

APPENDIX C1 – SUMMARY OF TRAFFIC DATA

Table C.1.1: Traffic Data for 2015 Verification

Road Link	Description	Average Speed (mph)	2015 Verification and Baseline				
			AADT Traffic Flows	HDV (%)	Emission Rate (g/km/s)		
					NO _x	PM ₁₀	PM _{2.5}
1	A12 north of roundabout with A1214	60	29423	15	0.203637	0.017957	0.010943
2a	A12 south of roundabout with A1214 (reduced speed approaching junction)	30	34270	15	0.285504	0.020912	0.012743
2b	A12 south of roundabout with A1214	60	34270	15	0.237183	0.020915	0.012745
2c	A12 south of roundabout with A1214 (reduced speed approaching roundabout with Anson Road)	25	34270	15	0.320013	0.021313	0.013124
3a	A12 south of roundabout with Anson Road (reduced speed approaching roundabout)	25	34270	15	0.320013	0.021313	0.013124
3b	A12 south of roundabout with Anson Road	60	34270	15	0.237183	0.020915	0.012745
3c	A12 south of roundabout with Anson Road (reduced speed approaching site access)	30	34270	15	0.285504	0.020912	0.012743
4a	A12 south of site access (reduced speed approaching junction)	30	34270	15	0.285504	0.020912	0.012743
4b	A12 south of site access	60	34270	15	0.237183	0.020915	0.012745
4c	A12 south of site access (reduced speed approaching roundabout with Newbourne Road)	30	34270	15	0.285504	0.020912	0.012743

5a	A12 south of roundabout with Newbourne Road (reduced speed approaching roundabout)	30	30596	15	0.254896	0.018670	0.011377
5b	A12 south of roundabout with Newbourne Road	60	30596	15	0.211755	0.018673	0.011379
6a	Main Road (reduced speed approaching roundabout with A12)	20	2886	10	0.025010	0.001626	0.001009
6b	Main Road	30	2886	10	0.019655	0.001559	0.000945
7	Newbourne Road	40	2276	10	0.013486	0.001208	0.000725
8a	A1214 Woodbridge Road (reduced speed approaching roundabout with A12)	20	10009	10	0.086737	0.005641	0.003498
8b	A1214 Woodbridge Road	40	10009	10	0.059306	0.005314	0.003188
9	A1071	30	12417	10	0.084567	0.006709	0.004065
10	Foxhall Road East	60	10167	5	0.051766	0.004893	0.002982
11	Foxhall Road West	40	10178	5	0.048030	0.004722	0.002817
12a	Bell Lane (reduced speed approaching junction with A1214)	15	2408	1	0.013108	0.001053	0.000648
12b	Bell Lane	30	2408	1	0.009810	0.000998	0.000596
13	Monument Farm Lane	30	431	0	0.001625	0.000173	0.000103

Table C.1.2: Summary of Traffic Data

Road Link	Description	Average Speed (mph)	2027 Do Minimum				
			AADT Traffic Flows	HDV (%)	Emission Rate (g/km/s)		
					NO _x	PM ₁₀	PM _{2.5}
1	A12 north of roundabout with A1214	60	31390	15	0.061590	0.015824	0.008473
2a	A12 south of roundabout with A1214 (reduced speed approaching junction)	30	38203	15	0.074159	0.019389	0.010435
2b	A12 south of roundabout with A1214	60	38203	15	0.074957	0.019259	0.010312
2c	A12 south of roundabout with A1214 (reduced speed approaching roundabout with Anson Road)	25	38203	15	0.079711	0.019463	0.010506
3a	A12 south of roundabout with Anson Road (reduced speed approaching roundabout)	25	38203	15	0.079711	0.019463	0.010506
3b	A12 south of roundabout with Anson Road	60	38203	15	0.074957	0.019259	0.010312
3c	A12 south of roundabout with Anson Road (reduced speed approaching site access)	30	38203	15	0.074159	0.019389	0.010435
4a	A12 south of site access (reduced speed approaching junction)	30	38203	15	0.074159	0.019389	0.010435
4b	A12 south of site access	60	38203	15	0.074957	0.019259	0.010312
4c	A12 south of site access (reduced speed approaching roundabout with Newbourne Road)	30	38203	15	0.074159	0.019389	0.010435
5a	A12 south of roundabout with Newbourne Road (reduced speed approaching roundabout)	30	33545	15	0.065117	0.017025	0.009163

5b	A12 south of roundabout with Newbourne Road	60	33545	15	0.065818	0.016911	0.009054
6a	Main Road (reduced speed approaching roundabout with A12)	20	3496	10	0.007507	0.001611	0.000876
6b	Main Road	30	3496	10	0.006376	0.001596	0.000862
7	Newbourne Road	40	3822	10	0.006456	0.001737	0.000935
8a	A1214 Woodbridge Road (reduced speed approaching roundabout with A12)	20	10503	10	0.022552	0.004839	0.002633
8b	A1214 Woodbridge Road	40	10503	10	0.017741	0.004774	0.002570
9	A1071	30	14836	10	0.027057	0.006774	0.003660
10	Foxhall Road East	60	11975	5	0.021648	0.004828	0.002610
11	Foxhall Road West	40	11891	5	0.018859	0.004802	0.002599
12a	Bell Lane (reduced speed approaching junction with A1214)	15	2713	1	0.005616	0.001006	0.000555
12b	Bell Lane	30	2713	1	0.004375	0.000990	0.000540
13	Monument Farm Lane	30	515	0	0.000818	0.000183	0.000100

Table C.1.3: Traffic Data for 2027 with Development

Road Link	Description	Average Speed (mph)	2027 Do Minimum				
			AADT Traffic Flows	HDV (%)	Emission Rate (g/km/s)		
					NO _x	PM ₁₀	PM _{2.5}
1	A12 north of roundabout with A1214	60	33214	15	0.065169	0.016744	0.008965
2a	A12 south of roundabout with A1214 (reduced speed approaching junction)	30	39070	15	0.075842	0.019829	0.010672
2b	A12 south of roundabout with A1214	60	39070	15	0.076658	0.019696	0.010546
2c	A12 south of roundabout with A1214 (reduced speed approaching roundabout with Anson Road)	25	39070	15	0.081520	0.019905	0.010744
3a	A12 south of roundabout with Anson Road (reduced speed approaching roundabout)	25	39070	15	0.081520	0.019905	0.010744
3b	A12 south of roundabout with Anson Road	60	39070	15	0.076658	0.019696	0.010546
3c	A12 south of roundabout with Anson Road (reduced speed approaching site access)	30	39070	15	0.075842	0.019829	0.010672
4a	A12 south of site access (reduced speed approaching junction)	30	39070	15	0.075842	0.019829	0.010672
4b	A12 south of site access	60	39070	15	0.076658	0.019696	0.010546
4c	A12 south of site access (reduced speed approaching roundabout with Newbourne Road)	30	39070	15	0.075842	0.019829	0.010672
5a	A12 south of roundabout with Newbourne Road (reduced speed approaching roundabout)	30	34344	15	0.066668	0.017430	0.009381

5b	A12 south of roundabout with Newbourne Road	60	34344	15	0.067386	0.017313	0.009270
6a	Main Road (reduced speed approaching roundabout with A12)	20	3107	10	0.006671	0.001432	0.000779
6b	Main Road	30	3107	10	0.005666	0.001419	0.000766
7	Newbourne Road	40	9415	10	0.015903	0.004279	0.002304
8a	A1214 Woodbridge Road (reduced speed approaching roundabout with A12)	20	11870	10	0.025487	0.005469	0.002975
8b	A1214 Woodbridge Road	40	11870	10	0.020050	0.005395	0.002905
9	A1071	30	14914	10	0.027200	0.006809	0.003679
10	Foxhall Road East	60	12759	5	0.023065	0.005144	0.002781
11	Foxhall Road West	40	11960	5	0.018968	0.004830	0.002614
12a	Bell Lane (reduced speed approaching junction with A1214)	15	3859	1	0.007988	0.001430	0.000790
12b	Bell Lane	30	3859	1	0.006222	0.001408	0.000768
13	Monument Farm Lane	30	447	0	0.000710	0.000159	0.000087