# MODELLING GROUP

## Access Strategy A

MG0123 - A49 Corridor VISSIM, Warrington

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#### 1. INTRODUCTION

#### 1.1 Background

- 1.1.1 Modelling Group Ltd has previously developed a base-year microsimulation model of the A49 corridor for the area to the north of Warrington, surrounding the M62 junction 9. For further detailed information relating to this exercise, please refer to 'MG0123\_A49WarringCorridor\_BaseModellingReport\_v1.2.pdf'.
- 1.1.2 The aim of this model has been to provide a robust platform on which the proposed development (Peel Hall) can be tested and impact upon the highway network assessed in the future years 2022, 2027 and 2032.

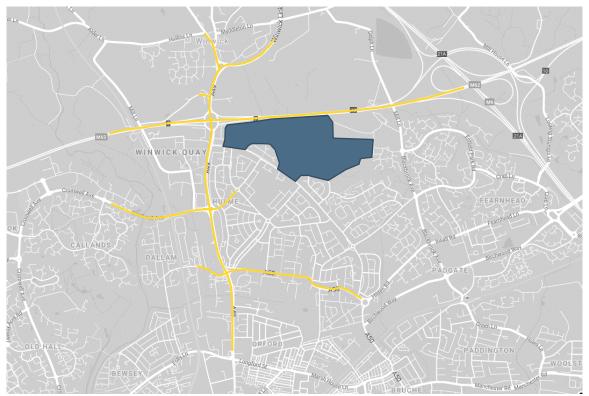


FIGURE 1.1: NETWORK EXTENTS AND APPROXIMATE LOCATION OF DEVELOPMENT

#### 1.2 Report Purpose

1.2.1 The following report summarises the methodology used to build and test the model, as well as the results obtained to determine the comparative performance impacts of Peel Hall Access Strategy A flows within the committed future year networks, as detailed above.

#### 1.4 Report Structure

The report is structured as follows:

- **Section 2: Methodology** including information on the model development and scenarios tested;
- Section 3: Model Performance including network performance statistics, queue lengths and journey times; and
- Section 4: Summary and Recommendations.

#### 2 METHODOLOGY

#### 2.1 Overview

- 2.1.1 The model extent used is consistent with the 2019 base model as highlighted in Figure 2.1.
- 2.1.2 Also consistent with the 2019 base year modelling, the 2022, 2027 and 2032 models are modelled to cover a 2.5-hour period, for the AM and PM traffic peaks.
- 2.1.3 In the AM, this period covers 07:00-09:30, with an hour 'warm-up' from 07:00-08:00, and a half-hour 'cool-down' from 09:00-09:30. In the PM, this period covers 16:00-18:30, with an hour 'warm-up' from 16:00-17:00, and a half-hour 'cool-down' from 18:00-18:30.
- 2.1.4 The model has been developed using the same version of the software as used for the validated base model (PTV VISSIM 11.00-12). Results have been output with a model resolution of 5-time steps per second, as was used in the base model. The same random seeds have also been used (starting from 5, increasing by 5 each run, for 10 runs).

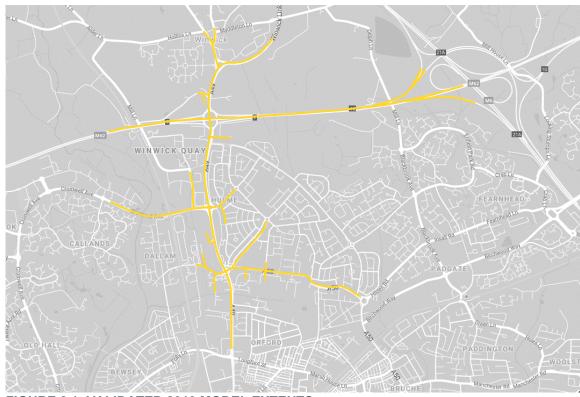


FIGURE 2.1: VALIDATED 2019 MODEL EXTENTS

#### 2.2 Scenarios Tested

- 2.2.1 The scenarios tested in the model were:
  - 2022 Do Minimum (Reference Case)
  - 2022 Do Something (Full Development Scenario)
  - 2027 Do Minimum (Reference Case)
  - 2027 Do Something (Full Development Scenario)
  - 2032 Do Minimum (Reference Case)
  - 2032 Do Something (Full Development Scenario)
- 2.2.2 The flows for each scenario were provided by Highgate Transportation in the spreadsheet 'Peel Hall Access Strategy A Flow Diagram Spreadsheet REISSUE 200120.xlsm'. The flow diagrams within this were developed using the SATURN model (WMMTM16) outputs provided by AECOM.
- 2.2.3 In order to ensure a fully transparent and traceable process in the conversion of these flows into a useable format for entry into the VISSIM models, the matrices creation module in LinSig 3 was used to develop Origin-Destination matrices for each vehicle type.
- 2.2.4 The current model area does not have any route choice, hence the choice of LinSig was considered appropriate to evaluate the routing for both lights and heavies. A total of 15 different scenarios for Lights and Heavies have been processed. A skeleton model of the area was constructed and turning counts were imported at each junction for validation purposes.
- 2.2.5 Flow consistency checks were undertaken on the SATURN flow diagrams provided to make sure that the number of vehicles leaving one junction were equal to the number of vehicles entering the next one. It was concluded that the flow provided was consistent and could be used for flow estimation in LinSig. Traffic data was processed by LinSig and it was concluded that 100% of the GEH values for all scenarios were below a threshold of 3.
- 2.2.6 The LinSig model has been provided for review as part of the final model submission for Option A, and is detailed further in Appendix B.

#### 2.3 Network Development

- 2.3.1 Several changes have been made to the model network to reflect planned improvements in the area. These include:
  - A49 Newton Road/ Winwick Link Road Junction (Winwick Island) Widening of the northbound and southbound approaches on Newton Road, widening of the westbound approach from Winwick Link Road including the creation of a segregated left turn lane.
     Also included, is widening of the circulatory carriageway.
  - A49 Newton Road / Delph Lane Junction Additional lane for Newton Road northbound, including widened exit merge.
  - A49 Winwick Road/ Junction Nine Retail Park Junction Widening of Winwick Road northbound to facilitate a dedicated left turn lane into the retail park, Widening of Winwick Road southbound to extend the existing dedicated right turn lane into the retail park.
- 2.3.2 Detailed drawings used to model junction mitigations are shown in Appendix E.
- 2.3.3 Additional changes were also made to remove some priority rules at the roundabout, as it became apparent that the increase in overall traffic volume caused the network to 'lock up' on some model runs, in a manner which was judged to be entirely unrealistic.

#### 2.4 Traffic Compositions

As with the original models, three primary traffic compositions were used in the models: Cars, LGVs and HGVs. However, when modelling the 'Do Something' scenario models, additional development related traffic was added as a separate vehicle type, based on the Cars composition.

#### 3 MODEL PERFORMANCE

#### 3.1 Overview

- 3.1.1 The impact of the development on the local highway network has been assessed in 2022, 2027, and 2032, using the following model outputs:
  - Overall network performance statistics; including average per vehicle delay/speed, total network delay, latent demand;
  - Average maximum & "average average" queue lengths at key junctions; and
  - Average journey times and volumes along key routes.
- 3.1.2 All modelled scenario results are averaged over 10 random seed runs, to reflect daily fluctuations in arrival patterns.

#### 3.2 Network Performance Statistics

- 3.2.1 This section summarises the network performance statistics. Network performance data is split into two main types – average per vehicle data, and total network statistics (taken over the peak hour).
- 3.2.2 Data is then further broken down as follows:
  - Per Trip Average Per Vehicle Data:
    - Delay defined as average time spent in a delay state (i.e. being held below desired speed due to network conditions);
    - Stops defined as the average number of times each vehicle comes to a full stop;
    - **Speed** defined as the overall average speed per trip, in miles per hour;
    - Stopped Delay defined as the average amount of time spent in an unwanted, stopped state
  - Total Network Data
    - **Distance** defined as the total cumulative distance travelled by all vehicles completing trips within the peak hour;
    - **Travel Time** defined as the total cumulative travel time of all vehicles completing trips within the peak hour;
    - **Delay Time** defined as the total cumulative time spent in a delay state by all vehicles during the peak hour;
    - **Stops** defined as the total cumulative number of vehicle stops within the network during the peak hour;
    - Stopped Delay defined as the total cumulative amount of time spent in an unwanted, stopped state by all vehicles during the peak hour;
    - **Vehicles Active** defined as the total number of vehicles still active within the network at the end of the peak hour;
    - Vehicles Arrived defined as the total number of completed trips by the end of the peak hour;
    - Latent Delay defined as the total amount of delay stored outside of the network
       (i.e. experienced by Latent Demand see below, and therefore not counted in the
       Delay Time statistic defined above) at the end of the evaluation interval;
    - Latent Demand defined as the total number of vehicles (demand) stuck outside
      of the network at the end of the evaluation interval (generally due to queueing and
      delays).

- 3.2.3 Tables 3.1 and 3.2 show the summary data for the AM and PM modelled peaks respectively.
- 3.2.4 There are two or three primary links with congestion levels which tend to lead to latent demand at the end of the peak periods (i.e. trapped outside of the network). These are:
  - Golborne Road in the morning peak, traffic struggles to access the A49 at this junction due to the high volume of right turners (in and out) combined with the high volume of northbound and southbound traffic on the A49 itself. If remedied, and using the detail found in the error files as a guide (although it is worth noting that the error files only record latent demand at the end of the model run i.e. after the half-hour long cool-down period, whereas the summary data in tables 3.1 and 3.2 is just for the actual modelled peak, but only shows the total with no further detail) this could lead to as much 400-500 additional vehicles entering the network in the AM 2032 Do Something model. In the AM 2032 Do Minimum model, there is approximately 200 vehicles trapped outside of the network here. This is despite this entry link being extended to approximately 2.5km from the junction.
  - Sandy Lane West and/ or Cromwell Avenue The signalised roundabout junction with the A49 is a very congested junction in most future year scenarios. However, in the PM peak, there is the added complication that there is a high proportion of right-turning traffic from each of the approaches, as well as heavy ahead movements on all arms. This makes balancing fixed-time plans very difficult. As the volumes on the A49 are so high, the northbound and southbound traffic has to have a lot of priority, meaning traffic on either Cromwell Avenue or Sandy Lane West, or both, struggle to get through the junction. In 2032, this results in some latent demand.

	Aver	age Pei	/Vehicl	le - 08:00-09:00					Total Network	Statistics - 08:00-0	9:00		
	Delay	Stops	Speed	Stopped Delay	Distance	Travel Time	Delay Time	Stops	Stopped Delay	Vehicles Active	Vehicles Arrived	Latent Delay	Latent Demand
AM DoMin 2022	144	8	26	58	62372	5270989	2445827	139932	988752	1341	15695	939	3
AM DoSom 2022	195	10	22	85	63084	6378632	3462379	184486	1508796	1644	16075	250855	209
AM DoMin 2027	179	11	24	72	65018	6171315	3233343	195161	1298129	1467	16579	105573	129
AM DoSom 2027	203	12	22	81	65786	6788242	3773433	220861	1494284	1656	16893	259067	230
AM DoMin 2032	232	15	20	90	68507	7555407	4469041	288945	1726514	1699	17586	140302	160
AM DoSom 2032	282	17	18	114	69255	8797932	5620567	342031	2273726	2113	17848	431226	334

TABLE 3.1: AM PEAK NETWORK PERFORMANCE STATISTICS SUMMARY

	Aver	age Pei	/Vehic	le - 17:00-18:00					Total Network	Statistics - 17:00-1	L8:00		
	Delay	Stops	Speed	Stopped Delay	Distance	Travel Time	Delay Time	Stops	Stopped Delay	Vehicles Active	Vehicles Arrived	Latent Delay	Latent Demand
PM DoMin 2022	106	3	29	57	63419	4908340	1996392	58286	1069227	1359	17473	1357	0
PM DoSom 2022	126	4	26	64	64776	5527084	2485479	71876	1251305	1541	18135	5880	0
PM DoMin 2027	100	3	30	52	66713	5063540	1998446	56795	1031286	1379	18531	23684	16
PM DoSom 2027	143	5	25	73	67798	6151377	2972079	100662	1516812	1683	19036	150179	106
PM DoMin 2032	112	3	28	58	70417	5596665	2363268	69767	1223348	1503	19567	54959	40
PM DoSom 2032	174	6	22	93	71047	7125402	3805499	133757	2034172	2001	19916	288881	184

TABLE 3.2: PM PEAK NETWORK PERFORMANCE STATISTICS SUMMARY

#### 3.3 Queue Length Comparison

- 3.3.1 Average absolute maximum queue lengths (i.e. the average of the single largest queue lengths to occur at any point during each of the seed runs), and "average average" (i.e. the average of the queue lengths over the entire peak period, averaged for all seed runs) have been analysed at the following junctions:
  - A49 Newton Road / Winwick Park Avenue / Winwick Link Road
  - A49 Newton Road / Delph Lane
  - M62 Junction 9
  - A49 Winwick Road / Birch Avenue
  - A49 Winwick Road / Poplars Avenue
  - A49 Winwick Road / A574 Cromwell Avenue / Sandy Lane West
  - A49 Winwick Road / Junction NINE Retail Park
  - A49 Winwick Road / Hawleys Lane / A50 Long Lane
- 3.3.2 Queue lengths have been extracted for comparison during the AM peak (08:00-09:00) period and PM peak (17:00-18:00) periods.
- 3.3.3 When analysing the figures, it is worth noting that VISSIM collects queue lengths from a given marker extending backwards along the link until it reaches another queue marker. Hence, where there are junctions close together the queue lengths are capped at the distance between the junctions. This can be misleading as such, queue outputs should be read in conjunction with journey time results to gain a full understanding of scenario differences.
- 3.3.4 Tables 3.3 and 3.4 summarise the AM peak average and average maximum queue comparisons respectively. There are some more notable increases to maximum queue lengths for traffic on the eastbound off-slip from the M62 which are reasonably consistent in all scenarios. When watching the model, it is clear this is just down to the slightly non-responsive nature of the signal controller within the model, which has been created as a fixed time controller. As a result, it is likely that the numbers shown very much represent a worst-case scenario, as the signals onsite run under MOVA control. The queueing vehicles are always well contained within the link stacking capacity (of approximately 315m within the model maximum queue lengths are approximately 200m in all Do Something scenarios).
- 3.3.5 To the south of M62 Junction 9, the worst impacts are seen on the Sandy Lane West approach to the A49 Winwick Road / A574 Cromwell Avenue / Sandy Lane West roundabout. There was a need to extend the link length for Sandy Lane West (from approximately 300m in reality, to almost 1500m), in an attempt to get all traffic loaded into the model.

							08:00	-09:00					
			20	122			20	27			20	32	
	Junction/ Movement	Length (	(metres)	Diffe	rence	Length I	(metres)	Differ	rence	Length (	metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	
	A49 NB to Winwick Park Ave	14	17	4	26%	17	23	6	38%	25	49	24	969
	A49 NB	14	17	4	26%	17	23	6	38%	25	49	24	969
	A49 NB to Winwick Link Rd	14	17	4	26%	17	23	6	38%	25	49	24	969
	Winwick Park Ave to A49 NB	4	5	0	2%	5	5	0	0%	5	5	0	09
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	4	5	0	2%	5	5	0	0%	5	5	0	09
A49 Winwick Link	Winwick Park Ave to A49 SB	4	5	0	2%	5	5	0	0%	5	5	0	09
Road/Winwick Park	A49 SB to Winwick Link Rd	51	57	6	13%	43	45	2	4%	41	32	-9	-219
Avenue	A49 SB	51	57	6	13%	43	45	2	4%	41	32	-9	-219
	A49 SB to Winwick Park Ave	51	57	6	13%	43	45	2	4%	41	32	-9	-219
	Winwick Link Rd to A49 SB	2	2	0	-1%	3	3	0	-1%	4	3	0	-39
	Winwick Link Rd to Winwick Park Ave	3	3	0	-2%	5	5	0	-1%	5	5	0	99
	Winwick Link Rd to A49 NB	3	3	0	-2%	5	5	0	-1%	5	5	0	99
	A49 NB	21	24	3	16%	38	57	19	50%	57	28	-29	-519
	A49 NB to Delp Ln	21	24	3	17%	38	57	19	50%	58	29	-29	-519
A49 Newton Road/	A49 SB	44	45	1	2%	50	49	-1	-2%	61	64	3	59
Delph Lane	A49 SB to Delph Ln	12	12	0	0%	12	12	0	4%	12	34	22	1879
	Delph Ln to A49 NB	6	6	0	-2%	6	5	0	-3%	7	8	1	159
	Delph Ln to A49 SB	8	8	0	0%	7	7	0	1%	8	8	1	79
	A49 NB to M62 WB	15	16	2	11%	22	28	6	26%	60	39	-21	-359
	A49 NB	15	16	2	11%	22	28	6	26%	60	39	-21	-359
	A49 NB to M62 EB	15	16	2	11%	22	28	6	26%	60	39	-21	-359
	A49 NB to A49 SB (U-Turn)	15	16	2	11%	22	28	6	26%	60	39	-21	-359
	M62 EB to A49 NB	26	90	64	251%	16	44	28	174%	18	35	17	919
M62 Junction 9	M62 EB to A49 SB	26	90	64	251%	16	44	28	174%	18	35	17	919
	A49 SB to M62 EB	41	40	-1	-3%	41	40	-1	-3%	44	57	14	319
	A49 SB	41	40	-1	-3%	41	40	-1	-3%	44	57	14	319
	A49 SB to M62 WB	41	40	-1	-3%	41	40	-1	-3%	44	57	14	319
	M62 WB to A49 SB	14	14	0	2%	14	14	0	-1%	17	28	11	689
	M62 WB to A49 NB	14	14	0	2%	14	14	0	-1%	17	28	11	689

			مم	22			-00	107			.00	22	
	Lunghian / Marramanh	Laurenth- d	20			I am attle		127 Diffe		I am mile		32	
	Junction/ Movement	Length (	metres)	Differ	ence	Length	(metres)		rence	Length (	metres)	Diffe Actual	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	(metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-	0		-	-	0			
Birch Ave	Birch Rd to A49 SB	0	2	2	-	0	0	_	-	0	8	8	
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-	0	_	_	-	49	20	-29	
Poplars Avenue	A49 NB	0	0	0	-	0	2		-	49	20	-29	-59%
	A49 SB	2	10	8	449%	2	0	_	-98%	25	39	14	59%
	A49 SB to Sandy Ln West	208	199	-9	-4%	124	136	12	9%	263	211	-52	-20%
	A49 SB	208	199	-9	-4%	124	136	12	9%	263	211	-52	-20%
	A49 SB to Cromwell Ave	208	199	-9	-4%	124	136	12	9%	263	211	-52	-20%
	Cromwell Ave to A49 NB	17	20	3	18%	23	27	4	18%	34	51	17	51%
	Cromwell Ave to Sandy Ln West	30	35	5	18%	40	47		18%	58	84	26	
A49 Winwick Road/	Cromwell Ave to A49 SB	30	35	5	18%	40	47	7	18%	58	84	26	45%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	30	35	5	18%	40	47	7	18%	58	84	26	45%
Avenue/ Sandy Lane	A49 NB	4	7	3	63%	6	10	3	48%	11	12	1	12%
West	A49 NB to Sandy Ln West	4	7	3	63%	6	10		48%	11	12	1	12%
	A49 NB to Cromwell Ave	4	7	3	63%	6	10	_	48%	11	12	1	12%
	Sandy Ln West to A49 NB	17	194	177	1024%	21	200	179	875%	99	224	125	126%
	Sandy Ln West to Sandy Ln (U-turn	17	194	177	1024%	21	200	179	875%	99	224	125	126%
	Sandy Ln West to A49 SB	17	194	177	1024%	21	200	179	875%	99	224	125	126%
	Sandy Ln West to Cromwell Ave	17	194	177	1024%	21	200	179	875%	99	224	125	126%
	A49 NB	16	16	1	4%	23	24	1	4%	23	24	0	2%
A49 Winwick Road @	A49 NB to Junction NINE Retail	16	16	1	4%	23	24	1	4%	23	24	0	2%
Junction NINE Retail	Junction NINE Retail to A49 SB	6	6	0	2%	6	6	0	-2%	6	6	0	1%
Park	Junction NINE Retail to A49 NB	5	5	0	6%	5	5	0	2%	5	6	0	7%
Fair	A49 SB	16	12	-5	-29%	45	36	-9	-21%	133	115	-18	-13%
	A49 SB to Junction NINE Retail	12	12	0	1%	12	13	1	10%	13	13	1	5%
	A49 SB to Hawleys Lane	61	55	-6	-9%	65	62	-4	-5%	85	78	-7	-8%
	A49 SB to Long Lane	0	2	1	369%	0	0	0	-	0	0	0	-
	A49 SB	138	113	-25	-18%	172	167	-5	-3%	206	200	-6	-3%
	A49 NB to Hawleys Lane	19	23	4	20%	34	51	18	52%	123	248	125	102%
A49 Winwick Road/	A49 NB to Long Lane	9	10	0	5%	13	19	6	43%	45	112	67	148%
Hawleys Lane/ A50	A49 NB	19	23	4	20%	34	51	18	52%	123	248	125	102%
Long Lane	Long Lane to A49 SB	21	85	64	313%	18	57	40	225%	28	98	70	247%
Long Lane	Long Lane to Hawleys Lane	74	116	42	57%	46	79	34	74%	55	97	43	789
	Long Lane to A49 NB	74	116	42	57%	46	79	34	74%	55	97	43	78%
	Hawleys Lane to Long Lane	9	9	1	7%	9	9	0	3%	10	10	0	-1%
	Hawleys Lane to A49 SB	9	9	1	7%	9	9	0	3%	10	10	0	-1%
	Hawleys Lane to A49 NB	5	5	0	1%	5	5	0	2%	5	5	0	09

TABLE 3.3: AVERAGE AM PEAK HOUR QUEUE LENGTH COMPARISON

- 3.3.6 The southbound movement on the A49 has the largest traffic volume and is very sensitive to any increase in delay even tiny changes to signal timings can quickly lead to queue lengths reaching back to, and beyond, M62 Junction 9. As a result, Sandy Lane West gets a disproportionate penalisation as a result of being the movement directly competing for green time with southbound traffic on the A49.
- 3.3.7 There are steadily increasing average queue lengths for all traffic on the A49 northbound and from A50 Long Lane at the southernmost junction within the model extents. This is particularly true in 2032, where the comparative increase in average queue lengths is approximately 50-125m on both approaches.
- 3.3.8 Tables 3.5 and 3.6 summarise the PM peak average and average maximum queue comparisons respectively. In much the same way as with the morning peak models, there are some more notable increases to maximum queue lengths for traffic on the eastbound off-slip from the M62 which are reasonably consistent in all scenarios. The average queue length increases are much lower though, and both are well contained within the link stacking capacity (the largest maximum being ~250m in 2032, with a stacking capacity of 315m for the link although with all average measures being considerably lower, it is unlikely that this happens often in the model.)
- 3.3.9 To the south of M62 Junction 9, there are also increases to average and maximum queue lengths on the Sandy Lane West arm of the A49 Winwick Road / A574 Cromwell Avenue / Sandy Lane West roundabout. In much the same way as is found with the AM peak models, the level of congestion and need to give the A49 priority at this junction make it very difficult to assign enough time to the side arms, leading to high levels of queuing.
- 3.3.10 Further south, there are increases to average queue lengths for northbound traffic on the A49 at the A49 Winwick Road / Hawleys Lane / A50 Long Lane junction, although the queuing here does clear, as can be seen from the lack of any latent demand at the southernmost end of the model.
- 3.3.11 Further details regarding queue length output data can be found in Appendix C.

							08:00-	09:00					
			20	22			20	27			20	32	
	Junction/ Movement	Length (		Differ	ence	Length (r		Differ	ence	Length I	(metres)		rence
				Actual				Actual				Actual	
Junction	Approach	DoMin	DoSom	(metres)	%	DoMin	DoSom	(metres)	%	DoMin	DoSom	(metres)	
	A49 NB to Winwick Park Ave	104	137	34	33%	109	141	31	29%	144	177	34	24%
	A49 NB	104	137	34	33%	109	141	31	29%	144	177	34	24%
	A49 NB to Winwick Link Rd	104	137	34	33%	109	141	31	29%	144	177	34	249
	Winwick Park Ave to A49 NB	34	35	1	3%	35	35	0	0%	37	37	0	
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	34	35	1	3%	35	35	0	0%	37	37	0	09
A49 Winwick Link	Winwick Park Ave to A49 SB	34	35	1	3%	35	35	0	0%	37	37	0	
Road/Winwick Park	A49 SB to Winwick Link Rd	181	183	2	1%	166	167	1	1%	168	154	-14	-89
Avenue	A49 SB	181	183	2	1%	166	167	1	1%	168	154	-14	-89
	A49 SB to Winwick Park Ave	181	183	2	1%	166	167	1	1%	168	154	-14	-89
	Winwick Link Rd to A49 SB	31	29	-2	-5%	41	38	-3	-8%	35	33	-2	-59
	Winwick Link Rd to Winwick Park Ave	31	29	-1	-4%	41	38	-3	-8%	36	73	37	1059
	Winwick Link Rd to A49 NB	31	29	-1	-4%	41	38	-3	-8%	36		37	1059
	A49 NB	126	180	54	43%	179	241	62	35%	239	191	-48	-209
440 November 1/	A49 NB to Delp Ln	131	185	54	42%	184	245	62	34%	243	195	-48	-209
A49 Newton Road/	A49 SB	211	220	8	4%	238	234	-4	-2%	273	302	29	109
Delph Lane	A49 SB to Delph Ln	86	100	13	15%	86	95	9	10%	95	229	133	1409
	Delph In to A49 NB	48 42	47 42	0	0% 0%	41 37	40 36	-1 -1	-2% -3%	49 45	51 46	1	49
	Delph Ln to A49 SB A49 NB to M62 WB	122	110	-12	-10%	120	133	13	11%	157	145	-12	-85
	A49 NB	122	110	-12	-10%	120	133	13	11%	157	145	-12	-89
	A49 NB to M62 EB	122	110	-12	-10%	120	133	13	11%	157	145	-12	-89
	A49 NB to A49 SB (U-Turn)	122	110	-12	-10%	120	133	13	11%	157	145	-12	-89
	M62 EB to A49 NB	95	227	132	139%	83	198	115	137%	92	198	106	1169
M62 Junction 9	M62 EB to A49 SB	95	227	132	139%	83	198	115	137%	92		106	1169
	A49 SB to M62 EB	163	165	2	1%	163	165	1	1%	163	167	4	39
	A49 SB	163	165	2	1%	163	165	1	1%	163	167	4	39
	A49 SB to M62 WB	163	165	2	1%	163	165	1	1%	163	167	4	
	M62 WB to A49 SB	79	79	1	1%	81	82	1	1%	90		40	
	M62 WB to A49 NB	79	79	1	1%	81	82	1	1%	90	130	40	459
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	Junction/ Movement	Length (	metres)	Differ	ence	Length (r		Differ	ence	Length	(metres)	Diffe	rence
Junction	Junction/ Movement Approach	Length ( DoMin	metres) DoSom	Differ Actual	rence %	Length (r DoMin		Differ Actual	ence %	Length DoMin		Diffe Actual	rence %
Junction	Approach	DoMin	DoSom	Differ Actual (metres)		DoMin	metres) DoSom	Differ Actual (metres)		DoMin	(metres) DoSom	Diffe Actual (metres)	%
Junction A49 Winwick Rd/	Approach A49 SB to Birch Ave		DoSom 0	Differ Actual (metres)			metres)	Differ Actual			(metres) DoSom O	Diffe Actual (metres)	% -
Junction A49 Winwick Rd/ Birch Ave	Approach A49 SB to Birch Ave Birch Rd to A49 SB	DoMin 0	DoSom 0	Differ Actual (metres) 0		DoMin 0 0	metres) DoSom O	Differ Actual (metres) 0	% -	DoMin 0	(metres) DoSom	Diffe Actual (metres) 0	% - 1890%
Junction A49 Winwick Rd/ Birch Ave A49 Winwick Road @	Approach A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd	DoMin 0	DoSom 0 7	Differ Actual (metres) 0		DoMin 0	metres) Do\$om O	Differ Actual (metres) 0		DoMin 0	(metres)  DoSom  0 28	Diffe Actual (metres) 0 26	% - 1890% -39%
Junction A49 Winwick Rd/ Birch Ave	Approach A49 SB to Birch Ave Birch Rd to A49 SB	DoMin 0 0	DoSom 0 7 0	Differ Actual (metres) 0 7		DoMin 0 0 4	DoSom  0 0 20	Differ Actual (metres) 0 0	% - - 405%	DoMin 0 1	(metres)  DoSom  0  28  80	Diffe Actual (metres) 0	% - 18909 -399
Junction A49 Winwick Rd/ Birch Ave A49 Winwick Road @	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 NB  A49 SB	DoMin 0 0	DoSom 0 7 0 0	Differ Actual (metres) 0 7 0	% - - -	0 0 4 4	DoSom  0 0 20	Differ Actual (metres) 0 0 16	% - - 405% 405%	DoMin 0 1 132	(metres)  DoSom  0 28 80	Diffe Actual (metres) 0 26 -52	% - 18909 -399 -399 -239
Junction A49 Winwick Rd/ Birch Ave A49 Winwick Road @	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 NB	DoMin 0 0 0 0	0 7 0 0 0 43	Differ Actual (metres) 0 7 0 0	% - - - - 33%	0 0 0 4 4 18	DoSom  0 0 20 20 6	Differ Actual (metres)  0 0 16 16 -12	% - - 405% 405% -67%	DoMin  0 1 132 132 166	DoSom  0 28 80 80 127	Diffe Actual (metres) 0 26 -52 -52 -39	% - 18909 -399 -399 -239
Junction A49 Winwick Rd/ Birch Ave A49 Winwick Road @	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 NB  A49 SB  A49 SB to Sandy Ln West	DoMin 0 0 0 0 0 32 407	0 7 0 0 0 43 431	Differ Actual (metres)  0  7  0  11  24	% - - - - 33% 6%	0 0 0 4 4 18 328	DoSom  0 0 20 20 6 392	Differ Actual (metres) 0 0 16 16 -12 64	% - - - 405% 405% -67% 20%	DoMin  0  1  132  132  166  471	DoSom  0 28 80 80 127 471	Diffe Actual (metres) 0 26 -52 -52 -39	% - 18909 -399 -399 -239 09
Junction A49 Winwick Rd/ Birch Ave A49 Winwick Road @	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 NB  A49 SB  A49 SB  A49 SB to Sandy Ln West  A49 SB	0 0 0 0 0 32 407 407	DoSom  0 7 0 0 43 431 431	Differ Actual (metres) 0 7 0 0 11 24 24	% - - - - - - - - - - - - - - - - - - -	0 0 0 4 4 18 328 328	DoSom  0 0 20 20 6 392 392	Differ Actual (metres) 0 0 16 16 -12 64 64	% 	0 1 132 132 166 471 471	DoSom  0 28 80 80 127 471	Diffe Actual (metres) 0 26 -52 -52 -39 0	% - 18909 -399 -399 -239 -239 09
Junction A49 Winwick Rd/ Birch Ave A49 Winwick Road @	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 NB  A49 SB  A49 SB to Sandy Ln West  A49 SB  A49 SB to Cromwell Ave	0 0 0 0 0 32 407 407	0 7 0 0 0 43 431 431 431	Differ Actual (metres) 0 7 0 0 11 24 24	% - - - - - - - - - - - - - - - - - - -	0 0 4 4 18 328 328 328	DoSom  0 0 20 20 6 392 392 392	Differ Actual (metres) 0 0 16 16 -12 64 64	% 	0 1 132 132 166 471 471	DoSom  0 28 80 80 127 471 471	Diffe Actual (metres) 0 26 -52 -52 -39 0 0	% - 18909 -399 -399 -239 -239 -09
Junction A49 Winwick Rd/ Birch Ave A49 Winwick Road @	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 NB  A49 SB  A49 SB to Sandy Ln West  A49 SB  A49 SB to Cromwell Ave  Cromwell Ave to A49 NB	0 0 0 0 0 32 407 407 407	0 7 0 0 0 43 431 431 431	Differ Actual (metres)  0 7 0 0 11 24 24 24	% - - - - 33% 6% 6% 6% 6%	DoMin  0 0 4 4 18 328 328 328 127	DoSom 0 0 20 20 6 392 392 392 131	Differ Actual (metres)  0  0 16 16 -12 64 64 64	**	DoMin  0 11 132 132 166 471 471 471 135	DoSom  0 28 80 80 127 471 471 471 140	Diffe Actual (metres) 0 26 -52 -52 -39 0 0 5	% 18903 399 239 239 09 09 09 49 49
Junction A49 Winwick Rd/ Birch Ave A49 Winwick Road @ Poplars Avenue	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 NB  A49 SB  A49 SB  A49 SB to Sandy Ln West  A49 SB  A49 SB to Cromwell Ave  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West	DoMin  0  0  0  0  32  407  407  407  120	DoSom  0 7 0 0 43 431 431 431 124	Differ Actual (metres) 0 7 0 0 11 24 24 24 4 4	% - - - - 33% 6% 6% 6% 6% 3%	DoMin  0 0 4 4 18 328 328 328 328 127	DoSom 0 0 20 20 6 392 392 392 131 131	Differ Actual (metres) 0 0 16 16 16 -12 64 64 4 4	**	DoMin  0 11 132 132 166 471 471 471 135	DoSom  0 28 80 80 127 471 471 140 140	Diffe Actual (metres) 0 26 -52 -52 -39 0 0 0 5 5 5	%
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 SB  A49 SB to Sandy Ln West  A49 SB  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West  Cromwell Ave to Sandy Ln West  Cromwell Ave to Sandy Ln West	DoMin  0 0 0 0 32 407 407 407 120 120	0 7 0 0 0 43 431 431 431 124 124	Differ Actual (metres) 0 7 7 0 0 111 24 24 24 4 4 4	% - - - - 33% 6% 6% 6% 3% 3%	DoMin  0 0 4 4 18 328 328 328 127 127	DoSom 0 0 20 20 6 392 392 392 131 131	Differ Actual (metres) 0 0 16 16 -12 64 64 64 4 4 4	% 405% 405% -67% 20% 20% 3% 3% 3%	DoMin  0 11 132 132 166 471 471 471 135 135	DoSom  0 28 80 80 127 471 471 140 140	Diffe Actual (metres) 0 26 -52 -52 0 0 0 0 5 5 5 5	%
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 SB to Woburn Rd  A49 SB A49 SB A49 SB to Sandy Ln West A49 SB Cromwell Ave to A49 SB Cromwell Ave to Sandy Ln West Cromwell Ave to A49 SB Cromwell Ave to Cromwell Ave (U-turn)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 7 7 0 0 0 43 431 431 431 124 124 124 124 124	Differ Actual (metres) 0 7 0 0 0 111 24 24 24 4 4 4 4 4 23	% 33% - 6% - 6% - 3% - 3% - 3%	DoMin  0 0 4 4 18 328 328 328 127 127 127	DoSom 0 0 20 20 6 392 392 131 131 131 131	Differ Actual (metres)  0 0 16 16 16 -12 64 64 4 4	% 405% 405% -67% 20% 20% 3% 3% 3% 3%	0 1 1 1 3 2 1 3 2 1 3 2 1 4 7 1 1 1 3 5 1	0 28 80 80 127 471 471 471 140 140 144	Diffe Actual (metres) 0 26 -52 -52 0 0 0 0 0 5 5 5 5 5	% - 18903 - 399 - 399 - 239 09 09 49 49 49 49 69
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 NB  A49 SB  A49 SB to Sandy Ln West  A49 SB  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West  Cromwell Ave to Sandy Ln West  Cromwell Ave to A49 SB  Cromwell Ave to A49 SB  Cromwell Ave to Cromwell Ave (U-turn)  A49 NB	0 0 0 0 32 407 407 407 120 120 120 120 85	00 7 7 0 0 0 43 431 431 124 124 124 108	Differ Actual (metres) 0 7 0 0 0 111 24 24 24 4 4 4 4 4 23	% 33% - 6% - 6% - 3% - 3% - 3% -	DoMin  0 0 4 4 18 328 328 328 127 127 127 103	DoSom  0 0 20 20 392 392 392 391 131 131 131	Differ Actual (metres)  0 0 166 166 -12 64 644 4 4 4 18	% 405% 405% -67% 20% 20% 3% 3% 3% 3%	0 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	DoSom	Diffe Actual (metres) 0 266 -522 -529 0 0 0 5 5 5 5 8	%
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 SB  A49 SB  A49 SB to Sandy Ln West  A49 SB  A49 SB to Cromwell Ave  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West  Cromwell Ave to Sandy Ln West  Cromwell Ave to Cromwell Ave (U-turn)  A49 NB  A49 NB to Sandy Ln West	DoMin  0 0 0 32 407 407 120 120 120 120 85	00 7 7 0 0 0 433 431 431 124 124 124 108 108 108	Differ Actual (metres) 0 7 7 0 0 0 111 24 4 24 4 4 4 4 4 4 23 23 23	% 33% 6% 6% 6% 3% 3% 3% 27% 27%	DoMin  0 0 4 4 18 328 328 328 127 127 127 127 103 103	DoSom 0 0 200 200 66 392 392 131 131 131 131 121 121	Differ Actual (metres) 0 0 16 16 16 -12 64 64 4 4 4 4 18 18 18	%	00Min 0 1 132 136 166 471 471 471 135 135 135 135 133	DoSom	Diffe Actual (metres) 0 266 -522 -52 -399 0 0 5 5 5 8 8	%
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 SB  A49 SB  A49 SB to Sandy Ln West  A49 SB  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West  Cromwell Ave to A49 SB  Cromwell Ave to A49 SB  Cromwell Ave to A49 SB  Cromwell Ave to Cromwell Ave (U-turn)  A49 NB to Sandy Ln West  A49 NB to Cromwell Ave West  A49 NB to Cromwell Ave	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 77 00 00 433 431 431 431 124 124 124 108 108 108 108	Differ Actual (metres) 0 7 7 0 0 0 11 1 24 4 4 4 4 4 23 3 23 23	%	DoMin  0 0 4 4 18 328 328 328 127 127 127 127 103 103 103	DoSom  0 0 20 20 6 392 392 392 131 131 131 131 121 121	Differ Actual (metres) 0 0 16 16 16 -12 64 4 4 4 4 18 18 18 18	% 405% 405% -67% 20% 20% 3% 3% 3% 17% 17% 17%	DoMin  0 13 132 132 166 471 471 135 135 135 135 133 133	DoSom	Diffe Actual (metres) 0 266 -522 -399 0 0 55 55 88 88	%
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 SB  A49 SB  A49 SB to Sandy Ln West  A49 SB  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West  Cromwell Ave to Sandy Ln West  Cromwell Ave to Cromwell Ave (U-turn)  A49 NB  A49 NB to Sandy Ln West  A49 NB to Sandy Ln West  A49 NB to Cromwell Ave Sandy Ln West  Sandy Ln West to A49 NB	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 7 0 0 0 43 431 431 431 124 124 124 108 108 108 292	Differ Actual (metres) 0 7 0 0 11 24 24 4 4 4 23 23 23 178	% 33% - 6% - 6% - 3% - 3% - 3% -	DoMin  0 0 4 4 18 328 328 328 328 127 127 127 127 103 103 103	DoSom  0 0 20 20 6 392 392 392 131 131 131 121 121 121	Differ Actual (metres) 0 0 166 16 -12 64 64 4 4 4 18 18 18 171	% 405% 405% -67% 20% 20% 3% 3% 3% 17% 17% 140%	0 1 1 1 3 2 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 3 1 3 3 3 1 3 3 3 2 5 2 2 1 3 1 3 3 1 3 3 3 1 3 3 3 2 5 2 5 2	DoSom	Diffe Actual (metres) 0 26 -522 -59 0 0 0 5 5 5 5 8 8 8 8 8 4 4 4	** - 18909 -399 -399 -239 -039 -039 -039 -049 -449 -449 -656 -659 -659 -188
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 SB to Woburn Rd  A49 SB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn)	DoMin  0 0 0 0 32 407 407 407 120 120 120 121 120 121 121 121 121 121	0 0 7 0 0 0 43 431 431 431 124 124 124 108 108 292 292	Differ Actual (metres) 0 7 0 0 111 24 24 4 4 4 4 3 3 3 178 178	% 33% - 6% - 6% - 3% - 3% - 3% -	DoMin  0 0 4 4 18 328 328 328 328 328 127 127 127 127 103 103 103 122 122	DoSom  0 0 20 20 6 392 392 392 391 131 131 121 121 121 294	Differ Actual (metres)  0 0 16 16 -12 64 64 4 4 4 18 18 18 171 171	% 405% 405% -67% 20% 20% 3% 3% 3% 17% 17% 140% 140%	DoMin  0 11 132 132 166 471 471 471 135 135 135 135 135 252 252	Metres)  DoSom  0 28 800 80 127 471 471 140 140 140 141 141 141 296 296	Diffe Actual (metres) 0 266 -522 -52 -399 0 0 0 5 5 5 8 8 8 44 44 44	** - 18909 - 399 - 399 - 239 - 09 - 09 - 09 - 49 - 49 - 49 - 49 - 69 - 63 - 63 - 189 - 188 - 188
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 SB to Woburn Rd  A49 SB  A49 SB  A49 SB to Sandy Ln West  A49 SB  Cromwell Ave to A49 SB  Cromwell Ave to Sandy Ln West  Cromwell Ave to Cromwell Ave (U-turn)  A49 NB  A49 NB to Sandy Ln West  A49 NB to Cromwell Ave  Sandy Ln West to A49 NB  Sandy Ln West to Sandy Ln (U-turn)  Sandy Ln West to Sandy Ln (U-turn)	DoMin  0 0 0 32 407 407 407 120 120 120 114 114 114	00 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Differ Actual (metres) 0 7 7 0 0 0 111 24 24 24 4 4 4 4 23 23 23 178 178 178	%	DoMin  0 0 4 4 18 328 328 328 328 127 127 127 127 123 103 103 103 122 122	DoSom  0 0 20 20 392 392 392 391 131 131 121 121 121 224 294	Differ Actual (metres)  0 0 166 166 -12 644 644 4 4 18 18 18 18 171 171	% 405% 405% 20% 20% 3% 3% 3% 17% 17% 140% 140% 140%	DoMin  0 11 132 132 166 471 471 471 135 135 135 135 135 252 252	0 28 80 80 80 127 471 471 471 140 140 141 141 141 1296 296 296	Diffe Actual (metres)  0 26 -52 -52 -39 0 0 0 55 55 8 8 8 8 8 8 444 44	** - 18909 -399 -399 -239 -039 -039 -049 -49 -49 -49 -69 -63 -63 -63 -183 -183 -185 -185
Junction  A49 Winwick Rod/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd  A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Sandy Ln West Cromwell Ave to A49 SB Cromwell Ave to A49 SB Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Cromwell Ave Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave	DoMin  0 0 0 0 32 407 407 407 120 120 120 120 121 114 114 114	00 77 00 0 43 431 4311 124 124 124 128 108 108 292 292 292 292 167 167	Differ Actual (metres) 0 7 0 0 0 0 111 244 24 4 4 4 4 4 23 23 23 178 178 178 178	%	DoMin  0 0 4 4 18 328 328 328 327 127 127 127 127 127 127 127 127 127 1	DoSom  0 0 20 20 6 392 392 392 131 131 131 121 121 121 294 294 294 173 173	Differ Actual (metres)  0 0 166 16 -12 644 44 4 18 18 171 171 171 171 66	% 405% 405% -67% 20% 20% 3% 3% 17% 17% 140% 140% 140%	DoMin  0 11 132 132 166 471 471 471 135 135 135 135 252 252 252 252	0 28 80 80 80 127 471 471 471 140 140 141 141 141 1296 296 296	Diffe Actual (metres) 0 0 266 -522 -399 0 0 0 5 5 5 5 8 8 8 8 4 4 4 4 4 4 4 4 4 4 4 4	** - 18903 -399 -399 -239 -039 -039 -039 -04 -04 -05 -06 -06 -06 -07 -07 -07 -07 -07 -07 -07 -07 -07 -07
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road @	Approach  A49 SB to Birch Ave  Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 SB  A49 SB to Sandy Ln West  A49 SB  A49 SB to Cromwell Ave  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West  Cromwell Ave to Cromwell Ave (U-turn)  A49 NB  A49 NB to Sandy Ln West  A49 NB to Sandy Ln West  A49 NB to Sandy Ln West  Sandy Ln West to A49 NB  Sandy Ln West to A49 SB  Sandy Ln West to Cromwell Ave  A49 NB  A49 NB	DoMin  0 0 0 0 32 407 407 120 120 120 120 140 141 114 114 114 114 114 114 1147 147	00 7 7 00 0 43 431 431 431 124 124 124 108 108 292 292 292 292 167 167 27	Differ Actual (metres) 0 7 0 0 111 244 24 4 4 4 133 23 23 178 178 178 20 0 0 0	%	DoMin  0 0 4 4 18 328 328 328 328 127 127 127 127 122 122 122 122 122 168 168 27	DoSom  0 0 20 20 6 392 392 392 131 131 131 121 121 121 121 121 121 12	Differ Actual (metres) 0 0 166 16 -12 644 644 4 18 18 18 171 171 171 171 171 171 0 6 6	% 405% 405% -67% 20% 20% 3% 3% 3% 17% 17% 140% 140% 140% 3% 3% 0%	DoMin  0 11 1322 1322 1666 4711 471 1355 1355 1355 252 252 252 252 252 252 252 252 254 274 174	DoSom	Diffe Actual (metres) 0 26 -522 -399 0 0 0 5 5 5 5 8 8 8 44 44 44 44 44 44 44 44 44 44 44	** - 18909 -399 -399 -239 09 09 499 499 499 499 1889 1889 -199 -119
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd  A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 SB to Sandy Ln West A49 NB to Sandy Ln West A49 NB to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB to Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB to University to A49 SB A49 NB to Junction NINE Retail Junction NINE Retail to A49 SB Junction NINE Retail to A49 SB	DoMin  0 0 0 0 32 407 407 407 120 120 120 140 141 114 114 114 147 147 27	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Differ Actual (metres) 0 7 0 0 0 0 111 244 24 4 4 4 4 4 23 23 23 178 178 178 20 0 0 0 0	%	DoMin  0 0 4 4 18 328 328 328 328 328 127 127 127 129 103 103 103 122 122 122 122 168 168 27 25	DoSom  0 0 20 20 6 392 392 392 391 131 131 121 121 121 294 294 294 173 173 173	Differ Actual (metres)  0 0 16 16 -12 64 64 4 4 4 18 18 171 171 171 171 0 6 6 0 0	**  405%  405%  405%  -67%  20%  20%  3%  3%  3%  17%  140%  140%  140%  3%  3%  0%	DoMin  0 11 132 132 166 471 471 471 471 135 135 135 135 125 135 137 137 137 137 138 139 139 139 139 139 139 139 139 139 139	Metres)  DoSom  0 288 800 80 127 471 471 140 140 140 141 141 296 296 296 171 171 34	Diffe Actual (metres) 0 26 -522 -399 0 0 0 5 5 5 5 8 8 8 44 4 4 4 4 4 4 4 4 4 4 4	** - 18909 - 399 - 399 - 239 - 039 - 039 - 049 - 449 - 449 - 459 - 659 - 188 - 188 - 189 - 119 - 119 - 119
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road @	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd  A49 NB  A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB A49 NB to Junction NINE Retail Junction NINE Retail to A49 SB Junction NINE Retail to A49 SB Junction NINE Retail to A49 SB	DoMin  0 0 0 0 32 407 407 407 120 120 120 140 85 85 114 114 114 114 114 147 277 25	00 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Differ Actual (metres) 0 7 7 0 0 0 111 244 244 4 4 4 4 4 178 178 178 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%	DoMin  0 0 4 4 18 328 328 328 328 328 127 127 127 122 122 122 122 168 168 27 25 206	DoSom 0 0 0 20 20 392 392 392 391 131 131 211 221 224 294 294 173 173 173 275 218	Differ Actual (metres)  0 0 166 166 -12 644 644 4 4 18 18 18 171 171 171 6 6 0 0 0	% 405% 405% 405% 20% 20% 20% 3% 3% 3% 17% 17% 140% 140% 140% 340% 0% 6%	DoMin  0 11 132 132 166 471 471 471 135 135 135 135 125 252 252 252 2752 174 174 300 28	Metres)  DoSom  0 28 800 80 127 471 471 471 140 140 140 296 296 296 171 344 31	Diffe Actual (metres)  0 26 -52 -52 -39 0 0 0 0 55 55 88 88 44 44 -42 -23 3 3 -13	**
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd  A49 NB  A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West  Cromwell Ave to Sandy Ln West Cromwell Ave to Sandy Ln West Cromwell Ave to Sandy Ln West Cromwell Ave to Tomwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Cromwell Ave A49 NB A49 NB to Junction NINE Retail Junction NINE Retail to A49 NB Junction NINE Retail to A49 NB A49 SB A49 SB A49 SB A49 SB A49 SB A49 SB to Junction NINE Retail	DoMin  0 0 0 32 407 407 407 120 120 120 140 141 141 144 147 147 25 140 54	DoSom  0 7 0 0 43 431 431 124 124 124 108 108 108 108 292 292 292 292 167 167 25 127 58	Differ Actual (metres) 0 0 7 7 0 0 0 111 244 244 4 4 4 4 23 23 178 178 178 20 20 0 0 -13 3 3	%	DoMin  0 0 4 4 18 328 328 328 328 127 127 127 127 122 122 122 122 168 168 27 25 206 63	DoSom  0 0 20 20 6 392 392 131 131 131 121 121 294 294 294 294 173 27 25 218	Differ Actual (metres)  0 0 16 16 16 -12 64 4 4 4 4 18 18 171 171 171 6 6 6 0 12 3 3	**  405% 405% -67% 20% 20% 20% 3% 3% 37% 17% 17% 140% 140% 140% 30% 00% 6% 4%	DoMin  0 11 132 132 166 471 471 471 135 135 135 135 125 252 252 252 252 274 174 174 28 361 69	DoSom	Diffe Actual (metres) 0 266 -522 -52 -399 0 0 0 5 5 5 8 8 8 44 44 44 -22 -22 3 3 3 -13	** - 18909 -399 -399 -239 -039 -039 -039 -049 -449 -449 -189 -189 -191 -129 -449 -559
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 SB  A49 SB to Sandy Ln West  A49 SB to Cromwell Ave  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West  Cromwell Ave to Cromwell Ave (U-turn)  A49 NB to Sandy Ln West  A49 NB to Cromwell Ave (U-turn)  A49 NB to Sandy Ln West  A49 NB to Sandy Ln West  A49 NB to Sandy Ln West  A49 NB to Cromwell Ave  Sandy Ln West to A49 NB  Sandy Ln West to A49 NB  Sandy Ln West to A49 SB  Sandy Ln West to Cromwell Ave  A49 NB  A49 NB to Junction NINE Retail  Junction NINE Retail to A49 SB  Junction NINE Retail to A49 NB  A49 SB  A49 SB to Junction NINE Retail  A49 SB to Hawleys Lane	DoMin  0 0 0 0 0 32 407 407 120 120 120 121 120 120 120 120 120 120	00 7 7 00 0 43 431 431 124 124 124 128 108 108 108 106 292 292 292 292 292 292 292 292 292 29	Differ Actual (metres) 0 0 7 7 0 0 11 24 4 4 4 4 4 4 4 18 178 178 178 20 0 0 0 1-13 3 3 -19	%	DoMin  0 0 4 4 18 328 328 328 328 127 127 127 127 127 122 122 122 122 168 168 27 25 206 63 312	DoSom  0 0 20 20 6 392 392 392 131 131 131 121 294 294 294 294 173 173 27 25 218 666 311	Differ Actual (metres)  0 0 166 166 -122 664 44 4 4 4 188 188 171 171 171 171 171 171 171 171	% 405% 405% 405% 20% 20% 20% 3% 3% 3% 17% 17% 140% 140% 140% 340% 0% 6%	DoMin  0  132 132 166 471 471 173 135 135 135 135 137 137 137 138 138 138 138 138 138 138 138 138 138	DoSom	Diffe Actual (metres) 0 0 266 -522 -399 0 0 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	** - 18909 - 399 - 239 - 099 - 999 - 449 - 449 - 449 - 659 - 639 - 189 - 189 - 191 - 191 - 192 - 449 - 559 - 193 - 194 - 559
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Approach  A49 SB to Birch Ave Birch Rd to A49 SB  A49 NB to Woburn Rd  A49 SB  A49 SB  A49 SB to Sandy Ln West  A49 SB  A49 SB to Cromwell Ave  Cromwell Ave to A49 NB  Cromwell Ave to Sandy Ln West  A49 NB to Cromwell Ave  Sandy Ln West to A49 NB  Sandy Ln West to A49 SB  Sandy Ln West to Cromwell Ave  A49 NB  A49 NB  A49 NB  A49 NB to Junction NINE Retail  Junction NINE Retail to A49 SB  Junction NINE Retail to A49 NB  A49 SB to Junction NINE Retail	DoMin  0 0 0 0 32 407 407 120 120 120 120 1407 147 147 147 147 147 147 149 140 154 302	00 77 00 0 43 431 431 124 124 124 128 108 108 108 292 292 167 167 27 25 127 588 283 74	Differ Actual (metres) 0 7 7 0 0 111 244 244 4 4 4 4 4 4 4 178 178 178 178 178 178 178 178 178 179 179 179 179 179 179 179 179 179 179	%	DoMin  0 0 4 4 18 328 328 328 328 127 127 127 127 122 122 122 122 122 122	DoSom  0 0 20 20 6 392 392 392 131 131 131 121 294 294 294 294 274 275 285 218	Differ Actual (metres)  0 0 166 16 -12 644 644 4 4 4 18 18 171 171 171 171 171 171 171 171 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**  405%  405%  405%  -67%  20%  20%  3%  3%  3%  17%  140%  140%  140%  3%  3%  0%  0%  6%  4%  0%	DoMin  0 11 132 132 166 471 471 471 135 135 135 135 137 137 138 138 252 252 252 252 174 174 30 28 361 699 328	DoSom	Diffe Actual (metres) 0 0 266 -522 -399 0 0 0 0 55 5 5 58 8 8 8 8 44 444 -42 -22 3 3 3 3 -13 -13 -2 0 0	**
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd  A49 SB A49 SB to Sandy Ln West A49 SB to Sandy Ln West A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Sandy Ln West Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB to Junction NINE Retail Junction NINE Retail to A49 SB Junction NINE Retail to A49 NB A49 SB to Junction NINE Retail A49 SB to Hawleys Lane A49 SB to Long Lane A49 SB to Long Lane	DoMin  0 0 0 0 32 407 407 120 120 120 120 140 141 144 114 114 114 1147 147 147 27 25 140 302 325	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Differ Actual (metres) 0 7 0 0 0 111 244 244 4 4 4 4 4 178 178 178 178 178 178 178 178 178 178	%	DoMin  0 0 4 4 18 328 328 328 328 127 127 127 127 122 122 122 122 122 122	DoSom 0 0 0 20 20 6 392 392 392 131 131 131 121 121 121 121 121 121 12	Differ Actual (metres)  0 0 166 166 -12 644 644 4 4 18 18 18 171 171 171 171 171 171 171 171 171 171	**  405%  405%  405%  -67%  20%  3%  3%  3%  3%  17%  140%  140%  140%  3%  3%  0%  6%  4%  -1%	DoMin  0 11 1322 1322 1666 4711 471 471 1355 1355 1352 252 252 252 252 252 252 252 252 252	DoSom	Diffe Actual (metres) 0 26 -522 -399 0 0 0 5 5 5 5 5 5 5 5 2 5 5 5 6 6 8 8 8 8 8 4 4 4 4 4 4 4 4 4 4 4 4 4	**
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd  A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to A49 SB Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Sandy Ln West Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB to Junction NINE Retail Junction NINE Retail to A49 SB Junction NINE Retail to A49 SB Junction NINE Retail to A49 SB A49 SB A49 SB to Junction NINE Retail A49 SB A49 SB to Hawleys Lane A49 SB A49 SB A49 SB A49 SB A49 NB to Hawleys Lane	DoMin  0 0 0 0 32 407 407 120 120 120 121 140 114 114 114 117 27 25 140 54 302 325 175	DoSom  0 7 0 0 43 431 431 431 124 124 124 128 108 292 292 292 292 292 292 292 397 58 283 74 316 219	Differ Actual (metres)  0 7 0 0 0 0 111 244 244 44 44 44 23 23 23 178 178 20 0 0 0 0 -13 3 3 -19 42 -9 9 43	%	DoMin  0 0 4 4 18 328 328 328 328 328 127 127 127 128 103 103 103 122 122 122 122 168 168 27 25 206 63 312 0 334 233	Dosom  0 0 20 20 6 392 392 392 392 131 131 131 121 121 121 121 121 121 12	Differ Actual (metres)  0 0 166 166 -12 644 644 4 4 18 18 18 171 171 171 171 171 171 171 17	**  405%  405%  405%  -67%  20%  20%  3%  3%  3%  17%  140%  140%  140%  3%  0%  0%  6%  4%  0%  -1%  30%	DoMin  0 11 132 132 166 471 471 471 471 135 135 135 135 135 135 135 135 135 13	DoSom	Diffe Actual (metres) 0 26 -522 -599 0 0 0 0 55 5 5 8 8 8 444 444 444 -22 -33 3 3 -13 -37 2 0 0 4	- 1890% -39% -39% -23% -0% -0% -0% -4% -4% -18% -18% -11% -11% -5% -11% -11% -11% -11% -11%
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 SB to Woburn Rd  A49 SB A49 SB to Sandy Ln West A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 SB Cromwell Ave to Sandy Ln West Cromwell Ave to A49 SB Cromwell Ave to Cromwell Ave (U-turn) A49 SB A49 SB to Cromwell Ave Sandy Ln West to A49 SB Sandy Ln West to A49 SB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 SB Sandy Ln West to Cromwell Ave A49 SB Junction NINE Retail to A49 SB A49 SB to Junction NINE Retail A49 SB A49 SB to Long Lane A49 SB A49 SB to Long Lane A49 SB to Long Lane	DoMin  0 0 0 0 32 407 407 407 120 120 120 140 141 114 114 114 147 177 25 140 54 302 325 75	DoSom  0 7 0 0 43 431 431 431 124 124 124 129 167 167 27 25 127 58 283 3166 219 88	Differ Actual (metres) 0 0 7 7 0 0 0 111 244 244 4 4 4 4 4 23 3 23 178 178 178 20 0 0 1-13 3 3 -19 44 2 9 43 13 13	%	DoMin  0 0 4 4 18 328 328 328 328 328 127 127 127 128 103 103 103 102 122 122 122 122 168 168 168 27 25 206 63 312 0 334 293 108	DoSom	Differ Actual (metres)  0 0 0 16 16 16 -12 64 4 4 4 4 4 18 8 171 171 171 6 6 6 0 12 2 3 3 -1 0 0 6 9	**  405%  405%  405%  -67%  20%  20%  3%  3%  3%  17%  17%  140%  140%  140%  3%  0%  6%  4%  0%  -1%  30%  64%	DoMin  0 11 132 132 166 471 471 471 471 135 135 135 135 135 135 135 135 135 13	DoSom	Diffe Actual (metres) 0 266 -522 -399 0 0 0 55 55 88 84 44 44 -22 -22 -33 3-13 -33 -13 -35 -150	**
Junction  A49 Winwick Rd/ Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road @ Junction NINE Retail Park	Approach  A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd  A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to A49 SB Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Sandy Ln West Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB to Junction NINE Retail Junction NINE Retail to A49 SB Junction NINE Retail to A49 SB Junction NINE Retail to A49 SB A49 SB A49 SB to Junction NINE Retail A49 SB A49 SB to Hawleys Lane A49 SB A49 SB A49 SB A49 SB A49 NB to Hawleys Lane	DoMin  0 0 0 0 32 407 407 120 120 120 121 140 114 114 114 117 27 25 140 54 302 325 175	DoSom  0 7 0 0 43 431 431 431 124 124 124 128 108 292 292 292 292 292 292 292 397 58 283 74 316 219	Differ Actual (metres)  0 0 7 7 0 0 11 24 4 4 4 4 4 4 4 4 4 1 4 1 1 1 1 1 1	%	DoMin  0 0 4 4 18 328 328 328 328 328 127 127 127 128 103 103 103 122 122 122 122 168 168 27 25 206 63 312 0 334 233	Dosom  0 0 20 20 6 392 392 392 392 131 131 131 121 121 121 121 121 121 12	Differ Actual (metres)  0 0 166 166 -12 644 644 4 4 18 18 18 171 171 171 171 171 171 171 17	**  405%  405%  405%  -67%  20%  20%  3%  3%  3%  17%  140%  140%  140%  3%  0%  0%  6%  4%  0%  -1%  30%	DoMin  0 11 132 132 166 471 471 471 471 135 135 135 135 135 135 135 135 135 13	DoSom	Diffe Actual (metres) 0 26 -522 -599 0 0 0 0 55 5 5 8 8 8 444 444 444 -22 -33 3 3 -13 -37 2 0 0 4	** - 1890% -39% -39% -39% -23% -0% -23% -24% -4% -4% -11% -11% -11% -11% -11% -11%

TABLE 3.4: AVERAGE MAXIMUM AM PEAK HOUR QUEUE LENGTH COMPARISON

-10

14%

14%

6%

6%

-15%

18%

18%

8%

8%

7%

65

7% 7%

-5% -5%

-6%

Long Lane

Long Lane to Hawleys Lane Long Lane to A49 NB

Hawleys Lane to Long Lane

Hawleys Lane to A49 SB

Hawleys Lane to A49 NB

							17:00	-18:00					
			20	22			20	127			20	32	
	Junction/ Movement	Length (	metres)	Differ	ence	Length (	(metres)	Diffe	rence	Length	(metres)	Diffe	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	
	A49 NB to Winwick Park Ave	11	12	0	3%	12	13	1	7%	13	20	7	53%
	A49 NB	11	12	0	3%	12	13	1	7%	13	20	7	53%
	A49 NB to Winwick Link Rd	11	12	0	3%	12	13	1	7%	13	20	7	53%
	Winwick Park Ave to A49 NB	1	3	2	193%	1	1	0	-1%	1	4	2	167%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	1	3	2	193%	1	1	0	-1%	1	4	2	167%
A49 Winwick Link	Winwick Park Ave to A49 SB	1	3	2	193%	1	1	0	-1%	1	4	2	167%
Road/Winwick Park	A49 SB to Winwick Link Rd	18	20	2	11%	20		1	6%	22	28	6	30%
Avenue	A49 SB	18	20	2	11%	20	21	1	6%	22	28	6	30%
	A49 SB to Winwick Park Ave	18	20	2	11%	20	21	1	6%	22	28	6	30%
	Winwick Link Rd to A49 SB	16	26	10	64%	8	4	-4	-47%	10	63	53	514%
	Winwick Link Rd to Winwick Park Ave	4	11	7	166%	4	5	1	18%	6	39	33	568%
	Winwick Link Rd to A49 NB	4	11	7	166%	4	5	1	18%	6	39	33	568%
	A49 NB	29	31	2	7%	30			32%	39		6	15%
	A49 NB to Delp Ln	29	31	2	7%	29	39	10	33%	39	44	6	15%
A49 Newton Road/	A49 SB	92	114	23	25%	62	58	-4	-7%	86	206	120	139%
Delph Lane	A49 SB to Delph Ln	11	11	-1	-6%	10	10	0	1%	11	49	38	356%
	Delph Ln to A49 NB	52	70	18	36%	88	89	1	1%	100	100	0	0%
	Delph Ln to A49 SB	49	67	18	37%	84	85	1	1%	97	97	0	0%
	A49 NB to M62 WB	12	13	1	9%	12	12	0	2%	13	16	3	24%
	A49 NB	12	13	1	9%	12	12	0	2%	13	16	3	24%
	A49 NB to M62 EB	12	13	1	9%	12	12	0	2%	13	16	3	24%
	A49 NB to A49 SB (U-Turn)	12	13	1	9%	12	12	0	2%	13	16	3	24%
	M62 EB to A49 NB	17	51	34	195%	21	50	29	142%	21	62	41	197%
M62 Junction 9	M62 EB to A49 SB	17	51	34	195%	21		29	142%	21	62	41	197%
	A49 SB to M62 EB	60	69	10	16%	57	58	1	2%	62	82	20	32%
	A49 SB	60	69	10	16%	57			2%	62		20	32%
	A49 SB to M62 WB	60	69	10	16%	57	58	1	2%	62	82	20	32%
	M62 WB to A49 SB	17	20	3	19%	12	12	1	6%	12	25	13	111%
	M62 WB to A49 NB	17	20	3	19%	12	12	1	6%	12	25	13	111%

			20	22			20	127			20	32	
	Junction/ Movement	Length (	metres)	Differ	ence	Length (	metres)	Differ	rence	Length (	metres)	Diffe	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0 -		8	0	-8	-100%	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0 -		0	0	0	-	0	0	0	-
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0 -		0	0	0	-	0	0	0	-
Poplars Avenue	A49 NB	0	0	0 -		0	0	0	-	0	0	0	-
ropiais Aveilue	A49 SB	145	158	13	9%	48	50	2	3%	81	163	82	101%
	A49 SB to Sandy Ln West	378	367	-10	-3%	288	331	43	15%	347	394	47	14%
	A49 SB	378	367	-10	-3%	288	331	43	15%	347	394	47	14%
	A49 SB to Cromwell Ave	378	367	-10	-3%	288	331	43	15%	347	394	47	14%
	Cromwell Ave to A49 NB	40	32	-8	-21%	53	59	6	10%	49	44	-5	-9%
	Cromwell Ave to Sandy Ln West	62	52	-10	-17%	76	89	13	17%	78	73	-5	-6%
A49 Winwick Road/	Cromwell Ave to A49 SB	62	52	-10	-17%	76	89	13	17%	78	73	-5	-6%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	62	52	-10	-17%	76	89	13	17%	78	73	-5	-6%
Avenue/ Sandy Lane	A49 NB	22	22	0	2%	28	34	5	19%	54	61	7	12%
West	A49 NB to Sandy Ln West	22	22	0	2%	28	34	5	19%	54	61	7	12%
	A49 NB to Cromwell Ave	22	22	0	2%	28	34	5	19%	54	61	7	12%
	Sandy Ln West to A49 NB	17	181	164	984%	32	260	228	708%	63	263	200	316%
	Sandy Ln West to Sandy Ln (U-turn	17	181	164	984%	32	260	228	708%	63	263	200	316%
	Sandy Ln West to A49 SB	17	181	164	984%	32	260	228	708%	63	263	200	316%
	Sandy Ln West to Cromwell Ave	17	181	164	984%	32	260	228	708%	63	263	200	316%
	A49 NB	31	32	1	2%	39	41	2	6%	44	43	-1	-1%
A49 Winwick Road @	A49 NB to Junction NINE Retail	31	32	1	2%	39	41	2	6%	4.4	43	-1	-1%
Junction NINE Retail	Junction NINE Retail to A49 SB	45	100	55	122%	30	63	33	110%	29	39	10	33%
Park	Junction NINE Retail to A49 NB	42	97	55	130%	28	61	33	119%	27	36	10	36%
Fair	A49 SB	304	273	-31	-10%	289	215	-75	-26%	273	227	-45	-17%
	A49 SB to Junction NINE Retail	41	14	-27	-66%	11	17	6	51%	13	15	2	18%
	A49 SB to Hawleys Lane	39	39	0	-1%	28	36	8	28%	34	32	-3	-8%
	A49 SB to Long Lane	34	107	73	218%	46	56	10	23%	24	42	18	77%
	A49 SB	255	257	1	0%	245	246	2	1%	246	244	-2	-1%
	A49 NB to Hawleys Lane	31	54	22	70%	43	112	69	161%	109	353	245	225%
A49 Winwick Road/	A49 NB to Long Lane	8	11	3	30%	10	36	26	251%	31	234	203	655%
Hawleys Lane/ A50	A49 NB	31	54	22	70%	43	112	69	161%	109	353	245	225%
Long Lane	Long Lane to A49 SB	8	22	14	169%	11	34	23	213%	19	54	35	185%
Long Lane	Long Lane to Hawleys Lane	30	38	8	28%	32	48	17	52%	49	80	32	65%
	Long Lane to A49 NB	30	38	8	28%	32	48	17	52%	49	80	32	65%
	Hawleys Lane to Long Lane	31	43	12	37%	60	75	15	25%	74	82	8	11%
	Hawleys Lane to A49 SB	31	43	12	37%	60	75	15	25%	74	82	8	11%
	Hawleys Lane to A49 NB	24	29	6	24%	42	57	16	37%	58	64	6	10%

TABLE 3.5: AVERAGE PM PEAK HOUR QUEUE LENGTH COMPARISON

							17:00-	18:00					
			20	22			20				20	32	
	Junction/ Movement	Length (		Diffe	ence	Length (i		27 Differe	ence	Length (		Differ	rence
Junction	Approach	DoMin	DoSom	Actual	%	DoMin	DoSom	Actual	%	DoMin	DoSom	Actual	%
	A49 NB to Winwick Park Ave	98	107	(metres)	9%	98	119	(metres)	21%	120	152	(metres) 32	27
	A49 NB	98	107	9	9%	98	119	21	21%	120	152	32	27
	A49 NB to Winwick Link Rd	98	107	9	9%	98	119	21	21%	120	152	32	27
	Winwick Park Ave to A49 NB	12	26	14	123%	11	12	2	14%	13	27	14	104
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	12	26	14	123%	11	12	2	14%	13	27	14	104
A49 Winwick Link	Winwick Park Ave to A49 SB	12	26	14	123%	11	12	2	14%	13	27	14	104
Road/Winwick Park	A49 SB to Winwick Link Rd	75	92	17	23%	79	90	11	13%	88	106	18	20
Avenue	A49 SB	75 75	92 92	17 17	23%	79 79	90 90	11	13% 13%	88	106 106	18 18	20
	A49 SB to Winwick Park Ave Winwick Link Rd to A49 SB	197	247	49	25%	133	101	-32	-24%	183	364	181	99
	Winwick Link Rd to Winwick Park Ave	156	72	-84	-54%	60	74	14	22%	73	175	102	141
	Winwick Link Rd to A49 NB	156	72	-84	-54%	60	74	14	22%	73	175	102	141
	A49 NB	189	228	39	20%	191	301	110	58%	249	279	30	12
	A49 NB to Delp Ln	194	233	39	20%	195	305	110	56%	254	284	30	12
A49 Newton Road/	A49 SB	335	372	37	11%	253	264	11	4%	327	440	114	35
Delph Lane	A49 SB to Delph Ln	92	70	-23	-24%	64	64	0	0%	65	179	113	173
	Delph Ln to A49 NB	179	185	6	3%	188	187	-1	0%	202	187	-14	-7
	Delph Ln to A49 SB	175	181	6	3%	184	183	-1	0%	198	183	-14	-7
	A49 NB to M62 WB A49 NB	116 116	128 128	12 12	10% 10%	113	117 117	4	4% 4%	112	130 130	18 18	16
	A49 NB to M62 EB	116	128	12	10%	113	117	4	4%	112	130	18	16
	A49 NB to A49 SB (U-Turn)	116	128	12	10%	113	117	4	4%	112	130	18	16
	M62 EB to A49 NB	108	234	126	117%	119	229	110	93%	115	256	141	122
M62 Junction 9	M62 EB to A49 SB	108	234	126	117%	119	229	110	93%	115	256	141	122
	A49 SB to M62 EB	172	178	6	3%	166	167	1	1%	171	174	3	2
	A49 SB	172	178	6	3%	166	167	1	1%	171	174	3	2
	A49 SB to M62 WB	172	178	6	3%	166	167	1	1%	171	174	3	2
	M62 WB to A49 SB	88	105	17	19%	62	85	23	37%	64	113	49	76
	M62 WB to A49 NB	88	105	17	19%	62	85	23	37%	64	113	49	76
							17:00-	18:00					
			20	22			20	27			20	132	
	Junction/ Movement	Length (	metres)	Diffe	rence	Length (1	metres)	Differe	ence	Length (	(metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual	
A49 Winwick Rd/	A49 SB to Birch Ave	0	0		-	38	0		-100%	0	0	(metres) 0	-
A49 Winwick Rd/ Birch Ave	A49 SB to Birch Ave Birch Rd to A49 SB	0	0	0	-	38 0	0	-38 0 -	-100%	0			-
Birch Ave				0	- - -			-38	-100%		0	0	-
Birch Ave 449 Winwick Road @	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB	0	0 1 1	0	- - -	0 0	0 0 0	-38 0 - 0 - 0 -	-100%	0	0 12 12	0 0 12 12	-
Birch Ave	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB	0 0 0 459	0 1 1 482	0 0 1 1 22	- - - - 5%	0 0 0 202	0 0 0 309	-38 0 - 0 - 0 - 107	53%	0 0 0 406	0 12 12 472	0 0 12 12 66	- - 16
Birch Ave 449 Winwick Road @	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West	0 0 0 459 512	0 1 1 482 512	0 0 1 1 22 -1	0%	0 0 0 202 489	0 0 0 309 509	-38 0 - 0 - 0 - 107 20	53% 4%	0 0 0 406 511	0 12 12 472 512	0 0 12 12 66	- - 16
Birch Ave 449 Winwick Road @	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB	0 0 0 459 512	0 1 1 482 512	0 0 1 1 22 -1 -1	0% 0%	0 0 0 202 489 489	0 0 309 509	-38 0 - 0 - 0 - 107 20 20	53% 4% 4%	0 0 0 406 511 511	0 12 12 472 512	0 0 12 12 66 0	- - 16 0
Birch Ave 449 Winwick Road @	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave	0 0 0 459 512 512	0 1 1 482 512 512	0 1 1 22 -1 -1 -1	0% 0% 0%	0 0 0 202 489 489	0 0 309 509 509	-38 0 - 0 - 107 20 20	53% 4% 4% 4%	0 0 406 511 511	0 12 12 472 512 512 512	0 0 12 12 66 0	- - 16 0
Birch Ave 449 Winwick Road @	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB	0 0 0 459 512 512 512	0 1 1 482 512 512 512 123	0 1 1 22 -1 -1 -1	0% 0% 0% -1%	0 0 0 202 489 489 489	0 0 309 509 509 509	-38 0 - 0 - 107 20 20 20 3	53% 4% 4% 4% 2%	0 0 406 511 511 511	0 12 12 472 512 512 512 131	0 0 12 12 66 0 0	- - 16 0 0 0
Birch Ave A49 Winwick Road @ Poplars Avenue	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West	0 0 0 459 512 512 512 124	0 1 1 482 512 512 512 123 123	0 0 1 1 22 -1 -1 -1 -2	0% 0% 0% -1%	0 0 0 202 489 489 489 132	0 0 309 509 509 509 135	-38 0 - 0 - 107 20 20 20 3	53% 4% 4% 4% 2% 2%	0 0 0 406 511 511 511 132	0 12 12 472 512 512 512 131	0 0 12 12 66 0 0 0	- - 16 0 0 0 -1 -1
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Sandy Ln West	0 0 459 512 512 512 124 124	0 1 1 482 512 512 512 123 123	0 0 1 1 22 -1 -1 -1 -2 -2	0% 0% 0% -1% -1%	0 0 0 202 489 489 489 132 132	0 0 309 509 509 135 135	-38 0 - 0 - 107 20 20 20 3 3	53% 4% 4% 4% 2% 2% 2%	0 0 0 406 511 511 511 132 132	0 12 12 472 512 512 512 131 131	0 0 12 12 66 0 0 0 -1 -1	- 16 0 0 0 -1 -1
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to A49 SB Cromwell Ave to A49 SB Cromwell Ave to Cromwell Ave (U-turn)	0 0 459 512 512 512 124 124 124	0 1 1 482 512 512 512 123 123 123 123	0 0 1 1 22 -1 -1 -1 -1 -2 -2 -2	0% 0% 0% -1% -1% -1%	0 0 0 202 489 489 132 132 132	0 0 309 509 509 509 135 135	-38 0 - 0 - 107 20 20 20 3 3 3 3	53% 4% 4% 4% 2% 2% 2% 2%	0 0 406 511 511 511 132 132 132	0 12 12 472 512 512 512 131 131 131	0 0 12 12 66 0 0 0	- 16 00 00 -1 -1 -1
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Sandy Ln West	0 0 459 512 512 512 124 124	0 1 1 482 512 512 512 123 123	0 0 1 1 22 -1 -1 -1 -1 -2 -2 -2	0% 0% 0% -1% -1%	0 0 0 202 489 489 489 132 132	0 0 309 509 509 135 135	-38 0 - 0 - 107 20 20 20 3 3	53% 4% 4% 4% 2% 2% 2%	0 0 0 406 511 511 511 132 132	0 12 12 472 512 512 512 131 131 131	0 0 12 12 66 0 0 0 -1 -1	- 166 00 00 00 -1 -1 -1 -1 3
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB to Sandy Ln West A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB	0 0 459 512 512 512 124 124 124 124	0 1 482 512 512 512 123 123 123 123 123	0 0 1 1 22 -1 -1 -1 -1 -2 -2 -2 -2	0% 0% 0% -1% -1% -1% -1%	0 0 0 202 489 489 132 132 132 132 230	0 0 309 509 509 135 135 135	-38 0 - 0 - 0 - 107 20 20 20 3 3 3 3 20	53% 4% 4% 4% 2% 2% 2% 2% 9%	0 0 406 511 511 511 132 132 132 264	0 12 12 472 512 512 512 131 131 131 131	0 0 12 12 66 0 0 -1 -1 -1 -1 -1	- 16 0 0 0 -1 -1 -1 -1 -1 5
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to A49 NB Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West	0 0 459 512 512 512 124 124 124 124 216	0 1 1 482 512 512 512 123 123 123 123 214 214	0 0 1 1 22 -1 -1 -1 -1 -2 -2 -2 -2 -2	0% 0% 0% -1% -1% -1% -1% -1%	0 0 0 202 489 489 132 132 132 230 230 230	0 0 309 509 509 509 135 135 135 249	-38 0 - 0 - 107 20 20 20 3 3 3 3 20 20 20	53% 4% 4% 4% 2% 2% 2% 2% 9%	0 0 0 406 511 511 132 132 132 132 264 264	0 12 12 12 12 12 12 12 13 13 13 13 13 13 12 17 12 17 12 17 12 17 12 29 3	0 0 12 12 66 0 0 0 -1 -1 -1 -1 7 7 7	- 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB to Sandy Ln West A49 NB to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln U-turn	0 0 0 459 512 512 512 124 124 124 216 216 216 216 216	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 2 2 2 2 - 1 1 - 2 2 2 2 2 2 2 2 2	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 202 489 489 132 132 230 230 230 279	0 0 0 309 509 509 135 135 135 249 249 249 293	-38 0 - 0 - 0 - 107 20 20 20 3 3 3 3 20 20 20 20 113	53% 4% 4% 2% 2% 2% 2% 9% 63% 63%	0 0 0 406 511 511 132 132 132 264 264 228	0 12 472 512 512 512 512 131 131 131 271 271 271 271 293 293	0 0 12 666 0 0 0 -1 -1 -1 -1 7 7 7	- 16 C C C C -11 -11 -11 -11 -11 -11 -11 -11 -11 -11
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB to Sandy Ln West A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave Cromwell Ave to A49 SB Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave SB Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Sandy Ln (U-turn)	0 0 0 4559 5512 512 512 124 124 124 126 216 216 142 142 142 142 142 142 142 142 142 142	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 2 2 2 2 -1 1 -1 1 -2 2 -2 2 -2	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 202 489 489 132 132 132 230 230 230 279 179	0 0 309 509 509 135 135 135 249 249 249 293	-38 0 - 0 - 0 - 107 20 20 20 3 3 3 20 20 20 21 113 113	53% 4% 4% 4% 2% 2% 2% 9% 9% 9% 63% 63%	0 0 0 406 511 511 132 132 132 264 264 264 228 228	0 12 12 472 512 512 513 131 131 131 271 271 271 293 293	0 0 12 12 12 666 0 0 0 -1 -1 -1 -1 -7 7 7 7 64 64 64	- 16 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Birch Ave  49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB NB A49 NB A49 NB A49 NB A49 NB A49 NB NB A49 NB TO Cromwell Ave (U-turn) A49 NB A49 NB TO Cromwell Ave Sandy Ln West NB	0 0 0 4559 512 512 124 124 124 216 216 216 216 2142 142 142	0 1 1 482 512 512 512 123 123 123 123 214 214 214 214 292 292 292	0 0 1 1 1 22 -1 -1 -1 -2 -2 -2 -2 -2 -2 -2 150 150	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 202 489 489 132 132 132 230 230 230 279 179 179	0 0 309 509 509 509 135 135 135 249 249 249 249 293 293	-38 0 - 0 - 107 20 20 20 3 3 3 3 20 20 20 20 113 113	53% 4% 4% 4% 2% 2% 2% 9% 9% 63% 63% 63%	0 0 406 511 511 132 132 264 264 264 228 228 228	0 12 12 472 512 512 512 131 131 131 271 271 271 293 293 293 293	0 0 12 12 12 0 0 0 0 -1 -1 -1 -1 -7 7 7 7 7 64 64 64	- 16 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to A49 NB Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Sandy Ln West Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Cromwell Ave Sandy Ln West to Cromwell Ave	0 0 0 459 512 512 512 124 124 216 216 142 142 142 236	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 1 22 2 -1 1 -1 1 -2 2 -2 2 -2	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 202 489 489 132 132 132 230 230 230 179 179 179	0 0 309 509 509 509 135 135 135 249 249 249 293 293 293 293	-38 0 - 0 - 107 20 20 20 3 3 3 3 20 20 20 20 113 113	53% 4% 4% 2% 2% 2% 2% 9% 9% 63% 63% 63% 63%	0 0 0 406 5111 511 132 132 264 264 264 228 228 228 228 228	0 12 12 472 512 512 131 131 131 271 271 271 293 293 293 293	0 0 12 12 12 66 0 0 0 -1 -1 -1 -1 7 7 7 7 64 64 64 64	- 16 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to A49 NB Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Sandy Ln West Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB	0 0 0 459 512 512 512 124 124 124 1216 216 142 142 142 142 142 142 142 142 142 142	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 22 2 -1 1 -1 1 -2 2 -2 2 -2 2	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 202 489 489 132 132 132 230 230 279 179 179 179 179 241	0 0 309 509 509 135 135 135 249 249 249 293 293 293 293 293	-38 0- 0- 107 20 20 20 3 3 3 20 20 20 21 113 113 113 7	53% 4% 4% 4% 2% 2% 2% 9% 9% 9% 63% 63% 63% 63% 3%	0 0 0 406 511 511 132 132 132 264 264 264 228 228 228 228 228	0 12 12 12 12 12 12 12 13 13 13 13 13 13 12 17 1	0 0 12 12 12 66 0 0 0 -1 -1 -1 -1 7 7 7 64 64 64 64 64 -42	- 16 00 00 01 -11 -13 33 33 38 28 28 28 28 28 28
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave (U-turn) A49 NB A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB Sandy Ln West to Cromwell Ave A49 NB to Junction NINE Retail Junction NINE Retail to A49 SB	0 0 0 459 512 512 512 124 124 124 124 126 216 216 226 236 236 101	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 2221 11 1222 150 150 150 150 3 3 69	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 202 489 489 132 132 132 230 230 230 179 179 179 179 179 241 241	0 0 0 309 509 509 135 135 135 249 249 293 293 293 293 293 293	-38 0 - 0 - 107 20 20 20 20 3 3 3 3 20 20 20 20 113 113 113 113 48	53% 4% 4% 2% 2% 2% 9% 9% 63% 63% 63% 63% 55%	0 0 0 406 511 511 132 132 132 224 224 228 228 228 228 228 228	0 12 12 12 12 12 12 12 13 13 13 13 13 13 13 12 17 12 1	0 0 12 666 0 0 0 -1 -1 -1 -1 7 7 7 7 64 64 64 64 64 64	- 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB to Sandy Ln West A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 NB Sandy Ln West to Cromwell Ave	0 0 0 459 512 512 512 512 124 124 124 124 126 216 216 216 226 226 236 236 101 98	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 2 2 2 2 -1 1 -1 1 -1 2 -2 -2 -2 -2 1 5 0 1 5 0 1 5 0 1 5 0 6 9 6 9 6 9	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 2022 489 489 132 132 132 230 230 230 179 179 179 179 241 86	0 0 0 309 509 509 135 135 135 249 249 249 293 293 293 293 293 249 249 249 249 249 249 249 249 249 249	-38 0 - 0 - 0 - 107 20 20 20 20 20 20 20 20 21 3 3 3 3 113 113 113 113 7 7	53% 4% 4% 2% 2% 2% 2% 9% 9% 63% 63% 63% 63% 55% 57%	0 0 0 406 511 511 132 132 132 264 264 228 228 228 228 228 228 28 268 268 268	0 12 472 512 512 512 512 131 131 131 271 271 271 293 293 293 293 293 293 293 293 293 293	0 0 12 12 12 666 0 0 0 -1 -1 -1 -1 -7 7 7 7 64 64 64 -64 -64 -64 -64 -64 -64 -64 -6	- 16 C C C C C C1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road @ Junction NINE Retail	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB to Sandy Ln West A49 SB to Sandy Ln West A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Sandy Ln West Sandy Ln West A49 NB to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Cromwell Ave A49 NB Junction Nine Retail Ito A49 NB Junction Nine Retail Ito A49 SB Junction Nine Retail Ito A49 NB A49 SB	0 0 0 0 4559 512 512 512 124 124 124 126 216 216 216 226 236 236 236 236 236 245 245 245 245 245 245 245 245 245 245	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 1 2 2 2 2 -1 1 -1 1 -2 2 -2 2	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 202 489 489 132 132 230 230 230 279 179 179 179 241 241 241 86	0 0 0 309 509 509 535 135 135 135 249 249 249 293 293 293 293 293 294 49 249	-38 0 - 0 - 0 - 107 20 20 20 3 3 3 20 20 20 113 113 113 7 7 4 8	53% 4% 4% 2% 2% 2% 9% 9% 63% 63% 63% 55% 57% -11%	0 0 0 406 511 511 132 132 264 264 228 228 228 228 268 268 268	0 12 12 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	0 0 12 12 12 666 0 0 0 -1 -1 -1 -1 -7 7 7 7 7 64 64 64 -64 -64 -64 -64 -64 -64 -64 -6	- 100 C C C C C C C C C C C C C C C C C C
Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road @ Junction NINE Retail	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB MS A49 SB to Sandy Ln West A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Sandy Ln (U-turn) Sandy Ln West to Sandy Ln U-turn Sandy Ln West to Sandy Ln U-turn Sandy Ln West to Sandy Ln U-turn Sandy Ln West to A49 SB Sandy Ln West to A49 SB Sandy Ln West to Cromwell Ave A49 NB A49 NB to Junction NINE Retail Junction NINE Retail to A49 NB A49 SB A49 SB to Junction NINE Retail	0 0 0 4559 512 512 512 124 124 124 216 216 226 236 236 101 988 452 92	0 1 1 482 512 512 512 123 123 123 214 214 214 292 292 292 292 298 238 238 170 450 61	0 0 0 1 1 1 1 2 2 2 2 2 - 1 1 - 1 1 - 2 2 2 2	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 202 489 489 132 132 132 230 230 230 179 179 179 179 241 241 86 84 449	0 0 309 509 509 509 135 135 135 249 249 249 293 293 293 293 293 294 49 249 293 393 293 393 393 393 393 393 393 39	-38 0 - 0 - 0 - 107 20 20 20 3 3 3 3 20 20 113 113 113 7 7 48 48 48	53% 4% 4% 4% 2% 2% 2% 9% 9% 63% 63% 63% 63% 55% -11% 66%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 12 472 512 512 512 131 131 131 271 271 271 293 293 293 256 256 256 256 69	0 0 0 12 12 12 12 12 12 12 12 12 12 12 12 12	- 166 C C C C C C C C C C C C C C C C C C
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Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road @ Junction NINE Retail Park  A49 Winwick Road/	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB to Sandy Ln West A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to Sandy Ln (U-turn Sandy Ln West to Sandy Ln (U-turn Sandy Ln West to Tomwell Ave A49 NB A49 NB to Junction NINE Retail Junction NINE Retail to A49 SB Junction NINE Retail to A49 NB A49 SB A49 SB to Junction NINE Retail A49 SB to Hawleys Lane A49 SB A49 SB to Long Lane A49 SB A49 SB to Hawleys Lane	0 0 0 0 459 512 512 512 512 124 124 124 126 216 216 216 142 142 236 250 101 98 452 92 95 9343 319	0 1 1 1 482 512 512 123 123 123 124 214 214 214 292 292 292 292 292 295 170 616 617 279 241 343 414	0 0 0 1 1 1 2 2 2 2 -1 1 -1 1 -1 2 2 2 2 -2 2 -2 2 2 2	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 2022 489 489 132 132 230 230 230 279 179 179 241 241 241 86 84 449 56 246 70 343 325	0 0 0 309 509 509 135 135 135 249 249 249 249 249 293 293 293 293 293 293 293 293 293 29	-38 0 - 0 - 0 - 0 - 107 20 20 20 20 20 20 20 113 113 113 113 113 113 113 113 113 11	53% 4% 4% 4% 2% 2% 2% 9% 9% 63% 63% 63% 63% 63% 111% 66% 214% -1% 55%	0 0 0 406 511 511 132 132 264 264 264 228 228 228 268 268 311 79 473 58 327 68 341	0 12 12 12 12 12 12 12 13 13 13 13 13 13 14 13 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	0 0 0 12 12 12 12 16 16 16 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	
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Birch Ave  A49 Winwick Road @ Poplars Avenue  A49 Winwick Road/ A574 Cromwell Avenue/ Sandy Lane West  A49 Winwick Road @ Junction NINE Retail Park  A49 Winwick Road/ Hawleys Lane/ A50	Birch Rd to A49 SB A49 NB to Woburn Rd A49 NB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave Cromwell Ave to A9 NB Cromwell Ave to A9 NB Cromwell Ave to A49 SB Cromwell Ave to A49 SB Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to A49 SB Sandy Ln West to A49 SB Junction NINE Retail to A49 SB A49 SB A49 SB to Junction NINE Retail A49 SB A49 SB to Junction NINE Retail A49 SB A49 SB to Hawleys Lane A49 SB A49 NB to Hawleys Lane A49 NB Long Lane to A49 SB Long Lane to A49 SB Long Lane to A49 NB	0 0 0 0 0 4599 5512 512 512 512 124 124 124 126 216 216 126 126 126 126 127 129 129 129 129	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 1 2 2 2 2 - 1 1 - 1 1 - 2 2 - 2 2 - 2 2 - 2 2 1 5 0 0 1 5 0 1 5 0 0	0% 0% 0% -1% -1% -1% -1% -1% -1% -1% -1% -1% -1	0 0 0 2022 489 489 132 132 230 230 230 179 179 179 241 241 86 84 449 56 246 70 343 325 135 325 135	0 0 0 309 509 509 135 135 135 249 249 249 249 293 293 293 293 293 293 293 271 397 93 297 172 340 503 503 503 503 503 503 504 505 505 505 505 505 505 505 505 505	-38 0 - 0 - 0 - 0 - 107 20 20 20 20 20 20 20 21 3 3 3 3 4 3 7 7 7 7 7 7 7 53 101 -3 178 136 178 40 5 5	53% 4% 4% 4% 2% 2% 2% 9% 9% 9% 63% 63% 63% 63% 111% 55% 101% 55% 35% 35% 38%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 12 12 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	0 0 0 12 12 12 666 66 0 0 0 0 0 0 1 12 11 1 1 1 1 1 1 1 1 1 1	- 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TABLE 3.6: AVERAGE MAXIMUM PM PEAK HOUR QUEUE LENGTH COMPARISON

#### 3.4 Journey Times Comparison

3.4.1 Consistent with the base year modelling, average journey times have been extracted for a single evaluation interval covering the peak hour for both the AM (08:00-09:00) and PM (17:00-18:00) scenario models. The separate routes used for evaluation were as follows:

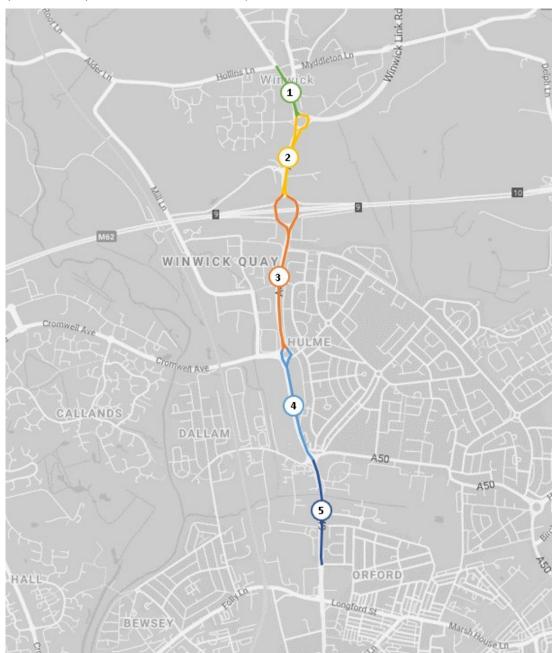


FIGURE 3.1: JOURNEY TIME SECTIONS ASSESSED

- 3.4.2 Table 3.7 summarises the average peak hour journey times for both northbound and southbound traffic during the AM peak, for each future year scenario.
- 3.4.3 It is clear that for both northbound and southbound traffic travelling on the A49, there is not any sort of statistically noticeable impact until 2032. Even then, the majority of that impact happens on the northbound approach to one signalised junction the junction with the A49 / A50 which may be at least partially a result of the signal controller setup

#### AM Journey Time (s) - 08:00-09:00

		AM 20:	22			AM 2027	,			AM 203	32	
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1 NB	80	91	11	13%	97	98	1	1%	101	113	12	11%
2 NB	104	109	5	5%	116	116	0	0%	119	128	9	7%
3 NB	84	86	2	2%	91	92	1	1%	127	105	-22	-17%
4 NB	96	98	3	3%	102	103	1	1%	103	104	1	1%
5 NB	89	93	4	4%	120	121	1	0%	173	250	77	45%
	452	476	24.32	5%	527	530	3.53	1%	623	700	76.87	12%

		AM 20	22			AM 2027	,			AM 203	2	
Section	Do Min Do Som Diff %			%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1SB	73	79	5	7%	70	71	0	0%	67	59	-8	-12%
2SB	103	105	1	1%	104	104	0	0%	108	114	6	5%
38B	179	181	2	1%	151	151	0	0%	206	189	-17	-8%
4 SB	140	130	-11	-8%	160	160	0	0%	208	198	-10	-5%
5 S B	63	65	2	3%	65	65	0	0%	65	66	1	2%
	559	559	-0.27	0%	550	551	0.99	0%	654	626	-28.03	-4%

TABLE 3.7: AM PEAK JOURNEY TIME COMPARISON

#### PM Journey Time (s) - 17:00-18:00

		PM 20	22			PM 2027	,			PM 203	32	
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1 NB	57	59	2	3%	63	63	0	0%	70	70	0	0%
2 NB	115	115	0	0%	118	118	0	0%	132	132	0	0%
3 NB	85	87	3	3%	87	87	0	0%	89	89	0	0%
4 NB	102	102	0	0%	108	109	0	0%	112	113	1	1%
5 NB	90	105	15	16%	129	130	0	0%	209	209	0	0%
	448	468	19.45	4%	506	507	1.34	0%	612	613	1.39	0%

		PM 20	22			PM 2027	,			PM 203	32	
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1SB	55	60	5	8%	57	57	0	0%	70	70	0	0%
2SB	157	183	27	17%	116	117	1	1%	221	223	2	1%
3SB	341	313	-28	-8%	249	250	1	0%	285	286	1	0%
4 SB	316	315	-1	0%	273	274	1	0%	269	269	1	0%
5 SB	62	62	0	0%	64	64	0	0%	64	65	0	0%
	932	934	2.35	0%	759	762	2.48	0%	909	912	3.23	0%

**TABLE 3.8: PM PEAK JOURNEY TIME COMPARISON** 

- 3.4.4 Table 3.8 summarises the average peak hour journey times for both northbound and southbound traffic during the PM peak, for each future year scenario.
- 3.4.5 In an effort to ensure that the comparison was fair, the same signal timings were used for each peak/ year combination. In the PM peak, it is clear that the development has no real impact on travel times along the A49 when this is the case.

#### 4 SUMMARY AND RECOMMENDATIONS

- 4.1.1 Building on the 2019 Base Year Model, 2022, 2027 and 2032 'Do Minimum' model scenarios were produced to act as reference case models for the purposes of comparison, with the aim of assessing the impact of traffic flow changes associated with the proposed Peel Hall development.
- 4.1.2 The following 'Do Something', or 'With Development' scenarios, were compared to their associated reference cases:
  - 2022 Do Something (Full Development Scenario)
  - 2027 Do Something (Part Development Scenario)
  - 2032 Do Something (Full Development Scenario)
- 4.1.3 There are some relatively minor, steady increases to delay, queue lengths etc. as a result of the growth in both background traffic and specific development related traffic. However, there are some notable areas where higher levels of delay are apparent. These are primarily the following locations:
  - Eastbound M62 off-slip this is likely an issue which could be partially, if not entirely solved through proper revalidation of the MOVA dataset onsite. A better understanding of the potential benefits could be achieved with more detailed modelling of the signals within the VISSIM model (the junction still currently runs from the original models fixed-time signal controller).
  - Eastbound motorway diverge M62 this is an issue in the AM peak scenarios, which becomes more and more apparent as each layer of growth is added. The effect of the edge of network delay is modelled as per the original AECOM model, provided by Highways England.
  - A49 Winwick Road / A574 Cromwell Avenue / Sandy Lane West this junction is very sensitive to traffic growth, runs very tight, fixed-time signal plans, and is particularly physically constrained. There is the potential that more responsive, demand-dependent signal control would help balance the delay-demand. If there is scope for additional highway space (there is currently very little internal storage, and the entry arm from Sandy Lane West is particularly constrained) then this would also warrant further investigation.
  - A49 Winwick Road / Hawleys Lane / A50 Long Lane this junction is modelled as per the
    original model signal controller. This is very limited in its ability to be anything like as
    responsive as the on-street controller (which is MOVA controlled). A better understanding
    of the potential benefits could be achieved with more detailed modelling of the signals
    within the VISSIM model.

### **APPENDIX A:**

**TURNING VOLUME CALIBRATION CHECKS** 

#### AM VOLUME COMPARISON - 07:00-08:00 (WARM-UP PERIOD)

							07:00-	-ม8:มม					
			2022				20	27			20	32	
	Junction/Movement	Vehick	e Flow	Differ	епсе	Vehicl	e Flow	Differ	епсе	Vehicl	e Flow	Differ	гепсе
Junction	Approach	DoMin	DaSam	Actual	96	DoMin	DoSom	Actual	96	DoMin	DoSom	Actual	%
Junction	Арргияси	Dulyiiii	Dusuiii	ACTUBI	70	Dulyiiii	Dusuiii	Actual	70	Dulyiiii	Dusuiii	KCC	70
	A49 NB to Winwick Park Ave	15	17	2	13%	17	18	1	6%	19	18	-1	-5%
	A49 NB	683	696	13	2%	722	728	6	1%	<b>7</b> 38	766	28	4%
	A49 NB to Winwick Link Rd	408	405	-3	-1%	438	439	1	0%	456	460	4	1%
	Winwick Park Ave to A49 NB	23	25	2	9%	27	27	0	0%	29	29	0	0%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	46	46	0	0%	50	50	0	0%	55	53	-2	-4%
A49 Winwick Link	Winwick Park Ave to A49 SB	0	0	0	-	0	0	0	-	0	0	0	-
Road/WinwickPark	A49 SBt a Winwick Link Rd	1	10	9	900%	24	29	5	21%	26	32	6	23%
Avenue	A49 SB	806	827	21	3%	826	825	-1	0%	823	841	18	2%
	A49 SB to Winwick Park Ave	4	4	0	0%	3	3	0	0%	3	3	0	
	Winwick Link Rd to A49 SB	683	683	0	0%	718	715	-3	0%	<b>7</b> 58	761	3	
	Winwick Link Rd to Winwick Park Ave	8	8	0	0%	9	9	0	0%	10	10	0	
	Winwick Link Rd to A49 NB	10	11	1	10%	56	57	_	2%	57	57	0	
	A49 NB	1045	1056	11	1%	1113	1123	10	1%	1151	1177	26	
	A49 NB to Delp Ln	200	212	12	6%	234	249	15	6%	253	245	-8	
A49 Newton Road/	A49SB	1306	1330	24	2%	1347	1349	2	0%	1386	1408	22	
Delph Lane	A49 SB to Delph Ln	166	164	-2	-1%	175	169	-6	-3%	172	172	0	
Jeipii caire	Delph Ln to A49 NB	86	86	-2	-1% 0%	89		-5	-3%	93	93	0	
	Delph Lnta A49 SB	92	92	0	0%	91	92	1	1%	93	98	4	
	A49 NBta M62 WB	163	169	6	4%	169	169	0	0%	187		35	
	A49 NB to IVI62 WB			14				17			222		
		430	444		3%	449	466		4%	483	493	10	
	A49 NB to M62 EB	384	401	17	4%	414		10	2%	438	444	6	
	A49 NBto A49 SB (U-Turn)	0	5	5	- 054	0	_	5	- 084	0	6	6	
MC0 1	M62 EBta A49 NB	723	734	11	2%	815	831	16	2%	854	871	17	
M62 Junction 9	M62 EBto A49 SB	244	235	-9	-4%	227	227	0	0%	245	252	7	
	A49 SB to M62 EB	250	275	25	10%	254		8	3%	272	295	23	
	A49 SB	707	693	-14	-2%	717	713	-4	-1%	731	<b>7</b> 38	7	
	A49 SB to M62 WB	398	410	12	3%	426		-3	-1%	436	431	-5	
	M62 WBta A49 SB	599	609	10	2%	648	655	7	1%	707	725	18	
	M62 WBta A49 NB	103	99	-4	-4%	92	86	-6	-7%	77	68	-9	-12%
A49 Winwick Rd/	A49 SB ta Birch Ave	5	14	9	180%	6	14	8	133%	6	15	9	150%
Birch Ave	Birch Rd to A49 SB	6	24	18	300%	6	24	18	300%	6	24	18	300%
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-	0	0	0	-	0	0	0	-
_	A49 NB	1017	1056	39	4%	1069	1103	34	3%	1147	1199	52	5%
Poplars Avenue	A49 SB	1547	1546	-1	0%	1587	1605	18	1%	1678	1725	47	3%
	A49 SB to Sandy Ln West	188	208	20	11%	250	285	35	14%	313	317	4	1%
	A49 SB	1030	1003	-27	-3%	1002	979	-23	-2%	987	995	8	
	A49 SB to Cromwell Ave	249	256	7	3%	271	275		1%	299	320	21	
	Cromwell Ave to A49 NB	254	255		0%	267		-2		293			
	Cromwell Ave to Sandy Ln West	268	297	_	11%	295				302			
A49 Winwick Road/	Cramwell Ave to A49 SB	486	504		4%	539			4%	590	583	-7	
A574 Cramwell	Cramwell Ave to Cramwell Ave (U-turn)	28	29		496	30			-3%	32		-1	_
Avenue/Sandy Lane		628	626		0%	652		-1	0%	684		4	
West	A49 NB to Sandy Ln West	47	66		40%	59			49%	74		24	
	A49 NBto Cromwell Ave	252	259		3%	266			4%	284		11	
	Sandy Ln West to A49 NB	149	188	<u> </u>	26%	164				184		54	
	Sandy Ln West to Sandy Ln (U-turn	0	100		- 20/4	104				0		0	
	Sandy Ln West to Sandy En (0-ton)	18	6		-67%	4		3		4	8	4	
	Sandy Ln West to A4538 Sandy Ln West to Cromwell Ave	224	302		35%	237			21%	251	317		
	A49 NB			22	3%	904			3%	947		33	
		859	881 53		10%	48		31	5% 6%	51	58	7	
A49 Winwick Road @	A49 NB to Junction NINE Retail	48 86				84				76			
Junction NINE Retail	Junction NINE Retail to A49 SB		88		2%								
Park	Junction NINE Retail to A49 NB	86	91	5	6%	100		7		121	130	9	
	A49SB	1410	1386		-2%	1409				1436	1438		
	A49 SB to Junction NINE Retail	109	111	2	2%	120			3%	124	129	5	
	A49 SB to Hawleys Lane	185	188		2%	195			-3%	194		2	
	A49 SB to Long Lane	146	126		-14%	83			1%	65	58	-7	
	A49SB	1133	1132		0%	1157				1173	1181	8	
	A49 NB to Hawleys Lane	155	163	_	5%	176		_		199	198	-1	
A49 Winwick Road/	A49 NB to Long Lane	104	106		2%	104			1%	104			
Hawleys Lane/A50	A49 NB	692	705	13	2%	710			4%	<b>7</b> 55	772	17	
Long Lane	Long Lane to A49 SB	185	315		70%	214	293	79		263	387	124	
20119 20116	Long Lane to Hawleys Lane	198	203		3%	208			3%	217	223	6	_
1		0.0	97	11	13%	91	99	8	9%	98	112	14	14%
	Long Lane to A49 NB	86	2.										
	Long Lane to A49 NB Hawleys Lane to Long Lane	86 67	70	3	4%	69	68	-1	-1%	72	73	1	1%
						69 1		-1 0		72		0	0%
	Hawleys Lane to Long Lane	67	70	0			1	0	0%		1	0	0%

07:00-08:00

#### AM VOLUME COMPARISON - 08:00-09:00 (PEAK PERIOD)

Add			2022					00:00					7.0	
Advanced Park Appendix Park App   Default   Default   Advanced Park App   Advanced P		1	54.1.											
Add Name Winnerd Carls And Page 1 20 20 20 20 20 20 20 20 20 20 20 20 20		Junction/ Movement	Vehicl	e Flow	Differ	епсе	Vehicl	e Flow	Differ	епсе	Vehic	e Flow	Differ	епсе
A49 New Province Limit Advanced Limi	Junction	Approach	DoMin	DoSom	Actual	96	DoMin	DoSom	Actual	96	DoMin	DaSam	Actual	%
## APP With Control Rep ## APP   Prop   Prop		A49 NB to Winwick Park Ave	20	18	-2	-10%	19	20	1	5%	21	22	1	5%
AA9 Neverlan Road/ AA9 Neverlan Road/ AA9 Neverlan Road/ AA9 Wirner Carbon Road   62   66   6   64   68   72   2   78   77   2   2   AA9 Wirner Carbon Road   70   70   70   70   70   70   70   7		A49 NB	751		$\overline{}$		795	811	16		815	841	26	3%
A68 Newstan Road / Winwick Park Land Miner State Mark 19		A49 NB to Winwick Link Rd	452	453	1	0%	468	476	8	2%	491	494	3	1%
### Aboversice Link Red Vill mind Set Part All And EAR Set Bit Will mind Set Bit Will mind Set Bit Will mind Set Bit Will mind Link Bit All 2 1 20 10 00 0 0 0 0 0 0 0 0 0 0 0 0 0		Winwick Park Ave to A49 NB	35	31	-4	-11%	36	37	1	3%	45	43	-2	-4%
Read Winwick Park Annue  Annue		Winwick Park Ave to Winwick Link Rd	62	66	4	6%	69	71	2	3%	<b>7</b> 5	77	2	3%
As 9 Set Winner of Park Also 8		Winwick Park Ave to A49 SB	0	0	0	-	0			-		0	0	-
## A69 BTR Winneld Chin Rich and A69 B A69 BTR Winneld Chin Rich and A69 B A69 BTR Deligh Limits A69 BTR Winneld Chin Rich and A69 B A69 BTR Deligh Limits D	1 '	A49 SB to Winwick Link Rd												19%
Winnest Limit Refer A493 88   789	Avenue													0%
Wilmork Limit Reta Wilmork Cherk An 9								_	_					0%
Wilmonic Link Ratio Add NR   12   12   13   1   5%									-					1%
A69 Normal Ready A69 No								-	_			_		0%
A49 Newton Ready Delph Lane  A49 Set Delph Lin  A49									_				_	0% 3%
A69 Neron Ready  A69 Sits Delph Line  Delph Line A69 Ris  A69 Sits Delph Line  A69 Sits Delph Line  A69 Sits Delph Line  A69 Sits Delph Line  A69 Sits Delph Line A69 Ris  B 48														-5%
Deligh Lane	A49 Newton Road/													1%
Delight Lat AA49 No														-1%
Design Late A49SB														2%
APP INTO MAZ VID. 220 221 32 694 APP INTO MAZ VID. APP INTO MAZ BE 579 592 31 7244 570 696 621 15 246 626 690 6 6 8 APP INTO MAZ BE 579 592 31 7244 570 696 621 15 246 626 690 6 6 8 APP INTO MAZ BE 579 579 592 31 7244 570 696 6 6 221 15 246 626 690 6 6 8 APP INTO MAZ BE 579 579 592 31 8 494 570 579 592 31 594 570 579 592 31 594 570 579 592 31 594 570 579 592 31 594 570 579 592 31 594 570 579 592 31 594 570 579 592 31 594 570 579 592 31 594 570 579 592 31 594 570 579 579 579 579 579 579 579 579 579 579														2%
A69 Bitto MoS 2B		'			$\overline{}$				_					15%
M62 Junction 9  M62 Elbra A49 Bit		A49 NB	5 <b>7</b> 9	592					15			640		1%
M62 Junction 9  M62 Elbra A49 NB  A62 Elbra A49 SB  A63 Elbra A49 SB  A64 SB  A65 SB			540	554	14	3%	570	5 <b>7</b> 9		2%	585	603	18	3%
MeS Junction   MeS Jettle AMS Et   238   245   7   346   218   224   6   346   336   335   315   318   325   246   6   348   326   326   326   327   326   349   336   328   325   236   349   336   335   315   318   325   326   348   326		i i				-		-		-				-
A49 Star MS 2 Et al. MS 2 Et a														3%
## A49 SET LANGE WE A48 BE A47 - 29 - 394   866   558   8 - 146   871   876   5    ## A49 SET LANGE WE A48 BE \$55   565   10   244   601   607   6   144   662   659   77    ## A49 Winwick Rad BE S55   565   10   244   601   607   6   144   662   659   77    ## A49 Winwick Rad BE BE S55   565   10   244   601   607   6   144   665   659   77    ## A49 Winwick Rad BE BE S55   565   10   244   601   607   6   144   665   659   77    ## A49 Winwick Rad BE BE S55   15   10   200   5   16   11   220    ## A49 Winwick Rad BE BE S55   15   10   200   10   0   0   0    ## A49 Winwick Rad BE BE S55   15   10   200   10   0   0   0   0    ## A49 Winwick Rad BE BE S55   15   10   200   10   0   0   0   0   0    ## A49 Winwick Rad BE BE S55   15   10   200   10   0   0   0   0   0   0   0   0	M62 Junction 9	M62 EB to A49 SB			· ·				-					5%
A69 Winwick Rad A89 Minwick Ra														6%
Mode   March					$\overline{}$									1%
May With May No B														-2%
A49 Winwick Rd   A49 Situ Birch Ave														1% -9%
## A49 Winwick Raad @ Poplars Avenue  A49 Winwick Raad @ Poplars Avenue  A49 Winwick Raad @ Poplars Avenue  A49 Winwick Raad @ A49 NE to Woburn Rd			104		-								-	
A49 Winwick Road			5											200%
Adg Note   120   1368   48   48   49   1407   1443   36   396   1443   1552   53   1498   1498   1498   1697   1683   6   0.96   1698   1713   24   1.16   1760   1801   41   1448   1498   1770   1803   1713   1770   1803   1803   1	BITCH AVE													136%
## A49 SB	A49 Winwick Road @													4%
A49 SB to Sandy Ln West	Poplars Avenue													2%
A49 SB					$\overline{}$									1%
A49 Winwick Road  A40 Winwick														1%
A49 Winwick Road @ Junction NINE Retail to A49 NB 94 100 6 6% A49 Sito Junction NINE Retail to A49 NB 94 100 6 6% A49 Sito Junction NINE Retail to A49 NB 94 100 6 6% A49 Sito Junction NINE Retail to A49 NB 94 100 6 6% A49 Sito Junction NINE Retail to A49 NB 94 100 6 6% A49 Sito Junction NINE Retail to A49 NB 95 1677 1646 -31 -256 1646 -31 -256 1646 1652 8 0% A49 Sito Junction NINE Retail to A49 NB 95 1677 1646 -31 -256 1646 -31 -256 1646 1652 8 0% A49 Sito Junction NINE Retail to A49 NB 95 194 125 -256 1666 1667					$\overline{}$									8%
A49 Winwick Road   A574 Cromwell Ave to A49 SB   609   635   26   496   675   707   32   596   749   733   -16   -16   749   749   733   -16   -16   749		Cramwell Ave to A49 NB	295	297		1%				1%	349	331		-5%
A574 Cramwell   Avenue/Sandy Lane   A49 MB to Sandy Ln West to A49 NB to Sandy Ln West to Cramwell Ave 285 373 88 3146 6 9 33 50% 530		Cromwell Ave to Sandy Ln West	341	3 <b>7</b> 8	37	11%	377	400	23	6%	393	415	22	6%
Add NB	A49 Winwick Road/	Cromwell Ave to A49 SB	609	635	26	4%	6 <b>7</b> 5	707	32	5%	749	<b>7</b> 33	-16	-2%
West	A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	40	37	-3	-8%	37	38	1	3%	43	38	-5	-12%
A49 NBto Cromwell Ave 320 326 6 2% Sandy Ln West to A49 NB 199 238 39 20% Sandy Ln West to A49 NB 199 238 39 20% Sandy Ln West to A49 NB 25 9 1.16 6.69% Sandy Ln West to A49 SB 25 9 1.16 6.69% Sandy Ln West to Cromwell Ave 285 373 88 31% A49 NB 1108 1129 21 29% A49 NB 1108 1129 21 29% A49 SB to Junction NINE Retail to A49 SB 1677 1646 -31 -2% A49 SB to Junction NINE Retail 1 36 140 4 39% A49 SB to Junction NINE Retail 1 36 140 4 39% A49 SB to Junction NINE Retail 1 36 140 4 39% A49 SB Long Lane 1 72 147 -25 -15% A49 NB 1 335 1331 -4 09% A49 NB 1 340 140 140 140 140 140 140 140 140 140 1	Avenue/Sandy Lane	A49 NB	827	830		0%	8 <b>7</b> 6	879		0%	917	909	-8	-1%
Sandy Ln West to A49 NB	West													25%
Sandy Ln West to Sandy Ln (U-turn   0   0   0   0   0   0   0   0   0														2%
Sandy Ln West to A49 SB   25   9   -16   -64%		r				20%				15%				21%
Sandy Ln West to Cromwell Ave   285   373   88   316   308   355   47   1596   318   380   62   1				_			_	_		-				
A49 Winwick Road @ Junction NINE Retail park		r											-	67%
A49 Winwick Road @ Junction NINE Retail Park		·												19%
Junction NINE Retail to A49 SB														1% 10%
Park    Junction NINE Retail to A49 NB									_					-1%
A49 SB									-					-1% 6%
A49 SBto Junction NINERetail 136 140 4 3%  A49 SBto Long Lane 234 234 0 0 0%  A49 SBto Long Lane 172 147 -25 -15%  A49 SBto Long Lane 201 211 10 5%  A49 NBto Long Lane 148 149 1 1%  A49 NB B 893 914 21 2%  Long Lane to A49 SB Long Lane 256 252 -4 -2%  Long Lane to A49 NB 115 121 6 5%  Hawleys Lane to A49 SB 115 Long Lane 80 82 2 3%  Hawleys Lane to A49 SB 119 Long Lane 80 82 2 3%  Hawleys Lane to A49 SB 1 1 1 0 0%  A49 SBto Long Lane to A49 SB 15 2%  A49 SBto Long Lane to A49 SB 15 2%  A49 SBto Long Lane to A49 SB 25 397 142 56%  Long Lane to A49 SB 115 121 6 5%  Hawleys Lane to A49 SB 115 121 6 5%  Hawleys Lane to A49 SB 1 1 1 0 0%  A49 SBto Long Lane to A49 SB 15 2%  A49 SBto Long Lane to A49 SB 2 2 3%  Hawleys Lane to A49 SB 115 121 6 5%  Hawleys Lane to A49 SB 1 1 1 0 0%  A49 SBto Long Lane to A49 SB 15 2%  A49 SBto Long Lane to A49 SB 2 2 3%  Hawleys Lane to A49 SB 1 1 1 0 0%  A49 SBto Long Lane to A49 SB 15 2%  A49 SBto Long Lane to A49 SB 2 2 3%  Hawleys Lane to A49 SB 1 1 1 0 0%  A49 SBto Long Lane to A49 SB 15 2%  A49 SBto Long Lane to A49 SB 2 2 3%  Hawleys Lane to A49 SB 115 121 6 5%  Hawleys Lane to A49 SB 1 1 1 0 0%  A49 SBto Long Lane to A49 SB 15 249  A49 SBto Long Lane to A49 SB 15 249  A49 SBto Long Lane to A49 SB 2 2 3%  Hawleys Lane to A49 SB 115 121 6 5%  Hawleys Lane to A49 SB 1 1 1 0 0%  A49 SB 142 148 6 4%  A49 SB 151 249 -2 -5  A49 SB 144 1406 2 0%  A49 SB 144 1406 12 0%  A49 SB 144 1406 2 0%  A49 SB 144 1406 2 0%  A49 SB 144 1406 12 0%  A49 SB 144 1406 12 0%  A49 SB 144 1406 1406 2 0%  A49 SB 144	Park													0%
A49 SB to Hawleys Lane														2%
A49 Winwick Road/ Hawleys Lane A49 SB Long Lane to A49 SB Long Lane to A49 SB Hawleys Lane A49 SB Hawleys Lane to					-									-1%
A49 Winwick Road/ Hawleys Lane / A50 Long Lane to A49 NB Long Lane														-12%
A49 Winwick Road/ Hawleys Lane/A50 Long Lane to A49 NB to Long Lane 256 255 397 142 56% Long Lane to A49 NB 115 121 6 5% Hawleys Lane to Long Lane 80 82 2 3% Hawleys Lane to A49 SB 1 1 1 0 0%								1406			1414	1419		0%
A49 Winwick Road/		A49 NBto Hawleys Lane		211	10			238		2%		248	-6	-2%
Hawleys Lane / A50 Long Lane to A49 SB	A49 Winwick Panel	A49 NB to Long Lane	148	149	1	1%	150	150	0	0%	147	146	-1	-1%
Long Lane to A49 SB			893	914	21	2%	949	980	31	3%	962	968	6	1%
Long Lane to Hawleys Lane 256 252 -4 -2% 255 264 9 4% 263 269 6 Long Lane to A49 NB 115 121 6 5% 116 125 9 8% 119 129 10 Hawleys Lane to Long Lane 80 82 2 3% 82 84 2 2% 87 89 2 Hawleys Lane to A49 SB 1 1 0 0% 1 1 0 0% 1 1 0		Long Lane to A49 SB	255	397	142			385	89	30%		471	120	34%
Hawleys Lane to Long Lane     80     82     2     3%     82     84     2     2%     87     89     2       Hawleys Lane to A49 SB     1     1     0     0%     1     1     0     0%     1     1     0	Lung cane	Long Lane to Hawleys Lane			$\overline{}$								-	2%
Hawleys Lane to A49 SB 1 1 1 0 0% 1 1 0 0% 1 1 0														8%
														2%
Hawleys Lane to A49 NB   179   184   5   3%   191   193   2   1%   209   216   7			_					_				_		0%
		Hawleys Lane to A49 NB	179	184	5	3%	191	193	2	1%	209	216	7	3%

08:00-09:00

#### AM VOLUME COMPARISON - 09:00-09:30 (COOL-DOWN PERIOD)

Junction   Approach			2022											
Autocide   Application   Application   Acquired   Acquired   Application   Acquired   Application   Acquired   Application   Application   Acquired   Application   Appl		L												
A49 Revation Road/ Delph Lane A49 Revation Road/ Del		unction/ Movement	Vehicle	e Flow	Differ		Vehicl	e Flow	Differ		Vehicl	e How	Differ	
A69 Newdon Blast // A69 Ne	Junction	Approach	DoMin	DaSam	Actual	96	DoMin	DoSom	Actual	%	DoMin	DoSom	Actual	%
A69 Newton Road/ A99 Winwick Park As Expression (1997) A99 Winwick Link Ref as A6458  A99 Winwick Link Ref as A6458  A69 Winwick Link Ref as A6458  Delph Line  A69 Winwick Ref A6458  Delph Line  A69 Winwick Link Ref as A6458  Delph Line  A69 Winwick Link Ref as A6458  Delph Line  A69 Winwick Ref A6458  A69 Winwick Link Ref as A6458  Delph Line  A69 Winwick Ref A6458  A69 Winwick Link Ref A6458  Delph Line  A69 Winwick Link Ref A6458  Delph Link Ref A6		A49 NB to Winwick Park Ave	7	8	1	14%	9	7	-2	-22%	8	8	0	0%
March   Warmord Fart Aven and Art   March		A49 NB	338	359		6%	356	370	14	4%	3 <b>7</b> 0	403	33	9%
A69 Nimorick Park A69 Wilmords Wilmords Park A69 Wilmords		A49 NB to Winwick Link Rd	203	207		2%		221	4	2%	231	239	8	3%
### MAP Withwick Link Ready Withwick Link Ready Early  ### Add \$8 Text Withwick Link Ready Early  ### Withwick Link Ready Earl		Winwick Park Ave to A49 NB	$\overline{}$						1			-	1	7%
Ready Winninck Park   Annex					_	0%			_	0%				0%
AA9 Nimorick Rad A9 But Vinnerick Park Ave								_		-			_	-
Med Selfa Winwick Park Nave   2   3   4   5.59k	1 '		_	-					_				- '	25%
Wilsone CLIA In Bird TA ARG 98   346   34   3   0   0   0   0   0   0   0   0   0	Avenue											434		-2% 0%
Winned Link Bird Winn							_	_				789	-	0%
Willing Clark Link Rate A49 No					$\overline{}$							4	_	0%
A49 New Lord Road  A49 New Lord									-			28	-	0%
A49 Stroth Road   A49 SE			521	545	24			569	$\overline{}$				35	6%
Deliph Lane  AA9 SET Deliph Lane Deliph Lane AP IB  36 35 0 0 0 094  A9 2 2 2 344  A9 3 32 39 0 0 094  A9 41 1 1  Deliph Lane AP IB  36 35 0 0 094  A9 104 101 1344  A9 SET Deliph Lane AP IB  A9 104 101 1344  A9 SET Deliph Lane AP IB  A9 104 101 1344  A9 SET Deliph Lane AP IB  A9 104 101 1344  A9 SET Deliph Lane AP IB  A9 105 227 1 12 544  A9 105 104 105 105 105 105 105 105 105 105 105 105		A49 NB to Delp Ln	103	113	10	10%	122	130	8	7%	128	127	-1	-1%
Daliph Latt A 69 NB	A49 Newton Road/	A49SB	<b>7</b> 39	740	1	0%	732	<b>7</b> 32	0	0%	746	<b>7</b> 38	-8	-1%
Me   Daliph Latta AMS 28   S1   S2   1   2	Delph Lane	A49 SB ta Delph Ln	$\overline{}$						-3		99	95	-4	-4%
A49 Nito MS2 WB	1								0				1	3%
A49 NED MS2 EB		·			$\overline{}$									2%
M8 2 Junction 9  M8 2 Lunction 9  M8 2 Lunction 9  M8 2 Elb to A49 NB  M8 2 Lunction 9  M8 2 Elb to A49 NB  M8 2 Lunction 9  M8 2 Elb to A49 NB  M8 2 Lunction 9  M8 2 Elb to A49 NB  M8 2 Lunction 9  M8 2 Elb to A49 NB  M8 2 Lunction 10  M8 2 Lunc														24%
M82 Junction 9  M83 Junction 9  M84 Junction 9  M85 Junction 9  M86 Junction 9					$\overline{}$				$\vdash$					5%
MS 2 Junction 9  MS 2 Bits Add 9 LB						6%			$\overline{}$	6%		287		0%
Me 2 Junction 9 Me 2 Junction Milk Read of Junction Milk Retail 1 A 9 Sit to Me 2 Junction Milk Retail 1 A 9 Milmwick Road of Junc	1	·				70/		_	$\vdash$	- C04	_	301		- 7%
A49 Stru M62 EB	1													5%
## A4SB ## A4SB ## A4SB ## A2Z	inoz sanctian s													12%
A49 St to M62 WB   A49 St to M62 WB   A49 St to M62 WB to					$\overline{}$									-2%
M62 WBto A49 NB 53 51 -2 -4% 44 -3 -6% 31 14 319 331 12 2					$\overline{}$									-4%
A49 Winwick Rad									3					4%
Birch Ave Birch Ave		M62 WBta A49 NB	53	51	-2	-4%	47	44	-3	-6%	39	37	-2	-5%
A49 Winwick Road @ Poplars Avenue	A49 Winwick Rd/	A49 SB to Birch Ave	3	8	5	167%	3	7	4	133%	3	7	4	133%
Page	Birch Ave	Birch Rd to A49 SB	9	21	12	133%	9	21	12	133%	9	25	16	178%
Poplars Avenue	A49 Winwick Pand @	A49 NB to Woburn Rd	0	0		-	0	0	0	-	0	0	0	-
A49 Set o Sandy Ln West 104 133 9 9% 134 823 9 136 856 880 24 A9 Set o Sandy Ln West 104 133 9 9% 134 138 154 21 16% 172 167 5.5 A9 A9 Set o Cramwell Ave to A49 NB 138 139 1 136 148 148 16 0 0% 167 173 6 Cramwell Ave to A49 NB 138 139 1 136 142 141 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1		A49 NB	583	622	39	7%	612	658	46	8%	689	<b>7</b> 53	64	9%
A49 SB	T apiais Aveilae		805	804			814	823		1%	856	880	24	3%
A49 Winwick Road @ Junction NINE Retail Park  A49 Sisto Long Lane  A49 Sisto Lang Lane  A59 Sisto Lang Lane  A50 Sisto Lang		·												-3%
A49 Winwick Road Ø Junction NINE Retail Description NINE NINE NINE NINE NINE NINE NINE NIN									-					-2%
Cramwell Ave to Sandy Ln West   154   170   16   10%   166   180   14   8%   335   370   370   370														4%
Ad9 Winwick Road   A574 Cramwell Ave to A49 SB   266   274   8   3%   14   5%   16   17   1   6%   16   19   3   3   3   3   3   3   3   3   3									-					9%
A574 Cramwell Avenue/Sandy Lane   A49 NB	A49 Winwick Poad/								$\overline{}$					16% 10%
Avenue/Sandy Lane									-			$\overline{}$	$\overline{}$	19%
Nest   A49 NBto Sandy Ln West   28   38   10   36%   A49 NBto Cromwell Ave   137   142   5   496   149   153   4   396   163   176   13   13   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   15		· · ·											-	5%
A49 NBto Cromwell Ave 137 142 5 4% Sandy Ln West to A49 NB 90 124 34 38% Sandy Ln West to A49 NB 90 124 34 38% Sandy Ln West to A49 SB 11 5 -6 -55% Sandy Ln West to Cromwell Ave 126 189 63 50% A49 NB to Junction NINE Retail to A49 SB 41 41 0 0% A49 SB 10nction NINE Retail to A49 NB 47 49 2 4% A49 SB 10nction NINE Retail to A49 NB 47 49 2 4% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 6 67 -1 -19% A49 SB 10nction NINE Retail 168 637 639 2 0% A49 SB 10nction NINE Retail 168 637 639 2 0% A49 SB 10nction NINE Retail 17  17 0 0% A49 SB 10nction NINE Retail 17  17 0 0% A49 SB 10nction NINE Retail 17  17 0 0% A49 SB 10nction NINE Retail 17  17 0 0% A49 SB 10nction NINE Retail 188 637 639 2 0% A49 SB 10nction NINE Retail 188 65% A49 SB 10nction NINE Retail 188 65% A49 SB 128 121 83 65% 142 203 61 43% 172 231 59 10nction NINE Retail 188 128 121 83 65% 142 203 61 43% 172 231 59 10nction NINE Retail 189 128 133 5 4%					$\overline{}$				-					36%
Sandy Ln West to A49 NB	1													8%
Sandy Ln West to Sandy Ln (U-turn   0   0   0   0   0   0   0   0   0	1				-				<u> </u>					30%
Sandy Ln West to A49 SB 11 5 -6 -55% Sandy Ln West to Cromwell Ave 126 189 63 50% A49 NB A49 NB A49 NB A49 NB A49 NB A49 NB A49 SB 141 41 0 0 0% Junction NINE Retail to A49 SB 784 782 -2 0% A49 SB to Junction NINE Retail 68 67 -1 -1% A49 SB to Junction NINE Retail 68 67 -1 -1% A49 SB Long Lane A49 SB 117 117 0 0% A49 SB 637 639 2 0% A49 NB A49	1	- r				-				-				-
A49 NB	1		11	5	-6	-55%	3	6	3	100%	3	5	2	67%
A49 Winwick Road @ Junction NINERetail		Sandy Ln West to Cromwell Ave	126	189	63	50%	131	182	51	39%	145	192	47	32%
Junction NINE Retail		A49 NB							-		534		45	8%
Junction NINE Retail   Park	A49 Winwick Road @						_		-				-	17%
Park   Junction NINERetail to A49 NB	_				-				$\overline{}$					-8%
A49 SBto Junction NINE Retail 68 67 -1 -1% 69 71 2 3% 74 79 5 A49 SBto Hawleys Lane 117 117 0 0% A49 SBto Long Lane 55 59 4 7% A49 NB to Long Lane 55 59 4 7% A49 NB Long Lane A49 SB Long Lane A49 SB Long Lane 51 84 350 6 2% Long Lane A49 SB Long Lane A49 SB 128 211 83 65% Long Lane to A49 SB Long Lane 128 133 5 4% 137 143 6 4% 128 130 2	I .				$\overline{}$				-					8%
A49 SB to Hawleys Lane													12	1%
A49 SBto Long Lane													5	7%
A49 SB					$\overline{}$								-	3%
A49 NBto Hawleys Lane		_							-					-12% 1%
A49 Winwick Road/ Hawleys Lane/A50 Long Lane to A49 SB					$\overline{}$									1% 7%
A49 Winwick Road/ Hawleys Lane/A50 Long Lane to A49 SB Long Lane to Hawleys Lane 128 133 5 496 137 143 6 496 128 130 2		·			-				-			$\overline{}$		11%
Hawleys Lane / ASD Long Lane to A49 SB     128     211     83     65%     142     203     61     43%     172     231     59       Long Lane to Hawleys Lane     128     133     5     4%     137     143     6     4%     128     130     2									-					10%
Long Lane to Hawleys Lane 128 133 5 4% 137 143 6 4% 128 130 2	1 ' '				-									34%
	LongLane	_			$\overline{}$									2%
		Long Lane to A49 NB	56	62	6	11%	58		9	16%	59	66	7	12%
Hawleys Lane to Long Lane 41 43 2 5% 44 42 -2 -5% 42 43 1			41	43	2	5%	44	42	-2	-5%	42	43	1	2%
Hawleys Lane to A49 SB 0 0 0 0 - 0 0 0 - 0 0		Hawleys Lane to A49 SB			$\overline{}$	-			0		0	_	0	
Hawleys Lane to A49 NB 75 77 2 3% 88 90 2 2% 92 96 4		Hawleys Lane to A49 NB	<b>7</b> 5	77	2	3%	88	90	2	2%	92	96	4	4%

09:00-09:30

#### PM VOLUME COMPARISON – 16:00-17:00 (WARM-UP PERIOD)

							16:00-	-17:00					
			2022				20	27			20	32	
	Junction/ Movement	Vehicle	e Flow	Differ	епсе	Vehicl	e Flow	Differ	епсе	Vehicl	e Flow	Differ	епсе
Junction	Approach	DoMin	DoSom	Actual	96	DoMin	DoSom	Actual	%	DaMin	DoSom	Actual	%
Juliction	Арргияси	Dulvilli	Dusuiii	Actual	70	Dulyiiii	Dusuiii	Actual	70	Dulyiiii	Dusuiii	Actual	70
	A49 NB to Winwick Park Ave	83	82	-1	-1%	86	91	5	6%	91	96	5	5%
	A49 NB	872	8 <b>7</b> 5	3	0%	903	918	15	2%	935	929	-6	-1%
	A49 NB to Winwick Link Rd	855	849	-6	-1%	903	893	-10	-1%	941	931	-10	-1%
	Winwick Park Ave to A49 NB	3	24	21	700%	3	3	0	0%	4	25	21	525%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	4	6	2	50%	4	5	1	25%	5	7	2	40%
A49 Winwick Link	Winwick Park Ave to A49 SB	10	22	12	120%	9	10	1	11%	12	24	12	100%
Road/WinwickPark	A49 SBt a Winwick Link Rd	9	18	9	100%	63	64	1	2%	63	64	1	2%
Ачепие	A49 SB	496	496	0	0%	536	548	12	2%	561	566	5	1%
	A49 SB to Winwick Park Ave	13	11	-2	-15%	12	14	2	17%	13	14	1	8%
	Winwick Link Rd to A49 SB	860	859	-1	0%	899	902	3	0%	951	952	1	0%
	Winwick Link Rd to Winwick Park Ave	17	18	1	6%	17	17	0	0%	19		0	0%
	Winwick Link Rd to A49 NB	0	2	2	-	40	41	1	3%	40	42	2	5%
	A49 NB	1566	1543	-23	-1%	1600	1606	6	0%	1661	1646	-15	-1%
	A49 NBto Delp Ln	101	106	5	5%	104	1020	-2	-2%	111	1040	-3	-3%
A49 Newton Road/	A49SB	1262	1267	5	0%	1339	1357	18	1%	1416	1434	18	1%
Delph Lane	A49 SB to Delph Ln	93	97	4	496	93	92	-1	-1%	95	92	-3	-3%
Delph cane	'		293		7%	322	325	-1				-3 0	-3% 0%
	Delph Lnto A49 NB	275							1%	342	342	-	
	Delph Ln to A49 SB	150	159	9	6%	167	167	0	0%	174	173	-1	-1%
	A49 NB to M62 WB	366	378	12	3%	383	393	10	3%	406	413	7	2%
	A49 NB	1003	976	-27	-3%	994	995	1	0%	1025	1019	-6	-1%
	A49 NBto M62 EB	219	222	3	1%	235	225	-10	-4%	240	241	1	0%
	A49 NBto A49 SB (U-Turn)	4	14		250%	4	16	12	300%	- 4	14	10	250%
	M62 EBto A49 NB	616	630	14	2%	658	660	2	0%	691	684	-7	-1%
M62 Junction 9	M62 EBta A49 SB	472	539	67	14%	505	512	7	1%	533	620	87	16%
	A49 SB to M62 EB	150	145	-5	-3%	163	163	0	0%	169		-4	-2%
	A49SB	886	916	30	3%	922	943	21	2%	977	1011	34	3%
	A49 SB to M62 WB	341	332	-9	-3%	382	379	-3	-1%	403		-15	-4%
	M62 WBto A49 SB	273	303	30	11%	286	295	9	3%	302	330	28	9%
	M62 WBta A49 NB	58	57	-1	-2%	62	61	-1	-2%	65	63	-2	-3%
A49 Winwick Rd/	A49 SB to Birch Ave	19	36	17	89%	22	35	13	59%	22	37	15	68%
Birch Ave	Birch Rd to A49 SB	0	12	12	-	0	12	12	-	0	12	12	-
MAO MICE	A49 NB to Woburn Rd	0	0	0	-	0	0	0	-	0	0	0	-
A49 Winwick Road @	A49 NB	1620	1621	1	0%	1649	1659	10	1%	1712	1723	11	1%
Poplars Avenue	A49 SB	1610	1736	126	8%	1687	1734	47	3%	1784	1938	154	9%
	A49 SB to Sandy Ln West	266	414	148	56%	288	339	51	18%	332	483	151	45%
	A49 SB	934	926	-8	-196	977	966	-11	-1%	1008	1004	-4	0%
	A49 SBt a Cramwell Ave	343	324		-6%	365	358	-7	-2%	3 <b>7</b> 8		-13	-3%
	Cromwell Ave to A49 NB	243	232	-11	-5%	223	215	-8	-4%	226	218	-8	-4%
	Cromwell Ave to Sandy Ln West	212	273	61	29%	237	275	38	16%	247	312	65	26%
A49 Winwick Road/	Cromwell Ave to A49 SB	398	376	-22	-6%	398	387	-11	-3%	420	401	-19	-5%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	36	33	-3	-8%	37	36	-1	-3%	38		-1	-3%
Avenue/Sandy Lane		1220	1197	-23	-2%	1244	1226	-18	-1%	1280	1297	17	1%
West	A49 NB to Sandy Ln West	73	103	30	41%	1244	173	53	44%	146	170	24	16%
	A49 NBto Cromwell Ave	500	503	30	1%	517	513	-4	-1%	529	530	1	0%
	Sandy Ln West to A49 NB	190	225	35	18%	210	253	43	20%	238	240	2	1%
	Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn	190	225	35	1070	210	253	93	20%	238	240	0	
	Sandy Ln West to Sandy Ln (O-turn Sandy Ln West to A49 SB	42	66	24	- 5 <b>7%</b>	41	5 <b>7</b>	16	39%	47	55	8	17%
		318	406	88	28%	348	400	52	15%	378	410	32	8%
	Sandy Ln West to Cromwell Ave							-					
	A49 NB	1674	1683	9	1%	1739	1768	29	2%	1788		21	1%
A49 Winwick Road @	A49 NB to Junction NINE Retail	90	91	1	1%	98	98	0	0%	99	104	5	5%
Junction NINE Retail	Junction NINE Retail to A49 SB	201	218	17	8%	194	219	25	13%	187		19	10%
Park	Junction NINE Retail to A49 NB	146	147	1	1%	174	179	5	3%	203	223	20	10%
	A49SB	1222	1205	-17	-1%	1285	1263	-22	-2%	1324		-22	-2%
	A49 SB to Junction NINE Retail	95	109	14	15%	100	118	18	18%	112	124	12	11%
	A49 SB to Hawleys Lane	111	104	-7	-6%	111	107	-4	-4%	117	115	-2	-2%
	A49SBto Long Lane	168	190	22	13%	167	190	23	14%	161	163	2	1%
	A49SB	1082	1067	-15	-1%	1116	1100	-16	-1%	1162	1156	-6	-1%
	A49 NBto Hawleys Lane	82	84	2	2%	86	85	-1	-1%	89	92	3	3%
A49 Winwick Road/	A49 NBto Long Lane	191	212	21	11%	199	237	38	19%	204		21	10%
Hawleys Lane/A50	A49 NB	1386	1398	12	1%	1457	1468	11	1%	1479	1497	18	1%
Long Lane	Long Lane to A49 SB	206	325	119	58%	237	358	121	51%	268	361	93	35%
ruis raile	Long Lane to Hawleys Lane	162	172	10	6%	165	176	11	7%	170	1 <b>7</b> 5	5	3%
	Long Lane to A49 NB	99	98	-1	-1%	103	106	3	3%	101	100	-1	-1%
	Hawleys Lane to Long Lane	116	128	12	10%	120	126	6	5%	123	129	6	5%
	Hawleys Lane to A49 SB	15	16	1	7%	16	16	0	0%	17		1	6%
			290	0	0%		318	16	5%				3%
	Hawleys Lane to A49 NB	290	250	יט ן	0%1	302	3101	101	2701	331	342	11	2/4

16:00-17:00

#### PM VOLUME COMPARISON - 17:00-18:00 (PEAK PERIOD)

							17:00-	10.00					
			20					27			20		
	Junction/ Movement	Vehicl	e Flow	Differ	епсе	Vehicl	e Flow	Differ	епсе	Vehicl	e Flow	Differ	епсе
Junction	Approach	DoMin	DaSam	Actual	96	DoMin	DoSom	Actual	96	DoMin	DoSom	Actual	96
					201		- 44				4.00		
	A49 NB to Winwick Park Ave	86	88	2	2%	89	94	5	6%	99	100	20	1%
	A49 NB	915	928	13	1%	935	960	25	3%	976	948	-28	-3%
	A49 NB to Winwick Link Rd	917	922	5	1%	950	942	-8	-1%	998	978	-20	-2%
M40 N	Winwick Park Ave to A49 NB	4	40	36	900%	4	4	0	0%	5	41	36	720%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	7	8	1	14%	8	7	-1	-13%	9	9	0	0%
A49 Winwick Link	Winwick Park Ave to A49 SB	14	30	16	114%	15	15	0	0%	18	33	15	83%
1	A49 SB to Winwick Link Rd	12	21	9	75%	75	78	3	4%	74	76	2	3% -3%
Avenue	A49 SB	537	532	-5	-1%	584	606	22	4%	611	592	-19	-3% 0%
	A49 SB to Winwick Park Ave	14	15	1	7%	14	15	1	7%	15	15	0	
	Winwick Link Rd to A49 SB	848	832	-16	-2%	913	923	10	1%	960	870	-90	-9%
	Winwick Link Rd to Winwick Park Ave	18	18	0	0%	18	18	0	0%	19	17	-2	-11% 3%
	Winwick Link Rd to A49 NB A49 NB	1500	2	2 - 13	484	40	41	1 19	3%	40	41	1	
		1598	1611	6	1% 5%	1622	1641	19	1%	1711	1686	-25	-1% 1%
A49 Newton Road/	A49 NBto Delp Ln	110	116 12 <b>7</b> 3	-14		118	118	32	0% 2%	122	123	07	-6%
	A49 SB	1287			-1%	1405	1437			1477	1384	-93	
Delph Lane	A49 SB to Delph Ln	93	98	5	5% 494	101	101	0	0%	103	94	-9	-9%
	Delph Lata A49 NB	313	324	11	496	347	352	5	1%	356	349	-7	-2%
	Delph Ln to A49 SB	193	201	8	4%	208	208	0	0%	214	212	-2 12	-1%
	A49 NB to M62 WB	403	433	30	7%	427	438	11	3%	451	463	12	3%
	A49 NB	1085	1079	-6	-1%	1074	1086	12	1%	1132	1116	-16	-1%
	A49 NBto M62 EB	243	245	2	1%	252	246	-6	-2% FC794	271	268	-3	-1%
	A49 NBto A49 SB (U-Turn)	562	15 580	11 18	275% 3%	603	20 611	17 8	56 <b>7</b> %	634	16 62 <b>7</b>	14 -7	700% -1%
M62 Junction 9	M62 EBta A49 NB			72	16%								17%
Wie Z Junction 9	M62 EBta A49 SB	444	516	-7	-4%	479	492	13 3	3% 2%	503 18 <b>7</b>	591 1 <b>7</b> 0	88 -1 <b>7</b>	-9%
	A49 SB to M62 EB	169	162 933	20	2%	1 <b>7</b> 8	181	33	3%		1008		-9% -4%
	A49 SB to M62 WB	913 3 <b>7</b> 0	350	-20	-5%		1032 429	33		1045	405	-37	
				-20 35		429			0%	451		-46	-10%
	M62 WBta A49 SB	281	316		12%	303	315	12	4%	324	355	31	10%
	M62 WBta A49 NB	62	61	-1	-2%	65	65	0	0%	69	67	-2	-3%
A49 Winwick Rd/	A49 SB to Birch Ave	19	35	16	84%	20	38	18	90%	20	38	18	90%
Birch Ave	Birch Rd to A49 SB	0	11	11 -		0	11	11	-	0	11	11	
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0 -		0	0	0	-	0	0	0	
Poplars Avenue	A49 NB	1 <b>7</b> 33	1769	36	2%	1751	1792	41	2%	1846	1864	18	1%
	A49SB	1598	1 <b>7</b> 39	141	9%	1758	1819	61	3%	1842	1930	88	5%
	A49 SB to Sandy Ln West	254	411	157	62%	300	357	57	19%	339	486	147	43%
	A49SB	941	944	3	0%	1035	1036	1	0%	1056	1038	-18	-2%
	A49 SB to Cromwell Ave	347	333	-14	-4%	372	372	0	0%	388	371	-17	-4%
	Cromwell Ave to A49 NB	261	251	-10	-4%	232	215	-17	-7%	230	219	-11	-5%
	Cromwell Ave to Sandy Ln West	223	292	69	31%	243	282	39	16%	258	331	<b>7</b> 3	28%
A49 Winwick Road/	Cromwell Ave to A49 SB	442	422	-20	-5%	433	417	-16	-4%	451	445	-6	-1%
A574 Cromwell	Cramwell Ave to Cramwell Ave (U-turn)	42	39	-3	-7%	43	42	-1	-2%	43	44	1	2%
Avenue/Sandy Lane		1257	1241	-16	-1%	1283	1285	2	0%	1346	1368	22	2%
West	A49 NB to Sandy Ln West	77	111	34	44%	121	178	57	47%	154		27	18%
	A49 NB to Cromwell Ave	496	508	12	2%	516	517	1	0%	539	545	6	1%
	Sandy Ln West to A49 NB	206	270	64	31%	236	286	50	21%	266	270	4	2%
	Sandy Ln West to Sandy Ln (U-turn	0	0	0 -		0	0	0	-	0	0	0	-
	Sandy Ln West to A49 SB	48	74	26	54%	43	60	17	40%	46	56	10	22%
	Sandy Ln West to Cromwell Ave	349	458	109	31%	384	445	61	16%	418	447	29	7%
	A49 NB	1676	1705	29	2%	1 <b>7</b> 36	1 <b>7</b> 88	52	3%	1820	1856	36	2%
A49 Winwick Road @	A49 NB to Junction NINE Retail	89	94	5	6%	98	102	4	4%	109	118	9	8%
Junction NINE Retail	Junction NINE Retail to A49 SB	193	194	1	1%	191	215	24	13%	185	200	15	8%
Park	Junction NINE Retail to A49 NB	146	145	-1	-1%	178	180	2	1%	208	228	20	10%
	A49SB	1350	1341	-9	-1%	1382	1366	-16	-1%	1437	1415	-22	-2%
	A49 SB to Junction NINE Retail	101	117	16	16%	107	130	23	21%	122	128	6	5%
	A49 SB to Hawleys Lane	120	114	-6	-5%	124	124	0	0%	128	123	-5	-4%
	A49SBto Long Lane	183	203	20	11%	185	214	29	16%	167	179	12	7%
	A49SB	1215	1192	-23	-2%	1307	1283	-24	-2%	1317	1309	-8	-1%
	A49 NB to Hawleys Lane	77	80	3	4%	82	85	3	4%	88	91	3	3%
A49 Winwick Road/	A49 NB to Long Lane	188	214	26	14%	192	237	45	23%	205	233	28	14%
Hawleys Lane/A50	A49 NB	1358	1393	35	3%	1424	1466	42	3%	1484	1535	51	3%
Long Lane	Long Lane to A49 SB	219	349	130	59%	238	3 <b>7</b> 9	141	59%	289	402	113	39%
Lungtane	Long Lane to Hawleys Lane	178	187	9	5%	179	194	15	8%	193	206	13	7%
	Long Lane to A49 NB	107	107	0	0%	104	108	4	4%	110	112	2	2%
	Hawleys Lane to Long Lane	131	144	13	10%	133	138	5	4%	140	141	1	1%
	Hawleys Lane to A49 SB	19	19	0	0%	18	18	0	0%	19	19	0	0%
	Hawleys Lane to A49 NB	307	305	-2	-1%	311	320	9	3%	339	338	-1	0%
	•												

17:00-18:00

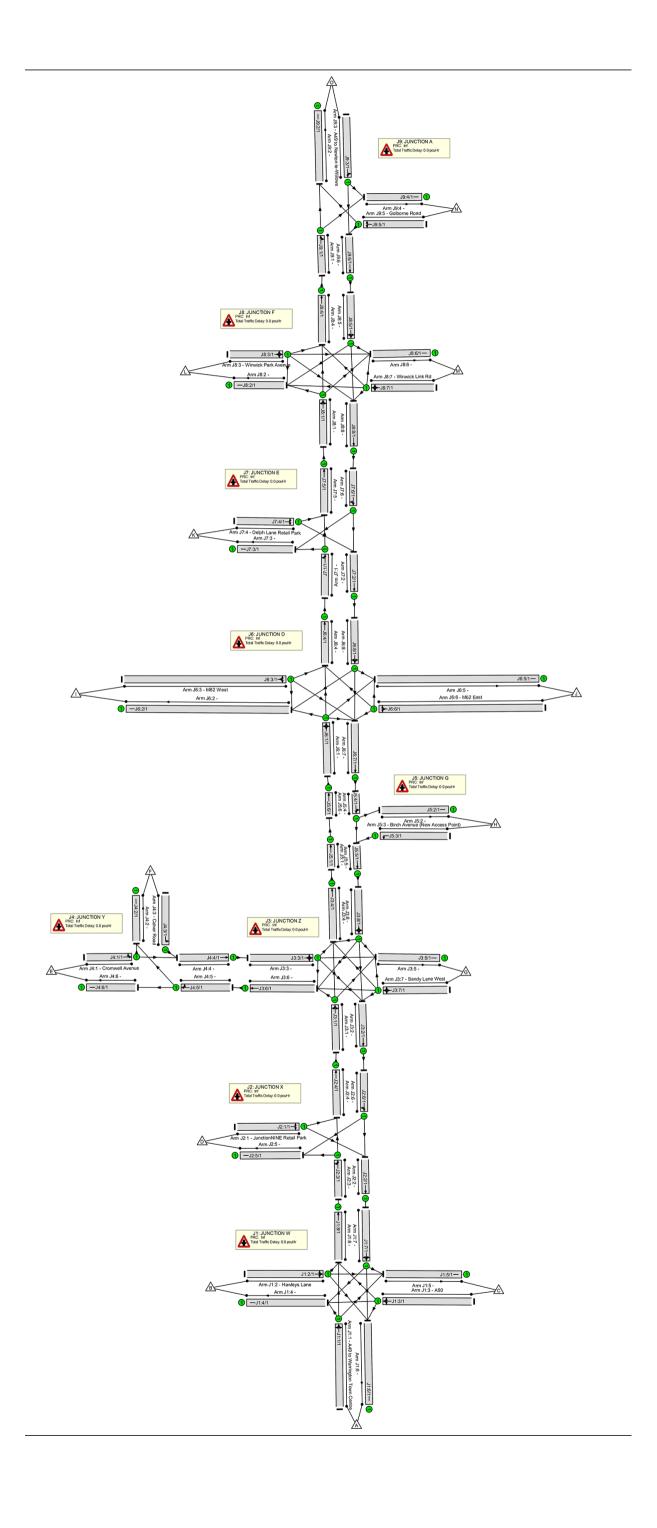
#### PM VOLUME COMPARISON – 18:00-18:30 (COOL-DOWN PERIOD)

		2022				10:00-							
	1							27			20		
	Junction/ Movement	Vehicl	e Flow	Differ		Vehicl	e Flow	Differ		Vehicl	e Flow	Differ	епсе
Junction	Approach	DoMin	DoSom	Actual	%	DoMin	DoSom	Actual	%	DoMin	DoSom	Actual	96
	A49 NB to Winwick Park Ave	41	42	1	2%	43	43	0	0%	46	45	-1	-2%
	A49 NB	391	403	12	3%	416	438	22	5%	448	454	6	1%
	A49 NB to Winwick Link Rd	404	407	3	1%	430	436	6	1%	454	451	-3	-1%
	Winwick Park Ave to A49 NB	3	22	19	633%	3	3	0	0%	4	22	18	450%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	4	6	2	50%	5	5	0	0%	4	6	2	50%
A49 Winwick Link	Winwick Park Ave to A49 SB	9	17	8	89%	8	9	1	13%	9	20	11	122%
		4	9	5	125%	31	35	4	13%	31	34	3	10%
Avenue	A49 SB	284	296	12	4%	301	314	13	4%	319	329	10	3%
	A49 SB to Winwick Park Ave	8	8	0	0%	7	8	1	14%	470	8	0	0%
	Winwick Link Rd to A49 SB Winwick Link Rd to Winwick Park Ave	425 9	437 9	12 0	3% 0%	437	431 9	-6 0	-1% 0%	471 9	458	-13 0	-3% 0%
	Winwick Link Rd to A49 NB	0	1	1 -	U70	19	19	0	0%	19	21	2	11%
	A49 NB	706	707	1	0%	724	751	27	4%	760	762	2	0%
	A49 NBto Delp Ln	49	49	0	0%	53	57	4	8%	56	54	-2	-4%
A49 Newton Road/	A49SB	677	711	34	5%	702	706	4	1%	758	760	2	0%
Delph Lane	A49 SB to Delph Ln	50	55	5	10%	52	50	-2	-4%	51	52	1	2%
	Delph Ln to A49 NB	137	147	10	7%	170	172	2	1%	193	190	-3	-2%
	Delph Ln to A49 SB	<b>7</b> 5	81	6	8%	90	89	-1	-1%	97	96	-1	-1%
	A49 NBto M62 WB	1 <b>7</b> 3	183	10	6%	181	193	12	7%	196	205	9	5%
	A49 NB	461	462	1	0%	466	489	23	5%	492	498	6	1%
	A49 NB to M62 EB	103	110	7	7%	114	116	2	2%	121	120	-1	-1%
	A49 NB to A49 SB (U-Turn)	2	9	7	350%	1	10	9	900%	2	9	7	350%
	M62 EB to A49 NB	253	259	6	2%	269	276	7	3%	282	278	-4	-1%
M62 Junction 9	M62 EBto A49 SB	204	234	30	15%	211	213	2	1%	228	263	35	15%
	A49 SB to M62 EB	75	77	2	3%	81	79	-2	-2%	87	83	-4	-5%
	A49 SB	497	532	35 4	7%	501	507	6 0	1%	538	552	14	3% -4%
	A49 SB to M62 WB M62 WBto A49 SB	192 134	196 147	13	2% 10%	214 138	214 141	3	0% 2%	233 143	224 160	-9 17	12%
	M62 WBta A49 NB	34	33	-1	-3%	35	36	1	3%	36	36	17	0%
A49 Winwick Rd/	A49 SBt a Birch Ave	9	21	12	133%	11	20	9	82%	12	23	11	92%
Birch Ave	Birch Rd to A49 SB	0	6	6 -	13370	0	6	6	- 0270	0	6	6	
	A49 NR+n Wnhurn Rd	0	0			0		0	_	0	0	0	
A49 Winwick Road @	A49 NB	743	770	27	4%	761	807	46	6%	813	839	26	3%
Poplars Avenue	A49SB	835	918	83	10%	849	871	22	3%	915	988	73	8%
	A49 SB to Sandy Ln West	140	223	83	59%	152	177	25	16%	176	251	75	43%
	A49SB	517	529	12	2%	546	534	-12	-2%	558	545	-13	-2%
	A49 SB to Cromwell Ave	191	182	-9	-5%	203	194	-9	-4%	210	204	-6	-3%
	Cromwell Ave to A49 NB	122	117	-5	-4%	105	104	-1	-1%	118	109	-9	-8%
	Cromwell Ave to Sandy Ln West	106	140	34	32%	119	147	28	24%	134	165	31	23%
A49 Winwick Road/	Cramwell Ave to A49 SB	214	200	-14	-7%	212	215	3	1%	240	214	-26	-11%
A574 Cromwell	Cramwell Ave to Cramwell Ave (U-turn)	21	20	-1	-5%	24		-2	-8%	23	21	-2	-9%
Avenue/Sandy Lane		53 <b>7</b>	542	5	1%	560	559	-1	0%	579	609	30	5%
West	A49 NB to Sandy Ln West	35	52		49%	56		27	48%	67	84	17	25%
	A49 NBto Cromwell Ave	208	208	0	0%	216	220	4	2%	223	232	9	4%
	Sandy Ln West to A49 NB	89	114	25	28%	97		48	49%	110	138	28	25%
	Sandy Ln West to Sandy Ln (U-turn Sandy Ln West to A49 SB	0 19	0 32	0 - 13	68%	18	0 31	0 13	72%	19	0 29	0 10	- 53%
	Sandy Ln West to A4958 Sandy Ln West to Cromwell Ave	136	196	60	44%	154	225	71	72% 46%	174	226	52	30%
	A49 NB	726	741	15	2%	768	803	35	5%	806	852	46	6%
	A49 NB to Junction NINE Retail	40	44	4	10%	45	45	35	0%	46	52	46 6	13%
A49 Winwick Road @	Junction NINE Retail to A49 SB	77	96	19	25%	67	84	17	25%	68	75	7	
Junction NINE Retail	Junction NINE Retail to A49 NB	48	56	8	17%	56	59	3	5%	65	79	14	22%
Park	A49 SB	704	697	-7	-1%	735	726	-9	-1%	758	724	-34	
	A49 SB to Junction NINE Retail	49	64	15	31%	56	67	11	20%	62	66	4	6%
	A49 SB to Hawleys Lane	68	70	2	3%	66	66	0	0%	69	68	-1	-1%
	A49SBto Long Lane	102	109	7	7%	93	108	15	16%	93	91	-2	-2%
	A49SB	615	616	1	0%	633	625	-8	-1%	672	663	-9	-1%
	A49 NB to Hawleys Lane	34	35	1	3%	34		1	3%	37	41	4	11%
A49 Winwick Road/	A49 NB to Long Lane	82	93	11	13%	86		21	24%	90	104	14	
Hawleys Lane/A50	A49 NB	5 <b>7</b> 3	588	15	3%	597	613	16	3%	630	669	39	6%
Long Lane	Long Lane to A49 SB	101	173	72	71%	116	191	<b>7</b> 5	65%	134	204	70	52%
_	Long Lane to Hawleys Lane	86	84		-2%	85		5	6%	87	97	10	11%
			E4	2	496	54	58	4	7%	56	57	1	2%
	Long Lane to A49 NB	52	54	$\overline{}$					0.004			-	A87
	Hawleys Lane to Long Lane	61	67	6	10%	66	74	8	12%	66	72	6	9%
	_			$\overline{}$					12% 0% 11%			6 0 10	9% 0% 6%

18:00-18:30

## **APPENDIX B:**

LinSig NETWORK DIAGRAM



## **APPENDIX C:**

QUEUE DATA

#### AM AVERAGE QUEUE LENGTH COMPARISON

07:00-08:00					
	- (	1741	ובחר	ne.	OΛ

		2022			
	Junction/ Movement	Length (metres) Difference		ence	
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	11	11	0	0%
	A49 NB	11	11	0	0%
	A49 NB to Winwick Link Rd	11	11	0	0%
	Winwick Park Ave to A49 NB	4	4	0	1%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	4	4	0	1%
A49 Winwick Link	Winwick Park Ave to A49 SB	4	4	0	1%
Road/Winwick Park	A49 SB to Winwick Link Rd	33	38	5	16%
Avenue	A49 SB	33	38	5	16%
	A49 SB to Winwick Park Ave	33	38	5	16%
	Winwick Link Rd to A49 SB	2	2	0	-2%
	Winwick Link Rd to Winwick Park Ave	3	3	0	-2%
	Winwick Link Rd to A49 NB	3	3	0	-2%
	A49 NB	19	20	1	6%
	A49 NB to Delp Ln	19	20	1	6%
A49 Newton Road/	A49 SB	27	31	4	15%
Delph Lane	A49 SB to Delph Ln	11	11	0	-3%
	Delph Ln to A49 NB	6	6	0	2%
	Delph Ln to A49 SB	8	8	0	1%
	A49 NB to M62 WB	9	10	1	8%
	A49 NB	9	10	1	8%
	A49 NB to M62 EB	9	10	1	8%
	A49 NB to A49 SB (U-Turn)	9	10	1	8%
	M62 EB to A49 NB	37	122	85	229%
M62 Junction 9	M62 EB to A49 SB	37	122	85	229%
	A49 SB to M62 EB	24	25	1	3%
	A49 SB	24	25	1	3%
	A49 SB to M62 WB	24	25	1	3%
	M62 WB to A49 SB	15	15	0	1%
	M62 WB to A49 NB	15	15	0	1%

2027				
Length (	metres)	Difference		
DoMin	DoSom	Actual (metres)	%	
13	13	0	-1%	
13	13	0	-1%	
13	13	0	-1%	
4	4	0	0%	
4	4	0	0%	
4	4	0	0%	
31	32	1	4%	
31	32	1	4%	
31	32	1	4%	
3	3	0	-3%	
4	4	0	-2%	
4	4	0	-2%	
23	24	1	7%	
23	24	1	5%	
31	31	0	1%	
11	10	-1	-7%	
6	6	0	5%	
7	7	0	2%	
10	10	0	1%	
10	10	0	1%	
10	10	0	1%	
10	10	0	1%	
18	53	36	203%	
18	53	36	203%	
29	29	-1	-2%	
29	29	-1	-2%	
29	29	-1	-2%	
17	16	0	-1%	
17	16	0	-1%	

2032				
Length (metres)		Difference		
DoMin	DoSom	Actual (metres)	%	
15	16	0	2%	
15	16	0	2%	
15	16	0	2%	
4	4	0	0%	
4	4	0	0%	
4	4	0	0%	
30	27	-3	-10%	
30	27	-3	-10%	
30	27	-3	-10%	
3	3	0	-3%	
4	4	0	-2%	
4	4	0	-2%	
23	18	-5	-20%	
23	18	-5	-20%	
32	25	-6	-20%	
11	22	12	107%	
6	8	2	27%	
8	8	1	7%	
11	12	1	11%	
11	12	1	11%	
11	12	1	11%	
11	12	1	11%	
20	42	22	109%	
20	42	22	109%	
31	36	6	18%	
31	36	6	18%	
31	36	6	18%	
18	18	0	1%	
18	18	0	1%	

#### 07:00-08:00

	Junction/ Movement	Length (i	metres)	Differ	ence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
Poplars Avenue	A49 NB	0	0	0	-
ropial's Aveilue	A49 SB	0	0	0	-
	A49 SB to Sandy Ln West	88	79	-10	-11%
	A49 SB	88	79	-10	-11%
	A49 SB to Cromwell Ave	88	79	-10	-11%
	Cromwell Ave to A49 NB	11	13	1	12%
	Cromwell Ave to Sandy Ln West	19	22	3	13%
A49 Winwick Road/	Cromwell Ave to A49 SB	19	22	3	13%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	19	22	3	13%
Avenue/ Sandy Lane	A49 NB	2	3	0	22%
West	A49 NB to Sandy Ln West	2	3	0	22%
	A49 NB to Cromwell Ave	2	3	0	22%
	Sandy Ln West to A49 NB	9	41	32	340%
	Sandy Ln West to Sandy Ln (U-turn	9	41	32	340%
	Sandy Ln West to A49 SB	9	41	32	340%
	Sandy Ln West to Cromwell Ave	9	41	32	340%
	A49 NB	2	2	0	3%
A49 Winwick Road @	A49 NB to Junction NINE Retail	2	2	0	3%
Junction NINE Retail	Junction NINE Retail to A49 SB	6	6	0	-1%
Park	Junction NINE Retail to A49 NB	4	5	0	5%
Park	A49 SB	7	6	0	-4%
	A49 SB to Junction NINE Retail	9	9	0	-2%
	A49 SB to Hawleys Lane	21	20	-1	-4%
A49 Winwick Road/ Hawleys Lane/ A50	A49 SB to Long Lane	1	0	-1	-57%
	A49 SB	54	55	0	0%
	A49 NB to Hawleys Lane	13	15	1	9%
	A49 NB to Long Lane	6	6	0	5%
	A49 NB	13	15	1	9%
	Long Lane to A49 SB	10	36	26	259%
Long Lane	Long Lane to Hawleys Lane	43	60	17	40%
	Long Lane to A49 NB	43	60	17	40%
	Hawleys Lane to Long Lane	6	7	0	2%
	Hawleys Lane to A49 SB	6	7	0	2%
	Hawleys Lane to A49 NB	3	3	0	2%

Length (r			
	Length (metres) Difference		
DoMin	Dosom	Actual	%
DOMIN	DoSom	(metres)	70
0	0	0	-
0	0	0	-
0	0	0	-
0	0	0	-
0	0	0	-100%
81	72	-8	-10%
81	72	-8	-10%
81	72	-8	-10%
14	16	1	10%
24	27	3	11%
24	27	3	11%
24	27	3	11%
3	2	0	-3%
3	2	0	-3%
3	2	0	-3%
9	40	31	327%
9	40	31	327%
9	40	31	327%
9	40	31	327%
5	5	0	8%
5	5	0	8%
6	6	0	-5%
5	5	0	0%
7	7	0	-6%
10	10	0	3%
29	23	-6	-19%
0	0	0	-
67	65	-2	-3%
17	20	3	17%
7	7	0	5%
17	20	3	17%
9	20	11	128%
31	42	11	36%
31	42	11	36%
7	7	0	-2%
7	7	0	-2%
4	4	0	-3%

Length (metres)         Difference           DoMin         DoSom         Actual (metres)         %           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         0         0         -           0         0         0         -           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         26%           32         40         8         26% <th colspan="5">2032</th>	2032				
DoMin         DoSom         (metres)         %           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         26%           32         40         8         26%           32         40         8	Length (metres)		Difference		
Company	DoMin	Dosom	Actual	%	
0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           89         81         -8         -9%           89         81         -8         -9%           19         23         5         26%           32         40         8         26%           32         40         8         26%           32         40         8         26%           3         4         1         55%           3         4         1         55%           3         4         1         55%           3         4         1         55%           3         4         1         55%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         14         0         3%	DOIVIIII	D030111	(metres)	~	
0         0         0         0         0         0         0         0         0         0         0         0         0         0         -100%         89         81         -8         -9%         89         81         -8         -9%         89         81         -8         -9%         19         23         5         26%         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         8         26%         32         40         32         275%         32         40	0	0	0	-	
0         0         0         -100%           89         81         -8         -9%           89         81         -8         -9%           89         81         -8         -9%           19         23         5         26%           32         40         8         26%           32         40         8         26%           32         40         8         26%           3         4         1         55%           3         4         1         55%           3         4         1         55%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         14         0         3%           14         14         0         3%           14         14         0         3%           14         14         0         3%           14         14	0	0	0	-	
0         0         0         -100%           89         81         -8         -9%           89         81         -8         -9%           19         23         5         26%           32         40         8         26%           32         40         8         26%           32         40         8         26%           34         1         55%           3         4         1         55%           3         4         1         55%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         14         0         3%           14         14         0         3%           14         14         0         3%           14         14         0         3%           6         6         0	0	0	0	-	
89       81       -8       -9%         89       81       -8       -9%         89       81       -8       -9%         19       23       5       26%         32       40       8       26%         32       40       8       26%         3       4       1       55%         3       4       1       55%         3       4       1       55%         14       53       39       275%         14       53       39       275%         14       53       39       275%         14       53       39       275%         14       53       39       275%         14       53       39       275%         14       14       0       3%         14       14       0       3%         14       14       0       3%         16       6       0       -2%         5       6       0       7%         10       13       3       27%         10       11       1       5%         35	0	0	0	-	
89         81         -8         -9%           89         81         -8         -9%           19         23         5         26%           32         40         8         26%           32         40         8         26%           3         4         1         55%           3         4         1         55%           3         4         1         55%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         14         0         3%           14         14         0         3%           6         6         0         -2%           5         6         0         7%           10         13         3         27%           10         11         1         5%           35         40         6         17%           0         0         0	0	0	0	-100%	
89         81         -8         -9%           19         23         5         26%           32         40         8         26%           32         40         8         26%           3         4         1         55%           3         4         1         55%           3         4         1         55%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         14         0         3%           6         6         0         -2%           5         6         0         7%           10         13         3         27%           10         11         1         5%           35         40         6         17%           0         0         0         -           98         103         5         6%           24         28         4         17%	89	81	-8	-9%	
19         23         5         26%           32         40         8         26%           32         40         8         26%           32         40         8         26%           3         4         1         55%           3         4         1         55%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         14         0         3%           14         14         0         3%           6         6         0         -2%           5         6         0         7%           10         13         3         27%           10         11         1         5%           35         40         6         17%           0         0         0         -           98         103         5         6%           24         28         4         17%	89	81	-8	-9%	
32     40     8     26%       32     40     8     26%       3     4     1     55%       3     4     1     55%       3     4     1     55%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     -       98     103     5     6%       24     28     4     17%	89	81	-8	-9%	
32         40         8         26%           32         40         8         26%           3         4         1         55%           3         4         1         55%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         53         39         275%           14         14         0         3%           14         14         0         3%           6         6         0         -2%           5         6         0         7%           10         13         3         27%           10         11         1         5%           35         40         6         17%           0         0         0         -           98         103         5         6%           24         28         4         17%	19	23	5	26%	
32 40 8 26% 3 4 1 55% 3 4 1 55% 3 4 1 55% 3 4 1 55% 14 53 39 275% 14 53 39 275% 14 53 39 275% 14 53 39 275% 14 53 39 275% 14 53 39 275% 14 14 0 3% 14 14 0 3% 6 6 6 0 -2% 5 6 0 7% 10 13 3 27% 10 11 1 5% 35 40 6 17% 0 0 0 0 - 98 103 5 6% 24 28 4 17%	32	40	8	26%	
3     4     1     55%       3     4     1     55%       3     4     1     55%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     -       98     103     5     6%       24     28     4     17%	32	40	8	26%	
3     4     1     55%       3     4     1     55%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     -       98     103     5     6%       24     28     4     17%	32	40	8	26%	
3     4     1     55%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     -       98     103     5     6%       24     28     4     17%	3	4	1	55%	
14     53     39     275%       14     53     39     275%       14     53     39     275%       14     53     39     275%       14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0       98     103     5     6%       24     28     4     17%	3	4	1	55%	
14     53     39     275%       14     53     39     275%       14     53     39     275%       14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     -       98     103     5     6%       24     28     4     17%	3	4	1	55%	
14     53     39     275%       14     53     39     275%       14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     -       98     103     5     6%       24     28     4     17%	14	53	39	275%	
14     53     39     275%       14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     -       98     103     5     6%       24     28     4     17%	14	53	39	275%	
14     14     0     3%       14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     -       98     103     5     6%       24     28     4     17%	14	53	39	275%	
14     14     0     3%       6     6     0     -2%       5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0       98     103     5     6%       24     28     4     17%	14	53	39	275%	
6 6 0 -2% 5 6 0 7% 10 13 3 27% 10 11 1 5% 35 40 6 17% 0 0 0 0- 98 103 5 6% 24 28 4 17%	14	14	0	3%	
5     6     0     7%       10     13     3     27%       10     11     1     5%       35     40     6     17%       0     0     0     0       98     103     5     6%       24     28     4     17%	14	14	0	3%	
10 13 3 27% 10 11 1 5% 35 40 6 17% 0 0 0 0- 98 103 5 6% 24 28 4 17%	6	6	0	-2%	
10 11 1 5% 35 40 6 17% 0 0 0 0 - 98 103 5 6% 24 28 4 17%	5	6	0	7%	
35 40 6 17% 0 0 0 - 98 103 5 6% 24 28 4 17%	10	13	3	27%	
0 0 0 0 - 98 103 5 6% 24 28 4 17%	10	11	1	5%	
98 103 5 6% 24 28 4 17%	35	40	6	17%	
24 28 4 17%	0	0	0	-	
	98	103	5	6%	
7 8 1 14%	24	28	4	17%	
	7	8	1	14%	
24 28 4 17%	24	28	4	17%	
11 46 36 328%	11	46	36	328%	
27 56 29 105%	27	56	29	105%	
27 56 29 105%	27	56	29	105%	
7 7 0 1%	7	7	0	1%	
7 7 0 1%	7	7	0	1%	
4 4 0 7%	4	4	0	7%	

			20	22	
	Junction/ Movement	Length (	metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	14	17	4	26%
	A49 NB	14	17	4	26%
	A49 NB to Winwick Link Rd	14	17	4	26%
	Winwick Park Ave to A49 NB	4	5	0	2%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	4	5	0	2%
A49 Winwick Link	Winwick Park Ave to A49 SB	4	5	0	2%
Road/Winwick Park	A49 SB to Winwick Link Rd	51	57	6	13%
Avenue	A49 SB	51	57	6	13%
	A49 SB to Winwick Park Ave	51	57	6	13%
	Winwick Link Rd to A49 SB	2	2	0	-1%
	Winwick Link Rd to Winwick Park Ave	3	3	0	-2%
	Winwick Link Rd to A49 NB	3	3	0	-2%
	A49 NB	21	24	3	16%
	A49 NB to Delp Ln	21	24	3	17%
A49 Newton Road/	A49 SB	44	45	1	2%
Delph Lane	A49 SB to Delph Ln	12	12	0	0%
	Delph Ln to A49 NB	6	6	0	-2%
	Delph Ln to A49 SB	8	8	0	0%
	A49 NB to M62 WB	15	16	2	11%
	A49 NB	15	16	2	11%
	A49 NB to M62 EB	15	16	2	11%
	A49 NB to A49 SB (U-Turn)	15	16	2	11%
	M62 EB to A49 NB	26	90	64	251%
M62 Junction 9	M62 EB to A49 SB	26	90	64	251%
	A49 SB to M62 EB	41	40	-1	-3%
	A49 SB	41	40	-1	-3%
	A49 SB to M62 WB	41	40	-1	-3%
	M62 WB to A49 SB	14	14	0	2%
	M62 WB to A49 NB	14	14	0	2%

	20	27	
Length (	Length (metres)		rence
DoMin	DoSom	Actual (metres)	%
17	23	6	38%
17	23	6	38%
17	23	6	38%
5	5	0	0%
5	5	0	0%
5	5	0	0%
43	45	2	4%
43	45	2	4%
43	45	2	4%
3	3	0	-1%
5	5	0	-1%
5	5	0	-1%
38	57	19	50%
38	57	19	50%
50	49	-1	-2%
12	12	0	4%
6	5	0	-3%
7	7	0	1%
22	28	6	26%
22	28	6	26%
22	28	6	26%
22	28	6	26%
16	44	28	174%
16	44	28	174%
41	40	-1	-3%
41	40	-1	-3%
41	40	-1	-3%
14	14	0	-1%
14	14	0	-1%

2032			
Length (	Length (metres)		rence
DoMin	DoSom	Actual	%
DOIVIIII	DOSOIII	(metres)	^°
25	49	24	96%
25	49	24	96%
25	49	24	96%
5	5	0	0%
5	5	0	0%
5	5	0	0%
41	32	-9	-21%
41	32	-9	-21%
41	32	-9	-21%
4	3	0	-3%
5	5	0	9%
5	5	0	9%
57	28	-29	-51%
58	29	-29	-51%
61	64	3	5%
12	34	22	187%
7	8	1	15%
8	8	1	7%
60	39	-21	-35%
60	39	-21	-35%
60	39	-21	-35%
60	39	-21	-35%
18	35	17	91%
18	35	17	91%
44	57	14	31%
44	57	14	31%
44	57	14	31%
17	28	11	68%
17	28	11	68%

	Junction/ Movement	2022 Length (metres) Difference		ence	
	Janea ony 1910 vernene	Lengar	illed esy	Actual	erice
Junction	Approach	DoMin	DoSom	(metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	2	2	-
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
Poplars Avenue	A49 NB	0	0	0	-
ropial's Avenue	A49 SB	2	10	8	449%
	A49 SB to Sandy Ln West	208	199	-9	-4%
	A49 SB	208	199	-9	-4%
	A49 SB to Cromwell Ave	208	199	-9	-4%
	Cromwell Ave to A49 NB	17	20	3	18%
	Cromwell Ave to Sandy Ln West	30	35	5	18%
A49 Winwick Road/	Cromwell Ave to A49 SB	30	35	5	18%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	30	35	5	18%
Avenue/ Sandy Lane	A49 NB	4	7	3	63%
West	A49 NB to Sandy Ln West	4	7	3	63%
	A49 NB to Cromwell Ave	4	7	3	63%
	Sandy Ln West to A49 NB	17	194	177	1024%
	Sandy Ln West to Sandy Ln (U-turn	17	194	177	1024%
	Sandy Ln West to A49 SB	17	194	177	1024%
	Sandy Ln West to Cromwell Ave	17	194	177	1024%
	A49 NB	16	16	1	4%
A49 Winwick Road @	A49 NB to Junction NINE Retail	16	16	1	4%
Junction NINE Retail	Junction NINE Retail to A49 SB	6	6	0	2%
Park	Junction NINE Retail to A49 NB	5	5	0	6%
raik	A49 SB	16	12	-5	-29%
	A49 SB to Junction NINE Retail	12	12	0	1%
	A49 SB to Hawleys Lane	61	55	-6	-9%
	A49 SB to Long Lane	0	2	1	369%
	A49 SB	138	113	-25	-18%
	A49 NB to Hawleys Lane	19	23	4	20%
A49 Winwick Road/	A49 NB to Long Lane	9	10	0	5%
Hawleys Lane/ A50	A49 NB	19	23	4	20%
Long Lane	Long Lane to A49 SB	21	85	64	313%
LUTING LATTE	Long Lane to Hawleys Lane	74	116	42	57%
	Long Lane to A49 NB	74	116	42	57%
	Hawleys Lane to Long Lane	9	9	1	7%
	Hawleys Lane to A49 SB	9	9	1	7%
	Hawleys Lane to A49 NB	5	5	0	1%

2027			
Length (			rence
DoMin	DoSom	Actual (metres)	%
0	0	0	-
0	0	0	-
0	2	2	-
0	2	2	-
2	0	-2	-98%
124	136	12	9%
124	136	12	9%
124	136	12	9%
23	27	4	18%
40	47	7	18%
40	47	7	18%
40	47	7	18%
6	10	3	48%
6	10	3	48%
6	10	3	48%
21	200	179	875%
21	200	179	875%
21	200	179	875%
21	200	179	875%
23	24	1	4%
23	24	1	4%
6	6	0	-2%
5	5	0	2%
45	36	-9	-21%
12	13	1	10%
65	62	-4	-5%
0	0	0	-
172	167	-5	-3%
34	51	18	52%
13	19	6	43%
34	51	18	52%
18	57	40	225%
46	79	34	74%
46	79	34	74%
9	9	0	3%
9	9	0	3%
5	5	0	2%

	2032			
Length (	metres)	Diffe	rence	
DoMin	DoSom	Actual	%	
DOIVIIII	DOSOIII	(metres)	<i>7</i> °	
0	0	0	-	
0	8	8	-	
49	20	-29	-59%	
49	20	-29	-59%	
25	39	14	59%	
263	211	-52	-20%	
263	211	-52	-20%	
263	211	-52	-20%	
34	51	17	51%	
58	84	26	45%	
58	84	26	45%	
58	84	26	45%	
11	12	1	12%	
11	12	1	12%	
11	12	1	12%	
99	224	125	126%	
99	224	125	126%	
99	224	125	126%	
99	224	125	126%	
23	24	0	2%	
23	24	0	2%	
6	6	0	1%	
5	6	0	7%	
133	115	-18	-13%	
13	13	1	5%	
85	78	-7	-8%	
0	0	0	-	
206	200	-6	-3%	
123	248	125	102%	
45	112	67	148%	
123	248	125	102%	
28	98	70	247%	
55	97	43	78%	
55	97	43	78%	
10	10	0	-1%	
10	10	0	-1%	
5	5	0	0%	

			20	22	
	Junction/ Movement	Length (metres) Difference			ence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	11	13	2	13%
	A49 NB	11	13	2	13%
	A49 NB to Winwick Link Rd	11	13	2	13%
	Winwick Park Ave to A49 NB	4	4	0	0%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	4	4	0	0%
A49 Winwick Link	Winwick Park Ave to A49 SB	4	4	0	0%
Road/Winwick Park	A49 SB to Winwick Link Rd	41	57	16	38%
Avenue	A49 SB	41	57	16	38%
	A49 SB to Winwick Park Ave	41	57	16	38%
	Winwick Link Rd to A49 SB	2	2	0	-4%
	Winwick Link Rd to Winwick Park Ave	3	2	0	-5%
	Winwick Link Rd to A49 NB	3	2	0	-5%
	A49 NB	19	21	2	12%
	A49 NB to Delp Ln	19	21	2	12%
A49 Newton Road/	A49 SB	39	36	-3	-7%
Delph Lane	A49 SB to Delph Ln	12	12	0	1%
	Delph Ln to A49 NB	6	6	0	-2%
	Delph Ln to A49 SB	8	8	0	2%
	A49 NB to M62 WB	10	12	2	15%
	A49 NB	10	12	2	15%
	A49 NB to M62 EB	10	12	2	15%
	A49 NB to A49 SB (U-Turn)	10	12	2	15%
	M62 EB to A49 NB	19	60	40	208%
M62 Junction 9	M62 EB to A49 SB	19	60	40	208%
	A49 SB to M62 EB	31	31	0	0%
	A49 SB	31	31	0	0%
	A49 SB to M62 WB	31	31	0	0%
	M62 WB to A49 SB	13	13	0	2%
	M62 WB to A49 NB	13	13	0	2%

	20	27	
Length (	Length (metres)		rence
DoMin	DoSom	Actual (metres)	%
12	14	1	11%
12	14	1	11%
12	14	1	11%
4	4	0	0%
4	4	0	0%
4	4	0	0%
38	39	2	4%
38	39	2	4%
38	39	2	4%
3	3	0	4%
4	4	0	2%
4	4	0	2%
31	38	7	24%
31	38	8	25%
33	31	-2	-5%
14	12	-1	-10%
5	6	0	6%
7	7	0	0%
13	21	8	59%
13	21	8	59%
13	21	8	59%
13	21	8	59%
15	36	21	140%
15	36	21	140%
35	35	-1	-2%
35	35	-1	-2%
35	35	-1	-2%
13	13	0	-1%
13	13	0	-1%

2032			
Length (metres)		Diffe	rence
DoMin	DoSom	Actual (metres)	%
13	19	6	44%
13	19	6	44%
13	19	6	44%
4	4	0	1%
4	4	0	1%
4	4	0	1%
34	29	-5	-15%
34	29	-5	-15%
34	29	-5	-15%
3	3	0	-1%
4	4	0	0%
4	4	0	0%
104	22	-83	-79%
106	22	-84	-79%
46	21	-24	-53%
15	22	7	46%
7	8	1	18%
8	9	1	8%
62	18	-45	-71%
62	18	-45	-71%
62	18	-45	-71%
62	18	-45	-71%
15	29	13	88%
15	29	13	88%
40	39	-1	-2%
40	39	-1	-2%
40	39	-1	-2%
30	29	-1	-4%
30	29	-1	-4%

			20	22	
	Junction/ Movement	Length (	metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual	%
Janeaon	- I pproderi	D OI WILL	2000111	(metres)	
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
Poplars Avenue	A49 NB	0	0	0	-
	A49 SB	0	0	0	-
	A49 SB to Sandy Ln West	103	125	21	21%
	A49 SB	103	125	21	21%
	A49 SB to Cromwell Ave	103	125	21	21%
	Cromwell Ave to A49 NB	13	13	1	5%
	Cromwell Ave to Sandy Ln West	21	22	1	6%
A49 Winwick Road/	Cromwell Ave to A49 SB	21	22	1	6%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	21	22	1	6%
Avenue/ Sandy Lane	A49 NB	2	3	1	33%
West	A49 NB to Sandy Ln West	2	3	1	33%
	A49 NB to Cromwell Ave	2	3	1	33%
	Sandy Ln West to A49 NB	11	234	223	1949%
	Sandy Ln West to Sandy Ln (U-turn	11	234	223	1949%
	Sandy Ln West to A49 SB	11	234	223	1949%
	Sandy Ln West to Cromwell Ave	11	234	223	1949%
	A49 NB	24	25	0	1%
A49 Winwick Road @	A49 NB to Junction NINE Retail	24	25	0	1%
Junction NINE Retail	Junction NINE Retail to A49 SB	6	6	0	-3%
Park	Junction NINE Retail to A49 NB	4	5	0	7%
Park	A49 SB	60	22	-38	-63%
	A49 SB to Junction NINE Retail	12	12	0	-3%
	A49 SB to Hawleys Lane	61	52	-9	-15%
	A49 SB to Long Lane	19	1	-19	-97%
	A49 SB	157	134	-23	-14%
	A49 NB to Hawleys Lane	11	11	0	0%
A # O SAZILILIZI - L. D I. /	A49 NB to Long Lane	5	6	1	12%
A49 Winwick Road/	A49 NB	11	11	0	0%
Hawleys Lane/ A50	Long Lane to A49 SB	24	114	90	383%
Long Lane	Long Lane to Hawleys Lane	77	128	51	66%
	Long Lane to A49 NB	77	128	51	66%
	Hawleys Lane to Long Lane	8	9	1	10%
	Hawleys Lane to A49 SB	8	9	1	10%
	Hawleys Lane to A49 NB	3	3	0	1%

2027			
Length (	metres)		rence
DoMin	DoSom	Actual	%
		(metres)	
0	0	0	-
0	0	0	-
0	0	0	-
0	0	0	-
0	0	0	-
62	96	34	55%
62	96	34	55%
62	96	34	55%
15	20	4	28%
27	35	8	30%
27	35	8	30%
27	35	8	30%
3	3	0	1%
3	3	0	1%
3	3	0	1%
12	216	205	1758%
12	216	205	1758%
12	216	205	1758%
12	216	205	1758%
6	7	0	4%
6	7	0	4%
6	6	0	-3%
5	5	0	1%
19	10	-9	-48%
11	12	1	14%
46	39	-7	-15%
0	0	0	-100%
120	102	-19	-15%
14	18	5	36%
7	11	3	42%
14	18	5	36%
19	116	96	497%
66	131	65	99%
66	131	65	99%
9	8	-1	-12%
9	8	-1	-12%
3	3	0	2%

2032			
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual	%
DOIVIIII	D030111	(metres)	~
0	0	0	-
5	25	20	391%
48	0	-48	-100%
48	0	-48	-100%
67	38	-29	-43%
283	209	-74	-26%
283	209	-74	-26%
283	209	-74	-26%
21	48	27	126%
37	79	42	114%
37	79	42	114%
37	79	42	114%
5	8	4	76%
5	8	4	76%
5	8	4	76%
37	266	229	617%
37	266	229	617%
37	266	229	617%
37	266	229	617%
29	33	4	15%
29	33	4	15%
6	6	0	3%
5	6	0	5%
79	144	64	81%
12	13	1	8%
63	70	8	12%
0	0	0	-
172	198	26	15%
70	242	172	246%
31	148	117	384%
70	242	172	246%
29	124	95	333%
59	124	65	110%
59	124	65	110%
9	10	1	7%
9	10	1	7%
3	4	0	13%

#### PM AVERAGE QUEUE LENGTH COMPARISON

		Ι7٠	

		2022			
	Junction/ Movement	Length (	metres)	Differ	ence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	11	12	0	3%
	A49 NB	11	12	0	3%
	A49 NB to Winwick Link Rd	11	12	0	3%
	Winwick Park Ave to A49 NB	1	2	1	172%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	1	2	1	172%
A49 Winwick Link	Winwick Park Ave to A49 SB	1	2	1	172%
Road/Winwick Park	A49 SB to Winwick Link Rd	16	17	0	3%
Avenue	A49 SB	16	17	0	3%
	A49 SB to Winwick Park Ave	16	17	0	3%
	Winwick Link Rd to A49 SB	1	1	0	5%
	Winwick Link Rd to Winwick Park Ave	2	2	0	6%
	Winwick Link Rd to A49 NB	2	2	0	6%
	A49 NB	29	33	3	11%
	A49 NB to Delp Ln	29	32	3	12%
A49 Newton Road/	A49 SB	16	17	0	3%
Delph Lane	A49 SB to Delph Ln	10	13	3	25%
	Delph Ln to A49 NB	17	20	2	13%
	Delph Ln to A49 SB	16	18	2	13%
	A49 NB to M62 WB	11	11	0	-3%
	A49 NB	11	11	0	-3%
	A49 NB to M62 EB	11	11	0	-3%
	A49 NB to A49 SB (U-Turn)	11	11	0	-3%
	M62 EB to A49 NB	20	63	43	210%
M62 Junction 9	M62 EB to A49 SB	20	63	43	210%
	A49 SB to M62 EB	27	27	0	1%
	A49 SB	27	27	0	1%
	A49 SB to M62 WB	27	27	0	1%
	M62 WB to A49 SB	7	9	2	25%
	M62 WB to A49 NB	7	9	2	25%

Length (metre DoMin DoS  12 12 12 11 1 1 18 18		Actual (metres) 1 1 0	8% 8% 8%
12 12 12 1 1 1 1 18	13 13 13 1 1 1	(metres) 1 1 1 0	8% 8%
12 12 1 1 1 1 18 18	13 13 1 1 1	1 1 1 0	8%
12 1 1 1 18 18	13 1 1	1	
1 1 1 18 18	1 1 1	0	8%
1 1 18 18	1		
1 18 18	1	-	4%
18 18		0	4%
18	1.0	0	4%
	19	0	3%
10	18	0	3%
18	18	0	3%
2	2	0	2%
4	4	0	3%
4	4	0	3%
32	43	10	32%
32	43	11	34%
19	21	2	9%
11	10	-1	-10%
24	24	0	2%
21	21	1	3%
11	12	1	9%
11	12	1	9%
11	12	1	9%
11	12	1	9%
25	67	42	170%
25	67	42	170%
33	35	2	6%
33	35	2	6%
33	35	2	6%
8		2	20%
8	9	_	

2032			
Length (	Length (metres)		rence
DoMin	DoSom	Actual (metres)	%
13	13	0	-3%
13	13	0	-3%
13	13	0	-3%
1	2	1	148%
1	2	1	148%
1	2	1	148%
19	19	0	1%
19	19	0	1%
19	19	0	1%
2	2	0	0%
4	4	0	3%
4	4	0	3%
37	41	4	12%
37	41	4	12%
21	26	6	27%
12	12	-1	-5%
28	27	-1	-3%
25	25	-1	-2%
11	13	2	14%
11	13	2	14%
11	13	2	14%
11	13	2	14%
24	77	54	228%
24	77	54	228%
34	41	7	21%
34	41	7	21%
34	41	7	21%
8	10	2	31%
8	10	2	31%

#### 16:00-17:00

			2022		
	Junction/ Movement	Length (	metres)	Differ	ence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
Poplars Avenue	A49 NB	0	0	0	-
ropiais Aveilue	A49 SB	0	0	0	-
	A49 SB to Sandy Ln West	66	108	42	63%
	A49 SB	66	108	42	63%
	A49 SB to Cromwell Ave	66	108	42	63%
	Cromwell Ave to A49 NB	18	18	0	-1%
	Cromwell Ave to Sandy Ln West	31	31	0	-1%
A49 Winwick Road/	Cromwell Ave to A49 SB	31	31	0	-1%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	31	31	0	-1%
Avenue/ Sandy Lane	A49 NB	27	27	0	0%
West	A49 NB to Sandy Ln West	27	27	0	0%
	A49 NB to Cromwell Ave	27	27	0	0%
	Sandy Ln West to A49 NB	12	98	86	703%
	Sandy Ln West to Sandy Ln (U-turn	12	98	86	703%
	Sandy Ln West to A49 SB	12	98	86	703%
	Sandy Ln West to Cromwell Ave	12	98	86	703%
	A49 NB	38	38	0	-1%
	A49 NB to Junction NINE Retail	38	38	0	-1%
A49 Winwick Road @	Junction NINE Retail to A49 SB	25	41	15	60%
Junction NINE Retail	Junction NINE Retail to A49 NB	23	38	15	67%
Park	A49 SB	72	55	-17	-24%
	A49 SB to Junction NINE Retail	11	12	2	15%
	A49 SB to Hawleys Lane	25	19	-6	-23%
	A49 SB to Long Lane	0	32	32	-
	A49 SB	177	159	-18	-10%
	A49 NB to Hawleys Lane	45	67	23	51%
	A49 NB to Long Lane	9	12	4	41%
A49 Winwick Road/	A49 NB	45	67	23	51%
Hawleys Lane/ A50	Long Lane to A49 SB	8	20	12	161%
Long Lane	Long Lane to Hawleys Lane	30	40	10	32%
	Long Lane to A49 NB	30	40	10	32%
	Hawleys Lane to Long Lane	21	32	11	53%
	Hawleys Lane to A49 SB	21	32	11	53%
	Hawleys Lane to A49 NB	16	21	5	32%
	manneys come to may NO	10	21	J .	3270

2027				
Length (	metres)	Diffe	rence	
DoMin	DoSom	Actual	%	
DOMIN	DOSOUL	(metres)	70	
0	0	0	-	
0	0	0	-	
0	0	0	-	
0	0	0	-	
0	0	0	-	
56	96	40	72%	
56	96	40	72%	
56	96	40	72%	
21	30	10	47%	
36	51	15	41%	
36	51	15	41%	
36	51	15	41%	
37	36	-1	-2%	
37	36	-1	-2%	
37	36	-1	-2%	
20	181	161	799%	
20	181	161	799%	
20	181	161	799%	
20	181	161	799%	
42	41	-1	-3%	
42	41	-1	-3%	
19	32	13	67%	
17	30	12	71%	
58	55	-2	-4%	
10	16	6	66%	
22	24	1	5%	
7	12	5	61%	
158	153	-5	-3%	
51	81	29	57%	
12	17	5	47%	
51	81	29	57%	
12	35	24	206%	
49	61	12	24%	
49	61	12	24%	
30	39	10	32%	
30	39	10	32%	
23	31	8	34%	

Length (metres)         Difference           DoMin         DoSom         Actual (metres)         %           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           1         14         13         1554%           105         161         56         53%           105         161         56         53%           105         161         56         53%           105         161         56         53%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158<	2032				
DoMin         DoSom (metres)         %           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           0         0         0         -           1         14         13         1554%           105         161         56         53%           105         161         56         53%           25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372	Length (	metres)	Diffe	rence	
Constress   Cons	Dank Alice	Dadam	Actual	0/	
0         0         0         -           0         0         0         -           1         14         13         1554%           105         161         56         53%           105         161         56         53%           25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0	Dolviin	Dosom	(metres)	70	
0         0         0         -           0         0         0         -           1         14         13         1554%           105         161         56         53%           105         161         56         53%           25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48	0	0	0	-	
0         0         0           1         14         13         1554%           105         161         56         53%           105         161         56         53%           105         161         56         53%           25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0	0	0	0	-	
1         14         13         1554%           105         161         56         53%           105         161         56         53%           25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48	0	0	0	-	
105         161         56         53%           105         161         56         53%           25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           18         22	0	0	0	-	
105         161         56         53%           105         161         56         53%           25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           18	1	14	13	1554%	
105         161         56         53%           25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28	105	161	56	53%	
25         26         1         5%           44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           28         40         12         41%           13         15         2         14%           24 <t< td=""><td>105</td><td>161</td><td>56</td><td>53%</td></t<>	105	161	56	53%	
44         46         2         5%           44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           145         143	105	161	56	53%	
44         46         2         5%           44         46         2         5%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           145         143	25	26	1	5%	
44         46         2         5%           53         62         9         17%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           28         40         12 <td>44</td> <td>46</td> <td>2</td> <td>5%</td>	44	46	2	5%	
53         62         9         17%           53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           28         40         12         41%           13         15         2 </td <td>44</td> <td>46</td> <td>2</td> <td>5%</td>	44	46	2	5%	
53         62         9         17%           53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156 </td <td>44</td> <td>46</td> <td>2</td> <td>5%</td>	44	46	2	5%	
53         62         9         17%           43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           62         70         7         12%           62	53	62	9	17%	
43         201         158         372%           43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           62         70         7         12%           37         <	53	62	9	17%	
43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38	53	62	9	17%	
43         201         158         372%           43         201         158         372%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	43	201	158	372%	
43         201         158         372%           48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	43	201	158	372%	
48         48         0         0%           48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	43	201	158	372%	
48         48         0         0%           18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	43	201	158	372%	
18         22         4         25%           16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	48	48	0	0%	
16         20         4         28%           28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	48	48	0	0%	
28         40         12         41%           13         15         2         14%           24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	18	22	4	25%	
13 15 2 14% 24 23 -1 -6% 1 14 13 1459% 145 143 -2 -2% 74 156 81 110% 13 55 41 310% 74 156 81 110% 18 39 20 112% 62 70 7 12% 62 70 7 12% 37 38 2 4% 37 38 2 4%	16	20	4	28%	
24         23         -1         -6%           1         14         13         1459%           145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	28	40	12	41%	
1 14 13 1459% 145 143 -2 -2% 74 156 81 110% 13 55 41 310% 74 156 81 110% 18 39 20 112% 62 70 7 12% 62 70 7 12% 37 38 2 4% 37 38 2 4%	13	15	2	14%	
145         143         -2         -2%           74         156         81         110%           13         55         41         310%           74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	24	23	-1	-6%	
74 156 81 110% 13 55 41 310% 74 156 81 110% 18 39 20 112% 62 70 7 12% 62 70 7 12% 37 38 2 4% 37 38 2 4%	1	14	13	1459%	
13 55 41 310% 74 156 81 110% 18 39 20 112% 62 70 7 12% 62 70 7 12% 37 38 2 4% 37 38 2 4%	145	143	-2	-2%	
74         156         81         110%           18         39         20         112%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	74	156	81	110%	
18         39         20         112%           62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	13	55	41	310%	
62         70         7         12%           62         70         7         12%           37         38         2         4%           37         38         2         4%	74	156	81	110%	
62         70         7         12%           37         38         2         4%           37         38         2         4%	18	39	20	112%	
37 38 2 4% 37 38 2 4%	62	70	7	12%	
37 38 2 4%	62	70	7	12%	
	37	38	2	4%	
28 31 3 9%	37	38	2	4%	
	28	31	3	9%	

			20	22	
	Junction/ Movement	Length (	metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	11	12	0	3%
	A49 NB	11	12	0	3%
	A49 NB to Winwick Link Rd	11	12	0	3%
	Winwick Park Ave to A49 NB	1	3	2	193%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	1	3	2	193%
A49 Winwick Link	Winwick Park Ave to A49 SB	1	3	2	193%
Road/Winwick Park	A49 SB to Winwick Link Rd	18	20	2	11%
Avenue	A49 SB	18	20	2	11%
	A49 SB to Winwick Park Ave	18	20	2	11%
	Winwick Link Rd to A49 SB	16	26	10	64%
	Winwick Link Rd to Winwick Park Ave	4	11	7	166%
	Winwick Link Rd to A49 NB	4	11	7	166%
	A49 NB	29	31	2	7%
	A49 NB to Delp Ln	29	31	2	7%
A49 Newton Road/	A49 SB	92	114	23	25%
Delph Lane	A49 SB to Delph Ln	11	11	-1	-6%
	Delph Ln to A49 NB	52	70	18	36%
	Delph Ln to A49 SB	49	67	18	37%
	A49 NB to M62 WB	12	13	1	9%
	A49 NB	12	13	1	9%
	A49 NB to M62 EB	12	13	1	9%
	A49 NB to A49 SB (U-Turn)	12	13	1	9%
	M62 EB to A49 NB	17	51	34	195%
M62 Junction 9	M62 EB to A49 SB	17	51	34	195%
	A49 SB to M62 EB	60	69	10	16%
	A49 SB	60	69	10	16%
	A49 SB to M62 WB	60	69	10	16%
	M62 WB to A49 SB	17	20	3	19%
	M62 WB to A49 NB	17	20	3	19%

2027				
Length (	metres)	Diffe	rence	
DoMin	DoSom	Actual (metres)	%	
12	13	1	7%	
12	13	1	7%	
12	13	1	7%	
1	1	0	-1%	
1	1	0	-1%	
1	1	0	-1%	
20	21	1	6%	
20	21	1	6%	
20	21	1	6%	
8	4	-4	-47%	
4	5	1	18%	
4	5	1	18%	
30	39	9	32%	
29	39	10	33%	
62	58	-4	-7%	
10	10	0	1%	
88	89	1	1%	
84	85	1	1%	
12	12	0	2%	
12	12	0	2%	
12	12	0	2%	
12	12	0	2%	
21	50	29	142%	
21	50	29	142%	
57	58	1	2%	
57	58	1	2%	
57	58	1	2%	
12	12	1	6%	
12	12	1	6%	

2032			
Length (	metres)	Difference	
DoMin	DoSom	Actual (metres)	%
13	20	7	53%
13	20	7	53%
13	20	7	53%
1	4	2	167%
1	4	2	167%
1	4	2	167%
22	28	6	30%
22	28	6	30%
22	28	6	30%
10	63	53	514%
6	39	33	568%
6	39	33	568%
39	44	6	15%
39	44	6	15%
86	206	120	139%
11	49	38	356%
100	100	0	0%
97	97	0	0%
13	16	3	24%
13	16	3	24%
13	16	3	24%
13	16	3	24%
21	62	41	197%
21	62	41	197%
62	82	20	32%
62	82	20	32%
62	82	20	32%
12	25	13	111%
12	25	13	111%

			20	22	
	Junction/ Movement	Length (	metres)	Differ	ence
Junction	Approach	DoMin	DoSom	Actual	%
Junearon	- проточен	DOIVIIII	B030111	(metres)	70
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
Poplars Avenue	A49 NB	0	0	0	-
r opidio Arciide	A49 SB	145	158	13	9%
	A49 SB to Sandy Ln West	378	367	-10	-3%
	A49 SB	378	367	-10	-3%
	A49 SB to Cromwell Ave	378	367	-10	-3%
	Cromwell Ave to A49 NB	40	32	-8	-21%
	Cromwell Ave to Sandy Ln West	62	52	-10	-17%
A49 Winwick Road/	Cromwell Ave to A49 SB	62	52	-10	-17%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	62	52	-10	-17%
Avenue/ Sandy Lane	A49 NB	22	22	0	2%
West	A49 NB to Sandy Ln West	22	22	0	2%
	A49 NB to Cromwell Ave	22	22	0	2%
	Sandy Ln West to A49 NB	17	181	164	984%
	Sandy Ln West to Sandy Ln (U-turn	17	181	164	984%
	Sandy Ln West to A49 SB	17	181	164	984%
	Sandy Ln West to Cromwell Ave	17	181	164	984%
	A49 NB	31	32	1	2%
A49 Winwick Road @	A49 NB to Junction NINE Retail	31	32	1	2%
Junction NINE Retail	Junction NINE Retail to A49 SB	45	100	55	122%
Park	Junction NINE Retail to A49 NB	42	97	55	130%
Park	A49 SB	304	273	-31	-10%
	A49 SB to Junction NINE Retail	41	14	-27	-66%
	A49 SB to Hawleys Lane	39	39	0	-1%
	A49 SB to Long Lane	34	107	73	218%
	A49 SB	255	257	1	0%
	A49 NB to Hawleys Lane	31	54	22	70%
A49 Winwick Road/	A49 NB to Long Lane	8	11	3	30%
	A49 NB	31	54	22	70%
Hawleys Lane/ A50	Long Lane to A49 SB	8	22	14	169%
Long Lane	Long Lane to Hawleys Lane	30	38	8	28%
	Long Lane to A49 NB	30	38	8	28%
	Hawleys Lane to Long Lane	31	43	12	37%
	Hawleys Lane to A49 SB	31	43	12	37%
	Hawleys Lane to A49 NB	24	29	6	24%

	2027				
Length (	metres)	Diffe	rence		
DoMin	DoSom	Actual (metres)	%		
8	0	-8	-100%		
0	0	0	-		
0	0	0	-		
0	0	0	-		
48	50	2	3%		
288	331	43	15%		
288	331	43	15%		
288	331	43	15%		
53	59	6	10%		
76	89	13	17%		
76	89	13	17%		
76	89	13	17%		
28	34	5	19%		
28	34	5	19%		
28	34	5	19%		
32	260	228	708%		
32	260	228	708%		
32	260	228	708%		
32	260	228	708%		
39	41	2	6%		
39	41	2	6%		
30	63	33	110%		
28	61	33	119%		
289	215	-75	-26%		
11	17	6	51%		
28	36	8	28%		
46	56	10	23%		
245	246	2	1%		
43	112	69	161%		
10	36	26	251%		
43	112	69	161%		
11	34	23	213%		
32	48	17	52%		
32	48	17	52%		
60	75	15	25%		
60	75	15	25%		
42	57	16	37%		

2032			
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual	%
DOIVIIII	D030111	(metres)	^
0	0	0	-
0	0	0	-
0	0	0	-
0	0	0	-
81	163	82	101%
347	394	47	14%
347	394	47	14%
347	394	47	14%
49	44	-5	-9%
78	73	-5	-6%
78	73	-5	-6%
78	73	-5	-6%
54	61	7	12%
54	61	7	12%
54	61	7	12%
63	263	200	316%
63	263	200	316%
63	263	200	316%
63	263	200	316%
44	43	-1	-1%
44	43	-1	-1%
29	39	10	33%
27	36	10	36%
273	227	-45	-17%
13	15	2	18%
34	32	-3	-8%
24	42	18	77%
246	244	-2	-1%
109	353	245	225%
31	234	203	655%
109	353	245	225%
19	54	35	185%
49	80	32	65%
49	80	32	65%
74	82	8	11%
74	82	8	11%
58	64	6	10%

		2022			
	Junction/ Movement	Length (metres) Difference			rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	10	15	5	50%
	A49 NB	10	15	5	50%
	A49 NB to Winwick Link Rd	10	15	5	50%
	Winwick Park Ave to A49 NB	1	4	2	192%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	1	4	2	192%
A49 Winwick Link	Winwick Park Ave to A49 SB	1	4	2	192%
Road/Winwick Park	A49 SB to Winwick Link Rd	18	25	7	41%
Avenue	A49 SB	18	25	7	41%
	A49 SB to Winwick Park Ave	18	25	7	41%
	Winwick Link Rd to A49 SB	92	110	18	20%
	Winwick Link Rd to Winwick Park Ave	69	49	-19	-28%
	Winwick Link Rd to A49 NB	69	49	-19	-28%
	A49 NB	21	24	3	15%
	A49 NB to Delp Ln	19	22	3	16%
A49 Newton Road/	A49 SB	262	260	-2	-1%
Delph Lane	A49 SB to Delph Ln	51	50	-2	-3%
	Delph Ln to A49 NB	16	20	4	25%
	Delph Ln to A49 SB	15	18	4	27%
	A49 NB to M62 WB	8	9	0	4%
	A49 NB	8	9	0	4%
	A49 NB to M62 EB	8	9	0	4%
	A49 NB to A49 SB (U-Turn)	8	9	0	4%
	M62 EB to A49 NB	13	29	16	124%
M62 Junction 9	M62 EB to A49 SB	13	29	16	124%
	A49 SB to M62 EB	80	76	-5	-6%
	A49 SB	80	76	-5	-6%
	A49 SB to M62 WB	80	76	-5	-6%
	M62 WB to A49 SB	21	22	1	3%
	M62 WB to A49 NB	21	22	1	3%

	20	27	
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual (metres)	%
11	11	0	2%
11	11	0	2%
11	11	0	2%
1	1	0	16%
1	1	0	16%
1	1	0	16%
19	21	2	10%
19	21	2	10%
19	21	2	10%
47	26	-20	-44%
31	8	-23	-73%
31	8	-23	-73%
23	26	3	14%
21	25	4	17%
127	107	-20	-16%
28	40	12	45%
43	44	2	4%
40	42	2	4%
9	10	1	14%
9	10	1	14%
9	10	1	14%
9	10	1	14%
14	29	15	112%
14	29	15	112%
52	54	2	3%
52	54	2	3%
52	54	2	3%
10	12	2	24%
10	12	2	24%

	2032			
Length (metres)		Diffe	rence	
DoMin	DoSom	Actual (metres)	%	
11	40	29	270%	
11	40	29	270%	
11	40	29	270%	
1	4	2	173%	
1	4	2	173%	
1	4	2	173%	
21	36	15	74%	
21	36	15	74%	
21	36	15	74%	
39	178	139	354%	
31	127	96	307%	
31	127	96	307%	
25	69	45	183%	
24	69	46	193%	
169	346	177	104%	
31	198	167	547%	
87	104	18	21%	
83	101	18	21%	
11	37	26	242%	
11	37	26	242%	
11	37	26	242%	
11	37	26	242%	
15	96	81	532%	
15	96	81	532%	
63	81	18	29%	
63	81	18	29%	
63	81	18	29%	
12	17	5	45%	
12	17	5	45%	

		2022			
	Junction/ Movement	Length (	metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-
A49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
Poplars Avenue	A49 NB	0	0	0	-
Poprars Avenue	A49 SB	249	217	-33	-13%
	A49 SB to Sandy Ln West	461	449	-12	-3%
	A49 SB	461	449	-12	-3%
	A49 SB to Cromwell Ave	461	449	-12	-3%
	Cromwell Ave to A49 NB	29	21	-8	-28%
	Cromwell Ave to Sandy Ln West	50	36	-14	-27%
A49 Winwick Road/	Cromwell Ave to A49 SB	50	36	-14	-27%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	50	36	-14	-27%
Avenue/ Sandy Lane	A49 NB	6	5	-1	-11%
West	A49 NB to Sandy Ln West	6	5	-1	-11%
	A49 NB to Cromwell Ave	6	5	-1	-11%
	Sandy Ln West to A49 NB	8	63	55	651%
	Sandy Ln West to Sandy Ln (U-turn	8	63	55	651%
	Sandy Ln West to A49 SB	8	63	55	651%
	Sandy Ln West to Cromwell Ave	8	63	55	651%
	A49 NB	23	24	1	5%
A49 Winwick Road @	A49 NB to Junction NINE Retail	23	24	1	5%
Junction NINE Retail	Junction NINE Retail to A49 SB	14	52	38	267%
Park	Junction NINE Retail to A49 NB	12	50	38	324%
Park	A49 SB	233	229	-5	-2%
	A49 SB to Junction NINE Retail	18	15	-3	-14%
	A49 SB to Hawleys Lane	40	40	0	0%
	A49 SB to Long Lane	26	118	92	359%
	A49 SB	241	251	11	4%
	A49 NB to Hawleys Lane	17	18	1	8%
A49 Winwick Road/	A49 NB to Long Lane	8	9	1	17%
	A49 NB	17	18	1	8%
Hawleys Lane/ A50	Long Lane to A49 SB	8	22	15	193%
Long Lane	Long Lane to Hawleys Lane	27	30	4	13%
	Long Lane to A49 NB	27	30	4	13%
	Hawleys Lane to Long Lane	21	26	5	24%
	Hawleys Lane to A49 SB	21	26	5	24%
	Hawleys Lane to A49 NB	14	15	1	5%

	20	27	
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual	%
DOIVIIII	DOSOIII	(metres)	<i>^</i> °
0	0	0	-
0	0	0	-
0	0	0	-
0	0	0	-
55	99	44	80%
302	410	108	36%
302	410	108	36%
302	410	108	36%
46	58	12	27%
71	87	17	24%
71	87	17	24%
71	87	17	24%
8	9	1	12%
8	9	1	12%
8	9	1	12%
12	260	248	2065%
12	260	248	2065%
12	260	248	2065%
12	260	248	2065%
25	27	2	9%
25	27	2	9%
12	20	9	73%
10	18	8	84%
334	255	-80	-24%
12	17	5	41%
30	33	3	10%
40	30	-11	-26%
240	234	-6	-3%
21	26	5	22%
9	16	7	81%
21	26	5	22%
9	25	17	195%
20	27	7	35%
20	27	7	35%
39	65	25	65%
39	65	25	65%
28	54	26	92%

2032			
Length (i	metres)	Diffe	rence
Date	D=0=	Actual	0/
DoMin	DoSom	(metres)	%
0	0	0	-
0	0	0	-
0	44	44	-
0	44	44	-
124	162	38	30%
412	411	-1	0%
412	411	-1	0%
412	411	-1	0%
53	48	-5	-10%
84	78	-6	-8%
84	78	-6	-8%
84	78	-6	-8%
10	31	21	207%
10	31	21	207%
10	31	21	207%
22	261	239	1082%
22	261	239	1082%
22	261	239	1082%
22	261	239	1082%
28	52	24	86%
28	52	24	86%
11	14	4	34%
9	12	4	43%
366	144	-222	-61%
13	17	4	27%
38	29	-9	-24%
1	3	2	261%
231	194	-37	-16%
23	64	41	181%
10	27	18	181%
23	64	41	181%
15	48	33	216%
34	65	32	94%
34	65	32	94%
45	76	30	67%
45	76	30	67%
35	64	29	81%

#### **AM MAXIMUM QUEUE LENGTH COMPARISON**

	'nΩ			

		2022			
	Junction/ Movement	Length (1	metres)	Differ	ence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	83	82	-1	-2%
	A49 NB	83	82	-1	-2%
	A49 NB to Winwick Link Rd	83	82	-1	-2%
	Winwick Park Ave to A49 NB	29	29	1	2%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	29	29	1	2%
A49 Winwick Link	Winwick Park Ave to A49 SB	29	29	1	2%
Road/Winwick Park	A49 SB to Winwick Link Rd	168	176	8	5%
Avenue	A49 SB	168	176	8	5%
	A49 SB to Winwick Park Ave	168	176	8	5%
	Winwick Link Rd to A49 SB	32	33	1	2%
	Winwick Link Rd to Winwick Park Ave	32	33	1	2%
	Winwick Link Rd to A49 NB	32	33	1	2%
	A49 NB	130	153	22	17%
	A49 NB to Delp Ln	135	157	22	17%
A49 Newton Road/	A49 SB	159	191	32	20%
Delph Lane	A49 SB to Delph Ln	78	78	0	0%
	Delph Ln to A49 NB	43	42	-1	-2%
	Delph Ln to A49 SB	40	39	-1	-2%
	A49 NB to M62 WB	88	94	6	7%
	A49 NB	88	94	6	7%
	A49 NB to M62 EB	88	94	6	7%
	A49 NB to A49 SB (U-Turn)	88	94	6	7%
	M62 EB to A49 NB	143	285	141	99%
M62 Junction 9	M62 EB to A49 SB	143	285	141	99%
	A49 SB to M62 EB	154	158	4	3%
	A49 SB	154	158	4	3%
	A49 SB to M62 WB	154	158	4	3%
	M62 WB to A49 SB	93	95	2	2%
	M62 WB to A49 NB	93	95	2	2%

	2027			
Length (	metres)	Diffe	rence	
DoMin	DoSom	Actual (metres)	%	
110	112	2	2%	
110	112	2	2%	
110	112	2	2%	
30	29	0	-1%	
30	29	0	-1%	
30	29	0	-1%	
140	148	8	6%	
140	148	8	6%	
140	148	8	6%	
36	33	-3	-9%	
37	33	-4	-10%	
37	33	-4	-10%	
159	178	20	12%	
163	183	20	12%	
193	201	9	5%	
73	74	1	1%	
41	41	0	-1%	
38	38	-1	-2%	
100	95	-5	-5%	
100	95	-5	-5%	
100	95	-5	-5%	
100	95	-5	-5%	
95	233	138	146%	
95	233	138	146%	
161	159	-3	-2%	
161	159	-3	-2%	
161	159	-3	-2%	
93	97	3	3%	
93	97	3	3%	

2032			
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual (metres)	%
122	115	-6	-5%
122	115	-6	-5%
122	115	-6	-5%
30	30	0	0%
30	30	0	0%
30	30	0	0%
127	107	-21	-16%
127	107	-21	-16%
127	107	-21	-16%
37	36	0	-1%
37	37	0	0%
37	37	0	0%
162	171	10	6%
166	176	10	6%
198	197	-1	0%
67	125	58	86%
46	47	1	3%
47	43	-3	-7%
92	107	15	16%
92	107	15	16%
92	107	15	16%
92	107	15	16%
103	223	121	118%
103	223	121	118%
159	163	4	3%
159	163	4	3%
159	163	4	3%
101	104	4	4%
101	104	4	4%

#### 07:00-08:00

			2022		
	Junction/ Movement	Length (	metres)	Differ	ence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-
449 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
Poplars Avenue	A49 NB	0	0	0	-
Popiars Avenue	A49 SB	0	0	0	-
	A49 SB to Sandy Ln West	350	351	1	0%
	A49 SB	350	351	1	09
	A49 SB to Cromwell Ave	350	351	1	09
	Cromwell Ave to A49 NB	109	109	0	09
	Cromwell Ave to Sandy Ln West	109	109	0	09
A49 Winwick Road/	Cromwell Ave to A49 SB	109	109	0	09
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	109	109	0	09
Avenue/ Sandy Lane	A49 NB	78	76	-1	-29
West	A49 NB to Sandy Ln West	78	76	-1	-29
	A49 NB to Cromwell Ave	78	76	-1	-29
	Sandy Ln West to A49 NB	91	228	137	1529
	Sandy Ln West to Sandy Ln (U-turn	91	228	137	1529
	Sandy Ln West to A49 SB	91	228	137	1529
	Sandy Ln West to Cromwell Ave	91	228	137	1529
	A49 NB	58	51	-7	-129
	A49 NB to Junction NINE Retail	58	51	-7	-129
A49 Winwick Road @	Junction NINE Retail to A49 SB	26	27	1	69
Junction NINE Retail	Junction NINE Retail to A49 NB	23	25	2	79
Park	A49 SB	104	102	-2	-29
	A49 SB to Junction NINE Retail	53	50	-2	-49
	A49 SB to Hawleys Lane	199	206	8	49
	A49 SB to Long Lane	74	47	-27	-369
	A49 SB	274	257	-17	-69
	A49 NB to Hawleys Lane	160	170	10	69
	A49 NB to Long Lane	61	62	2	39
A49 Winwick Road/	A49 NB	160	170	10	69
Hawleys Lane/ A50	Long Lane to A49 SB	104	162	58	569
Long Lane	Long Lane to Hawleys Lane	142	156	15	109
	Long Lane to A49 NB	142	156	15	109
	Hawleys Lane to Long Lane	43	41	-2	-49
	Hawleys Lane to A49 SB	43	41	-2	-49
	Hawleys Lane to A49 NB	47	44	-4	-89

2027			
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual	%
Dolvilli	DOSOIII	(metres)	<i>^</i> °
0	0	0	-
0	0	0	-
0	0	0	-
0	0	0	-
7	0	-7	-100%
310	334	24	8%
310	334	24	8%
310	334	24	8%
112	127	15	14%
112	127	15	14%
112	127	15	14%
112	127	15	14%
92	76	-16	-17%
92	76	-16	-17%
92	76	-16	-17%
90	225	135	149%
90	225	135	149%
90	225	135	149%
90	225	135	149%
48	54	6	12%
48	54	6	12%
27	27	0	-1%
25	24	0	-1%
105	108	3	3%
59	58	-2	-3%
236	182	-55	-23%
1	0	-1	-100%
269	264	-5	-2%
201	236	36	18%
85	112	27	32%
201	236	36	18%
83	144	61	74%
145	152	7	4%
145	152	7	4%
52	52	0	1%
52	52	0	1%
55	46	-8	-15%

2032				
Length (	th (metres) Difference			
DoMin	DoSom	Actual	%	
Dolvilli	D030111	(metres)	~	
0	0	0	-	
0	0	0	-	
0	0	0	-	
0	0	0	-	
4	0	-4	-100%	
363	387	24	7%	
363	387	24	7%	
363	387	24	7%	
127	131	4	3%	
127	131	4	3%	
127	131	4	3%	
127	131	4	3%	
69	82	13	19%	
69	82	13	19%	
69	82	13	19%	
117	270	153	131%	
117	270	153	131%	
117	270	153	131%	
117	270	153	131%	
112	117	5	4%	
112	117	5	4%	
28	29	1	5%	
25	27	2	7%	
142	148	6	4%	
59	60	2	3%	
305	289	-15	-5%	
0	0	0	-	
334	328	-6	-2%	
276	320	44	16%	
88	125	37	42%	
276	320	44	16%	
97	156	59	60%	
127	150	22	18%	
127	150	22	18%	
56	51	-5	-8%	
56	51	-5	-8%	
54	54	0	0%	

		2022			
	Junction/ Movement	Length (	metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	104	137	34	33%
	A49 NB	104	137	34	33%
	A49 NB to Winwick Link Rd	104	137	34	33%
	Winwick Park Ave to A49 NB	34	35	1	3%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	34	35	1	3%
A49 Winwick Link	Winwick Park Ave to A49 SB	34	35	1	3%
Road/Winwick Park	A49 SB to Winwick Link Rd	181	183	2	1%
Avenue	A49 SB	181	183	2	1%
	A49 SB to Winwick Park Ave	181	183	2	1%
	Winwick Link Rd to A49 SB	31	29	-2	-5%
	Winwick Link Rd to Winwick Park Ave	31	29	-1	-4%
	Winwick Link Rd to A49 NB	31	29	-1	-4%
	A49 NB	126	180	54	43%
	A49 NB to Delp Ln	131	185	54	42%
A49 Newton Road/	A49 SB	211	220	8	4%
Delph Lane	A49 SB to Delph Ln	86	100	13	15%
	Delph Ln to A49 NB	48	47	0	0%
	Delph Ln to A49 SB	42	42	0	0%
	A49 NB to M62 WB	122	110	-12	-10%
	A49 NB	122	110	-12	-10%
	A49 NB to M62 EB	122	110	-12	-10%
	A49 NB to A49 SB (U-Turn)	122	110	-12	-10%
	M62 EB to A49 NB	95	227	132	139%
M62 Junction 9	M62 EB to A49 SB	95	227	132	139%
	A49 SB to M62 EB	163	165	2	1%
	A49 SB	163	165	2	1%
	A49 SB to M62 WB	163	165	2	1%
	M62 WB to A49 SB	79	79	1	1%
	M62 WB to A49 NB	79	79	1	1%

	20	27	
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual (metres)	%
109	141	31	29%
109	141	31	29%
109	141	31	29%
35	35	0	0%
35	35	0	0%
35	35	0	0%
166	167	1	1%
166	167	1	1%
166	167	1	1%
41	38	-3	-8%
41	38	-3	-8%
41	38	-3	-8%
179	241	62	35%
184	245	62	34%
238	234	-4	-2%
86	95	9	10%
41	40	-1	-2%
37	36	-1	-3%
120	133	13	11%
120	133	13	11%
120	133	13	11%
120	133	13	11%
83	198	115	137%
83	198	115	137%
163	165	1	1%
163	165	1	1%
163	165	1	1%
81	82	1	1%
81	82	1	1%

2032			
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual (metres)	%
144	177	34	24%
144	177	34	24%
144	177	34	24%
37	37	0	0%
37	37	0	0%
37	37	0	0%
168	154	-14	-8%
168	154	-14	-8%
168	154	-14	-8%
35	33	-2	-5%
36	73	37	105%
36	73	37	105%
239	191	-48	-20%
243	195	-48	-20%
273	302	29	10%
95	229	133	140%
49	51	2	4%
45	46	1	3%
157	145	-12	-8%
157	145	-12	-8%
157	145	-12	-8%
157	145	-12	-8%
92	198	106	116%
92	198	106	116%
163	167	4	3%
163	167	4	3%
163	167	4	3%
90	130	40	45%
90	130	40	45%

		2022			
	Junction/ Movement	Length (	metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	7	7	-
.49 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
س Poplars Avenue	A49 NB	0	0	0	-
Poplars Avenue	A49 SB	32	43	11	33%
	A49 SB to Sandy Ln West	407	431	24	6%
	A49 SB	407	431	24	6%
	A49 SB to Cromwell Ave	407	431	24	6%
	Cromwell Ave to A49 NB	120	124	4	3%
	Cromwell Ave to Sandy Ln West	120	124	4	3%
A49 Winwick Road/	Cromwell Ave to A49 SB	120	124	4	3%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	120	124	4	3%
Avenue/ Sandy Lane	A49 NB	85	108	23	27%
West	A49 NB to Sandy Ln West	85	108	23	27%
	A49 NB to Cromwell Ave	85	108	23	27%
	Sandy Ln West to A49 NB	114	292	178	157%
	Sandy Ln West to Sandy Ln (U-turn	114	292	178	157%
	Sandy Ln West to A49 SB	114	292	178	157%
	Sandy Ln West to Cromwell Ave	114	292	178	157%
	A49 NB	147	167	20	13%
40 Winnigh Board @	A49 NB to Junction NINE Retail	147	167	20	13%
,49 Winwick Road @ Junction NINE Retail	Junction NINE Retail to A49 SB	27	27	0	0%
Park	Junction NINE Retail to A49 NB	25	25	0	0%
Park	A49 SB	140	127	-13	-9%
	A49 SB to Junction NINE Retail	54	58	3	6%
	A49 SB to Hawleys Lane	302	283	-19	-6%
	A49 SB to Long Lane	32	74	42	130%
	A49 SB	325	316	-9	-3%
	A49 NB to Hawleys Lane	175	219	43	25%
4 4 0 14/imusiak Daa 4/	A49 NB to Long Lane	75	88	13	18%
A49 Winwick Road/	A49 NB	175	219	43	25%
Hawleys Lane/ A50	Long Lane to A49 SB	152	188	36	23%
Long Lane	Long Lane to Hawleys Lane	164	187	23	14%
	Long Lane to A49 NB	164	187	23	14%
	Hawleys Lane to Long Lane	65	69	4	6%
	Hawleys Lane to A49 SB	65	69	4	6%
	Hawleys Lane to A49 NB	62	52	-10	-15%

2027			
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual	%
DOIVIIII	DOSOIII	(metres)	~
0	0	0	-
0	0	0	-
4	20	16	405%
4	20	16	405%
18	6	-12	-67%
328	392	64	20%
328	392	64	20%
328	392	64	20%
127	131	4	3%
127	131	4	3%
127	131	4	3%
127	131	4	3%
103	121	18	17%
103	121	18	17%
103	121	18	17%
122	294	171	140%
122	294	171	140%
122	294	171	140%
122	294	171	140%
168	173	6	3%
168	173	6	3%
27	27	0	0%
25	25	0	0%
206	218	12	6%
63	66	3	4%
312	311	-1	0%
0	0	0	-
334	331	-3	-1%
233	303	70	30%
108	177	69	64%
233	303	70	30%
132	190	58	44%
155	182	28	18%
155	182	28	18%
56	60	5	8%
56	60	5	8%
52	56	4	7%

2032				
Length (	metres)	Difference		
DoMin	DoSom	Actual	%	
DOIVIIII	DOSOIII	(metres)	ę	
0	0	0		
1	28	26	1890%	
132	80	-52	-39%	
132	80	-52	-39%	
166	127	-39	-23%	
471	471	0	0%	
471	471	0	0%	
471	471	0	0%	
135	140	5	4%	
135	140	5	4%	
135	140	5	4%	
135	140	5	4%	
133	141	8	6%	
133	141	8	6%	
133	141	8	6%	
252	296	44	18%	
252	296	44	18%	
252	296	44	18%	
252	296	44	18%	
174	171	-2	-1%	
174	171	-2	-1%	
30	34	3	11%	
28	31	3	12%	
361	348	-13	-4%	
69	66	-3	-5%	
328	330	2	1%	
0	0	0	-	
336	340	4	1%	
438	508	70	16%	
351	501	150	43%	
438	508	70	16%	
154	170	16	10%	
149	159	10	7%	
149	159	10	7%	
80	76	-4	-5%	
80	76	-4	-5%	
70	65	-4	-6%	

		2022			
	Junction/ Movement	Length (	(metres)	Difference	
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	85	86	1	1%
	A49 NB	85	86	1	1%
	A49 NB to Winwick Link Rd	85	86	1	1%
	Winwick Park Ave to A49 NB	24	25	1	2%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	24	25	1	2%
A49 Winwick Link	Winwick Park Ave to A49 SB	24	25	1	2%
Road/Winwick Park	A49 SB to Winwick Link Rd	128	178	50	39%
Avenue	A49 SB	128	178	50	39%
	A49 SB to Winwick Park Ave	128	178	50	39%
	Winwick Link Rd to A49 SB	25	26	0	1%
	Winwick Link Rd to Winwick Park Ave	25	26	0	19
	Winwick Link Rd to A49 NB	25	26	0	1%
	A49 NB	115	141	26	22%
	A49 NB to Delp Ln	119	145	26	22%
A49 Newton Road/	A49 SB	200	184	-16	-8%
Delph Lane	A49 SB to Delph Ln	69	68	-1	-2%
	Delph Ln to A49 NB	45	44	-1	-39
	Delph Ln to A49 SB	41	40	-1	-3%
	A49 NB to M62 WB	84	85	0	0%
	A49 NB	84	85	0	0%
	A49 NB to M62 EB	84	85	0	0%
	A49 NB to A49 SB (U-Turn)	84	85	0	0%
	M62 EB to A49 NB	81	168	86	106%
M62 Junction 9	M62 EB to A49 SB	81	168	86	106%
	A49 SB to M62 EB	158	153	-5	-3%
	A49 SB	158	153	-5	-3%
	A49 SB to M62 WB	158	153	-5	-3%
	M62 WB to A49 SB	63	64	1	2%
	M62 WB to A49 NB	63	64	1	2%

2027				
Length (	metres)	Diffe	rence	
DoMin	DoSom	Actual (metres)	%	
86	102	15	18%	
86	102	15	18%	
86	102	15	18%	
25	24	-1	-2%	
25	24	-1	-2%	
25	24	-1	-2%	
122	125	3	3%	
122	125	3	3%	
122	125	3	3%	
27	28	1	5%	
27	28	1	5%	
27	28	1	5%	
152	174	22	15%	
156	178	22	14%	
172	167	-6	-3%	
78	63	-15	-19%	
35	37	1	4%	
32	33	1	2%	
98	118	20	21%	
98	118	20	21%	
98	118	20	21%	
98	118	20	21%	
80	167	87	108%	
80	167	87	108%	
157	152	-5	-3%	
157	152	-5	-3%	
157	152	-5	-3%	
72	69	-2	-3%	
72	69	-2	-3%	

2032				
Length (	metres)	Diffe	rence	
DoMin	DoSom	Actual	%	
DOIVIIII	DOSOIII	(metres)	70	
99	121	22	22%	
99	121	22	22%	
99	121	22	22%	
25	25	0	0%	
25	25	0	0%	
25	25	0	0%	
107	101	-6	-5%	
107	101	-6	-5%	
107	101	-6	-5%	
30	30	0	0%	
31	31	0	1%	
31	31	0	1%	
246	189	-57	-23%	
250	194	-57	-23%	
222	139	-83	-37%	
97	87	-10	-10%	
42	51	9	21%	
38	47	9	23%	
165	115	-50	-30%	
165	115	-50	-30%	
165	115	-50	-30%	
165	115	-50	-30%	
80	181	101	126%	
80	181	101	126%	
157	152	-5	-3%	
157	152	-5	-3%	
157	152	-5	-3%	
107	121	14	13%	
107	121	14	13%	

			20	22	
	Junction/ Movement	Length (	metres)	 Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-
A49 Winwick Road @	A49 NB to Woburn Rd	1	0	-1	-100%
Poplars Avenue	A49 NB	1	0	-1	-100%
r opidis Aveilae	A49 SB	0	8	8	-
	A49 SB to Sandy Ln West	289	292	3	1%
	A49 SB	289	292	3	1%
	A49 SB to Cromwell Ave	289	292	3	1%
	Cromwell Ave to A49 NB	96	102	5	5%
	Cromwell Ave to Sandy Ln West	96	102	5	5%
A49 Winwick Road/	Cromwell Ave to A49 SB	96	102	5	5%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	96	102	5	5%
Avenue/ Sandy Lane	A49 NB	63	67	4	6%
West	A49 NB to Sandy Ln West	63	67	4	6%
	A49 NB to Cromwell Ave	63	67	4	6%
	Sandy Ln West to A49 NB	83	293	211	255%
	Sandy Ln West to Sandy Ln (U-turn	83	293	211	255%
	Sandy Ln West to A49 SB	83	293	211	255%
	Sandy Ln West to Cromwell Ave	83	293	211	255%
	A49 NB	131	134	3	2%
A49 Winwick Road @	A49 NB to Junction NINE Retail	131	134	3	2%
Junction NINE Retail	Junction NINE Retail to A49 SB	25	27	1	5%
Park	Junction NINE Retail to A49 NB	23	24	1	6%
Falk	A49 SB	225	137	-88	-39%
	A49 SB to Junction NINE Retail	52	55	3	6%
	A49 SB to Hawleys Lane	268	250	-18	-7%
	A49 SB to Long Lane	72	20	-52	-72%
	A49 SB	301	295	-6	-2%
	A49 NB to Hawleys Lane	122	122	1	0%
A49 Winwick Road/	A49 NB to Long Lane	47	57	10	22%
Hawleys Lane/ A50	A49 NB	122	122	1	0%
Long Lane	Long Lane to A49 SB	125	192	66	53%
cong cane	Long Lane to Hawleys Lane	174	184	9	5%
	Long Lane to A49 NB	174	184	9	5%
	Hawleys Lane to Long Lane	47	51	4	7%
	Hawleys Lane to A49 SB	47	51	4	7%
	Hawleys Lane to A49 NB	34	38	3	9%

2027						
Length (metres) Difference						
DoMin	DoSom	Actual (metres)	%			
0	0	0	-			
0	0	0	-			
2	10	8	348%			
2	10	8	348%			
0	10	10	-			
228	265	37	16%			
228	265	37	16%			
228	265	37	16%			
110	123	13	11%			
110	123	13	11%			
110	123	13	11%			
110	123	13	11%			
76	76	0	0%			
76	76	0	0%			
76	76	0	0%			
88	294	206	235%			
88	294	206	235%			
88	294	206	235%			
88	294	206	235%			
125	118	-7	-6%			
125	118	-7	-6%			
25	25	1	3%			
22	23	1	3%			
134	116	-18	-14%			
49	60	11	23%			
264	256	-8	-3%			
13	0	-13	-100%			
299	294	-4	-1%			
132	213	81	61%			
60	88	28	47%			
132	213	81	61%			
141	218	77	55%			
162	209	47	29%			
162	209	47	29%			
52	43	-9	-18%			
52	43	-9	-18%			
46	40	-6	-12%			

2032						
Length (	metres)	Difference				
Dankelin	D = C =	Actual	0/			
DoMin	DoSom	(metres)	%			
0	0	0	-			
10	35	24	235%			
121	1	-120	-99%			
121	1	-120	-99%			
183	110	-72	-40%			
416	375	-41	-10%			
416	375	-41	-10%			
416	375	-41	-10%			
125	135	10	8%			
125	135	10	8%			
125	135	10	8%			
125	135	10	8%			
72	95	23	32%			
72	95	23	32%			
72	95	23	32%			
163	295	133	81%			
163	295	133	81%			
163	295	133	81%			
163	295	133	81%			
136	156	21	15%			
136	156	21	15%			
26	30	4	15%			
24	28	4	15%			
224	326	102	45%			
56	58	2	3%			
293	311	17	6%			
0	0	0	-			
319	329	9	3%			
415	507	92	22%			
264	501	237	90%			
415	507	92	22%			
143	187	44	31%			
151	178	27	18%			
151	178	27	18%			
50	61	11	23%			
50	61	11	23%			
33	40	7	21%			

#### PM MAXIMUM QUEUE LENGTH COMPARISON

	IO-1	

			2022		
	Junction/ Movement	Length (	metres)	Differ	ence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	111	113	2	2%
	A49 NB	111	113	2	2%
	A49 NB to Winwick Link Rd	111	113	2	2%
	Winwick Park Ave to A49 NB	10	18	8	74%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	10	18	8	74%
A49 Winwick Link	Winwick Park Ave to A49 SB	10	18	8	74%
Road/Winwick Park	A49 SB to Winwick Link Rd	73	84	11	15%
Avenue	A49 SB	73	84	11	15%
	A49 SB to Winwick Park Ave	73	84	11	15%
	Winwick Link Rd to A49 SB	27	27	0	-1%
	Winwick Link Rd to Winwick Park Ave	27	27	0	-1%
	Winwick Link Rd to A49 NB	27	27	0	-1%
	A49 NB	209	250	41	20%
	A49 NB to Delp Ln	213	255	41	19%
A49 Newton Road/	A49 SB	132	146	14	11%
Delph Lane	A49 SB to Delph Ln	58	79	21	35%
	Delph Ln to A49 NB	90	101	11	12%
	Delph Ln to A49 SB	86	97	11	12%
	A49 NB to M62 WB	113	110	-3	-3%
	A49 NB	113	110	-3	-3%
	A49 NB to M62 EB	113	110	-3	-3%
	A49 NB to A49 SB (U-Turn)	113	110	-3	-3%
	M62 EB to A49 NB	124	275	151	122%
M62 Junction 9	M62 EB to A49 SB	124	275	151	122%
	A49 SB to M62 EB	152	148	-4	-2%
	A49 SB	152	148	-4	-2%
	A49 SB to M62 WB	152	148	-4	-2%
	M62 WB to A49 SB	50	74	24	48%
	M62 WB to A49 NB	50	74	24	48%

2027						
Length (	metres)	Difference				
DoMin	DoSom	Actual (metres)	%			
116	121	5	4%			
116	121	5	4%			
116	121	5	4%			
10	11	1	5%			
10	11	1	5%			
10	11	1	5%			
76	83	7	9%			
76	83	7	9%			
76	83	7	9%			
27	28	1	4%			
27	28	1	4%			
27	28	1	4%			
213	284	70	33%			
216	288	73	34%			
150	163	13	9%			
73	65	-8	-10%			
110	110	0	0%			
106	106	0	0%			
106	136	30	28%			
106	136	30	28%			
106	136	30	28%			
106	136	30	28%			
138	274	136	99%			
138	274	136	99%			
161	162	0	0%			
161	162	0	0%			
161	162	0	0%			
52	78	26	49%			
52	78	26	49%			

	2032					
Length (	metres)	Difference				
DoMin	DoSom	Actual (metres)	%			
115	118	3	2%			
115	118	3	2%			
115	118	3	2%			
10	18	8	73%			
10	18	8	73%			
10	18	8	73%			
81	86	5	6%			
81	86	5	6%			
81	86	5	6%			
29	29	0	0%			
29	29	0	0%			
29	29	0	0%			
251	273	22	9%			
255	277	22	9%			
154	185	31	20%			
82	78	-5	-6%			
130	129	-1	-1%			
126	125	-1	-1%			
100	130	30	30%			
100	130	30	30%			
100	130	30	30%			
100	130	30	30%			
125	287	161	129%			
125	287	161	129%			
163	163	0	0%			
163	163	0	0%			
163	163	0	0%			
53	82	29	55%			
53	82	29	55%			

16:00-17:00

			2022					20	27			20	132	
	Junction/ Movement	Length (	metres)	Differ	rence		Length (	metres)	Differ	rence	Length (	metres)	Differ	ence
Junction	Approach	DoMin	DoSom	Actual (metres)	%		DoMin	DoSom	Actual (metres)	%	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-		0	0	0	-	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-		0	0	0	-	0	0	0	-
A49 Winwick Road @	A49 NB to Woburn Rd	6	2	-5	-75%		0	6	6	-	0	0	0	-
Poplars Avenue	A49 NB	6	2	-5	-75%		0	6	6	-	0	0	0	-
1 opiais Avenue	A49 SB	0	8	8	-	L	0	1	1	-	18	161	143	806%
	A49 SB to Sandy Ln West	297	386	89	30%		298	406	108	36%	379	444	65	17%
	A49 SB	297	386	89	30%		298	406	108	36%	379	444	65	17%
	A49 SB to Cromwell Ave	297	386	89	30%		298	406	108	36%	379	444	65	17%
	Cromwell Ave to A49 NB	102	104	2	2%		117	132	14	12%	121	122	2	1%
	Cromwell Ave to Sandy Ln West	102	104	2	2%		117	132	14	12%	121	122	2	1%
A49 Winwick Road/	Cromwell Ave to A49 SB	102	104	2	2%		117	132	14	12%	121	122	2	1%
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	102	104	2	2%		117	132	14	12%	121	122	2	1%
Avenue/ Sandy Lane	A49 NB	239	239	0	0%		235	247	11	5%	262	276	13	5%
West	A49 NB to Sandy Ln West	239	239	0	0%		235	247	11	5%	262	276	13	5%
	A49 NB to Cromwell Ave	239	239	0	0%		235	247	11	5%	262	276	13	5%
	Sandy Ln West to A49 NB	121	295	174	144%		155	295	140	91%	196	295	98	50%
	Sandy Ln West to Sandy Ln (U-turn	121	295	174	144%		155	295	140	91%	196	295	98	50%
	Sandy Ln West to A49 SB	121	295	174	144%	1 [	155	295	140	91%	196	295	98	50%
	Sandy Ln West to Cromwell Ave	121	295	174	144%	1 [	155	295	140	91%	196	295	98	50%
	A49 NB	246	242	-4	-1%	1 [	239	230	-9	-4%	257	238	-20	-8%
  A49 Winwick Road @	A49 NB to Junction NINE Retail	246	242	-4	-1%		239	230	-9	-4%	257	238	-20	-8%
Junction NINE Retail	Junction NINE Retail to A49 SB	86	119	33	38%	1 [	61	96	35	57%	51	66	15	29%
Park	Junction NINE Retail to A49 NB	83	116	33	40%		59	94	35	59%	49	64	15	30%
Park	A49 SB	344	361	17	5%	1 [	298	294	-4	-1%	225	267	42	19%
	A49 SB to Junction NINE Retail	55	60	5	9%	1 [	53	89	36	69%	81	68	-13	-16%
	A49 SB to Hawleys Lane	194	179	-14	-7%	1 [	204	192	-12	-6%	248	243	-5	-2%
	A49 SB to Long Lane	0	167	167	-	1	69	105	36	52%	58	68	10	16%
	A49 SB	340	339	-1	0%	1 [	338	339	1	0%	339	337	-2	-1%
	A49 NB to Hawleys Lane	346	438	92	27%		376	468	92	24%	463	507	45	10%
	A49 NB to Long Lane	94	200	106	113%	1 [	190	295	105	55%	238	492	254	107%
A49 Winwick Road/	A49 NB	346	438	92	27%	1	376	468	92	24%	463	507	45	10%
Hawleys Lane/ A50	Long Lane to A49 SB	98	153	55	56%	1 [	127	153	26	20%	148	154	7	4%
Long Lane	Long Lane to Hawleys Lane	135	140	5	4%	1	141	149	8	5%	148	148	0	0%
	Long Lane to A49 NB	135	140	5	4%	1 [	141	149	8	5%	148	148	0	0%
	Hawleys Lane to Long Lane	119	126	6	5%		121	125	4	3%	124	125	1	1%
	Hawleys Lane to A49 SB	119	126	6	5%	1	121	125	4	3%	124	125	1	1%
	Hawleys Lane to A49 NB	116	130	13	11%		129	130	1	1%	129	129	1	0%

		2022			
	Junction/ Movement	Length (metres) Difference			
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	98	107	9	9%
	A49 NB	98	107	9	9%
	A49 NB to Winwick Link Rd	98	107	9	9%
	Winwick Park Ave to A49 NB	12	26	14	123%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	12	26	14	123%
A49 Winwick Link	Winwick Park Ave to A49 SB	12	26	14	123%
Road/Winwick Park	A49 SB to Winwick Link Rd	75	92	17	23%
Avenue	A49 SB	75	92	17	23%
	A49 SB to Winwick Park Ave	75	92	17	23%
	Winwick Link Rd to A49 SB	197	247	49	25%
	Winwick Link Rd to Winwick Park Ave	156	72	-84	-54%
	Winwick Link Rd to A49 NB	156	72	-84	-54%
	A49 NB	189	228	39	20%
	A49 NB to Delp Ln	194	233	39	20%
A49 Newton Road/	A49 SB	335	372	37	11%
Delph Lane	A49 SB to Delph Ln	92	70	-23	-24%
	Delph Ln to A49 NB	179	185	6	3%
	Delph Ln to A49 SB	175	181	6	3%
	A49 NB to M62 WB	116	128	12	10%
	A49 NB	116	128	12	10%
	A49 NB to M62 EB	116	128	12	10%
	A49 NB to A49 SB (U-Turn)	116	128	12	10%
	M62 EB to A49 NB	108	234	126	117%
M62 Junction 9	M62 EB to A49 SB	108	234	126	117%
	A49 SB to M62 EB	172	178	6	3%
	A49 SB	172	178	6	3%
	A49 SB to M62 WB	172	178	6	3%
	M62 WB to A49 SB	88	105	17	19%
	M62 WB to A49 NB	88	105	17	19%

2027					
Length (	metres)	Difference			
DoMin	DoSom	Actual (metres)	%		
98	119	21	21%		
98	119	21	21%		
98	119	21	21%		
11	12	2	14%		
11	12	2	14%		
11	12	2	14%		
79	90	11	13%		
79	90	11	13%		
79	90	11	13%		
133	101	-32	-24%		
60	74	14	22%		
60	74	14	22%		
191	301	110	58%		
195	305	110	56%		
253	264	11	4%		
64	64	0	0%		
188	187	-1	0%		
184	183	-1	0%		
113	117	4	4%		
113	117	4	4%		
113	117	4	4%		
113	117	4	4%		
119	229	110	93%		
119	229	110	93%		
166	167	1	1%		
166	167	1	1%		
166	167	1	1%		
62	85	23	37%		
62	85	23	37%		

	2032						
Length (	metres)	Difference					
DoMin	DoSom	Actual	%				
DOMIN	DOZUM	(metres)	70				
120	152	32	27%				
120	152	32	27%				
120	152	32	27%				
13	27	14	104%				
13	27	14	104%				
13	27	14	104%				
88	106	18	20%				
88	106	18	20%				
88	106	18	20%				
183	364	181	99%				
73	175	102	141%				
73	175	102	141%				
249	279	30	12%				
254	284	30	12%				
327	440	114	35%				
65	179	113	173%				
202	187	-14	-7%				
198	183	-14	-7%				
112	130	18	16%				
112	130	18	16%				
112	130	18	16%				
112	130	18	16%				
115	256	141	122%				
115	256	141	122%				
171	174	3	2%				
171	174	3	2%				
171	174	3	2%				
64	113	49	76%				
64	113	49	76%				

			22		
Junction/ Movement	Length (	metres)	Diffe	rence	Length
Approach	DoMin	DoSom	Actual (metres)	%	DoMin
A49 SB to Birch Ave	0	0	0	-	38
Birch Rd to A49 SB	0	0	0	-	(
A49 NB to Woburn Rd	0	1	1	-	(
A49 NB	0	1	1	-	
A49 SB	459	482	22	5%	202
A49 SB to Sandy Ln West	512	512	-1	0%	489
A49 SB	512	512	-1	0%	489
A49 SB to Cromwell Ave	512	512	-1	0%	489
Cromwell Ave to A49 NB	124	123	-2	-1%	132
Cromwell Ave to Sandy Ln West	124	123	-2	-1%	133
Cromwell Ave to A49 SB	124	123	-2	-1%	13:
Cromwell Ave to Cromwell Ave (U-turn)	124	123	-2	-1%	13:
A49 NB	216	214	-2	-1%	230
A49 NB to Sandy Ln West	216	214	-2	-1%	23
A49 NB to Cromwell Ave	216	214	-2	-1%	230
Sandy Ln West to A49 NB	142	292	150	106%	179
Sandy Ln West to Sandy Ln (U-turn	142	292	150	106%	17:
Sandy Ln West to A49 SB	142	292	150	106%	179
Sandy Ln West to Cromwell Ave	142	292	150	106%	179
A49 NB	236	238	3	1%	243
A49 NB to Junction NINE Retail	236	238	3	1%	24:
Junction NINE Retail to A49 SB	101	170	69	69%	86
Junction NINE Retail to A49 NB	98	167	69	70%	84
A49 SB	452	450	-2	0%	449
A49 SB to Junction NINE Retail	92	61	-31	-34%	50
A49 SB to Hawleys Lane	250	279	29	12%	246
A49 SB to Long Lane	69	241	172	249%	70
A49 SB	343	343	0	0%	343
A49 NB to Hawleys Lane	319	414	95	30%	325
A49 NB to Long Lane	79	123	45	57%	135
A49 NB	319	414	95	30%	325
Long Lane to A49 SB	71	152	81	114%	114
Long Lane to Hawleys Lane	129	148	19	15%	14
	129	148	19	15%	143
	126	128	2	2%	126
Hawleys Lane to A49 SB	126	128	2	2%	126
Hawleys Lane to A49 NB	130	133	3	2%	133
	A49 SB to Birch Ave Birch Rd to A49 SB A49 NB to Woburn Rd A49 SB A49 SB A49 SB A49 SB to Sandy Ln West A49 SB A49 SB to Cromwell Ave Cromwell Ave to A49 NB Cromwell Ave to Sandy Ln West Cromwell Ave to Cromwell Ave (U-turn) A49 NB A49 NB to Sandy Ln West A49 NB to Cromwell Ave Sandy Ln West to A49 NB Sandy Ln West to Sandy Ln (U-turn Sandy Ln West to A49 SB A49 NB to Junction NINE Retail Junction NINE Retail to A49 NB A49 SB A49 SB to Junction NINE Retail A49 SB to Hawleys Lane A49 SB A49 NB to Hawleys Lane A49 NB Long Lane to A49 SB Long Lane to A49 SB Long Lane to A49 NB Hawleys Lane to Long Lane Hawleys Lane to A49 NB	Approach         DoMin           A49 SB to Birch Ave         0           Birch Rd to A49 SB         0           A49 NB to Woburn Rd         0           A49 NB         0           A49 SB         459           A49 SB to Sandy Ln West         512           A49 SB to Cromwell Ave         512           Cromwell Ave to A49 NB         124           Cromwell Ave to Sandy Ln West         124           Cromwell Ave to Cromwell Ave (U-turn)         124           A49 NB         216           A49 NB to Sandy Ln West         216           A49 NB to Cromwell Ave         216           Sandy Ln West to A49 NB         142           Sandy Ln West to A49 NB         142           Sandy Ln West to Sandy Ln (U-turn)         142           Sandy Ln West to Cromwell Ave         142           Sandy Ln West to A49 SB         19           A49 NB         236           A49 SB         101           Jun	Approach         DoMin         DoSom           A49 SB to Birch Ave         0         0           Birch Rd to A49 SB         0         0           A49 NB to Woburn Rd         0         1           A49 NB         0         1           A49 SB         459         482           A49 SB to Sandy Ln West         512         512           A49 SB         512         512           A49 SB to Cromwell Ave         512         512           Cromwell Ave to A49 NB         124         123           Cromwell Ave to A49 NB         124         123           Cromwell Ave to Cromwell Ave (U-turn)         124         123           A49 NB         216         214           A49 NB to Sandy Ln West         216         214           A49 NB to Sandy Ln West         216         214           A49 NB to Cromwell Ave (U-turn)         124         123           A49 NB to Cromwell Ave         216         214           A49 NB to Cromwell Ave         216         214           A49 NB to Cromwell Ave         216         214           A49 NB to Cromwell Ave         212         292           Sandy Ln West to A49 NB         142         292     <	DoMin   DoSom   Actual (metres)   DoMin   DoSom   Actual (metres)	DoMin   DoSom   Actual (metres)   Metres   Approach   DoMin   DoSom   Actual (metres)   Metres   Met

2027						
Length (metres) Difference						
DoMin	Dosom	Actual	%			
Dolylin	DoSom	(metres)	76			
38	0	-38	-100%			
0	0	0	-			
0	0	0	-			
0	0	0	-			
202	309	107	53%			
489	509	20	4%			
489	509	20	4%			
489	509	20	4%			
132	135	3	2%			
132	135	3	2%			
132	135	3	2%			
132	135	3	2%			
230	249	20	9%			
230	249	20	9%			
230	249	20	9%			
179	293	113	63%			
179	293	113	63%			
179	293	113	63%			
179	293	113	63%			
241	249	7	3%			
241	249	7	3%			
86	134	48	55%			
84	132	48	57%			
449	397	-51	-11%			
56	93	37	66%			
246	299	53	21%			
70	172	101	144%			
343	340	-3	-1%			
325	503	178	55%			
135	271	136	101%			
325	503	178	55%			
114	154	40	35%			
143	148	5	3%			
143	148	5	3%			
126	127	1	1%			
126	127	1	1%			
133	133	1	0%			

	20	32	
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual	%
DOIVIIII	DOSOIII	(metres)	70
0	0	0	-
0	0	0	-
0	12	12	-
0	12	12	-
406	472	66	16%
511	512	0	0%
511	512	0	0%
511	512	0	0%
132	131	-1	-1%
132	131	-1	-1%
132	131	-1	-1%
132	131	-1	-1%
264	271	7	3%
264	271	7	3%
264	271	7	3%
228	293	64	28%
228	293	64	28%
228	293	64	28%
228	293	64	28%
268	256	-12	-4%
268	256	-12	-4%
81	100	19	23%
79	97	19	24%
473	446	-27	-6%
58	69	11	19%
327	328	1	0%
68	137	70	103%
341	341	0	0%
459	509	51	11%
233	502	269	115%
459	509	51	11%
146	155	9	6%
146	151	5	3%
146	151	5	3%
128	131	3	3%
128	131	3	3%
134	137	4	3%

			20	22	
	Junction/ Movement	Length (	metres)	Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
	A49 NB to Winwick Park Ave	85	97	13	15%
	A49 NB	85	97	13	15%
	A49 NB to Winwick Link Rd	85	97	13	15%
	Winwick Park Ave to A49 NB	12	25	13	103%
A49 Newton Road/	Winwick Park Ave to Winwick Link Rd	12	25	13	103%
A49 Winwick Link	Winwick Park Ave to A49 SB	12	25	13	103%
Road/Winwick Park	A49 SB to Winwick Link Rd	68	98	29	43%
Avenue	A49 SB	68	98	29	43%
	A49 SB to Winwick Park Ave	68	98	29	43%
	Winwick Link Rd to A49 SB	269	265	-4	-1%
	Winwick Link Rd to Winwick Park Ave	169	123	-47	-27%
	Winwick Link Rd to A49 NB	169	123	-47	-27%
	A49 NB	120	145	25	21%
	A49 NB to Delp Ln	124	150	25	20%
A49 Newton Road/	A49 SB	353	405	51	15%
Delph Lane	A49 SB to Delph Ln	87	162	75	86%
	Delph Ln to A49 NB	84	107	23	27%
	Delph Ln to A49 SB	80	103	23	28%
	A49 NB to M62 WB	82	81	0	0%
	A49 NB	82	81	0	0%
	A49 NB to M62 EB	82	81	0	0%
	A49 NB to A49 SB (U-Turn)	82	81	0	0%
	M62 EB to A49 NB	77	185	107	139%
M62 Junction 9	M62 EB to A49 SB	77	185	107	139%
	A49 SB to M62 EB	170	170	0	0%
	A49 SB	170	170	0	0%
	A49 SB to M62 WB	170	170	0	0%
	M62 WB to A49 SB	79	88	10	12%
	M62 WB to A49 NB	79	88	10	12%

	20	27	
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual (metres)	%
75	84	8	11%
75	84	8	11%
75	84	8	11%
11	13	2	18%
11	13	2	18%
11	13	2	18%
77	86	9	11%
77	86	9	11%
77	86	9	11%
165	135	-30	-18%
124	71	-53	-43%
124	71	-53	-43%
154	152	-2	-1%
159	157	-2	-1%
232	236	4	2%
106	137	31	29%
144	152	9	6%
140	148	9	6%
81	99	18	22%
81	99	18	22%
81	99	18	22%
81	99	18	22%
87	177	90	104%
87	177	90	104%
159	159	0	0%
159	159	0	0%
159	159	0	0%
55	61	6	11%
55	61	6	11%

	20	32	
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual	٥
DOMIN	DOZOUI	(metres)	%
81	160	79	98%
81	160	79	98%
81	160	79	98%
11	23	12	103%
11	23	12	103%
11	23	12	103%
77	113	35	46%
77	113	35	46%
77	113	35	46%
178	375	197	110%
121	272	151	125%
121	272	151	125%
155	244	89	58%
160	249	89	56%
309	440	131	42%
124	292	167	135%
179	182	3	2%
175	178	з	2%
99	128	29	29%
99	128	29	29%
99	128	29	29%
99	128	29	29%
88	255	166	188%
88	255	166	188%
166	169	3	2%
166	169	3	2%
166	169	3	2%
57	87	31	54%
57	87	31	54%

			20	22	
	Junction/ Movement	Length (	metres)	 Differ	rence
Junction	Approach	DoMin	DoSom	Actual (metres)	%
A49 Winwick Rd/	A49 SB to Birch Ave	0	0	0	-
Birch Ave	Birch Rd to A49 SB	0	0	0	-
449 Winwick Road @	A49 NB to Woburn Rd	0	0	0	-
Poplars Avenue	A49 NB	0	0	0	-
ropials Aveilue	A49 SB	450	452	2	0%
	A49 SB to Sandy Ln West	512	510	-3	09
	A49 SB	512	510	-3	09
	A49 SB to Cromwell Ave	512	510	-3	09
	Cromwell Ave to A49 NB	117	107	-10	-89
	Cromwell Ave to Sandy Ln West	117	107	-10	-89
A49 Winwick Road/	Cromwell Ave to A49 SB	117	107	-10	-89
A574 Cromwell	Cromwell Ave to Cromwell Ave (U-turn)	117	107	-10	-89
Avenue/ Sandy Lane	A49 NB	106	101	-6	-59
West	A49 NB to Sandy Ln West	106	101	-6	-59
	A49 NB to Cromwell Ave	106	101	-6	-59
	Sandy Ln West to A49 NB	82	269	187	2299
	Sandy Ln West to Sandy Ln (U-turn	82	269	187	2299
	Sandy Ln West to A49 SB	82	269	187	2299
	Sandy Ln West to Cromwell Ave	82	269	187	2299
	A49 NB	180	188	8	49
uan uurii ila naadan	A49 NB to Junction NINE Retail	180	188	8	49
A49 Winwick Road @	Junction NINE Retail to A49 SB	55	140	85	1539
Junction NINE Retail	Junction NINE Retail to A49 NB	53	138	85	1609
Park	A49 SB	403	416	13	39
	A49 SB to Junction NINE Retail	85	54	-30	-36%
	A49 SB to Hawleys Lane	216	221	5	29
	A49 SB to Long Lane	35	239	204	589%
	A49 SB	337	339	2	19
	A49 NB to Hawleys Lane	155	176	21	139
AAO Waller - De - De	A49 NB to Long Lane	74	82	8	119
A49 Winwick Road/	A49 NB	155	176	21	139
Hawleys Lane/ A50	Long Lane to A49 SB	67	138	71	1069
Long Lane -	Long Lane to Hawleys Lane	100	123	23	23%
	Long Lane to A49 NB	100	123	23	239
	Hawleys Lane to Long Lane	111	115	5	49
	Hawleys Lane to A49 SB	111	115	5	4%
	Hawleys Lane to A49 NB	109	113	4	3%

2027										
Length (metres) Difference										
DoMin	DoSom	Actual	%							
DOMIN	DOZOUI	(metres)	70							
0	0	0	-							
0	0	0	-							
0	3	3	-							
0	3	3	-							
185	329	144	77%							
464	510	46	10%							
464	510	46	10%							
464	510	46	10%							
129	133	4	3%							
129	133	4	3%							
129	133	4	3%							
129	133	4	3%							
130	126	-5	-4%							
130	126	-5	-4%							
130	126	-5	-4%							
99	292	194	196%							
99	292	194	196%							
99	292	194	196%							
99	292	194	196%							
183	189	6	3%							
183	189	6	3%							
35	58	22	64%							
33	55	22	68%							
444	362	-82	-18%							
53	62	9	17%							
158	236	78	49%							
69	102	34	49%							
338	338	0	0%							
196	231	35	18%							
83	134	51	61%							
196	231	35	18%							
68	152	84	124%							
101	122	21	21%							
101	122	21	21%							
115	124	9	8%							
115	124	9	8%							
122	132	11	9%							

	20	32	
Length (	metres)	Diffe	rence
DoMin	DoSom	Actual	%
DOIMILLI	DOZOUI	(metres)	70
0	0	0	-
0	0	0	-
0	102	102	-
0	102	102	-
341	440	99	29%
509	509	0	0%
509	509	0	0%
509	509	0	0%
132	132	0	0%
132	132	0	0%
132	132	0	0%
132	132	0	0%
130	189	59	45%
130	189	59	45%
130	189	59	45%
135	292	158	117%
135	292	158	117%
135	292	158	117%
135	292	158	117%
205	244	39	19%
205	244	39	19%
36	50	15	41%
33	48	15	44%
460	275	-185	-40%
55	61	6	11%
275	171	-104	-38%
26	34	8	31%
339	331	-8	-3%
208	358	151	73%
108	215	106	98%
208	358	151	73%
109	153	44	40%
126	139	13	10%
126	139	13	10%
124	127	3	3%
124	127	3	3%
130	133	3	2%

## **APPENDIX D:**

**JOURNEY TIME DATA** 

## AM Journey Time (s) - 07:00-08:00

	AM 2022					AM 2027				AM 2032			
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	
1 NB	68	72	4	6%	78	80	2	3%	82	85	2	3%	
2 NB	98	100	2	2%	104	104	1	1%	103	100	-3	-3%	
3 NB	80	82	2	3%	81	82	1	1%	81	85	5	6%	
4 NB	81	83	2	3%	80	83	3	4%	88	89	1	1%	
5 NB	86	88	2	2%	91	94	4	4%	99	104	5	5%	
	413	425	12.15	3%	433	443	10.19	2%	453	463	9.45	2%	

		AM 202	22		AM 2027				AM 2032			
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1SB	62	67	5	8%	61	62	1	2%	60	56	-4	-7%
2SB	92	96	5	5%	96	96	1	1%	96	95	-1	-1%
38B	145	142	-3	-2%	135	132	-2	-2%	136	132	-4	-3%
4 SB	106	106	0	0%	117	116	-1	-1%	132	138	7	5%
5 S B	61	62	1	1%	62	63	0	1%	63	65	1	2%
	466	473	7.67	2%	470	469	-0.97	0%	488	486	-1.81	0%

## PM Journey Time (s) - 16:00-17:00

	PM 2022					PM 2027				PM 2032			
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	
1 NB	57	58	1	2%	61	63	2	3%	63	63	0	1%	
2 NB	116	118	1	1%	117	121	4	4%	121	123	2	2%	
3 NB	84	86	2	2%	84	87	3	4%	84	87	2	3%	
4 NB	104	105	1	1%	106	108	2	2%	113	116	2	2%	
5 NB	100	114	14	14%	99	116	17	17%	111	142	30	27%	
	461	481	19.32	4%	467	495	27.89	6%	492	530	37.63	8%	

	PM 2022					PM 2027				PM 2032			
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	
1SB	55	56	1	1%	56	56	0	1%	56	57	1	1%	
2SB	84	85	2	2%	87	90	3	3%	88	93	6	7%	
38B	140	155	14	10%	134	149	15	11%	149	170	21	14%	
4 SB	224	209	-15	-7%	197	194	-3	-1%	177	181	5	3%	
5 S B	61	62	1	2%	62	62	1	2%	62	63	1	2%	
	564	568	3.6	1%	536	552	16.32	3%	532	564	32.55	6%	

## AM Journey Time (s) - 08:00-09:00

		AM 20	22	AM 2027				AM 2032				
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1 NB	80	91	11	13%	97	98	1	1%	101	113	12	11%
2 NB	104	109	5	5%	116	116	0	0%	119	128	9	7%
3 NB	84	86	2	2%	91	92	1	1%	127	105	-22	-17%
4 NB	96	98	ß	3%	102	103	1	1%	103	104	1	1%
5 NB	89	93	4	4%	120	121	1	0%	173	250	77	45%
	452	476	24.32	5%	527	530	3.53	1%	623	700	76.87	12%

		AM 20	22	AM 2027				AM 2032				
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1SB	73	79	5	7%	70	71	0	0%	67	59	-8	-12%
2SB	103	105	1	1%	104	104	0	0%	108	114	6	5%
38B	179	181	2	1%	151	151	0	0%	206	189	-17	-8%
4 SB	140	130	-11	-8%	160	160	0	0%	208	198	-10	-5%
5 S B	63	65	2	3%	65	65	0	0%	65	66	1	2%
	559	559	-0.27	0%	550	551	0.99	0%	654	626	-28.03	-4%

## PM Journey Time (s) - 17:00-18:00

	PM 2022				PM 2027				PM 2032				
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	
1 NB	57	59	2	3%	63	63	0	0%	70	70	0	0%	
2 NB	115	115	0	0%	118	118	0	0%	132	132	0	0%	
3 NB	85	87	3	3%	87	87	0	0%	89	89	0	0%	
4 NB	102	102	0	0%	108	109	0	0%	112	113	1	1%	
5 NB	90	105	15	16%	129	130	0	0%	209	209	0	0%	
	448	468	19.45	4%	506	507	1.34	0%	612	613	1.39	0%	

		PM 20	PM 2027				PM 2032					
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1SB	55	60	5	8%	57	57	0	0%	70	70	0	0%
2SB	157	183	27	17%	116	117	1	1%	221	223	2	1%
38B	341	313	-28	-8%	249	250	1	0%	285	286	1	0%
4 SB	316	315	-1	0%	273	274	1	0%	269	269	1	0%
5 S B	62	62	0	0%	64	64	0	0%	64	65	0	0%
	932	934	2.35	0%	759	762	2.48	0%	909	912	3.23	0%

### AM Journey Time (s) - 09:00-09:30

	_													
		AM 20		AM 2027	7		AM 2032							
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%		
1 NB	69	74	5	7%	76	77	1	1%	77	83	6	8%		
2 NB	97	103	5	6%	106	106	1	1%	112	102	-11	-9%		
3 NB	80	84	3	4%	89	89	0	0%	127	89	-37	-29%		
4 NB	108	110	2	2%	84	84	1	1%	106	109	3	3%		
5 NB	84	83	-1	-1%	93	94	1	1%	131	234	103	78%		
	439	453	14.32	3%	447	451	3 1 9	1%	553	617	64.08	12%		

	AM 2022				AM 2027				AM 2032			
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1SB	66	79	13	20%	65	65	0	0%	61	57	-4	-7%
2SB	98	101	4	4%	99	99	1	1%	104	95	-9	-9%
38B	144	156	12	9%	137	137	0	0%	220	180	-40	-18%
4 SB	171	146	-25	-15%	124	124	0	0%	175	202	27	15%
5 S B	63	64	1	2%	66	66	0	0%	63	66	3	4%
	541	546	5.21	1%	490	491	1.57	0%	623	600	-23.8	-4%

## PM Journey Time (s) - 18:00-18:30

		PM 20	PM 2027				PM 2032					
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%
1 NB	53	60	6	12%	59	59	0	0%	75	75	0	0%
2 NB	109	113	4	4%	113	113	0	0%	142	143	1	1%
3 NB	82	84	2	2%	86	87	0	0%	131	131	0	0%
4 NB	94	95	0	0%	95	96	1	1%	118	119	1	1%
5 NB	82	84	2	2%	91	91	1	1%	106	106	0	0%
	421	436	14.5	3%	444	446	1.87	0%	572	574	2.02	0%

		PM 2022				PM 2027				PM 2032				
Section	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%	Do Min	Do Som	Diff	%		
1SB	58	67	9	16%	56	56	0	0%	80	81	0	0%		
2SB	204	196	-7	-3%	128	129	1	1%	235	236	1	0%		
3SB	381	323	-58	-15%	290	290	-1	0%	277	277	0	0%		
4 SB	275	288	13	5%	243	244	0	0%	212	212	0	0%		
5 SB	63	62	-1	-1%	64	64	0	0%	65	65	0	0%		
	980	937	-42.86	-4%	781	781	0.45	0%	870	871	1.38	0%		

# **APPENDIX E:**

**MITIGATION DESIGNS** 

