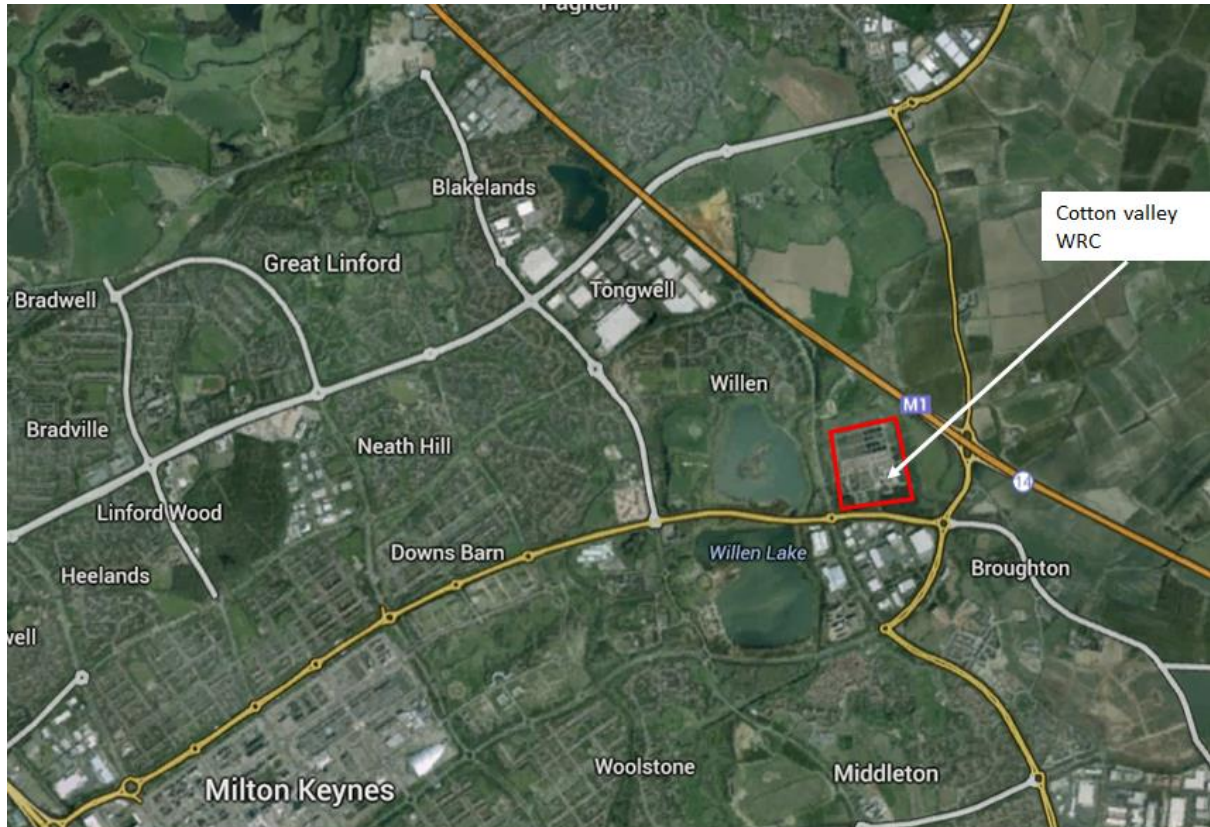


Figure 2: Cotton Valley WRC location map

2.1 The Existing Wastewater Treatment Processes

Sewage treatment is focused on converting a ‘waste’ into a product that will not harm health or environment prior to disposal or reuse. The importance of this role has long been appreciated, a fact reflected by the range of technologies and the presence of long established and frequently updated legislation governing the degree of treatment required (Gostelow 2000).

The transport and treatment of wastewater within the sewage system is well known to be a potentially odorous activity. Odour can result from a single chemical or mixture of chemicals in the atmosphere, with some odours being more unpleasant than others. Sewage odours are generally a mixture of chemicals arising from the degradation of organic matter in the waste waters. The odour is recognisable to most people who would regard it as unpleasant.

Wastewater is potentially odorous, and it can be made more odorous if anaerobic conditions (absence of oxygen) prevail. During anaerobic conditions, biological degradation of the wastewater can result in

formation of Hydrogen Sulphide (H_2S) or other sulphur containing compounds which are highly odorous.

Larger amounts of odour can be created where there are high levels of organic material in the wastewater, and also during warmer weather conditions when biological activity and evaporation rate are greater.

Cotton Valley WRC represents a significant asset and investment serving a residential population equivalent of approximately 268015. The treatment process at Cotton Valley WRC is typical of numerous WRCs in the UK involving biological treatment of crude screened, de-gritted sewage utilising Activated Sludge process.

The process includes preliminary treatment (screening, grit removal and storm separation), Primary treatment (8 Primary settlement tank), conventional activated sludge system (12 Aeration tanks and 24 Final settlement tanks).

The final effluent is discharged into a tertiary facultative lagoon before entering the River Great Ouse which in turn flows to the Wash and North Sea.

Preliminary treatment

All flows arrive at the works Archimedes screw pumping station. The flows are then lifted to the inletworks reception chamber. The flows are then passed through 6mm screens to remove the gross solids such as rag. The screenings are washed and compacted and are stored in 8yrd³ skips for removal to landfill site.

The screened sewage is then passed through an Aerated Grit Chamber for removal of high-density fine material (grit). Similarly, grit removed from the Detritor is stored in an 8yrd³ skip as disposed to landfill site.

The screened and de-gritted sewage then enters the storm separation channel which separates flows more than the works capacity (224640 m³/d) during storm conditions. The excess flows are stored in four horizontal flow storm tanks (23064 m³/d) and are returned to the head of the works when storm conditions subside.

Downstream of the preliminary treatment sewage flows into primary settlement tanks for primary treatment.

Primary treatment

Primary treatment is provided by eight horizontal flow primary Sedimentation tanks (PST) providing a total volume of 46,128 m³. Primary sedimentation is the process of separating fine solids from the wastewater by gravitational force. These solids are settled at the bottom of the PSTs and are periodically withdrawn as sludge and pumped to the imports and indigenous sludge reception tank.

Conventional activated sludge stream

The settled sewage is then passed forward to 12 aeration tanks (45,204 m³) for biological treatment which is the oxidation of pollutants by micro-organisms under controlled conditions. The aeration tank is accompanied by 24 final settlement tanks (FST) providing a total volume of 36,656 m³. A recycle rate (RAS) of half the incoming flow is also employed from the FSTs to maintain a constant mass of sludge in the aeration tank.

Surplus activated sludge (SAS) is removed from the system and pumped to the SAS holding tank.

Tertiary treatment

The final effluent from activated sludge process is discharged into a 4-cell facultative lagoon with capacity of 1,140,780 m³ for tertiary treatment. These lagoons are a type of waste stabilization pond used for biological treatment of industrial and domestic wastewater. The lagoons are typically used for final removal of settleable solids, Biochemical Oxygen Demand (BOD), pathogens, faecal coliform, and ammonia.

Sludge Treatment Stream

All imported and indigenous sludge are screened and stored in 4 sludge holding tanks. The blended sludge is then dewatered by centrifuging. The centrifuged sludge cake is then blended with imported sludge cake and stored in a Silo. The blended sludge cake is then put through the Sludge Hydrolysis Plant for advanced digestion.

Thermal hydrolysis is a process technology applied in wastewater treatment plants with anaerobic digestion. Thermal hydrolysis exposes sewage sludge or other types of wet organic waste to high temperature and pressure. The process is similar to preparing meals using steam.

The sludge from the Thermal Hydrolysis Plant (THP) is sent to three digesters where it is retained for 12 days. The digested sludge is then put through the final centrifuging process to produce advanced, dewatered sludge cake suitable for land application.

The sludge liquors from the centrifuge process are returned to the head of the works to go through the treatment system.

2.1.1 Consents and current compliance

The WRC has a consent placed on it by the Environment Agency (EA). In addition, it is also subject to the Urban Wastewater Treatment Directive (UWWTD). For a dry weather flow (DWF) of 78000 m³/day.

The current EA consent conditions for Cotton Valley WRC are:

- Suspended solids (SS) = 25 mg/l (100 upper tier).
- Biochemical Oxygen demand (BOD) = 12 mg/l (50 upper tier).
- Ammonia (NH₃) = 5 mg/l (20 upper tier).

The current UWWTD consent conditions for Cotton Valley WRC are:

- Biochemical Oxygen demand (BOD) = 25 mg/l (50 upper tier).
- Chemical Oxygen demand (COD) = 125 mg/l (250 upper tier).

If a WRC fails its upper tier consent limit, no more failures will be allowed in the following rolling year and the company will be under tighter scrutiny by the regulator.

2.2 Odour assessment and modelling

An investigative modelling study was carried out to assess odour impacts from Cotton Valley WRC on the surrounding area.

2.3 Odour Survey and emissions data

Anglian Water developed an odour dispersion model for Cotton Valley WRC in 2011. Over the years the model has been updated to include the latest developments and operating regime of the treatment plant.

The odour emission rates used for the reactors are based on actual olfactometric samples taken and analysed by specialised odour contractors in an accredited odour laboratory. Some samples were collected by H&M Environmental Ltd and some were collected by Silsoe Odours. All samples were analysed in Silsoe Odours olfactometry laboratory. Some odour emissions used are based on hydrogen sulphide measured from various channels at the WRC.

Olfactometry is a sensory measurements that employs human nose as the odour detector and hence relate to the effect of odours as experienced by humans. The most common sensory measurement is threshold olfactometry which measures the odour concentration in terms of dilution required to reduce an odorous compound until its threshold concentration.

The purpose of this emissions data is to support conclusions to be drawn on prevailing odour risk and to provide source data for the odour dispersion modelling.

The odour emission rates used in the model are given in Table 3.

3 Atmospheric Dispersion Modelling

Atmospheric dispersion modelling is the mathematical simulation of how air pollutants disperse in ambient atmosphere. It is solved by computer programmes that use mathematical equations and algorithms which simulate the pollutants dispersion. The dispersion models are used to estimate or to predict the downwind concentration of air pollutants emitted from sources such as wastewater treatment plants, industrial plants, and vehicular traffic.

Atmospheric dispersion modelling is a well-documented and recognised technique to predict the dispersion of malodours. Modelling was undertaken using the AERMOD computer programme (release version 9.9.0).

AERMOD is recognised by the Environment Agency, UK Met Office, and the US Environmental Protection Agency. AERMOD uses meteorological data, terrain data and emission data as input to predict the dispersion of odours.

3.1 Modelling Method

Six steps were followed in the modelling of odour dispersed from Cotton Valley WRC.

1. Certified pre-processed meteorological data was purchased from an independent source (ADM Ltd) for the WRC.
2. Terrain data was processed for use in the model.
3. Source emission data used were based on actual WRC olfactometric samples taken and analysed in specialised laboratory over the past years.
4. The processed Met data, process units, sources emission data were all inputted into the AERMOD model.
5. The AERMOD model was compiled and run.
6. Results from AERMOD were processed by the graphical post-processor. This gives a graphical representation of the odour dispersal on a map of the affected area. These are presented in Section 4 of this report.

Graphical representations of the resultant odour dispersal models over a map of Cotton Valley WRC are presented in Section 4.

3.2 Meteorological Data

Meteorology is fundamental for the dispersion of pollutants because it is the primary factor determining the diluting effect of the atmosphere. It is extremely important that the correct meteorological data is used for the modelling study.

Certified meteorological data (2018-2020) from Bedford meteorological station representative of Cotton Valley WRC was purchased from ADM Ltd for the modelling study. ADM Ltd are an independent, accredited source that provide a range of services to industry, developers, consultancies, and government organisations. These services cover the full spectrum of air quality and odour, project management and provision of dispersion modelling software together with terrain and meteorological data.

The certificate of met data from ADM Ltd is provided in Appendix A.

AERMOD requires the input of data that include hourly averaged values for wind speed and direction, cloud cover, ambient temperature, solar radiation, the amount of atmospheric turbulence, the height of mixing layer and other parameters.

Longitude and latitude of both Cotton Valley WRC and of the meteorological station are given in Table 1.

Table 1: Longitude and latitude of WRC and Meteorological Station.

Location	Latitude	Longitude
Cotton Valley WRC	52.058N	0.709W
Bedford Met Station	51.55N	0.70E

Wind roses from Bedford station for years 2018-2020 are presented in figures 3 to 5.

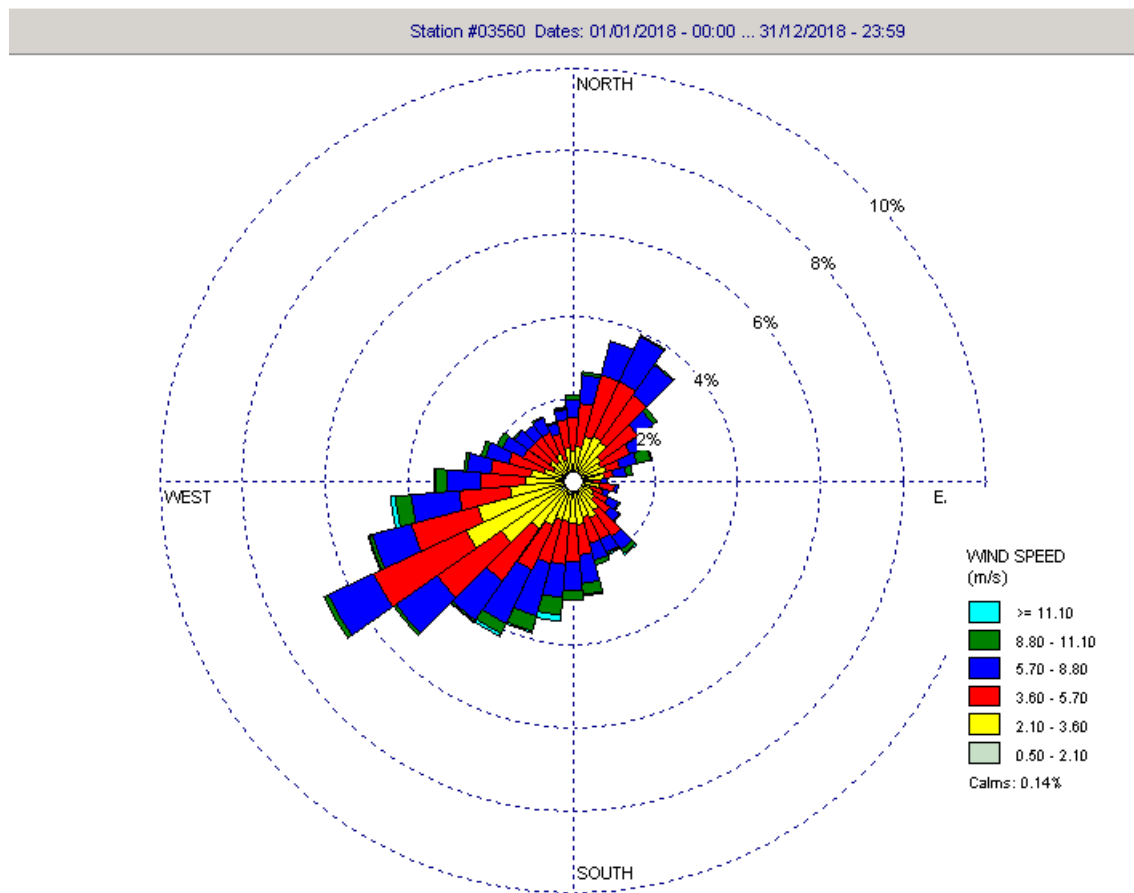


Figure 3: 2018 wind rose for Bedford Meteorological Station

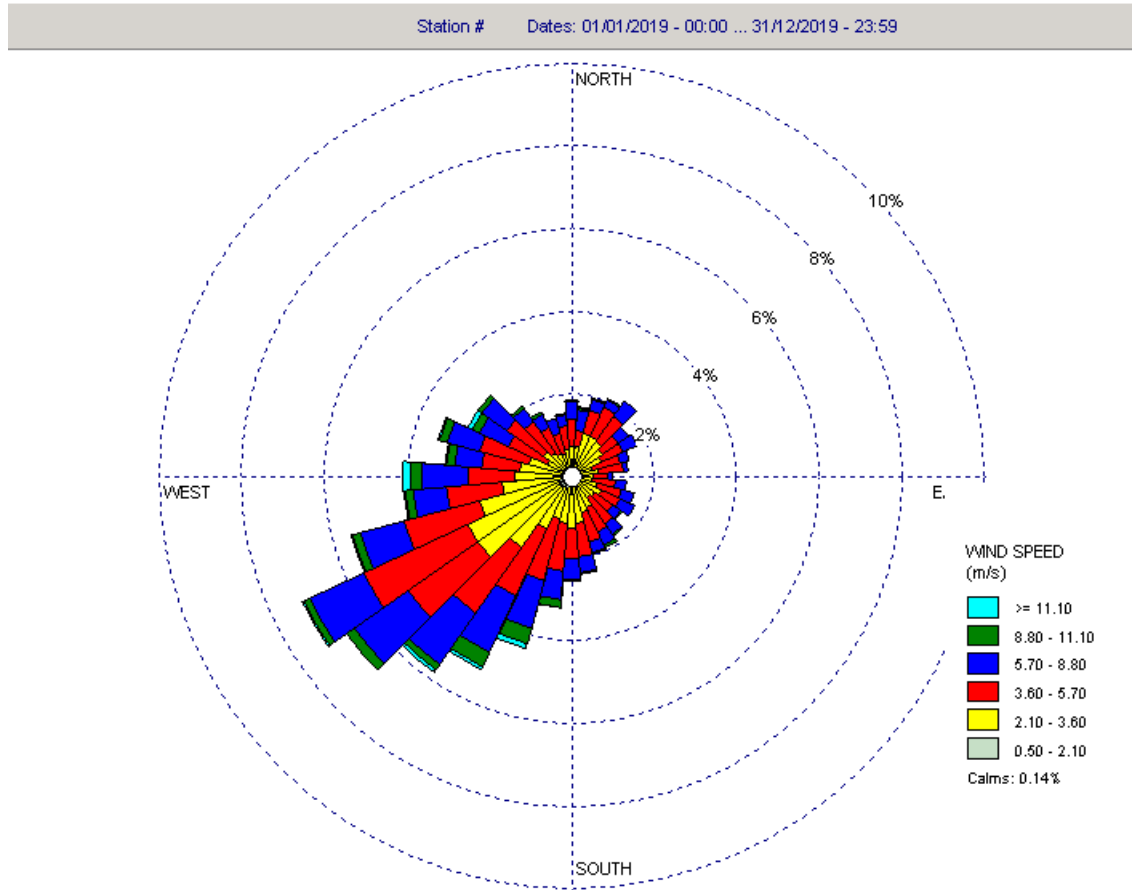


Figure 4: 2019 wind rose for Bedford Meteorological Station

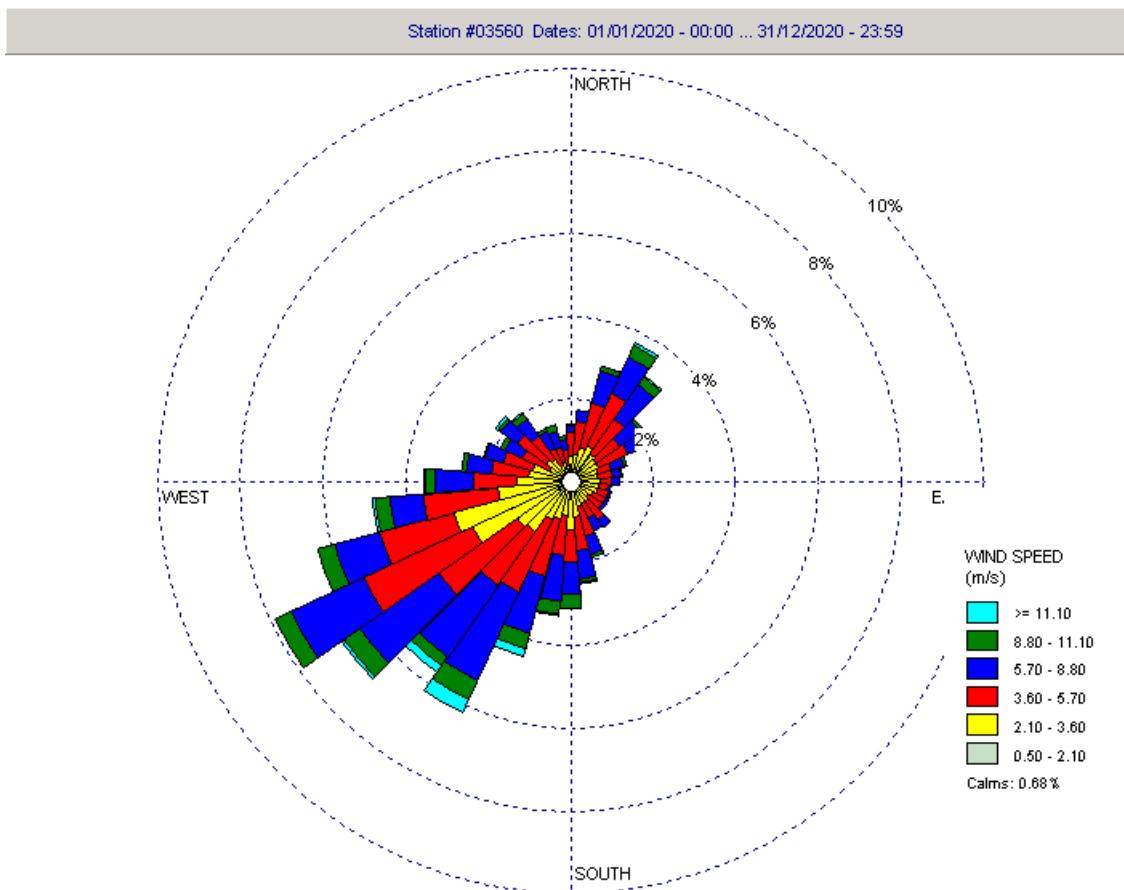


Figure 5: 2020 wind rose for Bedford Meteorological Station

The wind roses indicate the frequency of occurrence of wind from different directions for the number of wind speed ranges.

These wind roses indicate that the prevailing wind direction is blowing from a south westerly direction directing the odours towards a north easterly direction for majority of the time.

During calm days with no wind and low temperatures dispersion is very poor and odours tend to concentrate close to the source.

3.3 AERMOD

This section details the control options; source inputs and receptor networks used in the models.

Gaussian plume air dispersion model: AERMOD version 9.9.0 was used for the modelling work. The AERMOD atmospheric dispersion modelling system is a steady-state plume model that incorporates

air dispersion based on planetary boundary layer turbulence structure and scaling concept, including treatment of both surface and elevated sources, and both simple and complex terrain.

3.3.1 Control Options

The key parameters for the control options of the model are detailed in Table 2 below. The values for dispersion options and averaging time are standard defaults. The rural coefficient is applicable to this location.

Table 2: Control Option Parameters

SETTING	VALUE
Dispersion Options	Regulatory Default
Dispersion Coefficient	Rural
Pollutant Averaging time	1 hr
Flagpole Receptors	zero

3.3.2 Sources and Emissions Input

The location of the different areas that contain the odour sources is shown in Figures 6. This figure also includes the location of some tanks and structures that are no longer in use.

Figure 7 shows the location of odour sources at the Inletworks (preliminary treatment).

Figure 8 shows the location of odour sources at primary settlement tanks (primary treatment), storm tanks (storm treatment) and activated sludge plant area (biological treatment).

Figure 9 shows the location of odour sources at sludge handling and treatment area.

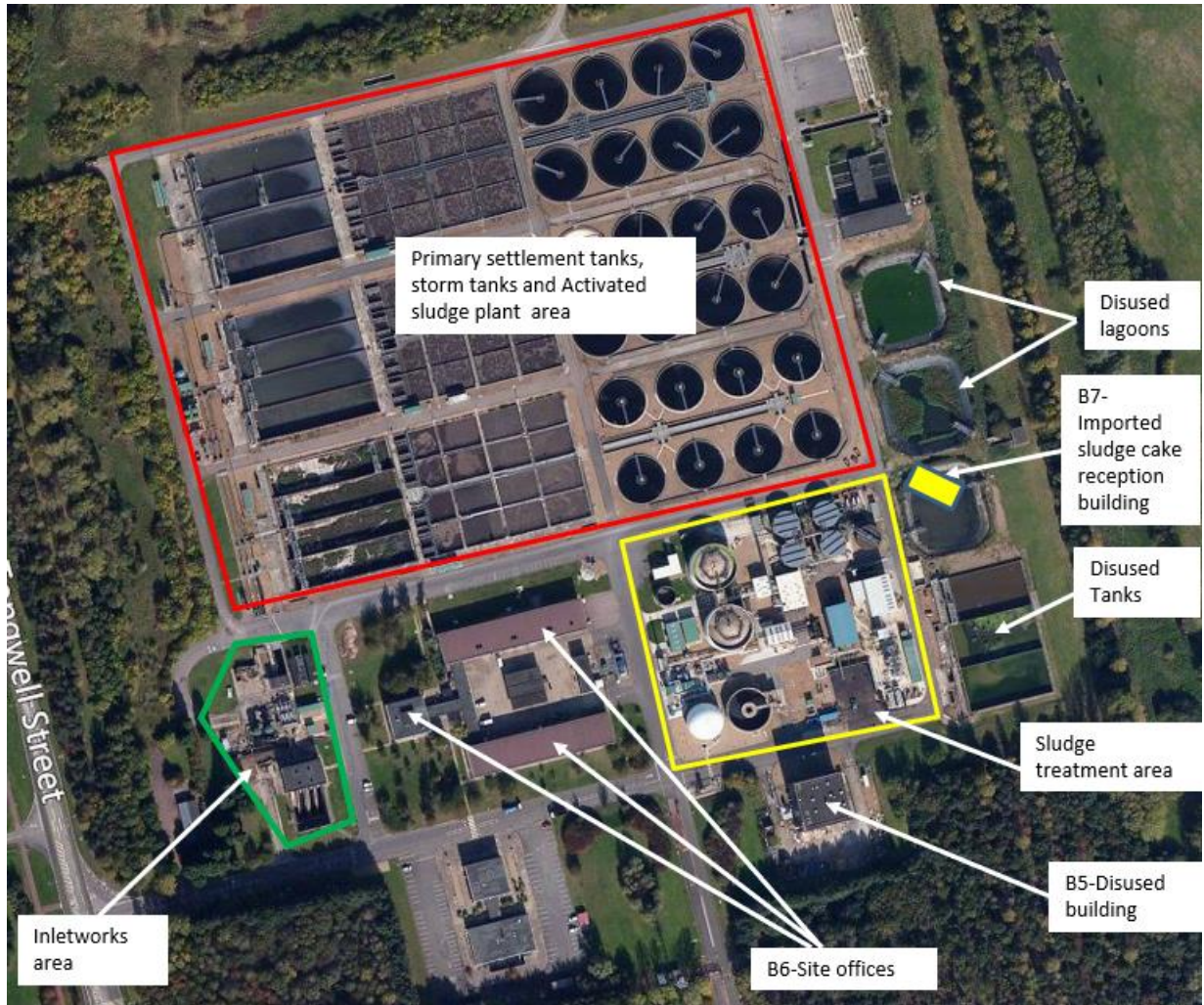


Figure 6: Cotton Valley WRC – Location of the odour sources

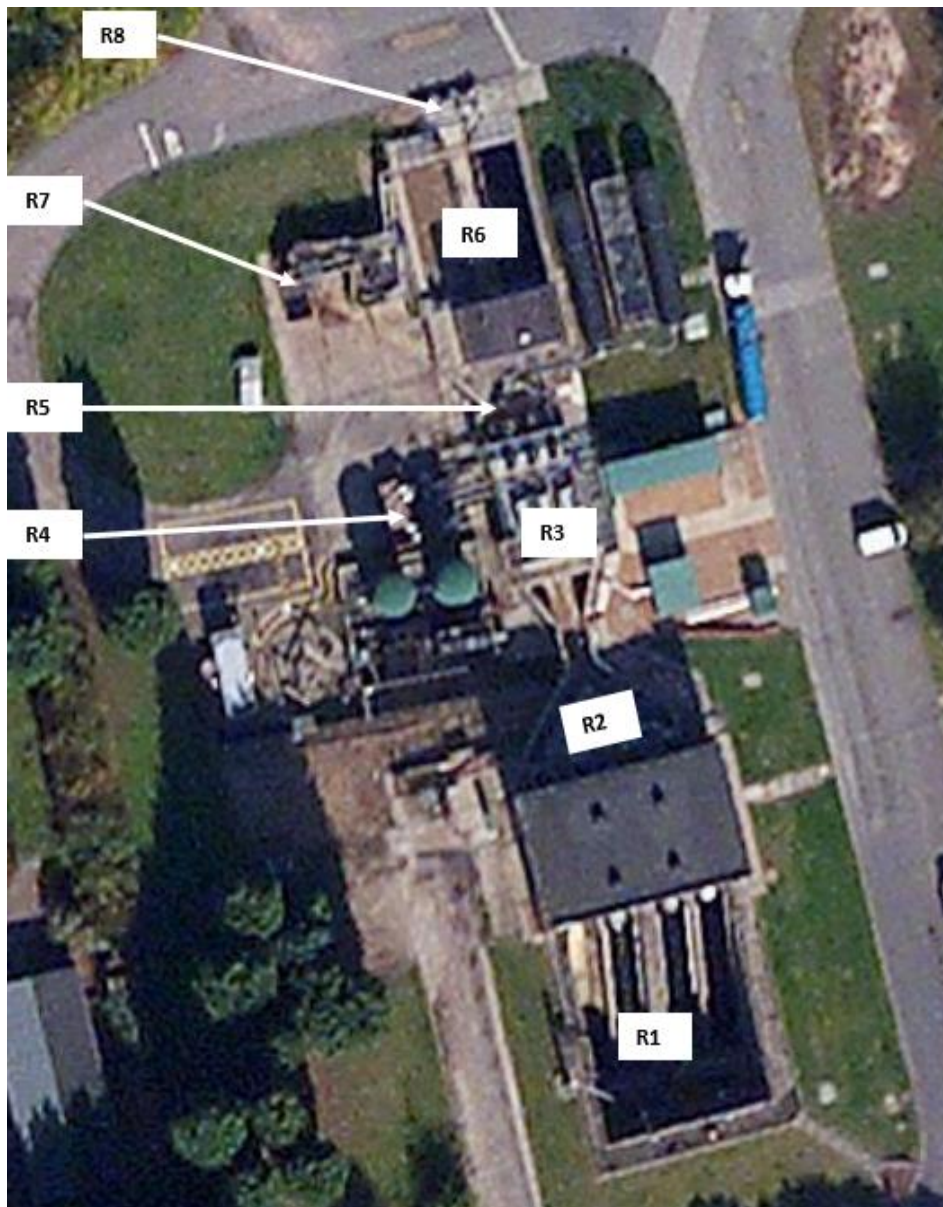


Figure 7: Cotton Valley WRC – Inletworks area odour sources



Figure 8: Cotton Valley WRC – Primary Settlement tanks, Storm Tanks & Activated Sludge Plant odour sources.

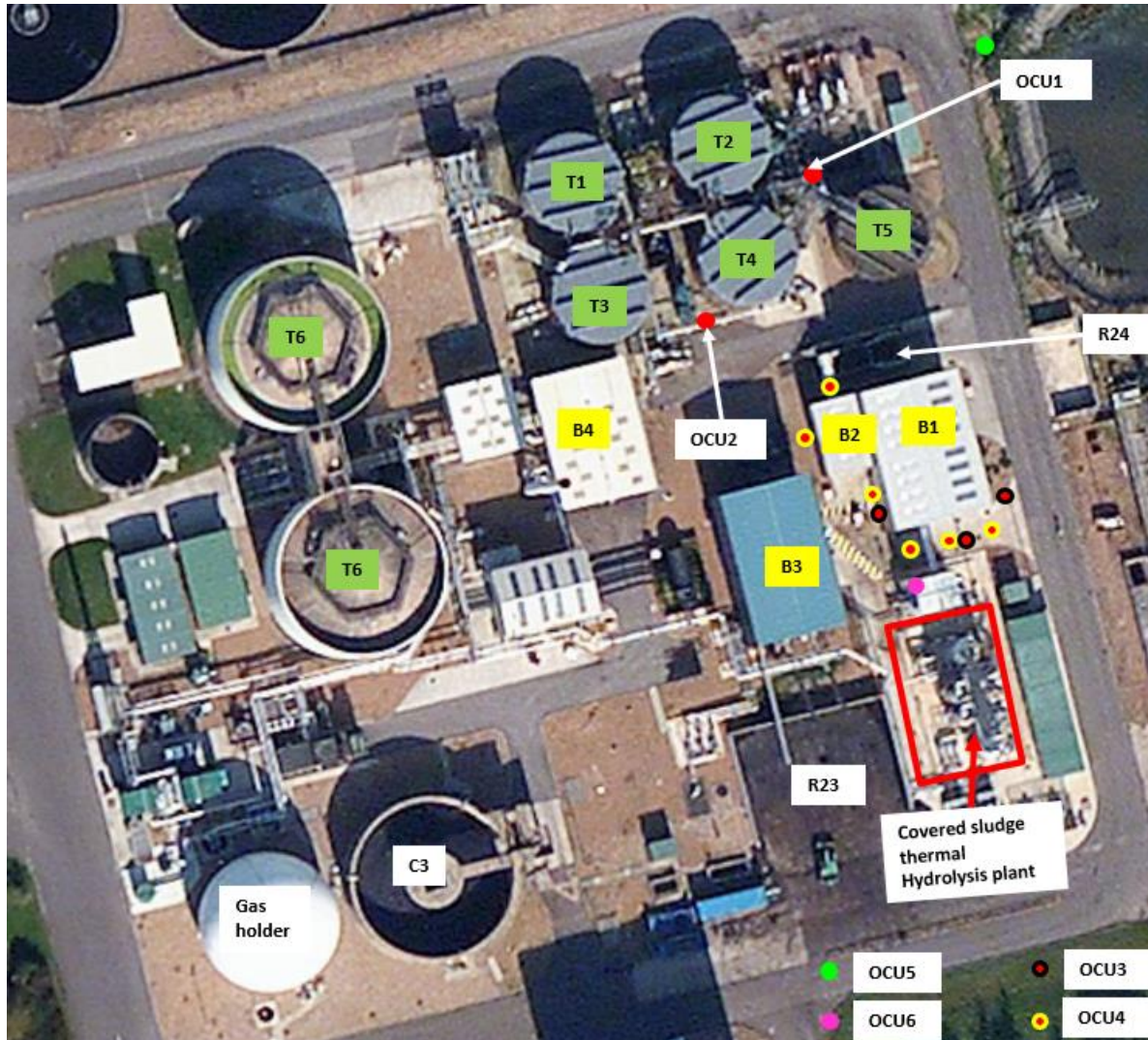


Figure 9: Cotton Valley WRC – Sludge handling & treatment area

The details of all the odour sources and the corresponding emission rates used in modelling study for Cotton Valley WRC are given in Table 3.

Table 3: Cotton Valley WRC odour sources surface areas, release heights and odour emissions

number	Rectangular odour sources	Shape	Number	m length	m width	m Diameter	m elevation	m ² area	emission rate	Comments
R1	screw pumping station	rectangular	1	19.8	17	N/A	0.2	336.6	14.00	H2S sample (H&M Environmental 26/10/2011)
R2	channels to screen	rectangular	1	10	5	N/A	0.2	50.0	54.50	Olfactometric sample (H&M Environmental 26/10/2011)
R3	screens area	rectangular	1	5.5	5.5	N/A	0.2	30.3	14.50	Olfactometric sample (H&M Environmental 01/10/2014)
R4	Screenings skips	rectangular	1	4	1.5	N/A	0	6.0	35.00	OdourNet reference data
R5	channels to detritor	rectangular	1	3	3	N/A	0.2	9.0	9.02	Olfactometric sample Silsoe odours (14-17/10/2013)
R6	detritor	rectangular	1	10	10	N/A	0.2	100.0	48.90	Olfactometric sample Silsoe odours (14-17/10/2013)
R7	grit skip	rectangular	1	4	1.5	N/A	0	6.0	25.00	OdourNet reference data
R8	3 x channels to flume	rectangular	1	20	3	N/A	0.2	60.0	2.00	H2S sample (H&M Environmental 01/10/2014)
R9	3 x flumes channels	rectangular	1	8	3	N/A	0.2	24.0	353.00	H2S sample (H&M Environmental 01/10/2014)
R10	channels to phases 1&2&3	rectangular	1	18	3	N/A	0.2	54.0	2.00	H2S sample (H&M Environmental 01/10/2014)
R11	channels to phase 2 & 3	rectangular	1	25	3.5	N/A	0.2	87.5	2.00	H2S sample (H&M Environmental 01/10/2014)
R12	channels to phase 2	rectangular	1	9	3.5	N/A	0.2	31.5	2.00	H2S sample (H&M Environmental 01/10/2014)
R13	channels to phase 3 (1.5m wide), 88m in length	rectangular	1	88	1	N/A	0.2	88.0	2.00	H2S sample (H&M Environmental 01/10/2014)
R14	phase 2, 4 xPSTs	rectangular	1	62	62	N/A	0	3844.0	5.68	Olfactometric sample Silsoe odours (14-17/10/2013)
R15	phase 3, 4x psts	rectangular	1	62	62	N/A	0	3844.0	5.68	Olfactometric sample Silsoe odours (14-17/10/2013)
R16	storm tanks	rectangular	1	62	62	N/A	0	3844.0	0.6	Olfactometric sample Silsoe odours (14-17/10/2013)
R17	Anoxicx4 zone phase 1	rectangular	1	62	7	N/A	0.2	434.0	1.30	Olfactometric sample (H&M Environmental 26/10/2011)
R18	Anoxicx4 zone phase 2	rectangular	1	62	62	N/A	0.2	3844.0	1.30	Olfactometric sample (H&M Environmental 26/10/2011)
R19	Anoxicx4 zone phase 3	rectangular	1	62	62	N/A	0.2	3844.0	1.30	Olfactometric sample (H&M Environmental 26/10/2011)
R20	Phase 1 aeration tank	rectangular	1	77	62	N/A	0.2	4774.0	0.50	Olfactometric sample Silsoe odours (14-17/10/2013)
R21	Phase 2 aeration tank	rectangular	1	77	62	N/A	0.2	4774.0	0.50	Olfactometric sample Silsoe odours (14-17/10/2013)
R22	Phase 3 aeration tank	rectangular	1	77	62	N/A	0.2	4774.0	0.50	Olfactometric sample Silsoe odours (14-17/10/2013)
R23	sludge cake pad	rectangular	1	20	15	N/A	1	300.0	2.40	Olfactometric sample (H&M Environmental 02/02/2011)
R24	imported sludge cake conveyor	rectangular	1	10	3	N/A	1	30.0	41.30	Olfactometric sample Silsoe odours (14-17/10/2013)

number	Circular odour sources	Shape	Number	m length	m width	m Diameter	m elevation	m ² area	emission rate	Comments
C1	Final settlement tanks Phase 2 &3	Circular	16	N/A	N/A	29	0.5	10563.0	0.37	Olfactometric sample Silsoe odours (14-17/10/2013)
C2	Final settlement tanks Phase 1	Circular	8	N/A	N/A	24	0.5	3617.3	0.37	Olfactometric sample Silsoe odours (14-17/10/2013)
C3	digested sludge tank	Circular	1	N/A	N/A	22	3.1	379.9	5.00	Olfactometric sample Silsoe odours (14-17/10/2013)

The odour emission rates used for the modelling study were mainly based on the olfactometric samples collected and analysed by Silsoe Odour Consultants in October 2013 and H&M Environmental consultants in October 2011 and 2014.

3.3.3 Receptor Network

A uniform polar grid with 31 rings at 50m spacing with 45 radials at 8-degree intervals, extending to 1500m with the centre placed at (X= 488610 E, Y= 240727 N), was placed over the map of the area as a receptors network providing 1395 receptors in and around the sewage works.

The odour contour maps were generated by orienting the map on the WRC site centre with a zoom radius of 1000m.

The extent of the grid was chosen to include any regions of sensitive or important receptors such as residential areas and be sufficiently large to capture peak downwind pollutant predictions.

4 Dispersion Modelling Results

The model was run using the three meteorological years (2018-2020) to test the variability of the odour concentration results among the different years and to determine the current baseline/existing WRC operation without the MKE development in place.

The 98th percentile of hourly mean odour concentrations has been calculated. Contour lines for odour concentrations of 1.5, 3, 5, and 10 OU_E/m^3 have been included for all the scenarios. The significance of these odour concentrations is explained below:

- 1 OU_E/m^3 is the level of odour detection under laboratory conditions.
- 3 OU_E/m^3 is the level of odour detection in open environment. Complaints are unlikely to occur and exposure below this level are unlikely to constitute significant pollution.
- 5 OU_E/m^3 is when odour becomes detectable & recognisable. Complaints may occur and depending on the sensitivity of the locality and nature of the odour.
- 10 OU_E/m^3 is when odour becomes distinct and intrusive. Complaints are highly likely and odour exposure at these levels represents an **actionable nuisance**.

An odour concentration of 3 OU_E/m^3 has been taken as the benchmark level at which nuisance and potential loss of amenity would be anticipated. This assessment criterion for the protection of public nuisance/amenity is in line with the IAQM Guidance on Assessment of Odour (version 1.1 - 2018). The guidance is for assessing odour Impact for planning purposes.

The odour contour maps for three model runs are shown in Figures 10 to 12.

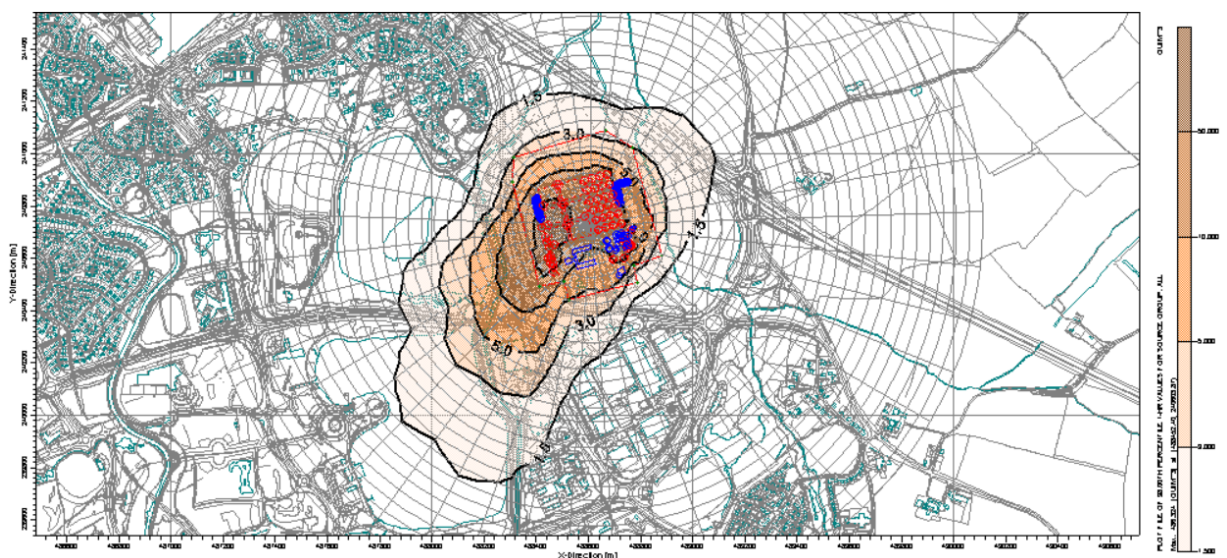


Figure 10: Cotton Valley WRC 98th percentile hourly means odour contour map (year 2018).

Zoom radius 1000m.

The 98th percentile of hourly mean odour concentrations calculated using 2018 meteorological data show that the 3 OU_E/m³ contour isopleth extends 730m in south westerly direction and encompasses an area of 562521m² approximately.

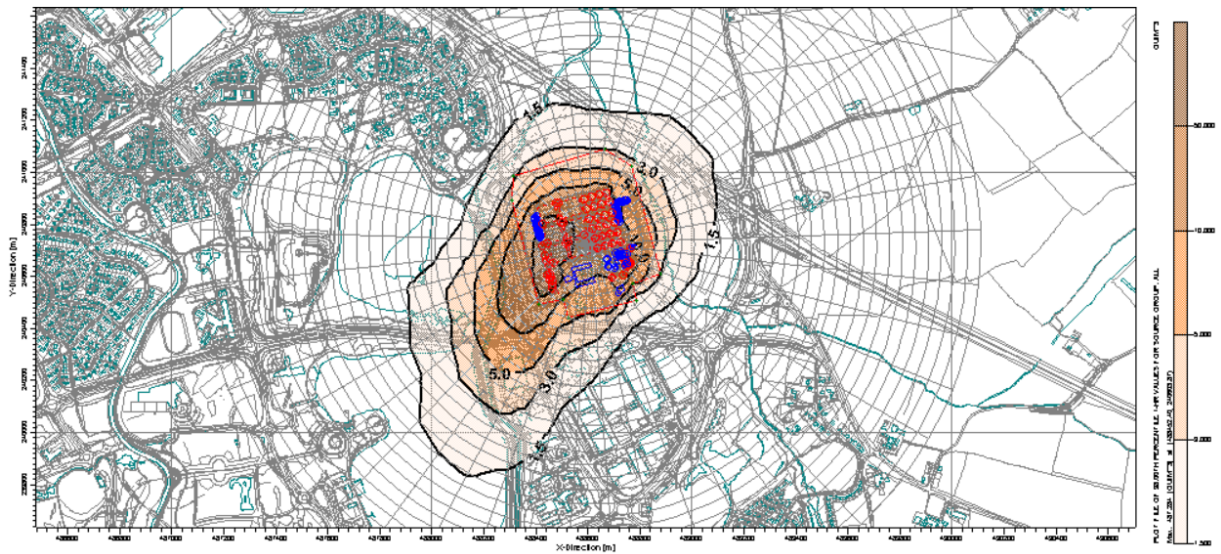
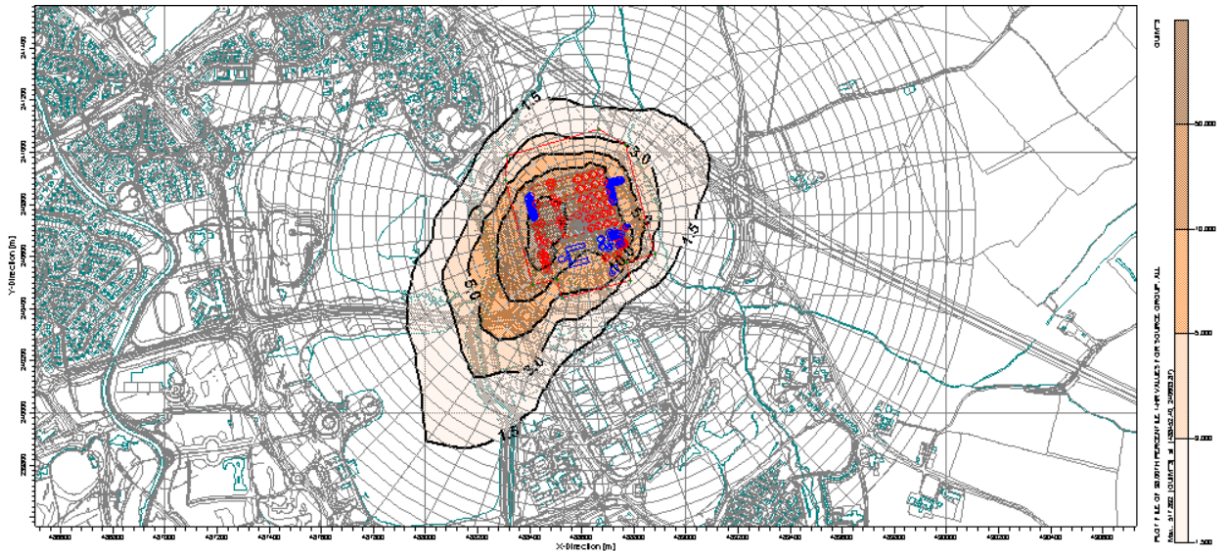


Figure 11: Cotton Valley WRC 98th percentile hourly means odour contour map (year 2019).
Zoom radius 1000m.

The 98th percentile of hourly means odour concentrations calculated using 2019 meteorological data show that the 3 OU_E/m³ contour isopleth extends 742m in a south westerly direction and encompasses an area of 573230m² approximately.



**Figure 12: Cotton Valley WRC 98th percentile hourly means odour contour map (year 2020).
Zoom radius 1000m.**

The 98th percentile of hourly mean odour concentrations calculated using 2020 meteorological data show that the $3 \text{ OU}_E/\text{m}^3$ contour isopleth extends 529m in a south westerly direction and encompasses an area of 516484m^2 approximately.

The model run with 2019 meteorological data gave the worst-case scenario as the area encompassed under the $3 \text{ OU}_E/\text{m}^3$ isopleth was 2% and 10% larger than the modelled year with meteorological data for 2018 and 2020, respectively. Therefore, any subsequent scenarios for various phases of Milton Keynes East Development, will use the 2019 meteorological data.

Therefore, the 2019 model run will be scenario 1 as agreed in the odour modelling assessment methodology with the Environmental Health Officer at Milton Keynes Council.

As it can be seen from the three odour contour plots, the odour plume transport and diffusion seem to favour towards a south westerly direction whereas normally we expect the plume movement to be towards a north easterly direction.

This is because of the area topography. Hill and rough terrain can change wind speed and direction and water bodies can considerably alter turbulence levels. This is better illustrated in figure 13 that shows a cross section of study area terrain elevations from South West (X = 485990.54, Y = 238011.79) to North East (X = 490994.57, Y = 243002.59). The figure shows that the WRC and the neighbouring south west

part of the site are amongst the lowest lying areas within the modelling zone and under certain meteorological conditions the odours tend to concentrate in this regions.

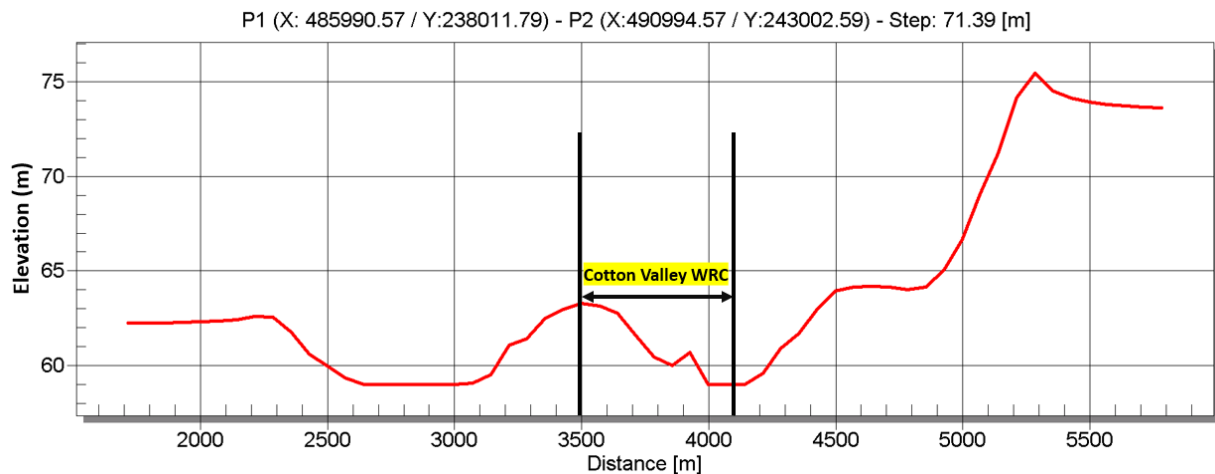


Figure 13: Cotton Valley WRC terrain elevation from South West to North East

Also, landscape plays an important role in movement of odours. Increasing the roughness of the terrain with obstacles such as hills, trees and building tend to increase dispersion in the odour plume. Land slope also changes the shape of the plume. Dispersion is increased if prevailing wind carry the plume up slope. Down slope or down valley winds will tend to concentrate odours in low lying areas.

Under certain dispersion conditions when the earth’s surface is cooling and winds are generally light, odours move by process of cold air drainage. Gravity pulls the plume into low spots. Cold air drainage plays a very large role in movement of odours. Most odours are heavier than air, increasing their tendency to settle in low lying areas. Odours may travel a great distance under such dispersion conditions.

5 Milton Keynes East Phase Development – Modelling scenarios

The purpose of this assessment was to appraise the potential for odour impacts due to emissions from the Cotton Valley WRC across the proposed MKE development site. Berkeley Group Ltd intend to develop the Application Site in three phases. The proposed development consists of residential, sport & recreational, employment.

Therefore, three additional modelling scenarios were assessed to reflect how the odour emissions generated from the WRC will impact future receptors with each phase of MKE development. The details of these scenarios are as follows:

- Scenario 2 - Current base line/existing reflecting the WRC under the current operational regime with the MKE development phase 1 in place.
- Scenario 3 - Current base line/existing reflecting the WRC under the current operational regime with the MKE development phase 2 in place.
- Scenario 4 - Current base line/existing reflecting the WRC under the current operational regime with the MKE development phase 3 in place.

The odour contour maps for these scenarios are given in Figures 14 to 16.

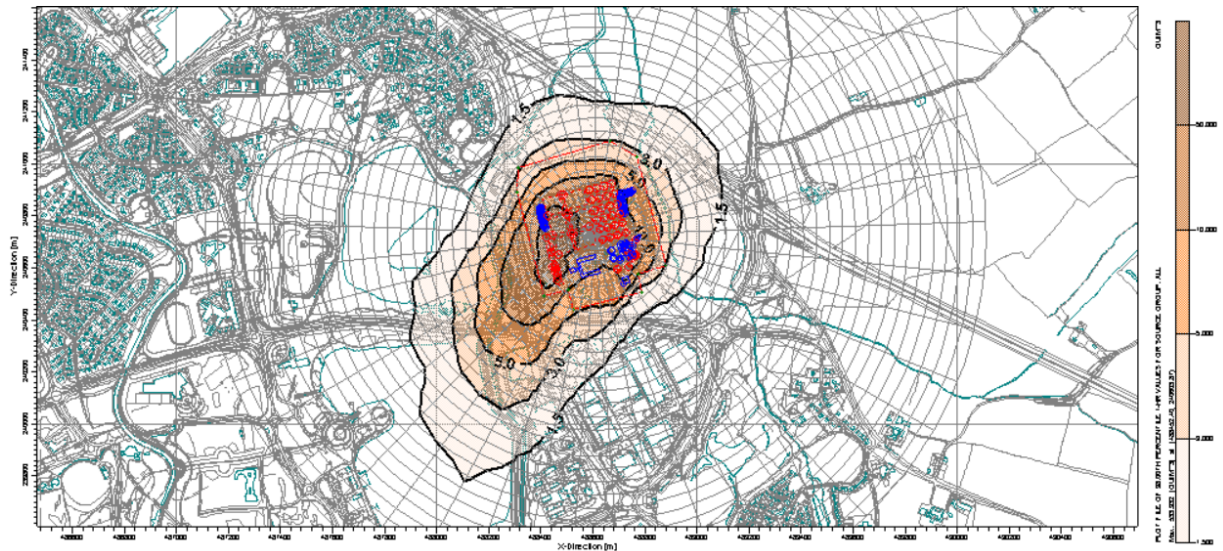
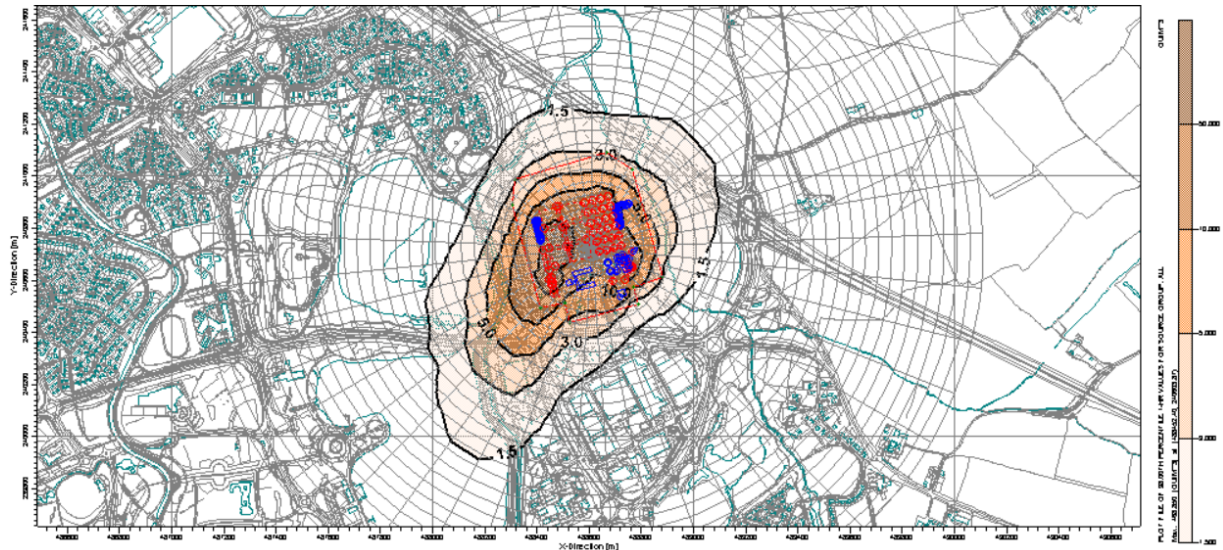


Figure 14: Scenario 2 - Cotton Valley WRC 98%ile hourly means odour contour map (year 2019). Phase 1 development - Zoom radius 1000m.

The 98th percentile of hourly mean odour concentrations calculated using 2019 meteorological data for phase 1 of the proposed development show that the $3 \text{ OU}_E/\text{m}^3$ contour isopleth extends 747m in a south westerly direction and encompasses an area of 573230m^2 approximately. Although the contour line extends slightly further (3%) in the south westerly direction it encompasses the same area.

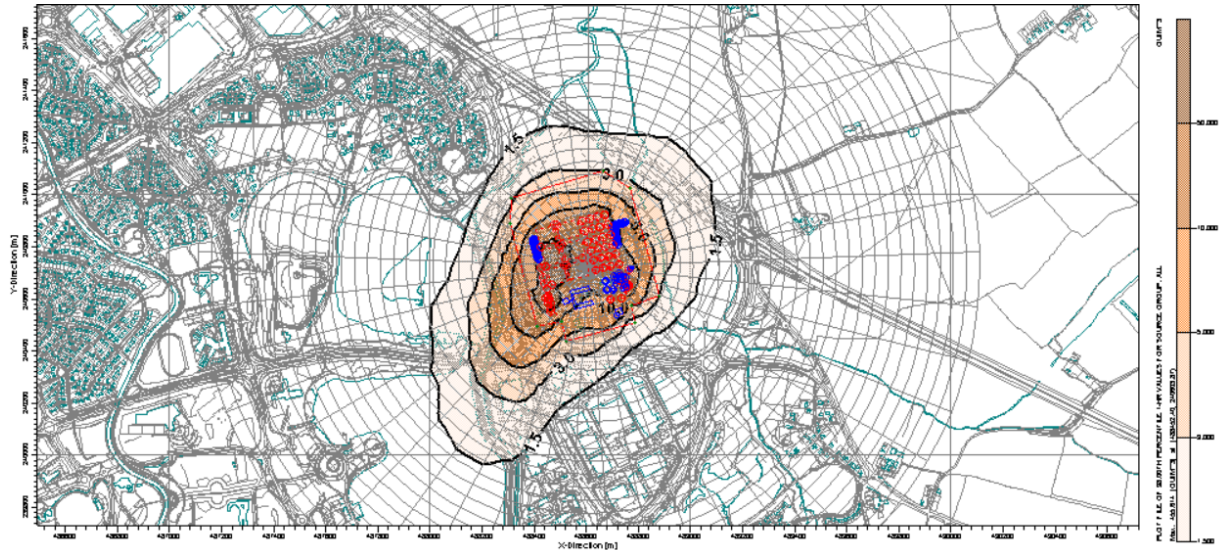
The development of phase 1 will have no cumulative effects on the odour footprint of the area.



**Figure 15: Scenario 3 - Cotton Valley WRC 98%ile hourly means odour contour map (year 2019).
Phase 2 development - Zoom radius 1000m.**

The 98th percentile of hourly means odour concentrations calculated using 2019 meteorological data for phase 2 of the proposed development show that the $3 \text{ OU}_E/\text{m}^3$ contour isopleth extends 652m in a south westerly direction and encompasses an area of 501641m^2 approximately.

The development of phase 2 will decrease the extent and area encompassed by the $3 \text{ OU}_E/\text{m}^3$ contour isopleth by 12% due to increasing of surface roughness because of the increasing of land occupied by the built-up area (9%).



**Figure 16: Scenario 4 - Cotton Valley WRC 98th percentile hourly means odour contour map (year 2019).
Phase 3 development - Zoom radius 1000m.**

The 98th percentile of hourly means odour concentrations calculated using 2019 meteorological data for phase 3 of the proposed development show that the 3 OU_E/m³ contour isopleth extends 620m in a south westerly direction and encompasses an area of 482276m² approximately.

The development of phase 3 will again decrease the extent and area encompassed by the 3 OU_E/m³ contour isopleth by 16% due to increasing of surface roughness because of the further increase of the land occupied by the built-up area (13%).

6.0 Conclusions

This modelling study evaluates the risk of amenity loss to areas around Cotton Valley WRC.

The 98th percentile of hourly means odour concentrations calculated using 2019 meteorological data showed that for a typical operating Cotton Valley WRC, the 3 OU_E/m³ contour isopleth could affect areas within 742m from the site centre and encompasses an area of 573230m² approximately.

Completion of Phase 1 of the proposed MKE development will have no effects on Cotton Valley WRC odour footprint.

Completion of Phase 2 of the proposed MKE will increase the built-up area to 9%, decreasing the WRC odour footprint by 12%.

Completion of Phase 3 of the proposed MKE development will increase the built-up area to 13%, decreasing the WRC odour footprint by 16%.

7.0 Recommendations

An odour concentration of $3 \text{ OU}_E/\text{m}^3$ has been taken as the benchmark level at which nuisance and potential loss of amenity would be anticipated. This assessment criterion for the protection of public nuisance/amenity is in line with IAQM Guidance on Assessment of Odour (version 1.1 - 2018). The guidance is for assessing odour Impact for planning purposes.

Figure 17 provides a summary for MKE phase developments and the exclusion zones.

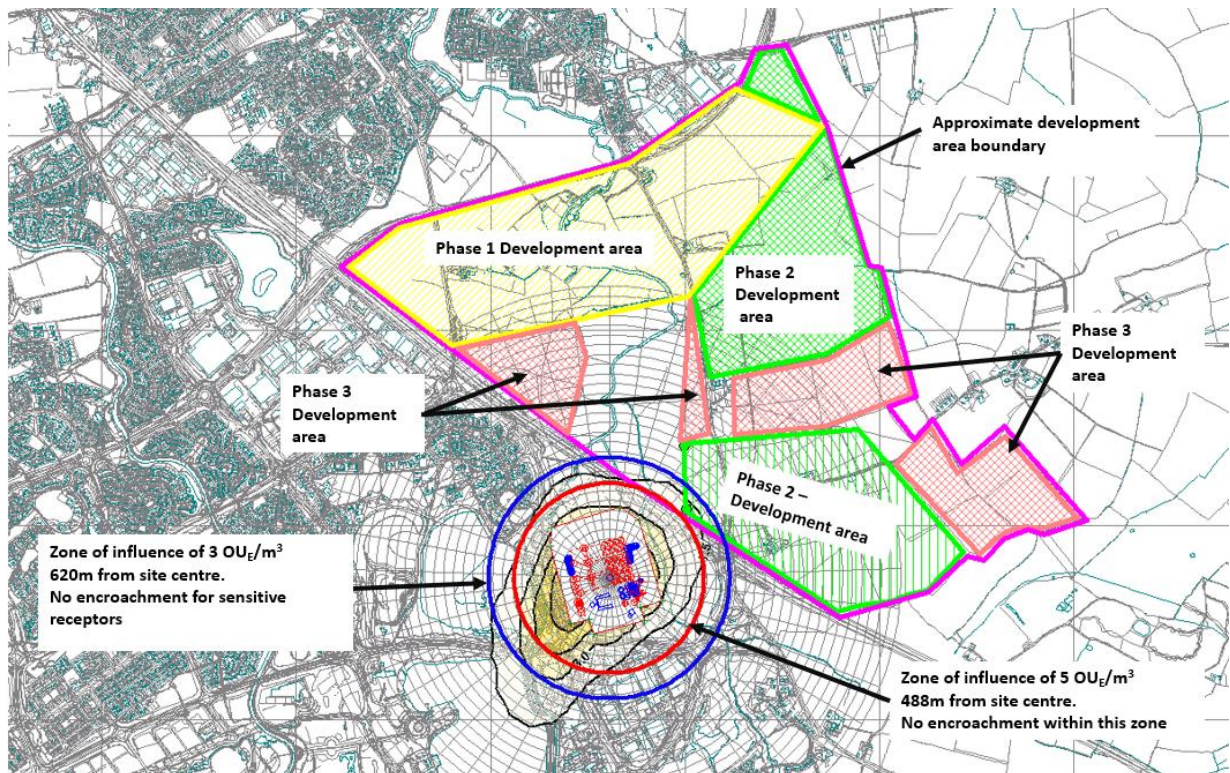


Figure 17: summary of MKE phase developments and exclusion zones.

Considering the topography and landscape of the study area and the role they play in the transport of odour plume, it is recommended that no encroachment should be permitted within 488m from the site centre (X= 488610 E, Y= 240727 N).



The zone occupied between 488m and 620m from the site centre is only suitable for less sensitive receptors such as industrial units.

Appendix A – Certificate of Met Data from Atmospheric Dispersion Modelling



ADM Ltd
 Old Chambers
 93-94 West Street
 Farnham
 Surrey GU9 7EB

15 January 2021

Anglian Water
 Thorpe Wood House
 Thorpe Wood
 Peterborough
 Cambs
 PE3 6WT

Statement of Meteorological Data: Cotton Valley

AERMOD ready met data provide from observations made at Bedford with missing data from Luton (2018-2020)

Details of Parameters used to process the met data shown below

	Observing Station	Modelling Site
Long	52.217 N	52.058 N
Lat	0.483 W	0.709 W
Albedo		0.251
Bowen		1.100
Roughness (Ro)		0.2-0.5